Pioneer

Service Manual

DDJ-1000

ORDER NO.
RRV4682

DJ Controller

DDJ-1000

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

Model	Type	Power Requirement	Remarks
DDJ-1000	FWLPWXJ	AC 110 V to 240 V	
DDJ-1000	SYXJ	AC 220 V to 240 V	
DDJ-1000	UXJCB	AC 120 V	
DDJ-1000	XJCN	AC 220 V	

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

Model	Order No.	Remarks
DDJ-1000	RRV4683	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.

CONTENTS

1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

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

1.2 NOTES ON 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			
	Part No.	Ref No.	Function	Remarks
MAIN Assy	NJM78M05DL1A	IC501	12V → 5V Regulator	IC with heat-pad
	BD9328EFJ	IC503	12V → 1.25V DC/DC Converter	IC with heat-pad
	MM3543BH	IC505	12V → 9V DC/DC Converter	IC with heat-pad
	NJM78M05DL1A	IC510	7.5V → 5V Regulator	IC with heat-pad
	BD9851EFV	IC511	12V → ±18V DC/DC Converter	IC with heat-pad
	BD9851EFV	IC512	12V → ±7.5V DC/DC Converter	IC with heat-pad
	NJM78M05DL1A	IC513	7.5V → 5V Regulator	IC with heat-pad
	NJM2886DL3-33	IC514	7.5V → 3.3V Regulator	IC with heat-pad
	NJM78M15DL1A	IC515, IC516	18V → 15V Regulator	IC with heat-pad
	NJM78M15DL1A	IC517	-18V → -15V Regulator	IC with heat-pad
	D810K013DZKB400	IC3001	DSP	BGA
	AK4458VN	IC5201	DAC	IC with heat-pad
	2SCR573D3	Q5621, Q5623	Transistor	Transistor with heat-pad
	2SAR573D3	Q5622, Q5624	Transistor	Transistor with heat-pad
LCDL Assy	BD00IC0WEFJ-E2	IC7003	3.3V → 1.25V Regulator	IC with heat-pad
LCDR Assy	BD00IC0WEFJ-E2	IC7503	3.3V → 1.25V Regulator	IC with heat-pad

1.3 SERVICE NOTICE

■ VOLTAGE MONITORING

This unit always monitors for power failure and will shut itself off immediately after an error is detected.
A power failure is indicated with flashing of the QUANTIZE (WAKE UP) LED (Intervals: 250 ms [Light on 125 ms/Light off 125 ms]) on the left Deck.
All the LEDs other than QUANTIZE (WAKE UP) LED will be light off, and all the switches and VRs will be disabled.
Repair the unit according to the diagnostic procedures described in "5.4 VOLTAGE MONITORING CIRCUIT."

■ CONFIRMATION OF USER-SETTING

This product has user-setting data. Be sure to confirm those data before starting repair, although changing them may not have a large effect. Use the Check Sheet in "8.4 USER SETABLE ITEMS" to which you can transcribe the settings, as required.
The settings are stored in FLASH ROM (IC2001) on the MAIN Assy.
For details, refer to "Changing the settings" in the operating instructions.

■ About the assembly of the JOG dial display

The JOG panel is not coloring to improve the visibility of the LCD. So, internal dust and dirt on the surface are easy to see.
Therefore, attention is required when replacing the parts inside the JOG dial (especially when replacing TFT LCD (DWX4141)).
If it gets dirty during work, please remove it before working. In addition, the LCD is performed calibration at the mass production. Therefore, do the same when replacing.

■ About the Crossfadar Assy

A non-contact type fader is used for the Crossfader of this product. So, compared to conventional, it has several tens of times durability. High accuracy is required for assembling the Crossfader, so we will supply the service parts at Assy. Replace it with Cross fader Service Assy (DEA1088). In addition, it is performed calibration at the mass production. Therefore, do the same when replacing.
After replacing, you must do the Crossfader calibration (CRF SET) in service mode. Otherwise, it will not start normally.
Even when replacing MAIN Assy, it is necessary to do calibration.
The settings are stored in FLASH ROM (IC2001) on the MAIN Assy.

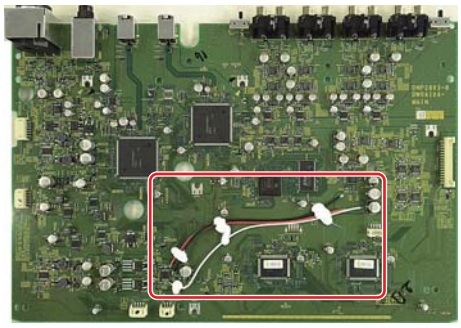
■ About the assembly of the OLED Assy

OLED is used in the display of the effect area. Replace the OLED Assy with OLED Assy (Service) (DEA1084).
Matrix OEL is stuck to the holder with double-sided tape. If you fail to paste and try to peel off, parts will be broken. So, we will supply the service parts at Assy.

■ About the repair working of HEADPHONES signal line of MAIN Assy

For the noise restraint in specific requirements HEAD PHONES signal line on the MAIN Assy is repaired.
The target lot per destination is as follows. (The quantity may be changed slightly)

SYXJ	:	1 to 2000YY
UXJCB	:	1 to 350CC
FWLPWXJ	:	1 to 610EQ
XJCN	:	1 to 20CN



■ How to modify when the rattling of the product is occurred

- Place the 9 points (■) of the control panel under the block (Height more than 20 mm and Diameter ϕ lower than 30 mm is recommended), and attach the chassis part according to the screw tightening order manually.
  (The block is available at the home center, etc.)(Refer to "7 DISASSEMBLY" about the screw tightening order.)
- When there is no block, place the whole surface of the control panel to the curing mat, and attach the chassis part according to the screw tightening order manually.
- Take care not to press the screwdriver strongly to the product in any case.
- Do not use the electric screwdriver.

2. SPECIFICATIONS

AC adapter

Power requirements....AC 110 V to 240 V, 50 Hz/60 Hz (FWLPWXJ)
AC 220 V to 240 V, 50 Hz/60 Hz (SYXJ)
AC 120 V, 60 Hz (UXJCB)
AC 220 V, 50 Hz (XJCN)
Rated current ..... 0.9 A
Rated output ..... DC 12 V, 3 A
Power consumption (standby) .....0.4 W
General – Main Unit
Power consumption ..... DC 12 V, 2 000 mA
Main unit weight.....6.0 kg (13.4 lb)
Max. external dimensions.....708 mm (W) × 73.4 mm (H) × 361.4 mm (D)
(27.9 in. (W) × 2.9 in. (H) × 14.2 in. (D))
Tolerable operating temperature..... +5 °C to +35 °C (+41 °F to +95 °F)
Tolerable operating humidity.....5 % to 85 % (no condensation)

Audio Section

Sampling rate .....44.1 kHz
D/A converter.....32-bit
A/D converter.....24-bit
Frequency characteristic
USB, LINE, MIC1, MIC2 ..... 20 Hz to 20 kHz
S/N ratio (rated output, A-WEIGHTED)
USB ..... 112 dB
LINE..... 96 dB
PHONO ..... 85 dB
MIC1 ..... 80 dB
MIC2 ..... 80 dB
Total harmonic distortion (20 Hz to 20 kHzBW)
USB .....0.002 %
LINE.....0.005 %
Standard input level / Input impedance
LINE.....–12 dBu/47 kΩ
PHONO .....–52 dBu/47 kΩ
MIC1 .....–57 dBu/3.3 kΩ
MIC2 .....–57 dBu/3.3 kΩ
Standard output level / Load impedance / Output impedance
MASTER 1..... +6 dBu/10 kΩ/330 Ω or less
MASTER 2..... +2 dBu/10 kΩ/680 Ω or less
BOOTH..... +6 dBu/10 kΩ/330 Ω or less
PHONES ..... +8 dBu/32 Ω/10 Ω or less
Rated output level / Load impedance
MASTER 1.....25 dBu/10 kΩ
MASTER 2.....21 dBu/10 kΩ
BOOTH.....25 dBu/10 kΩ
Crosstalk
LINE..... 82 dB
Channel equalizer characteristic
HI..... –26 dB to +6 dB (20 kHz)
MID..... –26 dB to +6 dB (1 kHz)
LOW ..... –26 dB to +6 dB (20 Hz)
Microphone equalizer characteristic
HI..... –12 dB to +12 dB (10 kHz)
LOW ..... –12 dB to +12 dB (100 Hz)

Input / Output terminals

LINE input terminals
RCA pin jacks ..... 2 sets
LINE/PHONO input terminals
RCA pin jacks ..... 2 sets
MIC input terminals
XLR connector & 1/4" TRS jack ..... 1 set
1/4" TRS jack ..... 1 set
MASTER output terminals
XLR connector..... 1 set
RCA pin jacks ..... 1 set
BOOTH output terminal
1/4" TRS jack ..... 1 set
PHONES output terminal
1/4" stereo jack ..... 1 set
3.5 mm stereo mini jack..... 1 set
USB terminals
B type ..... 2 sets

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

Accessories

- AC adapter
  (DWR1574)
- Power cord
  (FWLPWXJ: ADG1154)
  (SYXJ: ADG1154)
  (UXJCB: XDG3052)
  (XJCN: ADG7079)
- USB cable[1]
  (DDE1128)
- Operating Instructions (Quick Start Guide)
  (FWLPWXJ: DRH1471)
  (SYXJ: DRH1469)
  (UXJCB: DRH1468)
  (XJCN: DRH1470)
- rekordbox dj license key label
- Warranty (SYXJ only)

[1] One USB cable is included with this unit.
To connect two units, separately prepare a cable that conforms to the USB 2.0 standard.

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. If the customer complain occurs with the specific source, such as Mic, each Input, Fader, Equalizer, and Trim, input that specific source for checking.	The customer complain must not be reappeared. Audio and operations must be normal.
3	Check the analog audio input (each channel, MIC1, MIC2). (Make the analog connections with CDJ player, analog player and MIC.)	Audio and operations must be normal.
4	Check the analog audio output (MASTER1, MASTER2, BOOTH).	Audio and operations must be normal.
5	Check the headphones output. (1/4" stereo phone plugs and 3.5 mm stereo mini plugs)	There must be no errors, such as noise, in the audio output.
6	Check the LCD display on JOG dial.	Check that there is no dirt or dust trapped inside the LCD display.
7	Check the LEDs.	Check that all the LEDs light in Test mode.
8	Check operations of the operating elements. (KEY, SW, VR, Fader, PAD and JOG etc.)	Make sure that all buttons and controls on the main unit function properly in Test mode.
9	Check the connection of each interface.	
	USB A and B terminals.	The PC must be linked. The rekordbox software must be linked.
10	Check the DVS.	Make sure that PC applications function properly and that the audio signals and operations of each channel are normal.
11	Confirm user setting contents.	Being repaired to the contents before repairing.
12	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

■ Jigs List

Jig Name	Part No.	Purpose of use / Remarks
USB cable (DDE1123)	GGP1193	For PC connection (DDE1123)
Extension cable (FFC 30pin, L = 500 mm)	GGD1902	Extension cable between JOG dial (LCDL or LCDR Assy) and MAIN Assy for JOG dial rotary load measurement
Crossfader calibration jig	GGF1724	Jig for position settings of Crossfader calibration (three points except both ends)
License-key card for Service	GGP1522	For activation of rekordbox dj

■ Lubricants and Glues List

Name	Part No.	Remarks
Lubricating oil	GYA1001	Used for "9.6 JOG DIAL SECTION".
Lubricating oil	GEM1038	Used for "9.6 JOG DIAL SECTION".

DDJ-1000 Service check sheet

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Service Mode

Check contents	Check target	Operation part, Setting	Display part (LED/JOG LCD)	Display part (OLED)	Status	Check
Version display	Firmware etc.	————	————	**VERSION INFORMATION** SYSTEM DSP-P USB1 DSP-D USB2 PANEL1 BOOT PANEL2 UPDATE LCD1 LCD2	Firmware version diplay	☐ Ver.____ ☐ Ver.____ ☐ Ver.____ ☐ Ver.____ ☐ Ver.____ / ☐ Ver.____ ☐ Ver.____ ☐ Ver.____ ☐ Ver.____
All LED and LCD light off	All LED and LCD	[BEAT FX ON/OFF] [MEMORY] + [BEAT FX ON/OFF]	All LED light off except operation part. JOG LCD light off.	Display light off after "LED ALL CLEAR" display about 1 second.	Press ➡ next mode	☐
All LED and LCD light on	All LED and LCD	[BEAT FX ON/OFF] [MEMORY] + [BEAT FX ON/OFF]	All LED and LCD light on. PAD and PAD MODE in white JOG LCD in all white	Display maximum light on after "LED ALL SET" display about 1 second.	Press ➡ next mode Press ➡ previous mode	☐ ☐
		BROWSE ENCODER (L/R Decks)	All PAD and PAD MODE (L/R Decks)		Press ➡ light on in red	L / R ☐ / ☐
		BROWSE ENCODER (L/R Decks)	All PAD and PAD MODE (L/R Decks)		Turn clockwise, one click ➡ light on in green	☐ / ☐
		BROWSE ENCODER (L/R Decks)	All PAD and PAD MODE (L/R Decks)		Turn clockwise, one click ➡ light on in blue	☐ / ☐
		BROWSE ENCODER (L/R Decks)	All PAD and PAD MODE (L/R Decks)		Turn clockwise, one click ➡ light on in white	☐ / ☐
		BROWSE ENCODER (L/R Decks)	All PAD and PAD MODE (L/R Decks)		Turn clockwise, one click ➡ flash in white	☐ / ☐
KEY & PAD & JOG	Button (Self-lighting)	4BEAT LOOP/EXIT (L/R Decks)	PAD FX1 (L/R Decks)	4BEAT LOOP (L/R) / PAD FX (L/R)	Press ➡ light off	L / R ☐ / ☐ L / R ☐ / ☐
		LOOP IN•1/2X (L/R Decks)	BEAT JUMP (L/R Decks)	LOOP IN (L/R) / BEAT JUMP (L/R)		☐ / ☐ ☐ / ☐
		LOOP OUT•2X (L/R Decks)	SAMPLER (L/R Decks)	LOOP OUT (L/R) / SAMPLER (L/R)		☐ / ☐ ☐ / ☐
		SLIP REVERSE (L/R Decks)	PAGE ◄ (L/R Decks)	S.REVERSE (L/R) / PAGE ◄ (L/R)		☐ / ☐ ☐ / ☐
		CUE (L/R Decks)	PAGE ► (L/R Decks)	CUE (L/R) / PAGE ► (L/R)		☐ / ☐ ☐ / ☐
		PLAY/PAUSE ►/❚❚ (L/R Decks)	MASTER TEMPO (L/R Decks)	PLAY/PAUSE ►/❚❚ (L/R) / MSTR TEMPO (L/R)		☐ / ☐ ☐ / ☐
		QUANTIZE (L/R Decks)	BEAT SYNC (L/R Decks)	QUANTIZE (L/R) / SYNC (L/R)		☐ / ☐ ☐ / ☐
		SLIP (L/R Decks)	SOUND COLOR FX SELECT(NOISE)	SLIP (L/R) / CFX NOISE		☐ / ☐ ☐
		KEY SYNC (L/R Decks)	SOUND COLOR FX SELECT(D. ECHO)	KEY SYNC (L/R) / CFX DUB ECH		☐ / ☐ ☐
		PAD1 (L/R Decks)	SOUND COLOR FX SELECT(PITCH)	PAD1 (L/R) / CFX PITCH		☐ / ☐ ☐
		PAD2 (L/R Decks)	SOUND COLOR FX SELECT(FILTER)	PAD2 (L/R) / CFX FILTER		☐ / ☐ ☐
		PAD3 (L/R Decks)	SAMPLER CUE	PAD3 (L/R) / SAMPLER CUE		☐ / ☐ ☐
		PAD4 (L/R Decks)	HEADPHONE CUE1	PAD4 (L/R) / HP CUE1		☐ / ☐ ☐
		PAD5 (L/R Decks)	HEADPHONE CUE2	PAD5 (L/R) / HP CUE2		☐ / ☐ ☐
		PAD6 (L/R Decks)	HEADPHONE CUE3	PAD6 (L/R) / HP CUE3		☐ / ☐ ☐
		PAD7 (L/R Decks)	HEADPHONE CUE4	PAD7 (L/R) / HP CUE4		☐ / ☐ ☐
		PAD8 (L/R Decks)	MASTER CUE	PAD8 (L/R) / MASTER CUE		☐ / ☐ ☐
		HOT CUE (L/R Decks)		HOT CUE (L/R)		☐ / ☐
	Button (Not Self-lighting)	DECK (3/1 / 2/4)	(CH3/CH2) Level indicator Red	DECK (1/3 / 2/4)	Press ➡ light off	☐ / ☐
		SHIFT (L/R)	(CH3/CH2) Level indicator Orange	SHIFT (L/R)		☐ / ☐
		MEMORY (L/R)	(CH3/CH2) Level indicator Green	MEMORY (L/R)		☐ / ☐
		BROWSE PUSH (L/R)	(CH1/CH4) Level indicator Red	BROWSEPUSH (L/R)		☐ / ☐
		BACK (L/R)	(CH1/CH4) Level indicator Orange	BACK (L/R)		☐ / ☐
		VIEW (L/R)	(CH1/CH4) Level indicator Green	TAG TRACK (L/R)		☐ / ☐
		SEARCH (◄◄ L / ◄◄ R)	Master Level indicator (L/R) Red	SEARCH ◄◄ (L/R)		☐ / ☐
		SEARCH (►► L / ►► R)	Master Level indicator (L/R) Orange	SEARCH ►► (L/R)		☐ / ☐
		BEAT (◄ / ►)	Master Level indicator (L/R) Green upper	BEAT (◄ / ►)		☐ / ☐
		KEY RESET (L/R)	Master Level indicator (L/R) Green lower	KEY RESET (L/R)		☐ / ☐
	JOG	JOG (L/R) touch	JOG ring (L/R)	JOG (L/R) TOUCH	Press ➡ light off	☐ / ☐
		JOG (L/R) rotate	JOG LCD (L/R)	JOG ROT (L/R)		☐ / ☐
SW & ENCODER		[BEAT ►][BEAT ◄] [BEAT FX ON/OFF] [MEMORY] + [BEAT FX ON/OFF]			Press ➡ Group switch Press ➡ next mode Press ➡ previous mode	
	<Group 1> INPUT SELECT CH1 to 4	[USB A] [PHONO/LINE] [USB B]	CH1 to 4 Level indicator LED	SW ENCODER 1 INPTSELECT	Switch ➡ light on Red Switch ➡ light on Orange Switch ➡ light on Green	CH1/CH2/CH3/CH4 ☐ / ☐ / ☐ / ☐ ☐ / ☐ / ☐ / ☐ ☐ / ☐ / ☐ / ☐
	MIC	[OFF] [ON] [TALK OVER]	HEADPHONE CUE1 to 4 LED Master Level indicator LED MASTER CUE LED		Light off after confirmation Switch ➡ light on Red Switch ➡ light on Orange Switch ➡ light on Green Light off after confirmation	☐ / ☐ / ☐ / ☐ ☐ / ☐ / ☐ / ☐ ☐ / ☐ / ☐ / ☐ ☐ / ☐ / ☐ / ☐ ☐
	<Group 2> CH FADER Assign CH1 to 4	[Assign A] [THRU] [Assign B]	CH1 to 4 Level indicator LED HEADPHONE CUE1 to 4 LED	SW ENCODER 2 C.F ASSIGN	Switch ➡ light on Red Switch ➡ light on Orange Switch ➡ light on Green Light off after confirmation	CH1/CH2/CH3/CH4 ☐ / ☐ / ☐ / ☐ ☐ / ☐ / ☐ / ☐ ☐ / ☐ / ☐ / ☐ ☐ / ☐ / ☐ / ☐
	LINE/PHONO CH3	[LINE] [PHONO]	Master Level indicator L LED SAMPLER CUE LED		Switch ➡ light on Orange Switch ➡ light on Green Light off after confirmation	☐ ☐ ☐
	LINE/PHONO CH4	[LINE] [PHONO]	Master Level indicator R LED MASTER CUE LED		Switch ➡ light on Orange Switch ➡ light on Green Light off after confirmation	☐ ☐ ☐
	<Group 3> BEAT FX SELECT	[LOW CUT ECHO]	CH3 Level indicator LED	SW ENCODER 3 BEAT FX	Switch ➡ light on Green	☐
		[ECHO]	CH3 Level indicator LED		Switch ➡ light on Orange	☐
		[MT DELAY]	CH3 Level indicator LED		Switch ➡ light on Red	☐
		[SPIRAL]	CH1 Level indicator LED		Switch ➡ light on Green	☐
		[REVERB]	CH1 Level indicator LED		Switch ➡ light on Orange	☐
		[TRANS]	CH1 Level indicator LED		Switch ➡ light on Red	☐
		[ENIGMA JET]	CH2 Level indicator LED		Switch ➡ light on Green	☐
		[FLANGER]	CH2 Level indicator LED		Switch ➡ light on Orange	☐
		[PHASER]	CH2 Level indicator LED		Switch ➡ light on Red	☐
		[PITCH]	CH4 Level indicator LED		Switch ➡ light on Green	☐
		[SLIP ROLL]	CH4 Level indicator LED		Switch ➡ light on Orange	☐
		[ROLL]	CH4 Level indicator LED		Switch ➡ light on Red	☐
		[MOBIUS ↘]	Master Level indicator LR LED		Switch ➡ light on Green	☐
		[MOBIUS ↗]	Master Level indicator LR LED		Switch ➡ light on Orange	☐
			MASTER CUE LED		Light off after confirmation	☐
	<Group 4> BROWSE ENCODER	[BROWSE ENCODER L]	CH1 Level indicator LED HEADPHONE CUE1 LED CH3 Level indicator LED HEADPHONE CUE3 LED	SW ENCODER 4 ENCODER	Turn clockwise ➡ LED light on clockwise Light off after confirmation Turn counterclockwise ➡ LED light on counterclockwise Light off after confirmation	☐ ☐ ☐ ☐
		[BROWSE ENCODER R]	CH2 Level indicator LED HEADPHONE CUE4 LED CH4 Level indicator LED HEADPHONE CUE2 LED		Turn clockwise ➡ LED light on clockwise Light off after confirmation Turn counterclockwise ➡ LED light on counterclockwise Light off after confirmation	☐ ☐ ☐ ☐

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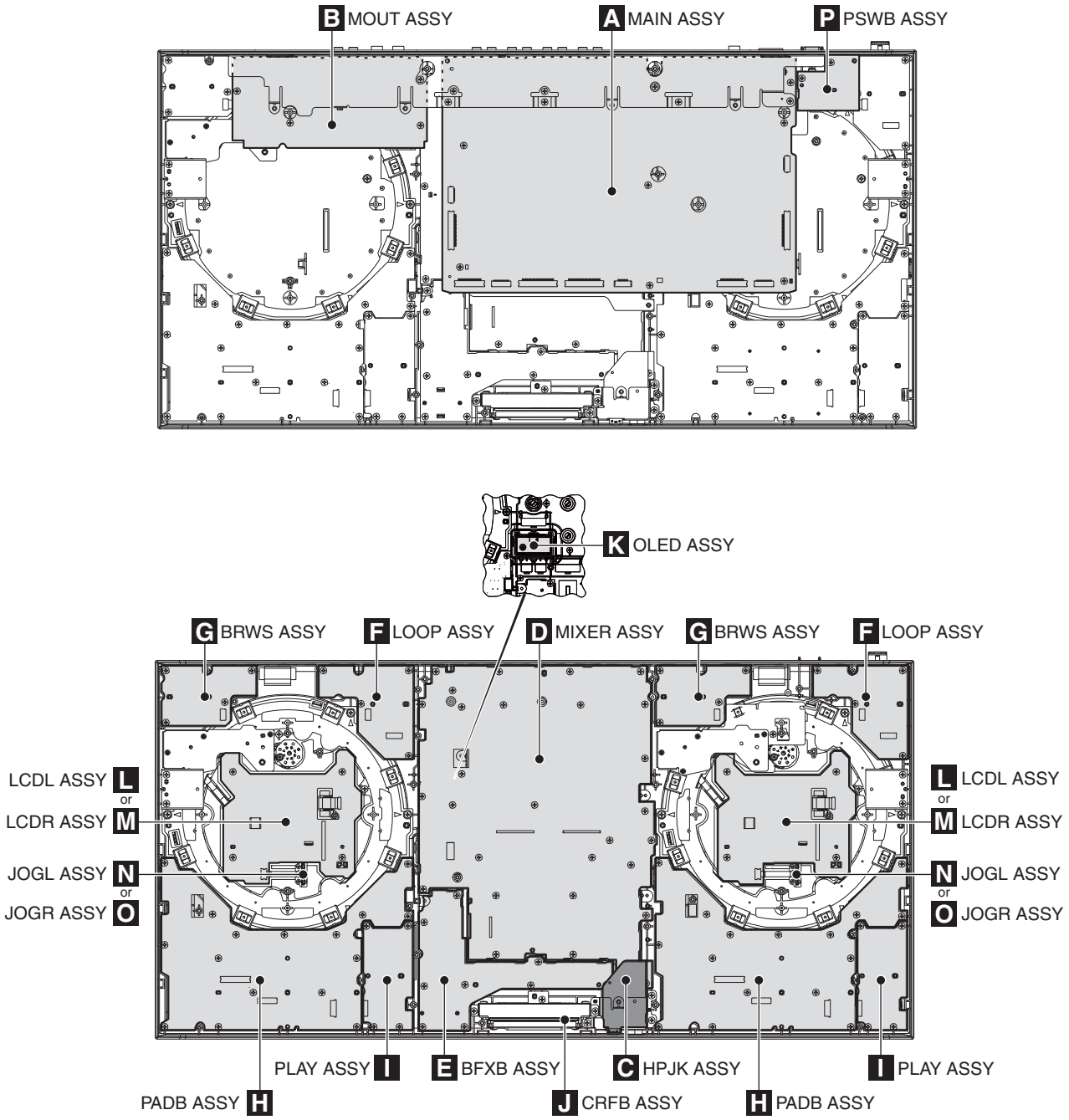
Service mode

