

PIONEER DJ ALPHATHETA CDJ-3000 SERVICE MANUAL



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AlphaTheta

Service Manual



CDJ-3000

ORDER NO.
RRV4701

MULTI PLAYER

CDJ-3000 CDJ-3000-W

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

Model	Type	Power Requirement	Remarks
CDJ-3000	LSYXJ	AC 110 V to 240 V	
CDJ-3000	AXJ	AC 220 V	
CDJ-3000	UXJCB	AC 120 V	
CDJ-3000-W	AXJ	AC 220 V	
CDJ-3000-W	UXJCB	AC 120 V	
CDJ-3000-W	PXJ	AC 110 V to 240 V	

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

Model	Order No.	Remarks
CDJ-3000, CDJ-3000-W	RRV4702	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.

Caution

Since the fuse may be neutral of the mains supply, disconnect the mains to de-energize the phase conductors.

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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 REPLACING

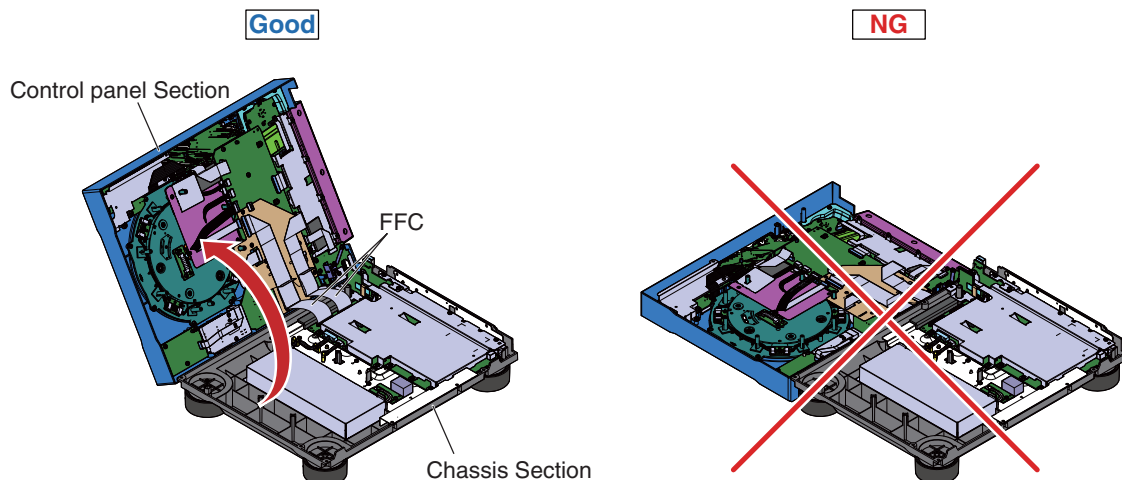
The part listed below is difficult to replace as a discrete component part.
When the part listed in the table is defective, replace whole Assy.

Assy Name	Parts that is Difficult to Replace			
	Ref No.	Function	Part No.	Remarks
MAIN Assy	IC1001, IC1003	DC/DC CONVERTER	BD9328EFJ	IC with heat-pad
	IC1201	DC/DC CONVERTER	TPS53515RVE	IC with heat-pad
	IC1401	PMIC	BD9571MWF	IC with heat-pad
	IC1801	MAIN CPU	R8A774A0HC01BG@V	BGA
	IC2401, IC2601	LPDDR4	K4F8E3S4HB-MFCJ	BGA
	IC2802	eMMC	THGBMJG6C1LBAU7@V	BGA
	IC3001	DC/DC CONVERTER	MM3543BH	IC with heat-pad
	IC3602	USB-B HUB	RTS5412E-GR	IC with heat-pad
	IC3802	USB-LAN	RTL8153B-VB-CG	IC with heat-pad
	IC4001	LAN-HUB	RTL8367SB-CG	IC with heat-pad
	Q1401, Q1402	FET	IPG20N04S4L-08	Transistor with heat-pad
LCDB Assy	IC6001	LCD POWER IC	R1290K103A	IC with heat-pad
	IC6004	LCD BACKLIGHT DRIVER	IS31BL3555-ZLS4	IC with heat-pad
PNLA Assy	IC7203	RGB LED CONTROLLER	IS31FL3236AQFLS2	IC with heat-pad

1.3 SERVICE NOTICE

■ Caution of the removal of the Control panel Section

The two FFCs that connect between the Control panel section and the Chassis section are short in length. Therefore, they cannot be opened 180 degrees with the FFCs still connected. Be careful not to damage the FFC or the connector when removing the Control panel section or diagnosing it.



A ■ About the Flash (IC2802) and USB-LAN Conversion IC (IC3802) in the MAIN Assy

Replacement of the Flash (IC2802) and USB-LAN Conversion IC (IC3802) in the MAIN Assy is not possible during service, because writing of the MAC address on the production line is required and USB-LAN Conversion IC (IC3802) has unique ID. Therefore, the Flash (IC2802) and USB-LAN Conversion IC (IC3802) are not supplied as a service part.

If the Flash (IC2802) and USB-LAN Conversion IC (IC3802) are defective, replace the whole MAIN Assy.

After replacing the the MAIN Assy, writing of the serial number of the unit is required.

For details on how to write the serial number, see "8.3 WRITING THE SERIAL NUMBER OF THE UNIT."

■ About the Fan motor

This product has Fan motor.

- B This fan is controlled with the three thermometers in MAIN CPU (IC1801), which automatically switch the rotation speed (Off/Low/High).

If the thermometer doesn't detect a very high temperature, Fan doesn't start to rotate.

Fan's rotating status can be checked in Service mode.

Use the above information in addition to "THERMOMETER CHECK PAGE" information of Service mode when replacing Fan or making a diagnosis.

- When repairing the product, always remove Cover of the bottom to check and clean with air blow, etc. the vents for dust. If it is heavily dusty, remove Fan motor and Stay, and clean it.

■ About Jog dial rotation load adjustment

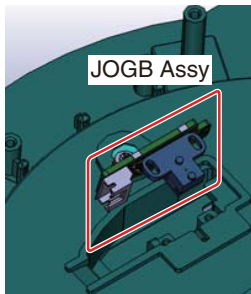
- C When performing the Jog dial rotation load adjustment, you must remove Jog dial section from Control panel section to operate Adjust plate.

After removing it, connect PNLB Assy and JOGB Assy with 4P extension cable before performing the adjustment.

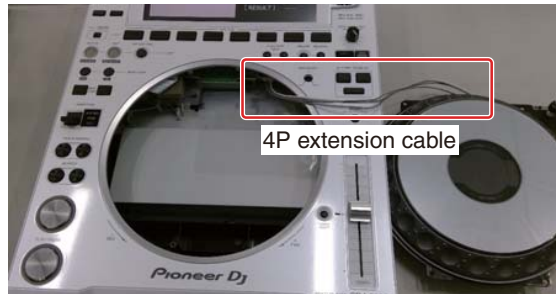
Remove JOGB Assy from Jog dial section and replace it with 4P extension cable and reinstall it.

After the adjustment is complete, remove JOGB Assy and reinstall it using the cables that were used before disassembly.

After Jog dial section is installed and the product is reassembled, the Jog dial rotation load measurement is performed again to confirm that there are no problems.



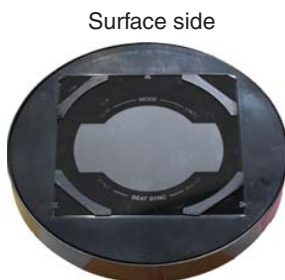
Bottom view



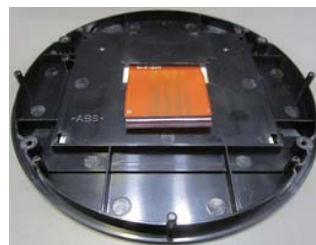
4P extension cable

■ About the replacement of the jog LCD

- E As shown in the figure below, the cover and the jog LCD are fixed with double-sided tape.



Surface side



Back side

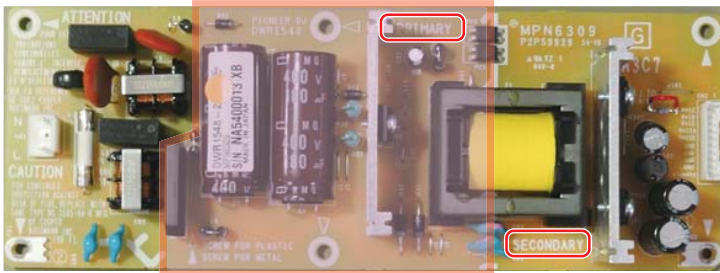


- F If you remove the parts from the double-sided tape, the parts will be deformed. So when replacing the parts, do not reuse them. Replace the parts at the Assy unit of the service.

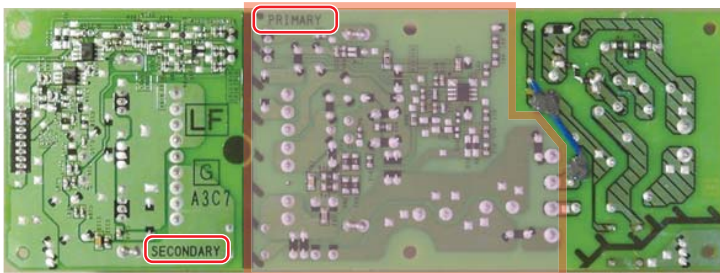
■ SW POWER SUPPLY Primary side electrical shock

The primary side of SW POWER SUPPLY remains voltage long time, and the primary solder side can be seen. So if you touch the primary solder side, it is possible to receive an electrical shock. There is the red area below where we tend to receive an electrical shock. Be sure to discharge the voltage of primary side to avoid receiving the electrical shock.

Electrical shock area of A-side.

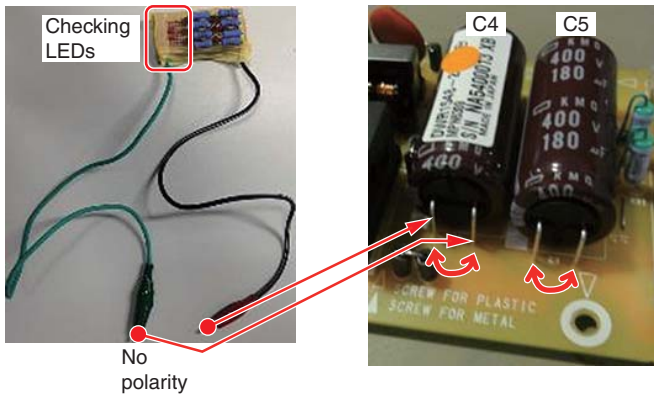


Electrical shock area of B-side.



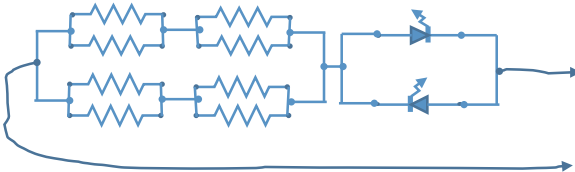
When discharging the above point, use the following discharge jig as needed.

While the charging voltage is left of both C4 and C5, either of checking LEDs turns on. And if **both of LED turns off**, we can avoid receiving the electrical shock!!



The circuit of "discharge JIG" is shown below.

- Resister is all 10 kΩ (3W)
- Both of LED is LTL17KRH5D



When there is no above type LED, take measures the following method.

- Step 1: After the power is turned off, wait 2 minutes.
- Step 2: Connect the Register Jig and leave the unit as it is, for 10 seconds.

2. SPECIFICATIONS

- A Power requirements AC 110 V to 240 V, 50 Hz/60 Hz
Power consumption 40 W
Main unit weight 5.5 kg (12.1 lbs)
Max. external dimensions 329 mm (W) × 453 mm (D) × 118 mm (H)
Tolerable operating temperature +5 °C to +35 °C
Tolerable operating humidity 5 % to 85 % (no condensation)

Analog audio output (AUDIO OUT L/R)

- Output terminals RCA terminal
Output Level 2.0 Vrms (1 kHz)
Frequency response 4 Hz to 40 kHz
S/N ratio 115 dB
Total harmonic distortion 0.0018 %

B Digital audio output (DIGITAL OUT)

- Output terminals RCA terminal
Output type Coaxial digital (S/PDIF)
Output level 0.5 Vp-p (75 Ω)
Output format 96 kHz, 24 bit

USB downstream section (USB)

- Port Type A
Power supply 5 V/1 A or less

USB upstream section (USB)

- Port Type B

C LAN (PRO DJ LINK)

- Rating 1000BASE-T

SD memory card section

- File system Conforming to SD standards
Max. memory capacity 32 GB

Main display

- Screen size 9 inch

- The specifications and design of this product are subject to change without notice.

Accessories

- Power cord
(AXJ: DDG1125)
(LSYXJ: DDG1124)
(UXJCB: DDG1123)
(PXJ: DDG1124)
- Analog audio cable
(XDE3045)
- Digital audio cable
(DDE1154)
- LAN cable
(DDE1141)
- Quick Start Guide
(DRH1530)
- Precautions for use (Warranty)
(CDJ-3000/LSYXJ: DRH1534)
(CDJ-3000/AXJ, CDJ-3000-W/AXJ: DRH1535)
(CDJ-3000/UXJCB: DRH1534)
(CDJ-3000-W/UXJCB: DRH1611)
(CDJ-3000-W/PXJ: DRH1611)
- Warranty (for some regions) *

* Only products in Europe.
Products in North America and Japan include warranty information in the "Precautions for Use".

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.	Procedure	Check points
1	Confirm the firmware version in Service Mode.	The version of the firmware must be latest. Update firmware to the latest one, if it is not the latest.
2	Confirm whether the customer complain has been solved.	The customer complain must not be reappeared. Audio and operations must be normal.
3	Check the connection of each interface.	
	Playback data contained in the device connected to USB A.	Audio, Search and operations must be normal.
	USB B.	The PC must be linked (in USB 2.0 and USB3.x respectively).
	Playback data contained in an SD card.	Audio, Search and operations must be normal.
	Confirm the connection with CDJ player and the PC by LAN.	This product is recognized definitely by CDJ player, and LINK be established. This product is recognized to a PC definitely, and LINK be established in rekordbox. (Check that it is connected at 1 Gbps in the PC network properties.)
4	Check output signals while the Jog dial or TEMPO slider is being operated.	Audio and operations must be normal.
5	Check the keys on the unit.	Check whether a product can be operated properly by buttons on the product.
6	Check the LCD display.	Check that there is no dirt or dust trapped inside the LCD display.
7	Check the Touch panel.	Check whether a product can be operated properly in a confirmation screen of the touch panel of the Service mode.
8	Check the fan motor ventilation oral region.	Take the cover of the bottom; clean with the dirt check of the ventilation oral region.
9	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

3.2 JIGS LIST

A ■ Jigs List

Jig Name	Part No.	Purpose of use / Remarks
USB cable (USB2.0)	GGP1193	For PC connection
USB cable (USB3.x)	Marketed product (USB3.0 certified product)	For PC connection / For USB3.x device check 0.5 to 1.5 m length recommended
4P extension cable	GGP1542	4P extension cable for Confirmation of the specified value by Jog dial rotation
Disc force eject pin	DEX1024	For gear of Jog dial positionings
Software for writing the serial number	GGG1917	For writing the serial number of the unit to the MAIN Assy

B

■ Lubricants and Glues List



Name	Part No.	Remarks
Lubricating oil (FLOIL PN-397B)	GYA1001	Used for "9.6 JOG DIAL SECTION". Refer to "7. DISASSEMBLY".
Lubricating oil (FLOIL FG-80H)	GEM1104	Used for "9.3 CONTROL PANEL (1/2) SECTION", "9.6 JOG DIAL SECTION". Refer to "7. DISASSEMBLY".
Lubricating oil (Dry Surf HFD1600)	GEM1038	Used for "9.6 JOG DIAL SECTION". Refer to "7. DISASSEMBLY".
Bond (BOND KE40RTV)	GYA1011	Used for "9.2 CHASSIS SECTION". Refer to "7. DISASSEMBLY".
Acetate tape	GYH1035	Used for "9.2 CHASSIS SECTION". Refer to "7. DISASSEMBLY".

D ■ Cleaning



Before shipping out the product, be sure to clean the following positions is extremely dirty by using the prescribed cleaning tools.

Position to be cleaned	Name	Part No.	Remarks
Fan	Cleaning liquid	GEM1004	Used for "9.2 CHASSIS SECTION". Refer to "7. DISASSEMBLY".
	Cleaning paper	GED-008	

E

F

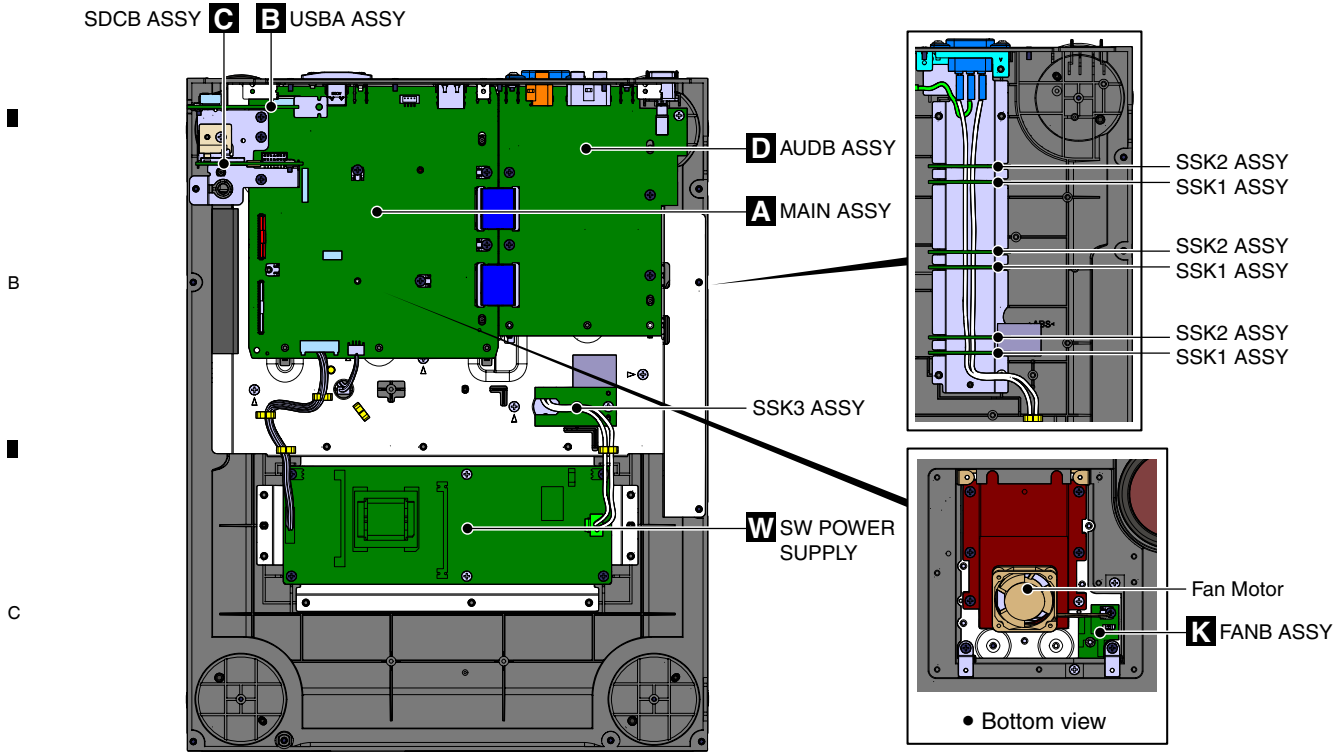
CDJ-3000 Service check sheet

Check contents	Check target	Operation part, Setting	Display part (LED)	Display part (LCD)	Status	Check
Each version display	Firmware etc.			Main CPU System Version App Revision Kernel Revision Sub CPU Panel Version MAC ADDRESS MAIN USB-LAN DESTINATION SERIAL No.		<input type="checkbox"/> Ver. _____ <input type="checkbox"/> Ver. _____ <input type="checkbox"/> Ver. _____ <input type="checkbox"/> Ver. _____ ----- ----- ----- -----
LED, LCD check	All light on All light off	[TRACK FILTER], [SHORT CUT] [PLAY]	All LED (Full-color, Monochromatic) All LED Stand by LED	LCD: Color pattern, JOG LCD: White LCD, JOG LCD	Press → White → Red → Green → Blue Mode switch → All LED lights off, LCD and JOG LCD are displayed Black screen. Press → light on (during)	<input type="checkbox"/> <input type="checkbox"/>
Elements check	Button Lever	Button (self-lighting) Direction Lever	lights on in initial state, and lights off when button is pressed.	A button name pressing down is displayed by "CURRENT VALUE". A status is displayed by "CURRENT VALUE".	Press → Self-lighting LED lights off, and "RESULT" count up. All buttons are completed normally → [OK] is displayed by "RESULT". Depending on a status [FWD], [REVERSE], [SLIP REVERSE] is displayed.] All statuses are detected. → [OK] is displayed by "RESULT".	<input type="checkbox"/> RESULT [OK] <input type="checkbox"/> RESULT [OK]
	SD card switch	SD card switch		A status is displayed by "CURRENT VALUE".	Either of [OPEN], [CLOSE] is displayed depending on a status. Both statuses are detected. → [OK] is displayed by "RESULT".	<input type="checkbox"/> RESULT [OK]
	Analog elements	Encoder		A present value is displayed by "CURRENT VALUE".	Numerical value is displayed depending on the position of the Encoder. The position of both ends is detected. → [OK] is displayed by "RESULT".	<input type="checkbox"/> RESULT [OK]
		TEMPO slider		A present value is displayed by "CURRENT VALUE".	Numerical value is displayed depending on the position of the Slider. The position of both ends is detected. → [OK] is displayed by "RESULT".	<input type="checkbox"/> RESULT [OK]
		VINYL SPEED ADJ knob		A present value is displayed by "CURRENT VALUE".	Numerical value is displayed depending on the position of the Knob. The position of both ends is detected. → [OK] is displayed by "RESULT".	<input type="checkbox"/> RESULT [OK]
	Jog dial	JOG TOUCH SW JOG ROTATION	Forward rotation: White Reverse rotation: Red	A status is displayed by "CURRENT VALUE". A status is displayed by "CURRENT VALUE".	"ON" is displayed while you touch Jog dial. The rotation direction of Jog is displayed.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Touch panel check	Touch panel			A quadrangle is displayed in the four corners.	When you touch a quadrangle, the quadrangle turn it blue. When all the quadrangles are touched, "OK" is displayed.	<input type="checkbox"/> [OK]
Fan operation check	Fan motor	[HOT CUE A] [HOT CUE B] [HOT CUE C]		A current rotary status is displayed by "STATUS".	Press → Fan rotates slowly. Press → Fan rotates fast. Press → Fan rotation become stop.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Thermometer check	Built-in thermometer	[PLAY]		The measurements of the thermometer of AREA 0, 1, 2 are displayed.	Press → It measures temperature and judge [OK]/[NG].	<input type="checkbox"/> [OK] <input type="checkbox"/> [NG]
Auto standby test	Auto standby	[TEMPO]			Press → Auto standby mode Products usually return it by either operation. (There is exception operation)	<input type="checkbox"/> <input type="checkbox"/>

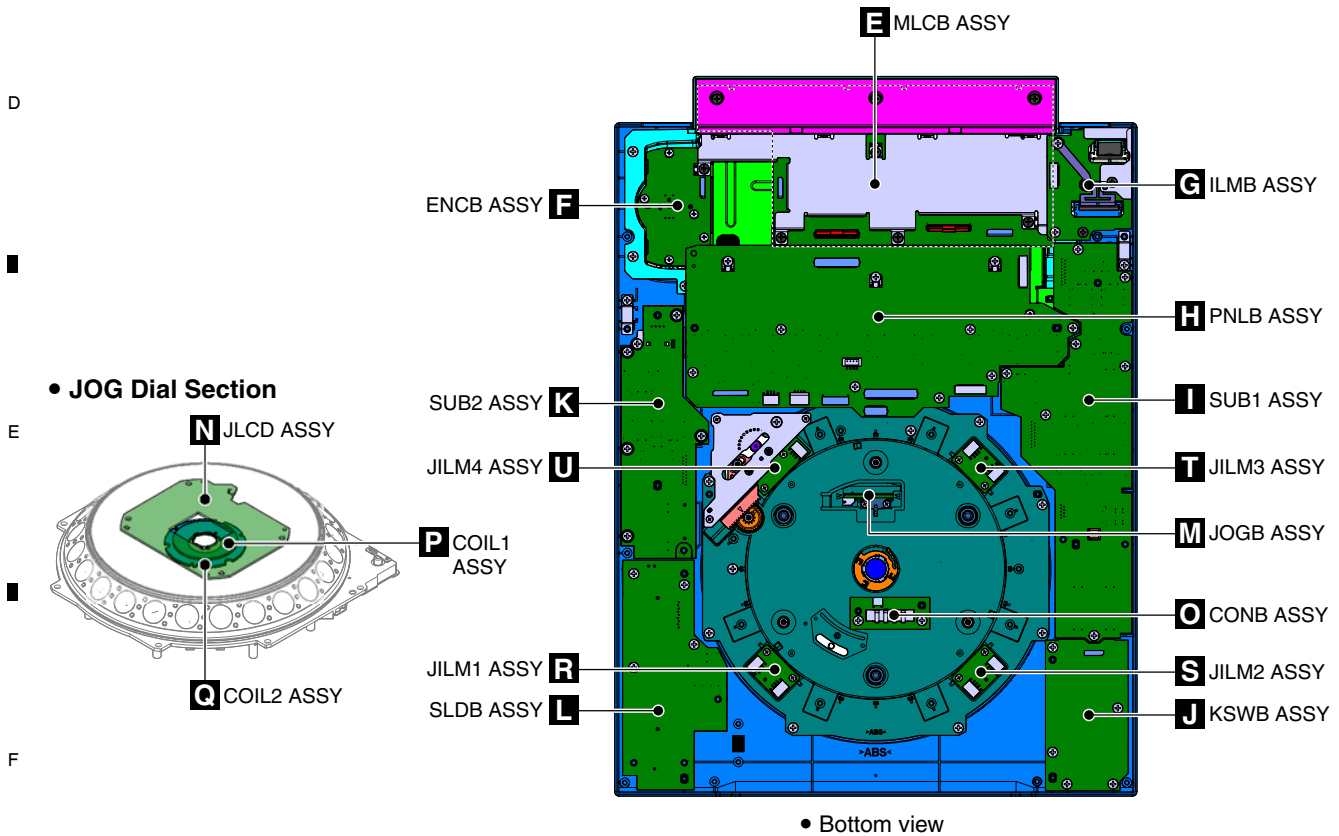
Service Mode

3.3 PCB LOCATIONS

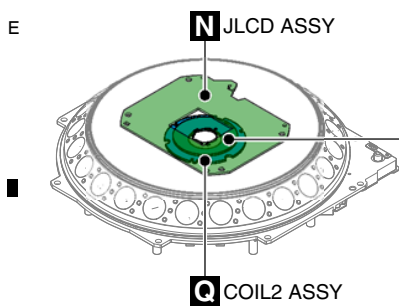
A • Chassis Section



• Control Panel Section



• JOG Dial Section



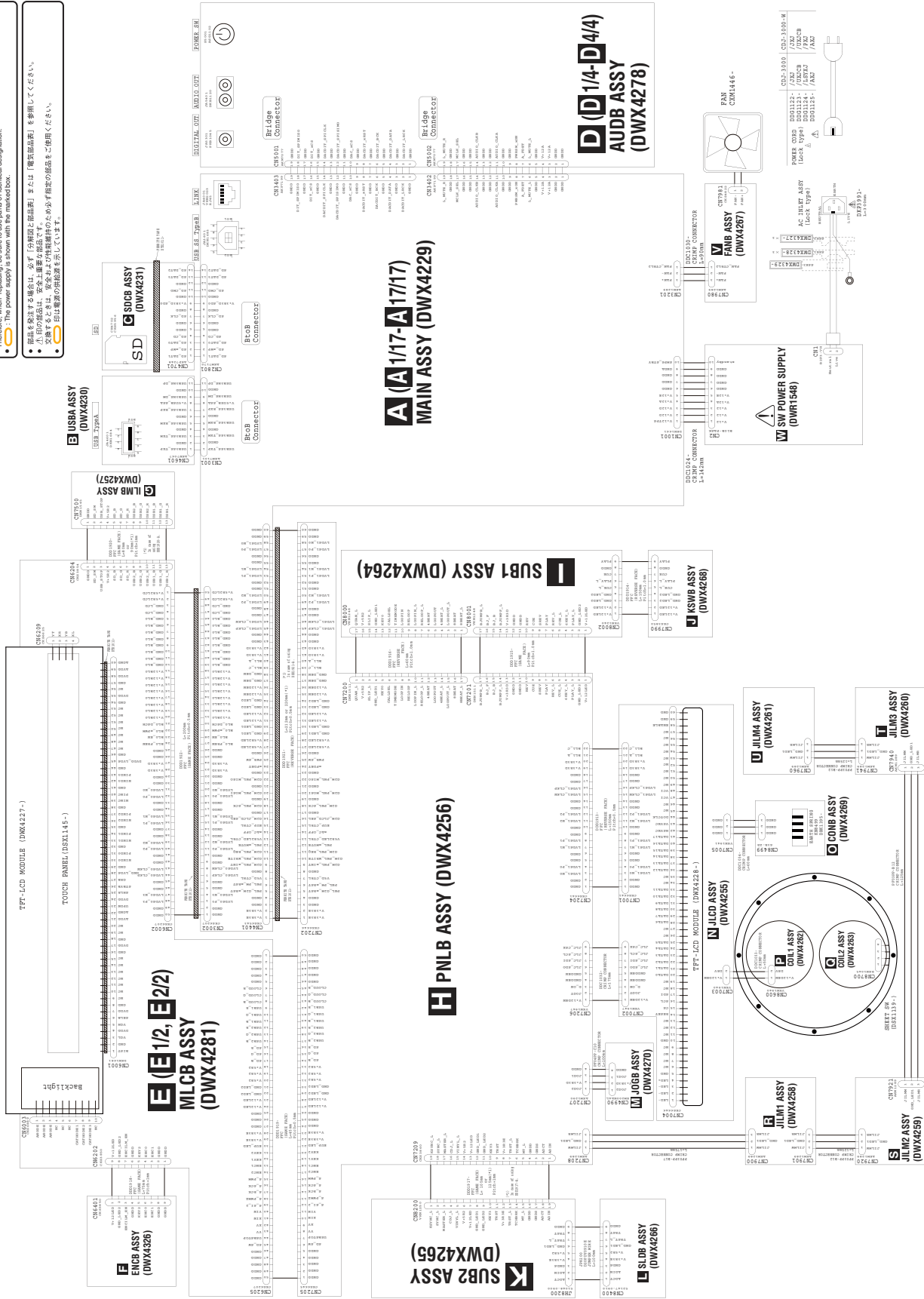
NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 ● The ⚠ mark found on some component parts indicates the importance of the safety factor of the part.
 Therefore, when replacing, be sure to use parts of identical designation.

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
LIST OF ASSEMBLIES							
		1..MAIN ASSY	DWX4229	NSP	1..COIL ASSY		DWM2711
					2..COIL1 ASSY		DWX4262
NSP	1..DIFB ASSY		DWM2705		2..COIL2 ASSY		DWX4263
	2..USBA ASSY		DWX4230		2..JOGB ASSY		DWX4270
	2..SDCB ASSY		DWX4231				
	1..AUDB ASSY		DWX4278	NSP	1..SUBA ASSY		DWM2712
					2..SUB1 ASSY		DWX4264
					2..SUB2 ASSY		DWX4265
NSP	1..MLCD ASSY		DWM2728		2..SLDB ASSY		DWX4266
	2..MLCB ASSY		DWX4281		2..CONB ASSY		DWX4269
	2..ENCB ASSY		DWX4326				
					2..SSK1 ASSY		DWX4327
NSP	1..PNLA ASSY		DWM2710		2..SSK2 ASSY		DWX4328
	2..JLCD ASSY		DWX4255		2..SSK3 ASSY		DWX4329
	2..PNLB ASSY		DWX4256				
	2..ILMB ASSY		DWX4257	⚠	1..SW POWER SUPPLY		DWR1548
	2..JILM1 ASSY		DWX4258				
	2..JILM2 ASSY		DWX4259				
	2..JILM3 ASSY		DWX4260				
	2..JILM4 ASSY		DWX4261				
	2..FANB ASSY		DWX4267				
	2..KSWB ASSY		DWX4268				

4. BLOCK DIAGRAM

4.1 OVERALL WIRING DIAGRAM

4. BLOCK DIAGRAM



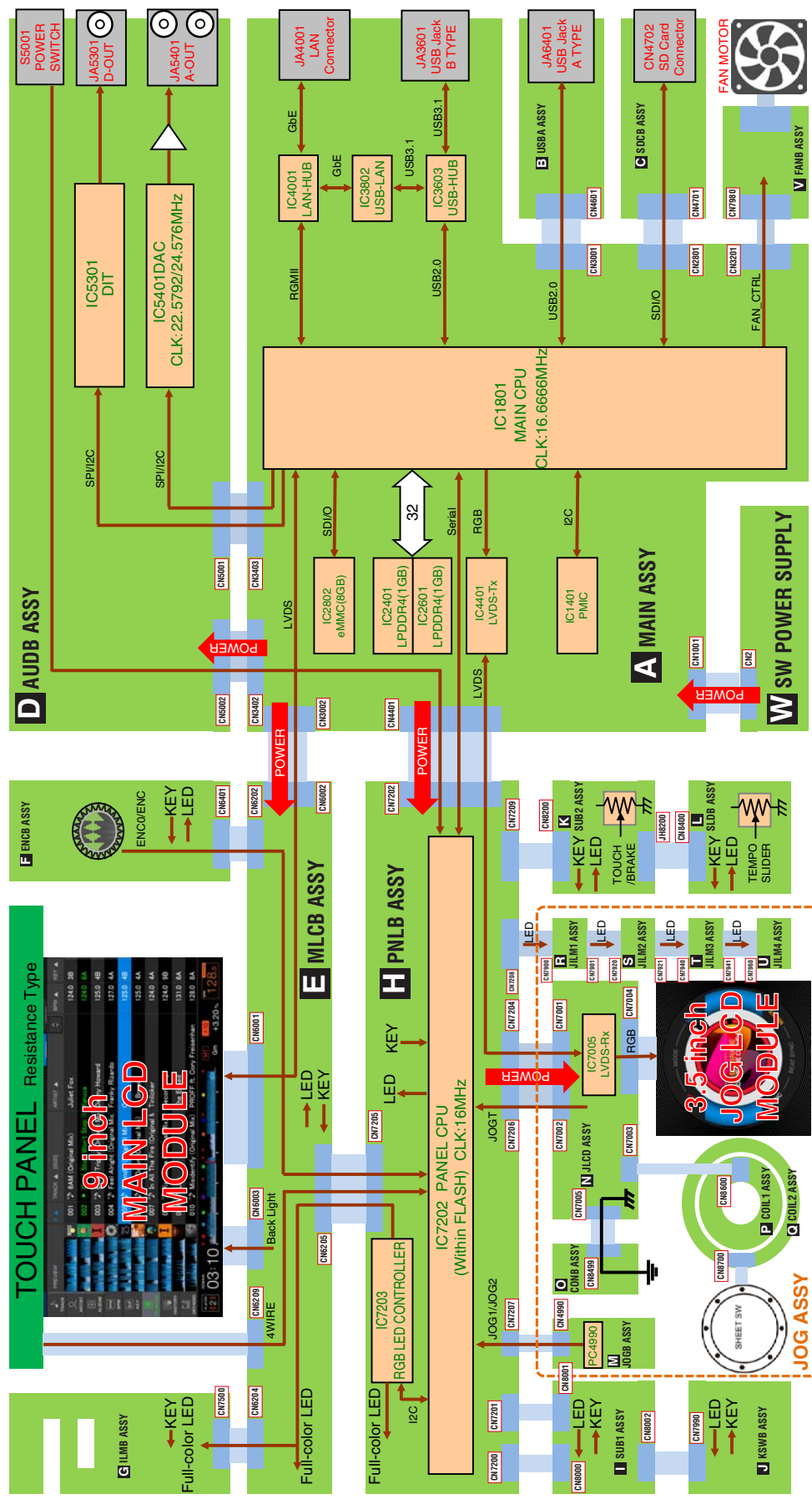
When replacing parts, be sure to refer to "EXPOSURE PARTS LIST" or "TOP PARTS LIST". The (A) mark on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

- The power supply is shown with the method box.
- Parts marked with a triangle (▲) are safety-related components. Please refer to the "SAFETY PRECAUTIONS" section of the manual for details.
- Parts marked with a square (■) are safety-related components. Please refer to the "SAFETY PRECAUTIONS" section of the manual for details.
- Parts marked with a circle (○) are safety-related components. Please refer to the "SAFETY PRECAUTIONS" section of the manual for details.

A
B
C
D
E
F

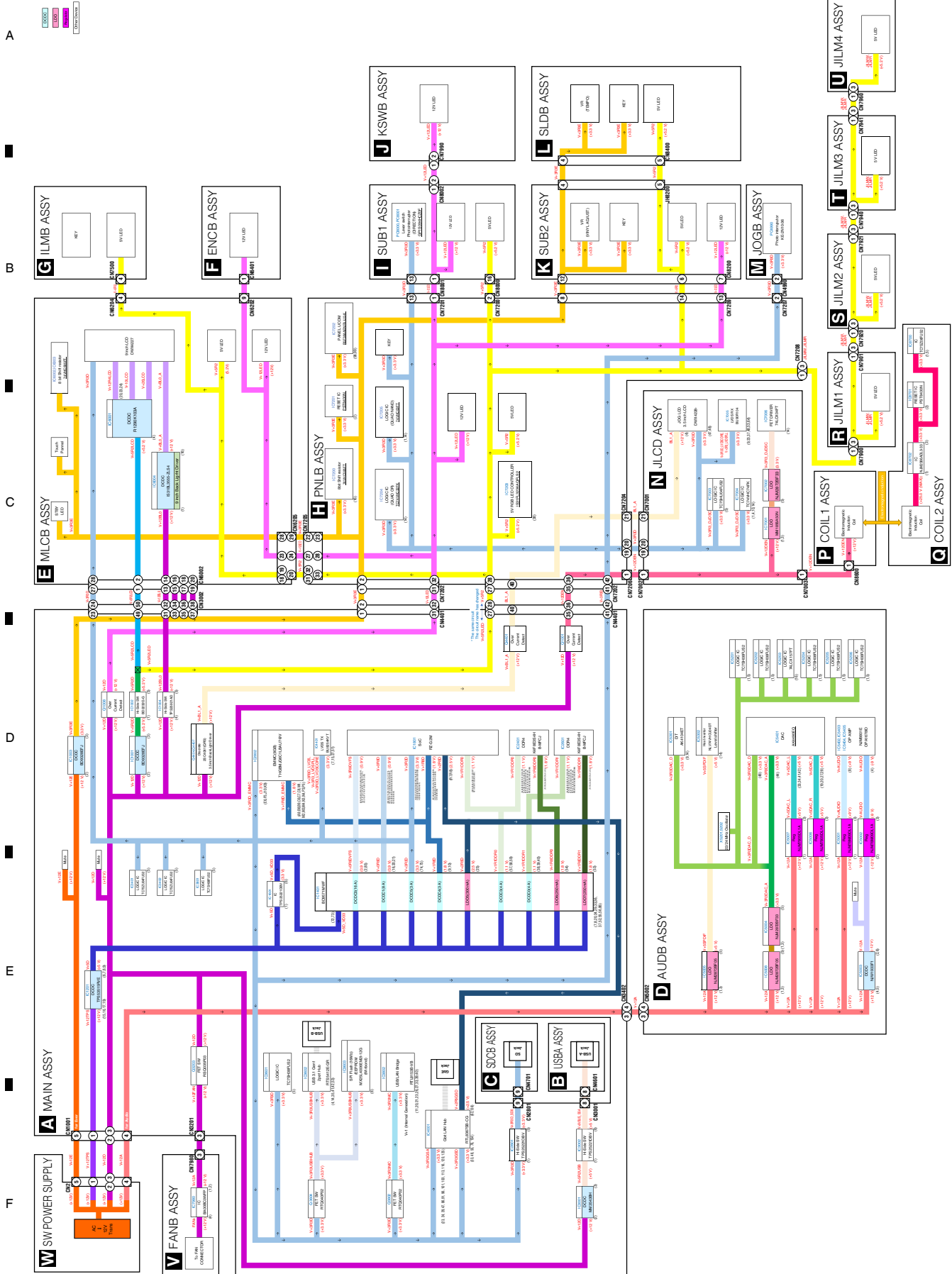
1
2
3
4
1
2
3
4

4.2 SIGNAL ROUTE BLOCK DIAGRAM



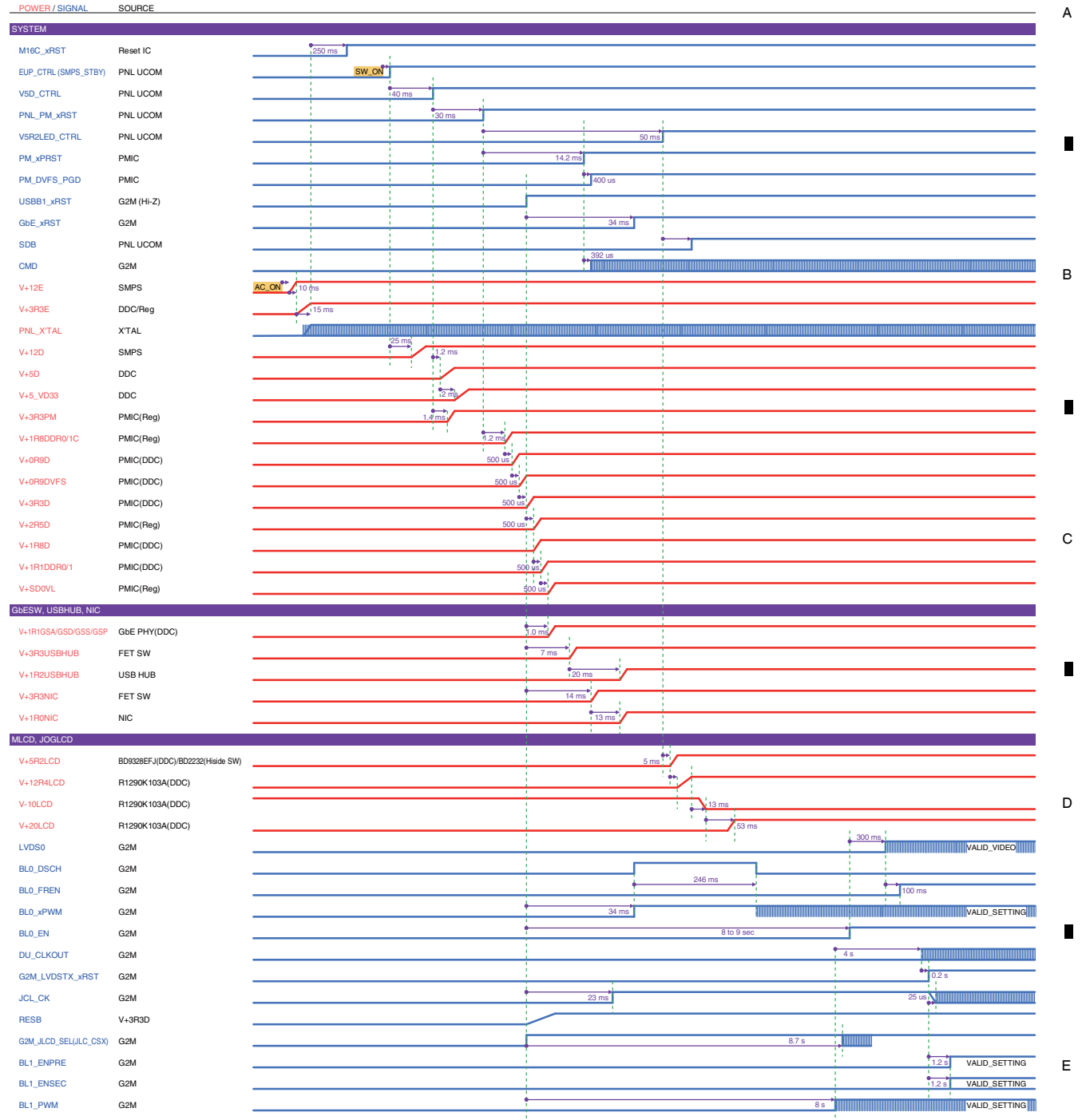
CDJ-3000

4.3 POWER BLOCK DIAGRAM



5. DIAGNOSIS

5.1 POWER ON SEQUENCE



5.2 TROUBLESHOOTING

A Contents

- [1] Startup
 - [1-1] No startup (Only the SOURCE indicator keeps blinking)
 - [1-2] No startup (All LEDs and LCD light off including the SOURCE indicator)
- [2] LCD display
 - [2-1] Main LCD does not turn on or the display is abnormal
 - [2-2] Jog LCD does not turn on or the display is abnormal
- [3] LED indication
 - [3-1] Monochromatic LED does not turn on
 - [3-2] Full-color LED does not turn on
- [4] Operation
 - [4-1] The rotary encoder is not working
 - [4-2] The button is not working
 - [4-3] TEMPO slider is not working
 - [4-4] TOUCH/BRAKE volume is not working
 - [4-5] The touch panel is not working
 - [4-6] The Jog rotation is not detected
 - [4-7] The Jog touch is not detected
 - [4-8] Turning the jog makes a strange noise
 - [4-9] Turning the jog is light
 - [4-10] Turning the jog is heavy
 - [4-11] The switching of the Jog touch from ON to OFF is slow
- [5] Sound output
 - [5-1] There is no sound from the analog output jack
 - [5-2] There is no sound from the digital output jack
- [6] Interface
 - [6-1] It does not recognize the USB flash drive (USB-A)
 - [6-2] It does not recognize the SD card
 - [6-3] It does not be recognized the PC (USB-B), or it does not be recognized from the PC
 - [6-4] It does not be recognized from the PC (LAN)
- [7] EUP
 - [7-1] It cannot switch to the EUP mode
 - [7-2] It does not return from the EUP mode
- [8] Power supply monitoring
 - [8-1] Power supply monitoring

C [1] Startup

[1-1] No startup (Only the SOURCE indicator keeps blinking)

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Power supply malfunction is detected	Each Assy	The power supply malfunction has been detected, and it is in a shutdown state. Confirm the each circuit in "5.4 VOLTAGE MONITORING CIRCUIT" ※ This state is kept until IC7202 (PANEL CPU) is reset.	Search for defective power circuits, repair the defective soldering and replace parts if found. If the parts that are difficult to replace are defective, the relevant Assy must be replaced.	5.4 VOLTAGE MONITORING CIRCUIT

D [1-2] No startup (All LEDs and LCD light off including the SOURCE indicator)

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	SW POWER SUPPLY has defect	SW POWER SUPPLY	Confirm that pin 5 of CN2 on SW POWER SUPPLY is 12 V while the power cord is plugged in.	If not confirmed, replace SW POWER SUPPLY.	—
2	Power supply circuit have defect	MAIN Assy	Confirm that there is the signal of V+3R3E (PANEL CPU Power) while the power cord is plugged in.	If not confirmed, confirm the peripheral circuit of IC1003 (DC/DC CONVERTER) and repair the defective soldering if found. If not confirmed, replace MAIN Assy.	—
3	Power switch have defect	AUDB Assy	Confirm the circuit between S5001 (Power switch) on AUDB Assy and IC7202 (PANEL CPU) on PNLB Assy.	Repair defective soldering and connection if found. If the signal does not change from H to L when Power switch is turned from OFF to ON, replace the switch.	—
4	PANEL CPU or peripheral circuit have defect	PNLB Assy	Confirm that the signal of pin 35 (EUP_CTRL) of IC7202 (PANEL CPU) on PNLB Assy changes to H when Power switch is turned to ON.	Confirm the peripheral circuit of IC7202 (PANEL CPU), and repair defective soldering if found. If not found, replace IC7202 (PANEL CPU).	—
5	SW POWER SUPPLY or Power control circuit have defect	SW POWER SUPPLY	Confirm that pin 1 and 2 (V+12TPS, V+12D) of CN2 on SW POWER SUPPLY is 12 V when Power switch is turned to ON.	If pin 10 (STBY) of CN2 is 0 V, replace SW POWER SUPPLY. If it is about 10 to 12 V, confirm the circuit between pin 35 (EUP_CTRL) of IC7202 (PANEL CPU) and pin 10 (EUP_CTRL) of CN2.	—
6	Power supply circuit for MAIN CPU has defect	MAIN Assy	Refer to "4.3 POWER BLOCK DIAGRAM" to confirm that the voltages of IC1201 (V+5D) and IC1401 (PMIC) are normal. ※ The voltage is designed approximately as the circuit name. (e.g. V+3R3* → 3.3 V)	Confirm the peripheral circuit of IC1201 (V+5D) and IC1401 (PMIC), and repair defective soldering if found. If not found, replace MAIN Assy.	4.3 POWER BLOCK DIAGRAM
7	The other power supply circuits have defect	Each Assy	Refer to the "4.3 POWER BLOCK DIAGRAM" to confirm that Power supply circuits except the above are normal.	Search for defective power circuits, repair the defective soldering and replace parts if found.	4.3 POWER BLOCK DIAGRAM

[2] LCD display

[2-1] Main LCD does not turn on or the display is abnormal

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Back light circuit have defect	MLCB Assy	Confirm that pin 1 (BLO_A) of CN6003 is about 30 V.	If not confirmed, confirm the peripheral circuit of IC6004 (LCD BACKLIGHT DRIVER) and repair the defective soldering if found. If not confirmed, replace MLCB Assy.	—
2	TFT power supply circuit have defect	MLCB Assy	Confirm that the voltage of V+20LCD, V+12R4LCD, and V-10LCD of IC6001 (LCD POWER IC) are normal. ※ The voltage is designed approximately as the circuit name. (e.g. V+3R3*→3.3 V)	If not confirmed, confirm the peripheral circuit of IC6001 (LCD POWER IC) and repair the defective soldering if found. If not confirmed, replace MLCB Assy.	—
3	Power supply circuit from MAIN Assy have defect	MLCB Assy	Confirm that the voltage of pin 4 (V+3R3LCD) of CN6001 is normal. ※ The voltage is designed approximately as the circuit name. (e.g. V+3R3*→3.3 V)	If not confirmed, confirm V+3R3D circuit from MAIN Assy and repair the defective soldering and replace parts if found.	—
4	MAIN CPU has defect	MAIN Assy	Confirm that the waveform of LVDS circuits of CN3002 (pin 3, 4, 7, 8, 11, 12, 15, 16, 19 and 20) are normal.	If not confirmed, confirm the peripheral circuit of IC1801 (MAIN CPU) and repair the defective soldering and replace parts if found. If not confirmed, replace MAIN Assy.	10.45 WAVEFORMS ①
5	LVDS circuit from MAIN Assy have defect	MLCB Assy	Confirm that the waveform of LVDS circuits of CN6001 (pin 30, 31, 33, 34, 36, 37, 39, 40, 42 and 43) are normal. ※ The same waveform as in "10.45 WAVEFORMS ①" is displayed.	If not confirmed, confirm LVDS circuit from MAIN Assy and repair the defective soldering and replace parts if found.	10.45 WAVEFORMS ①
6	Main LCD module has defect	Main LCD module	The problem has not improved until the above.	Replace Main LCD module.	—

[2-2] Jog LCD does not turn on or the display is abnormal

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Back light circuit have defect	MAIN Assy	Confirm that the voltage of the emitter of Q4407 is normal. ※ The normal value is 0.1 V to 1.3 V.	If not confirmed, confirm the peripheral circuit of Q4402, Q4403, Q4404, Q4406, Q4407 and Q4408 and repair the defective soldering and replace parts if found.	—
2	Power supply circuit from MAIN Assy have defect	JLCD Assy	Confirm that the voltage of pin 47 (V+3R3D) on CN7004 is normal. ※ The voltage is designed approximately as the circuit name. (e.g. V+3R3*→3.3 V)	If not confirmed, confirm V+3R3D circuit from MAIN Assy and repair the defective soldering and replace parts if found.	—
3	MAIN CPU has defect	MAIN Assy	Confirm that the waveforms of the input circuit (DU_CLKOUT, DU_DR*, DU_DG*, DU_DB*) of IC4401 (LVDS Tx) is normal.	If not confirmed, confirm the peripheral circuit of IC1801 (MAIN CPU) and repair the defective soldering and replace parts if found. If not confirmed, replace MAIN Assy.	10.45 WAVEFORMS ②
4	LVDS circuit from MAIN Assy have defect	JLCD Assy	Confirm that the waveforms of the input circuit (JCL_CK, JLC_R*, JLC_G*, JLC_B*) of IC7005 (LVDS Rx) is normal. ※ The same waveform as in "10.45 WAVEFORMS ②" is displayed.	If not confirmed, confirm the peripheral circuit of IC1801 (MAIN CPU) and repair the defective soldering and replace parts if found. If not confirmed, replace MAIN Assy.	10.45 WAVEFORMS ②
5	Jog LCD module has defect	Jog LCD module	The problem has not improved until the above.	Replace Jog LCD module.	—

[3] LED indication

Note: The point where Monochromatic LED, full-color LED are applied to refer to "6. SERVICE MODE_Mode 2/10 LED ALL ON, LCD CHECK".

[3-1] Monochromatic LED does not turn on

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Defective soldering	Each Assy	Confirm the soldering status of each LED.	Repair the defective soldering if found.	—
2	Defective LED	Each Assy	Confirm that the forward voltage of the LED is about 2 V to 3 V.	If not confirmed, replace LED.	—
3	Lighting circuit have defect	Each Assy	Confirm that the control signals that output from IC7202 (PANEL CPU) or IC7200/IC6002/IC6003 (Shift register) are normal.	If the signal is normal and the LED does not light on, replace the drive transistor.	—
4	PANEL CPU has defect	PNLB Assy	Confirm that the control signals output normal.	If not confirmed, replace IC7202 (PANEL CPU) or IC7200/IC6002/IC6003 (Shift register).	—

A [3-2] Full-color LED does not turn on

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Defective soldering	Each Assy	Confirm the soldering status of each LED. And, confirm the peripheral circuit of IC7203 (RGB LED CONTROLLER).	Repair the defective soldering if found.	—
2	LED has defect	Each Assy	Confirm that the forward voltage of the LED is about 2 V to 3 V.	If not confirmed, replace LED.	—
3	PANEL CPU has defect	PNLB Assy	Confirm that the control signal (SDA, SCL) that output from IC7202 (PANEL CPU) to IC7203 (RGB LED CONTROLLER) is normal.	If not confirmed, replace IC7202 (PANEL CPU).	10.45 WAVEFORMS Ⓐ
4	LED Driver IC has defect	PNLB Assy	Confirm that the control signal that output from IC7203 (RGB LED CONTROLLER) to each LED is normal.	If not confirmed, replace PNLB Assy.	—

B

[4] Operation

[4-1] The rotary encoder is not working

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Rotary Encoder circuit have defect	ENCB Assy	Confirm the circuit of ENC0, ENC1 and KEY2.	Repair the defective soldering and the defective connection if found.	—
2	Rotary Encoder has defect	ENCB Assy	Operate S6405 (Rotary Encoder) and confirm that the following changes occur. 1. Turning it reverses the polarity of ENC0 and ENC1 2. Pushing it changes the signal level of KEY2	If not confirmed, replace S6405 (Rotary Encoder).	10.45 WAVEFORMS Ⓑ
3	PANEL CPU has defect	PNLB Assy	The problem has not improved until the above.	If not confirmed, replace IC7202 (PANEL CPU).	—

C

[4-2] The button is not working

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Button has defect	Each button	Confirm that the appropriate button presses the appropriate switch.	If the switch is not pressed, replace the button.	—
2	SW POWER SUPPLY has defect	SW POWER SUPPLY	Confirm that pin 5 (ever power output) of CN2 on SW POWER SUPPLY is 12 V while the power cord is plugged in.	If not confirmed, replace SW POWER SUPPLY.	—
3	Power supply circuit have defect	MAIN Assy	Confirm that the voltage of V+3R3E (PANEL CPU Power) is normal while the power cord is plugged in.	If not confirmed, confirm the peripheral circuit of IC1003 (DC/DC CONVERTER) and repair the defective soldering if found. If not confirmed, replace MAIN Assy.	—
4	Reset circuit have defect	PNLB Assy	Confirm that pin 1 of IC7201 (Reset IC) on PNLB Assy is H while the power cord is plugged in.	If not confirmed, confirm the peripheral circuit of IC7201 and repair the defective soldering if found. If not confirmed, replace IC7201.	—
5	CLK signal of PANEL CPU have defect	PNLB Assy	Confirm that CLK signal of PANEL CPU is normal. (Pin 13 of IC8001 = 16 MHz)	If not confirmed, confirm X7200 or the associated circuits and repair the defective soldering if found. If not confirmed, replace X7200.	10.45 WAVEFORMS Ⓒ
6	Switch circuit have defect	Each Assy	Confirm the circuit from each switch to IC7202 (PANEL CPU).	Repair defective solder, defective connections, and the peeled patterns if found.	—
7	Switch has defect	Each Assy	Confirm that the signal goes from H to L when the switch is pressed.	If not confirmed, replace each switch.	—
8	PANEL CPU has defect	PNLB Assy	The problem has not improved until the above.	Replace IC7202 (PANEL CPU).	—

D

E

F

[4-3] TEMPO slider is not working

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Poor adjustment	SLDB Assy	Confirm that ADCT value is normal (about 1.65 V).	If not normal, refer to "8.5 TEMPO ZERO POINT ADJUSTMENT" to adjust TEMPO slider.	8.5 TEMPO ZERO POINT ADJUSTMENT
2	TEMPO slider circuit have defect	SLDB Assy	Confirm ADIN circuit from VR8400 (TEMPO slider) to IC7202 (PANEL CPU).	Repair defective solder, defective connections, and the peeled patterns if found.	—
3	TEMPO slider has defect	SLDB Assy	Operate TEMPO slider and confirm that the voltage of the ADIN signal change from 0 V to 3.3 V.	If not confirmed, replace VR8400 (TEMPO slider).	—
4	PANEL CPU has defect	PNLB Assy	The problem has not improved until the above.	Replace IC7202 (PANEL CPU).	—

[4-4] TOUCH/BRAKE volume is not working

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Volume circuit have defect	SUB2 Assy	Confirm TCHBRK circuit from VR8200 (TOUCH/BRAKE) to IC7202 (PANEL CPU).	Repair defective solder, defective connections, and the peeled patterns if found.	—
2	Volume has defect	SUB2 Assy	Operate Volume and confirm that the voltage of the TCHBRK signal change from 0 V to 3.3 V.	If not confirmed, replace VR8200 (TOUCH/BRAKE).	—
3	PANEL CPU has defect	PNLB Assy	The problem has not improved until the above.	Replace IC7202 (PANEL CPU).	—

[4-5] The touch panel is not working

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Poor calibration	—	Confirm that you cannot touch the desired point due to misalignment.	If it is out of alignment, perform the calibration again.	—
2	It has defective connectors and so on	MLCB Assy	Confirm the circuit between CN6209 (Touch panel connector) and CN6205 (connect to PANEL CPU).	Repair defective solder and defective connections if found.	—
3	The touch panel circuit have defect	PNLB Assy	Confirm XIN and YIN circuits from CN7205 (Touch panel signal connector) to IC7202 (PANEL CPU).	Repair defective solder and defective connections if found.	—
4	The touch panel have defect	PNLB Assy	Confirm that the voltage of XIN and of YIN change from 0 V to 3.3 V when you touch the touch screen.	If not confirmed, replace the touch panel.	10.45 WAVEFORMS ③
5	PANEL CPU has defect	PNLB Assy	The problem has not improved until the above.	Replace IC7202 (PANEL CPU).	—

[4-6] The Jog rotation is not detected

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Encoder plate has defect	—	Confirm that Encoder plate is properly installed and that Encoder plate is not dirty or damaged.	Install the Encoder plate correctly. Replace the plate if it is dirty or damaged.	—
2	Photo-interrupter has defect	Photo-interrupter	Confirm that Photo-interrupter is properly installed into the Encoder plate.	Install the Photo-interrupter correctly.	—
3	Photo-interrupter circuit have defect	JOGB Assy	Confirm JOG1 and JOG2 circuits from PC4990 (Photo-interrupter) to IC7202 (PANEL CPU).	Repair defective solder and defective connections if found.	—
4	Photo-interrupter has defect	JOGB Assy	Confirm that JOG1 and JOG2 signals continue to flip L or H at 90 degrees different phases when the jog is rotated.	If not confirmed, replace PC4990 (Photo-interrupter).	10.45 WAVEFORMS ④
5	PANEL CPU has defect	PNLB Assy	The problem has not improved until the above.	Replace IC7202 (PANEL CPU).	—

A **[4-7] The Jog touch is not detected**

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Power supply circuit have defect	MAIN Assy	Confirm that V+12DEN is output.	If not confirmed, search for defective power circuits, repair the defective soldering and replace parts if found.	—
2	JOGT circuit have defect	PNLB Assy	Confirm that the signal is input to pin 2 (JOGT) of CN7206 when the jog is touched.	If confirmed, confirm that the signal reaches the panel microcomputer. If not confirmed, confirm the signal circuit. If the signal is reaching the pins of PANEL CPU but the touch operation cannot be detected, replace PANEL CPU. If not confirmed, disassemble Jog Assy and move on to the internal checking.	—
3	The sensor has defect	Sensor (Sheet switch)	Confirm that Sensor is properly installed and that Sensor is not dirty, damaged or contaminated with water.	Install Sensor correctly. Replace Sensor if it has dirt, damage, or moisture in it.	—
4	COIL2 has defect	COIL2 Assy	Confirm the circuit from Sensor to COIL2 Assy, and confirm that there is no defective soldering on the parts of COIL2 Assy.	Repair defective solder and defective connections if found.	—
5	COIL drive circuit have defect	JLCD Assy	Confirm the peripheral circuits of COIL1 Assy and JLCD Assy.	<ul style="list-style-type: none"> - Repair the connection between COIL1 Assy and JLCD Assy if there are connection defects. - Repair the defective soldering on JLCD Assy, if found. - If pin 5 of IC7002 (LDO) is not 3.3 V, replace IC7002. - If pin 4 of IC7003 (LOGIC) is not 8 MHz, replace X7001 (Resonator) or IC7003. - If pin 8 of IC7004 (LOGIC) is not 2 MHz, replace IC7004. - If the gate of Q7003 (FET) is not 2 MHz, replace IC7006 (LOGIC). - If pin 2 of CN7003 is not Half-wave waveform of 2 MHz, replace Q7003 (FET). 	10.45 WAVEFORMS ④
6	JLCD has defect	JLCD Assy	Confirm that the voltage of pin 2 (JOG_SW) of CN7002 change the following state. 1. It changes to about 0.5 V when you stop touching Jog 2. It changes to about 1.5 V when you touch Jog	If not confirmed, replace the parts in the order of JLCD Assy, COIL2 Assy and COIL1 Assy.	—

D **[4-8] Turning the jog makes a strange noise**

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Jog brake has defect	JOG section	Confirm that the brake (DED1189) is not peeling.	Wipe Jog dial (DNK6777) clean with ethanol. Replace Brake.	—
2	Jog roller has defect	JOG section	Confirm that there are no foreign materials on Roller (DXB2178) or that Roller (DXB2178) is not deformed.	Remove foreign materials or replace Roller.	—

E **[4-9] Turning the jog is light**

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Jog adjustment or Jog assembly is incorrect	JOG section	Refer to "8.4 JOG DIAL ROTATION LOAD ADJUSTMENT" to confirm that the jog load value is within the specification.	<ul style="list-style-type: none"> - If it is out of specification, refer to "8.4 JOG DIAL ROTATION LOAD ADJUSTMENT" for calibration. Wipe and reassemble Jog dial (DNK6777) as necessary. - Apply grease to the shaft if it is low in grease. 	8.4 JOG DIAL ROTATION LOAD ADJUSTMENT

F **[4-10] Turning the jog is heavy**

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Poor Jog adjustment	JOG section	Refer to "8.4 JOG DIAL ROTATION LOAD ADJUSTMENT" to confirm that the jog load value is within the specification.	If it is out of specification, refer to "8.4 JOG DIAL ROTATION LOAD ADJUSTMENT" for calibration. Wipe and reassemble Jog dial (DNK6777) as necessary.	8.4 JOG DIAL ROTATION LOAD ADJUSTMENT

[4-11] The switching of the Jog touch from ON to OFF is slow

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Jog outer assembly is incorrect	JOG section	Confirm that Damper (DEB2083) is properly assembled.	Reassemble Damper to the correct position.	—
2	Jog outer assembly have defect	JOG section	Confirm whether Jog dial (DNK6778) and Damper (DEB2083) do not touch it.	Replace the Jog dial (DNK6778).	—

[5] Sound output**[5-1] There is no sound from the analog output jack**

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Mute circuit have defect	AUDB Assy	Confirm that the voltage of the pin 6, 19 (L_MUTE_L, L_MUTE_R) of CN5002 is normal when the sound is playing. ※ The voltage is -12 V during playing sound, +11 V during muting.	If not normal, confirm Q1351, Q1352, Q1353, Q1354, Q1355, Q1356, Q1357, Q1359 and the peripheral circuit of these parts, and repair the defective soldering and replace parts if found.	—
2	Audio power supply circuit have defect	AUDB Assy	Confirm that the voltage of V+AUDIO and V-AUDIO are normal. ※ V+AUDIO is designed at 9 V and V-AUDIO is designed at -9 V.	If not confirmed, confirm IC5001, IC5002, IC5003 and the peripheral circuit of these parts, and repair the defective soldering and replace parts if found.	—
3	DAC power supply circuit have defect	AUDB Assy	Confirm that the voltage of each power supply in IC5401 (DAC) is normal. ※ The voltage is designed approximately as the circuit name. (e.g. V+3R3*→3.3 V)	If not confirmed, confirm the associated power supply ICs and their peripheral circuit, and repair the defective soldering and replace parts if found.	—
4	Reset circuit have defect	AUDB Assy	Confirm that pin 2 (DACDIT_xRST) of IC5401 (DAC) is H.	If not confirmed, confirm DACDIT_xRST circuit from MAIN Assy and repair the defective soldering and replace parts if found.	—
5	Master CLK has defect	AUDB Assy	Confirm that the waveform of pin 46 (MCLK_DAC) of IC5401 (DAC) is normal. ※ The waveform is a square wave of 3.3 V amplitude at 22.5792 MHz or 24.576 MHz.	If not confirmed, confirm the associated peripheral circuit, and repair the defective soldering and replace parts if found.	—
6	I2S circuit from MAIN Assy have defect	AUDB Assy	Confirm that the waveform of pin 3, 4, 5 (DAC_BCK, DAC_DATA, DAC_LRCK) of IC5401 (DAC) is normal.	If not confirmed, confirm I2S circuit from MAIN Assy and repair the defective soldering and replace parts if found.	10.45 WAVEFORMS ⑤
7	DAC has defect	AUDB Assy	The problem has not improved until the above.	Replace IC5401 (DAC).	—