Check contents	Check target	Operation part, Setting	Display part (LED/JOG LCD)	Display part (OLED)	Status	Check
VOL & FADER		[BEAT ►][BEAT ◄] [BEAT FX ON/OFF] [MEMORY] + [BEAT FX ON/OFF]			Press ➡ Group switch Press ➡ next mode Press ➡ previous mode	
	<Group 1> TRIM MIC			VOL FADER 1 TRIM MIC		
		[CH1 TRIM]	CH1 Level indicator LED HEADPHONE CUE1 LED		Set to VR position ➡ Display with range of -∞ (Lights off) to +9 (Full Illuminate) Light off after confirmation	□ □
		[CH2 TRIM]	CH2 Level indicator LED HEADPHONE CUE2 LED		Set to VR position ➡ Display with range of -∞ (Lights off) to +9 (Full Illuminate) Light off after confirmation	□ □
		[CH3 TRIM]	CH3 Level indicator LED HEADPHONE CUE3 LED		Set to VR position ➡ Display with range of -∞ (Lights off) to +9 (Full Illuminate) Light off after confirmation	□ □
		[CH4 TRIM]	CH4 Level indicator LED HEADPHONE CUE4 LED		Set to VR position ➡ Display with range of -∞ (Lights off) to +9 (Full Illuminate) Light off after confirmation	□ □
		[MIC EQ HI]	Master Level indicator L CH LED SAMPLER CUE LED		Set to VR position ➡ Display with range of -12 (Lights off) to +12 (Full Illuminate) Light off after confirmation	□ □
		[MIC EQ LOW]	Master Level indicator R CH LED MASTER CUE LED		Set to VR position ➡ Display with range of -12 (Lights off) to +12 (Full Illuminate) Light off after confirmation	□ □
	<Group 2> HI EFFECT			VOL FADER 2 HI EFFECT		
		[CH1 EQ HI]	CH1 Level indicator LED HEADPHONE CUE1 LED		Set to VR position ➡ Display with range of -26/-∞ (Lights off) to +6 (Full Illuminate) Light off after confirmation	□ □
		[CH2 EQ HI]	CH2 Level indicator LED HEADPHONE CUE2 LED		Set to VR position ➡ Display with range of -26/-∞ (Lights off) to +6 (Full Illuminate) Light off after confirmation	□ □
		[CH3 EQ HI]	CH3 Level indicator LED HEADPHONE CUE3 LED		Set to VR position ➡ Display with range of -26/-∞ (Lights off) to +6 (Full Illuminate) Light off after confirmation	□ □
		[CH4 EQ HI]	CH4 Level indicator LED HEADPHONE CUE4 LED		Set to VR position ➡ Display with range of -26/-∞ (Lights off) to +6 (Full Illuminate) Light off after confirmation	□ □
		[EFFECT SELECT CH SW]	Master Level indicator L CH LED SAMPLER CUE LED		Set to VR position ➡ Display with range of -12/-∞ (Lights off) to +12 (Full Illuminate) Light off after confirmation	□ □
		[EFFECT LEVEL/DEPTH]	Master Level indicator R CH LED MASTER CUE LED		Set to VR position ➡ Display with range of -12/-∞ (Lights off) to +12 (Full Illuminate) Light off after confirmation	□ □
	<Group 3> MID HP			VOL FADER 3 MID HP		
		[CH1 EQ MID]	CH1 Level indicator LED HEADPHONE CUE1 LED		Set to VR position ➡ Display with range of -26/-∞ (Lights off) to +6 (Full Illuminate) Light off after confirmation	□ □
		[CH2 EQ MID]	CH2 Level indicator LED HEADPHONE CUE2 LED		Set to VR position ➡ Display with range of -26/-∞ (Lights off) to +6 (Full Illuminate) Light off after confirmation	□ □
		[CH3 EQ MID]	CH3 Level indicator LED HEADPHONE CUE3 LED		Set to VR position ➡ Display with range of -26/-∞ (Lights off) to +6 (Full Illuminate) Light off after confirmation	□ □
		[CH4 EQ MID]	CH4 Level indicator LED HEADPHONE CUE4 LED		Set to VR position ➡ Display with range of -26/-∞ (Lights off) to +6 (Full Illuminate) Light off after confirmation	□ □
		[HEAD PHONES MIXING]	Master Level indicator L CH LED SAMPLER CUE LED		Set to VR position ➡ Display with range of CUE (Lights off) to MASTER (Full Illuminate) Light off after confirmation	□ □
		[HEAD PHONES LEVEL]	Master Level indicator R CH LED MASTER CUE LED		Set to VR position ➡ Display with range of -∞ (Lights off) to 0 (Full Illuminate) Light off after confirmation	□ □
	<Group 4> LOW LEVEL			VOL FADER 4 LOW LEVEL		
		[CH1 EQ LOW]	CH1 Level indicator LED HEADPHONE CUE1 LED		Set to VR position ➡ Display with range of -26/-∞ (Lights off) to +6 (Full Illuminate) Light off after confirmation	□ □
		[CH2 EQ LOW]	CH2 Level indicator LED HEADPHONE CUE2 LED		Set to VR position ➡ Display with range of -26/-∞ (Lights off) to +6 (Full Illuminate) Light off after confirmation	□ □
		[CH3 EQ LOW]	CH3 Level indicator LED HEADPHONE CUE3 LED		Set to VR position ➡ Display with range of -26/-∞ (Lights off) to +6 (Full Illuminate) Light off after confirmation	□ □
		[CH4 EQ LOW]	CH4 Level indicator LED HEADPHONE CUE4 LED		Set to VR position ➡ Display with range of -26/-∞ (Lights off) to +6 (Full Illuminate) Light off after confirmation	□ □
		[BOOTH MONITOR LEVEL]	Master Level indicator L CH LED SAMPLER CUE LED		Set to VR position ➡ Display with range of -∞ (Lights off) to 0 (Full Illuminate) Light off after confirmation	□ □
		[MASTER LEVEL]	Master Level indicator R CH LED MASTER CUE LED		Set to VR position ➡ Display with range of -∞ (Lights off) to 0 (Full Illuminate) Light off after confirmation	□ □
	<Group 5> COLOR TMPO			VOL FADER 5 COLOR TMPO		
		[CH1 COLOR]	CH1 Level indicator LED HEADPHONE CUE1 LED		Set to VR position ➡ Display with range of -LOW (Lights off) to HI (Full Illuminate) Light off after confirmation	□ □
		[CH2 COLOR]	CH2 Level indicator LED HEADPHONE CUE2 LED		Set to VR position ➡ Display with range of -LOW (Lights off) to HI (Full Illuminate) Light off after confirmation	□ □
		[CH3 COLOR]	CH3 Level indicator LED HEADPHONE CUE3 LED		Set to VR position ➡ Display with range of -LOW (Lights off) to HI (Full Illuminate) Light off after confirmation	□ □
		[CH4 COLOR]	CH4 Level indicator LED HEADPHONE CUE4 LED		Set to VR position ➡ Display with range of -LOW (Lights off) to HI (Full Illuminate) Light off after confirmation	□ □
		[TEMPO SLIDER1]	Master Level indicator L CH LED SAMPLER CUE LED		Set to VR position ➡ Display with range of MIN (Lights off) to MAX (Full Illuminate) Light off after confirmation	□ □
		[TEMPO SLIDER2]	Master Level indicator R CH LED MASTER CUE LED		Set to VR position ➡ Display with range of MIN (Lights off) to MAX (Full Illuminate) Light off after confirmation	□ □
	<Group 6> SMPL FADER			VOL FADER 6 SMPL FADER		
		[CH1 FADER]	CH1 Level indicator LED HEADPHONE CUE1 LED		Set to VR position ➡ Display with range of -LOW (Lights off) to HI (Full Illuminate) Light off after confirmation	□ □
		[CH2 FADER]	CH2 Level indicator LED HEADPHONE CUE2 LED		Set to VR position ➡ Display with range of -LOW (Lights off) to HI (Full Illuminate) Light off after confirmation	□ □
		[CH1 FADER]	CH3 Level indicator LED HEADPHONE CUE3 LED		Set to VR position ➡ Display with range of -LOW (Lights off) to HI (Full Illuminate) Light off after confirmation	□ □
		[CH1 FADER]	CH4 Level indicator LED HEADPHONE CUE4 LED		Set to VR position ➡ Display with range of -LOW (Lights off) to HI (Full Illuminate) Light off after confirmation	□ □
		[SAMPLER VOL]	Master Level indicator L CH LED SAMPLER CUE LED		Set to VR position ➡ Display with range of -∞ (Lights off) to 0 (Full Illuminate) Light off after confirmation	□ □
		[CROSS FADER]	Master Level indicator R CH LED MASTER CUE LED		Set to VR position ➡ Display with range of Left (Lights off) to Right (Full Illuminate) Light off after confirmation	□ □
LCD pattern		[BEAT ►][BEAT ◄] [BEAT FX ON/OFF] [MEMORY] + [BEAT FX ON/OFF]	————			
	<Group 1>	[BEAT ►] or [BEAT ◄]		LCD 1 MONO	Press ➡ Monochrome 7 colorbar display	□
	<Group 2>	[BEAT ►] or [BEAT ◄]		LCD 2 COLOR	Press ➡ Color 7 colorbar display	□
	<Group 3>	[BEAT ►] or [BEAT ◄]		LCD 3 BLACK	Press ➡ Black screen display	□
	<Group 4>	[BEAT ►] or [BEAT ◄]		LCD 4 WHITE	Press ➡ White screen display	□
	<Group 5>	[BEAT ►] or [BEAT ◄]		LCD 5 RED	Press ➡ Red screen display	□
	<Group 6>	[BEAT ►] or [BEAT ◄]		LCD 6 GREEN	Press ➡ Green screen display	□
	<Group 7>	[BEAT ►] or [BEAT ◄]		LCD 7 BLUE	Press ➡ Blue screen display	□

3.3 PCB LOCATIONS



注意：
LCD、JOG の L と R は回路そのもの、使用部品、基板形状は同じです。
部品番号と配線番号が違うため印刷内容が異なります。
生産上は L と R の ASSY を管理していません。
このためそれぞれの場所には L と R どちらかの ASSY が配置されています。

Note:
The L and R Assys of LCD and JOG Assys have the same circuitry, parts, and board shapes.
Only printed information is different, because their part numbers and wiring numbers are different.
They are handled similarly in their production management.
Therefore, either L or R Assy of the respective Assys is assembled in the respective place.

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.*

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	MAIN ASSY	DWX4104
NSP	1	DISP ASSY	DWM2671
	2	LCDL ASSY	DWX4105
	2	LCDR ASSY	DWX4118
	2	OLED ASSY	DWX4106
NSP	1	DECPAD ASSY	DWM2672
	2	LOOP ASSY	DWX4108
	2	BRWS ASSY	DWX4109
	2	PADB ASSY	DWX4110
	2	PLAY ASSY	DWX4111
	1	MIXER ASSY	DWX4112
NSP	1	SUB ASSY	DWM2674
	2	JOGL ASSY	DWX4113
	2	PSWB ASSY	DWX4114
	2	MOUT ASSY	DWX4115
	2	HPJK ASSY	DWX4116
	2	BFXB ASSY	DWX4117
	2	JOGR ASSY	DWX4119
	1	CROSS FADER SERVICE ASSY	DEA1088
NSP	2	CRFB ASSY	DWX4107

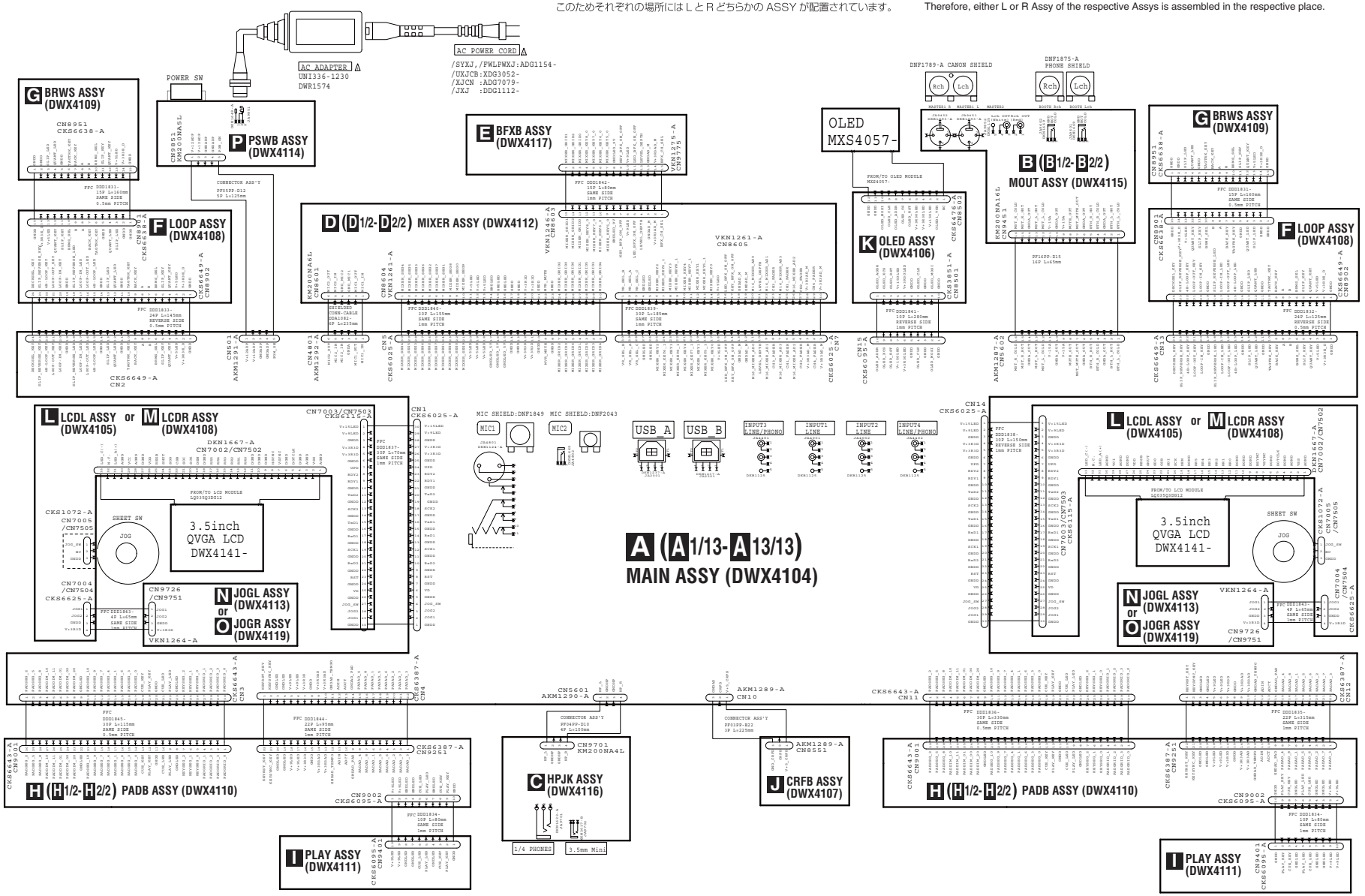
4. BLOCK DIAGRAM

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

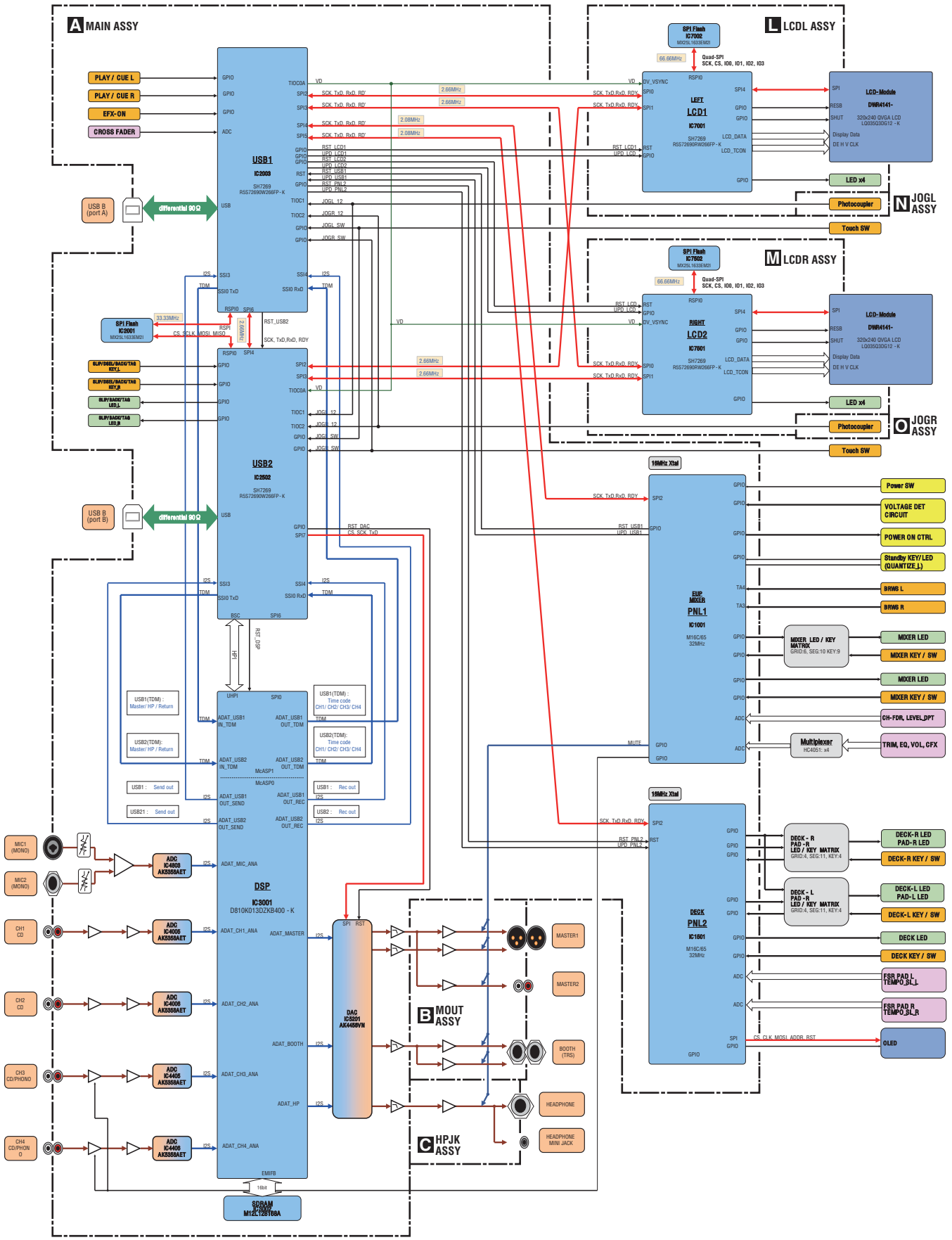
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The △ mark found on some component parts indicates the importance of the safety factor of the part.
  Therefore, when replacing, be sure to use parts of identical designation.
- ⬭ : The power supply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

注意：
LCD、JOG のＬとＲは回路そのもの、使用部品、基板形状は同じです。
部品番号と配線番号が違うため印刷内容が異なります。
生産上はＬとＲの ASSY を管理していません。
このためそれぞれの場所にはＬとＲどちらかの ASSY が配置されています。

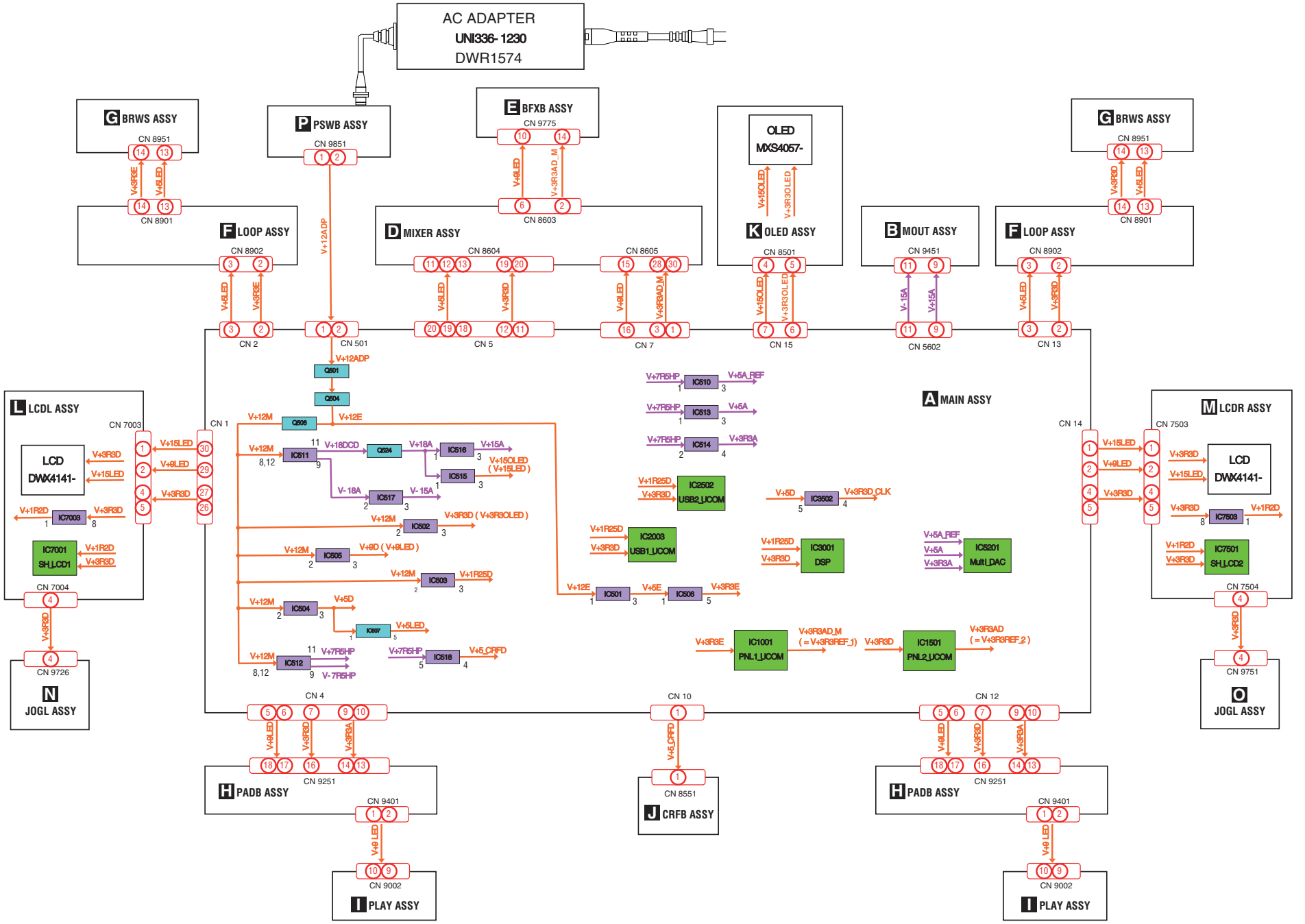
Note:
The L and R Assys of LCD and JOG Assys have the same circuitry, parts, and board shapes.
Only printed information is different, because their part numbers and wiring numbers are different.
They are handled similarly in their production management.
Therefore, either L or R Assy of the respective Assys is assembled in the respective place.



4.2 SIGNAL BLOCK DIAGRAM



4.3 POWER BLOCK DIAGRAM



DDJ-1000

4.4 MATRIX INFORMATION

[1] Key matrix information

	Key Matrix						
	M16 EUP/MIXER	**MIXER_GRID0**	**MIXER_GRID1**	**MIXER_GRID2**	**MIXER_GRID3**	**MIXER_GRID4**	**MIXER_GRID5**
IC1001 PNL1	MIXER_KEY0	MIC ON/OFF /TALKOVER		IN1 SELECT		IN3 SELECT	
	MIXER_KEY1	IN2 SELECT		IN4 SELECT		INPUT3 LINE/PHONO SW	
	MIXER_KEY2	CH1_CUE	CH2_CUE	CH3_CUE	CH4_CUE	SAM CUE	MAS CUE
	MIXER_KEY3	CFX 1	CFX 3	CFX 4	CFX 1	CFX 3	CFX 4
	MIXER_KEY4	CFX 2	beat ◄	beat ►	CFX 2	beat ◄	beat ►
	MIXER_KEY5	CH1 CF ASSIGN		BFX FX SELECT			
	MIXER_KEY6	CH2 CF ASSIGN					
	MIXER_KEY7	CH3 CF ASSIGN					
	MIXER_KEY8	CH4 CF ASSIGN					

	Key Matrix				
	M16 DECKS	**PADGRID_0**	**PADGRID_1**	**PADGRID_2**	**PADGRID_3**
IC1501 PNL2	KEYSEG_0_L	SHIFT_L	PAD MODE1_L (HOT CUE_L)	PARAMETER LEFT_L	TRACK SEARCH FWD_L
	KEYSEG_1_L	MEMORY_L	PAD MODE2_L (PAD FX_L)	PARAMETER RIGHT_L	MASTER TEMPO_L
	KEYSEG_2_L	TRACK SEARCH BACK_L	PAD MODE3_L (BEAT JUMP_L)	PAD MODE4_L	BEAT SYNC_L
	KEYSEG_0_R	SHIFT_R	PAD MODE1_R (HOT CUE_R)	PARAMETER LEFT_R	TRACK SEARCH FWD_R
	KEYSEG_1_R	MEMORY_R	PAD MODE2_R (PAD FX_R)	PARAMETER RIGHT_R	MASTER TEMPO_R
	KEYSEG_2_L	TRACK SEARCH BACK_R	PAD MODE3_R (BEAT JUMP_R)	PAD MODE4_R (SAMPLER_R)	BEAT SYNC_R

		※ Elements Name	**Signal Name**
IC1001 PNL1	**KEY direct**	QUANT_KEY_L	QUANTIZE_L_STBY_KEY
		QUANT_KEY_R	QQUANTIZE_R_KEY
		VR_SEL_A	
		VR_SEL_B	
		VR_SEL_C	
		KEYRST_KEY_L	KEY RESET_L_KEY
		KEYSYNC_KEY_L	KEY SYNC_L_KEY
		BROWSE_L	BROWSE1_L
		BROWSE_L	BROWSE2_L
		BROWSE_PUSH_L	BROWSE_PUSH_L
		KEYRST_KEY_R	KEY RESET_R_KEY
		KEYSYNC_KEY_R	KEY SYNC_R_KEY
		BROWSE1_R	BROWSE1_R
		BROWSE2_R	BROWSE2_R
		BROWSE_PUSH_R	BROWSE_PUSH_R

※ When you search it, search it except _L , _R.

		※ Elements Name	**Signal Name**
IC1501 PNL2	**KEY direct**	4BEAT LOOP/EXIT_L	4BEAT LOOP/EXIT_L_KEY
		LOOP IN1/2X_L	LOOP IN_L_KEY
		LOOP OUT2X_L	LOOP OUT_L_KEY
		SLIP REVERSE_L	SLIP REVERSE_L_KEY
		4BEAT LOOP/EXIT_R	4BEAT LOOP/EXIT_R_KEY
		LOOP IN1/2X_R	LOOP IN_R_KEY
		LOOP OUT2X_R	LOOP OUT_R_KEY
		SLIP REVERSE_R	SLIP REVERSE_R_KEY

※ When you search it, search it except _L , _R.

		※ Elements Name	**Signal Name**
IC2003 USB 1	**KEY direct**	PLAY_L	PLAY_L_KEY
		CUE_L	CUE_L_KEY
		PLAY_R	PLAY_R_KEY
		CUE_R	CUE_R_KEY

※ When you search it, search it except _L , _R.

		※ Elements Name	**Signal Name**
IC2502 USB 2	**KEY direct**	SLIP_L	SLIP_KEY_L
		DECK_L	DECKSEL_KEY_L
		BACK_L	BACK_KEY_L
		VIEW_L	VIEW_KEY_L
		SLIP_R	SLIP_KEY_R
		DECK_R	DECKSEL_KEY_R
		BACK_R	BACK_KEY_R
		VIEW_R	VIEW_KEY_R

※ When you search it, search it except _L , _R.

[2] LED matrix information

	LED Matrix						
	M16 EUP/MIXER	MIXER_GRID0	MIXER_GRID1	MIXER_GRID2	MIXER_GRID3	MIXER_GRID4	MIXER_GRID5	MIXER_GRID6
IC1001 PNL1	MIXER_SEG0	CH1 15	CH1 15	CH3 15	CH4 15	MAS L 15	MAS R 15	TALK OVER
	MIXER_SEG1	CH1 12	CH2 12	CH3 12	CH4 12	MAS L 12	MAS R 12	CLIP
	MIXER_SEG2	CH1 9	CH2 9	CH3 9	CH4 9	MAS L 9	MAS R 9	
	MIXER_SEG3	CH1 6	CH2 6	CH3 6	CH4 6	MAS L 6	MAS R 6	
	MIXER_SEG4	CH1 0	CH2 0	CH3 0	CH4 0	MAS L 0	MAS R 0	
	MIXER_SEG5	CH1 -6	CH2 -6	CH3 -6	CH4 -6	MAS L -6	MAS R -6	CFX1
	MIXER_SEG6	CH1 -12	CH2 -12	CH3 -12	CH4 -12	MAS L -12	MAS R -12	CFX2
	MIXER_SEG7	CH1 -18	CH2 -18	CH3 -18	CH4 -18	MAS L -18	MAS R -18	CFX4
	MIXER_SEG8	CH1 -24	CH2 -24	CH3 -24	CH4 -24	MAS L -24	MAS R -24	CFX3
	MIXER_SEG9	CH1_ CUE	CH2_ CUE	CH3_ CUE	CH4_ CUE		MAS_CUE	SAM_CUE

	PAD LED Matrix_L				
	M16 DECKS	PADGRID_0	PADGRID_1	PADGRID_2	PADGRID_3
IC1501 PNL2	PADSEG_0	PAD MODE1_R	PAD MODE2_R	PAD MODE3_R	PAD MODE4_R
	PADSEG_1	PAD1R	PAD2R	PAD3R	PAD4R
	PADSEG_2	PAD5R	PAD6R	PAD7R	PAD8R
	PADSEG_3	PAD MODE1_G	PAD MODE2_G	PAD MODE3_G	PAD MODE4_G
	PADSEG_4	PAD1G	PAD2G	PAD3G	PAD4G
	PADSEG_5	PAD5G	PAD6G	PAD7G	PAD8G
	PADSEG_6	PAD MODE1_B	PAD MODE2_B	PAD MODE3_B	PAD MODE4_B
	PADSEG_7	PAD1B	PAD2B	PAD3B	PAD4B
	PADSEG_8	PAD5B	PAD6B	PAD7B	PAD8B
	PADSEG_9	Para <	Para >	MODE-TeMODEpo	Beat-snc
	PADSEG_10	Key-snc			POSI-RST

※ PAD MODE1 to 4 are equipped for each following function of the main unit key.

PAD MODE1	PAD MODE2	PAD MODE3	PAD MODE4
HOT CUE	PAD FX1	BEAT JUMP	SAMPLER

	PAD LED Matrix_R				
	M16 DECKS	PADGRID_0	PADGRID_1	PADGRID_2	PADGRID_3
IC1501 PNL2	PADSEG_0	Pad1M_R	Pad2M_R	Pad3M_R	Pad4M_R
	PADSEG_1	Pad1R	Pad2R	Pad3R	Pad4R
	PADSEG_2	Pad5R	Pad6R	Pad7R	Pad8R
	PADSEG_3	Pad1M_G	Pad2M_G	Pad3M_G	Pad4M_G
	PADSEG_4	Pad1G	Pad2G	Pad3G	Pad4G
	PADSEG_5	Pad5G	Pad6G	Pad7G	Pad8G
	PADSEG_6	Pad1M_B	Pad2M_B	Pad3M_B	Pad4M_B
	PADSEG_7	Pad1B	Pad2B	Pad3B	Pad4B
	PADSEG_8	Pad5B	Pad6B	Pad7B	Pad8B
	PADSEG_9	Para <	Para >	M-Tempo	Beat-snc
	PADSEG_10	Key-snc			POSI-RST

※ PAD MODE1 to 4 are equipped for each following function of the main unit key.

PAD MODE1	PAD MODE2	PAD MODE3	PAD MODE4
HOT CUE	PAD FX1	BEAT JUMP	SAMPLER

		※ Elements Name	Signal Name
IC1001 PNL1	LED direct	EFFECT ON/OFF	FX ON/OFF_LED
		QUANTIZE_L	QUANTIZE_L_STBY_LED
		QUANTIZE_R	QUANTIZE_R_STBY_LED

※ When you search it, search it except _L , _R.

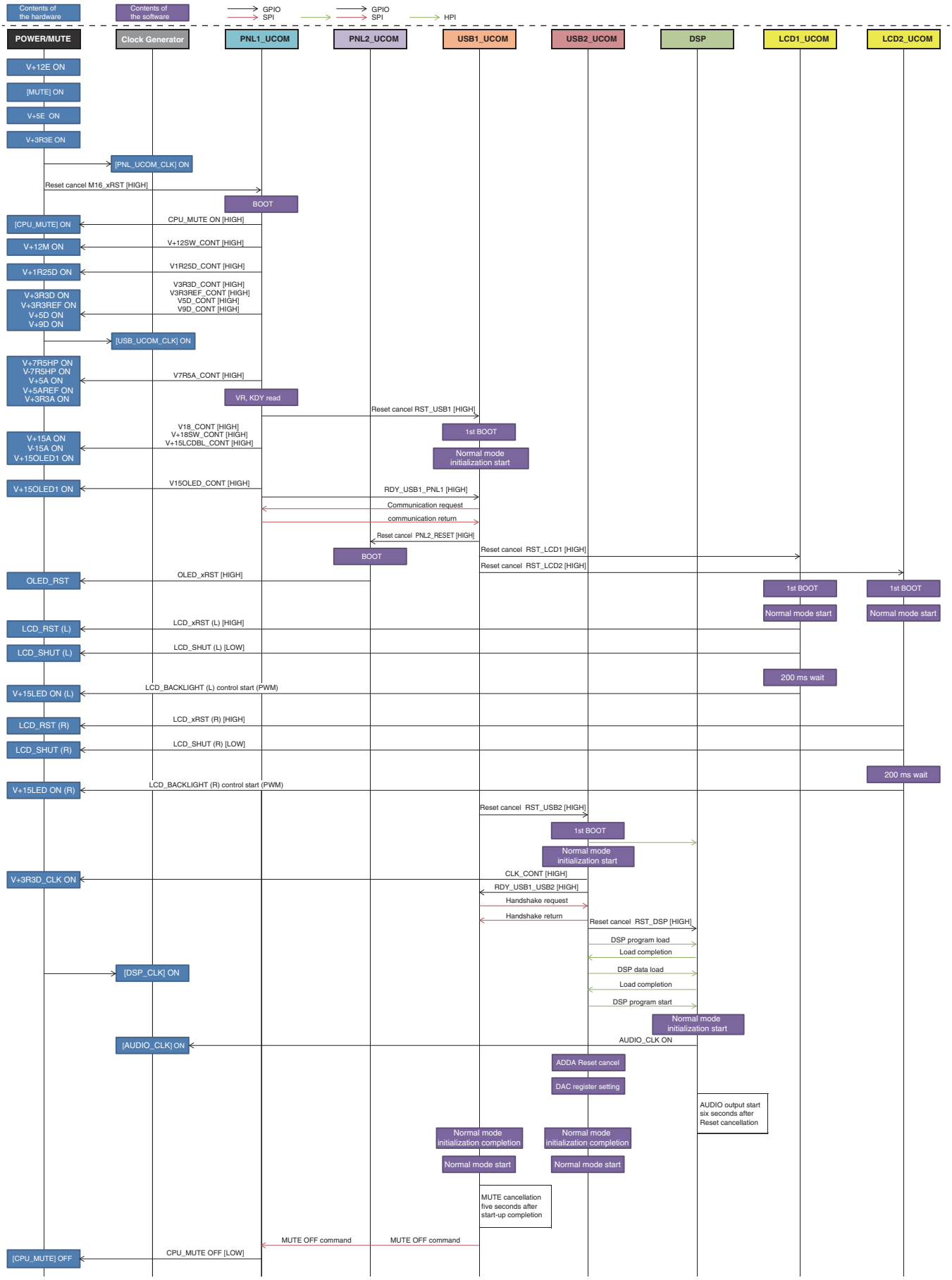
		※ Elements Name	Signal Name
IC1501 PNL2	LED direct	4BEAT LOOP/EXIT_L	4BEAT LOOP/EXIT_L_LED
		LOOP IN1/2X_L	LOOP IN_L_LED
		LOOP OUT2X_L	LOOP OUT_L_LED
		SLIP REVERSE_L	SLIP REVERSE_L_LED
		4BEAT LOOP/EXIT_R	4BEAT LOOP/EXIT_R_LED
		LOOP IN1/2X_R	LOOP IN_R_LED
		LOOP OUT2X_R	LOOP OUT_R_LED

※ When you search it, search it except _L , _R.