[5-2] There is no sound from the digital output jack

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	DIT power supply circuit have defect	AUDB Assy	Confirm that the voltage of V+3R3DAC_D and V+5SPDIF is normal. ※ The voltage is designed approximately as the circuit name. (e.g. V+3R3*→3.3 V)	If not confirmed, confirm the associated power supply ICs and their peripheral circuit, and repair the defective soldering and replace parts if found.	—
2	Reset circuit have defect	AUDB Assy	Confirm that pin 5 (DACDIT_xRST) of IC5301 (DIT) is H.	If not confirmed, confirm DACDIT_xRST circuit from MAIN Assy and repair the defective soldering and replace parts if found.	—
3	Master CLK has defect	AUDB Assy	Confirm that the waveform of pin 1 (MCLK_DIT) of IC5301 (DIT) is normal. ※ The waveform is a square wave of 3.3 V amplitude at 22.5792 MHz or 24.576 MHz.	If not confirmed, confirm the associated peripheral circuit, and repair the defective soldering and replace parts if found.	—
4	I2S circuit from MAIN Assy have defect	AUDB Assy	Confirm that the waveform of pin 2, 3, 4 of (DAC_BCK, DAC_DATA, DAC_LRCK) IC5301 (DIT) is normal. ※ The same waveform as in "10.45 WAVEFORMS ⑤" is displayed.	If not confirmed, confirm I2S circuit from MAIN Assy and repair the defective soldering and replace parts if found.	10.45 WAVEFORMS ⑤
5	DIT has defect	AUDB Assy	The problem has not improved until the above.	Replace IC5301 (DIT).	—

A [6] Interface

[6-1] It does not recognize the USB flash drive (USB-A)

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Format version	—	Confirm that it is correctly formatted.	If not confirm, use a properly formatted (e.g. FAT32) version.	—
2	USB bus power supply have defect	USBA Assy	Confirm that the voltage of V+5USB_SSA2 is normal. ※ The voltage is designed approximately as the circuit name. (e.g. V+3R3* → 3.3 V)	If not confirmed, confirm IC3001, IC3002 and the peripheral circuit of these parts and repair the defective soldering and replace parts if found.	—
3	USB circuit from MAIN Assy have defect	Each Assy	Confirm the circuit from IC1801 (MAIN CPU) to JA4601 (USBA jack).	Repair defective solder and defective connections if found.	—
4	MAIN CPU has defect	MAIN Assy	The problem has not improved until the above.	If not confirmed, confirm the peripheral circuit of IC1801 (MAIN CPU) and repair the defective soldering if found. If not confirmed, replace MAIN Assy.	—

[6-2] It does not recognize the SD card

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Format version	—	Confirm that it is correctly formatted.	If not confirm, use a properly formatted (e.g. FAT32) version.	—
2	The detection signal circuit to MAIN Assy have defect	MAIN Assy	Confirm that the voltage on pin 2 and 4 (SD_xWP, SD_CD) of CN2801 change according to the state of the SD card. ※ When an SD card is inserted with a write unlocked state, both pins are L. When an SD card is inserted with the write lock state, RekordboxDB will not be loaded. So, an error is displayed on Main LCD.	Repair defective solder and defective connections if found.	—
3	Card bus power supply have defect	SDCB Assy	Confirm that the voltage of V+3R3D_SD0 is normal. ※ The voltage is designed approximately as the circuit name. (e.g. V+3R3* → 3.3 V)	If not confirmed, confirm IC2801 and the peripheral circuit of this parts and repair the defective soldering and replace parts if found.	—
4	SD signal circuit from MAIN Assy have defect	Each Assy	Confirm the circuit from IC1801 (MAIN CPU) to CN4702 (SD card slot).	Repair defective solder and defective connections if found.	—
5	MAIN CPU has defect	MAIN Assy	The problem has not improved until the above.	If not confirmed, confirm the peripheral circuit of IC1801 (MAIN CPU) and repair the defective soldering if found. If not confirmed, replace MAIN Assy.	—

[6-3] It does not be recognized the PC (USB-B), or it does not be recognized from the PC

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	VBUS circuit from PC have defect	MAIN Assy	Confirm that pin 4 of IC3601 (LOGIC) is H while PC is connected.	If not confirmed, confirm VBUS circuit from JA3601 (USBB jack) and repair the defective soldering and replace parts if found.	—
2	USB HUB power supply have defect	MAIN Assy	Confirm that the voltage of V+3R3USBHUB is normal. ※ The voltage is designed approximately as the circuit name. (e.g. V+3R3* → 3.3 V)	If not confirmed, confirm IC3604 and the peripheral circuit of this parts and repair the defective soldering and replace parts if found.	—
3	USB signal circuit from MAIN CPU have defect	MAIN Assy	Confirm the below circuits. 1. From IC1801 (MAIN CPU) to IC3602 (USB-B HUB) 2. From IC3602 (USB-B HUB) to JA3601 (USBB jack)	Repair defective solder and defective connections if found.	—
4	MAIN CPU or USBHUB have defect	MAIN Assy	The problem has not improved until the above.	If not confirmed, confirm the peripheral circuit of IC1801 (MAIN CPU) and IC3602 (USB-B HUB), and repair the defective soldering if found. If not confirmed, replace MAIN Assy.	—

[6-4] It does not be recognized from the PC (LAN)

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	LAN circuit to MAIN CPU have defect	MAIN Assy	Confirm the below circuits. 1. From IC1801 (MAIN CPU) to IC4001 (LAN-HUB) 2. From IC4001 (LAN-HUB) to JA4001(LAN jack)	Repair defective solder and defective connections if found.	—
2	MAIN CPU or LAN-HUB have defect	MAIN Assy	The problem has not improved until the above.	If not confirmed, confirm IC1801 (MAIN CPU), IC4001 (LAN-HUB) and the peripheral circuit of these parts and repair the defective soldering if found. If not confirmed, replace MAIN Assy.	—

[7] EUP

[7-1] It cannot switch to the EUP mode

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	AUTO STANDBY is OFF	—	Confirm that AUTO STANDBY in UTILITY setting is ON.	If the setting is turned OFF, the system will not switch to EUP mode. Change the setting as necessary.	—
2	PANEL CPU has defect	PNLB Assy	Confirm that pin 35 of IC7202 (PANEL CPU) is L.	If not confirmed, replace IC7202 (PANEL CPU).	—
3	It has defective connectors and so on	Connector connection	Confirm that pin 10 of CN2 on SW POWER SUPPLY is H.	If not confirmed, repair any poorly connected connectors among SW POWER SUPPLY, MAIN Assy and PNLB Assy if found.	—
4	SW POWER SUPPLY has defect	SW POWER SUPPLY	The problem has not improved until the above.	Replace SW POWER SUPPLY.	—

[7-2] It does not return from the EUP mode

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Button and Switch have defect	PNLB Assy and the peripheral Assy	Confirm that the buttons are working.	If not confirmed, confirm the status of that button or switch. If no problem, replace the switch.	—
2	PANEL CPU has defect	PNLB Assy	Confirm that pin 35 of IC7202 (PANEL CPU) change H according to the signal input of the switch.	If not confirmed, replace IC7202 (PANEL CPU).	—
3	It has defective connectors and so on	Connector connection	Confirm that pin 10 of CN2 on SW POWER SUPPLY is H.	If not confirmed, repair any poorly connected connectors among SW POWER SUPPLY, MAIN Assy and PNLB Assy if found.	—
4	SW POWER SUPPLY has defect	SW POWER SUPPLY	The problem has not improved until the above.	Replace SW POWER SUPPLY.	—

[8] Power supply monitoring

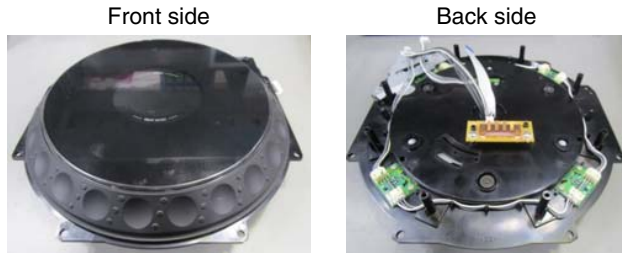
[8-1] Power supply monitoring

No.	Cause	Diagnostics Point	Item to be Confirmed	Corrective Action	Reference
1	Each power supply circuit has defect	Each Assy	SOURCE indicator (Upper of TAG LIST, PLAY LIST buttons) keeps blinking as the power monitoring circuit detects a malfunction. Refer to "5.4 VOLTAGE MONITORING CIRCUIT" to confirm each circuit. ※ This state is kept until IC7202 (PANEL CPU) is reset.	Search for defective power circuits, repair the defective soldering and replace parts if found. If the parts that are difficult to replace are defective, the relevant Assy must be replaced.	5.4 VOLTAGE MONITORING CIRCUIT

5.3 JLCD ASSY DIAGNOSIS METHOD

A ■ Problem about the JOG

The JLCD Assy is structured in such a way that it cannot be diagnosed when the product is in operation. Because the JLCD Assy is located inside the Jog Assy, as the below figure.



The disassembly procedure to the diagnostic status is listed under the following conditions.

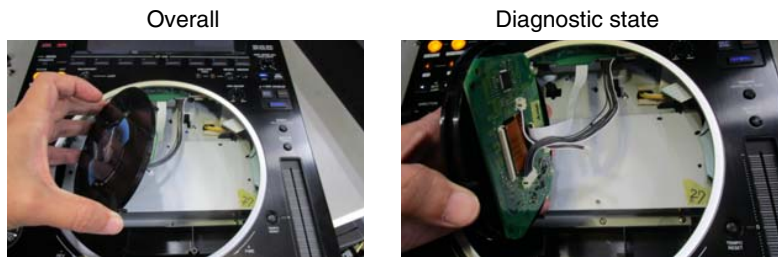
Case 1 : The procedure for repairing that **the JOG LCD does not work**

Case 2 : The procedure for repairing that **the product cannot detect the Jog touch**

※ The Jog Assy does not need the disassemble when the product cannot detect the Jog rotation.

C ■ Case 1 : The procedure for repairing that **the JOG LCD does not work**

In order to perform a diagnosis in this case, you need to disassemble the Jog to the following states.



D ■ Diagnostic procedure and contents

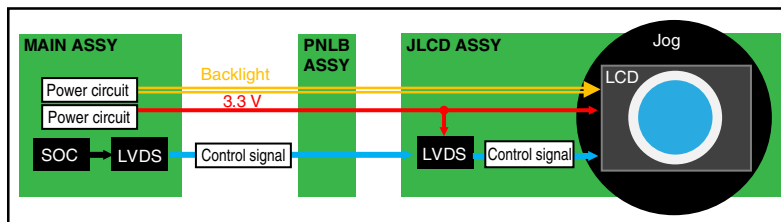
- Remove the Control panel Section.
(Refer to "7. DISASSEMBLY".)

① Before disassembling the Jog Assy, confirm that the MAIN Assy is not defective.

※ MAIN Assy defects can be diagnosed without having to disassemble the Jog Assy.

- Is the back light power (BL1_C) normal?
- Is the control power (V+3R3D) normal?
- Is the control signal from MAIN CPU (IC1801) to LVDS Tx (IC4401) normal?
- Is the output signal from LVDS Tx (IC4401) normal?

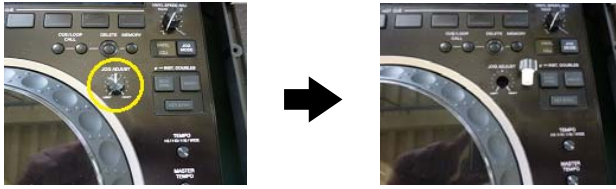
These signals are supplied via PNLB Assy, so you should also confirm the output from PNLB Assy first.



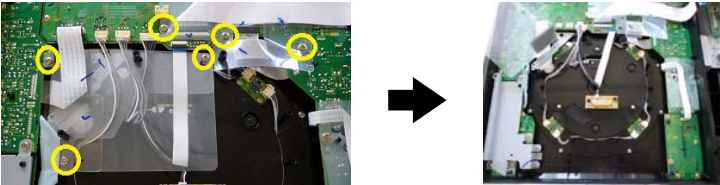
If you don't find any problems after confirming so far, disassemble the Jog Assy.

② Remove the Jog Assy from the Control panel Section.

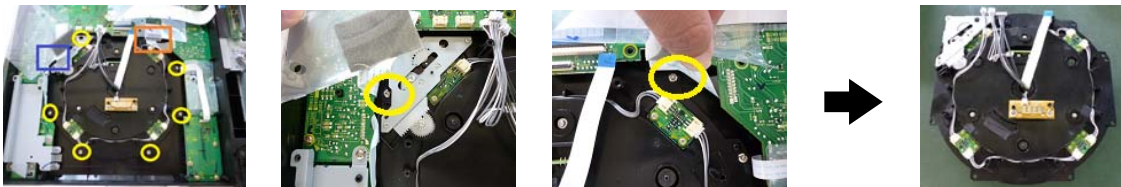
②-1 Remove the Knob.



②-2 Remove the 6 screws and then disconnect the each FFCs and connectors.

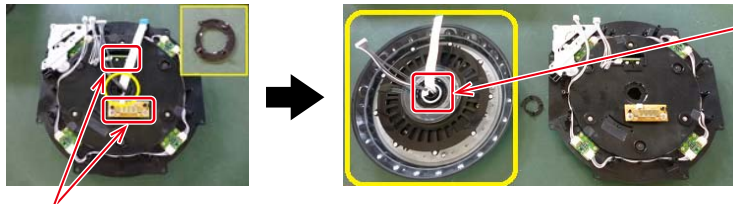


②-3 Remove the 8 screws and then remove the Jog Assy.



③ Remove the JOG LCD Assy from the Jog Assy.

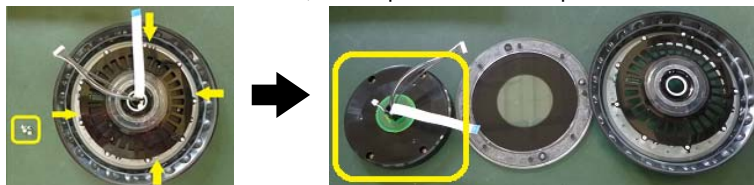
③-1 Remove the Holder (DNK6780) and separate the top and bottom.



* If the white shaft (DNK6785) is attached to DIAL Assy, remove it with tweezers and attach it to HOLDER Assy. (The shaft may fall off when you check OUTER later)

* Removing JOGB and CONB Assys earlier.

③-2 Remove the four screws, and separate the touch part.



③-3 Remove the four screws, disconnect the 2 pin connectors between the JLCD Assy and the COIL1 Assy, and remove the JOG LCD Assy.



- A ④ Connect JLCD Assy and PNLB Assy with the wires (FFC 22 pin, ZH connector 9 pin Assy), and turn on the power.



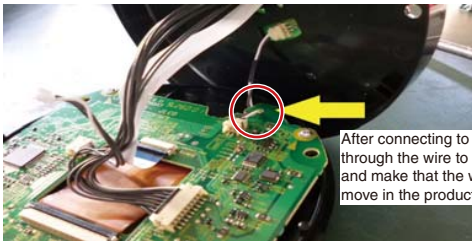
- B ⑤ Diagnose it.



- Are the back light power and the control power in the JLCD Assy normal?
⇒ Confirm the defective soldering in FFC, Connector and the JLCD Assy. If there are problems, repair them.
- Is the output signal from LVDS Rx (IC7005) normal?
⇒ Confirm for signals such as JCL_CK, JLC_R*, JLC_G* and JLC_B*.
If there is no signal output or the signal waveform is abnormal, replace IC7005.
- If you don't find any problems after confirming so far, replace the Assy in the order of JLCD Assy and JOG LCD Assy.

[Important] Caution after the repairing

- ① When disassembling and reassembling the JLCD Assy and the COIL1 Assy, care should be taken with the setting of the wire.



After connecting to the connector, through the wire to the board hook, and make that the wiring does not move in the product.

- ② When you reassemble the Sheet or replace the SLDB Assy, care should be taken with the setting of the Flat cable jumpers located between the SUB2 Assy and SLDB Assy.

⇒ Stack them in the order of the Sheet (DEC3842), the Flat cable jumper, and the Barrier (DEC3932) and screw them together.

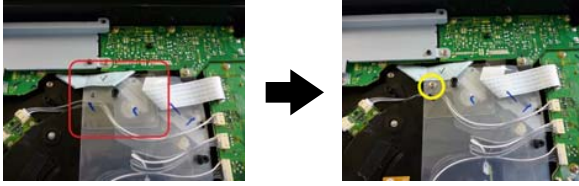
- ②-1 When installing the Sheet (DEC3842), keep the Flat cable jumper upright.



- ②-2 Tilt the Flat cable jumper so that it is stacked on top of the Sheet (DEC3842).



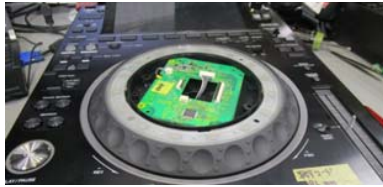
- ②-3 Stack a Barrier (DEC3932) on the Flat cable jumper and screw them together.



- ③ After disassembling the JLCD Assy and the COIL2 Assy, be sure to do the calibration of JOG LCD. (Refer to "6.2 JOG LCD CALIBRATION".)

Case 2 : The procedure for repairing that the product cannot detect the Jog touch

In order to perform a diagnosis in this case, you need to disassemble the Jog to the following states.

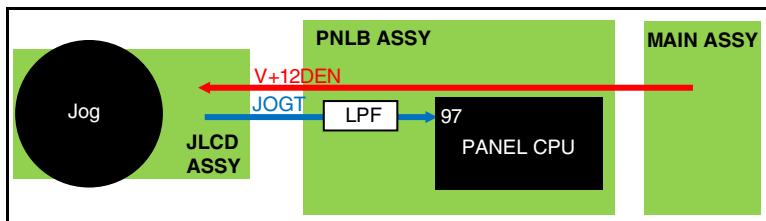


■ Diagnostic procedure and contents

- Remove the Control panel Section. (Refer to "7. DISASSEMBLY".)

- ① Before disassembling the Jog Assy, confirm that the PNLB Assy side is not defective.
 ※ PNLB Assy defects can be diagnosed without having to disassemble the Jog Assy.

- Is the power for touch detection, or V+12DEN supplied?
 ⇒ Confirm the 1 pin (12V) of CN1212 on the PNLB Assy.
- Is the touch detection signal (JOGT) output when you touch the Jog?
 ⇒ Confirm if there is a change of voltage from 0.5 V to 2 V at the 2 pin of CN7206 on the PNLB Assy.
- Is the JOGT signal input to pin 97 of the PANEL CPU (IC7002)?
 ⇒ Confirm the CPU directly with a tester or oscilloscope.
- The Jog touch cannot be detected even though the JOGT signal is input to the pins of the PANEL CPU.
 ⇒ Replace the PANEL CPU (IC7002).



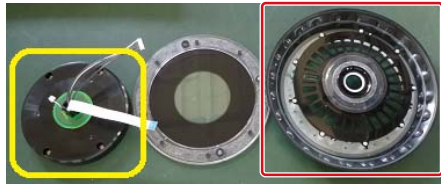
If you don't find any problems after confirming so far, disassemble the Jog Assy.

- ② Remove Jog Assy from the Control panel Section. (Refer to Case 1)
- ③ Disassemble the Jog Assy, and show the diagnostic side of the JLCD Assy.
- ③-1 Remove the center Holder (DNK6780) and separate the top and bottom. (Refer to Case 1)
- ③-2 Remove the three screws, and separate the touch part. (Refer to Case 1)

A - Diagnosis -

Turn over the Assy circled in red in the below figure.

- Confirm that the Sheet SW is installed correctly and that there is no dirt, damage or moisture contamination.
⇒ Install the Sensor (Sheet SW) correctly. Replace the Sheet SW if it is dirty, damaged or contaminated with moisture.
- Confirm the connection between the Sensor (Sheet SW) and the COIL2 Assy.
⇒ Repair if there are poor connections or bad soldering.

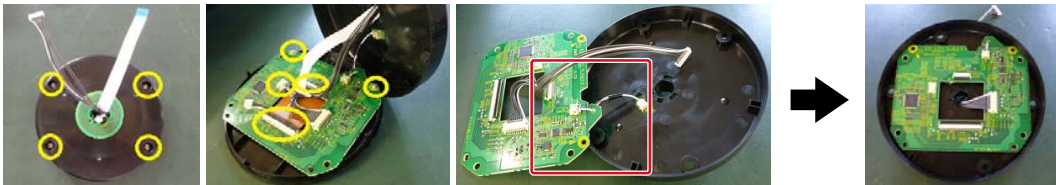


* If Shatf (DNK6785) is attached when checking DIAL Assy, remove it with tweezers and attach it to HOLDER.



B

- ③-3 Remove the four screws, and remove the cover. Disconnect the connectors except the 2-pin and 9-pin connectors, and turn over the JLCD Assy.



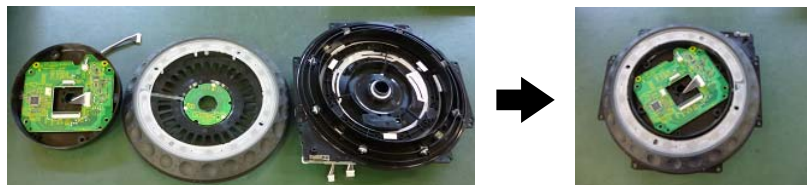
C

- Diagnosis -

- Confirm the connection between the COIL1 Assy and the JLCD Assy circled in red in the above figure.
⇒ If it has any issue, repair it. Repair if there are bad soldering in the JLCD Assy.

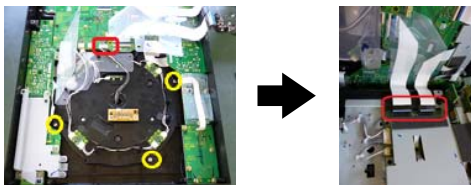
- ④ Reassemble the JLCD Assy until the status that they are ready to diagnose.

- ④-1 Reassemble the three Assys in the below figure.



D

- ④-2 Reassemble the Assys in the Control panel Section. At this time, three screws are temporarily fixed, and connect 9-pin connector to the PNLB Assy. And, connect to the Chassis Section in this state.



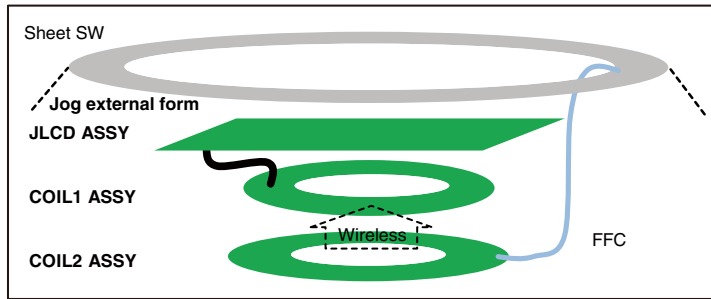
E

- ④-3 Turn on the power, and start the diagnosis.



F

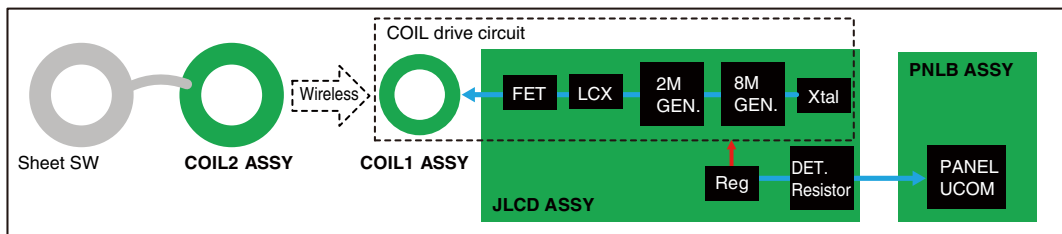
Structural Image Diagram



- Diagnosis -

- COIL drive circuit has the defective
 - ⇒ If the voltage on pin 5 of IC7002 (LDO) does not reach 3.3 V, replace the IC7002.
 - ⇒ If the clock on 4 pin of IC7003 (LOGIC) is not 8 MHz, replace X7001 (Resonator) or IC7003.
 - ⇒ If the clock on 8 pin of IC7004 (LOGIC) is not 2 MHz, replace IC7004.
 - ⇒ If the clock on the gate side of Q7003 (FET) is not 2 MHz, replace IC7006 (LOGIC).
 - ⇒ If 2 pin of CN7003 dose not have 2 MHz half-wave waveform, replace Q7003 (FET).

Structural Image Diagram



- Confirm the signal (JOG_SW) on 2 pin of CN7002
 - ⇒ When the jog is touched, the JOG_SW signal changes from about 0.5 V (touch off) to about 1.5 V (touch on).
 - If the signal has any problem, replace the JLCD Assy, the COIL2 Assy, and the COIL1 Assy in that order.

[Important] Caution after the repairing

Refer to "[Important] Caution after the repairing" in Case1.

5.4 VOLTAGE MONITORING CIRCUIT

A ■ Voltage-Monitoring

This unit monitors the voltages of the main power-supply ICs, using the xFDET signal.
The xFDET signal level is high (+3.3 V) during normal operations. When the level becomes low (0 V), detect abnormality in the PANEL CPU (IC7202).

B ■ Product behavior when an error is generated

The SOURCE indicator flashes in red.

As the V+12TPS, V+12D, V+12A power is stopped, the indications other than the SOURCE indicator are light off and all the switches and VRs are disabled.

The PANEL CPU will stop supplying the V+12TPS, V+12D, V+12A power from SW POWER SUPPLY, setting the EUP_CTRL signal to low.

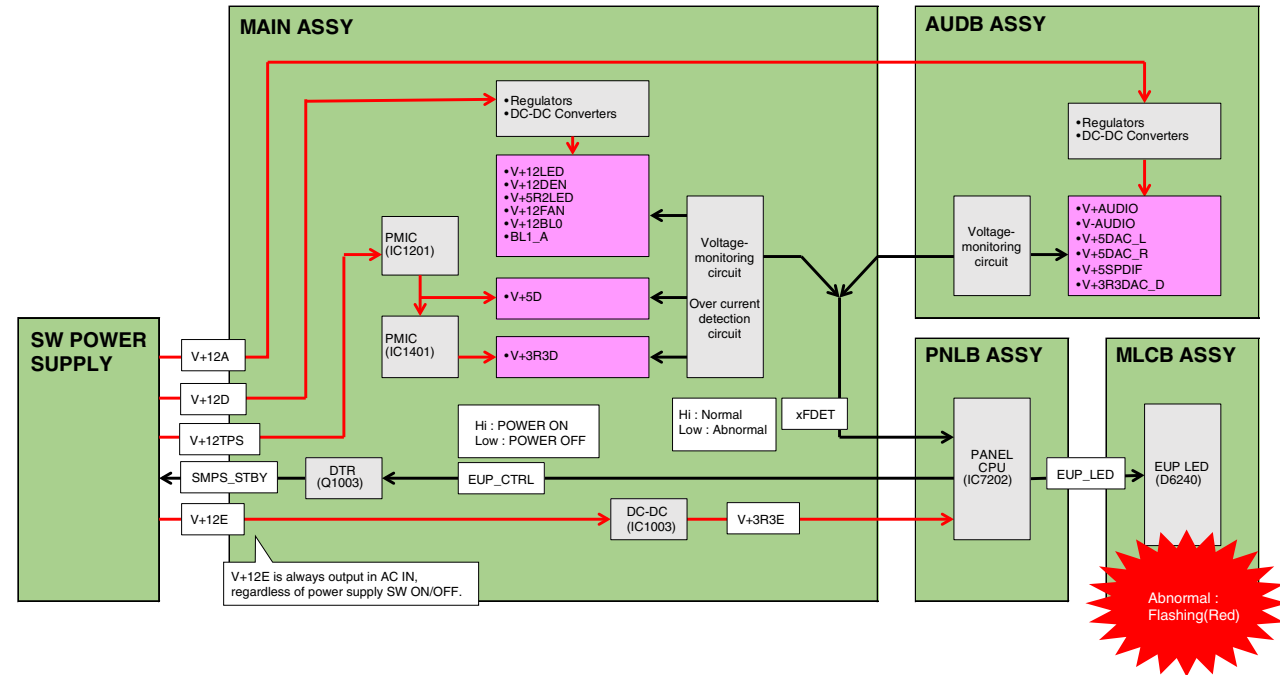


C ■ Diagnostic procedure

Caution : Each time before turning the unit ON, make sure that each power-supply IC is not short-circuited to GND.

If any voltage is abnormal, that error will be detected by the voltage-monitoring program after it is started after a usual startup of the unit. Then the V+12TPS, V+12D, V+12A power from SW POWER SUPPLY will be stopped.

Identify which power-supply IC is defective, by repeat power supply ON/OFF while monitoring each voltage with an oscilloscope. Check the value of each voltage immediately before stopping power supply.

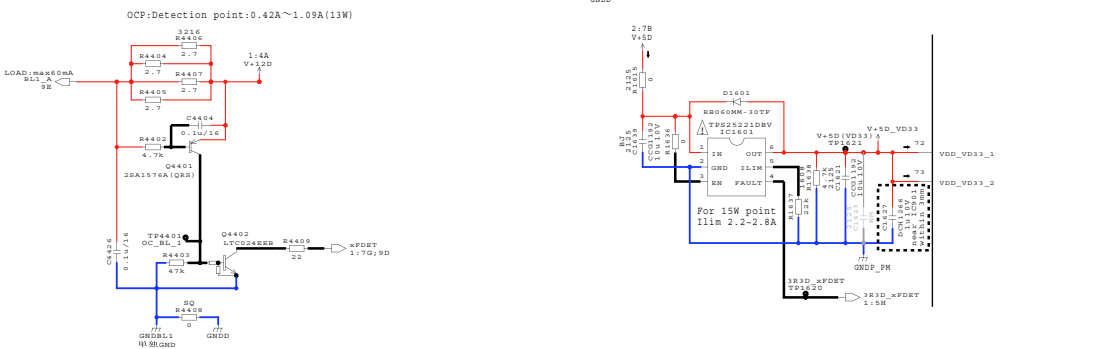
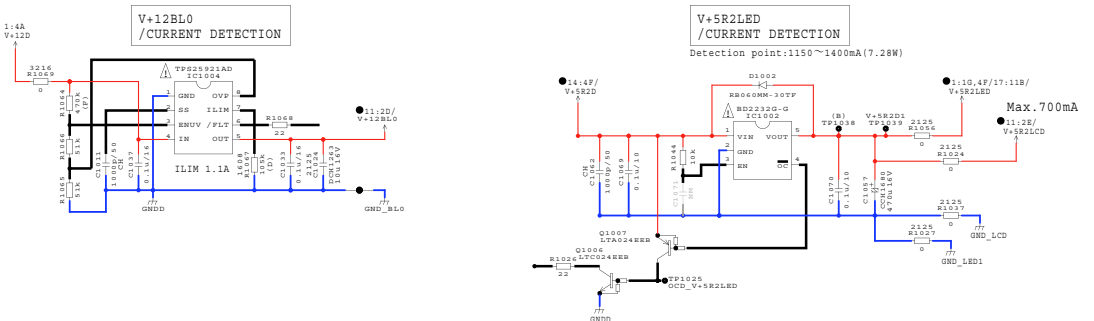
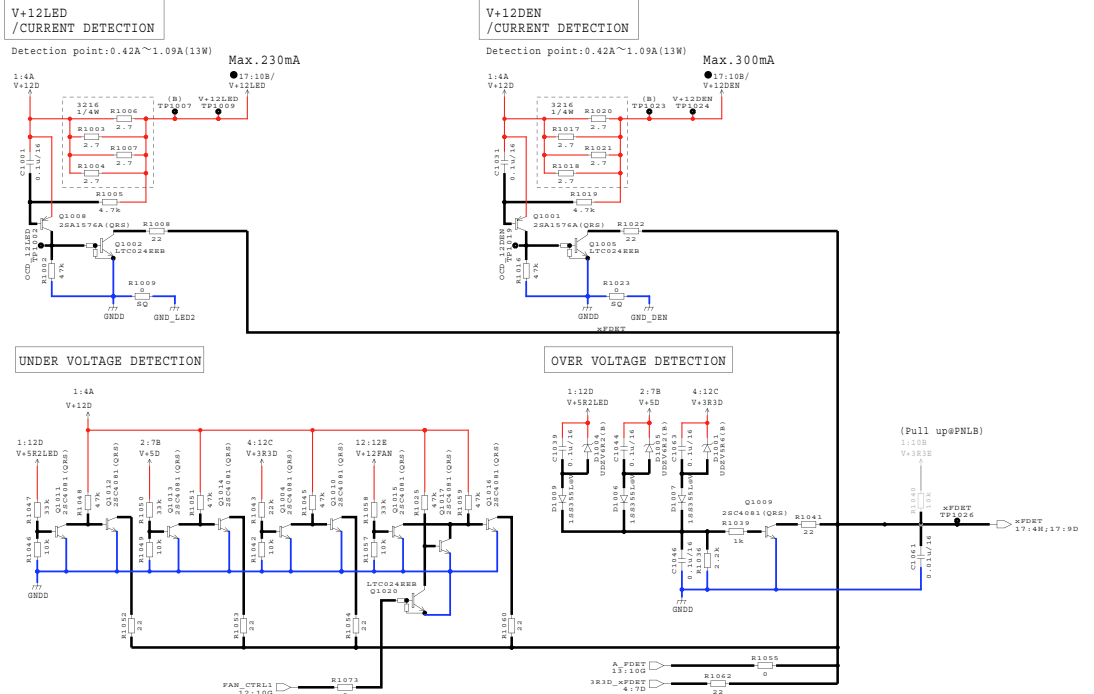


D ■ Voltage value and Current value of the voltage-monitoring section

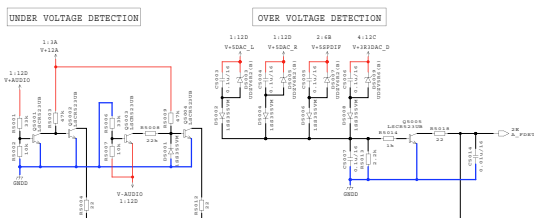
Power	UVP	OVP	OCP	Power	UVP	OVP	OCP
V+12LED	-	-	0.89 A	V+3R3D	1.92 V	6.8 V	-
V+12DEN	-	-	0.89 A	V+AUDIO	2.58 V	-	-
V+5R2LED	2.58 V	7.4 V	1.275 A	V-AUDIO	-2.58 V	-	-
V+12FAN	2.58 V	-	-	V+5DAC_L	-	7.4 V	-
V+5D	2.58 V	7.4 V	2.6 A	V+5DAC_R	-	7.4 V	-
V+12BLO	-	-	1.1 A	V+5SPDIF	-	7.4 V	-
BL1_A	-	-	0.89 A	V+3R3DAC_D	-	6.8 V	-

■ Voltage-Monitoring Circuit diagram

● MAIN ASSY



● AADB ASSY



5.5 ERROR CODE DISPLAY

Error code	Display word	Contents	Remarks
E-8302	CANNOT PLAY TRACK	Abnormalities occurred during playback.	
E-8303	CANNOT PLAY TRACK	Buffer memory writing error occurred.	
E-8304	UNSUPPORTED FILE FORMAT	Decoding error occurred.	
E-8305	UNSUPPORTED FILE FORMAT	This format is not supported.	
E-8306	NO FILE	The registered file does not exist.	
E-8307	<ul style="list-style-type: none"> •DEVICE NO RESPONSE. •UNSUPPORTED DEVICE. •HUBS ARE NOT SUPPORTED. 	<ul style="list-style-type: none"> •Device no response. •Unsupported device. •Hubs are not supported. 	An unsupported USB device is connected. Either of the three error types will be displayed.
E-8308	SD CARD ACCESS ERROR	You connected MMC (Multi Media Card).	
E-8309	LINK ACCESS ERROR	Operation finished an error in four times continuous time-out.	