		※ Elements Name	Signal Name
IC2502 USB 2	LED direct	PLAY_L	PLAY_L_LED
		CUE_L	CUE_L_LED
		PLAY_R	PLAY_R_LED
		CUE_R	CUE_R_LED
		SLIP_L	SLIP_LED_L
		SLIP_R	SLIP_LED_R

※ When you search it, search it except _L , _R.

5. DIAGNOSIS
5.1 STARTUP SEQUENCE



5.2 TROUBLESHOOTING

Contents

※ Point to be checked – Assys are classified with prefix.

[1-**] MAIN Assy	[8-**] MAIN Assy
[2-**] MAIN Assy	LCDL Assy
[3-**] MAIN Assy	LCDR Assy
[4-**] MAIN Assy	JOGL Assy
MOUT Assy	JOGR Assy
HPJK Assy	[9-**] MAIN Assy
[5-**] MAIN Assy	LOOP Assy
[6-**] OLED Assy	BRWS Assy
[7-**] CRFB Assy	PADB Assy
	PLAY Assy

[0] Prior Confirmation

[0-1] Checking Internal Cables

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Disconnection, breakage, or loose connection of internal cables	Relevant part	Check that all the cables are securely connected. Check whether FFC with locking mechanism is locked surely. Check that there is no breakage in the cables.	Securely connect the cables. Lock FFC with locking mechanism surely. If a cable is broken, replace it.	4.1 OVERALL CONNECTION DIAGRAM

[0-2] Prior confirmation of the power

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Failure in the power source corresponding to the defective location	Power to the IC, etc. that is assumed to be defective	Check if there is a problem in power supplied to the location to be diagnosed.	If there is any problem, check the power source, referring to the "POWER BLOCK DIAGRAM" then repair.	4.3 POWER BLOCK DIAGRAM 5.4 VOLTAGE MONITORING CIRCUIT

[1] Trouble in Startup

※ See "5.1 STARTUP SEQUENCE", "5.5 ERROR DISPLAY"

[1-1] The unit dose not turn on, QUANTIZE (WAKE UP) LED is light off state.

V+12E power failure or PNL1 UCOM (IC1001) startup error may be suspected.
And, if QUANTIZE (WAKE UP) on Left Deck is flashing, refer to "5.4 VOLTAGE MONITORING CIRCUIT".

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Power failure, Jumper failure	MAIN Assy CN501 - pin 1 [1-1]	Check for the V+12_ADP1 power signal.	• If the V+12_ADP1 can be confirmed, go to [2]. • If the V+12_ADP1 cannot be confirmed, AC adapter or P9851 may be defective. Replace it.	4.3 POWER BLOCK DIAGRAM
2	Power failure	MAIN Assy Q501 - pin 1 [1-2]	Check for the V+12_ADP2 power signal.	• If the V+12_ADP2 can be confirmed, go to [3]. • If the V+12_ADP2 cannot be confirmed, Q501 may be defective. Check for the status of soldering and replace it.	4.3 POWER BLOCK DIAGRAM
3	Power failure	MAIN Assy Q504 - pin 6 [1-3]	Check for the V+12E power signal.	• If the V+12E can be confirmed, go to [4]. • If the V+12E cannot be confirmed, Q504 may be defective. Check for the status of soldering and replace it.	4.3 POWER BLOCK DIAGRAM
4	Power failure	MAIN Assy IC501 - pin 3 [1-4]	Check for the V+5E power signal.	• If the V+5E can be confirmed, go to [5]. • If the V+5E cannot be confirmed, IC501 may be defective. Check for the status of soldering and replace it.	4.3 POWER BLOCK DIAGRAM
5	RESET signal error	MAIN Assy IC506 - pin 5 [1-5]	Check for the V+3R3E power signal.	• If the V+3R3E can be confirmed, go to [6]. • If the V+3R3E cannot be confirmed, IC506 may be defective. Check for the status of soldering and replace it.	————
6	16 MHz CLK error	MAIN Assy X1001 - pin 3 [1-6]	Check for the 16M_CLK signal. (16 MHz oscillation waveform at 1.65 V center)	• If the output signal can be confirmed, go to [7]. • If the output signal cannot be confirmed, Crystal (X1001) may be defective. Check for the status of soldering and replace it.	————
7	PNL1 UCOM RESET	MAIN Assy IC1002 - pin 1 [1-7]	Check if the RST_PNL1 signal is "H".	• If it is "L", IC1002 may be defective. Check for the status of soldering and replace it.	————
8	PNL1 UCOM defective	MAIN Assy	If the symptom persists after the above corrections.	• If the PNL1 UCOM (IC1001) may be defective. Check for the status of soldering and replace it.	————

[2] Communication error display of the microcomputer

Error is not displayed on OLED. Check the status with the three LEDs on MAIN Assy.
As for the diagnosis of MAIN Assy, necessary disassembly of MAIN Assy. Refer to "5.3 MAIN ASSY DIAGNOSIS METHOD".

[2-1] MAIN D2001 is not flashing (Light on state, Light off state)

Communication error between each ICs.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	USB1_CLK error	MAIN Assy IC2003 - pin 84 [2-1]	Check for the USB1_CLK signal. (13.33 MHz oscillation waveform at 1.65 V center)	• If the output signal can be confirmed, go to [2]. • If the output signal cannot be confirmed, Crystal (X2002) may be defective. Check for the status of soldering and replace it.	10.30 WAVEFORMS [2-1]
2	Reset communication error between PNL1 UCOM and USB1 UCOM	MAIN Assy IC2003 - pin 88 [2-2] TEST POINT	Check if the RST_USB1 signal is "H".	• If it is "H", go to [3]. • If it is "L", check the communication line between PNL1 UCOM (IC1001) and USB1 UCOM (IC2003).	————
3	Communication error between USB1 UCOM and SPI FLASH	MAIN Assy [2-3]	————	• It is the abnormality of the communication line between USB1 UCOM (IC2003) and SPI FLASH (IC2001). Check for the status of soldering and replace it. Still when it is not repaired, replace MAIN Assy.	————

[2-2] MAIN D2501 is not flashing (Light on state, Light off state)

Communication error between each ICs.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	USB2_CLK error	MAIN Assy IC2502 - pin 84 (R2629) 2-4	Check for the USB2_CLK signal. (13.33 MHz oscillation waveform at 1.65 V center)	• If the output signal can be confirmed, go to [2]. • If the output signal cannot be confirmed, Crystal (X2002) may be defective. Check for the status of soldering and replace it.	10.30 WAVEFORMS 2-4
2	Reset communication error between USB1 UCOM and USB2 UCOM	MAIN Assy IC2502 - pin 88 TEST POINT 2-5	Check if theRST_USB2 signal is "H".	• If it is "H", go to [3]. • If it is "L", check for the communication line between PNL1 UCOM (IC1001) and USB2 UCOM (IC2502).	————
3	Communication error between USB2 UCOM and SPI FLASH	MAIN Assy 2-6	————	• It is the abnormality of the communication line between USB2 UCOM (IC2502) and SPI FLASH (IC2001). Check for the status of soldering and replace it. Still when it is not repaired, replace MAIN Assy.	————

[2-3] MAIN D3001 is not flashing (Light on state, Light off state)

Communication error between each ICs.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	DSP CLK error	MAIN Assy R3513 2-7	Check for the DSP_PLL signal. (16.9344 MHz oscillation waveform at 1.65 V center)	• If the output signal can be confirmed, go to [6]. • If the output signal cannot be confirmed, Crystal (X3501) may be defective. Check for the status of soldering and replace it.	10.30 WAVEFORMS 2-7
2	Reset communication error between USB2 UCOM and DSP	MAIN Assy TEST POINT 2-8	Check if the DSP_xRST signal is "H".	• check for the communication line between USB1 UCOM (IC2003) and USB2 UCOM (IC2502).	————
3	HPI communication error between USB2 UCOM and DSP	MAIN Assy 2-9	————	• It is the abnormality of the communication line between USB1 UCOM (IC2003) and DSP (IC3001). Check for the status of soldering and replace it. Still when it is not repaired, replace MAIN Assy.	————

[3] AUDIO INPUT

[3-1] No signal is input to the LINE, PHONO connectors.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
0	Prior Confirmation	• USB A, PHONO/ LINE, USB B selector switch • Each CH TRIM • Channel level indicator	• Confirm on the screen that the selector is set properly. • Check if the Channel Level Indicator lights when an audio signal is input.	• If the Channel Level Indicator lights: ➡ There may be a failure on the OUTPUT side. Go to [4] AUDIO OUTPUT. • If the Channel Level Indicator does not light: Go to [1].	Operating instructions
1	Defective parts	MAIN Assy CH*_LINE_L/R, CH*_PHONO_L/R (*= 1 - 4) 3-1 RepresentativeCH1	[Check of the input before the ADC] Check the audio signal (sine wave) in the above-mentioned signal path.	• If no audio signal is input: ➡ The analog circuit at a previous stage must be improperly soldered or defective. Check for the soldering status, or replace it. • If an audio signal is input, go to [2].	————
2	Defective parts	MAIN Assy IC4005 (INPUT1_ADC) 3-2 RepresentativeCH1	[Check of the input after the ADC] Except when the audio signal is fixed at "L" or "H", check the audio signal between in the ADC and DSP above-mentioned signal path.	• If no audio signal is input: ➡ The CH*_ADC and periphery circuit at a previous stage must be improperly soldered or defective. Check for the soldering status, or replace it. Or replace the MAIN Assy.	————

[3-2] No signal is input to the MIC connector.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
0	Prior Confirmation	• MIC LEVEL TRIM • Master level indicator	• Confirm on the screen that the selector is set properly. • Check if the Master level indicator lights when an audio signal is input.	• If the Master Level Indicator lights: ➡ There may be a failure on the OUTPUT side. Go to [4] AUDIO OUTPUT. • If the Master Level Indicator does not light: Go to [1].	Operating instructions
1	Defective parts	MAIN Assy before TRIM 3-3	[Check of the corresponding input] Check the audio signal (sine wave) in the above-mentioned signal path.	• If no audio signal is input: ➡ The analog circuit at a previous stage must be improperly soldered or defective. Check for the soldering status, or replace it. • If an audio signal is input, go to [2].	————
2	Defective parts	• MAIN Assy after TRIM 3-4 • MIXER Assy CN8601 - pin 1, 2, 5, 6 3-7	[Check of the corresponding input] Check the audio signal (sine wave) in the above-mentioned signal path.	• If no audio signal is input: (1) There is a possibility that the TRIM parts of MIXER Assy are defective, or the wiring between MAIN and MIXER is defective. Check the connection of the wiring for the MIC signal (CN4801 ⇔ CN8601). If symptoms do not improve, go to (2). (2) The analog circuit at a previous stage must be improperly soldered or defective. Check for the soldering status, or replace it. • If an audio signal is input, go to [3].	————
3	Loose connection /defective parts	MAIN Assy MIC1_OUT 3-5	[Check of the corresponding input] Check the audio signal (sine wave) in the above-mentioned signal path.	• If no audio signal is input: ➡ The analog circuit at a previous stage must be improperly soldered or defective. Check for the soldering status, or replace it. • If an audio signal is input, go to [4].	————
4	Defective parts	MAIN Assy MIC_ADC 3-6 IC4803 - pin 9, 10, 11, 12	[Check of the input after the ADC] Except when the audio signal is fixed at "L" or "H", check the audio signal between in the ADC and DSP above-mentioned signal path.	• If no audio signal is input: ➡ The MIC_ADC (IC4803) and periphery circuit at a previous stage must be improperly soldered or defective. Check for the soldering status, or replace it. Or replace the MAIN Assy.	————

[4] AUDIO OUTPUT

[4-1] No signal is output from the MASTER1/MASTER2 connectors.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Output check	MASTER1 / MASTER2	Identify the connector(s) that does (do) not output signals.	• If neither MASTER 1 nor 2 connector outputs, go to [2]. • If only the MASTER 1 connector does not output, go to [5]. • If only the MASTER 2 connector does not output, go to [6].	————
2	Defective parts	MAIN Assy ADDA_xRESET IC5201 - pin 48 4-1	[Checking the RESET signal] Check for the ADDA_xRESET signal level is "H".	• If it is "L", go to [3]. • If it is "H" ➡ The ADDA_xRESET signal must be improperly soldered or defective. Check for the soldering status of part, or replace it.	————
3	Defective parts	MAIN Assy IC5201 - pin 32, 33, 36, 37 4-2	[Check of the audio output] Except when the audio signal is fixed at "L" or "H", check the audio signal in the above-mentioned signal path.	• If no audio signal is output: ➡ The DSP (IC3001) or AUDIO_CLK may be defective. Replace the MAIN Assy. • If an audio signal is output, go to [4].	————
4	Defective parts	MAIN Assy IC5601, IC5602 - pin 1, 7 4-3 4-4	[Check of the audio output] Check the audio signal (sine wave) in the above-mentioned signal path.	• If no audio signal is output: ➡ The IC5601, IC5602 or its peripheral circuit must be improperly soldered or defective. Check for the soldering status of part, or replace it.	————
5	Defective parts	MOUT Assy IC9451, IC9452 - pin 1, 7 4-5 4-6	[Check of the audio output] Check the audio signal (sine wave) in the above-mentioned signal path.	• If no audio signal is output: ➡ The IC9451, IC9452 or its peripheral circuit must be improperly soldered or defective. Check for the soldering status of part, or replace it. • If an audio signal is output: ➡ The Jack or its peripheral circuit must be improperly soldered or defective. Check for the soldering status of part, or replace it.	————

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
6	Defective parts	MOUT Assy IC9453 - pin 1, 7 4-7	[Check of the audio output] Check the audio signal (sine wave) in the above-mentioned signal path.	• If no audio signal is output: ➡ The IC9453 or its peripheral circuit must be improperly soldered or defective. Check for the soldering status of part, or replace it. • If an audio signal is output: ➡ The Jack or its peripheral circuit must be improperly soldered or defective. Check for the soldering status of part, or replace it.	————

[4-2] No signal is output from the PHONES connector.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective parts	MAIN Assy ADDA_xRESET IC5201 - pin 48 4-1	[Checking the RESET signal] Check for the ADDA_xRESET signal level is "H".	• If it is "H", go to [2]. • If it is "L" ➡ The ADDA_xRESET signal must be improperly soldered or defective. Check for the soldering status of part, or replace it.	————
2	Defective parts	MAIN Assy IC5201 - pin 18, 19, 22, 23 4-8	[Check of the audio output] Except when the audio signal is fixed at "L" or "H", check the audio signal in the above-mentioned signal path.	• If no audio signal is output: ➡ The DSP (IC3001) or AUDIO_CLK may be defective. Replace the MAIN Assy. • If the HP signal is output, go to [3].	————
3	Defective parts	MAIN Assy IC5606 - pin 1, 7 4-9	[Check of the audio output] Check the audio signal (sine wave) in the above-mentioned signal path.	• If no audio signal is output: ➡ The analog circuit at a previous stage must be improperly soldered or defective. Check for the soldering status of the IC5606 or its peripheral circuit, or replace it. • If an audio signal is output, go to [4].	————
4	Defective parts	MAIN Assy IC5608 - pin 1, 7 4-10	[Check of the audio output] Check the audio signal (sine wave) in the above-mentioned signal path.	• If no audio signal is output: ➡ The analog circuit at a previous stage must be improperly soldered or defective. Check for the soldering status of the IC5608 or its peripheral circuit, or replace it. • If an audio signal is output, go to [5].	————
5	Loose connection /defective parts	HPJK Assy CN9701 - pin 1, 4 4-11	[Check of the audio output] Check the audio signal (sine wave) in the above-mentioned signal path.	• If no audio signal is output: ➡ The analog circuit must be improperly soldered or defective. Check for the soldering status of its peripheral circuit, or replace it. • If an audio signal is output: ➡ The Jack or HPJK jumper wire must be improperly soldered or defective. Check for the soldering status of part, or replace it.	————

[4-3] No signal is output from the BOOTH connector.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective parts	MAIN Assy ADDA_xRESET IC5201 - pin 48 4-1	[Checking the RESET signal] Check for the ADDA_xRESET signal level is "H".	• If it is "H", go to [2]. • If it is "L" ➡ The ADDA_xRESET signal must be improperly soldered or defective. Check for the soldering status of part, or replace it.	————
2	Defective parts	MAIN Assy IC5201 - pin 38, 39, 42, 43 4-12	[Check of the audio output] Except when the audio signal is fixed at "L" or "H", check the audio signal in the above-mentioned signal path.	• If no audio signal is output: ➡ The DSP (IC3001) or AUDIO_CLK may be defective. Replace the MAIN Assy. • If the BOOTH signal is output, go to [3].	————
3	Defective parts	MAIN Assy IC5603, IC5607 - pin 1, 7 4-13 4-14	[Check of the audio output] Check the audio signal (sine wave) in the above-mentioned signal path.	• If no audio signal is output: ➡ The IC5603, IC5607 or its peripheral circuit must be improperly soldered or defective. Check for the soldering status of part, or replace it. • If an audio signal is output, go to [4].	————
4	Defective parts	MOUT Assy IC9601, IC9602 - pin 1, 7 4-15 4-16	[Check of the audio output] Check the audio signal (sine wave) in the above-mentioned signal path.	• If no audio signal is output: ➡ The IC9601, IC9602 or its peripheral circuit must be improperly soldered or defective. Check for the soldering status of part, or replace it. • If an audio signal is output: ➡ The Jack or its peripheral circuit must be improperly soldered or defective. Check for the soldering status of part, or replace it.	————

[5] USB

[5-1] USB is not recognized

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Prior Confirmation	• USB A, PHONO/ LINE, USB B selector switch • Channel level indicator	• Check that the selector is set to USB*/*. • Check that the driver software dedicated has been installed on the PC. • Check that the DDJ-1000 utility of the connected PC is set properly.	Set to correct setting.	Operating instructions
2	Loose connection	MAIN Assy USB1: IC2003 - pin 93, 94, 95 USB2: IC2502 - pin 93, 94, 95 5-1 5-2 5-3 5-4	[Power] Check that the voltage is about 5 V (4.75 to 5.25) using a PC connected. [D±USB] Check for the waveforms using a PC connected.	• [Power] If there is any abnormality: ➡ The MAIN Assy may be defective. Replace the MAIN Assy. • [D±USB] If there is any abnormality ➡ The MAIN Assy may be defective. Replace the MAIN Assy.	————

[6] Indicator (OLED) not light on

PNL2 UCOM (IC1501) controls the OLED.

[6-1] OLED not light on

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Signal error	OLED Assy CN8501 - pin 3 OLED_RST 6-1	Check the output signal and wire connection of the OLED communication line in the OLED Assy. OLED_RST	• If no signal is output, check the mounting status of the PNL2 UCOM (IC1501). If it is properly mounted, the port may be damaged. If the signal is normal, go to [2].	————
2	Signal error	OLED Assy CN8501 - pin 1 OLED_ADDR pin 2 OLED_XCS pin 7 OLED_CLK pin 9 OLED_MOSI 6-2	Except when the audio signal is fixed at "L" or "H", check the OLED communication line output signal on the OLED Assy in the above-mentioned signal path. OLED_ADDR OLED_XCS OLED_CLK OLED_MOSI	• If no signal is output, check the mounting status of the PNL2 UCOM (IC1501). If it is properly mounted, the port may be damaged. Replace it. If wire connection is improper, resolder it. • If the signals is normal, the OLED does not light, the part may be defective. Replace it.	————

[7] Crossfader

[7-1] Abnormal function of the crossfader

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	You forgot calibration execution	MIXER Assy Headphones CUE1 - 4 LED	If Headphones CUE1-4 LED is flashing, Crossfader calibration is not done due to forgot doing calibration at replacing MAIN Assy.	• Perform calibration in the Service mode.	6.3 CROSSFADER CALIBRATION MODE
2	Calibration execution is not possible	————	Perform calibration in the Service mode to check if the crossfader functions properly.	• If calibration is not possible or fails, go to [7-2].	6.3 CROSSFADER CALIBRATION MODE

[7-2] The crossfader is inoperable.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connection / signal error	CRFB Assy [Power] V+5_CRFD CN8551 - pin 1 [GND] GND_CRFD CN8551 - pin 3 [CROSS_FADER signal] CRFD CN8551 - pin 2	[Power] Check the power is 5.0 V. [GND] Check that GND_CRFD is connected with GNDAD in the MAIN Assy. [CROSS_FADER signal] Check the CROSS_FADER signal at each diagnostic point while operating the crossfader. Check whether a magnet sticks to Slider (DNK6661).	• [Power] If it is normal: ➡ There may be a break in a cable or CRFD Assy may be defective. • [GND] If it is normal: ➡ There may be a break in a cable or CRFD Assy may be defective. • [CROSS_FADER signal] If no signal is output: ➡ There may be a break in a cable or CRFD Assy may be defective. • If the symptom persists after the above corrections, soldering of the resistor or PNL1 UCOM (IC1001) may be defective. Check for the soldering status of the part, or replace it.	6.3 CROSSFADER CALIBRATION MODE

[8] JOG dial Section

[8-1] Nothing is displayed on the LCD. (Black screen)

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Power for backlight is not input properly.	LCDL/LCDR Assy [Back light power] Diagnosis point "V+15LED" 8-1 [V+15LED control circuit] LCDL: Q7007-B, LCDR: Q7507-B 8-2	Check the voltage of the backlight power (LCDL/LCDR) and the mounting status of the peripheral parts.	(1) Defective the wiring between LCDL/LCDR - MAIN Re-confirm the wiring connection. If there is no display, go to (2). (2) The backlight power circuit is defective. Check the control circuit of V+15LED and replace defective parts.	————
2	Loose connection between LCD UCOM and LCD module (DCLK, xRST)	LCDL/LCDR Assy [DCLK line] IC7001 (LCDL), IC7501 (LCDR) Diagnosis point "LCD_DCLK" 8-3	Check for the diagnosis point "LCD_DCLK (22 MHz)".	(1) Defective the wiring of the FPC connection of LCD module Re-confirm the wiring connection of the FPC connector of LCD module. If there is no display, go to (2). (2) Defective parts between LCD module and LCD UCOM (IC7001, IC7501) If LCD_DCLK does not work although V+3R3D and V+1R2D are working, check the components on DCLK signal line of LCD UCOM (IC7001: LCDL, IC7501: LCDR) and replace defective parts.	10.30 WAVEFORMS 8-3
3	Loose connection between LCD UCOM and LCD module (othes)	LCDL/LCDR Assy [LCD_xRST] 8-4 Diagnosis point "LCD_xRST" [LCD_VSYNC] 8-5 R7011(LCDL) R7511(LCDR) [LCD HSYNC] 8-6 R7010(LCDL) R7510(LCDR)	Check for the each signals. • LCD_xRST (3.3 V) • LCD_VSYNC (65 Hz) • LCD_HSYNC (15.7 kHz)	(1) Defective the wiring of the FPC connection of LCD module Re-confirm the wiring connection of the FPC connector of LCD module. If there is no display, go to (2). (2) Defective parts between LCD module and LCD UCOM (IC7001, IC7501) Check the signal on the left column and replace the defective parts.	————
4	SPI communication error of LCD UCOM	MAIN Assy [SPI communication line] Representative: Land for below the pins of LCDL-CN1 on left Deck SCK1 (pin 12) 8-7 SCK2 (pin 18) 8-8 TxD1 (pin 16) 8-9 TxD2 (pin 20) 8-10 RxD1 (pin 14) 8-11 RxD2 (pin 10) 8-12 RDY1 (pin 22) 8-13 RDY2 (pin 23) 8-14	Check SPI signal of USB1, USB2 UCOM (IC2003, IC2502) on MAIN Assy. (Because the Land on MAIN Assy side has easier to check) SCK*, TxD*, RxD*, RDY* (* = 1 or 2)	(1) Defective the wiring between LCDL/LCDR and MAIN Assy Re-connect the FFC. If there is no display, go to (2). (2) Defective parts on SPI signal line Replace the defective parts on SPI signal line.	————

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
5	RST signal error of LCD UCOM	LCDL/LCDR Assy [xRST_SH_LCD] Diagnosis point "xRST_SH_LCD" 8-15	Check for the diagnosis point "xRST_SH_LCD".	(1) Defective the wiring between LCDL/LCDR and MAIN Assy If the check result of "xRST_SH_LCD" is "L" although V+3R3D and V+1R2D are working, re-connect FFC between LCDL/LCDR and MAIN Assy. If there is no display, go to (2). (2) Defective parts on RST signal line Check the component on RST signal line of LCDL/LCDR and MAIN Assy, and replace defective parts.	————

[8-2] The colors displayed on the LCD are improper.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connection between LCD UCOM and LCD module	LCDL/LCDR Assy CN7002 (LCDL), CN7502 (LCDR) - pin 12, 13, 14, 15, 16, 17 8-24	Check the wiring of signals from LCD_D2 to LCD_D7 between LCD UCOM (IC7001, IC7501) and LCD module.	Check the signal on the left column and replace the defective parts.	————

[8-3] Turning of the JOG dial is not detected

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective photo interrupter or USB UCOM	Representative: Left Deck JOGL/JOGR Assy [JOG1] CN9726 - pin 1 8-16 [JOG2] CN9726 - pin 2 8-17 LCDL/LCDR Assy [JOG1] CN7004 - pin 1 8-18 [JOG2] CN7004 - pin 2 8-19 MAIN Assy [JOG1] CN1 - pin 2 8-20 [JOG2] CN1 - pin 3 8-21	Check the waveforms of the communication line of JOG1/JOG2.	If no waveform can be confirmed, the photo interrupter (JOGL: PC9726, JOGR: PC9751) may be defective. Replace it. If a waveform can be confirmed, the signal line may be loosely connected or the USB UCOM (IC2003, IC2502) may be defective. Reconnect the signal line. If the symptom persists, replace it.	————
2	Defective encoder plate	JOG dial Section	• Check if the Plate (DEC3700) has come off from Gear/A (DNK6143). • Check if the Plate is dirty.	If it has come off, adhere it at its original position. If it is dirty, replace it with a new one.	————

[8-4] Pressing on the JOG dial cannot be detected.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective sheet SW or USB UCOM	Representative: Left Deck LCDL/LCDR Assy CN7005 - pin 1 8-22 MAIN Assy CN1 - pin 4 8-23	Check the waveform of the signal on the signal line (JOG_SW) when the JOG dial is pressed.	If the signal on the signal line (JOG_SW) is not set to "L" when the JOG dial is pressed, the Sheet SW (DSX1078) may be defective. Replace it. If the signal line (JOG_SW) is set to "L", the signal line may be loosely connected or the USB UCOM (IC2003, IC2502) may be defective. Reconnect the signal line. If the symptom persists, replace it.	————
2	Defective SW Ring and JOG Holder	JOG dial Section	• Check if there is any foreign object between the SW Ring (DNK5233) and Holder (DNK6745). • Check if the SW Cushion HH48/2 (DEC2538) that are adhered to the SW Ring and Holder have worn out.	(1) Remove any foreign object, if present. (2) Replace the SW Cushion HH48/2 with a new one.	————

[8-5] Noise is heard when the JOG dial is turned.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective gears	JOG dial Section	There may be any scratches on the 3 gears or some foreign object between the gears.	If there are any scratches, replace the scratched gear with a new one. If there is any foreign object, remove it then replace the gears with new ones. After that, check that the JOG adjustment value is within the reference range, enter the Service mode, referring to "JOG dial rotation load adjustment Mode".	8.3 ADJUSTMENT METHOD FOR ROTATION LOAD OF THE JOG DIALS

[8-6] The JOG dial turns too freely. (The load value for the JOG dial is outside the specified range.)

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Improper adjustment or assembly of the JOG dial	JOG dial Section	Check that the JOG adjustment value is within the reference range, enter the Service mode, referring to "JOG dial rotation load adjustment Mode".	If it is outside the specified range, adjust the position of the Adjust plate (DNK5300) to change the load value for the JOG dial, referring to "8.3 ADJUSTMENT METHOD FOR ROTATION LOAD OF THE JOG DIALS". During the above adjustment, if the upper-limit adjustment position of the Adjust plate is reached, oil mayhave been spattered on the Adjust plate. Replace the washer, gear, and smoother with new ones, then reassemble. After that, check that the JOG adjustment value is within the reference range, enter the Service mode, referring to "JOG dial rotation load adjustment Mode".	8.3 ADJUSTMENT METHOD FOR ROTATION LOAD OF THE JOG DIALS

[8-7] Resistance to turning the JOG dial is too strong. (The load value for the JOG dial is outside the specified range.)

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Improper adjustment of the JOG dial or defective washer, gear, or cam plate	JOG dial Section	Check that the JOG adjustment value is within the reference range, enter the Service mode, referring to "JOG dial rotation load adjustment Mode".	If it is outside the specified range, adjust the position of the Adjust plate (DNK5300) to change the load value for the JOG dial, referring to "8.3 ADJUSTMENT METHOD FOR ROTATION LOAD OF THE JOG DIALS". During the above adjustment, if the lower-limit adjustment position of the Adjust plate is reached, shavings from the worn-out washer may have increased the friction. Replace the washer, gear, and smoother with new ones, then reassemble. After that, check that the JOG adjustment value is within the reference range, enter the Service mode, referring to "JOG dial rotation load adjustment Mode".	8.3 ADJUSTMENT METHOD FOR ROTATION LOAD OF THE JOG DIALS

[9] Deck Section operations (Button/Volume/Rotary encoder/Tempo slider/PAD)

As operations of all buttons, variable volumes, rotary encoder, Tempo slider and PAD can be checked in Service mode.
It is recommended to check operations of those controls in "6.1 SERVICE MODE" before proceeding to the subsequent checks.

[9-1] No button functions.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Signal error of Key scan circuit	LOOP Assy BRWS Assy PADB Assy PLAY Assy MAIN Assy Each applicable button	Check for the each buttons operation in "6.1 SERVICE MODE".	About the button which does not function, check the component and wiring between Tact SW and PNL2 UCOM (IC1501), and replace the defective parts.	6.1 SERVICE MODE 4.4 MATRIX INFORMATION

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
2	Power failure	MAIN Assy (Right Deck) IC1501 - pin 99 etc. (Left Deck) IC1501 - pin 99 etc. Diagnosis point "V+3R3E" 9-1	Check the power line (IC1501 - pin 99 etc.: V+3R3D) of PNL2 UCOM (IC1501). Left Deck uses V+3R3E as the power line. So, check V+3R3E too.	(1) When V+3R3D is input to VCC (pin 99 etc.) of PNL2 UCOM (IC1501) Solder the power pin of PNL2 UCOM may be floating. Check solder condition and repair defective part. (2) When V+3R3D is not input to VCC of PNL2 UCOM (IC1501) There is a possibility that the voltage monitoring circuit is working. Check that there are no short circuits in the circuits and parts around V+3R3D. (3) About Left Deck, check that there are no short-circuits in the circuits and parts around V+3R3E in addition to (1) and (2).	————
3	RST signal error of PNL2 UCOM	MAIN Assy [RST_PNL2] Diagnosis point "RST_PNL2" 9-2	Check for the RST line (Diagnosis point "RST_PNL2") of PNL2 UCOM (IC1501).	If it is "L" although the V+3R3D is normal, the Q1501 or its periphery circuit is defective. Replace the part.	————
4	CLK signal error of PNL2 UCOM	MAIN Assy IC1501 - pin 15 9-3	Check for the CLK signal (IC1501 - pin 15: 16 MHz) of the PNL2 UCOM (IC1501).	The X1501 may be loosely connected with its peripheral devices or a part may be defective. Correct loose connection. If the symptom persists, replace the defective part.	————
5	Defective PNL2 UCOM	MAIN Assy	If the symptom persists after the above corrections.	Check the connection of the PNL2 UCOM (IC1501). If the connection is OK, the port may be damaged. Replace it.	————

[9-2] No Tempo slider functions.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective TEMPO slider	PADB Assy [ADCT] CN9251 - pin 10 9-4 [ADIN] CN9251 - pin 11 9-5	Check the waveform of signals on the signal line (ADCT, ADIN).	If the voltage on the signal line (ADIN) fluctuates within the range of 0–3.3 V, with 1.65 V at the center, go to [2]. If it does not, the Tempo slider (VR9251) is defective. Replace it.	————
2	Loose connections or defective PNL2 UCOM	PADB Assy MAIN Assy	If the symptom persists after the above corrections.	(1) Defective the wiring between PADB and MAIN Assy Re-confirm the wiring connection. If operation still does not work, go to (2). (2) PNL2 UCOM (IC1501) is defective. Check the connection of the PNL2 UCOM. If the connection is OK, the port may be damaged. Replace it.	————

[9-3] The Rotary encoder does not work.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connections signal line or defective SW	Representative: Left Deck BRWS Assy CN8951 - pin 6 (BRWS_SEL), pin 8 (A), pin 7 (B) 9-6 9-7 9-8 LOOP Assy CN8902 - pin 6 (BRWS_SEL), pin 8 (A), pin 7(B) 9-9 9-10 9-11 MAIN Assy CN2 - pin 6 (BRWS_SEL), pin 8 (A), pin 7 (B) 9-12 9-13 9-14	BRWS_SEL, A, B Check the connection of the signal line (BRWS_SEL, A, B) on each BRWS Assy (CN8951-6, 8, 7 pin). Check that "BRWS_SEL" becomes "L" when SW is pressed, and that the waveforms of "ENC1" and "ENC2" change when SW is rotated.	The BRWS and MAIN may be loosely connected or they may be defective. Reconnect them securely. If the symptom persists, replace them.	————
2	Defective PNL2 UCOM	MAIN Assy	If the symptom persists after the above corrections.	The PNL2 UCOM (IC1501) may be loosely connected or it may be defective. Reconnect its securely. If the symptom persists, replace it.	————

[9-4] The PAD does not work.

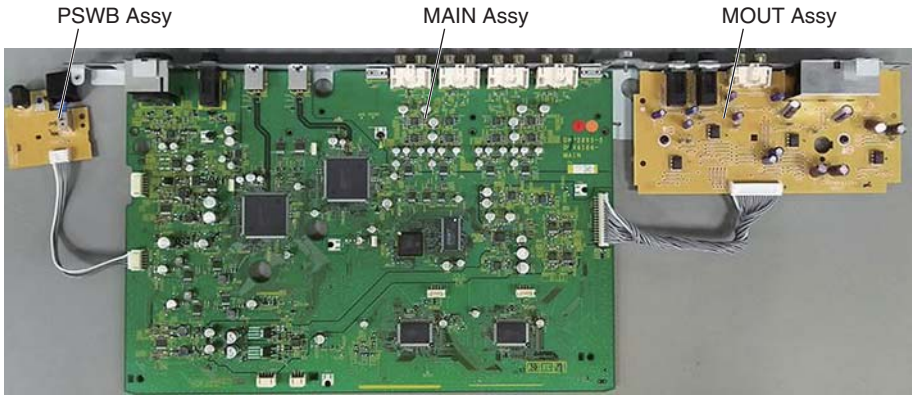
No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connections signal line or defective peripheral parts	Representative: Left Deck PAD1 PADB Assy CN9251 - pin 6 MAIN Assy CN4 - pin 17	Check the wiring and the mounting status of the parts between PADB (FSR) and MAIN (PNL2 UCOM).	(1) In case of defective wiring Check the wiring and repair defective wiring. (2) In case of defective parts Check the parts and replace defective parts.	————
2	Contact error of PAD	PADB Assy	Check for foreign matter between Sheet (DEC3774), Spacer (DEC3775) and PADB.	(1) When there is a foreign object Remove foreign objects. (2) When there is a problem with how to attach Sheet or Spacer Re-attach parts.	————
3	Defective PNL2 UCOM	MAIN Assy	If the symptom persists after the above corrections.	The AD port of PNL2 UCOM (IC1501) may be damaged. Replace it.	————

[9-5] LED of the button and of PAD is not light on.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Power supply has not reached LED (V+5LED)	MAIN Assy [V+5LED, V+5D] IC507 - pin 5 9-17 (V+5LED), pin 1 (V+5D) 9-18	Check for the V+5LED and V+5D.	(1) When there is an output of V+5D without the output of V+5LED The parts on the circuit of V+5LED are short-circuited or IC507 is defective. Repair the defective part. (2) When there is not the output of V+5D DCDC Converter IC (MAIN Assy: IC504), or peripheral circuit components are defective. Replace defective parts.	————
2	Power supply has not reached LED (V+9LED)	MAIN Assy [V+9LED_L, V+9LED_R] P502 (V+9LED_L), P503 (V+9LED_R) 9-19 9-20	Check whether ICP (MAIN Assy: P502, P503) of V+9LED is energized	(1) When P502 or P503, or both are broken If P502 is broken, V+9LED on Left Deck is short-circuited. If P503 is broken, V+9LED on Right Deck is short-circuited. Repair the defective part. (2) When there is not the output of V+9D DCDC Converter IC (MAIN Assy: IC505), or peripheral circuit components are defective. Replace defective parts.	————
3	Defective of the lighting control circuit (Direct control part)	Representative: Left Deck SLIP LED MAIN Assy CN2 - pin 13 9-21 LOOP Assy CN8902 - pin 13 9-22 BRWS Assy CN8951 - pin 13 9-27 (When PLAY Assy is related, it is similar)	Check whether the signal has reached the lighting control circuit of LED	(1) Defective wiring between each Assy Re-confirm the wiring between each Assy. If no problem, go to (2). (2) Parts of the corresponding circuit block is defective Confirm the wiring of the lighting control transistor and resistor of LED. And, replace defective parts.	————
4	Defective of the lighting control circuit (Grid scan control part)	Representative: Left Deck PAD MODE1-R [PADGRID_0, PADSEG_0] MAIN Assy CN3 - pin 30, 17 9-23 9-24 PADB Assy CN9001 - pin 1, 14 9-25 9-26	Check whether the signal has reached Grid, or Segment, or both.	(1) When only a single LED does not light on Check the Current Adjustment Resistors (eg R9047, R9053 (PADB)), Diodes (eg D9026) etc. And, replace defective parts. (2) When only the LEDs connected to the same grid, the same segment, or both do not light up. Check the parts on the path of the grid and segment. And, replace defective parts.	4.4 MATRIX INFORMATION
5	Defective LED or PNL2 UCOM	LOOP Assy BRWS Assy PLAY Assy MAIN Assy	If the symptom persists after the above corrections.	(1) Defective LED Replace defective LED. (2) Port of PNL2 UCOM (IC1501) was broke. Replace PNL2 UCOM.	————

5.3 MAIN ASSY DIAGNOSIS METHOD

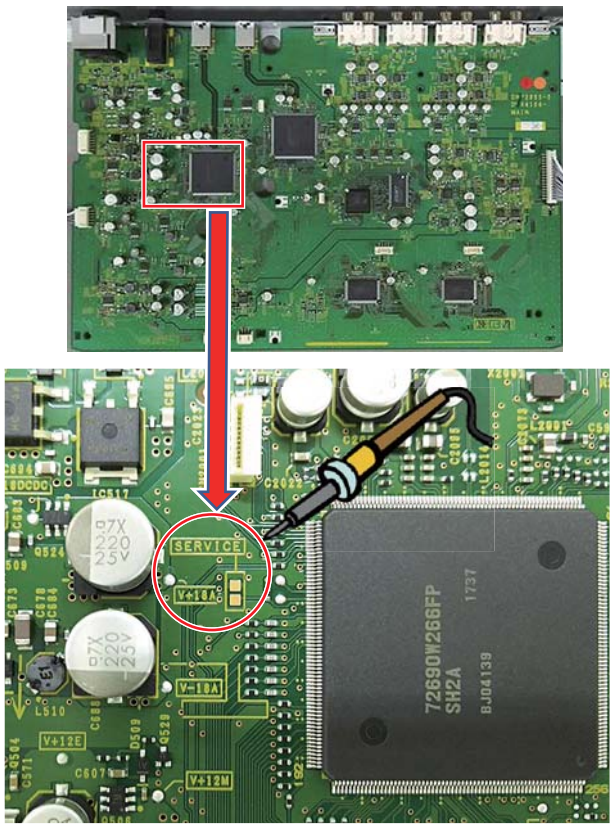
Since the rear panel of this machine is removed, only the B side of MAIN Assy is visible, so it is difficult to diagnose in that condition. When diagnosing MAIN Assy, remove FFC and cable as shown below, and remove MOUT Assy, PSWB Assy and stay together.



In this state, in order to switch to "Service Diagnostic Mode" (all AUDIO signals can be observed for waveform), it is necessary to short the "SERVICE" test terminal in the figure below with solder. After the diagnosis is finished, remove the solder of the test terminal.
If diagnosis of MIC input is necessary, refer to "Diagnosis of MIC input". Soldering is also required when making this diagnosis.

<Service diagnostic mode>

Turn off the power switch.
Short the [SERVICE] test terminals with solder.
Connect attached AC adapter to PSWB Assy.
Turn on the power switch.

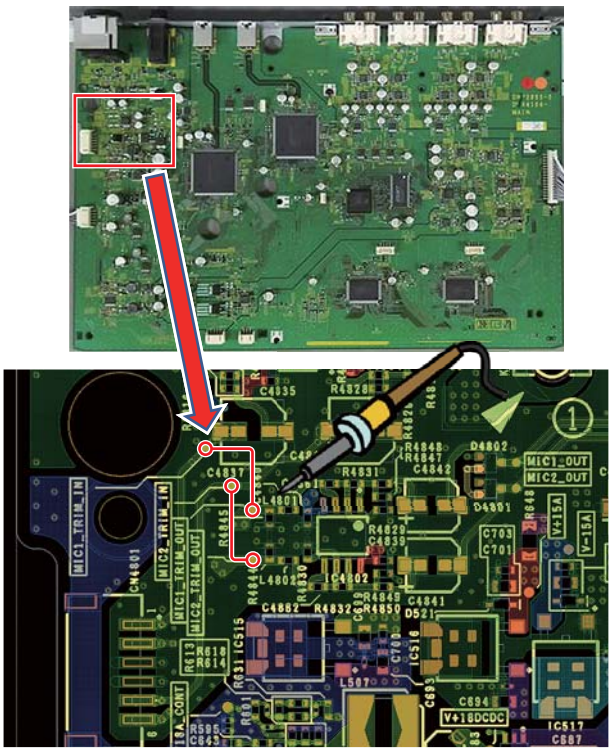


<Diagnosis of MIC input>

The MIC signal returns via TRIM circuit on MIXER Assy.
When diagnosing the MIC circuit, solder the single wire to the following terminals. When you do not diagnose the MIC circuit, the procedure is unnecessary as follows.

Diagnosis of MIC1 circuit:
Short the "MIC1_TRIM_IN" terminal and "MIC1_TRIM_OUT" terminal with single wire.

Diagnosis of MIC2 circuit:
Short the "MIC2_TRIM_IN" terminal and "MIC2_TRIM_OUT" terminal with single wire.



The setting of the volume/switch etc. is the setting shown in the following tables in "Service Diagnostic Mode"

<Setting of the volume>

TRIM	CENTER
MIC LEVEL	MAX
All EQ	CENTER
CFX	CENTER
MASTER LEVEL	CENTER
BOOTH MONITOR	CENTER
SAMPLER VOL	CENTER
HP MIXING	CENTER
HP LEVEL	CENTER
CH FADER	MAX
CROSS FADER	CENTER
TEMPO	CENTER

<Setting of the SW>

MIC	ON
INPUT SELECTOR	LINE
C.F ASSIGN	THRU

<Setting of the Switch>

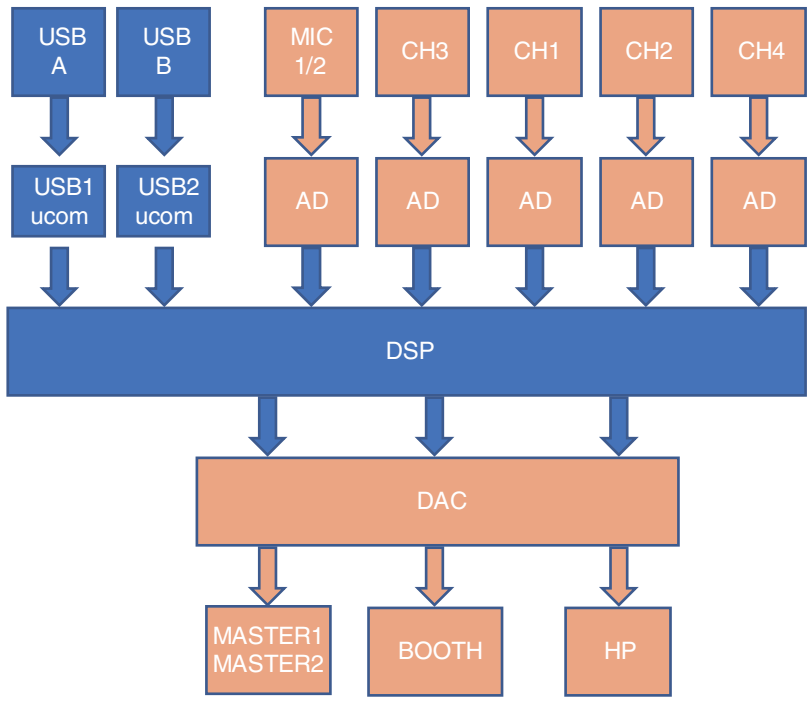
MASTER CUE	ON

<Diagnosis condition>

IN/OUT	Measurement CH	Input CH	Input level	Input frequency (Hz)	Output terminal
IN	LINE	CH1/2/3/4	0 dBV	1 K	–
IN	PHONO	CH3/4	–40 dBV	1 K	–
IN	MIC	MIC1/2	–50 dBV	1 K	–
IN	USB	USB A/B	0 dBFS	1 K	–
OUT	MASTER1/2	CH1/LINE	0 dBV	1 K	10 KΩ
OUT	BOOTH	CH1/LINE	0 dBV	1 K	10 KΩ
OUT	HP/Hp mini	CH1/LINE	0 dBV	1 K	32 Ω

<Diagnostic block diagram of AUDIO signal>

① Fault diagnosis of analog circuit ➡ A test signal is input to each input terminal
② Fault diagnosis of USB AUDIO ➡ Connect the PC and input the test signal from the rekordbox etc.



5.4 VOLTAGE MONITORING CIRCUIT

■ About the power supply voltage abnormality detection

PNL1 UCOM (IC1001) always monitors the power supply and voltages in this unit, and OFF does start instantly when a system detects abnormality.
The LED of QUANTIZE (WAKE improving) button on the left Deck blinks then.

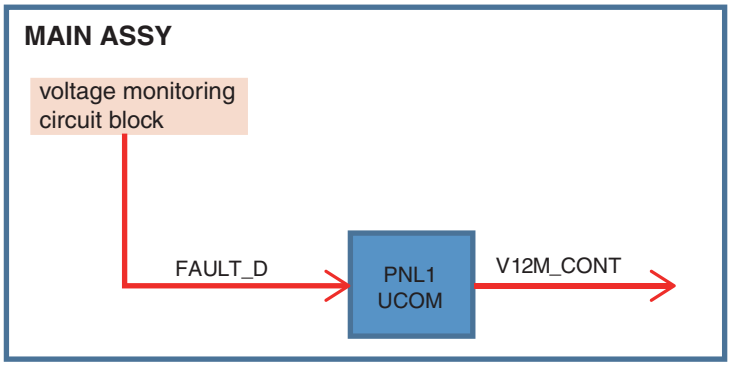
■ The power supply which is targeted for monitoring

A power supply name shows the voltage. (Ex : V+3R3A ➡ 3.3 V)

FAULT DET	High Value	Low Value
V+3R3A	4.08 V	1.84 V
V+3R3D	4.24 V	2.35 V
V+1R25D	1.76 V	0.83 V
V+5D	6.65 V	–
V+5A	6.5 V	3.71 V
V+9D	10.98 V	6.65 V
V+15OLED	–	–
V+15A	–	12.13 V
V-15A	-10.5 V	–
V-7R5	-3.25 V	–

■ Detection system outline

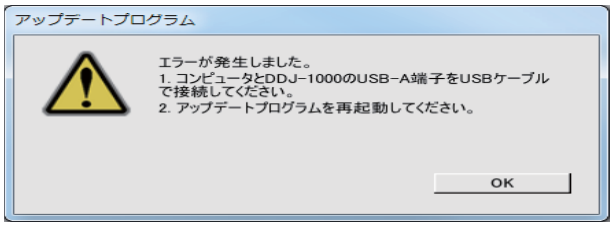
- The signal which informs abnormality from a voltage monitoring circuit block (FAULT_DET)
- A signal to send because PANEL UCON lets the output of the power supply have OFF when it detects abnormality (V12M_CONT)



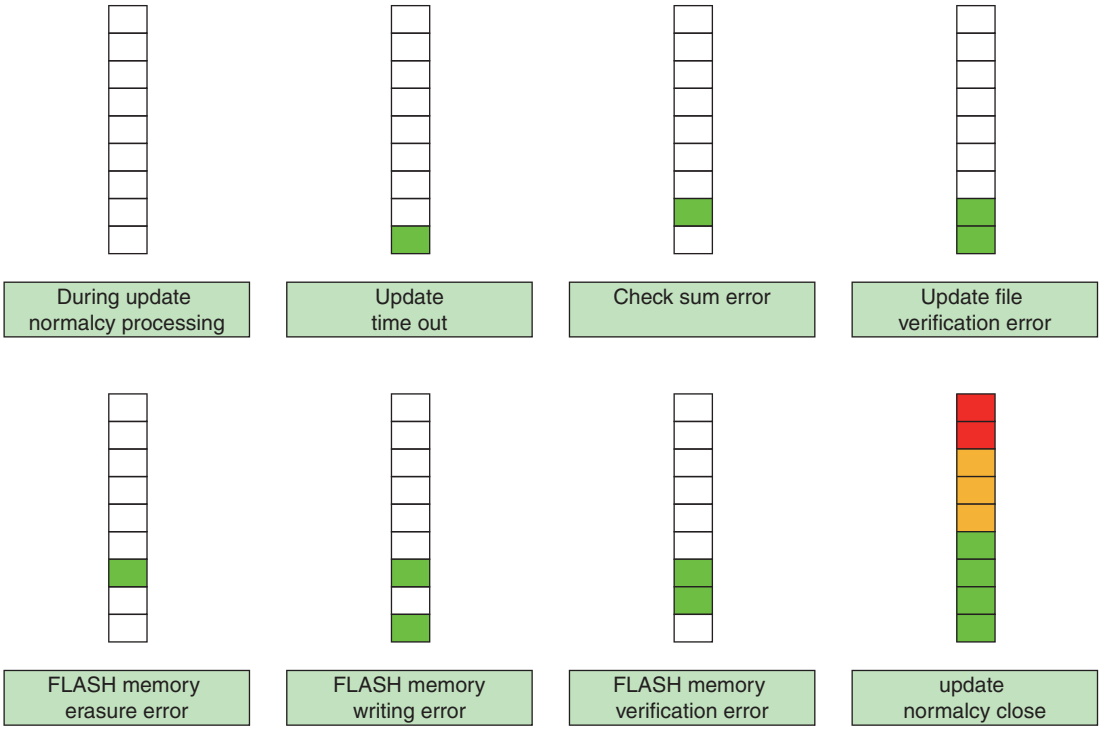
5.5 ERROR DISPLAY

■ Update error information

When an error occurs at the update execution of the product, the figure below is displayed to a PC.



During update, it display the detailed information of the error by lighting of the MASTER level indicator (L) LED of the product.

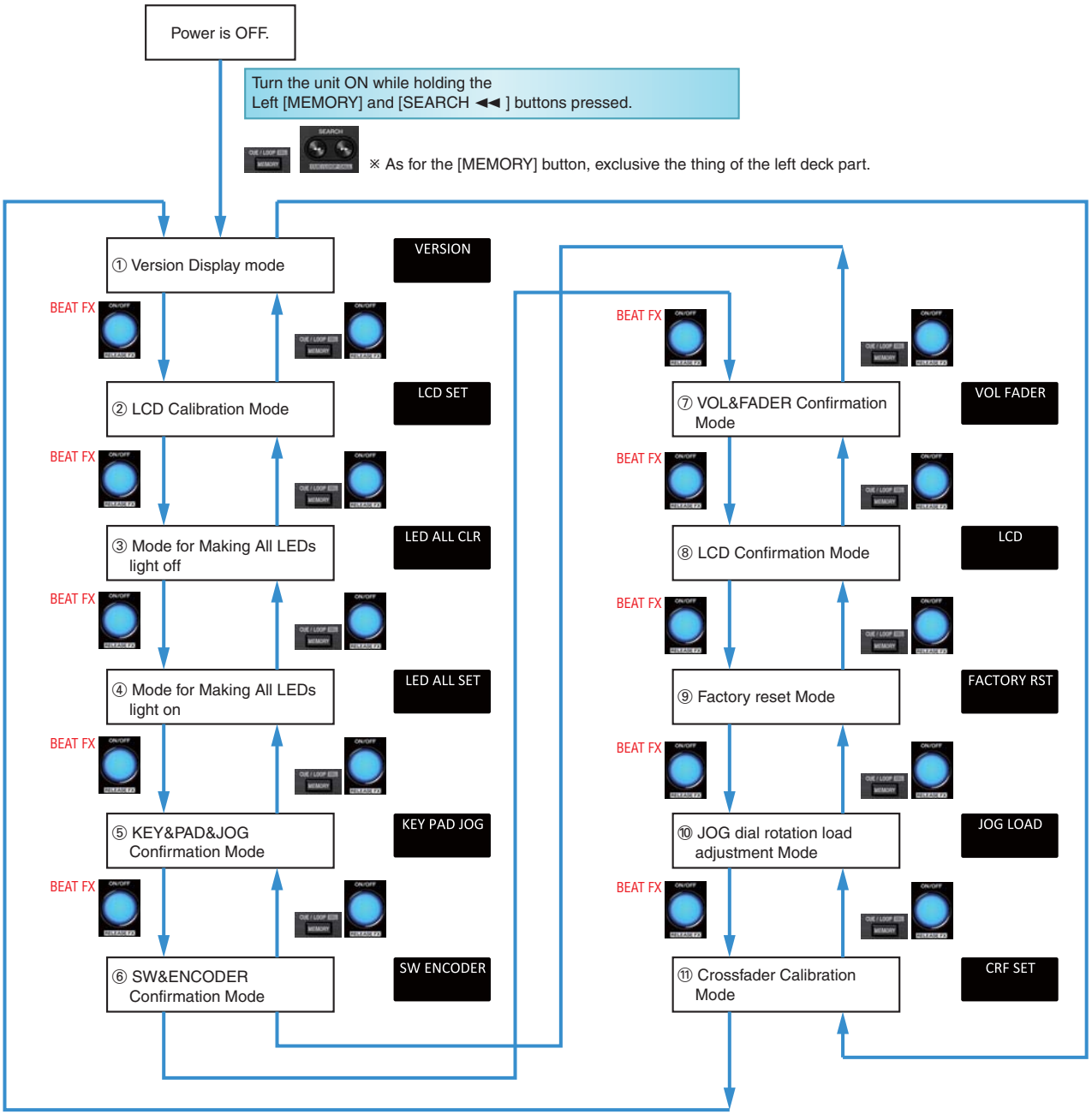


6. SERVICE MODE
6.1 SERVICE MODE

Outline of Test Mode

The following modes are provided in Test mode of this unit:
① Version Display mode
② LCD Calibration Mode
③ Mode for Making All LEDs light off
④ Mode for Making All LEDs light on
⑤ KEY&PAD&JOG Confirmation Mode
⑥ SW&ENCODER Confirmation Mode
⑦ VOL&FADER Confirmation Mode
⑧ LCD Confirmation Mode
⑨ Factory reset Mode
⑩ JOG dial rotation load adjustment Mode
⑪ Crossfader Calibration Mode

■ How to enter Service Mode and transition of the Service Mode



Service mode Contents

① Version Display mode

[Functional overview]
This mode is for confirming the firmware version of each microcomputer.

[Mode Title Display]
VERSION

[Element]
Check each volume

[BEAT ►][BEAT ◄]	: Switch Version display
[BEAT FX ON/OFF] (Light on)	: Mode change (to next mode)
[MEMORY] + [BEAT FX ON/OFF] (Light on)	: Mode change (to previous mode)

[Initial state]
SYSTEM is displayed.

[Verification procedure]
The type of firmware is displayed on the lower left of the Effect section display. The version of the firmware is displayed on the right side of this display. Pressing [BEAT ►] or [BEAT ◄] switches the display of the firmware type.

[Switch Version display]
Switch the display with [BEAT ►] and [BEAT ◄].

[Display order]

SYSTEM	*.**
USB1	*.***
USB2	*.***
BOOT	*.***
UPDATE	*.***
DSP_P	*.***
DSP_D	*.***
PANEL1	*.***
PANEL2	*.***
LCD1	*.***
LCD2	*.***

Warning display about not carrying out Crossfader/LCD calibration
When all the blue LEDs on the Right Deck are flashing immediately after entering Service mode, it means that the Crossfader calibration has not been carried out. Refer to "6.3 CROSSFADER CALIBRATION MODE" and perform calibration.

When all the blue LEDs on the Left Deck are flashing immediately after entering Service mode, it means that the LCD calibration has not been carried out. Refer to "6.2 LCD CALIBRATION MODE" and perform calibration.

Flashes when Crossfader calibration is not performed

Flashes when LCD calibration is not performed
Not performed on Left Deck: PAD1/2/3/4 flashes
Not performed on Right Deck: PAD5/6/7/8 flashes

② LCD Calibration Mode

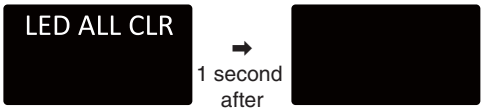
Refer to "6.2 LCD CALIBRATION MODE".

③ Mode for Making All LEDs light off

[Functional overview]
All LEDs and the display light off.

[Mode Title Display]
LED ALL CLEAR
※ When start this mode, it will be displayed for about 1 second.

- Effect section display



- Jog dial display section
  All lights light off status

[Element]
[BEAT FX ON/OFF] (Light on) : Mode change (to next mode)
[MEMORY] + [BEAT FX ON/OFF] (Light on) : Mode change (to previous mode)

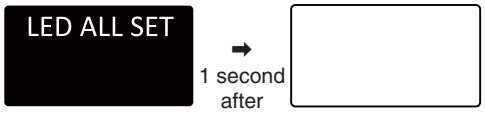
[Notices]
The brightness of Effect section display sets MIN.
The brightness of Jog dial display section sets MIN.

④ Mode for Making All LEDs light on

[Functional overview]
LED and the display light on.

[Mode Title Display]
LED ALL SET
※ When start this mode, it will be displayed for about 1 second.

- Effect section display



- Jog dial display section
  All lights light on status

[Element]

[BEAT FX ON/OFF] (Light on)	: Mode change (to next mode)
[MEMORY] + [BEAT FX ON/OFF] (Light on)	: Mode change (to previous mode)

[Initial state]
All LEDs and the display light on. The color of PAD and PAD MODE are white.
The GUI color of Jog dial display section is white.