5.6 CONNECTION CONFIRMATION WITH THE PC

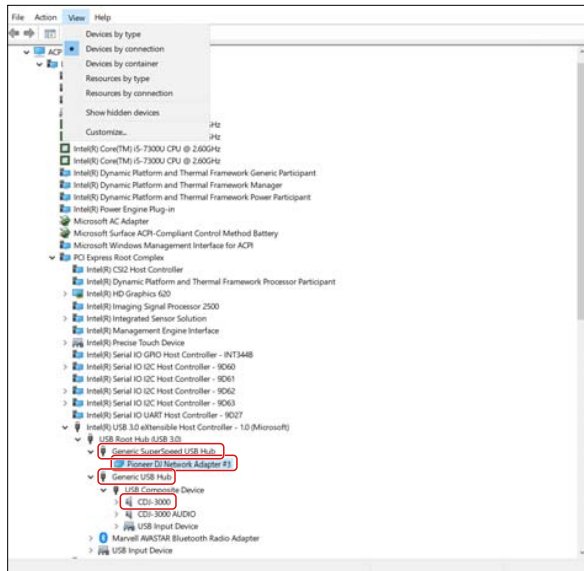
[USB B connector]

Whether communication between the PC connected via the USB B connector and this unit is properly performed or not can be confirmed on the PC.

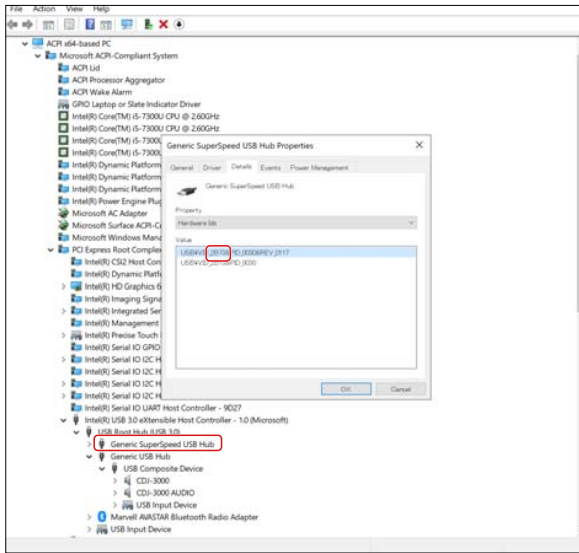
Note: You need to have installed drivers for CDJ-3000 on PC.

Confirmation method

- ① Connect the PC and CDJ-3000 with a USB3.0 cable (Commercially available USB 3.0 certified product), open the device manager and display the connection hierarchy view,
 - ①-1 Confirm that "Pioneer DJ Network Adapter" is displayed under "Generic SuperSpeed USB Hub".
 - ①-2 Confirm that "USB Composite Device> CDJ-3000" is displayed under "Generic USB Hub".

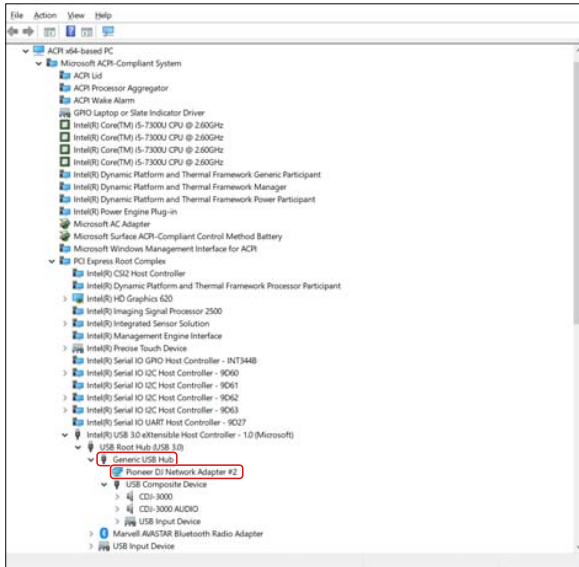


- ①-3 Right-click on the "Generic SuperSpeed USB Hub" icon above and select properties. Set the property in the Details tab to "Hardware IDs" and confirm that the value includes "VID_2B73".



- ② Connect the PC and CDJ-3000 with a USB2.0 cable (GGP1193), open the device manager and display the connection hierarchy view,

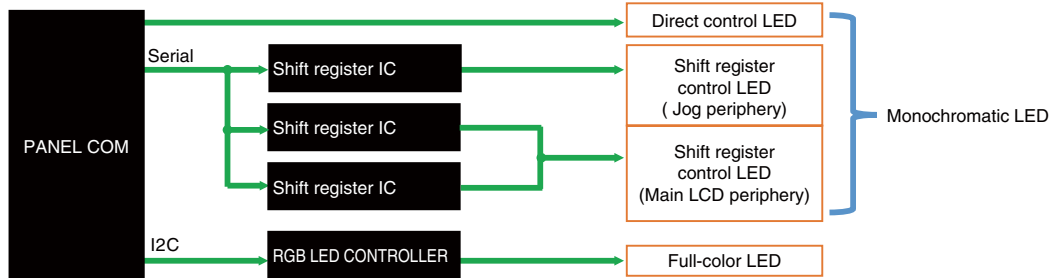
- ②-1 Confirm that "Pioneer DJ Network Adapter" is displayed under "Generic USB Hub".



5.7 ABOUT LED

■ Distribution diagram

There are three types of LED lighting controls as shown below.



■ Monochromatic LED

Assy	Name	Color	Lighting control IC	Light on dimly	Power
JILM1-4 Assy	JILMW	Chip white	Direct control		5.2 V
	JILMR	Chip red *2	Direct control		5.2 V
MLCB Assy	EUP	Chip red	Direct control		3.3 V
	BROWSE	Chip blue *2	Shift register control	○	12 V
	TAG LIST	Chip blue *2	Shift register control	○	12 V
	PLAYLIST	Chip blue *2	Shift register control	○	12 V
	SEARCH	Chip blue *2	Shift register control	○	12 V
	MEDIA	Chip white *2	Shift register control	○	12 V
	MENU	Chip white *2	Shift register control	○	12 V
	ENC	Chip white *2	Shift register control		12 V
	PNLB Assy	CUE/LOOP CALL ◀, ▶	Chip amber *2	Direct control		12 V
SUB1 Assy	TRACK SEARCH ◀◀, ▶▶	Shell orange *2			12 V
	SEARCH ◀◀, ▶▶	Shell orange *2			12 V
	LOOP IN/CUE	Shell orange	Shift register control		5.2 V
	LOOP OUT	Shell orange	Shift register control		5.2 V
	LOOP RELOOP/EXIT	Shell orange	Shift register control		5.2 V
	4 BEAT LOOP	Shell orange	Shift register control		5.2 V
	8 BEAT LOOP	Shell orange	Shift register control		5.2 V
	BEAT JUMP ▶	Shell white	Shift register control		12 V
	BEAT JUMP ◀	Shell white	Shift register control		12 V
	SLIP	Shell red	Direct control	○	5.2 V
	QUANTIZE	Shell red *2	Direct control	○	12 V
REV	Shell red	Shift register control		5.2 V	
SUB2 Assy	MASTER TEMPO	Shell red	Direct control		5.2 V
	MASTER	Shell orang *3	Direct control	○	12 V
	BEAT SYNC	Shell white *3	Direct control	○	12 V
	KEY SYNC	Shell blue *3	Direct control	○	12 V
	VINYL	Shell blue	Direct control		12 V
SLDB Assy	CDJ	Shell green	Direct control		5.2 V
	TEMPO RESET	Shell green	Direct control		5.2 V
KSWB Assy	PLAY/PAUSE ▶/||	Chip emerald green	Direct control		12 V
	CUE	Chip amber *2	Direct control		12 V
		Chip amber *3			12 V

■ Monochromatic LED position



- EUP Red
- On MLCD Assy White
Blue
- ENC White
- QUANTIZE Red
- SLIP Red
- LOOP IN/OUT Orange
- LOOP RELOOP Orange
- 4/8 BEAT Orange
- BEAT JUMP White
- REV Red
- SEARCH Orange
- CUE Orange
- PLAY/PAUSE ▶/⏸ emerald green
- JILMW White
- JILMR Red
- CUE/LOOP CALL Orange
- VINYL Blue
- CDJ Green
- MASTER Orange
- BEAT SYNC White
- KEY SYNC Blue
- MASTER TEMPO Red
- TEMPO RESET Green

■ Shift register IC

IC	Output	Name
74VHC595FT IC7200 (PNLB Assy)	QA	LOOP RELOOP/EXIT
	QB	LOOP OUT
	QC	LOOP IN/CUE
	QD	8 BEAT LOOP
	QE	4 BEAT LOOP
	QF	BEAT JUMP ▶
	QG	BEAT JUMP ◀
	QH	REV
74VHC595FT IC6002 (MLCB Assy)	QA	MEDIA
	QB	BROWSE
	QC	TAG LIST
	QE	PLAYLIST
	QF	SEARCH
	QG	NEMU
	QH	ENC
	74VHC595FT IC6003 (MLCB Assy)	QA	MEDIA
QB		BROWSE
QC		TAG LIST
QE		PLAYLIST
QF		SEARCH
QG		NEMU
QH		

Light on (100%)

Light on dimly (10%)

A ■ Full-color LED

Assy	Name	Color	Point	Number	Control line	Light on dimly	Lighting control	Vcc
MLCB	SOURCE indicator	Full-color	1	1	3	Non	RGB LED CONTROLLER	5.2
ILMB	SD		1	1	3	When flashing		5.2
	USB		1	2	6	When flashing		5.2
PNLB	HOT CUE A		1	1	3	Only white when not set		5.2
	HOT CUE B		1	1	3	Only white when not set		5.2
	HOT CUE C		1	1	3	Only white when not set		5.2
	HOT CUE D		1	1	3	Only white when not set		5.2
	HOT CUE E		1	1	3	Only white when not set		5.2
	HOT CUE F		1	1	3	Only white when not set		5.2
	HOT CUE G		1	1	3	Only white when not set		5.2
	HOT CUE H	1	1	3	Only white when not set	5.2		

■ Full-color LED position



6. SERVICE MODE

6.1 SERVICE MODE

OUTLINE OF THE SERVICE MODE

The following service modes are prepared for this product.

Service mode	Overview
1/10: VERSION INFORMATION	Various information such as version number of each CPU and the MAC address are displayed.
2/10: LED ALL ON, LCD CHECK	The mode to check LED operation. All LEDs light on, and the color pattern is displayed in the Touch display.
3/10: LED ALL OFF, LCD BLACK	The mode to check LED operation. All LEDs lights off, and the black screen is displayed in the Touch display.
4/10: CHECK MODE OF OPERATORS	The mode to check operators such as buttons, analog operators and JOG, and check display.
5/10: TOUCH PANEL CHECK	The mode to check and calibrate the touch panel.
6/10: JOG LCD CALIBRATION PAGE	The mode to calibrate the JOG LCD.
7/10: FAN OPERATION CHECK PAGE	The mode to check the fan operation in the product.
8/10: THERMOMETER CHECK PAGE	The mode to check the operation of the thermometer mounted in the product.
9/10: UPD PORT CHECK	The mode to check the UPD Port.
10/10: FACTORY RESET and AUTO STANDBY MODE	The mode to execute the Factory Reset and check the Auto Standby.

Furthermore, the following expansion pages are prepared for.

11: THE JOG LOAD CHECK MODE	The mode to measure load of the JOG Dial.
-----------------------------	---

How to use the SERVICE MODE

How to start

- If the \odot button is pressed while the ① [TEMPO $\pm 6/\pm 10/\pm 16$ /WIDE] button and ② [CUE/LOOP CALL \blacktriangleleft] button is pressed simultaneously.
- [SERVICE MODE] will be displayed on the Touch display that the service mode has started.
(Please keep pressing until "Pioneer DJ" logo displays.)

How to switch the each service modes

[MODE CHANGE]

- If you want to switch the each service mode, press the ③ or ④ button.
- ③ [TAG TRACK /REMOVE] button: Switch to the next service mode
- ④ [BACK] button: Switch to the previous service mode

[SUB PAGE CHANGE]

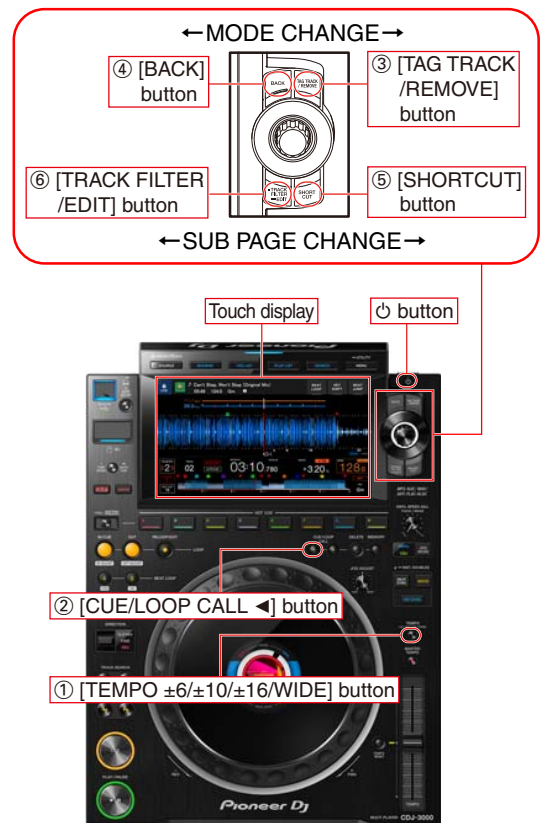
- If the service mode have the sub page more than 2 pages, you can switch its using ⑤ or ⑥ button.
- ⑤ [SHORTCUT] button: Switch to the next page
- ⑥ [TRACK FILTER /EDIT] button: Switch to the previous page

How to enter the expansion page 11: THE JOG LOAD CHECK MODE

- Turn the [VINYL SPEED ADJ. TOUCH/BRAKE] knob to a maximum with any screen.
(but the operators check mode is excluded)

How to end the service mode

- Turn off the power.



A DETAILS OF THE SERVICE MODE

[Mode 1/10] VERSION INFORMATION

- SUB PAGE [1-1]: Display of Version information (Touch display)

1-1: VERSION INFORMATION		
Main CPU		
System Version: 1.00	MAIN:	C8-3D-36-02-00-E8
App Revision : 1.00	USB-LAN:	00-E0-36-00-D2-2C
Kernel Revision : 1.00		
Sub CPU		
Panel Version: 1.00	DESTINATION:	SY
	SERIAL No. :	000000000099

- You can check the various information such as the version number of microcomputer in this page. The displayed items are as follows.

- Main CPU

- System Version: The version number of MAIN CPU
- App Revision: The App revision number of MAIN CPU
- Kernel Revision: The Kernel revision number of MAIN CPU

- Sub CPU

- Panel Version : Version number of SUB CPU

- MAC ADDRESS

- MAIN: The MAC address of the Ethernet built in the product
- USB-LAN: The MAC address of USB-LAN
 - × In order to correctly display the MAC address of USB-LAN, the following two points must be noted.
 - Connect this unit's USB-B to the PC and start the rekordbox
 - Do not connect anything to the LAN terminal of this unit

- DESTINATION: Destination code

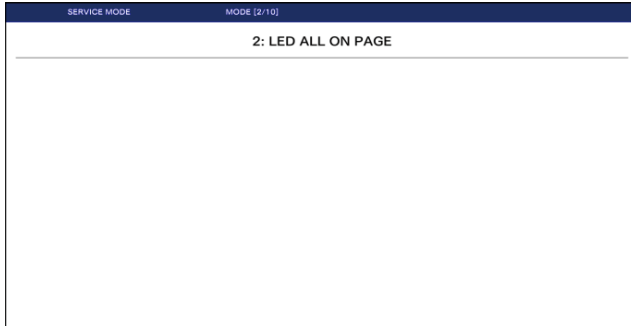
- SERIAL No.: Serial number

[Warning indication when JOG LCD calibration is not performed]

If the JOG LCD calibration has not been performed, the JOG ring will flash. Perform the JOG LCD CALIBRATION MODE. (Refer to "6.2 JOG LCD CALIBRATION")

[Mode 2/10] LED ALL ON, LCD CHECK

• Touch display



• Jog display



[Detail of this mode]

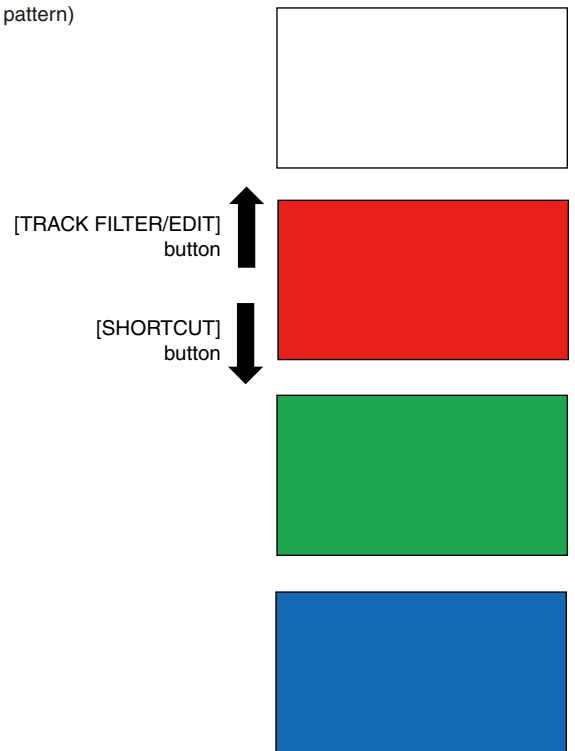
- You can check the state of all LEDs in the single and in the full-color, and also check color patterns on the Touch display.
- All LEDs shown in the following image light on when you enter this page, and then the page title is hidden and the white screen is displayed on the Touch display and Jog display.
- The initial state of full-color LED is white indication.
- Press [TRACK FILTER/EDIT] or [SHORTCUT] button to switch the color of full-color LED and the color pattern on the Touch display.
However, the Jog display always displays the white screen.
- You can check the JOG LED Red indication only when the color pattern displays the red screen on the Jog display.

[LED lighting location]

- : Full-color LED (These color change according to the color pattern)
- : Monochromatic LED



[Color pattern]



A [Mode 3/10] LED ALL OFF, LCD BLACK

- Touch display



[PLAY/PAUSE ►/||] button

- You can see the state that all LEDs light off.
- After switching this page, the page title is hidden and the black screen is displayed on the Touch display. The JOG LCD also display the black screen.
- While pressing [PLAY/PAUSE ►/||] button, the Standby LED lights on.

B [Mode 4/10] CHECK MODE OF OPERATORS

- Touch display

SERVICE MODE		Page [4/10]
4: CHECK MODE OF OPERATORS		
OPERATOR	CURRENT VALUE	RESULT
BUTTON:	*****	7 / [46]
DIRECTION LEVER:	SLIP REVERSE	--
SD CARD SW:		--
ENCODER:	3	--
TEMPO SLIDER:	-6	[OK]
VINYL SPEED ADJUST:	16	--
JOG TOUCH SWITCH:		
JOG ROTATION:		

[Detail of this mode]

- You can check whether the buttons, analog operators, JOG dial and the Touch display on the product work normally or not.

Buttons

- Self-lighting button lights on in the initial state, and lights off when the button is pressed.
- While any buttons are pressed, its button name is displayed in ***** part in the "CURRENT VALUE" on the figure.
- The count in the left side of "RESULT" on the figure is added each time the button is normally input.
- When the all buttons are normally input, [OK] is displayed in the right side of "RESULT".

■ Direction Lever

- Depending on the status of the direction lever switch, [FWD], [REVERSE] or [SLIP REVERSE] will be displayed in the "CURRENT VALUE". When all three status are detected, [OK] is displayed in the "RESULT".

■ SD Card Switch

- Depending on the status of the SD Card Switch, [OPEN] or [CLOSE] will be displayed in the "CURRENT VALUE". If both status are detected, [OK] is displayed in the "RESULT".

■ Analog Operators (Encoder, Tempo Slider, Vinyl Speed Adjust Knob)

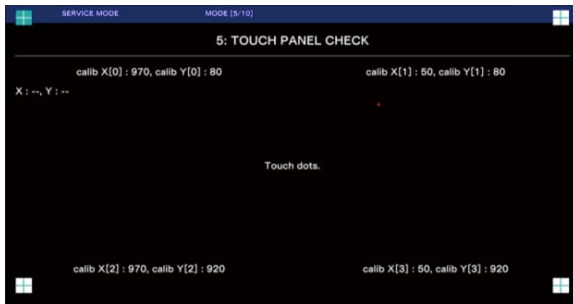
- Current analog value of each operator is displayed in the "CURRENT VALUE".
- If you move the operators, the current value change according to the change in the value.
- When the value of both ends are detected in each operator, [OK] is displayed in the "RESULT".

■ JOG Dial

- JOG TOUCH SW: "ON" is displayed while you touch JOG dial.
- JOG ROTATION: The rotation direction of JOG is displayed.
- The JOG LED in white lights on during forward rotation, and the JOG LED in red lights on during reverse rotation.

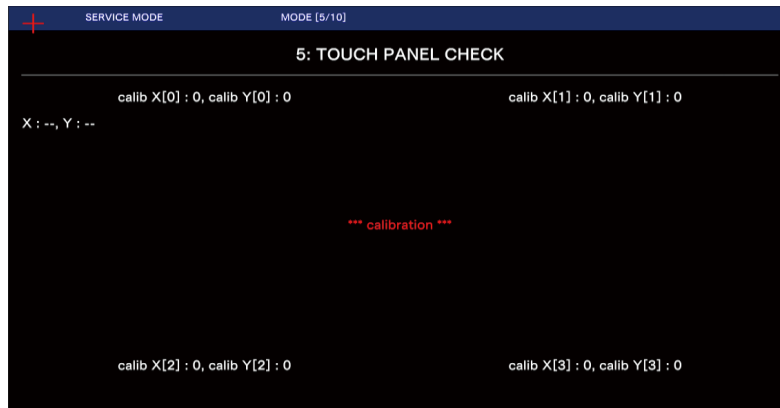
[Mode 5/10] TOUCH PANEL CHECK

[Touch Panel Check]



- You can check accuracy of the touch panel. Touch the quadrangle at the four corners to turn it blue. (You should use a pointed touch pen.)
- When all the quadrangles are touched, [OK] is displayed on the display.
- If you touch a place other than quadrangles, "+" symbol is displayed on the place you touched.

[Touch Panel Calibration]



A



B

- You can switch from CHECK MODE to CALIBRATION MODE by pressing [LOOP RELOOP/EXIT] button.
- Calibration is performed in the following 4 steps.
 - While touching the center of "+" symbol in red on the top left, press [LOOP RELOOP/EXIT] button.
 - While touching the center of "+" symbol in red on the top right, press [LOOP RELOOP/EXIT] button.
 - While touching the center of "+" symbol in red on the bottom left, press [LOOP RELOOP/EXIT] button.
 - While touching the center of "+" symbol in red on the bottom right, press [LOOP RELOOP/EXIT] button.
 (Note: If you press [LOOP RELOOP/EXIT] button without touching any place and end the calibration, the calibration value is discarded. Touch operation operates in the state without the calibration.)

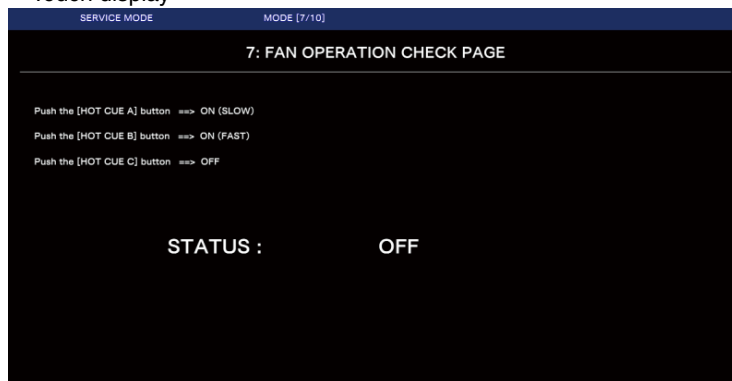
C

[Mode 6/10] JOG LCD CALIBRATION PAGE

Refer to "6.2 JOG LCD CALIBRATION".

[Mode 7/10] FAN OPERATION CHECK PAGE

- Touch display



D

E

- You can check the FAN operation.

[Operators]

- [HOT CUE A] button: FAN rotates slowly.
- [HOT CUE B] button: FAN rotates fast.
- [HOT CUE C] button: FAN rotation become stop.

- The current rotation status is displayed on the right side of "STATUS".
- The rotation status is maintained even if the mode is switched.

F

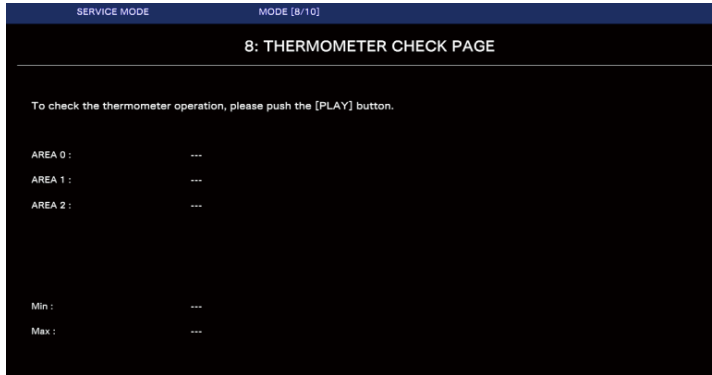
[Refer to it for the following repairs]

- Check the operation after replacing Fan motor
- Check the operation after replacing MAIN Assy or FANB Assy



[Mode 8/10] THERMOMETER CHECK PAGE

- Touch display



[PLAY/PAUSE ▶/||] button

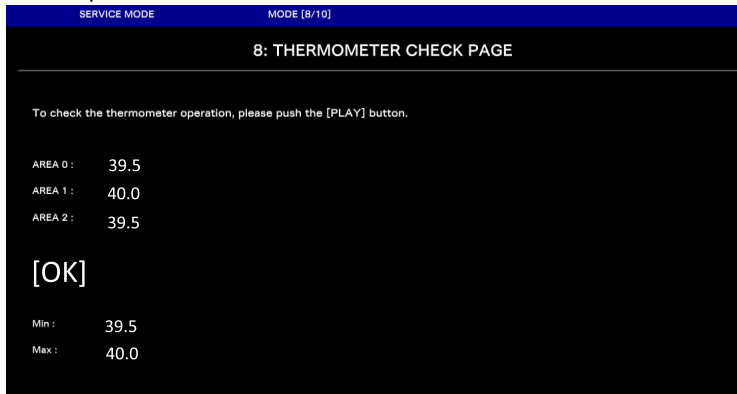
- You can check whether the three built-in thermometers installed in the product operate normally.
- When the [PLAY/PAUSE ▶/||] button is pressed, the measured values of the three thermometers of AREA 0 to 2 are displayed on the Touch display.

[Judgement]

- ① The detected temperature of all thermometers of AREA 0 to 2 is within 0 to 100 °C
- ② The temperature difference between the three thermometers is within 10 °C

When these conditions are met, [OK] is displayed. If not met, [NG] is displayed.

- Example

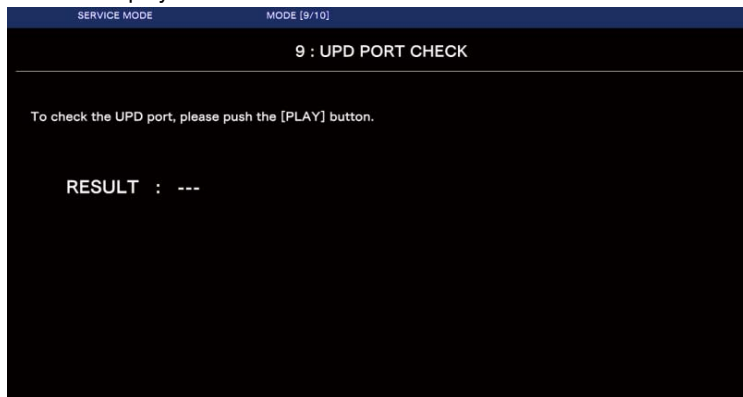


[Refer to it for the following repairs]

- Check the operation after replacing MAIN Assy
- Check the measured value of the thermometer when Fan motor has issue

[Mode 9/10] UPD PORT CHECK

- Touch display



[PLAY/PAUSE ►/||] button

- You can check whether the update port used for updating the product is normally.
- When press [PLAY/PAUSE ►/||] button, the check mode is started.
- The judgement result is displayed on the Touch display as [OK] or [NG].

[Refer to it for the following repairs]

- The firmware update caused a glitch

[Mode 10/10] FACTORY RESET and AUTO STANDBY MODE

- Touch display



[TIME MODE/AUTO CUE] button

[TEMPO ±6/±10/±16/WIDE] button

- You can check the auto standby function, and perform FACTORY RESET.

[Factory Reset]

- You can use when you want to reset the UTILITY settings to the factory settings.
- If [TIME MODE/AUTO CUE] button is pressed on this mode, the settings are reset to the following factory setting. When the reset is completed, "Complete" is displayed in ***** on the Touch display.

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> • [UTILITY] DJ SETTING:
EJECT / LOAD LOCK = UNLOCK
QUANTIZE BEAT VALUE = 1 beat
BEAT JUMP BEAT VALUE = 16 beat
HOT CUE AUTO LOAD = ON
HOT CUE COLOR = OFF
AUTO CUE LEVEL = MEMORY
VINYL ADJUST = TOUCH
PLAY MODE = SINGLE | <ul style="list-style-type: none"> • [UTILITY] DISPLAY (INDICATOR):
SLIP FLASHING = ON
ON AIR DISPLAY = ON
JOG BRIGHTNESS = 2
JOG INDICATOR = ON | <ul style="list-style-type: none"> • Other settings:
TIME MODE = REMAIN
AUTO CUE = OFF
JOG MODE = CDJ
MASTER TEMPO = OFF
QUANTIZE = ON |
| <ul style="list-style-type: none"> • [UTILITY] DISPLAY (LCD):
LCD BRIGHTNESS = 3
JOG LCD BRIGHTNESS = 3
LANGUAGE = <Shipment setting>
JOG DISPLAY ARTWORK = NORMAL
SCREEN SAVER = ON
TOUCH DISPLAY CALIBRATION | <ul style="list-style-type: none"> • [UTILITY] PRO DJ LINK:
PLAYER No. = AUTO
DUPLICATION = ALL
MIDI CHANNEL = 1; | |
| | <ul style="list-style-type: none"> • [UTILITY] SYSTEM :
AUTO STANDBY = ON
HISTORY NAME = "HISTORY"
DEFAULT = CANCEL | |

[Auto Standby Check]

- Auto Standby Mode is started when there is no media to play and when the operation is not performed for a certain period of time. However, you can immediately switch to Auto Standby Mode by pressing [TEMPO $\pm 6/\pm 10/\pm 16$ /WIDE] button.
- Perform one of the operations except for the following operations to return from Auto Standby Mode to normal mode.