[Notices]
The brightness of Effect section display sets MAX.
The brightness of Jog dial display section sets MAX.

The place that all LEDs light on:

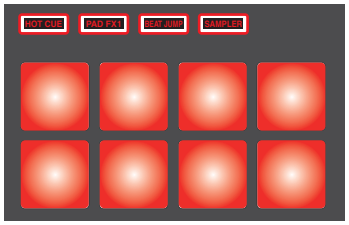
※1. The following description is about Left Deck, but the same is true for Right Deck.
※2. Even if the Rotary selector is turned counterclockwise, the status does not transition.
※3. When Rotary selector is pushed, it always returns to the status where it lights on in red.

LED ALL SET

All lights light on status

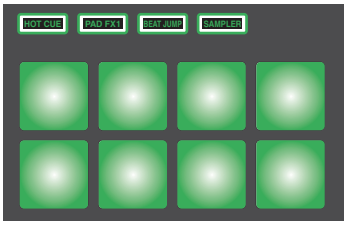
Left Deck Rotary selector PUSH

All PAD and PAD MODE on Left Deck light on in red



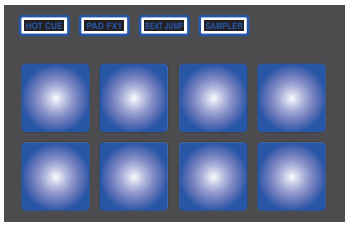
Turn Left Deck Rotary selector clockwise one click

All PAD and PAD MODE on Left Deck light on in green



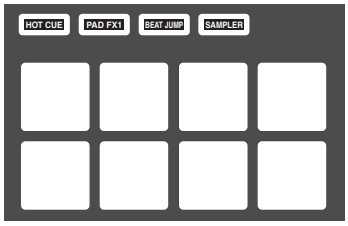
Turn Left Deck Rotary selector clockwise one click

All PAD and PAD MODE on Left Deck light on in blue



Turn Left Deck Rotary selector clockwise one click

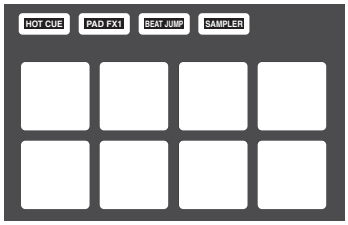
All PAD and PAD MODE on Left Deck light on in white



Turn Left Deck Rotary selector clockwise one click

All PAD and PAD MODE on Left Deck flashes in white

Light on



0.5 sec

0.5 sec

Light off

※ When it transitions to this state, it does not transition even if Rotary selector is pushed or turned.

⑤ KEY&PAD&JOG Confirmation Mode

[Functional overview]

- Confirm whether KEY, PAD, and JOG button are operating by lighting LED. Or confirm on Effect section display (lower row).
- Confirm whether JOG is operating by turning JOG. Or confirm on Effect section display (lower row).

※ When release KEY button, it will becomes invisible.

Effect section display

It is displayed here.

[Mode Title Display]

KEY PAD JOG

[Element]

Check each KEY (Refer to the below table)

[BEAT FX ON/OFF] (Light on) : Mode change (to next mode)

[MEMORY] + [BEAT FX ON/OFF] (Light on) : Mode change (to previous mode)

[Initial state]

All LEDs and the display except MIC and CLIP are lighted on.

[Verification procedure]

Pressing a button written in the table below turns off the display or the corresponding button's LED. All LEDs are lighted off, all Level indicators are flashing at 1 second cycle (light on 0.5 second and light off 0.5 second).
Pressing [BEAT ►] and [BEAT ◄] at the same time return to the initial status.

※ If we want to check a specific button repeatedly, we can check by checking the display each time you press button.
If we want to check the LED on / off, press the button once and press [BEAT ►] and [BEAT ◄] simultaneously to initialize.
We can check by repeatedly pressing the button again afterwards.

[Correspondence table]

Self-lighting button

Function button	Lights out LED	Display indication	Function button	Lights out LED	Display indication
4BEAT LOOP/EXIT Left	—	4BEAT LOOP L	Performance pad 7 Left	—	PAD7 L
4BEAT LOOP/EXIT Right	—	4BEAT LOOP R	Performance pad 7 Right	—	PAD7 R
LOOP IN, LOOP 1/2X Left	—	LOOP IN L	Performance pad 8 Left	—	PAD8 L
LOOP IN, LOOP 1/2X Right	—	LOOP IN R	Performance pad 8 Right	—	PAD8 R
LOOP OUT, LOOP 2X Left	—	LOOP OUT L	HOT CUE Left	—	HOT CUE L
LOOP OUT, LOOP 2X Right	—	LOOP OUT R	HOT CUE Right	—	HOT CUE R
SLIP REVERSE Left	—	S.REVERSE L	PAD FX1 Left	—	PAD FX L
SLIP REVERSE Right	—	S.REVERSE R	PAD FX1 Right	—	PAD FX R
CUE Left	—	CUE L	BEAT JUMP Left	—	BEAT JUMP L
CUE Right	—	CUE R	BEAT JUMP Right	—	BEAT JUMP R
PLAY/PAUSE ►/II Left	—	PLAY L	SAMPLER Left	—	SAMPLER L
PLAY/PAUSE ►/II Right	—	PLAY R	SAMPLER Right	—	SAMPLER R
QUANTIZE Left	—	QUANTIZE L	PAGE ◄ Left	—	PAGE LEFT L
QUANTIZE Right	—	QUANTIZE R	PAGE ◄ Right	—	PAGE LEFT R
SLIP Left	—	SLIP L	PAGE ► Left	—	PAGE RIGHT L
SLIP Right	—	SLIP R	PAGE ► Right	—	PAGE RIGHT R
KEY SYNC Left	—	KEY SYNC L	MASTER TEMPO Left	—	MSTR TEMPO L
KEY SYNC Right	—	KEY SYNC R	MASTER TEMPO Right	—	MSTR TEMPO R
Performance pad 1 Left	—	PAD1 L	BEAT SYNC Left	—	SYNC L
Performance pad 1 Right	—	PAD1 R	BEAT SYNC Right	—	SYNC R
Performance pad 2 Left	—	PAD1 L	SOUND COLOR FX SELECT(NOISE)	—	CFX NOISE
Performance pad 2 Right	—	PAD2 R	SOUND COLOR FX SELECT(D. ECHO)	—	CFX DUB ECHO
Performance pad 3 Left	—	PAD3 L	SOUND COLOR FX SELECT(PITCH)	—	CFX PITCH
Performance pad 3 Right	—	PAD3 R	SOUND COLOR FX SELECT(FILTER)	—	CFX FILTER
Performance pad 4 Left	—	PAD4 L	SAMPLER CUE	—	SAMPLER CUE
Performance pad 4 Right	—	PAD4 R	HEADPHONE CUE1	—	HP CUE1
Performance pad 5 Left	—	PAD5 L	HEADPHONE CUE2	—	HP CUE2
Performance pad 5 Right	—	PAD5 R	HEADPHONE CUE3	—	HP CUE3
Performance pad 6 Left	—	PAD6 L	HEADPHONE CUE4	—	HP CUE4
Performance pad 6 Right	—	PAD6 R	MASTER CUE	—	MASTER CUE

Not Self-lighting button

No.	Function button	Lights out LED	Display indication
①-1	DECK selector 1/3	CH3 Level indicator Red	DECK1/3
②-1	SHIFT Left	CH3 Level indicator Orange	SHIFT L
③-1	MEMORY Left	CH3 Level indicator Green	MEMORY L
④-1	Rotary selector PUSH Left	CH1 Level indicator Red	BROWSEPUSH L
⑤-1	BACK Left	CH1 Level indicator Orange	BACK L
⑥-1	VIEW Left	CH1 Level indicator Green	TAG TRACK L
①-2	DECK selector 2/4	CH2 Level indicator Red	DECK2/4
②-2	SHIFT Right	CH2 Level indicator Orange	SHIFT R
③-2	MEMORY Right	CH2 Level indicator Green	MEMORY R
④-2	Rotary selector PUSH Right	CH4 Level indicator Red	BROWSEPUSH R
⑤-2	BACK Right	CH4 Level indicator Orange	BACK R
⑥-2	VIEW Right	CH4 Level indicator Green	TAG TRACK R
⑦-1	SEARCH ◄◄ Left	MASTER Level indicator L Red	SEARCH ◄◄ L
⑧-1	SEARCH ►► Left	MASTER Level indicator L Orange	SEARCH ►► L
⑨-1	BEAT ◄	MASTER Level indicator L Green upper	BEAT ◄
⑩-1	KEY RESET Left	MASTER Level indicator L Green lower	KEY RESET L
⑦-2	SEARCH ◄◄ Right	MASTER Level indicator R Red	SEARCH ◄◄ R
⑧-2	SEARCH ►► Right	MASTER Level indicator R Orange	SEARCH ►► R
⑨-2	BEAT ►	MASTER Level indicator R Green upper	BEAT ►
⑩-2	KEY RESET Right	MASTER Level indicator R Green lower	KEY RESET R

JOG

Function button	Lights out LED	Display indication
Jog dial Left Touch	Jog ring Left	JOG L TOUCH
Jog dial Right Touch	Jog ring Right	JOG R TOUCH
Jog dial Left Rotate	Jog dial display section Left	JOG ROT L
Jog dial Right Rotate	Jog dial display section Right	JOG ROT R

⑥ SW&ENCODER Confirmation Mode

[Functional overview]
Confirm whether the selected SW is operating by lighting Level indicator LED.

[Mode Title Display]
SW ENCODER

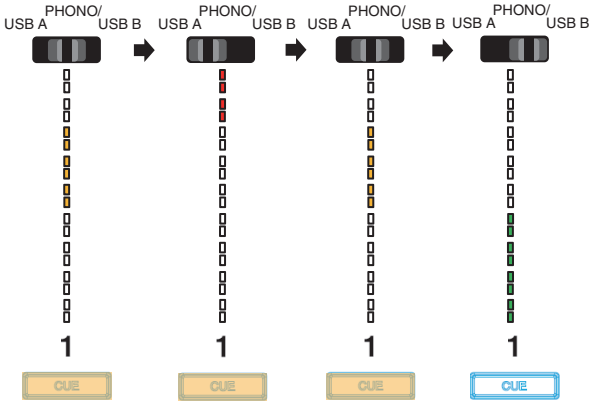
[Element]
Check each SW, Encoder

[BEAT ►][BEAT ◄]	: Group switch
[BEAT FX ON/OFF] (Light on)	: Mode change (to next mode)
[MEMORY] + [BEAT FX ON/OFF] (Light on)	: Mode change (to previous mode)

[Initial state]
This mode is selected, LED is lighting on in the following status.
(i) [MIC] and [CLIP] on Mixer section are light off.
(ii) [HEADPHONE CUE1 to 4], [SAMPLER CUE] and [MASTER CUE] are light on. (No use Group's LED is light off)
(iii) Each Level indicator corresponding to the position of each operation switch of Group1 light on. Switching Group also toggles the location of the light LED. Details are listed in the below table <Correspondence table>. However, the green LED on the lower left of CH3 and CH2 always lights on in Group4.

[Verification procedure]
Press [BEAT ►] or [BEAT ◄] to select Group. After moving Group, [HEADPHONE CUE1 to CUE4], [SAMPLER CUE] and [MASTER CUE] are light on. After confirmation, LED of “Light out LED after confirmation” is light off (the right-end column of the table). Pressing [BEAT ►] and [BEAT ◄] at the same time return to the initial state.

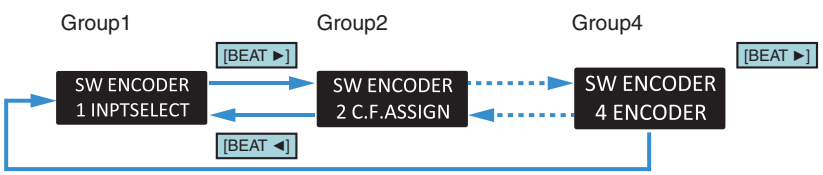
EX) INPUT SELECT CH1
Initial Position: In case of PHONO/LINE

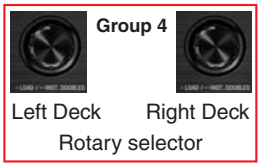


※ If Slide SW Position changes even after CUE LED light off, Level indicator will change. However, CUE LED will remain off.

When all the "Light out LED after confirmation" of the selected Group light off, linked LED lights off (LED position is green frame in the below picture). All LEDs in green frame light off, all Level indicators are flashing at 1 second cycle (light on 0.5 second and light off 0.5 second). Pressing [BEAT ►] and [BEAT ◄] at the same time return to the initial state.

[Switch Group]
It is divided into four Groups, and it switches with [BEAT ►], [BEAT ◄].





[Correspondence table]

Group1

SW ENCODER
1 INPTSELECT

Function switch		Lighting LED		Light out LED after confirmation
USB A, PHONO/LINE, USB B selector switch (CH1)	:USB A	Channel 1 Level indicator LED	Red	Headphone CUE1 LED
	:PHONO/LINE		Orange	
	:USB B		Green	
USB A, PHONO/LINE, USB B selector switch (CH2)	:USB A	Channel 2 Level indicator LED	Red	Headphone CUE2 LED
	:PHONO/LINE		Orange	
	:USB B		Green	
USB A, PHONO/LINE, USB B selector switch (CH3)	:USB A	Channel 3 Level indicator LED	Red	Headphone CUE3 LED
	:PHONO/LINE		Orange	
	:USB B		Green	
USB A, PHONO/LINE, USB B selector switch (CH4)	:USB A	Channel 4 Level indicator LED	Red	Headphone CUE4 LED
	:PHONO/LINE		Orange	
	:USB B		Green	
OFF, ON, TALK OVER selector switch	:OFF	Master lebel indicator LED	Red	MASTER CUE LED
	:ON		Orange	
	:TALK OVER		Green	

When all confirmations are completed, turn off D.ECHO LED of SOUND COLOR FX SELECT.

Group2

SW ENCODER
2 C.F ASSIGN

Function switch		Lighting LED		Light out LED after confirmation
Crossfader assign selector switch (CH1)	:Assign A	Channel 1 Level indicator LED	Red	Headphone CUE1 LED
	:THRU		Orange	
	:Assign B		Green	
Crossfader assign selector switch (CH2)	:Assign A	Channel 2 Level indicator LED	Red	Headphone CUE2 LED
	:THRU		Orange	
	:Assign B		Green	
Crossfader assign selector switch (CH3)	:Assign A	Channel 3 Level indicator LED	Red	Headphone CUE3 LED
	:THRU		Orange	
	:Assign B		Green	
Crossfader assign selector switch (CH4)	:Assign A	Channel 4 Level indicator LED	Red	Headphone CUE4 LED
	:THRU		Orange	
	:Assign B		Green	
LINE/PHONO switch (CH3)	:LINE	Master Level indicator L LED	Orange	SAMPLER CUE LED
	:PHONO		Green	
LINE/PHONO switch (CH4)	:LINE	Master Level indicator R LED	Orange	MASTER CUE LED
	:PHONO		Green	

When all confirmations are completed, turn off PITCH LED of SOUND COLOR FX SELECT.

Group3

SW ENCODER
3 BEAT FX

Function switch		Lighting LED		Light out LED after confirmation
BEAT FX SELECT control	:ECHO	Channel 3 Level indicator LED	Green	MASTER CUE LED
	:LC ECHO	Channel 3 Level indicator LED	Orange	
	:S ECHO	Channel 3 Level indicator LED	Red	
	:SPIRAL	Channel 1 Level indicator LED	Green	
	:REBERB	Channel 1 Level indicator LED	Orange	
	:TRANS	Channel 1 Level indicator LED	Red	
	:FLANGER	Channel 2 Level indicator LED	Green	
	:PHASER	Channel 2 Level indicator LED	Orange	
	:ENIGMA JET	Channel 2 Level indicator LED	Red	
	:PENROSE	Channel 4 Level indicator LED	Green	
	:PITCH	Channel 4 Level indicator LED	Orange	
	:HIHAT	Channel 4 Level indicator LED	Red	
	:SNARE	Master Level indicator LR LED	Green	
	:MOBUS OSCILLATOR	Master Level indicator LR LED	Orange	

When all confirmations are completed, turn off NOISE LED of SOUND COLOR FX SELECT.

Group4

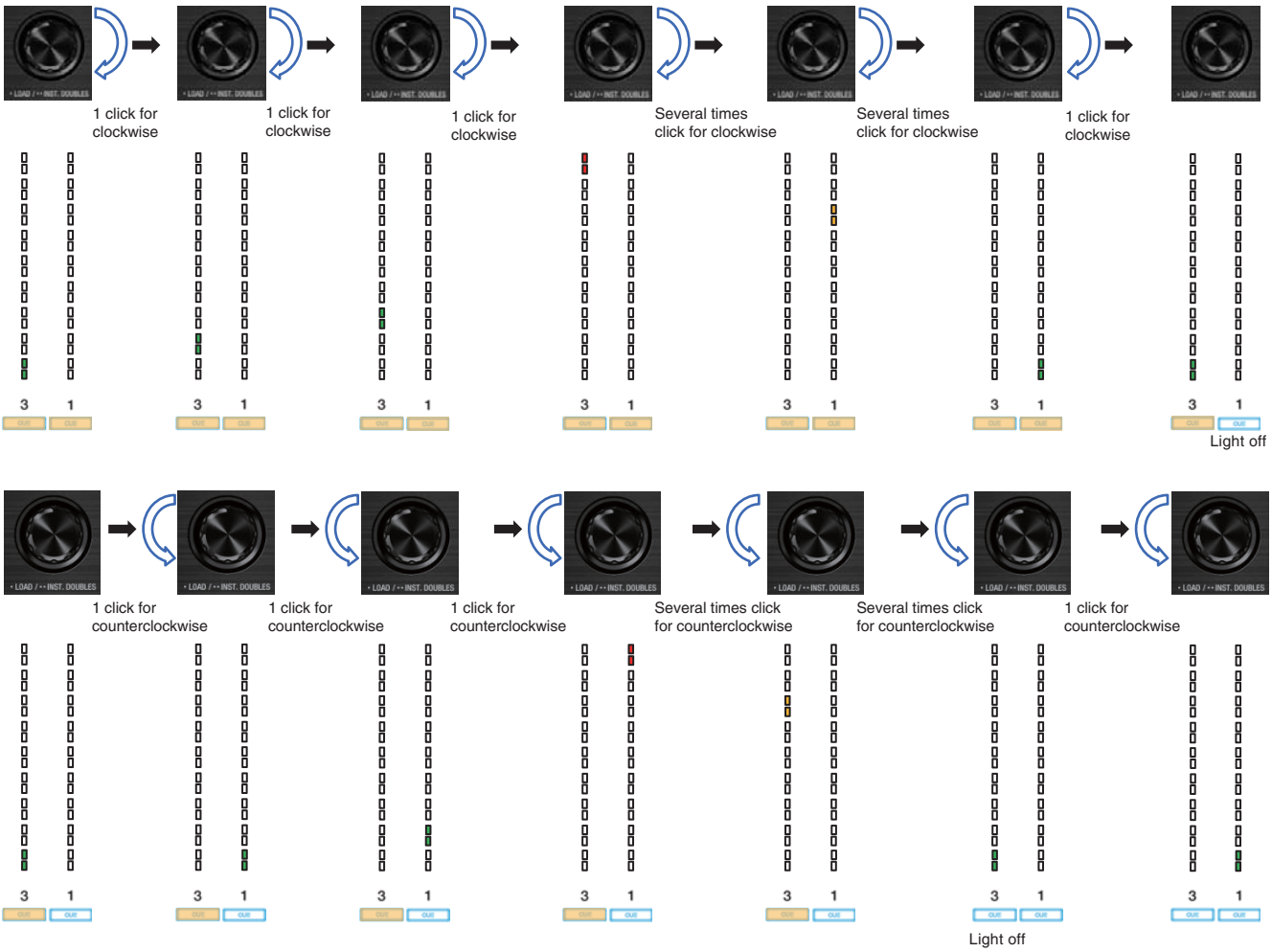
SW ENCODER
4 ENCODER

Function switch	Lighting LED	Light out LED after confirmation	Confirmation close judgment
Rotary selector Left	Channel 1 Level indicator LED	Clockwise direction: Headphone CUE1 LED	Lighting positions of the Level indicator LED pass clockwise to the first position.
	Channel 3 Level indicator LED	Counterclockwise direction: Headphone CUE3 LED	Lighting positions of the Level indicator LED pass counterclockwise to the first position.
Rotary selector Right	Channel 2 Level indicator LED	Clockwise direction: Headphone CUE4 LED	Lighting positions of the Level indicator LED pass clockwise to the first position.
	Channel 4 Level indicator LED	Counterclockwise direction: Headphone CUE2 LED	Lighting positions of the Level indicator LED pass counterclockwise to the first position.

When all confirmations are completed, turn off FILTER LED of SOUND COLOR FX SELECT.

※ If Slide SW Position changes even after CUE LED light off, Level indicator will change. However, CUE LED will remain off.

Example) In case of turning Rotary selector of Left Deck



※ Turning the Rotary selector clockwise and counterclockwise is out of order.

⑦ VOL&FADER Confirmation Mode

[Functional overview]
Confirm AD conversion value of Rotary volume and of fader by lighting Level indicator LED.

[Mode Title Display]
VOL FADER

[Element]
Check each volume

[BEAT ►], [BEAT ◄]	: Switch Group
[BEAT FX ON/OFF] (Light on)	: Mode change (to next mode)
[MEMORY] + [BEAT FX ON/OFF] (Light on)	: Mode change (to previous mode)

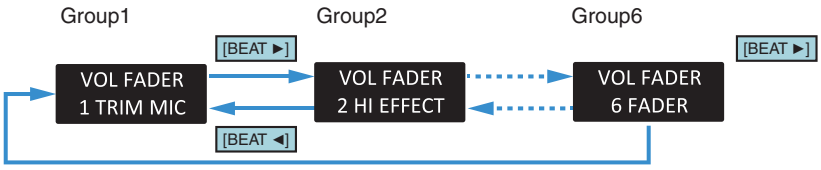
[Initial state]
The Level indicator corresponding to each volume position of Group1 lights on, and [Headphones CUE 1 to 4], [SAMPLER CUE] and [MASTER CUE] are light on.

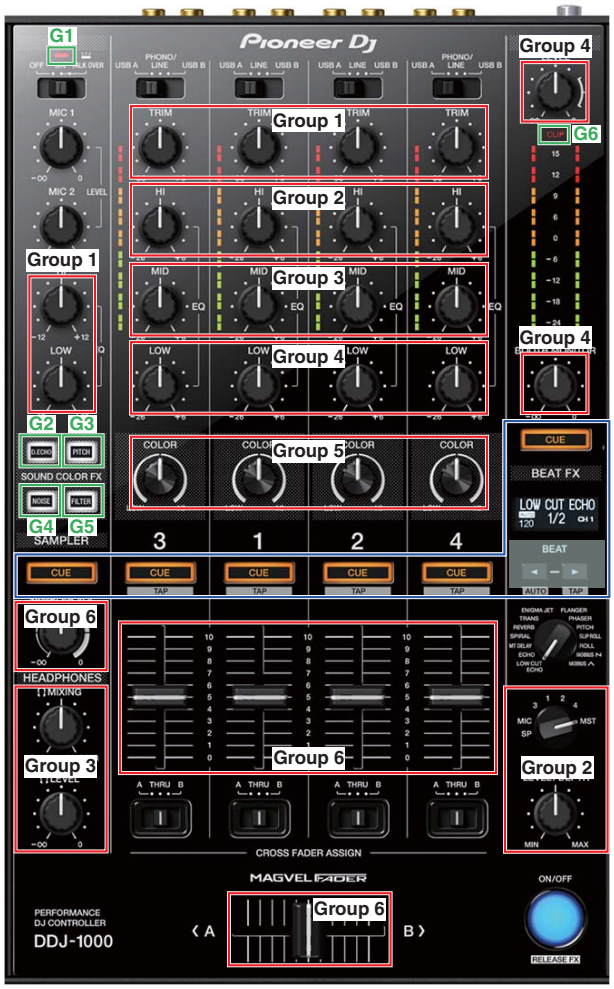
[Verification procedure]

Press [BEAT ►], [BEAT ◄] to select Group. After moving Group, [HEADPHONE CUE1 to CUE4], [SAMPLER CUE] and [MASTER CUE] are light on. When each control element is operated to the upper limit and lower limit of the range of motion and detects the maximum value and the minimum value of the voltage, “Light out LED after confirmation” will light off. When all the "Light out LED after confirmation" of the selected Group light off, linked LED lights off (LED position is green frame in the below picture). All LEDs in green frame light off, all Level indicators are flashing at 1 second cycle (light on 0.5 second and light off 0.5 second). Pressing [BEAT ►] and [BEAT ◄] at the same time return to the initial state.

[Switch Group]

It is divided into six Groups, and it switches with [BEAT ►], [BEAT ◄].





[Correspondence table]

Group1

VOL FADER
1 TRIM MIC

Function volume	Lighting LED	Lighting range	Light out LED after confirmation
TRIM control (CH1)	Channel 1 Level indicator LED	"-∞" : Lights off "+9" : Full Illuminate	Headphone CUE1 LED
TRIM control (CH2)	Channel 2 Level indicator LED	"-∞" : Lights off "+9" : Full Illuminate	Headphone CUE2 LED
TRIM control (CH3)	Channel 3 Level indicator LED	"-∞" : Lights off "+9" : Full Illuminate	Headphone CUE3 LED
TRIM control (CH4)	Channel 4 Level indicator LED	"-∞" : Lights off "+9" : Full Illuminate	Headphone CUE4 LED
MIC EQ (HI) control	Master level indicator L LED	"-12" : Lights off "+12" : Full Illuminate	SAMPLER CUE LED
MIC EQ (LOW) control	Master level indicator R LED	"-12" : Lights off "+12" : Full Illuminate	MASTER CUE LED

When all confirmations are completed, turn off MIC indicator.

Group2

VOL FADER
2 HI EFFECT

Function volume	Lighting LED	Lighting range	Light out LED after confirmation
EQ (HI) control (CH1)	Channel 1 Level indicator LED	"-26/-∞" : Lights off "+6" : Full Illuminate	Headphone CUE1 LED
EQ (HI) control (CH2)	Channel 2 Level indicator LED	"-26/-∞" : Lights off "+6" : Full Illuminate	Headphone CUE2 LED
EQ (HI) control (CH3)	Channel 3 Level indicator LED	"-26/-∞" : Lights off "+6" : Full Illuminate	Headphone CUE3 LED
EQ (HI) control (CH4)	Channel 4 Level indicator LED	"-26/-∞" : Lights off "+6" : Full Illuminate	Headphone CUE4 LED
BEAT FX CH SELECT control	Master level indicator L LED	"SAMPLER" : Lights off "MASTER" : Full Illuminate	SAMPLER CUE LED
BEAT FX LEVEL/DEPTH control	Master level indicator R LED	"-∞" : Lights off "0" : Full Illuminate	MASTER CUE LED

When all confirmations are completed, turn off D.ECHO LED of SOUND COLOR FX SELECT.

Group3

VOL FADER
3 MID HP

Function volume	Lighting LED	Lighting range	Light out LED after confirmation
EQ (MID) control (CH1)	Channel 1 Level indicator LED	"-26/-∞" : Lights off "+6" : Full Illuminate	Headphone CUE1 LED
EQ (MID) control (CH2)	Channel 2 Level indicator LED	"-26/-∞" : Lights off "+6" : Full Illuminate	Headphone CUE2 LED
EQ (MID) control (CH3)	Channel 3 Level indicator LED	"-26/-∞" : Lights off "+6" : Full Illuminate	Headphone CUE3 LED
EQ (MID) control (CH4)	Channel 4 Level indicator LED	"-26/-∞" : Lights off "+6" : Full Illuminate	Headphone CUE4 LED
HEADPHONES MIXING control	Master level indicator L LED	"CUE" : Lights off "MASTER" : Full Illuminate	SAMPLER CUE LED
HEADPHONES LEVEL control	Master level indicator R LED	"-∞" : Lights off "0" : Full Illuminate	MASTER CUE LED

When all confirmations are completed, turn off PITCH LED of SOUND COLOR FX SELECT.

Group4

VOL FADER
4 LOW LEVEL

Function volume	Lighting LED	Lighting range	Light out LED after confirmation
EQ (LOW)control (CH1)	Channel 1 Level indicator LED	"-26/-∞" : Lights off "+6" : Full Illuminate	Headphone CUE1 LED
EQ (LOW)control (CH2)	Channel 2 Level indicator LED	"-26/-∞" : Lights off "+6" : Full Illuminate	Headphone CUE2 LED
EQ (LOW)control (CH3)	Channel 3 Level indicator LED	"-26/-∞" : Lights off "+6" : Full Illuminate	Headphone CUE3 LED
EQ (LOW)control (CH4)	Channel 4 Level indicator LED	"-26/-∞" : Lights off "+6" : Full Illuminate	Headphone CUE4 LED
BOOTH MONITOR LEVELcontrol	Master level indicator L LED	"-∞" : Lights off "0" : Full Illuminate	SAMPLER CUE LED
MASTER LEVELcontrol	Master level indicator R LED	"-∞" : Lights off "0" : Full Illuminate	MASTER CUE LED

When all confirmations are completed, turn off NOISE LED of SOUND COLOR FX SELECT.

Group5

VOL FADER
5 COLOR TMPO

Function volume	Lighting LED	Lighting range	Light out LED after confirmation
COLORcontrol (CH1)	Channel 1 Level indicator LED	"LOW" : Lights off "HI" : Full Illuminate	Headphone CUE1 LED
COLORcontrol (CH2)	Channel 2 Level indicator LED	"LOW" : Lights off "HI" : Full Illuminate	Headphone CUE2 LED
COLORcontrol (CH3)	Channel 3 Level indicator LED	"LOW" : Lights off "HI" : Full Illuminate	Headphone CUE3 LED
COLORcontrol (CH4)	Channel 4 Level indicator LED	"LOW" : Lights off "HI" : Full Illuminate	Headphone CUE4 LED
TEMPO slider L	Master level indicator L LED	"MIN" : Lights off "MAX" : Full Illuminate	SAMPLER CUE LED
TEMPO slider R	Master level indicator R LED	"MIN" : Lights off "MAX" : Full Illuminate	MASTER CUE LED

When all confirmations are completed, turn off FILTER LED of SOUND COLOR FX SELECT.

Group6

VOL FADER
6 SMPL FADER

Function volume	Lighting LED	Lighting range	Light out LED after confirmation
Channel fader (CH1)	Channel 1 Level indicator LED	"LOW" : Lights off "HI" : Full Illuminate	Headphone CUE1 LED
Channel fader (CH2)	Channel 2 Level indicator LED	"LOW" : Lights off "HI" : Full Illuminate	Headphone CUE2 LED
Channel fader (CH3)	Channel 3 Level indicator LED	"LOW" : Lights off "HI" : Full Illuminate	Headphone CUE3 LED
Channel fader (CH4)	Channel 4 Level indicator LED	"LOW" : Lights off "HI" : Full Illuminate	Headphone CUE4 LED
SAMPLER VOLcontrol	Master level indicator L LED	"-∞" : Lights off "0" : Full Illuminate	SAMPLER CUE LED
Crossfader	Master level indicator R LED	"Left" : Lights off "Right" : Full Illuminate	MASTER CUE LED

When all confirmations are completed, turn off CLIP indicator.

⑧ LCD Confirmation Mode

[Functional overview]
Make sure LCD has no problem with monochrome pattern, color pattern, black, white, red, green, blue screen.

[Mode Title Display]
LCD

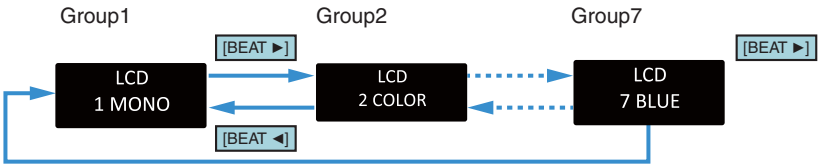
[Element]
Check each volume

[BEAT ►][BEAT ◄]	: Switch Group
[BEAT FX ON/OFF] (Light on)	: Mode change (to next mode)
[MEMORY] + [BEAT FX ON/OFF] (Light on)	: Mode change (to previous mode)

[Initial state]
All LEDs except the Effect section display are light off and Jog dial display section displays Group1.

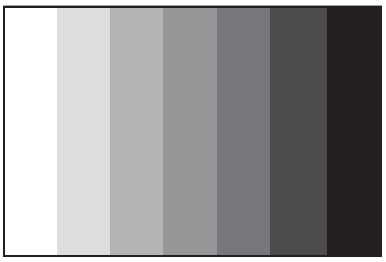
[Verification procedure]
Press [BEAT ►], [BEAT ◄] to select Group.
Change LCD display on both left and right decks.

[Switch Group]
It is divided into seven Groups, and it switches with [BEAT ►], [BEAT ◄].



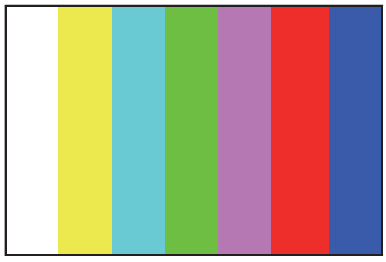
[Correspondence table]

Group1
LCD
1 MONO
Monochrome 7 colorbar (Left edge is white, Right edge is black)



Group3
LCD
3 BLACK
Black

Group2
LCD
2 COLOR
Color 7 colorbar (White, Yellow, Light blue, Green, Pink, Red, Blue)

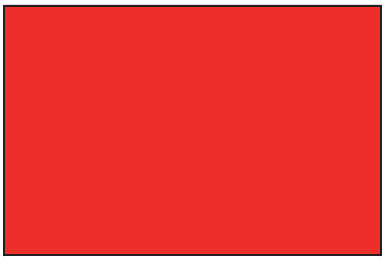


Group4
LCD
4 WHITE
White

Group5

LCD
5 RED

Red



Group7

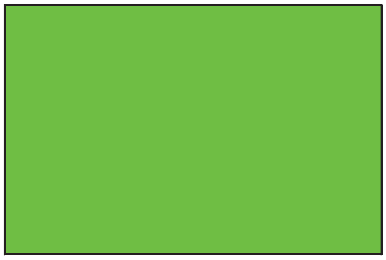
LCD
7 BLUE

Blue

Group6

LCD
6 GREEN

Green



⑧ Factory reset Mode

[Functional overview]
Pressing [BEAT SYNC] on the left and the right decks at the same time return to the factory shipment setting about the following settings.

Effect section display

FACTORY RST

[Mode Title Display]]
FACTORY RST

[Element]
Check each volume
Left [BEAT SYNC] + Right [BEAT SYNC] : Factory reset execution
[BEAT FX ON/OFF] (Light on) : Mode change (to next mode)
[MEMORY] + [BEAT FX ON/OFF] (Light on) : Mode change (to previous mode)

[Initial state]
All LED is lighting down.

[Execution procedure]
Press [BEAT SYNC] on the left and the right decks at the same time. And, return to the factory shipment setting about the following settings.

No.	Setting item	Factory shipment setting
1	MIDI Controller Settings	AUTO
2	Cross Fader Curve	32
3	Cross Fader Cut Lag	1.0 mm
4	Output setting of the microphone to the booth monitor	ON
5	Microphone Talkover Mode setting	ADVANCED
6	Microphone Talkover Level setting	-18 dB
7	Master Attenuator Level setting	0 dB
8	Monaural/Stereo Selection for Master Output	Stereo
9	Booth Attenuator Level setting	0 dB
10	Monaural/Stereo Selection for Booth Output	Stereo
11	Peak Limiter setting for Master Output	Enable
12	Microphone sound limiter setting added to Master Output	Enable
13	Microphone sound limiter setting added to Booth Output	Enable
14	Demo/Screen saver setting	10 minutes
15	Auto Standby setting	Enable
16	Jog > Brightness of the display setting	5
17	Mixer > Brightness of the display setting	3

"FINISHED" will be displayed at the bottom of Effect section display when the reset is completed.

"FAIL" will be displayed at the bottom of Effect section display when the reset is failed.

⑩ JOG dial rotation load adjustment Mode

Refer to "8.3 ADJUSTMENT METHOD FOR ROTATION LOAD OF THE JOG DIALS".

⑪ Crossfader Calibration Mode

Refer to "6.3 CROSSFADER CALIBRATION MODE".

6.2 LCD CALIBRATION MODE

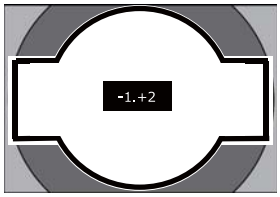
[Functional overview]
This mode is adjusting the position of LCD and LCD sheet by LCD display position calibration.

[Mode Title Display]
LCD SET

[Element]

[HOT CUE]	: Move the black line to the left by 1 pixel only by pressing the button.
[PAD FX1]	: Move the black line to the right by 1 pixel only by pressing the button.
[BEAT JUMP]	: Move the black line to the up by 1 pixel only by pressing the button.
[SAMPLER]	: Move the black line to the down by 1 pixel only by pressing the button.
[PAGE ◄][PAGE ►]	: Press the button at the same time to save the setting.
[BEAT ►][BEAT ◄]	: It can change the setting again by pressing the button.
[BEAT FX ON/OFF] (Light on)	: Change the mode (to next mode)
[MEMORY] + [BEAT FX ON/OFF] (Light on)	: Change the mode (to previous mode)

[How to do the calibration]
I : Effect section display and the button of [HOT CUE], [PAD FX1], [BEAT JUMP] and [SAMPLER] light on in white.
II : [PAGE ◄] and [PAGE ►] light on in red.
III : All JOG LED flash.
IV : The button without I, II and III light off.
V : LCD displays as follows.
※ If you have done this mode before, the previously saved status will be displayed.



① Adjust while watching the LCD from directly above so that the clearance between the black line of the LCD display and the black printed position of the LCD sheet becomes uniform. Adjustment is done with [HOT CUE], [PAD FX1], [BEAT JUMP] and [SAMPLER] buttons on each deck. See below for directions of movement. The range that can be moved is up to 4 pixels maximum in the up / down / left / right direction with respect to the initial state.

[HOT CUE]	: Move the black line to the left by 1 pixel only by pressing the button. ※
[PAD FX1]	: Move the black line to the right by 1 pixel only by pressing the button. ※
[BEAT JUMP]	: Move the black line to the up by 1 pixel only by pressing the button. ※
[SAMPLER]	: Move the black line to the down by 1 pixel only by pressing the button. ※

※ Adjust the LCD with the controls on each deck (left / right).

※ Be sure to check the LCD from directly above when aligning the black line. Otherwise, it cannot be accurately calibration.

② When the adjustment is completed, press [PAGE ◄] and [PAGE ►] buttons on each deck to save the setting. Then, [HOT CUE], [PAD FX1], [BEAT JUMP], [SAMPLER], [PAGE ◄] and [PAGE ►] buttons light off.

When you press [BEAT ►], the left side deck can be corrected again.
(The state returns to the condition on the left side deck to start the adjustment.)
When you press [BEAT ◄], the right side deck can be corrected again.
(The state returns to the condition on the right side deck to start the adjustment.)

※ At that time, the last saved setting is displayed on the LCD.

[The warning display when calibration is not performed]
If calibration is not performed, all PADs on the left deck will flash in blue in the version display mode.
Refer to "6.1 SERVICE MODE_① Version Display Mode".

Confirmation method with this mode:

When LCD calibration of Left Deck is not carried out :	The JOG ring on Left Deck will be flashing. (Max brightness ➡ Light off ➡ Max brightness ➡ …)
When LCD calibration of Left Deck is carried out :	The JOG ring on Left Deck will turn off.
When LCD calibration of Right Deck is not carried out :	The JOG ring on Right Deck will be flashing. (Max brightness ➡ Light off ➡ Max brightness ➡ …)
When LCD calibration of Right Deck is carried out :	The JOG ring on Right Deck will turn off.

6.3 CROSSFADER CALIBRATION MODE

[Functional overview]

This mode is for performing calibration of the crossfader. The following two calibration operations are consecutively performed:

Calibration 1 : It records the crossfader position of the specified three points.
It needs "Crossfader calibration jig (GGF1724)".

Calibration 2 : It records the values of the two points at both ends.
It needs "Crossfader calibration jig (GGF1724)".

[Mode Title Display]

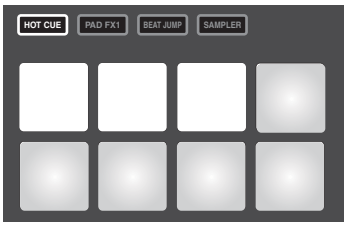
CRF SET

[Element]

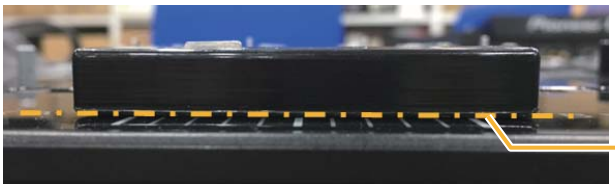
[HOT CUE] on the left Deck	: Save Calibration 1
[PAD FX1] on the left Deck	: Save Calibration 2
[BEAT ►][BEAT ◄]	: Switching the calibration result
[BEAT FX ON/OFF] (Light on)	: Mode change (to next mode)
[MEMORY] + [BEAT FX ON/OFF] (Light on)	: Mode change (to previous mode)

[Calibration 1]

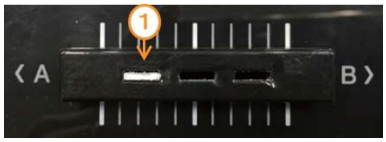
When this mode is selected, PAD1, PAD2, PAD3 and [HOT CUE] button light on in white. Other LEDs light off.



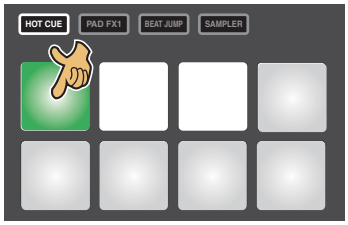
※ For positioning, be sure to use "Crossfader calibration jig (GGF1724)". Please make sure that Jig is grounded to the panel surface as shown below. Otherwise, it cannot be accurately calibration.
Please make sure that Jig is grounded to the panel surface.



① Move Crossfader to Point1 (hole on the left) and press PAD1 on the left deck. AD value of Crossfader is saved and the PAD1 color will become green. In addition, "CLB1-1" and the current AD value (****) are displayed on Effect section display.



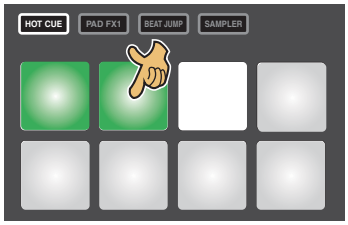
Effect section display



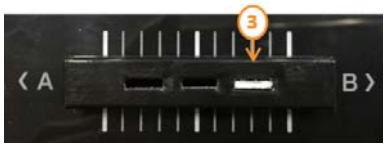
② Move Crossfader to Point2 (hole on the left) and press PAD2 on the left deck. AD value of Crossfader is saved and the PAD2 color will become green. In addition, "CLB1-2" and the current AD value (****) are displayed on Effect section display.

CRF SET
CLB1-2 ****

Effect section display

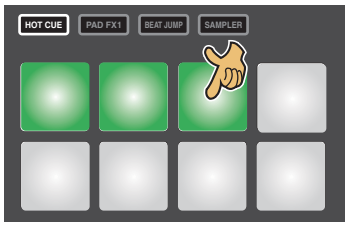


③ Move Crossfader to Point3 (hole on the left) and press PAD3 on the left deck. AD value of Crossfader is saved and the PAD3 color will become green. In addition, "CLB1-3" and the current AD value (****) are displayed on Effect section display.



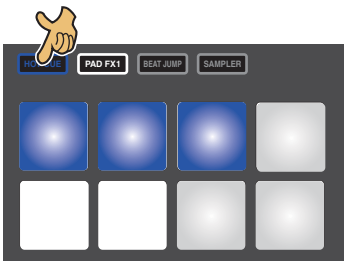
CRF SET
CLB1-3 ****

Effect section display



④ Press [HOT CUE] on the left deck.
[PAD FX1] button, PAD5 and PAD6 light on in white.

Display of normally finish

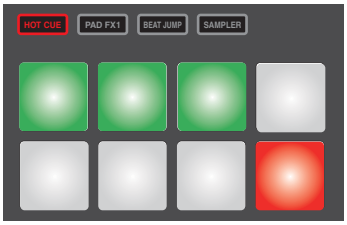


[The error display of Calibration 1]
There are three cases where Calibration 1 becomes NG in the following way.

No.	Content of NG	PAD lights on in red
I	Step ④ was executed without measuring 3 points	PAD 4 on the left deck
II	Measurement value of each measurement point is not within the range.	PAD 7 on the left deck
III	The set value relationship is wrong	PAD 8 on the left deck

When any of the above errors occurs, [HOT CUE] button on the left deck and the corresponding PAD light on in red.
In this state, any operation is invalid. Please turn off the power once and try again. If it gets an error even if do it again, Crossfader may be faulty. Refer to "The crossfader does not function or functions abnormally." of "5.2 TROUBLESHOOTING".

Display when an error occurs (in the case of error in III)



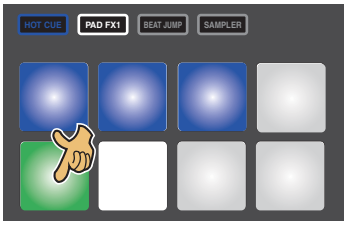
[Calibration 2]
When Calibration 1 completes normally, Calibration 2 continues.

※ Please move slowly and surely when aligning to the edge of the left side and the right side.
Otherwise, it can not be accurately calibration.

⑤ Move Crossfader to the left end and press PAD5 on the left deck. AD value of Crossfader is saved and the PAD5 color will become green. In addition, "CLB2-1" and the current AD value (****) are displayed on Effect section display.

CRF SET
CLB2-1 ****

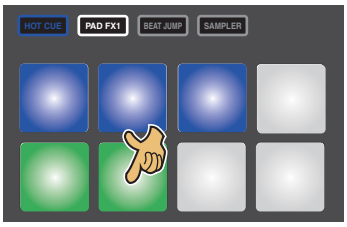
Effect section display



⑥ Move Crossfader to the right end and press PAD6 on the left deck. AD value of Crossfader is saved and the PAD6 color will become green. In addition, "CLB2-2" and the current AD value (****) are displayed on Effect section display.

CRF SET
CLB2-2 ****

Effect section display



⑦ Press [PAD FX] on the left deck. [PAD FX1] button, PAD5 and PAD6 light on in blue. And, saving the set value to the serial flash is completed.

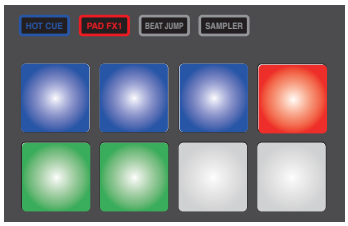
Display of normally finish

[The error display of Calibration 2]
There are three cases where Calibration 2 becomes NG in the following way.

No.	Content of NG	PAD lights on in red
I	Saving to the serial flash without measuring 2 points	PAD 4 on the left deck
II	Measurement value of each measurement point is not within the range.	PAD 7 on the left deck
III	The set value relationship is wrong (Including Calibration 1)	PAD 8 on the left deck

When any of the above errors occurs, [HOT CUE] button on the left deck and the corresponding PAD light on in red.
In this state, any operation is invalid. Please turn off the power once and try again. If it gets an error even if do it again, Crossfader may be faulty. Refer to "The crossfader does not function or functions abnormally." of "5.2 TROUBLESHOOTING".

Display when an error occurs (in the case of error in I)



[Displaying the result of calibration]

When Calibration 1 and 2 are completed, five calibration values can be confirmed on the Effect section display.
Press [BEAT ►] and [BEAT ◄] button to switch the display of results in the following order.

CLB1-1
CLB1-2
CLB1-3
CLB2-1
CLB2-2

[The warning display when calibration is not performed]

If calibration is not performed, all PADs on the left deck will flash in blue in the version display mode.
Refer to "6.1 SERVICE MODE_① Version Display Mode".

6.4 ABOUT THE DEVICE

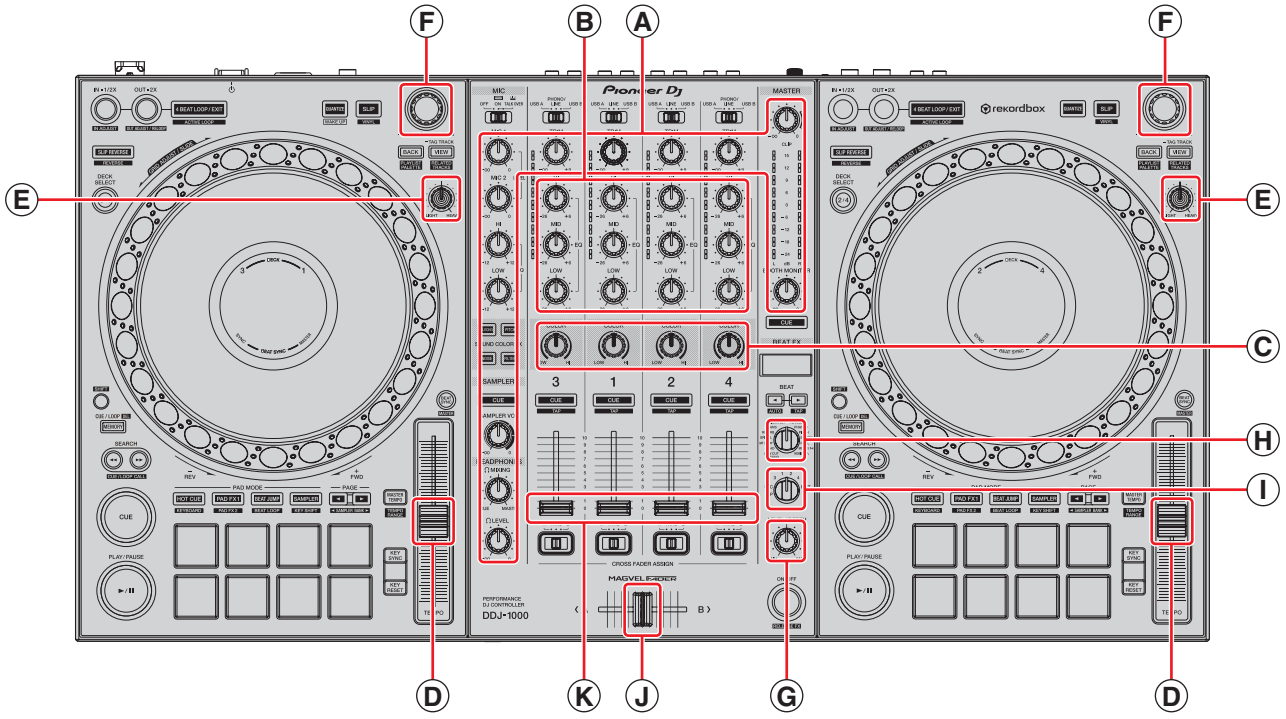
Device Name	Function	Part No.	Reference No.	Assy
PNL1 UCOM (M16 EUP/MIXER)	Standby control, Elements of Mixer Section and LED control	DYW※※※※	IC1001	MAIN Assy
PNL2 UCOM (M16 DECK)	Elements of Deck Section and LED control	DYW※※※※	IC1501	MAIN Assy
USB1 UCOM (SH7269)	USBA control	R5S72690W266FP (NSP)	IC2003	MAIN Assy
USB2 UCOM (SH7269)	USBB control	R5S72690W266FP (NSP)	IC2502	MAIN Assy
SPI FLASH (USB UCOM)	ROM for USB1/USB2 UCOM	DYW※※※※	IC2001	MAIN Assy
DSP	Audio DSP	D810K013DZKB400	IC3001	MAIN Assy
SDRAM for DSP	SDRAM for DSP	M12L128168A-5TG2N	IC3002	MAIN Assy
Audio DAC	Audio DAC	AK4458VN	IC5201	MAIN Assy
Audio ADC	Audio ADC	AK5358AET	IC4005, IC4006, IC4405, IC4406, IC4803	MAIN Assy
LCD1 UCOM (LEFT DECK)	3.5 inch LCD device control	R5S72690W266FP (NSP)	IC7001	LCDL Assy
SPI FLASH (LCD1 UCOM)	ROM for LCD UCOM (Left Deck)	DYW※※※※	IC7002	LCDL Assy
LCD2 UCOM (RIGHT DECK)	3.5 inch LCD device control	R5S72690W266FP (NSP)	IC7501	LCDR Assy
SPI FLASH (LCD2 UCOM)	ROM for LCD UCOM (Right Deck)	DYW※※※※	IC7502	LCDR Assy
OLED Module	OLED Module	MXS4057	Connect to CN8502	— (Unit)
3.5 inch LCD MODULE	LCD Module for JOG	DWX4141	Connect to CN7002/CN7502	— (Unit)

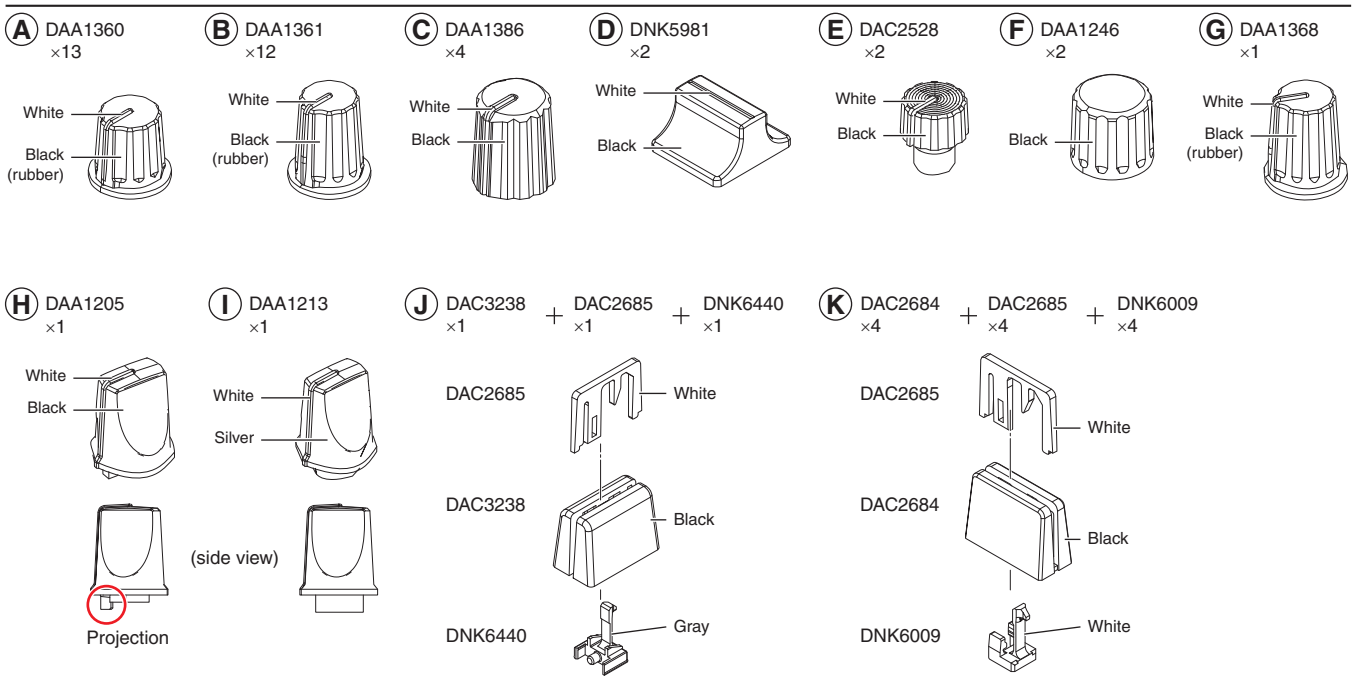
Note on DYW※※※※
The "※※※※" part of the part number changes each time the firmware is updated.

7. DISASSEMBLY

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

Knobs and Volumes Location





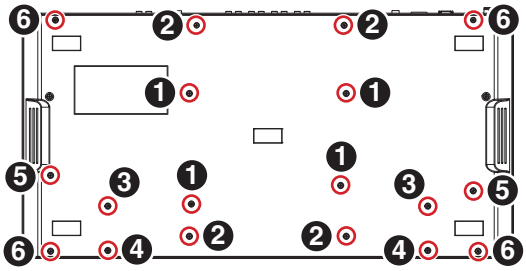
Disassembly

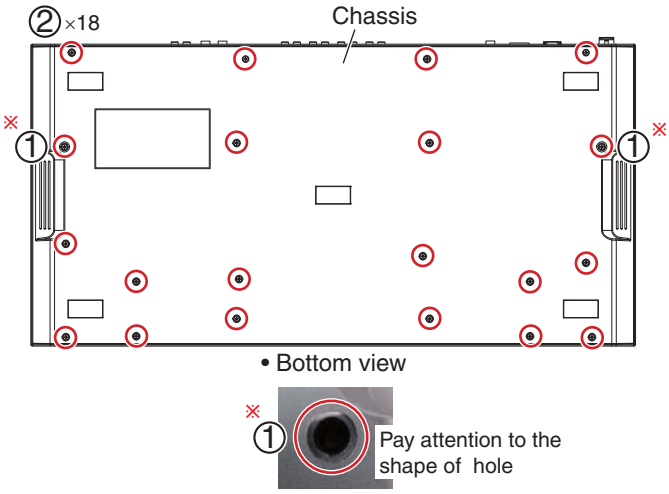
[1] Chassis Section

[1-1] Chassis

① Remove the 2 screws.
(BBZ30P080FTB)
② Remove the 18 screws and then, remove the Chassis.
(BPZ30P120FTB)

Screw tightening order

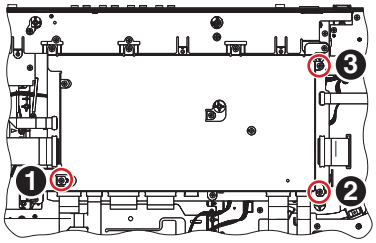


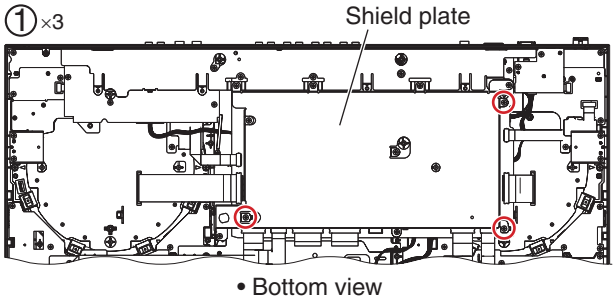


[1-2] Shield plate

① Remove the 3 screws.
(BPZ30P080FNI)

Screw tightening order

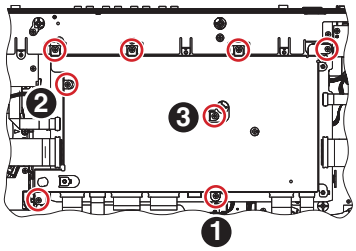


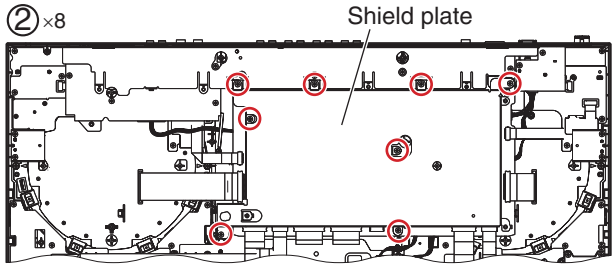


② Remove the 8 screws and then, remove the Shield plate.
(BBZ30P060FTB)

Screw tightening order

The other screws are random order.

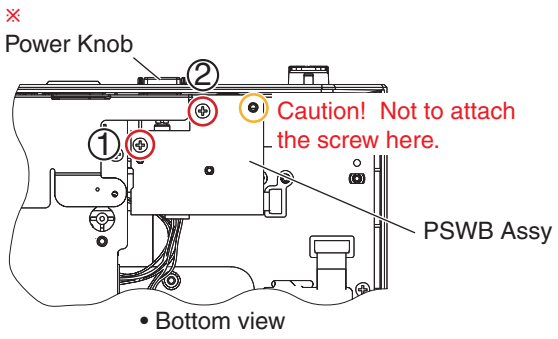




[1-3] PSWB Assy

① Remove the 1 screw.
(BPZ30P080FNI)
② Remove the 1 screw and then, remove the PSWB Assy.
(BBZ30P060FTB)

※ Remove it with PSWB Assy so that Power Knob does not get stuck.