- Exception Operator: Press [USB STOP] button
Touch or rotate JOG
Operate VINYL SPEED ADJ. TOUCH/BRAKE Knob
Operate TEMPO Slider
Switch DIRECTION FWD, REV, SLIP REV Lever

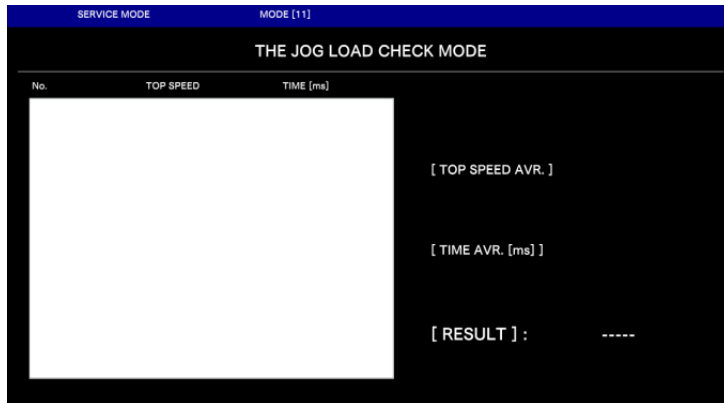
- When you need to exit this mode, turn off the power.

A [Mode 11] UPD PORT CHECK

■ How to enter the expansion page 11: THE JOG LOAD CHECK MODE

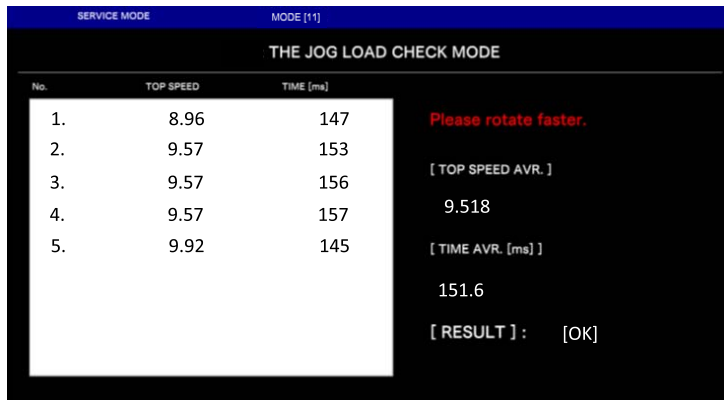
- Turn the [VINYL SPEED ADJ. TOUCH/BRAKE] knob to a maximum with any screen. (but the operators check mode is excluded)
- Turn the knob back to switch to another mode, then the current Service mode changes to THE VARIOUS INFORMATION MODE.

- Touch display



- The load (light or heavy) on the JOG dial when it is turned can be objectively judged in this mode.
- When the JOG dial is rotated swiftly in this mode, the speed is measured. Either direction, clockwise or counterclockwise, is OK. The meaning of the numerical value displayed is as follows.
 - TOP SPEED : Maximum speed given that normal speed is defined as when one rotation takes 1.8.
 - TIME : Time required for the JOG dial to slow down from 3x speed to 1.5x speed. (msec)
- To measure the time required for slowdown, the maximum speed must be 7 times normal speed or higher. If the maximum speed does not reach 7.0 times normal speed, the "Please rotate faster." is displayed as a warnig.
- When the measurement is carried out several times in a row, TIME will be displayed as an average of maximum 99 times of the measurement. This evens out the measurement value.

- EXAMPLE: The result when measured 5 times.



- You can measure up to max 99 times to calculate the average.

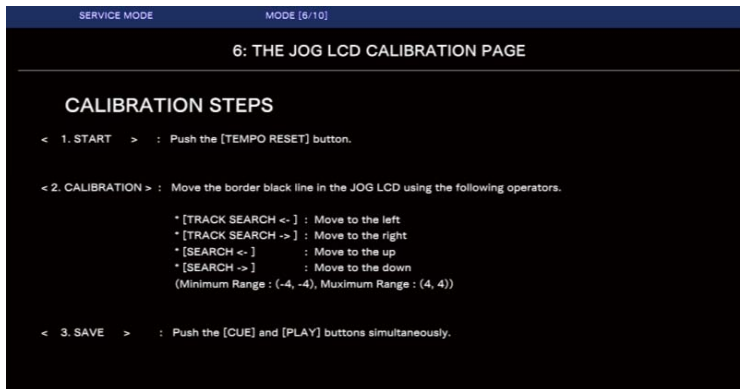
[Judgement result]

- Measure it more than 5 times in succession.
- After the fifth and subsequent measurements, if the measured time average (TIME AVR.) is within a certain range, [OK] will be displayed in the right side of "RESULT". If not, [NG] will be displayed. The judgement value for this is 170 ± 20 msec with JOG ADJUST center position.

6.2 JOG LCD CALIBRATION

- The displacement between JOG LCD and LCD Sheet is corrected in this mode.

- Touch display



[Operators List]

- ① [TRACK SEARCH ◀◀] button : Move the black line by one pixel to the left.
- [TRACK SEARCH ▶▶] button : Move the black line by one pixel to the right.
- ② [SEARCH ◀◀] button : Move the black line 1 pixel upward.
- [SEARCH ▶▶] button : Move black line 1 pixel downward.
- ③ [PLAY/PAUSE ▶/||] , [CUE] button : Save by pressing its simultaneously.
- ④ [TEMPO RESET] button : Calibration starts again by pressing it.

[Initial state]

All LEDs flash. The following is displayed on the JOG display

※ If this mode has been performed in the past, it will be displayed in the state saved previously.

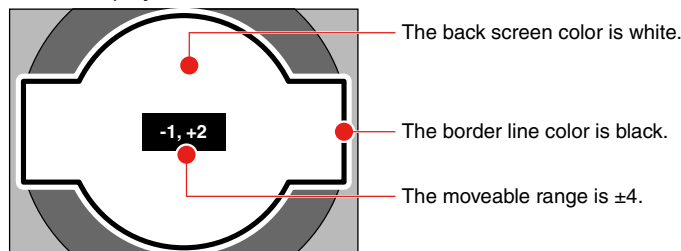
[Confirmation Procedure]

- (1) Press ④[TEMPO RESET] button.
- (2) Press buttons ① and ② to move the black line. Refer to [Operators List] for the direction of movement.
The movable range is up to 4 pixels in each direction from the initial state.
- (3) Press ③[PLAY/PAUSE ▶/||] and [CUE] buttons simultaneously, and save the result.
If the saving is completed, the LEDs of ①, ② and ③ buttons light off.

Press ④[TEMPO RESET] button, Calibration starts again. (LEDs of ①, ② and ③ buttons light on again)

※ When restarting the Calibration, it starts from the last saved state. It is the same about the position of the black line of the JOG display.

- JOG display



[Warning display when Calibration does not start]

If Calibration does not perform, JOG ring flashes in VARIOUS INFORMATION mode.

Refer to "6.1 SERVICE MODE_VARIOUS INFORMATION [Mode 1/10]".

[Confirmation method in this mode]

If LCD Calibration does not perform: JOG ring flashes (MAX brightness → OFF → MAX brightness...)

If LCD Calibration performed: JOG ring lights off

6.3 ABOUT THE DEVICE

Device Name	Function	Part No.	Ref. No.	Assy
MAIN CPU	Main CPU	R8A774A0HC01BG@V (NSP)	IC1801	MAIN Assy
FLASH (eMMC)	Memory for MAIN CPU (Firmware)	DYW**** (NSP) *1	IC2802	
LPDDR4	DRAM for MAIN CPU	K4F8E3S4HB-MFCJ	IC2401, IC2601	
PMIC	Power management IC for MAIN CPU	BD9571MWF	IC1401	
USB-B HUB	USB-B HUB (for function)	RTS5412E-GR	IC3602	
FLASH	Memory for USB-B HUB (Program)	MX25L4006EM2I-12G (NSP)	IC3603	
USB-LAN Conversion (NIC ; Network Interface Card)	Conversion IC for USB communication from USB-HUB converts LAN communication	RTL8153B-VB-CG (NSP)	IC3802	
LAN-HUB	LAN communication connect to MAIN CPU (LAN conversion on LAN terminal "LINK" or "USB-LAN Conversion")	RTL8367SB-CG	IC4001	JLCD Assy
LVDS Tx	Conversion IC for RGB signal to LVDS signal. Output to JLCD Assy.	BU8254KVT	IC4401	
LVDS Rx	Conversion IC for LVDS signal to RGB signal. Output to JOG LCD.	BU90R104	IC7005	
Digital interface (DIT)	SPDIF transmission (Digital audio output)	AK4104ET	IC5301	AUSB Assy
AUDIO DAC	Analog audio output	AK4490EQ	IC5401	
OP AMP	Low pass filter fc = 72 kHz analog audio output	NJM8801E	IC5402, IC5403	
OP AMP	Conversion IC for Balance signal into Unbalanced signal	OPA1678ID	IC5404, IC5405	MLCB Assy
LCD BACKLIGHT DRIVER	Backlight control driver for Main LCD panel	IS31BL3555-ZLS4	IC6004	
PANEL CPU	Button input, LED and Touch panel control	DYW**** *1	IC7202	
RGB LED CONTROLLER	Full-color LED control	IS31FL3236AQFLS2	IC7203	PNLB Assy

*1: **Note on DYW******

The "*****" part of the part number changes each time the firmware is updated.

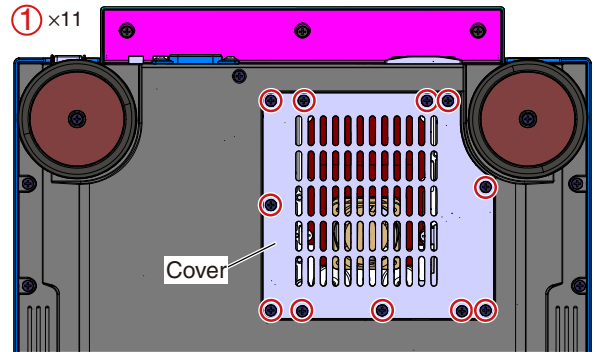
Two or more FLASH and SDRAM are mounted in this unit.
Please judge the device which you should diagnose in reference to this list.

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.

Disassembly

[1] Fan motor Section

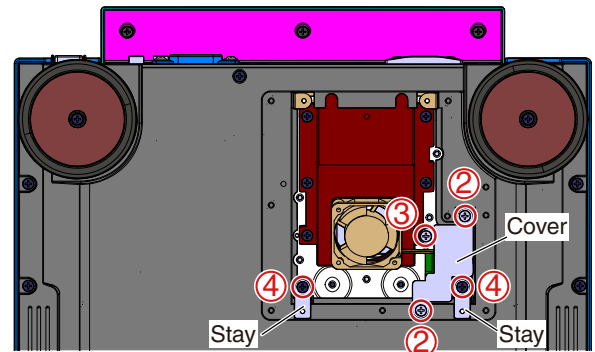
- ① Remove the 11 screws and then remove the Cover.
(BBZ30P080FTB)



• Bottom view



- ② Remove the 2 screws
(BPZ30P080FNI)
- ③ Remove the 1 screw and then remove the Cover.
(BBZ30P080FTB)
- ④ Remove the 2 screws and then remove the Stay.
(BBZ30P060FTB)



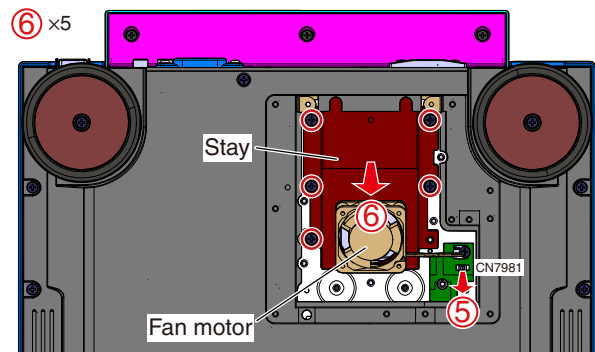
• Bottom view



- ⑤ Disconnect the 1 connector.
(CN7981)
- ⑥ Remove the 5 screws and then remove it while pulling out the Fan motor with Stay toward you.
(BBZ30P060FTB)

↓

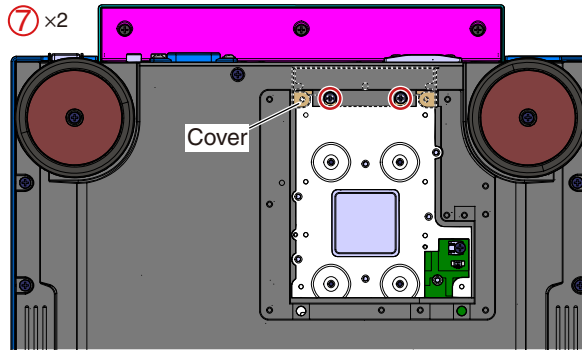
Exchange, cleaning



• Bottom view



- A ⑦ Remove the 2 screws and then remove the Cover.
(BBZ30P060FTB)
- ※ If it is necessary to remove only the Fan, this procedure is not necessary.



• Bottom view



[2] Chassis Section

※ If it is not necessary to remove FANB Assy, the procedure of "[1] Fan motor Section" is not necessary.

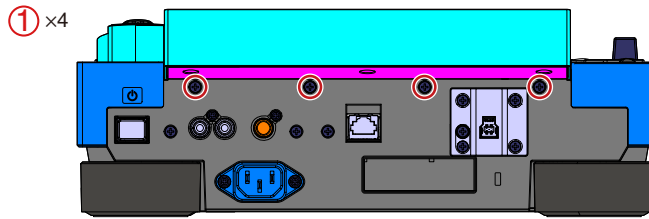
C [2-1] Control panel Section

- ① Remove the 4 screws.
(BBZ30P060FTB)

Caution :
Be sure to use the following screw at the reassembling!



BBZ30P060FTB



• Rear view

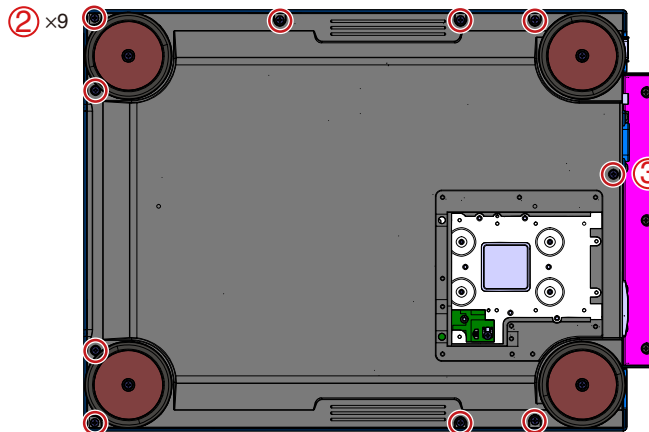


- ② Remove the 9 screws.
(BPZ30P100FTB)

Caution :
Be sure to use the following screw at the reassembling!



BPZ30P100FTB



• Bottom view



- ③ Remove the 1 screw.
(BBZ30P080FTB)
- ※ If it is necessary to remove only the Control panel Section, this procedure is not necessary.

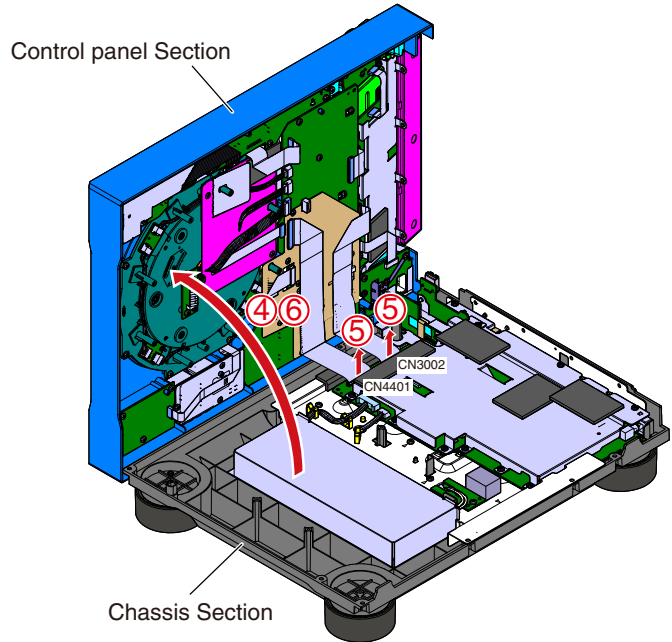
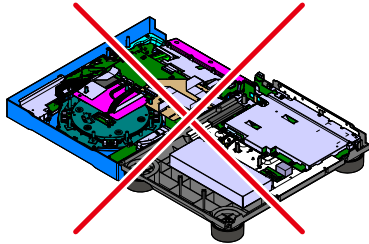
F

- ④ Open the Control panel Section in the direction of the arrow.

Caution:

The two FFCs that connect between the Control panel section and the Chassis section are short in length.

Therefore, they cannot be opened 180 degrees with the FFCs still connected.



- ⑤ Disconnect the 2 FFCs. (CN3002, 4401)

Caution:

The locking function of the connectors of CN3002, 4401 is fragile. Therefore, when locking or unlocking, it is necessary to work so that the force equally applies to both sides with both hands. Also, we need to be careful not to overpower.

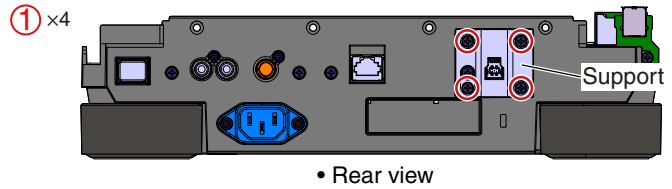
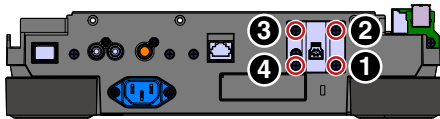
- ⑥ Remove the Control panel Section.



[2-2] Shield case

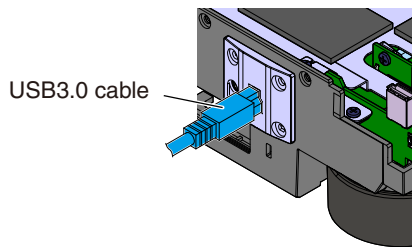
- ① Remove the 4 screws and then remove the support. (BBZ30P080FTB)

Screw tightening order

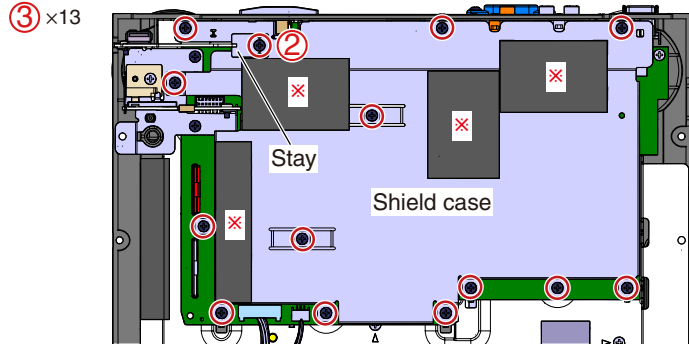


■ Notes on disassembly

USB terminal is fragile. When installing the USB terminal, insert the USB 3.0 cable into the terminal to hold it in position.



- A ② Remove the 1 screw and then remove the Stay.
(BBZ30P060FTB)
- ③ Remove the 13 screws and then remove the Shield case.
(BBZ30P060FTB)

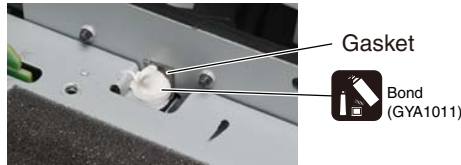


Notes ✕ :

There is a sponge for radio wave protection attached to the marked area on the Shield case. Attach a new one when replacing the Shield case.

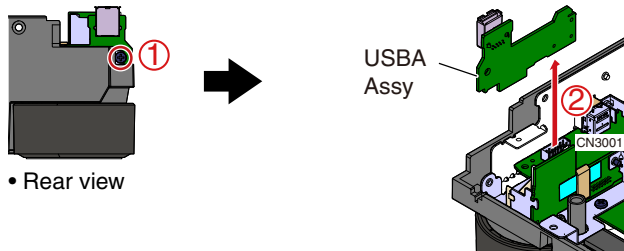
Notes on disassembly

Confirm that the gasket affixed to the shield case is placed between USB terminal and the Shield case. And, apply the bond after reassembling.

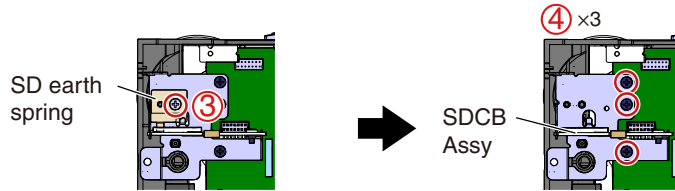


[2-3] USBA and SDCB Assemblies

- ① Remove the 1 screw.
(BBZ30P060FTB)
- ② Disconnect the BtoB connector and then remove the USBA Assy.
(CN3001)

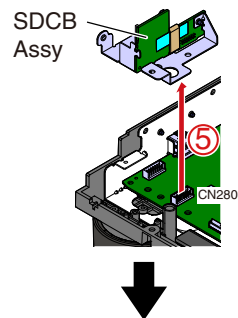


- ③ Remove the 1 screw and then remove the SD earth spring.
(BPZ30P080FNI)
- ④ Remove the 3 screws.
(BBZ30P060FTB)
- ⑤ Disconnect the BtoB connector and then remove the SDCB Assy with the Stay.
(CN2801)



Notes on disassembly

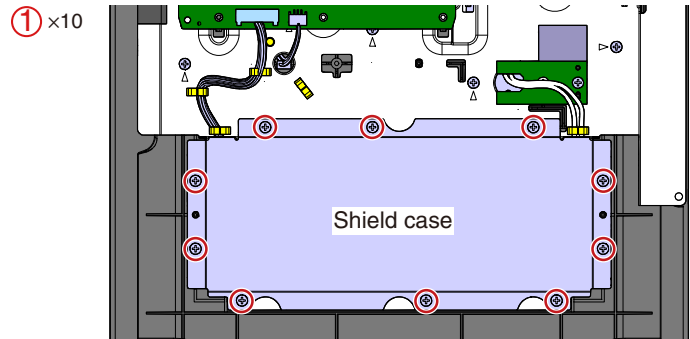
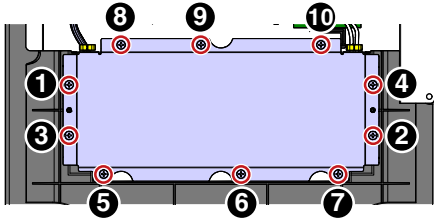
If SDCB Assy is replaced, fix Ferrite Clamper with acetate tape as shown below.



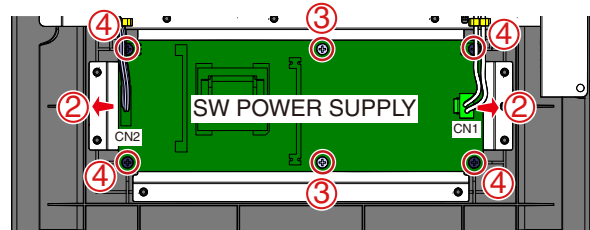
[2-4] SW POWER SUPPLY

- Remove the 10 screws and then remove the Shield case.
(BPZ30P080FNI)

Screw tightening order

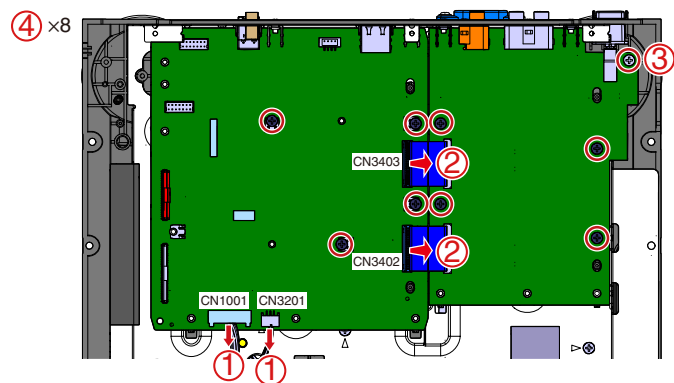


- Disconnect the 2 connectors.
(CN1, 2)
- Remove the 2 screws.
(BPZ30P080FNI)
- Remove the 4 screws and then remove the SW POWER SUPPLY.
(BBZ30P060FTB)

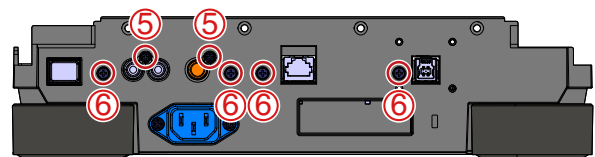


[2-5] MAIN and AUDB Assemblies

- Disconnect the 2 connectors.
(CN1001, 3201)
- Disconnect the 2 bridge connectors.
(CN3402, 3403)
- Remove the 1 screw.
(BPZ30P080FNI)
- Remove the 8 screws.
(BBZ30P060FTB)

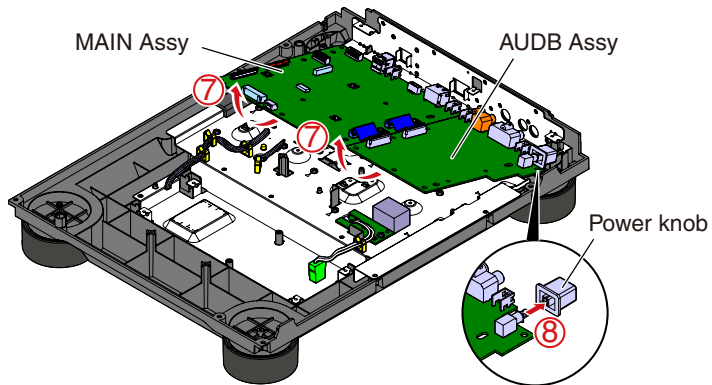


- Remove the 2 screws.
(PPZ30P080FTB)
- Remove the 4 screws.
(BBZ30P060FTB)



• Rear view

- A ⑦ Remove it while pulling out the MAIN and AUDB Assys toward you.
- ⑧ Remove the Power knob.

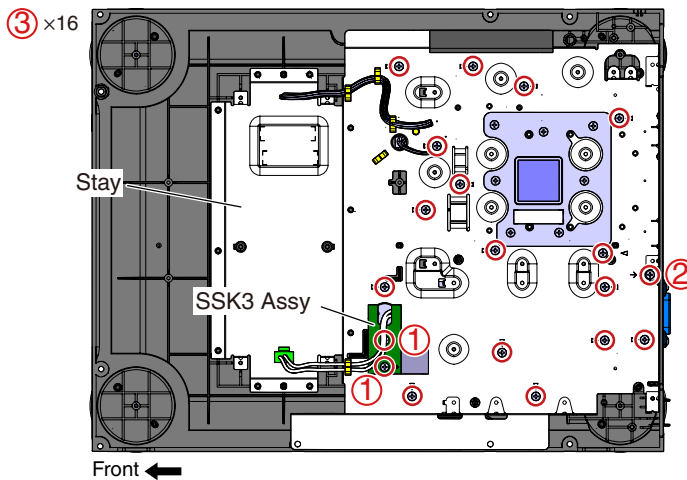


B



[2-6] FANB Assy

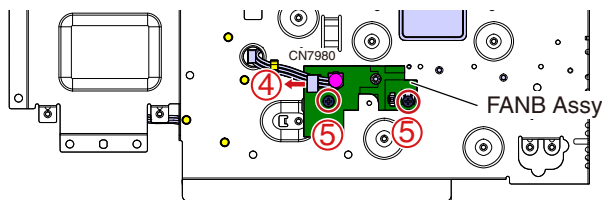
- C ① Remove the 2 screws and then remove the SSK3 Assy. (BPZ30P080FNI)
- ② Remove the 1 screw. (BBZ30P080FTC)
- ③ Remove the 16 screws and then remove the Stay. (BPZ30P080FNI)



D



- E ④ Disconnect the 1 connector. (CN7980)
- ⑤ Remove the 2 screws and then remove the FANB Assy. (BPZ30P080FNI)

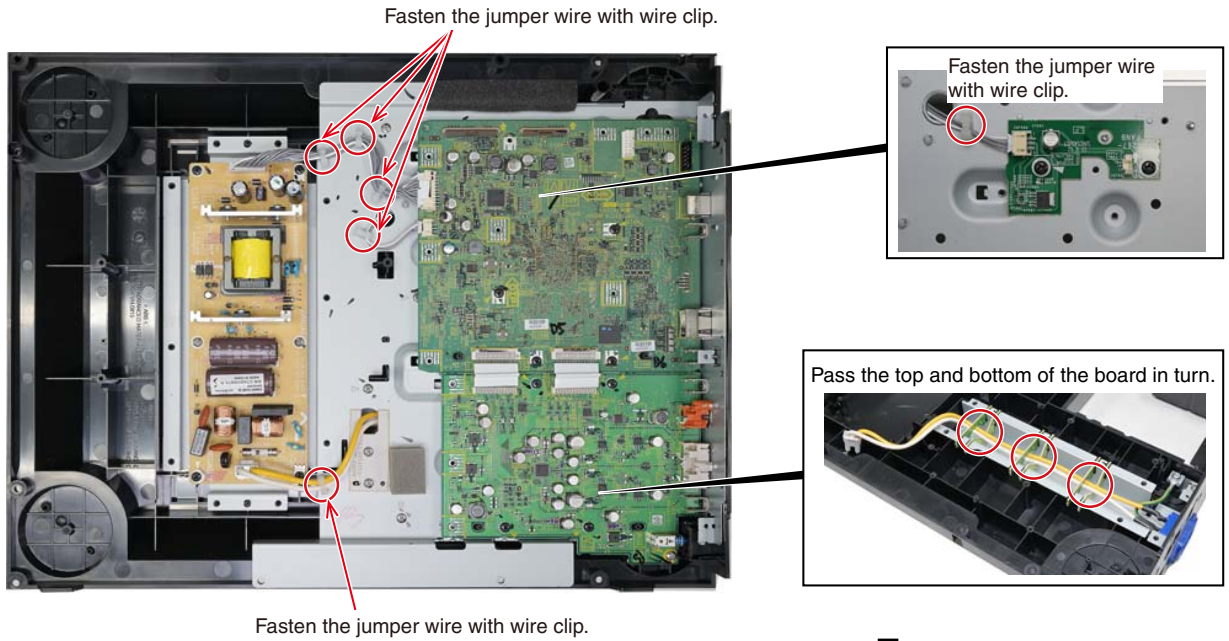


E



F

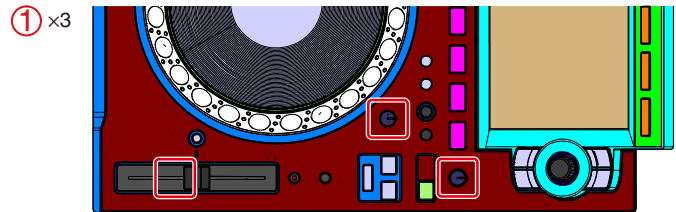
■ Jumper wires styling



[3] Control panel Section

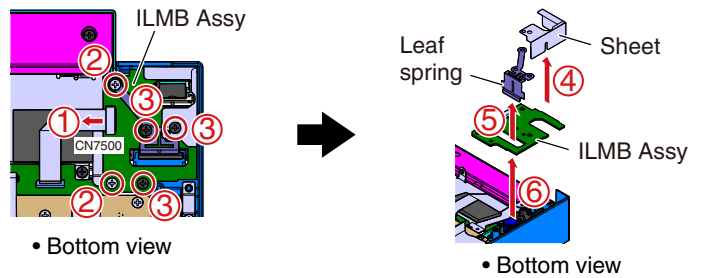
[3-1] Knobs

- ① Remove the all knobs.

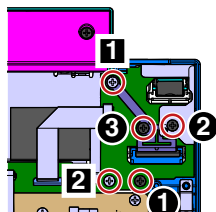


[3-2] ILMB Assy

- ① Disconnect the 1 FFC. (CN7500)
- ② Remove the 2 screws. (BBZ30P080FTC)
- ③ Remove the 3 screws. (BPZ30P100FTB)
- ④ Remove the Sheet.
- ⑤ Remove the Leaf spring.
- ⑥ Remove the ILMB Assy.



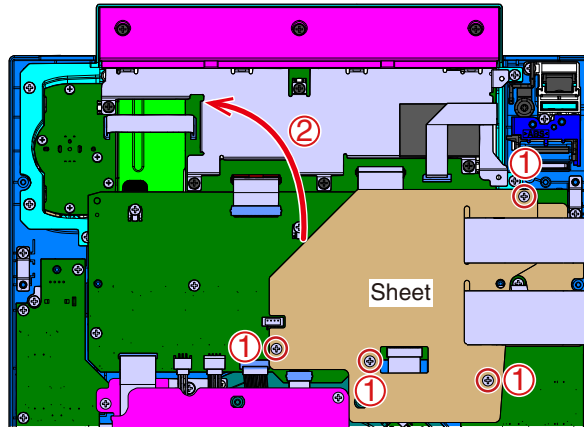
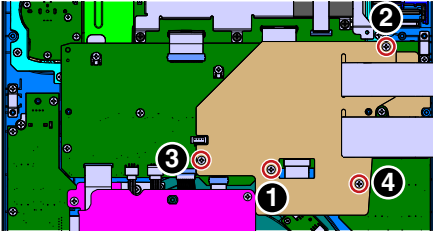
Screw tightening order



A [3-2] Barrier

- ① Remove the 4 screws.
(BPZ30P080FNI)
- ② Open the Sheet direction arrow.