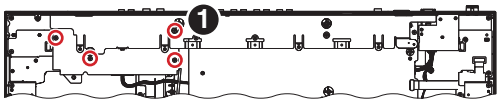


[1-4] Chassis Section

① Remove the 4 screws.
(BPZ30P080FNI)

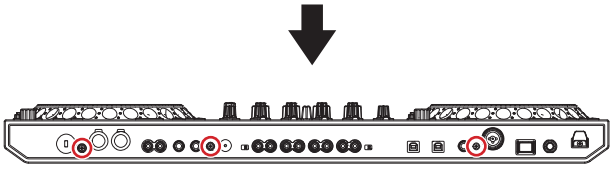
Screw tightening order

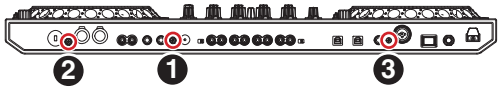
The other screws are random order.



② Remove the 3 screws.
(BBZ30P060FTB)

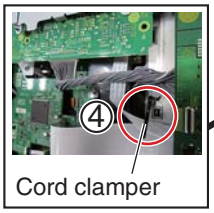
Screw tightening order

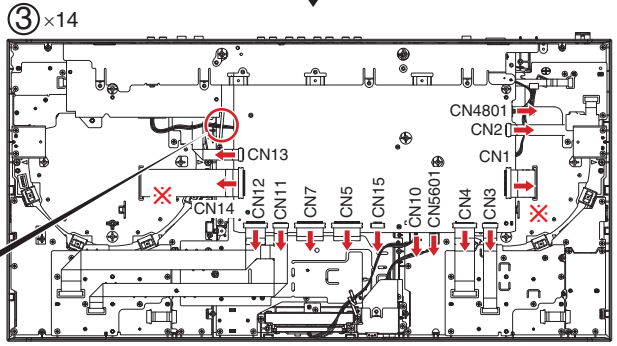




③ Disconnect the 11 flexible cables and 3 connectors.
(CN1-5, 7, 10-15, 4801, 5601)

Caution:
The locking function of the connectors of CN1, CN4, CN5, CN7, CN12, CN14 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.





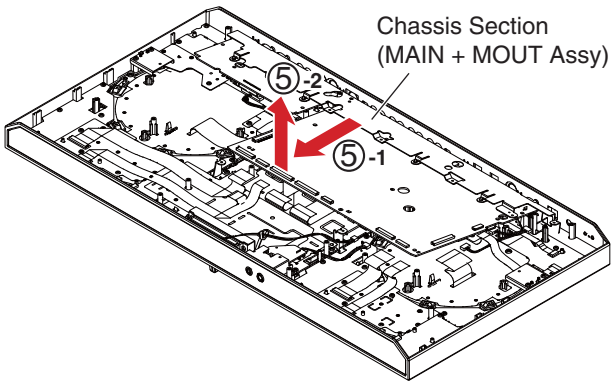
④ Lift the Cord clamper.

※:
When measuring the JOG load in the Service mode after exchanging the parts of the JOG dial Section, it uses extension jig cable (GGD1902) instead of this FFC.
Otherwise the Adjust plate can not be operated.

⑤ Remove the Chassis Section.

Diagnosis

Refer to
"5.3 MAIN ASSY DIAGNOSIS METHOD".

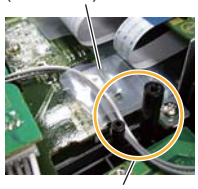


• Bottom view

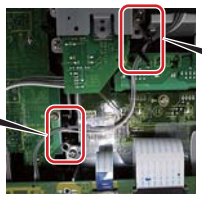
■ Notes on Reassembly

Wire the wiring between MAIN and CRFB as below photos.

Hold wiring with Sheet (DEC3770)



Set the wiring between the two bosses

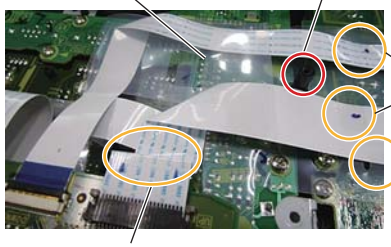


Wire with the Cord clamper holding

Wire the wiring between PADB_L and MAIN as below photos.

Hold wiring with Sheet (DEC3770)

※ Wire so that FFC does not go to the tip of this boss



Pass wiring in the slit of Sheet (DEC3770) and hold it (3 places)

Fold FFC as shown in this photo

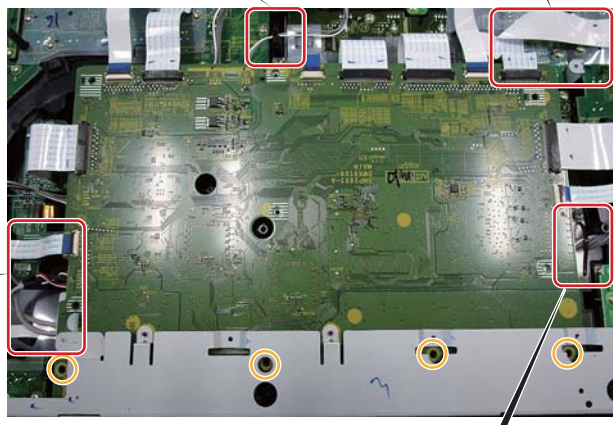
Pay attention to the order of wiring overlap
Wire in order of the following photo.

Wiring between PSWB and MAIN

Wiring between LOOP_L and MAIN

Wiring between MIXER and MAIN

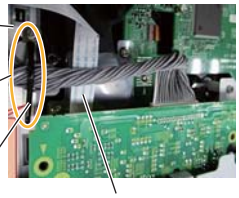
PSWB Assy



○ : Not to attach the screw here (4 places).

Pay attention to the order of wiring overlap
Wire in order of the following photo.

I-shield sheet



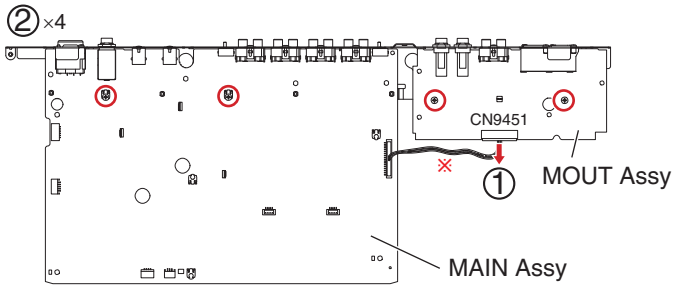
Wiring between MAIN and MOUT:
Fix it so that it is pinched by
I-shield sheet with Cord clamper
holding.

Cord clamper

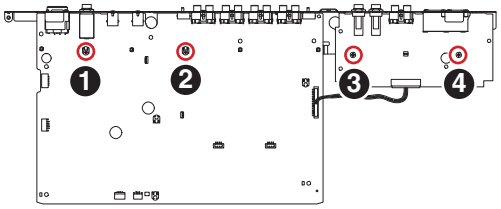
Wiring between LOOP_R and MAIN :
Pass the top side of the wire that is
between MAIN and MOUT.

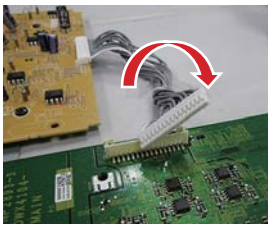
[1-5] MAIN and MOUT Assemblies

① Disconnect the 1 connector. (CN9451)
② Remove the 4 screws. (BBZ30P060FTB)



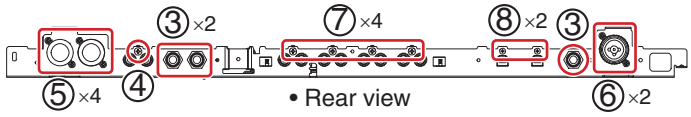
Screw tightening order

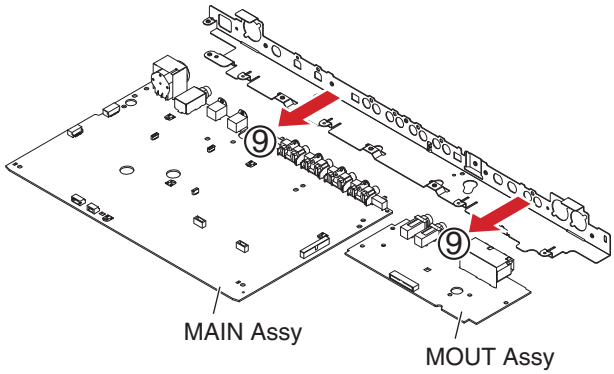




※ When connecting MOUT and the MAIN, turn the wire three times in a clockwise and then connect it to the connector on the MAIN Assy.

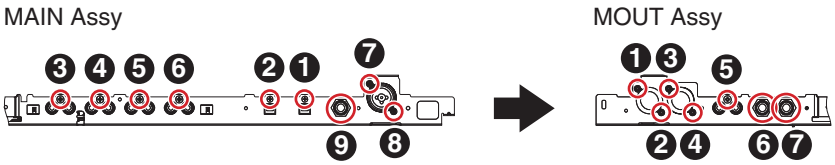
③ Remove the 3 nuts. (NKX2FTC)
④ Remove the 1 screw. (BPZ30P080FTB)
⑤ Remove the 4 screws. (PPZ30P080FTB)
⑥ Remove the 2 screws. (PPZ30P080FTB)
⑦ Remove the 4 screws. (BPZ30P080FTB)
⑧ Remove the 2 screws. (DBA1340)
⑨ Remove the MAIN and MOUT Assemblies.





Screw tightening order

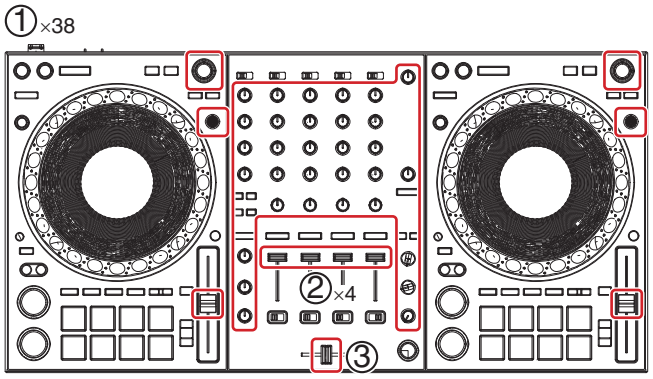
※ Work earlier than the screws of procedure ② surely.



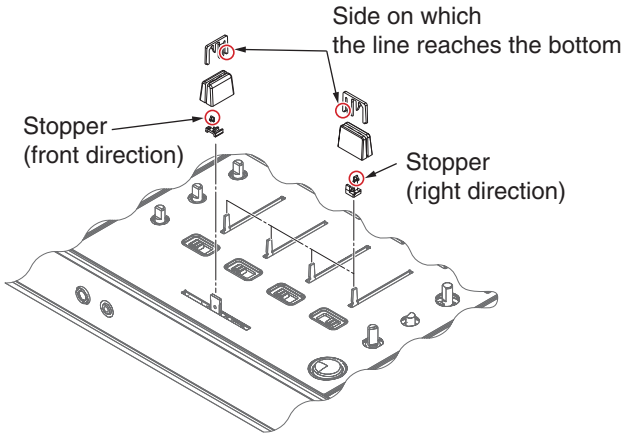
[2] Control panel Section

[2-1] Knobs

① Remove the all knobs.
② Remove the 4 Slider knobs 2,
4 Slider knobs 1, 4 Stoppers.
(See below.)
③ Remove the Slider knob 2, Slider knob 1,
Stopper/SLD.
(See below.)



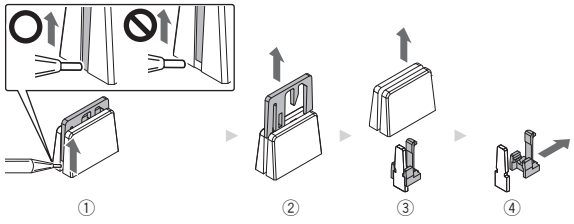
The reference of the direction

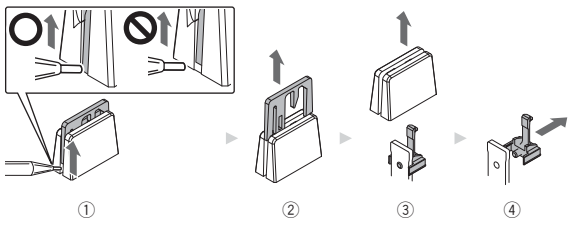


■ Assembly / Reassembly of the Slider Knob 2, Slider Knob 1 and Stopper (Stopper/SLD)

-Disassembly-

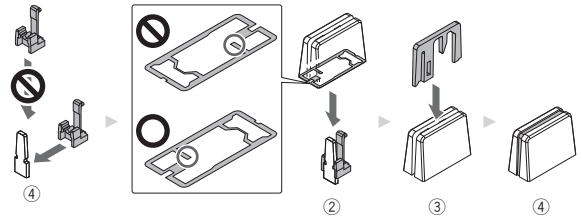
① Lift the lower end of the Slider knob 2, using a pointed tool.
② Pull the Slider knob 2 out upward.
③ Pull the Slider knob 1 out upward.
④ Pull the Stopper (Stopper/SLD) out horizontally.

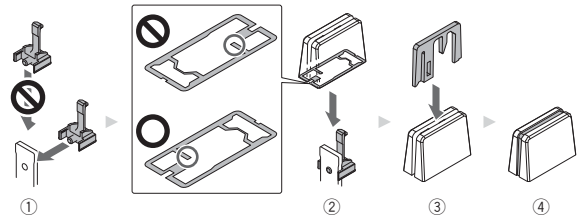




-Reassembly-

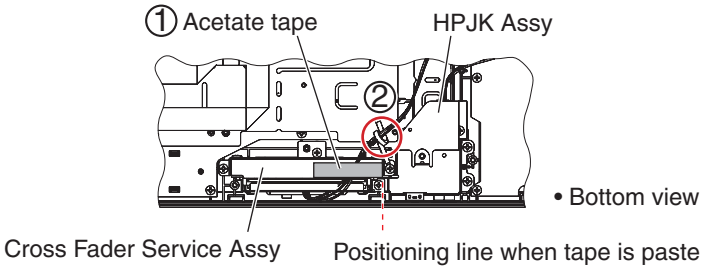
① Insert the Stopper (Stopper/SLD) horizontally.
② Insert the Slider knob 1, paying attention to its orientation.
③ Insert the Slider knob 2, paying attention to its orientation.



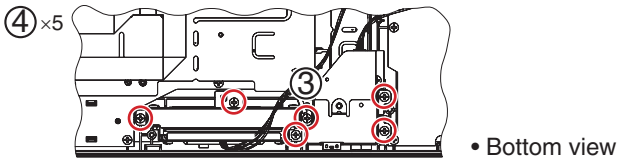


[2-2] Cross Fader Service Assy and HPJK Assy

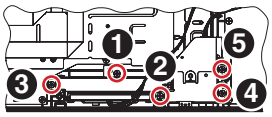
① Remove the Acetate tape.
② Release the jumper wire from the Cord clamper.



③ Remove the 1 screw.
(BPZ30P080FNI)
④ Remove the 5 screws and then, remove the Cross Fader Service Assy and HPJK Assy Section.
(BPZ30P080FNI)



Screw tightening order

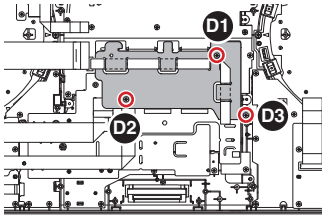


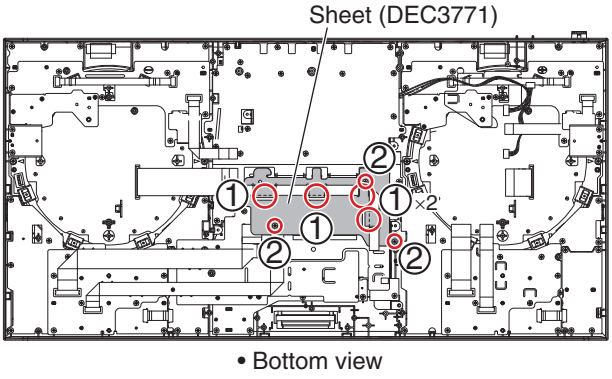
[2-3] MIXER, BFXB and OLED Assemblies

● **Sheet**

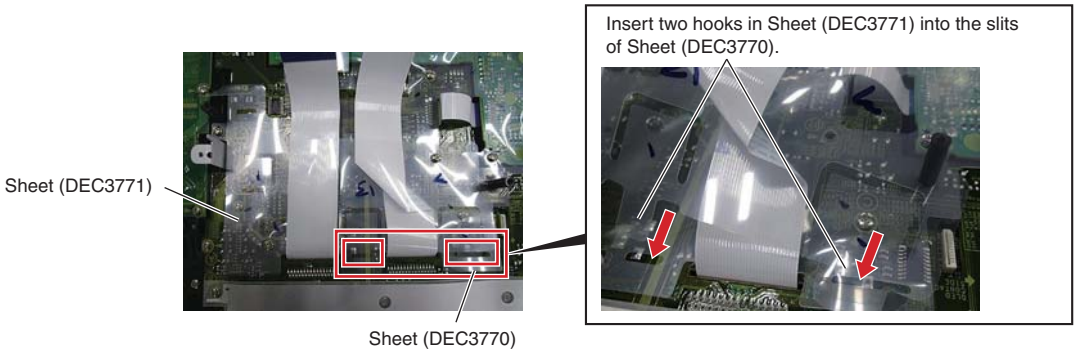
① Unhook the 4 hooks.
② Remove the 3 screws and then, remove the Sheet.
(BPZ30P080FNI)

Screw tightening order





■ Notes on Reassembly

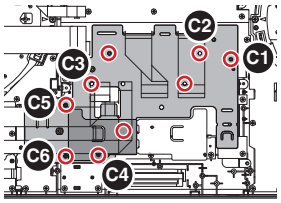


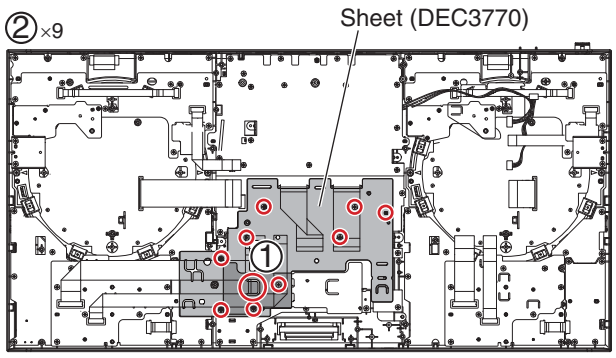
● **Sheet**

① Unhook the 1 hook.
② Remove the 9 screws and then, remove the Sheet.
(BPZ30P080FNI)

Screw tightening order

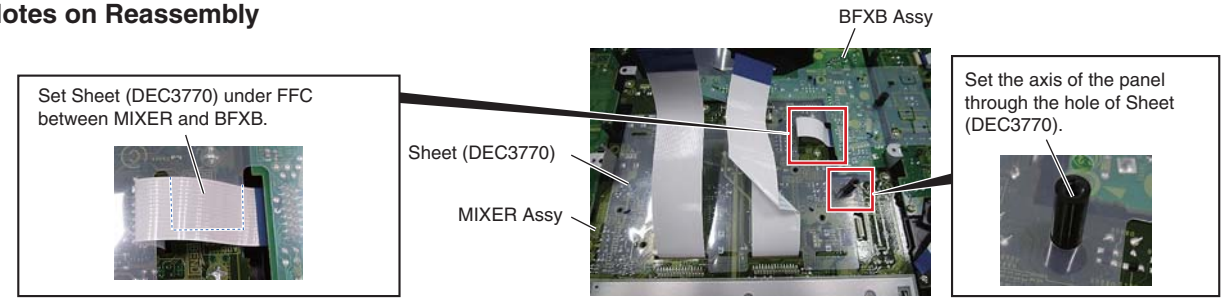
The other screws are random order.





• Bottom view

■ Notes on Reassembly

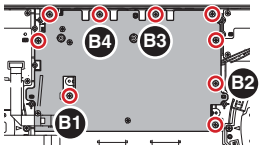


● **I-shield Sheet**

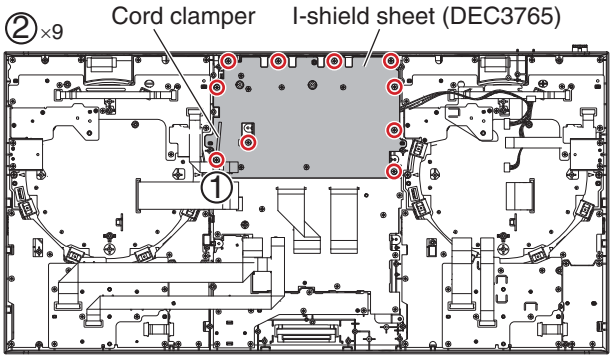
① Remove the 1 screw and then, remove the Cord clamper.
(BPZ30P080FNI)
② Remove the 9 screws and then, remove the I-shield sheet.
(BPZ30P080FNI)

Screw tightening order

The other screws are random order.

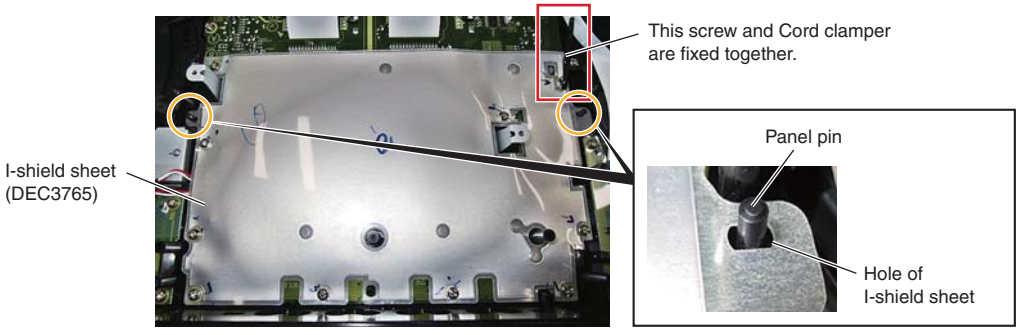


※ Numbers are printed on MIXER Assy, numbering hidden when I-shield sheet is set.



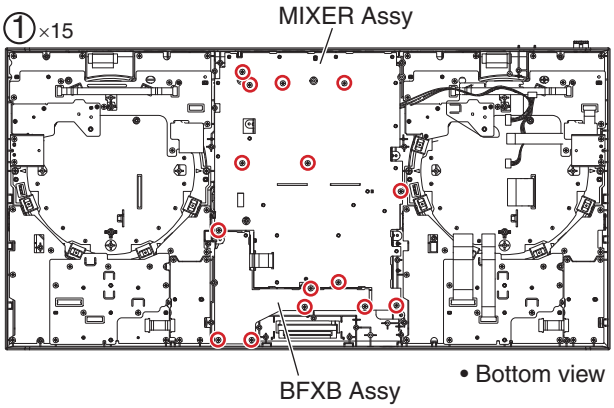
• Bottom view

■ Notes on Reassembly



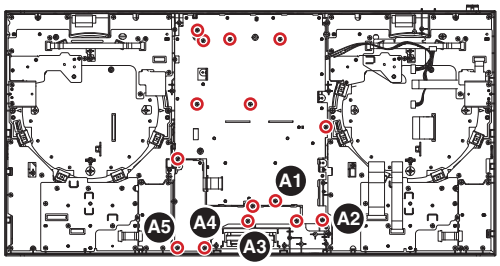
● MIXER and BFXB Assemblies

① Remove the 15 screws and then, remove the MIXER and BFXB Assemblies.
(BPZ30P080FNI)



Screw tightening order

The other screws are random order.

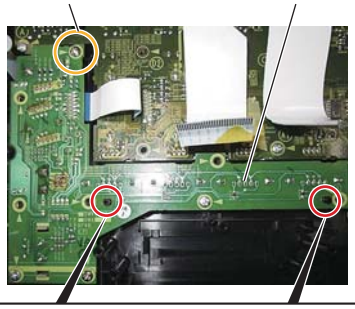


■ Position adjustment of FX select knob

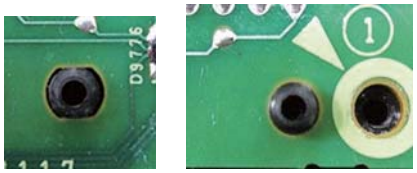
Fine adjustment of the position is necessary for the BFXB Assy.
(After fixing screw "Ⓐ" of MIXER Assy and of BFXB Assy, confirmation and position adjustment of BFXB Assy are necessary.)

In addition to fixing the Ⓐ part, also fix the Ⓒ part temporarily.

BFXB Assy



※ Confirm that the positional relationship between this positioning pin (panel) and the hole (BFXB) is roughly in the center



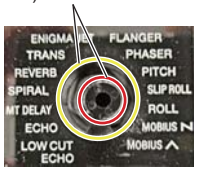
Turn the knob counterclockwise to the end

Turn the knob clockwise to the end

Turn FX select knob in the direction of the arrow to the end.
At that time, check whether the knob is held by deviating from the position of the command selector.
➡ If the knob is not held, it is OK.
If not, adjust the position of BFXB Assy and check again.

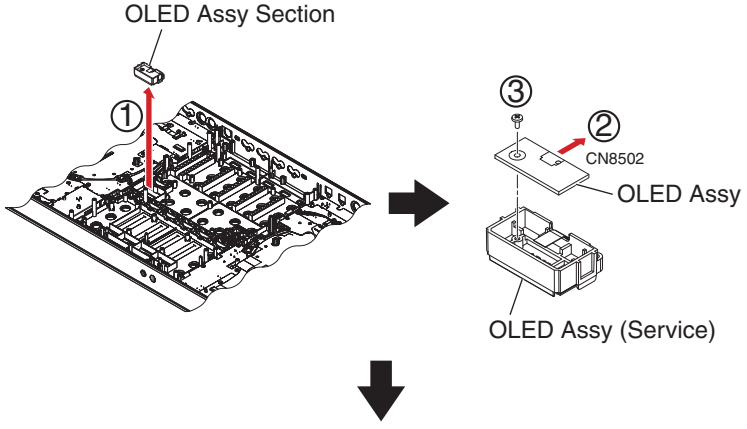
If it is held, adjust the position with reference to the Fig. on the right.

Adjust the position while loosening the screws on BFXB Assy so that the center of the hole (yellow circle) of the panel and the center of the encoder axis (red circle) coincide.



● OLED Assy

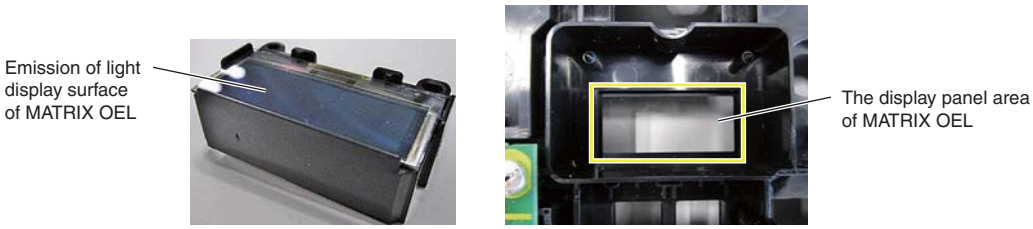
① Remove the OLED Assy Section.
② Disconnect the 1 flexible cable.
(CN8502)
③ Remove the OLED Assy.
(BPZ20P040FTB)



■ Notes on Reassembly

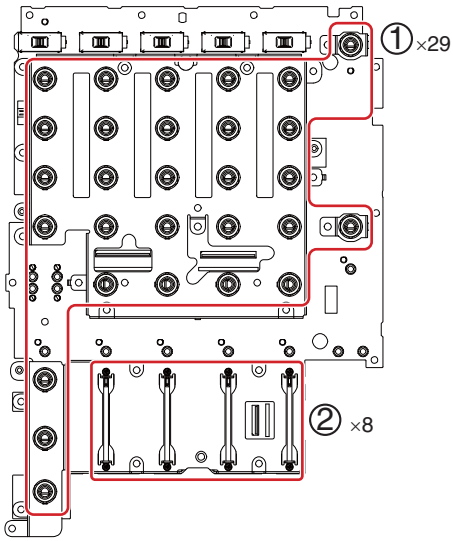
MATRIX OEL and OLED holder are fixed with DS tape.
Be sure to replace MATRIX OEL with Assy (OLED Assy (Service)(DEA1184)).

When exchanging MATRIX OEL, ensure that dirt and dust do not adhere to the display surface of MATRIX OEL and the MATRIX OEL display panel of MIXER PANEL on the opposite side. If it is dirty, clean it before assembling.



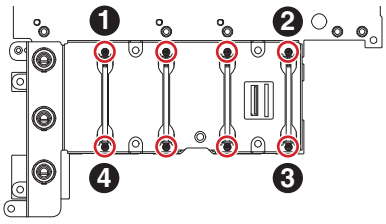
● MIXER Assy

① Remove the 29 nuts and 29 washers.
② Remove the 8 screws.
(PMH20P040FTC)



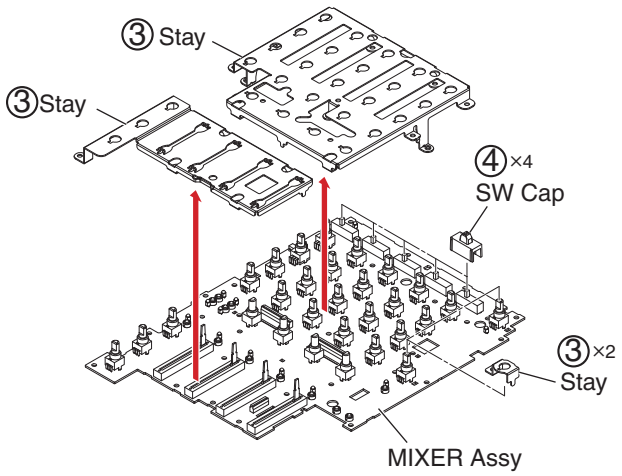
Screw tightening order

The other screws are random order.



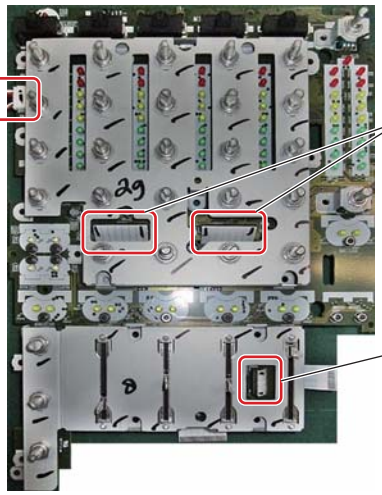
※ Work earlier than the nuts of procedure ① surely.

③ Remove the 4 Stays.
④ Remove the 4 SW Caps.