Screw tightening order



• Bottom view



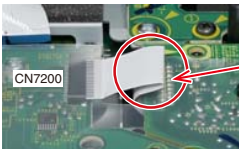
- ③ Disconnect the 2 FFCs.
(CN6002, 7202)

Caution:

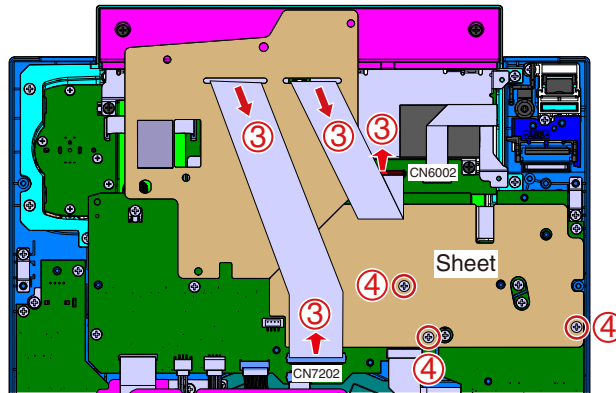
The locking function of the connectors of CN6002, 7202 is fragile. Therefore, when locking or unlocking, it is necessary to work so that the force equally applies to both sides with both hands. Also, we need to be careful not to overpower.

- ④ Remove the 3 screws and then remove the Sheet.
(BPZ30P080FNI)

FFC styling



FFC placed on the Sheet

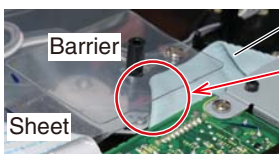


• Bottom view



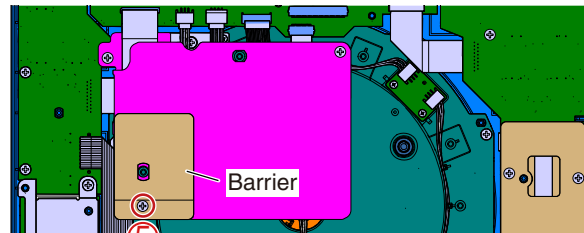
- ⑤ Remove the 1 screw and then remove the Barrier.
(BPZ30P080FNI)

Jumper wires styling



Flat cable jumper

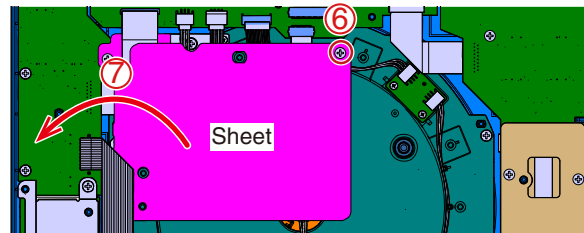
Flat cable jumper is placed between the barrier and the sheet.



• Bottom view



- ⑥ Remove the 1 screw.
(BPZ30P080FNI)
- ⑦ Open the Sheet direction arrow.



• Bottom view



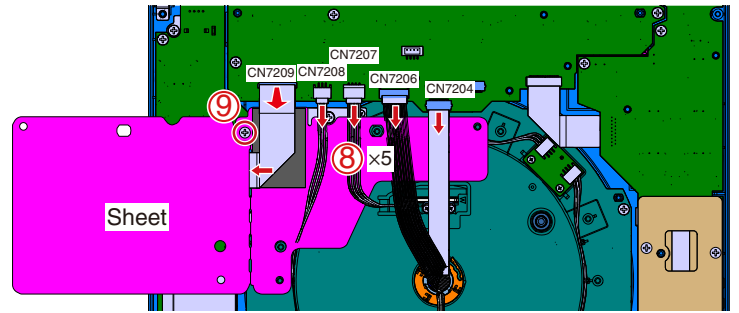
- ⑧ Disconnect the 2 FFCs and 3 connectors.
(CN7204, 7206-7209)

Caution:

The locking function of the connectors of CN7204 is fragile. Therefore, when locking or unlocking, it is necessary to work so that the force equally applies to both sides with both hands.

Also, we need to be careful not to overpower.

- ⑨ Remove the 1 screw and then remove the Sheet.
(BPZ30P080FNI)



• Bottom view

[3-3] PNLB Assy

- ① Disconnect the 3 FFCs.
(CN7200, 7201, 7205)

Caution:

The locking function of the connectors of CN7205 is fragile. Therefore, when locking or unlocking, it is necessary to work so that the force equally applies to both sides with both hands.

Also, we need to be careful not to overpower.

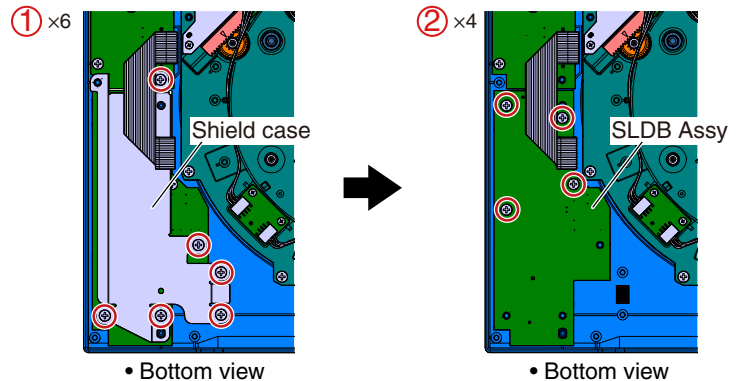
- ② Remove the 3 screws.
(BPZ30P080FNI)
- ③ Remove the 3 screws and then remove the PNLB Assy.
(BBZ30P080FTC)



• Bottom view

[3-4] SLDB Assy

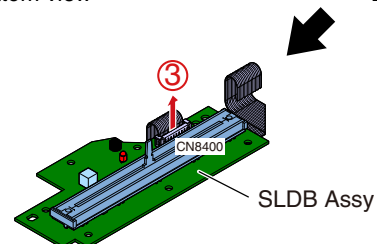
- ① Remove the 6 screws and then remove the Shield case.
(BPZ30P080FNI)
- ② Remove the 4 screws and then remove the SLDB Assy.
(BPZ30P080FNI)



• Bottom view

• Bottom view

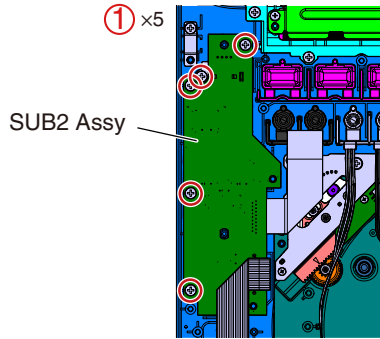
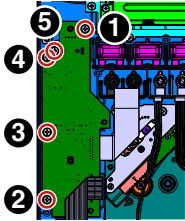
- ③ Disconnect the 1 connector.
(CN8400)



A [3-5] SUB2 Assy

- ① Remove the 5 screws and then remove the SUB2 Assy. (BPZ30P080FNI)

Screw tightening order



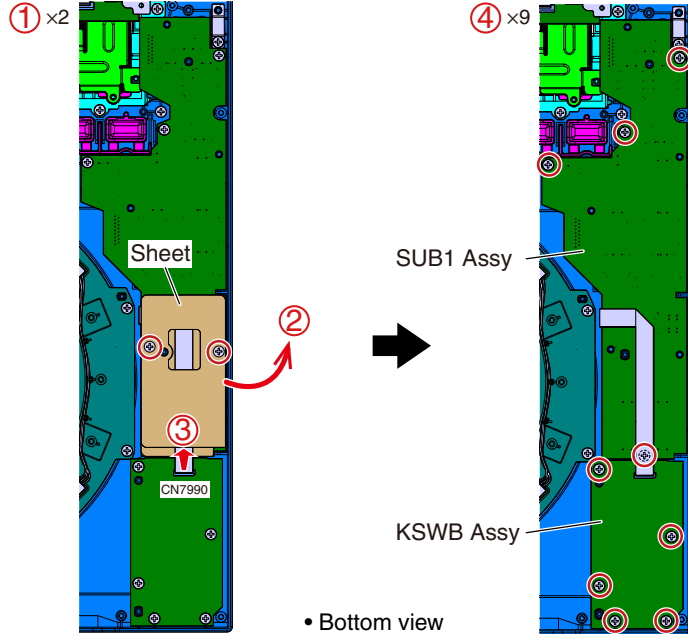
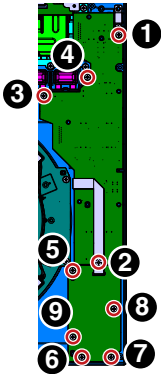
• Bottom view



B [3-6] SUB1 and KSWB Assemblies

- ① Remove the 2 screws. (BPZ30P080FNI)
- ② Remove the Sheet direction arrow.
- ③ Disconnect the 1 FFC. (CN7990)
- ④ Remove the 9 screws and then remove the SUB1 and KSWB Assemblies. (BPZ30P080FNI)

Screw tightening order

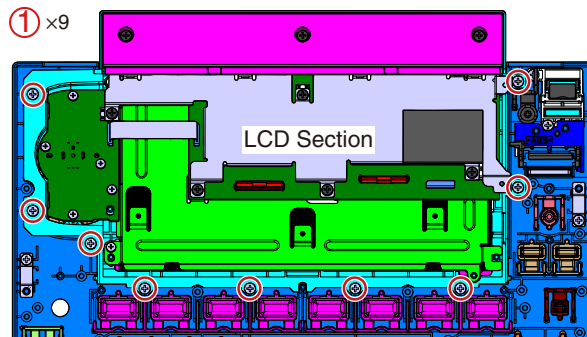


• Bottom view



C [3-7] LCD Section

- ① Remove the 9 screws and then remove the LCD Section. (BPZ30P080FNI)



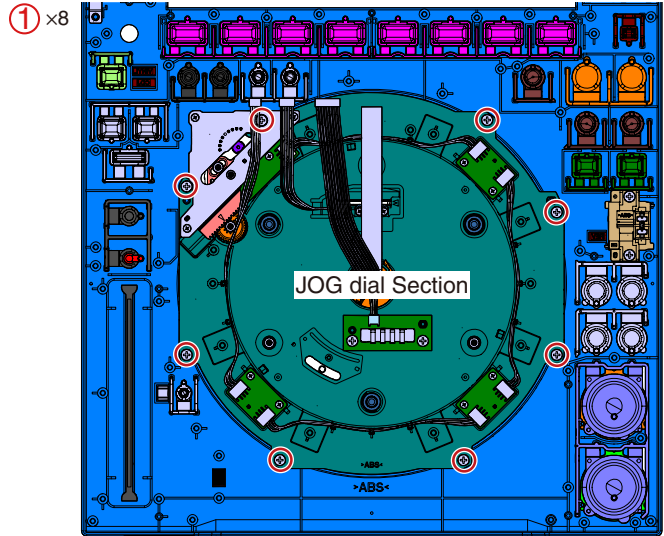
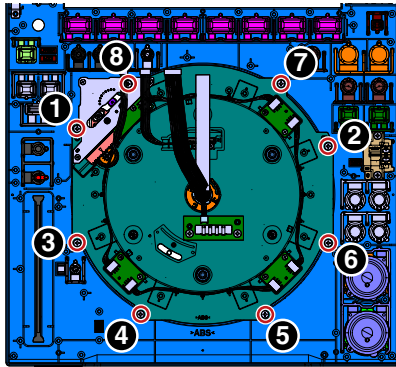
• Bottom view



[3-8] JOG dial Section

- ① Remove the 8 screws and then remove the JOG dial Section.
(BPZ30P080FNI)

Screw tightening order

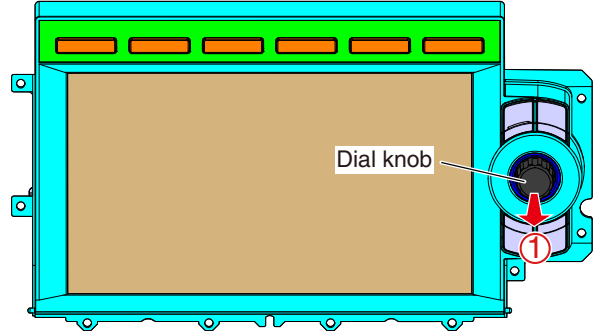


• Bottom view

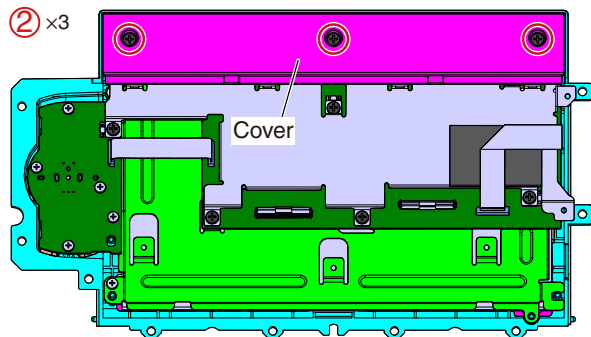
[4] LCD Section

[4-1] Exterior parts

- ① Remove the Dial knob.

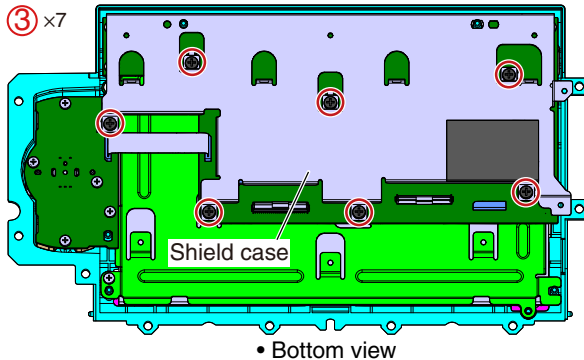


- ② Remove the 3 screws and then remove the Cover.
(BBZ30P060FTB)



• Bottom view

A ③ Remove the 7 screws and then remove the Shield case.
(BBZ30P060FTB)



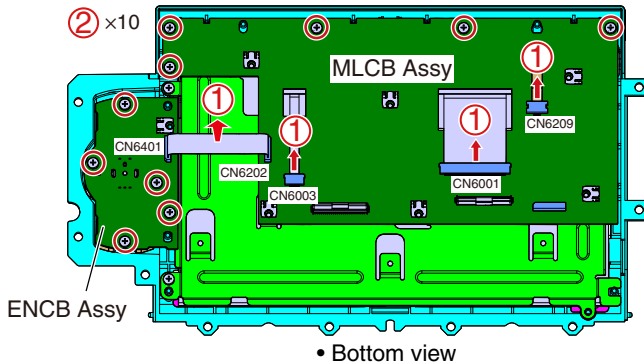
[4-2] MLCB and ENCB Assemblies

① Disconnect the 4 FFCs.
(CN6001, 6003, 6202, 6209)

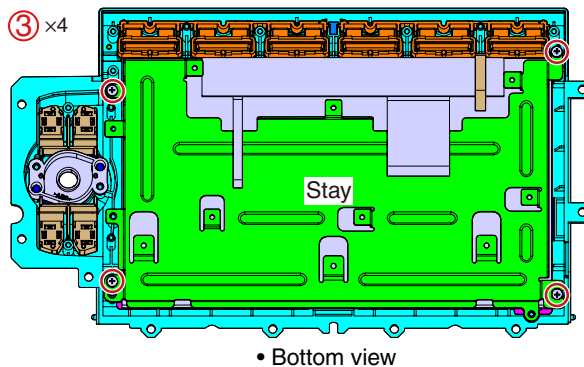
Caution:

The locking function of the connectors of CN6001 is fragile. Therefore, when locking or unlocking, it is necessary to work so that the force equally applies to both sides with both hands. Also, we need to be careful not to overpower.

② Remove the 10 screws and then remove the MLCB and ENCB Assemblies.
(BPZ26P080FTC)

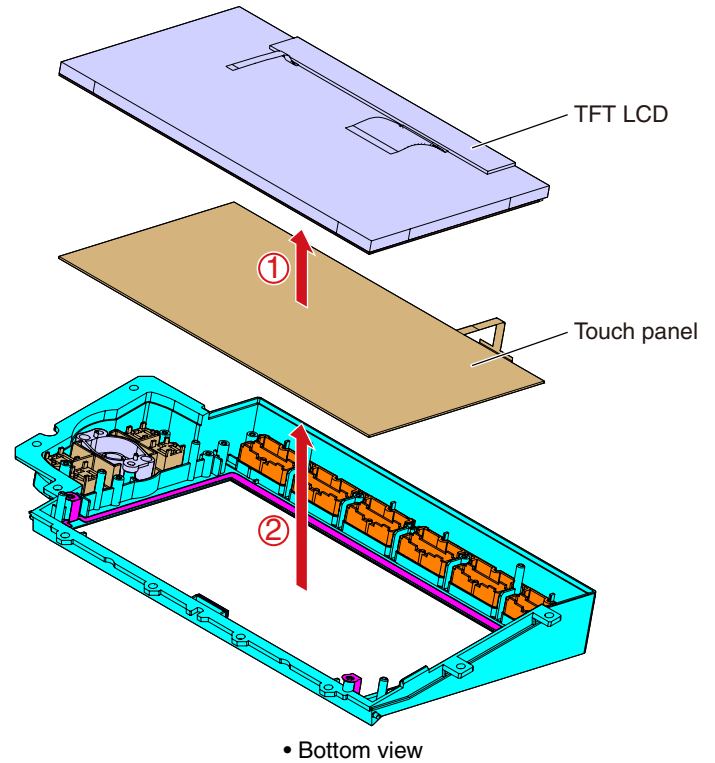


D ③ Remove the 4 screws and then remove the Stay.
(BPZ26P080FTC)



[4-3] TFT LCD and Touch panel

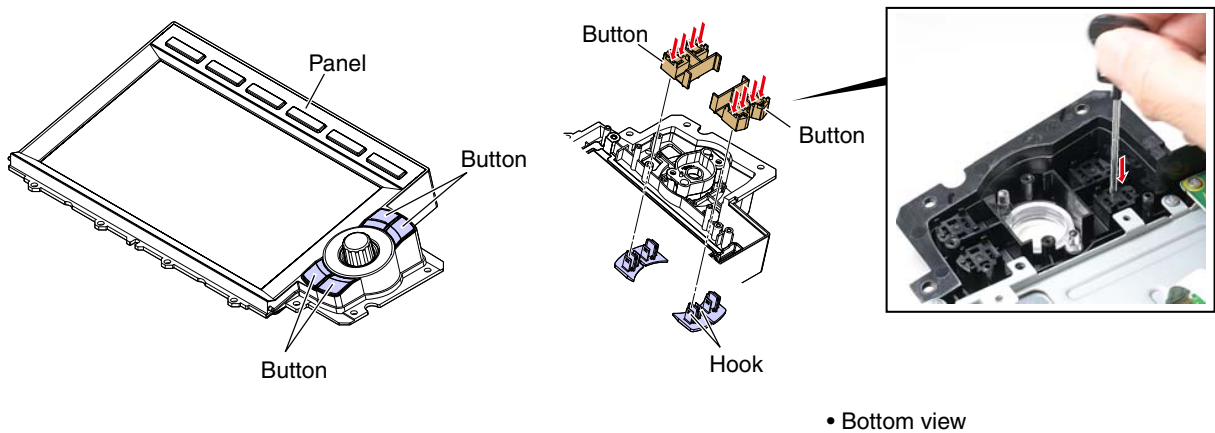
- ① Remove the TFT LCD.
- ② Remove the Touch panel.



■ Notes on disassembling buttons

As shown below, 4 buttons on the panel are fixed 2 buttons from the bottom side. (A button has 2 hooks.)

When disassembling it, put off the hook by using a thin rod or the like. In addition, the hook is fragile so please be careful.



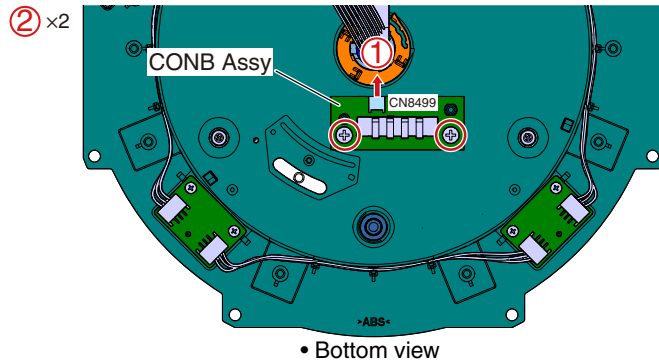
A [5] JOG dial Section

[5-1] CONB Assy

- ① Disconnect the 1 connector. (CN8499)
- ② Remove the 2 screws and then remove the CONB Assy. (BPZ30P080FNI)

Caution:

Do not place CONB Assy downward because Earth spring of CONB Assy will be deformed.



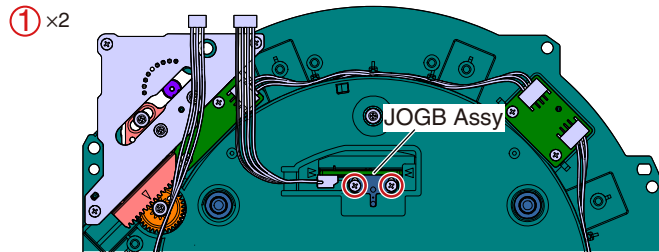
• Bottom view



B

[5-2] JOGB Assy

- ① Remove the 2 screws and then remove the JOGB Assy. (BPZ20P060FTC)

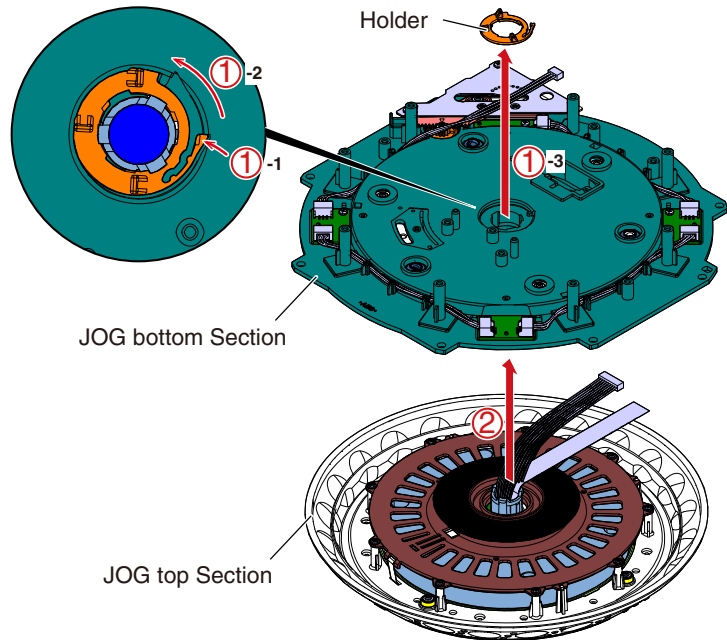


• Bottom view



D [5-3] Each JOG Section

- ① Unhook the hook and then remove it while turn the Holder counterclockwise direction.
- ② Divide into the JOG top Section and JOG bottom Section.



JOG bottom Section

JOG top Section

• Bottom view



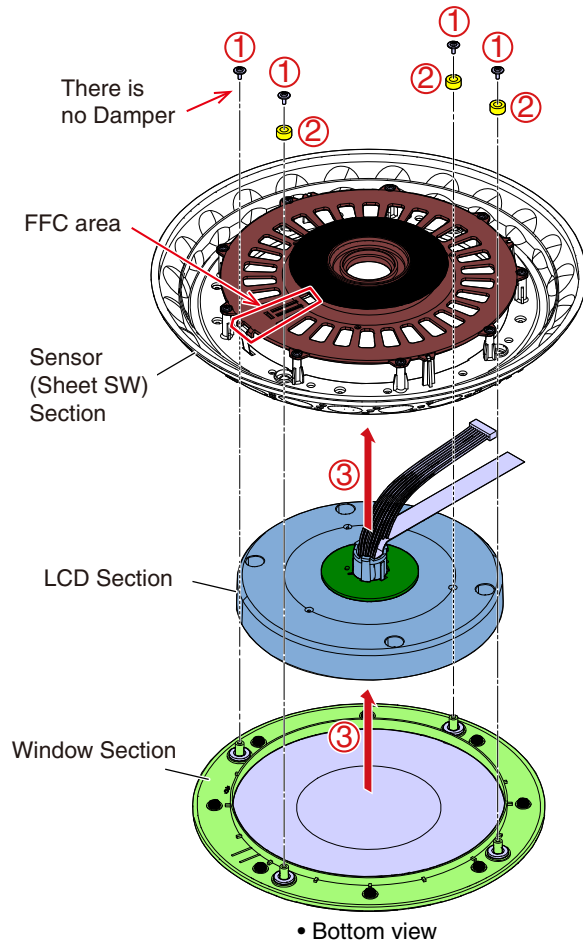
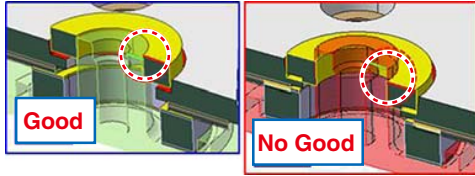
F

[5-4] JOG top Section

- ① Remove the 4 screws.
(DBA1265)
- ② Remove the 3 Dampers.
- ③ Divide into the Window Section, LCD Section, and Sensor (Sheet SW) Section.

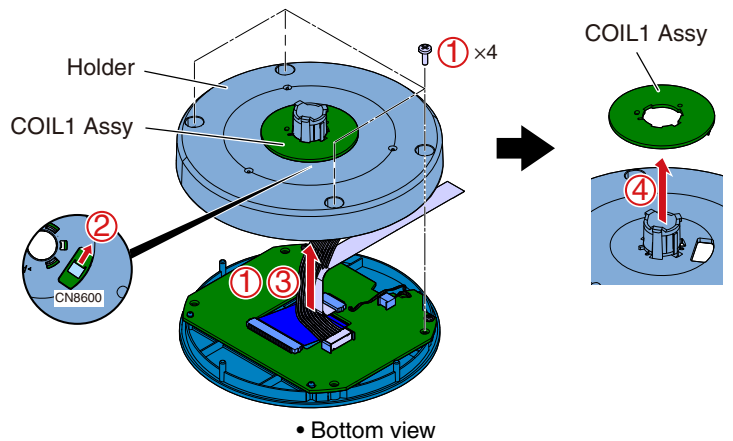
■ Notes on disassembly

When installing the dumper, the ribs on the base should not protrude.



[5-5] COIL1 Assy

- ① Remove the 4 screws and then remove the Holder.
- (BPZ30P080FNI)
- ② Disconnect the 1 connector.
- (CN8600)
- ③ Completely remove the Holder.
- ④ Remove the COIL1 Assy.



A [5-6] JLCD Assy and LCD Service Assy

- ① Disconnect the 1 FPC. (CN7004)

Caution:

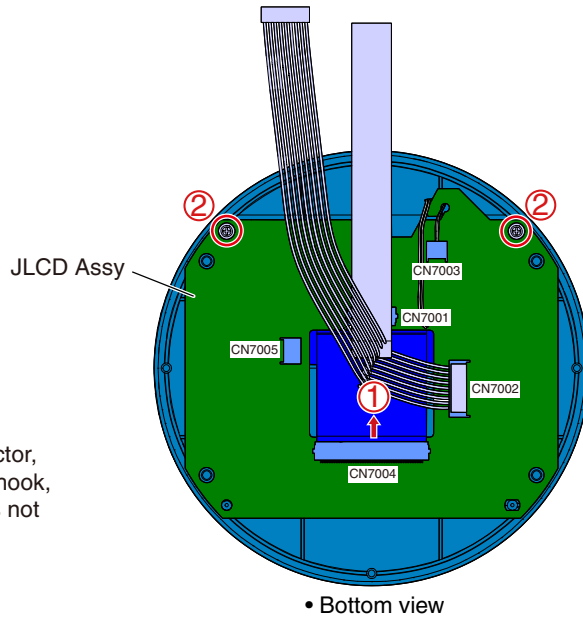
The locking function of the connectors of CN7001, 7004 is fragile. Therefore, when locking or unlocking, it is necessary to work so that the force equally applies to both sides with both hands. Also, we need to be careful not to overpower.

- ② Remove the 2 screws. (IPZ20P060FTC)

B Jumper wires styling



After connecting to the connector, through the wire to the board hook, and make that the wiring does not move in the product.



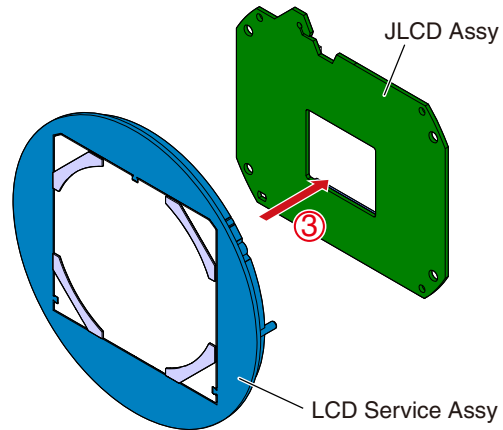
• Bottom view

C



- ③ Divide into the JLCD Assy and LCD Service Assy.

D

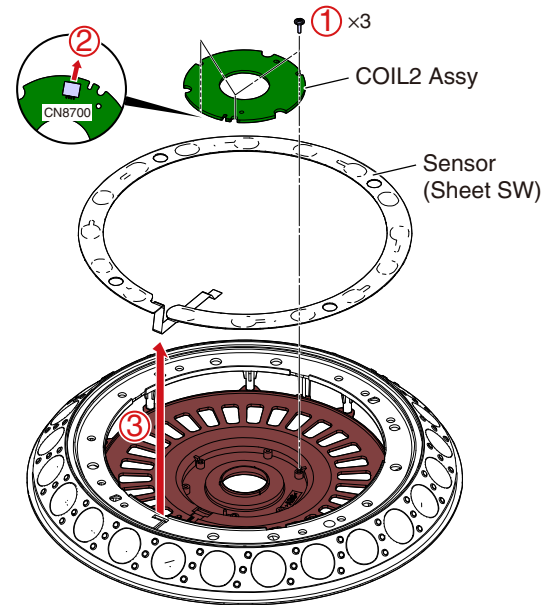


E

F

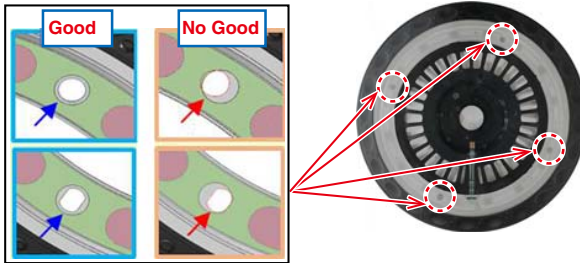
[5-7] COIL2 Assy and Sensor (Sheet SW)

- ① Remove the 3 screws and then remove the COIL2 Assy.
(IPZ20P060FTC)
- ② Disconnect the 1 connector.
(CN8700)
- ③ Remove the Sensor (Sheet SW).

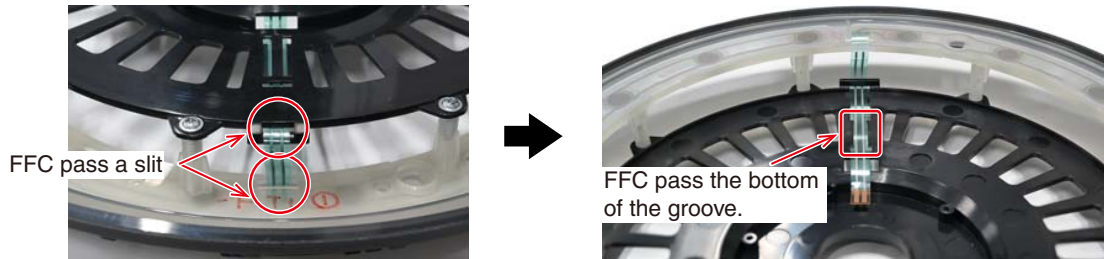


■ The installation position of Sensor (Sheet SW)

Install it so that the holes in Jog Dial and Sensor (Sheet SW) are aligned.

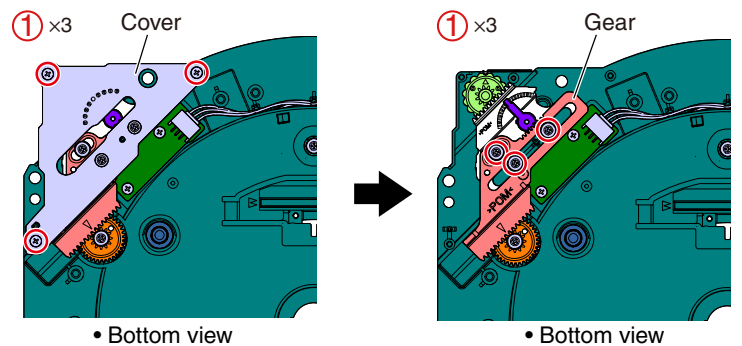


■ Sensor (Sheet SW) styling

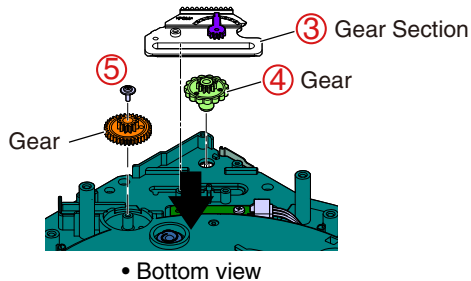


[5-8] Gear Section

- ① Remove the 3 screws and then remove the Cover.
(BPZ20P060FTC)
- ② Remove the 3 screws and then remove the Gear.
(DBA1265)



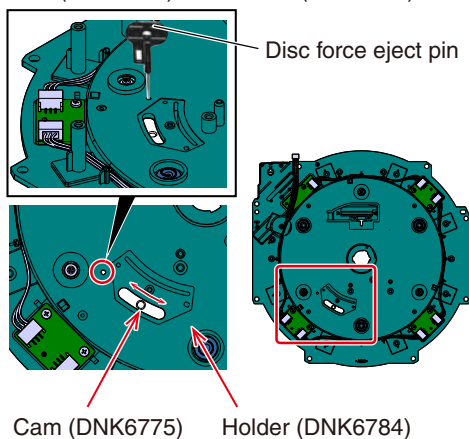
- A ③ Remove the Gear Section.
- ④ Remove the Gear.
- ⑤ Remove the 1 screw and then remove the Gear.
(DBA1265)



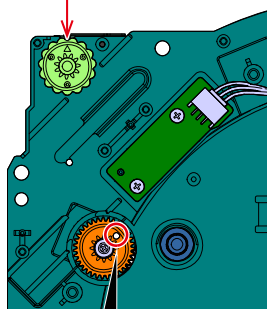
B

■ The procedure for positioning the gear

Adjust the positioning holes of Cam (DNK6775) and Holder (DNK6784).



Align to "△" mark.

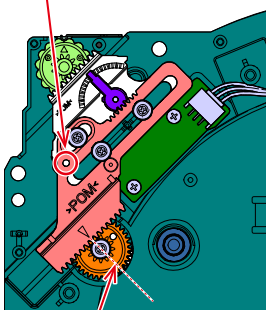
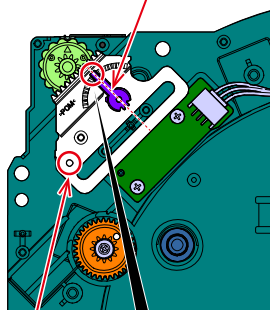


C

D

Align to the center of the scale.

Positioning hole



Positioning hole

Mark to the scale part.



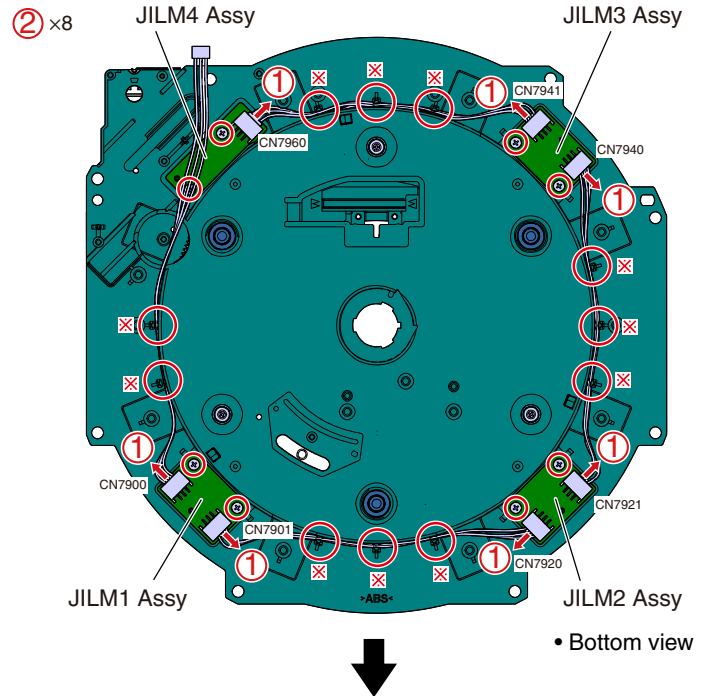
E

F



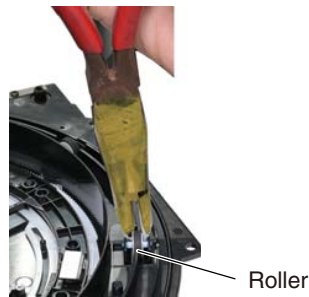
[5-9] JILM1 to 4 Assemblies

- ① Disconnect the all connectors.
(CN7900, 7901, 7920, 7921, 7940, 7941, 7960)
 - ② Remove the 8 screws and then remove the JILM1 to 4 Assemblies.
(BPZ20P060FTC)
- ※ Put in the jumper wire to the slit, and secure it at the reassembling.



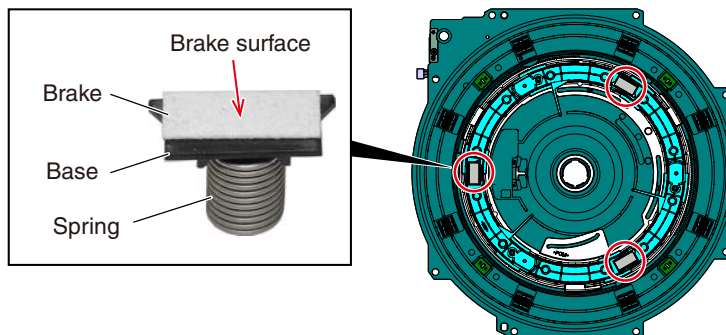
■ About the roller

The part to which the rollers are attached has been changed from the slit type to the hole type. When removing or reassembling, be careful not to damage that part. If the pliers are modified and worked on as shown below, they are easy to disassemble or reassemble.



■ About the brake

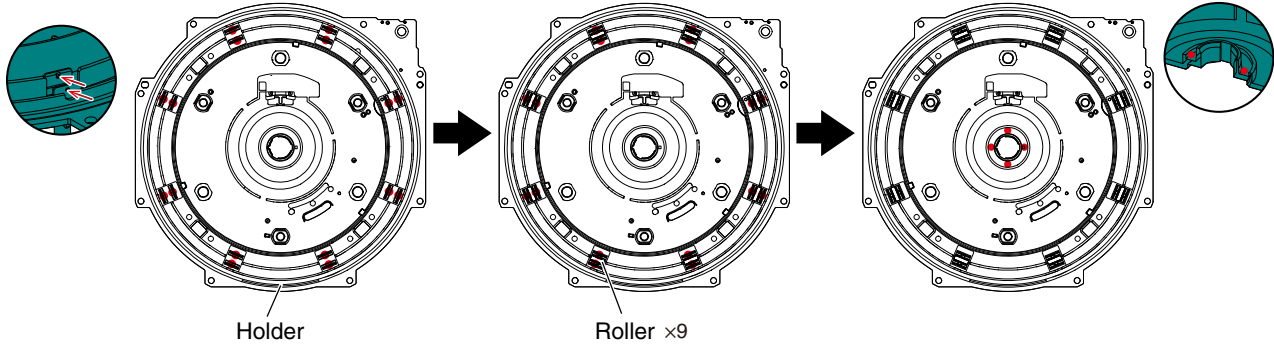
Be careful of the slowdown due to the Brake removal. Confirm that the Brake is properly applied, that there is no lifting, and that the brake surface is clean. Clean the brake surface as necessary.



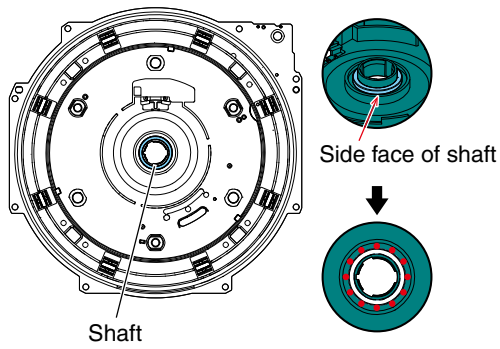
A Locations of grease application

[Jog dial Section]

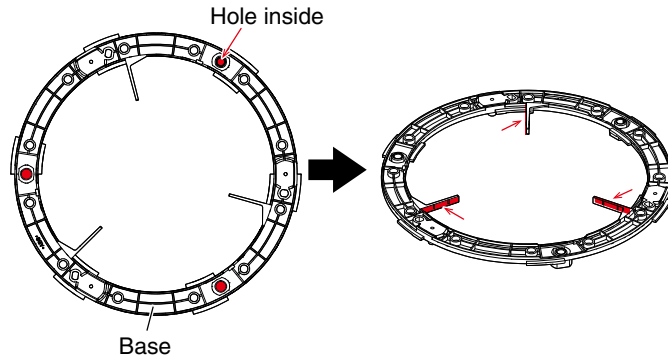
- Holder



- Shaft

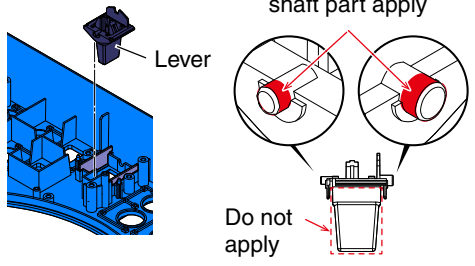


- Base



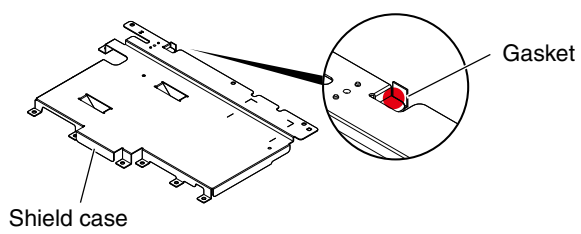
[Control panel Section]

- Lever



[Chassis Section]

- Shield case



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 are replaced.

- | | | | |
|---|---|--|---|
| <ul style="list-style-type: none"> • PCB Assy (IC) storing firmware and utility settings
MAIN Assy (FLASH (eMMC): IC2802*NSP) | ➡ | <ul style="list-style-type: none"> • Confirmation of the version of the firmware • Updating to the latest version of the firmware (8.2 UPDATING OF THE FIRMWARE) • JOG LCD calibration (6.2 JOG LCD CALIBRATION) • Service mode_Fan operation check (6.1 SERVICE MODE_[Mode 7/10] FAN OPERATION CHECK PAGE) • Service mode_Thermometer check (6.1 SERVICE MODE_[Mode 8/10] THERMOMETER CHECK PAGE) • Writing the serial number of the unit (8.3 WRITING THE SERIAL NUMBER OF THE UNIT) | A |
| <ul style="list-style-type: none"> • PCB Assy (IC) storing firmware
PNLB Assy (PANEL CPU: IC7202) | ➡ | <ul style="list-style-type: none"> • Confirmation of the version of the firmware • Updating to the latest version of the firmware (8.2 UPDATING OF THE FIRMWARE) | B |
| <ul style="list-style-type: none"> • JOG dial section component part | ➡ | <ul style="list-style-type: none"> • Confirmation of the specified value by JOG dial Rotation Time measurement mode
When measuring, connect JOG dial and the product with 4P extension cable.
After the product is reassembled, the JOG dial load measurement is performed again to confirm that there are no problems.
(8.4 JOG DIAL ROTATION LOAD ADJUSTMENT) | C |
| <ul style="list-style-type: none"> • JOGB Assy | ➡ | <ul style="list-style-type: none"> • Confirmation that contains scale in slit of Photointerrupter after the JOGB Assy is reassembled
Service mode_JOG ROTATION FWD/REV check (6.1 SERVICE MODE_[Mode 4/10] CHECK MODE OF OPERATORS) | D |
| <ul style="list-style-type: none"> • JOG LCD Service Assy
(It is performed when the JOG LCD is disassembled or reassembled, whether or not JOG LCD has been replaced.) | ➡ | <ul style="list-style-type: none"> • JOG LCD calibration (6.2 JOG LCD CALIBRATION) | E |
| <ul style="list-style-type: none"> • Fan motor | ➡ | <ul style="list-style-type: none"> • Service mode_Fan operation check (6.1 SERVICE MODE_[Mode 7/10] FAN OPERATION CHECK PAGE) • Service mode_Thermometer check (6.1 SERVICE MODE_[Mode 8/10] THERMOMETER CHECK PAGE) | F |
| <ul style="list-style-type: none"> • FANB Assy | ➡ | <ul style="list-style-type: none"> • Service mode_Fan operation check (6.1 SERVICE MODE_[Mode 7/10] FAN OPERATION CHECK PAGE) • Service mode_Thermometer check (6.1 SERVICE MODE_[Mode 8/10] THERMOMETER CHECK PAGE) | G |
| <ul style="list-style-type: none"> • Tempo slider VR: VR8400 | ➡ | <ul style="list-style-type: none"> • TEMPO ZERO POINT ADJUSTMENT (8.5 TEMPO ZERO POINT ADJUSTMENT) | H |
| <ul style="list-style-type: none"> • Touch panel | ➡ | <ul style="list-style-type: none"> • Service mode_Confirmation of the Touch panel (6.1 SERVICE MODE_[Mode 5/10] TOUCH PANEL CHECK) | I |

8.2 UPDATING OF THE FIRMWARE

A ■ Downloading and Unzipping the Updater File

- ① Download the zipped firmware file for the latest firmware.
- ② Unzip the CDJ3K_v***.zip file to get the updater file.
CDJ3K_v***.UPD

- ※ The above xxx denotes the version of new firmware.
- ※ The extension (.upd) may not be displayed, depending on the setting of the computer.

■ Preparation for Updating

- B Save the firmware file [CDJ3K_v***.UPD] to the root directory of USB memory.
- ※ DO NOT rename the file name.
 - ※ DO NOT save the multiple firmware files in the USB memory.
 - ※ Please use USB memory formatted by FAT/FAT32. It does not correspond to HFS+.

■ How to Update



- D
- ① Enter Update mode.
While holding the LOOP IN/CUE (IN ADJUST) and LOOP RELOOP/EXIT buttons pressed, press the ⏻ button (to set it to ON).
When "Connect USB storage device into top USB port." is displayed, release the button.

- E
- ② Plug a USB memory device to use for updating into the USB slot.

- ③ Updating starts.
At the same time, the current version and the updated version are displayed.

- ※ NEVER unplug the USB memory device nor turn the unit OFF during updating.

- ④ When "Firmware update is complete. Turn the power off/on before using." is displayed, set the power to off.
After confirming that the firmware has been updated, remove the update USB memory.

Updating is completed.

If updating does not start or "MAIN update file is corrupt." is displayed, the file may be corrupted.

- F Restart from downloading of an updater.

If updating cannot be started even after the above retry, the USB memory device may be faulty. Retry updating, using another USB memory device.

8.3 WRITING THE SERIAL NUMBER OF THE UNIT

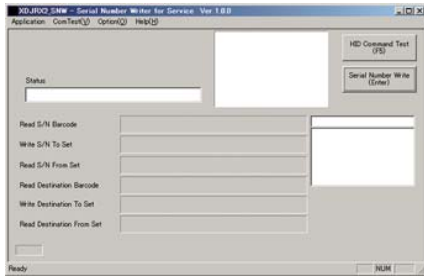
Writing the serial number can be performed from a PC that is connected with this unit via a USB B cable.

Preparations

- ① Download the software for writing the serial number from Niis.
- ② The compressed files decompress and save to PC.
The generated folder is below.
 - Ini folder
 - Log folder
 - CDJ3000.SNW.exe
 - hidcom.dll

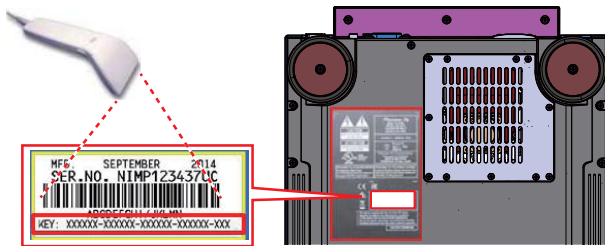
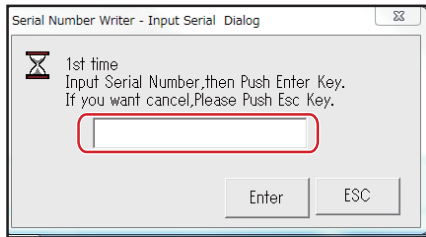
Procedure

- ① Turn on PC, and click "CDJ3000.SNW.exe" in the generated folder. When the software is started, untick "Label print".



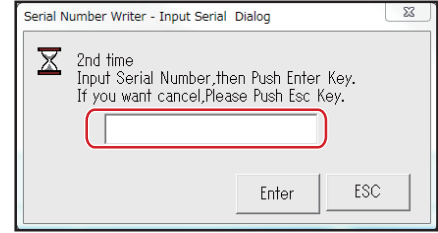
- ② Connect the unit with a PC via a USB B cable.
- ③ While holding the TEMPO ±6/±10/±16/WIDE and CUE/LOOP CALL ◀ buttons pressed, press the ⏻ button to turn the unit on.
(Start up the unit in Service mode.)
- ④ Push [Serial Number Write] button, display serial input dialog (first time).

Enter serial number by handwork or barcode reader, and push "Enter".
 If enter by handwork, enter " " before serial number.
 (If forgot, displayed error)
 If enter by barcode reader, need to connect for PC in advance.



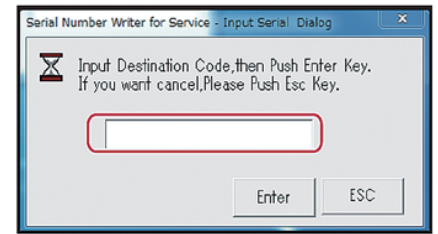
*Reference screen

- ⑤ Again display serial input dialog (second time), enter serial number by handwork or barcode reader, and push "Enter" like Step ④.



- ⑥ Dialog is displayed for the input of Destination Code, you need to enter in accordance with following table.

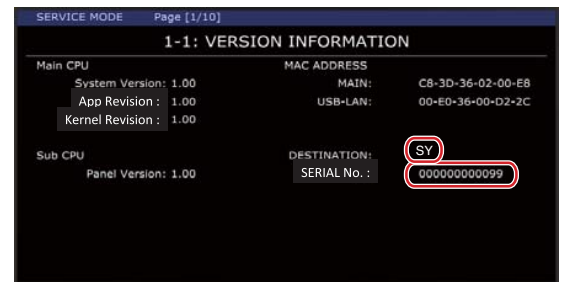
Model Name	Input Destination Code	DESTINATION
CDJ-3000/LSYXJ	CDJ-3000/L	SY
CDJ-3000/AXJ	CDJ-3000/A	A
CDJ-3000/UXJCB	CDJ-3000/U	CU
CDJ-3000-W/PXJ	CDJ-3000-W/L	SY
CDJ-3000-W/AXJ	CDJ-3000-W/A	A
CDJ-3000-W/UXJCB	CDJ-3000-W/U	CU



- ⑦ If update is finished correctly, display "OK" after a while.

This is completed about to write serial number for system.
 You need to confirm by Service mode about to write correctly.

The unit is already starting in Service mode [Mode 1/10] VERSION INFORMATION. Confirm that "DESTINATION" is "SY" (ex: LSYXJ model) and "SERIAL No" is the same as the serial number of the unit.



8.4 JOG DIAL ROTATION LOAD ADJUSTMENT

- A When performing the Jog dial rotation load adjustment, after removing it, connect PNLB Assy and JOGB Assy with 4P extension cable before performing the adjustment.
(Detail is refer to "1.3 SERVICE NOTICE_ About Jog dial rotation load adjustment".)

Measurement content

The time required for the JOG dial to decrease its rotation speed from 3 times to 1.5 times normal speed will be measured. If the maximum speed does not reach 7 times normal speed, measurement will not be performed.

Indications

- B ① Number of measurement sessions: The accumulated number of measurement sessions from a measurement start will be displayed (1, 2, 3, ...).
- ② Maximum speed: The maximum speed in each measurement session will be displayed (unit: × normal).
- ③ Measured value: The time required for the rotation speed to slow down from 3 times to 1.5 times normal speed ("slowdown time") in each measurement session will be displayed (unit: msec).
- ④ Average value (speed): The average value of all maximum speed will be displayed (unit: × normal).
- ⑤ Average value (value): The average value of all measured values will be displayed (unit: msec).
- ⑥ Judgement: "OK" is displayed if the average value of ⑤ is within the range below.
"NG" is displayed if it is out of the range.
When the number of measurements of ① is 4 times or less, nothing is displayed.

C

The screenshot shows the '10: THE JOG LOAD CHECK MODE' screen. It features a table with 5 rows of measurement data. To the right of the table, there are three lines of summary information: '[TOP SPEED AVR.] : XXX', '[TIME AVR. [ms]] : XXX', and '[RESULT] : OK'. Red arrows point from labels ① through ⑥ to their respective elements on the screen.

No.	TOP SPEED	TIME [ms]
1.	8.96	150
2.	9.57	153
3.	9.57	156
4.	9.57	147
5.	9.92	150

① Number of measurement sessions

② Maximum speed

③ Measured value

④ Average value (speed)

⑤ Average value (value)

⑥ Judgement

D

Procedures

- ① Set the value of the adjustment value of Cover (Adjust plate) for "0". (Fig. 1)
- ② Turn the JOG ADJUST knob max at the heavy side and turn the JOG dial 10 times each to clockwise and counter clockwise. After turn the JOG dial, return the JOG ADJUST knob to the center.
× When JOG dial rotation is not smoothly or abnormal noise occurs, check JOG dial is assembled properly.
- ③ Enter the mode for JOG dial Rotation Load Adjustment.
While holding the CUE/LOOP CALL ◀ and TEMPO ±6/±10/±16/WIDE buttons pressed, press the ⏻ button to turn the unit on. (Be sure to hold the ⏻ button pressed until the unit starts up.) (Fig. 2)
- ④ Turn the VINYL SPEED ADJ. TOUCH/BRAKE knob to the maximum (right direction).
- ⑤ Turn the JOG dial swiftly. Always turn the JOG dial in the left direction.
- ⑥ The slowdown time (unit: msec) will be measured.
- ⑦ Perform measurement 5 times. Confirm that a judgment indicated by a display is "OK".
(value of standard: 170 ±20 msec)
- ⑧ When the rotation decrease time is coming off from spec (NG), adjust it according to " Adjustment method".
(Refer to Table 1 for the adjustment value.)
- ⑨ Turn the JOG ADJUST knob max at the light side and turn the JOG dial swiftly in the left direction. Perform measurement 1 time. Confirm that a judgment indicated by a display is "OK".
(value of standard: 380 msec or more)

F Table 1 Adjustment reference value

JOG rotation speed (calibration "0")	221 or more	220 to 211	210 to 201	200 to 191	190 to 150	149 to 145	144 to 140	139 to 130	129 or less
JOG calibration to change (reference)	+4	+3	+2	+1	0	-1	-2	-3	-4

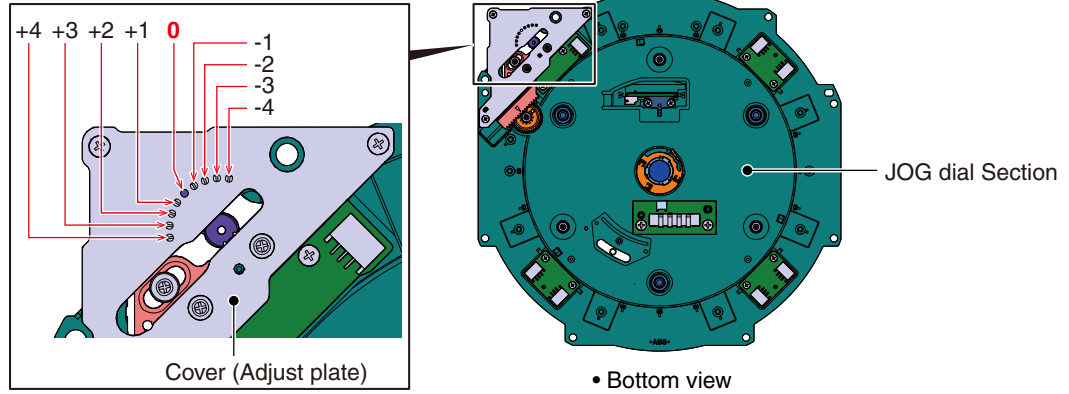


Fig. 1



Fig. 2

■ Adjustment method

- ① Set JOG ADJUST knob for the center.
- ② Loosen the three screws fixing the Adjust cover. Remove the one screw fixing Rack gear. (Fig. 3)
- ③ While holding the JOG ADJUST knob of the center direction; move the Rack gear, and adjust calibration value. (Fig. 4)
 ※ When you move a rack gear, be careful not to hold the Cover (Adjust plate) and other gears.
- ④ Secure rack gear, the Cover (Adjust plate) with the screws. (Fig. 3)

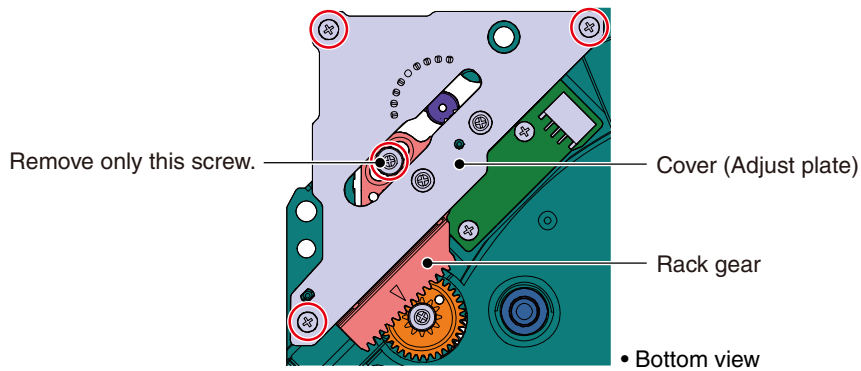


Fig. 3

A

B

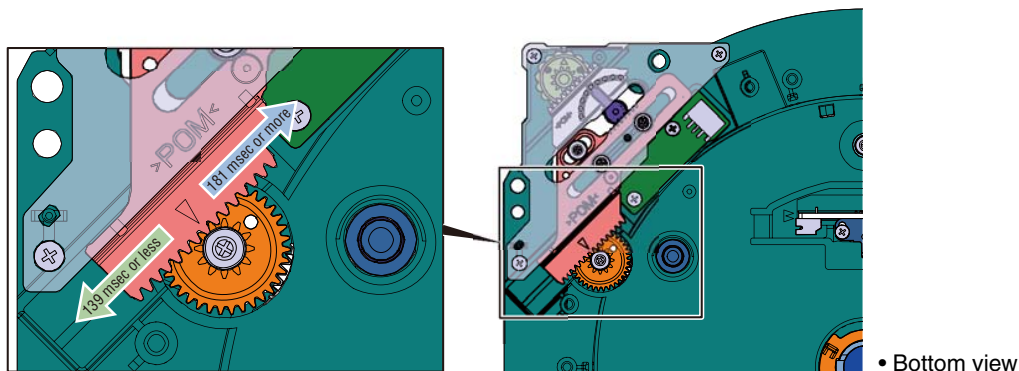


Fig. 4

■ **Remarks**

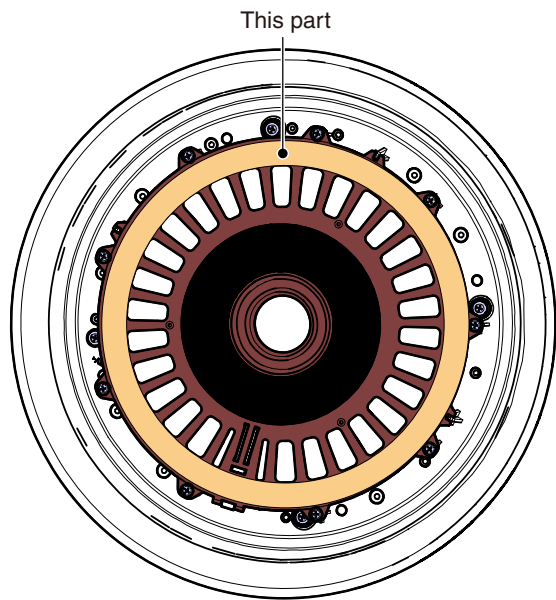
If the JOG rotation speed is lower than the specification even if the calibration is minimized, do the following method and perform ③ to ⑦ of "■ Procedures" again.

- c • Wipe the JOG dial (DNK6777) with ethanol again. (Fig. 5)

- Reassemble the JOG dial (DNK6777). (Fig. 6)

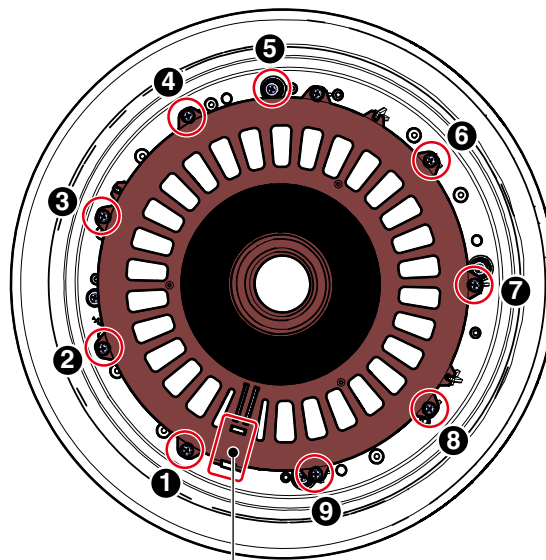
D

E



• Bottom view

Fig. 5



FFC area

• Bottom view

Fig. 6

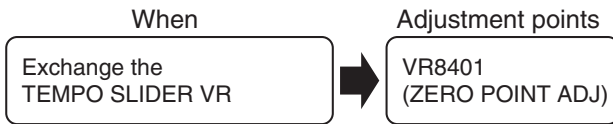
※ Replace the Base (DNK6776) and Spring (DBH1817) if necessary.

F

8.5 TEMPO ZERO POINT ADJUSTMENT



Necessary Adjustment Points



Jigs

<ul style="list-style-type: none"> • Precise screwdriver (small) 	<ul style="list-style-type: none"> • Digital multimeter which can be measured to 0.1mV.
	<ul style="list-style-type: none"> • Insulation sheet (The thing that is bigger than PCB)

Adjustment and Check Points



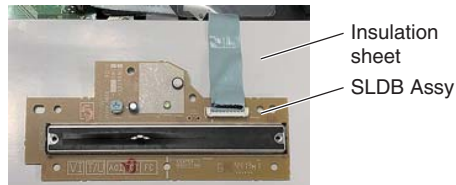
TEMPO knob (SLDB Assy)

Zero Point ADJ.

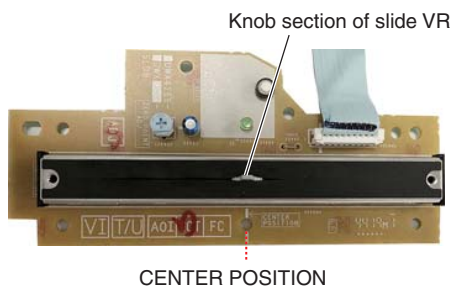
Notes:

Perform the adjustment before SLDB Assy mounting.
Repeat the adjustment until the voltage becomes 0 ± 5 mV.

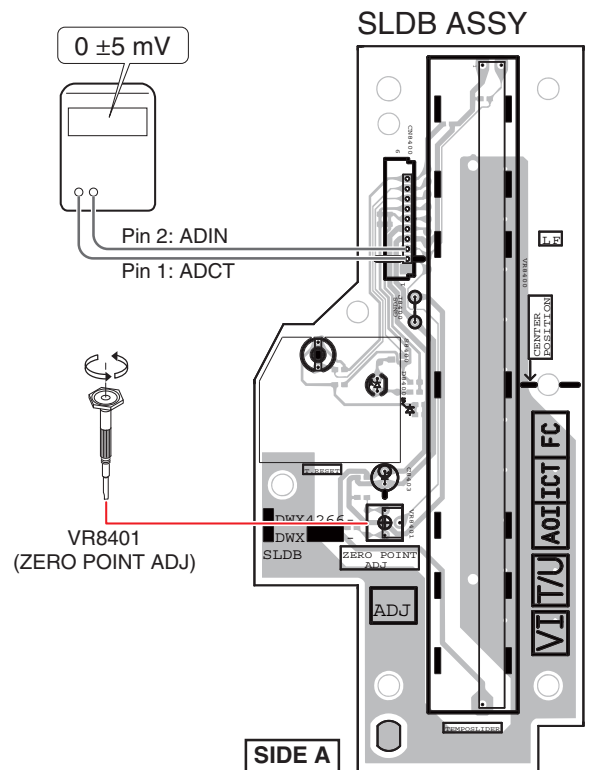
- ① Insert the insulation sheet between SLDB Assy and the main unit.



- ② Match the knob section of slide VR with CENTER POSITION.



- ③ Adjust it so that turn VR8401, and the voltage of the digital multimeter becomes 0 ± 5 mV.



8.6 USER SETTABLE ITEMS

- A 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 (next page), 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 user's Setting	Setting Value (The factory default settings are indicated in red letters.)	Part Name	Content to be Stored		
[UTILITY]					
B DJ SETTING					
LOAD LOCK	UNLOCK, LOCK	IC2802 (NSP) (MAIN Assy)	[UTILITY] setting		
QUANTIZE BEAT VALUE	1/8, 1/4, 1/2, 1				
BEAT JUMP BEAT VALUE	1/2, 1, 2, 4, 8, 16, 32, 64				
HOT CUE AUTO LOAD	OFF, rekordbox SETTING, ON				
HOT CUE COLOR	OFF, ON				
AUTO CUE LEVEL	MEMORY, -78dB, -72dB, -66dB, -60dB, -54dB, -48dB, -42dB, -36dB				
VINYL SPEED ADJUST	TOUCH&RELEASE, TOUCH, RELEASE				
PLAY MODE	CONTINUE, SINGLE				
DISPLAY (LCD)					
LCD BRIGHTNESS	1 to 3 to 5				
JOG LCD BRIGHTNESS	1 to 3 to 5				
C LANGUAGE					
SCREEN SAVER	OFF, ON				
TOUCH DISPLAY CALIBRATION	—				
DISPLAY (INDICATOR)					
SLIP FLASHING	OFF, ON				
ON AIR DISPLAY	OFF, ON				
JOG RING BRIGHTNESS	OFF, 1, 2				
JOG RING INDICATOR	OFF, ON				
PRO DJ LINK					
PLAYER No.	AUTO, 1 to 6				
DUPLICATION	ALL, PLAYER 1 to 6				
MIDI CHANNEL	1 to 16				
SYSTEM					
AUTO STANDBY	OFF, ON				
OUTPUT ATT.	0dB, -3dB, -6dB, -9dB, -12dB				
HISTORY NAME	Character input				
DEFAULT	—				
INFO					
VERSION No.	SYSTEM Ver.				
IP ADDRESS	IP ADDRESS				
SERIAL No.	SERIAL NUMBER				
[Others]					
TIME MODE	TIME, REMAIN	Status of key			
AUTO CUE	ON, OFF				
JOG MODE	VINYL, CDJ				
TEMPO RANGE	±6%, ±10%, ±16%, WIDE				
MASTER TEMPO	ON, OFF				
QUANTIZE	ON, OFF				
WAVEFORM/PHASE METER	WAVEFORM, PHASE METER	ShortCut			

■ Procedure for saving and restoring settings

Procedure of [Saving My Settings to a storage device (SD, USB)] and [Calling up My Settings saved on a storage device (SD, USB)] are as follows.

[Saving My Settings to a storage device (SD, USB)]

- ① Connect a storage device (SD, USB) to the unit.
 - ② Press the [SOURCE] button.
 - ③ Select a device.
 - ④ Press the [SHORTCUT] button.
 - ⑤ Touch [SAVE] in [MY SETTINGS].
- Press the [SHORTCUT] button again to close the [SHORTCUT] screen.

[Calling up My Settings saved on a storage device (SD, USB)]

- ⑥ Connect a storage device (SD, USB) to the unit.
 - ⑦ Press the [SOURCE] button.
 - ⑧ Select a device.
 - ⑨ Press the [SHORTCUT] button.
 - ⑩ Touch [LOAD] in [MY SETTINGS].
- Press the [SHORTCUT] button again to close the [SHORTCUT] screen.

■ Sheet for confirmation of the user setting

[UTILITY]

DJ SETTING														
LOAD LOCK		QUANTIZE BEAT VALUE				BEAT JUMP BEAT VALUE								
UNLOCK	LOCK	1/8	1/4	1/2	1	1/2	1	2	4	8	16	32	64	
HOT CUE AUTO LOAD				HOT CUE COLO		AUTO CUE LEVEL								
OFF	rekordbox SETTING	ON	OFF	ON	MEMORY	-78dB	-72dB	-66dB	-60dB	-54dB	-48dB	-42dB	-36dB	
VINYL SPEED ADJUST				PLAY MODE										
TOUCH&RELEASE	TOUCH	RELEASE	CONTINUE	SINGLE										

DISPLAY (LCD)												
LCD BRIGHTNESS					JOG LCD BRIGHTNESS					LANGUAGE	SCREEN SAVER	
1	2	3	4	5	1	2	3	4	5		OFF	ON

DISPLAY (INDICATOR)								
SLIP FLASHING		ON AIR DISPLAY		JOG RING BRIGHTNESS		JOG RING INDICATOR		
OFF	ON	OFF	ON	OFF	1	2	OFF	ON

PRO DJ LINK															
PLAYER No.							DUPLICATION								
AUTO	1	2	3	4	5	6	ALL	PLAYER 1	PLAYER 2	PLAYER 3	PLAYER 4	PLAYER 5	PLAYER 6		
MIDI CHANNEL															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

SYSTEM								INFO		
AUTO STANDBY		OUTPUT ATT.				HISTORY NAME	DEFAULT	VERSION No.	IP ADDRESS	SERIAL No.
OFF	ON	0dB	-3dB	-6dB	-9dB						-12dB

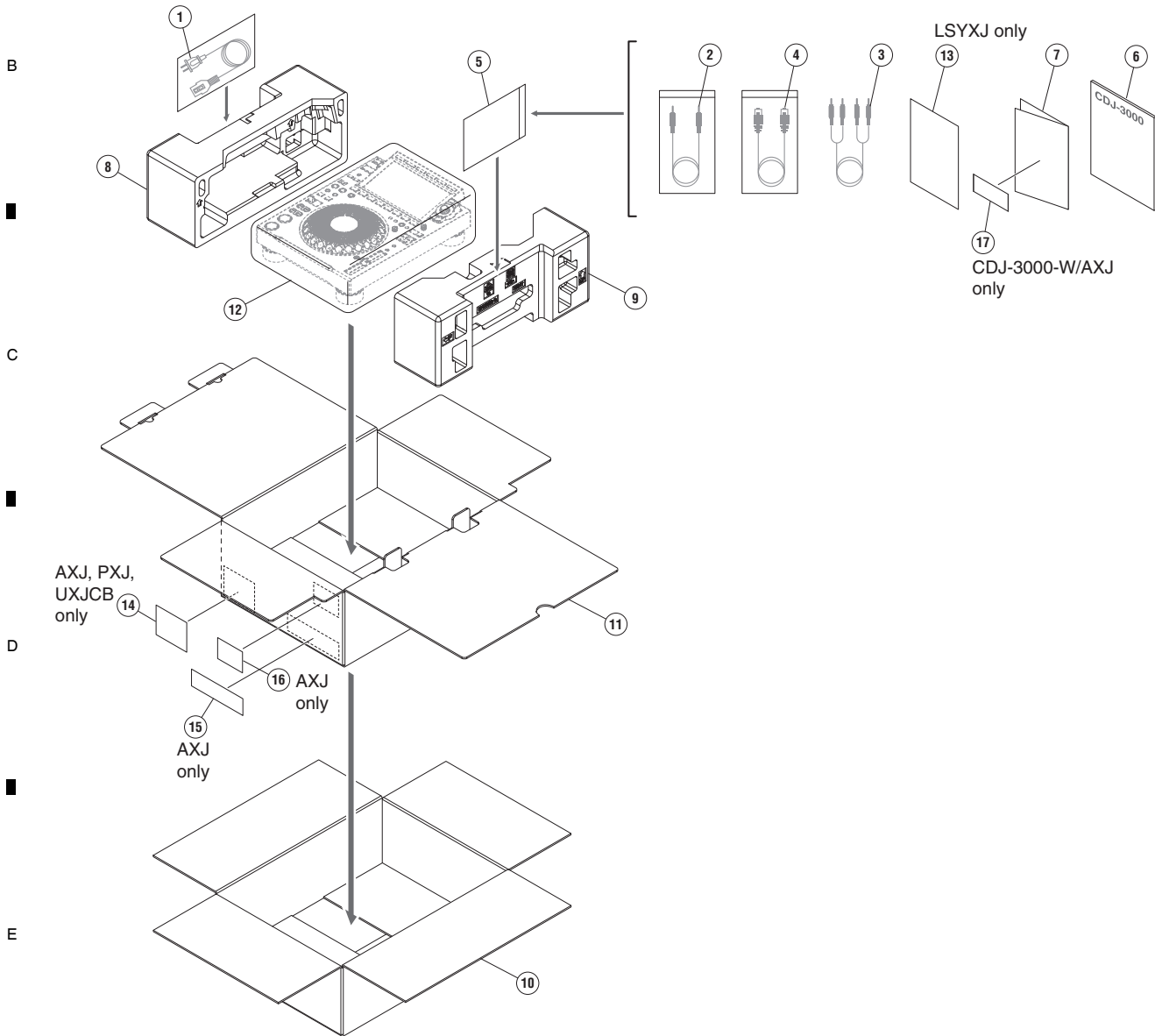
[Others]

TIMER MODE		AUTO CUE		JOG MODE		TEMPO RANGE			MASTER TEMPO		QUANTIZE		WAVEFORM/PHASE METER		
TIME	REMAIN	ON	OFF	VINYL	CDJ	±6%	±10%	±16%	WIDE	OFF	ON	ON	OFF	WAVEFORM	PHASE METER

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 \triangle 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

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
△	1 Power cord	See Contrast table (2)	11	Packing Case	See Contrast table (2)
	2 Digital audio cable	DDE1154	12	Packing Sheet	RHC1023
	3 Analog audio cable	XDE3045	NSP 13	Warranty	See Contrast table (2)
	4 LAN cable	DDE1141	NSP 14	Label	See Contrast table (2)
NSP 5	Polyethylene Bag	AHG7117	NSP 15	Label	See Contrast table (2)
	6 Quick Start Guide	DRH1530	NSP 16	Label	See Contrast table (2)
	7 Precautions for Use	See Contrast table (2)	NSP 17	Label	See Contrast table (2)
	8 Packing Pad	DHA1997			
	9 Packing Pad	DHA1998			
NSP 10	Master Carton	See Contrast table (2)			

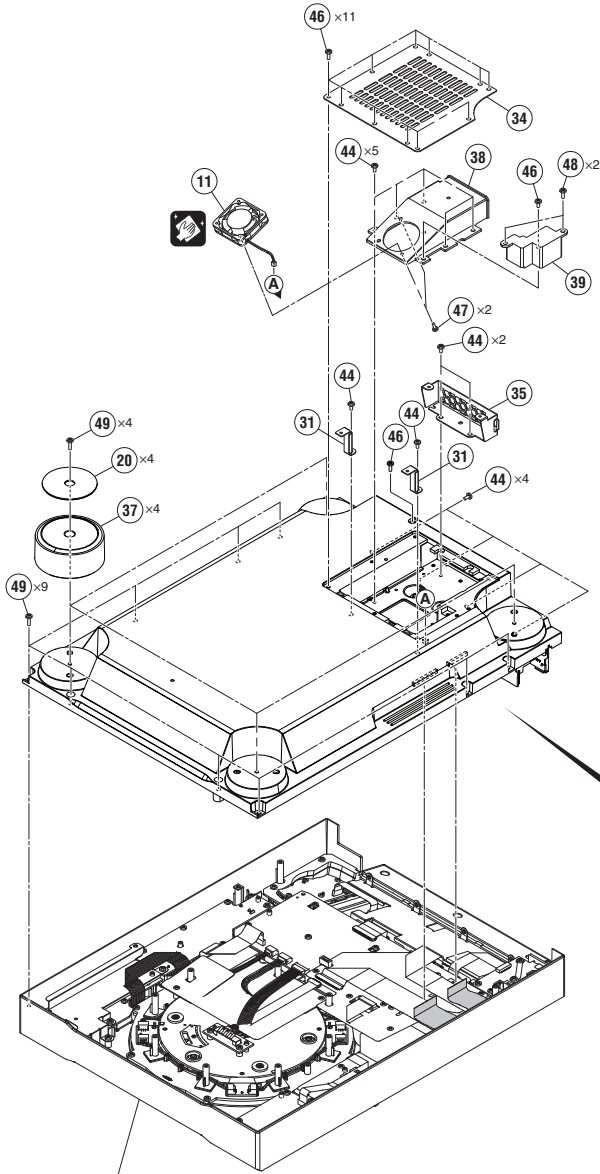
(2) CONTRAST TABLE

CDJ-3000/AXJ, LSYXJ, UXJCB, CDJ-3000-W/AXJ, PXJ, UXJCB are constructed the same except for the following:

Mark	No.	Symbol and Description	CDJ-3000 /AXJ	CDJ-3000 /LSYXJ	CDJ-3000 /UXJCB	CDJ-3000-W /AXJ	CDJ-3000-W /PXJ	CDJ-3000-W /UXJCB
△	1	Power cord	DDG1125	DDG1124	DDG1123	DDG1125	DDG1124	DDG1123
	7	Precautions for Use	DRH1535	DRH1534	DRH1534	DRH1535	DRH1611	DRH1611
NSP	10	Master Carton	DHG3763	DHG3697	DHG3764	DHG3808	DHG3806	DHG3805
	11	Packing Case	DHG3801	DHG3801	DHG3801	DHG3809	DHG3809	DHG3809
NSP	13	Warranty	Not used	DRY1274	Not used	Not used	Not used	Not used
NSP	14	Label	DRW2951	Not used	DRW2853	DRW2983	DRW2981	Not used
NSP	15	Label	DRW2952	Not used	Not used	DRW2984	Not used	Not used
NSP	16	Label	DRW2953	Not used	Not used	DRW2953	Not used	Not used
NSP	17	Label	Not used	Not used	Not used	DRW2988	Not used	Not used

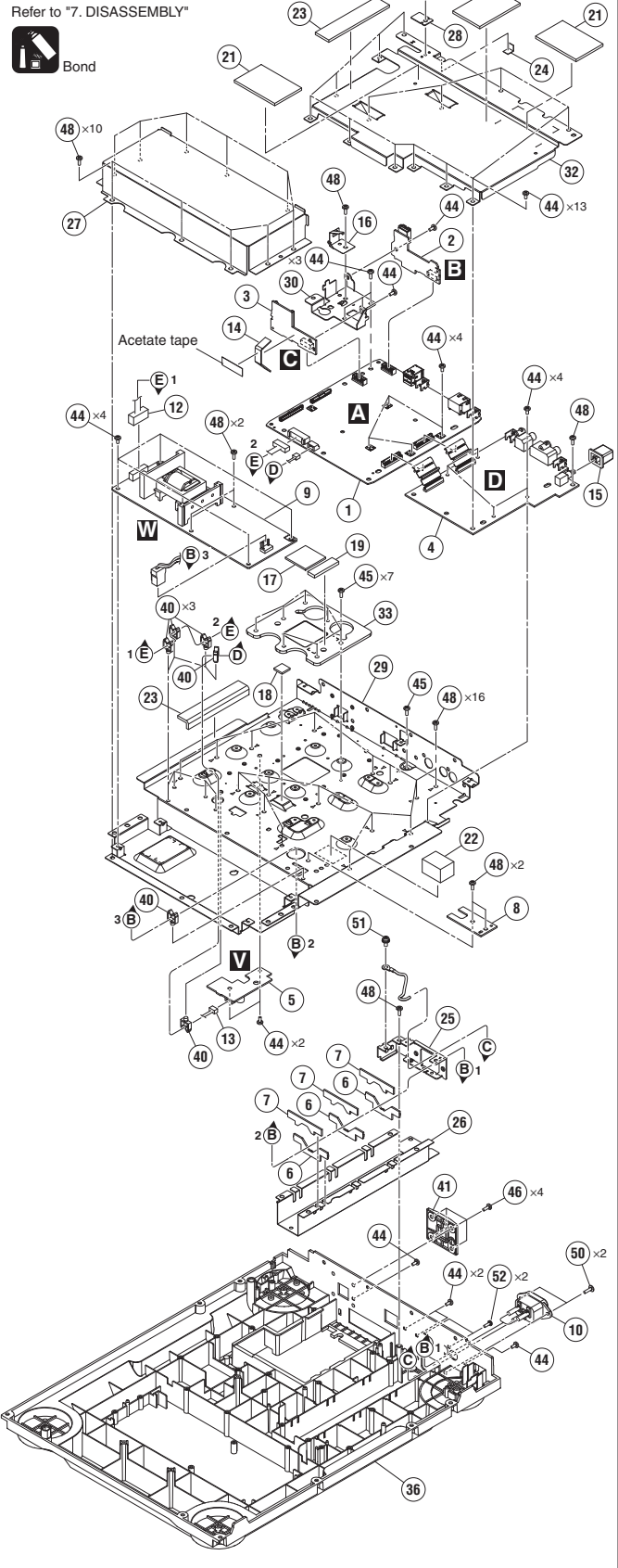
9.2 CHASSIS SECTION

A • Bottom view



Refer to "9.3 CONTROL PANEL (1/2) SECTION".

• Top view

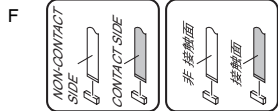


Refer to "7. DISASSEMBLY"



Bond

Acetate tape



(1) CHASSIS SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	MAIN Assy	DWX4229	26	Shield Case	DNH3317
2	USBA Assy	DWX4230	27	Shield Case	DNH3326
3	SDCB Assy	DWX4231	28	Stay	DNH3328
4	AUDB Assy	DWX4278	29	Stay	DNH3408
5	FANB Assy	DWX4267	30	Stay	DNH3409
6	SSK1 Assy	DWX4327	31	Stay	DNH3410
7	SSK2 Assy	DWX4328	32	Shield Case	DNH3415
8	SSK3 Assy	DWX4329	33	Heat Sink	DNH3419
⚠	9 SW POWER SUPPLY	DWR1548	34	Cover	DNH3420
⚠	10 AC Inlet	DKP3991	35	Cover	DNH3421
11	Fan Motor	CXM1446	⚠ 36	Chassis	See Contrast table (2)
12	Crimp Connector	DDC1024	37	Insulator	DNK6852
13	Crimp Connector	DDC1030	38	Duct	DNK6854
14	Ferrite Clamper	DTX1011	39	Cover	DNK6893
15	Power Knob	DAC2306	40	Holder	VEC1355
16	SD Earth Spring	DBK1357	41	Support	DNK6927
17	Heat Cond Sheet	DEB2069	42	•••••	
18	Heat Cond Sheet	DEB2071	43	•••••	
19	Heat Cond Sheet	DEB2076	44	Screw	BBZ30P060FTB
20	Cushion	DEC3838	45	Screw	BBZ30P080FTC
21	Cushion	DEC3884	46	Screw	BBZ30P080FTB
22	Cushion	DEC3921	47	Screw	BPZ26P080FTC
23	Cushion	DEC3923	48	Screw	BPZ30P080FNI
24	Gasket	DEC3919	49	Screw	BPZ30P100FTB
25	Bracket/ACI	DNH3020	50	Screw	IBZ30P100FTB
			51	Screw	PMH40P080FTC
			52	Screw	PPZ30P080FTB

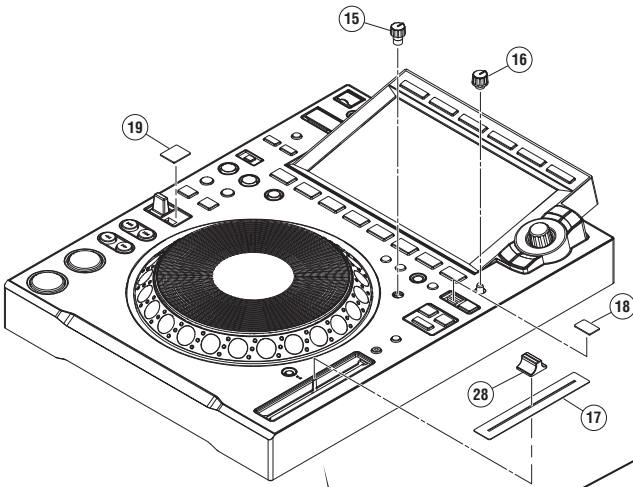
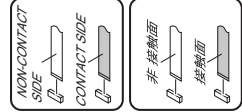
(2) CONTRAST TABLE

CDJ-3000 and CDJ-3000-W are constructed the same except for the following:

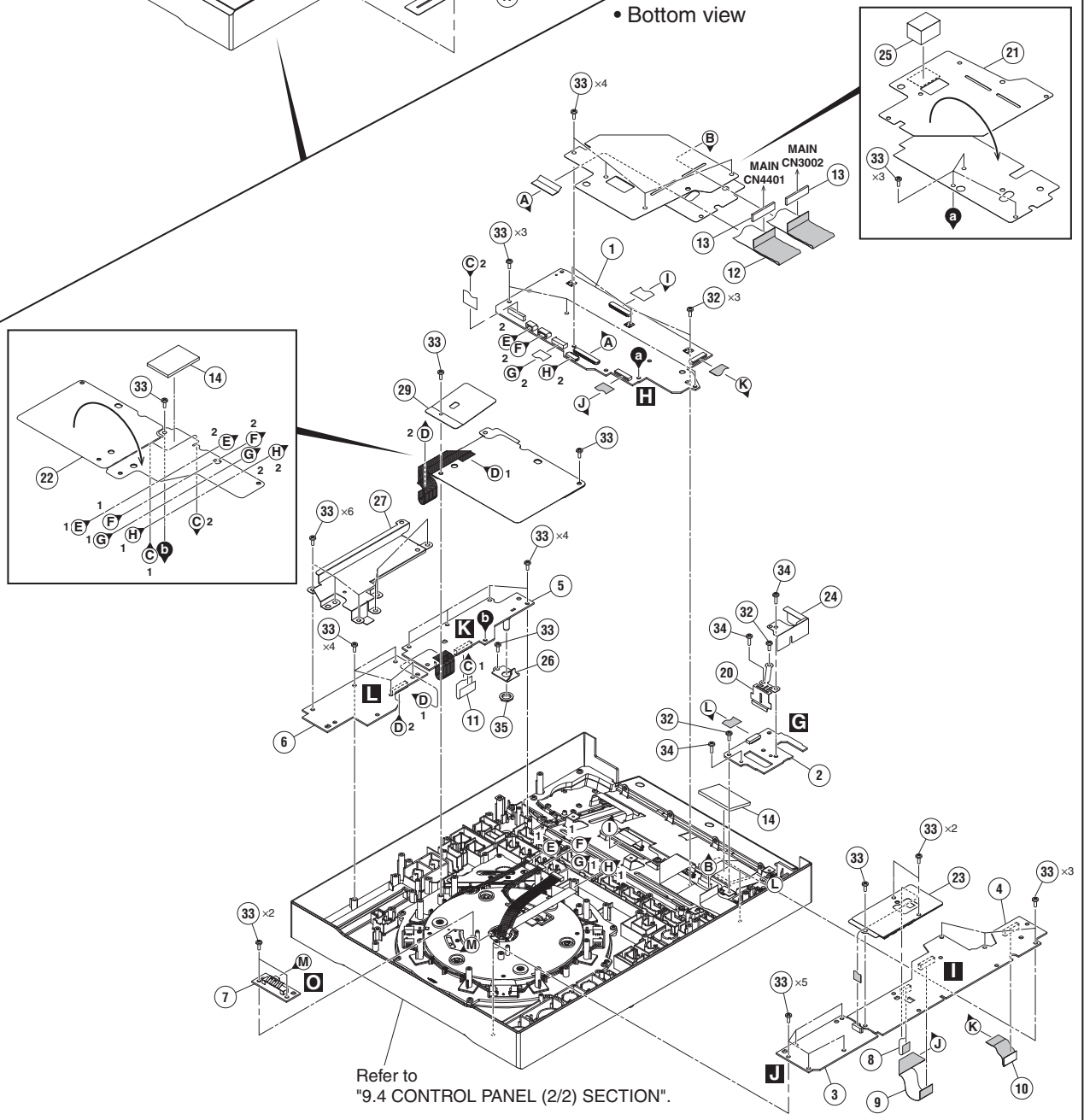
Mark	No.	Symbol and Description	CDJ-3000	CDJ-3000-W
⚠	36	Chassis	DNK6851	DNK6984

9.3 CONTROL PANEL (1/2) SECTION

A
B
C
D
E
F



• Bottom view



<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	PNLB Assy	DWX4256			
2	ILMB Assy	DWX4257	21	Sheet	DEC3841
3	KSWB Assy	DWX4268	22	Sheet	DEC3842
4	SUB1 Assy	DWX4264	23	Sheet	DEC3927
5	SUB2 Assy	DWX4265	24	Sheet	DEC3869
			25	Cushion	DEC3921
6	SLDB Assy	DWX4266			
7	CONB Assy	DWX4269	26	Stay	DNH3412
8	FFC	DDD1914	27	Shield Case	DNH3416
9	FFC	DDD1915	28	Knob/SLD	See Contrast table (2)
10	FFC	DDD1916	29	Barrier	DEC3932
			30	•••••	
11	FFC	DDD1917			
12	FFC	DDD1921	31	•••••	
13	Ferrite Clamper	DTX1011	32	Screw	BBZ30P080FTC
14	Cushion	DEC3922	33	Screw	BPZ30P080FNI
15	Knob	DAA1444	34	Screw	BPZ30P100FTB
			35	Flange Nut M9	DBN1008
16	Knob	DAA1405			
17	Slide Sheet 1C	See Contrast table (2)			
18	Panel	DAH3257			
19	Panel	DAH3256			
20	Leaf Spring	DBK1386			

(2) CONTRAST TABLE

CDJ-3000 and CDJ-3000-W are constructed the same except for the following:

Mark	No.	Symbol and Description	CDJ-3000	CDJ-3000-W
	17	Slide Sheet 1C	DAH2404	DAH3193
	28	Knob/SLD	DNK5981	DNK6188

9.4 CONTROL PANEL (2/2) SECTION

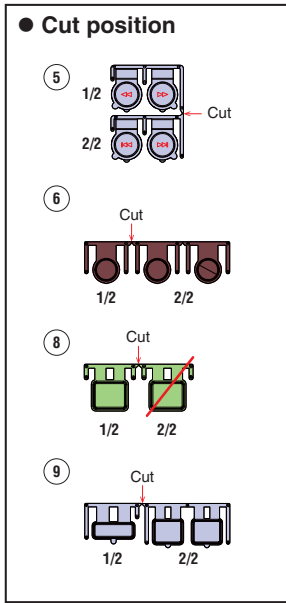
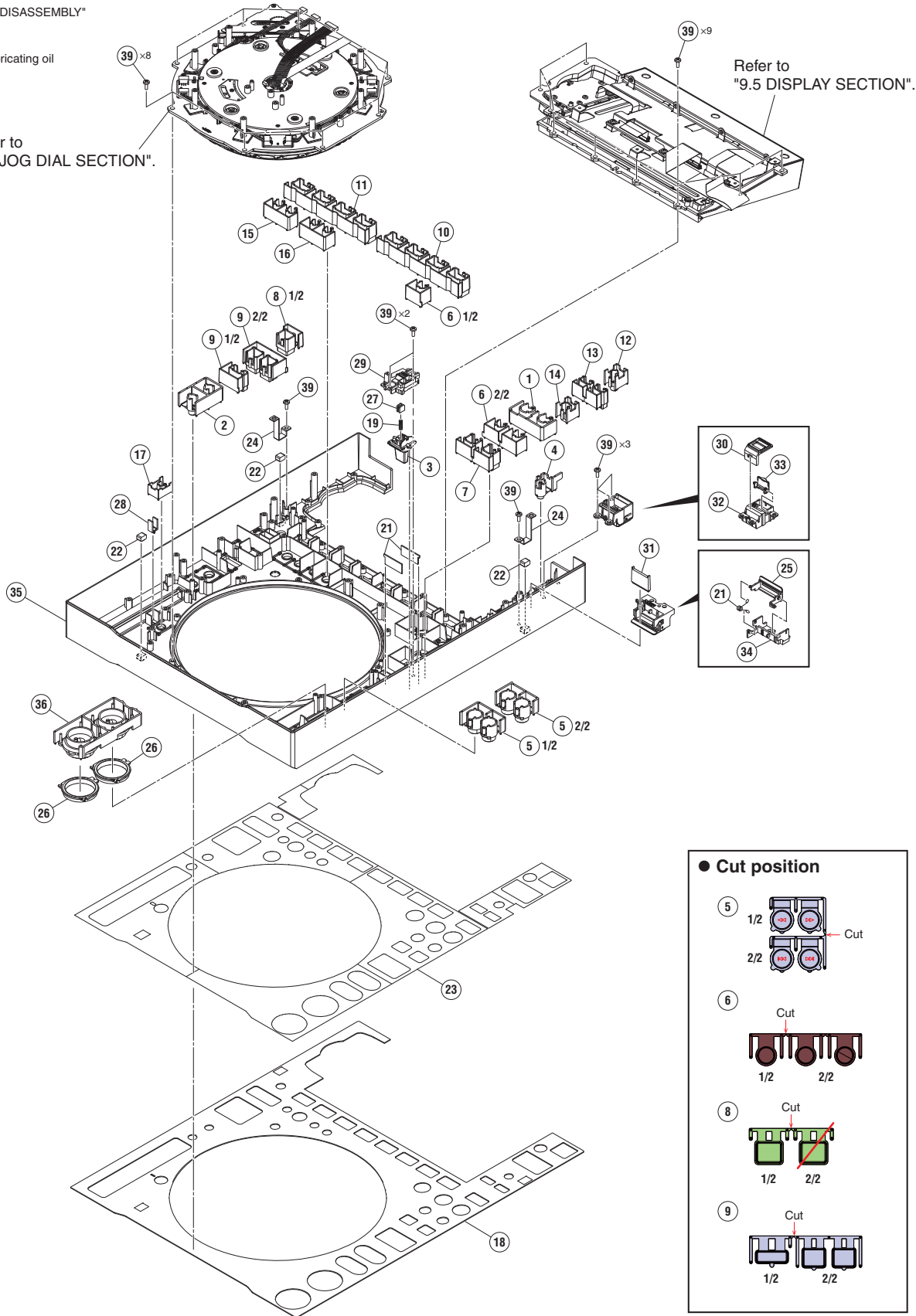
A • Bottom view

Refer to "7. DISASSEMBLY"



Refer to "9.6 JOG DIAL SECTION".

Refer to "9.5 DISPLAY SECTION".



(1) CONTROL PANEL (2/2) SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Button (LOOP)	DAC2470	21	Brake	DEC3948
2	Button (TEMPO)	DAC2474	22	Gasket	DEC3719
3	Lever	DAC3097	23	DS ADH Sheet	DEH1107
4	Button	DAC3134	24	Stay	DNH3413
5	Button	DAC3149	25	SD Card Door	DNK5308
6	Button	DAC3463	26	Ring Lens (PLAY)	DNK5315
7	Button	DAC3464	27	Lever Cap	DNK5344
8	Button	DAC3465	28	Lens	DNK5862
9	Button	DAC3466	29	Base	DNK6470
10	Button	DAC3467	30	Lens	DNK6931
11	Button	DAC3468	31	Lens	DNK6937
12	Button	DAC3469	32	Holder	DNK6496
13	Button	DAC3470	33	Door	DNK6497
14	Button	DAC3472	34	Holder	DNK6498
15	Button	DAC3474	⚠ 35	Control Panel	See Contrast table (2)
16	Button	DAC3475	36	Button Unit	See Contrast table (2)
17	Button	DAC3476	37	•••••	
18	Panel	See Contrast table (2)	38	•••••	
19	Lever Spring	DBH1702	39	Screw	BPZ30P080FNI
20	Spring	DBH1717			

(2) CONTRAST TABLE

CDJ-3000 and CDJ-3000-W are constructed the same except for the following:

Mark	No.	Symbol and Description	CDJ-3000	CDJ-3000-W
⚠	18	Panel	DAH3258	DAH3329
	35	Control Panel	DNK6856	DNK6971
	36	Button Unit	DXB2197	DXB2210

(1) DISPLAY SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	MLCB Assy	DWX4281	16	Button	DAC3462
2	ENCB Assy	DWX4326	17	Button	DAC3460
3	TFT LCD	DWX4227	18	Panel	See Contrast table (2)
4	Touch Panel	DSX1145	19	Packing/LCD	DEC3565
5	FFC	DDD1918	20	Cushion	DEC3839
6	FFC	DDD1919	21	Cushion	DEC3840
7	FFC	DDD1920	22	Stay	DNH3411
8	FFC	DDD1922	23	Shield Case	DNH3417
9	Ferrite Clamper	DTX1011	24	Plate	DNH3422
10	Dial Knob	See Contrast table (2)	25	Control Panel	See Contrast table (2)
11	Button	See Contrast table (2)	26	Cover	DNK6857
12	Button	See Contrast table (2)	27	Lens	See Contrast table (2)
13	Button	See Contrast table (2)	28	Lens	DNK6859
14	Button	See Contrast table (2)	29	Holder	DNK6860
15	Button	DAC3461	30	•••••	
			31	•••••	
			32	Screw	BBZ30P060FTB
			33	Screw	BPZ26P080FTC

(2) CONTRAST TABLE

CDJ-3000 and CDJ-3000-W are constructed the same except for the following:

Mark	No.	Symbol and Description	CDJ-3000	CDJ-3000-W
	10	Dial Knob	DAA1246	DAA1399
	11	Button	DAC3457	DAC3565
	12	Button	DAC3459	DAC3567
	13	Button	DAC3485	DAC3568
	14	Button	DAC3458	DAC3566
	18	Panel	DAH3259	DAH3331
	25	Control Panel	DNK6855	DNK6972
	27	Lens	DNK6858	DNK6985

(1) JOG DIAL SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	JLCD Assy	DWX4255	31	Base	DNK6776
2	JILM1 Assy	DWX4258	32	Jog Dial	DNK6777
3	JILM2 Assy	DWX4259	33	Jog Dial	See Contrast table (2)
4	JILM3 Assy	DWX4260	34	Base	DNK6779
5	JILM4 Assy	DWX4261	35	Holder	DNK6780
6	COIL1 Assy	DWX4262	36	Holder	DNK6782
7	COIL2 Assy	DWX4263	37	Holder	DNK6784
8	JOGB Assy	DWX4270	38	Shaft	DNK6785
9	Sensor	DSX1139	39	Gear	DNK6786
10	FFC	DDD1913	40	Gear	DNK6787
11	Crimp Connector	DDC1032	41	Gear	DNK6788
12	Crimp Connector	DDC1033	42	Gear	DNK6789
13	Crimp Connector	DDC1034	43	Spring	DBH1816
14	Connector Assy	PF03PP-B12	44	Roller	DXB2178
15	Connector Assy	PF03PP-B17	45	Spring	DBH1817
16	Connector Assy	PF04PP-C10	46	Damper	DEB2083
17	1..LCD Service Assy	DEA1122	47	Leaf Spring	DBK1394
NSP 18	2..TFT LCD	.....	48	.....
NSP 19	2..Cover	.....	49	.....
NSP 20	2..Holder	.....	50	Screw	BPZ20P040FTB
NSP 21	2..Sheet	.....	51	Screw	BPZ20P060FTC
22	SW Cushion HH48/2	DEC2538	52	Screw	BPZ30P080FNI
23	Slit	DEC3589	53	Screw	IPZ20P080FTC
24	Cushion	DEC3807	54	Screw	IPZ20P060FTC
25	Window	See Contrast table (2)	55	Screw (FE)	DBA1265
26	Brake	DED1189	56	Float Fastener	DBA1286
27	DS Tape	DEH1111			
28	Cover	DNH3367			
29	Base	DNK6774			
30	Cam	DNK6775			

(2) CONTRAST TABLE

CDJ-3000 and CDJ-3000-W are constructed the same except for the following:

Mark	No.	Symbol and Description	CDJ-3000	CDJ-3000-W
	25	Window	DAH3206	DAH3330
	33	Jog Dial	DNK6778	DNK6973

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