■ Notes on Reassembly

Wiring between MIXER and MAIN
Connect it before fixing the Control panel

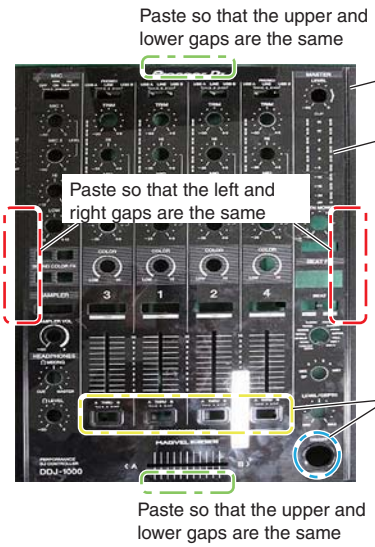


These two FFCs are folded at the base of the reinforcing plate.

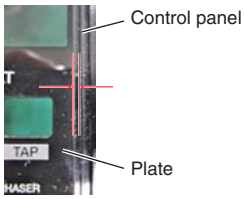
This FFC is folded at the base of the reinforcing plate.

■ Notes on Reassembly (MIXER Control panel Section)

When pasting, paste it so that the gaps of the four corners of Plate and Control panel are the same as much as possible.

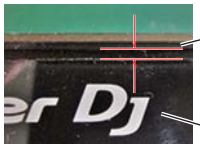


:



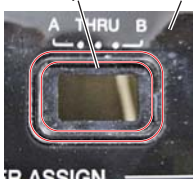
Make the left and right gaps between Plate and Control panel the same

:



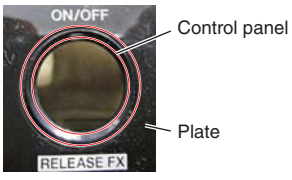
Make the upper and lower gaps between Plate and Control panel the same

:



Make the surrounding gaps between Plate and Control panel the same

:



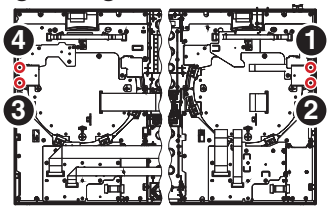
Make the surrounding gaps between Plate and Control panel the same

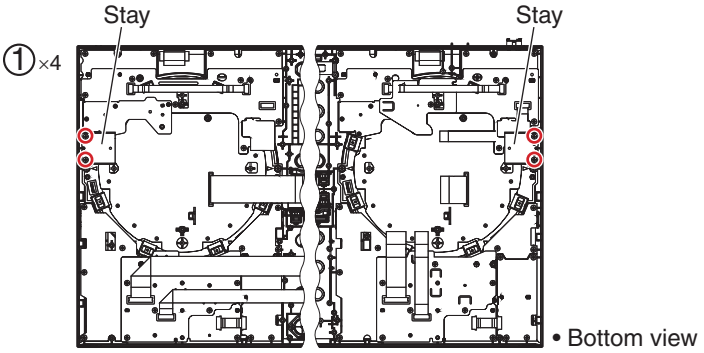
[2-4] Deck Section

● Stay

① Remove the 4 screws and then, remove the 2 Stays.
(BPZ30P080FNI)

Screw tightening order



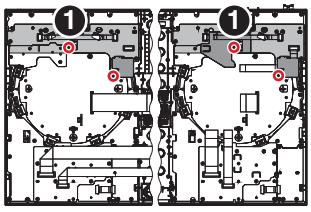


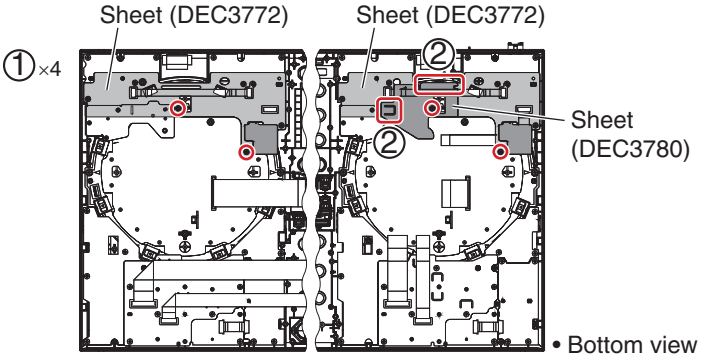
● LOOP and BRWS Assemblies

① Remove the 4 screws.
(BPZ30P080FNI)
② Unhook the 2 hooks and then, remove the Sheet.

Screw tightening order

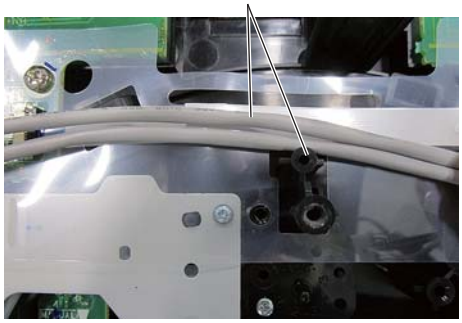
The other screws are random order.



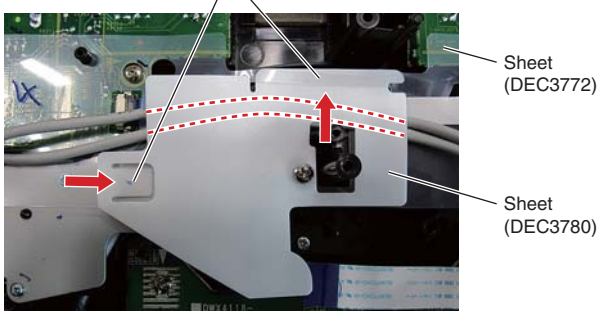


■ Notes on Reassembly

Make sure to arrange the wiring so that it does not ride on the boss.



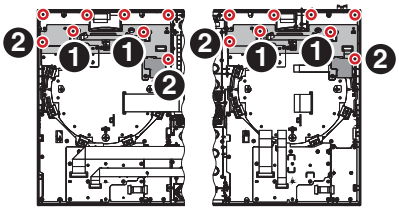
Insert two hooks in Sheet (DEC3780) into the slits of Sheet (DEC3772).

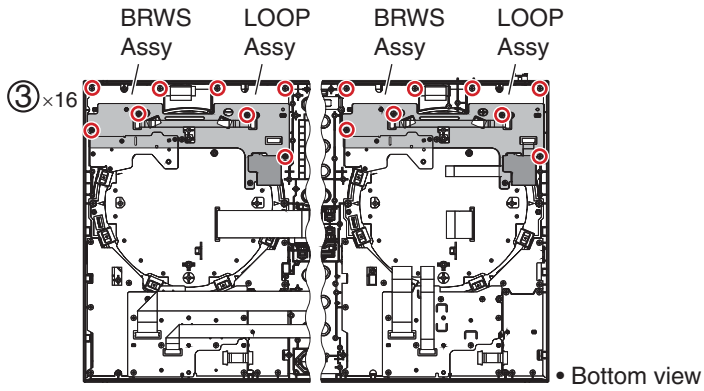


③ Remove the 16 screws and then, remove the 2 Sheets, 2 LOOP Assemblies and 2 BRWS Assemblies.
(BPZ30P080FNI)

Screw tightening order

The other screws are random order.



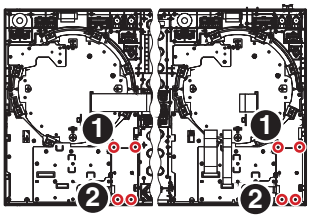


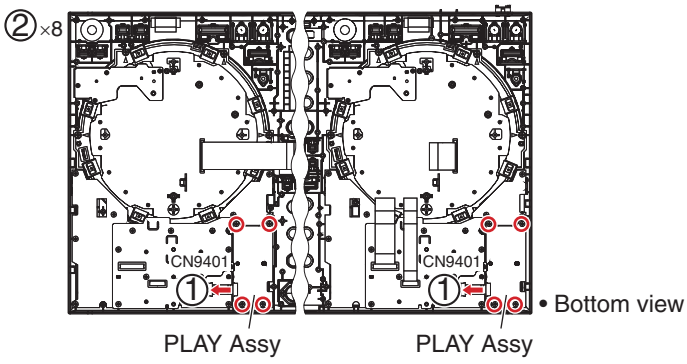
● PLAY Assy

① Disconnect the 2 flexible cables.
(CN9401)
② Remove the 8 screws and then, remove the 2 PLAY Assemblies.
(BPZ30P080FNI)

Screw tightening order

The other screws are random order.



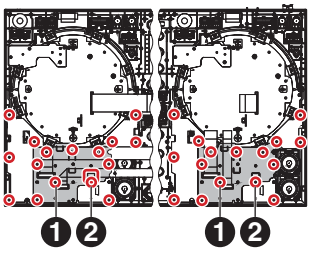


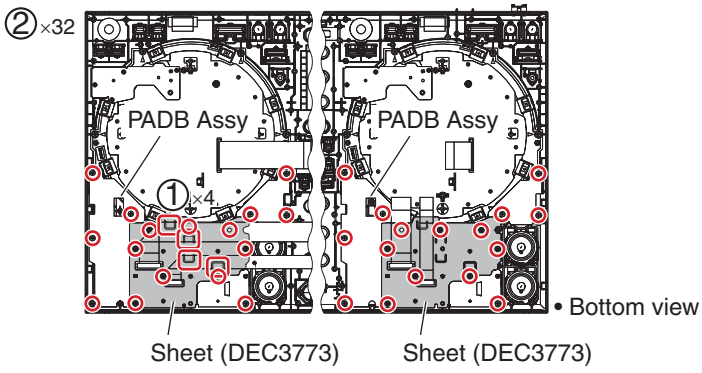
● PADB Assy

① Unhook the 4 hooks.
② Remove the 32 screws and then, remove the 2 Sheets and 2 PADB Assemblies.
(BPZ30P080FNI)

Screw tightening order

The other screws are random order.





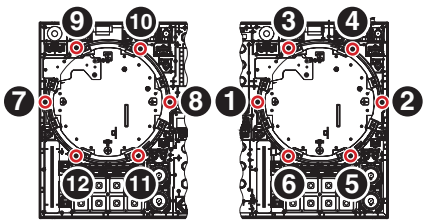
■ Notes on Reassembly

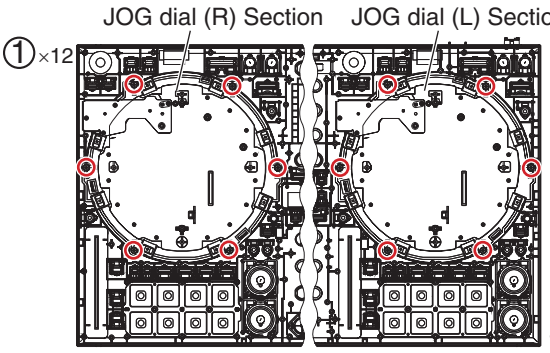
Caution: No screw place
These places will be fastened together with Chassis
(with both Deck)

● JOG Dial Section

① Remove the 12 screws and then, remove the 2 JOG dial Sections.
(BPZ30P080FNI)

Screw tightening order





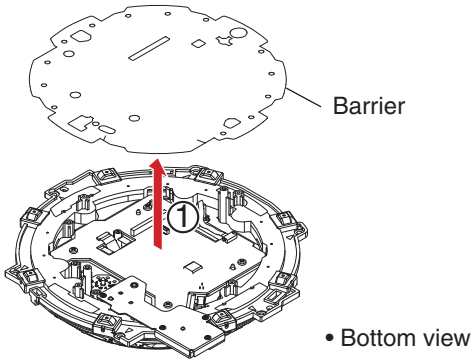
• Bottom view

■ Notes on Reassembly

There are L, R in the JOG dial Section.
Prevent L, R from being incorrect at the time of assembling.

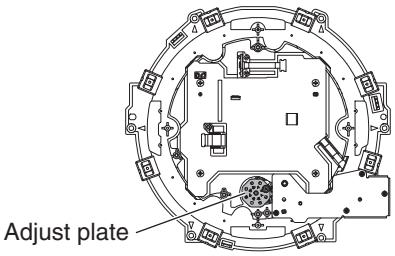
● LCDL and LCDR Assemblies

① Remove the Barrier.

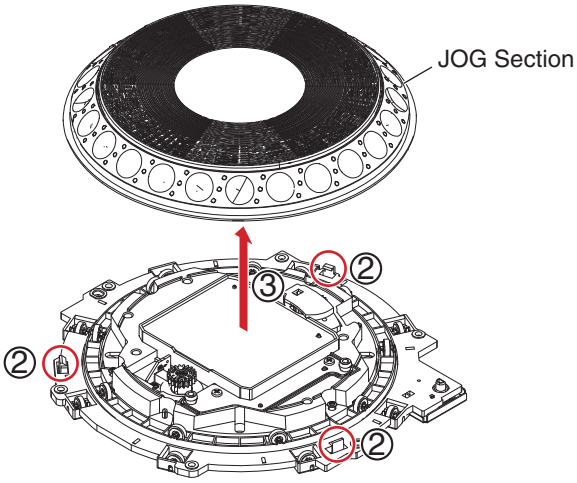


Position of the Adjust plate

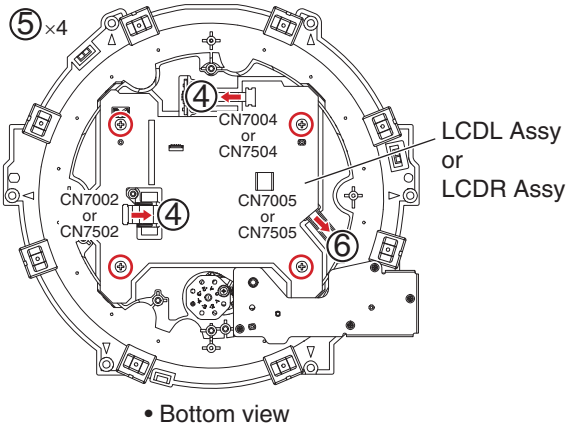
About details of Adjustment etc., refer to the "8.3 ADJUSTMENT METHOD FOR ROTATION LOAD OF THE JOG DIALS".



② Unhook the 3 hooks.
③ Remove the JOG Section.

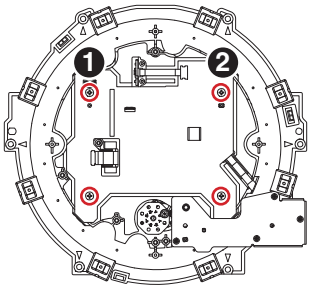


④ Disconnect the 2 flexible cables. (CN7002, 7004, 7502, 7504)
⑤ Remove the 4 screws and then, remove the LCDL/LCDR Assy. (BPZ30P080FNI)
⑥ Disconnect the Sheet SW. (CN7005, 7505)



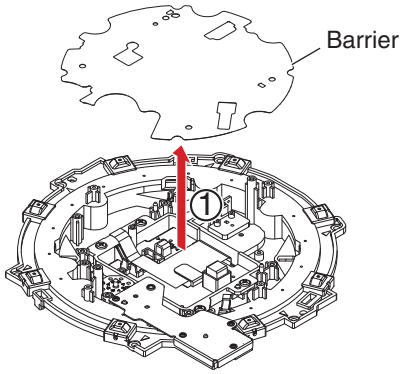
Screw tightening order

The other screws are random order.



● **TFT LCD**

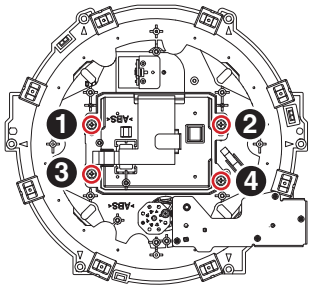
① Remove the Barrier.

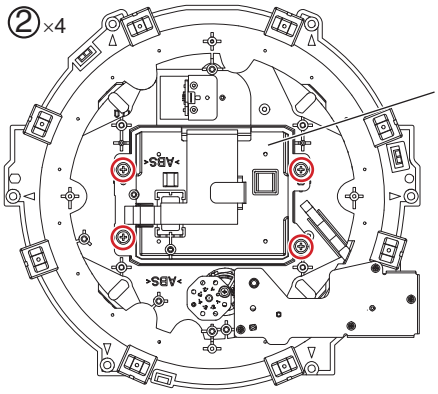


• Bottom view

② Remove the 4 screws and then, remove the LCD Section.
(BPZ30P080FNI)

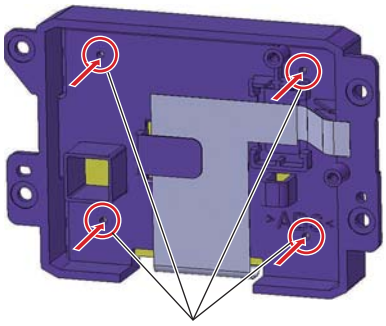
Screw tightening order



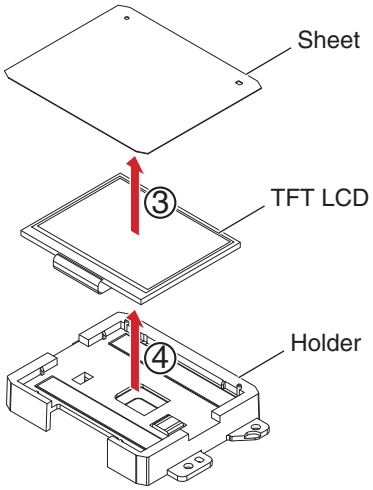


• Bottom view

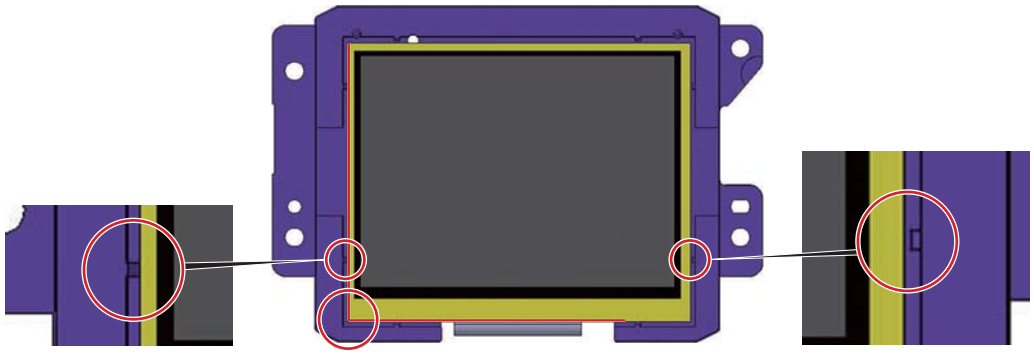
③ Remove the Sheet.
(Cannot be reused)
④ Remove the TFT LCD.



When it removes the TFT LCD, insert a pin about 1.5 mm in diameter from the four holes on the back side, push out and remove it.



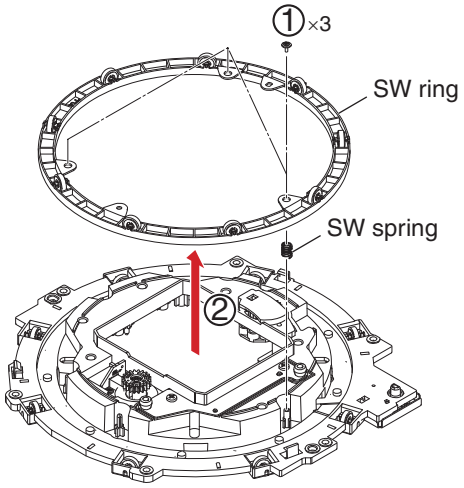
■ Notes for Reassembling TFT LCD



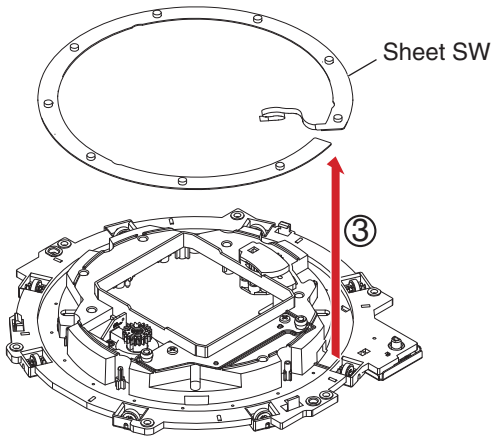
● Sheet SW

① Remove the 3 screws.
(DBA1265)
② Remove the SW ring.

Note:
Be careful not to lost SW spring.

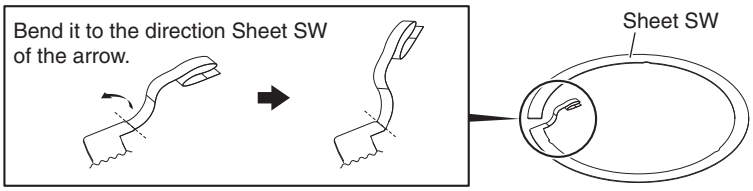


③ Remove the Sheet SW.



■ Notes on replacing the Sheet SW

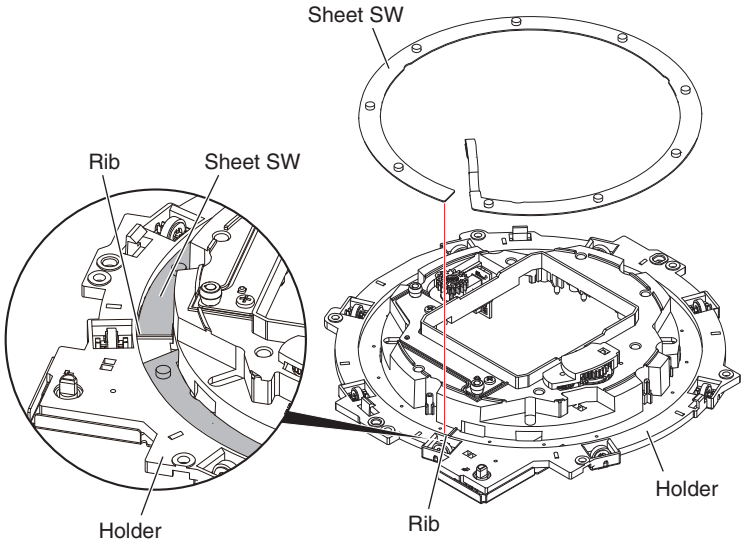
Styling of the Sheet SW



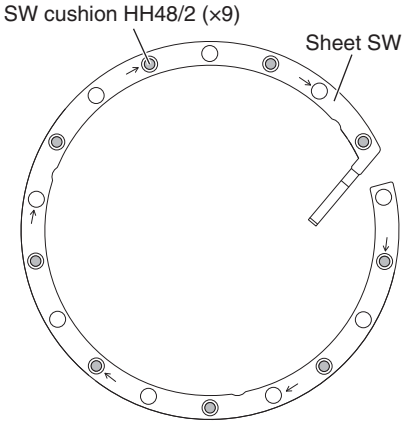
Pasting position of the Sheet SW

Notes:

1. Be careful not to warp the sheet SW.
2. Remove any dirt on the Holder to which the sheet SW is to be adhered. If some adhesive for the old sheet SW remains on the holder, completely remove it with a cloth moistened with alcohol.
3. Do NOT place the sheet SW so that it is mounted on the rib of Holder.
4. When adhering the sheet SW, be careful not to trap air bubbles in it. If air bubbles are formed, remove the sheet SW and adhere a new sheet SW. Do NOT reuse the removed sheet SW.
5. When making a connection, be sure to first release the lock of the connector then securely relock the connector after making the connection.

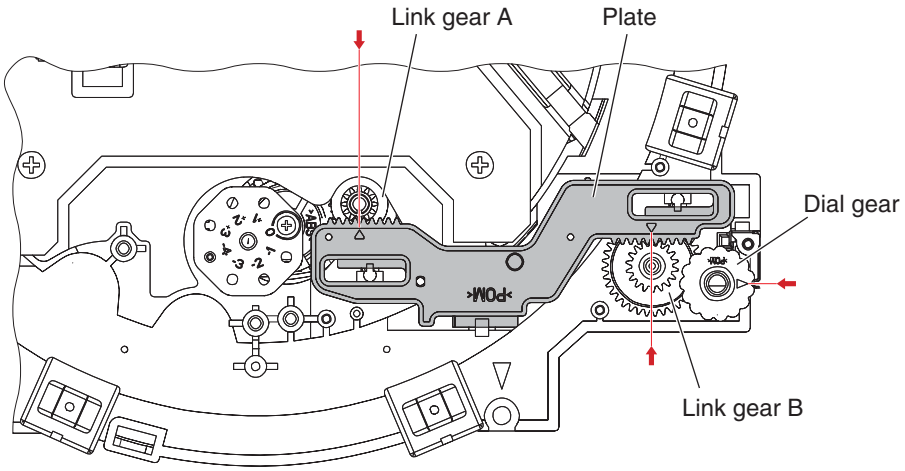


Pasting position of the SW cushion HH48/2

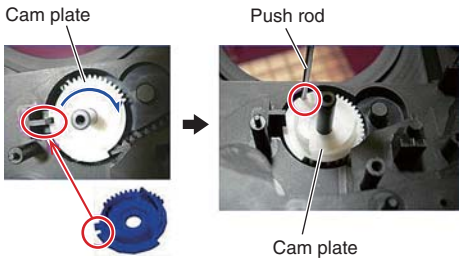


■ Alignment of the Plate

Place the Plate so that its teeth are engaged with those of the gears and its triangular marks are positioned as shown in the figure.



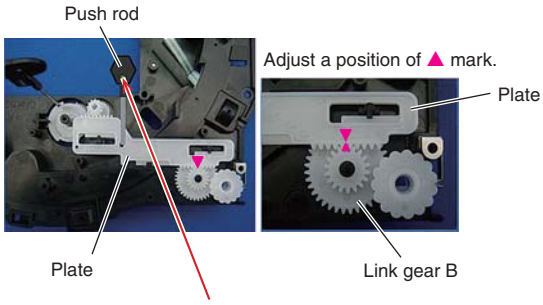
Fix the position using Push rod
at the Cam plate (DNK5301) installation.



Adjust the position of the rib of Holder and slit of Cam plate.

The Cam plate is turned and position is adjusted.
After adjustmentd, the Push rod is inserted in the slit of the Cam plate, and position of the gear is fixed.
Check that the Cam plate does not move.

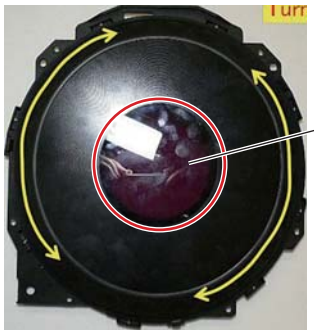
Fix the position using Push rod
after Link gear B assembling.



Insert the Push rod to the hole of the Plate after matching the position of ▲ mark.
Check that the plate does not move.

■ Notes to assemble JOG dial

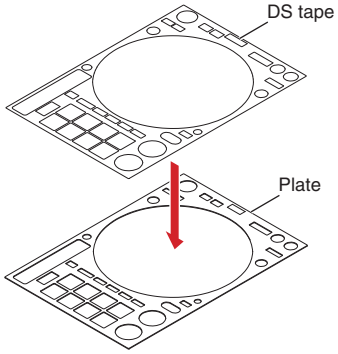
When replacing the parts inside the JOG dial (especially TFT LCD), pay attention to dust intrusion into the inside and contamination of the TFT LCD surface.
Check JOG panel for dust and dirt after assembling JOG dial. If it is dirty, clean it before installing it.

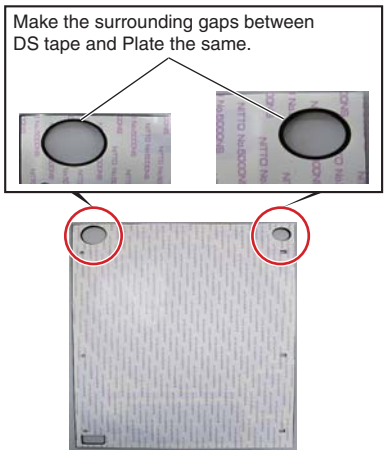


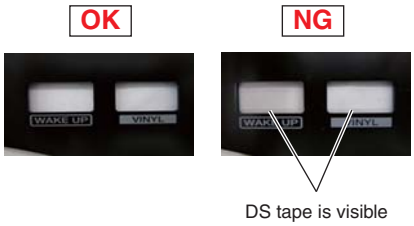
Please check the dirt and dirt on JOG panel while doing Turn check.

■ Notes on Reassembly

● Notes to assemble DS Tape (DEH1095) to Plate (DAH3190, DAH3191)

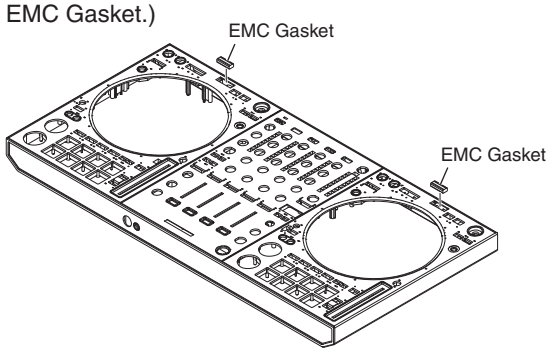




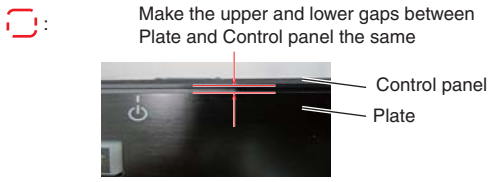


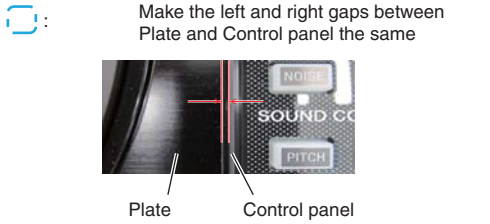
● Notes to assemble Control panel (DNK6746) to Plate (DAH3190, DAH3191)

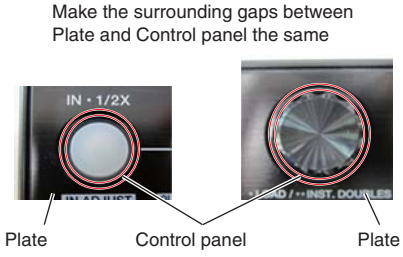
Be sure to put EMC Gasket (DEC3766) in Control panel before pasting Plate to Control panel.
(If it pastes Plate, it cannot attach EMC Gasket.)



Notes to paste Plate







■ Notes on Reassembly

Check JOG panel for dust and dirt after assembling Unit.
If it is dirty, clean it before installing it.

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.

• IC storing firmware and utility settings (PCB Assy) IC2001 (MAIN Assy)	→ • Confirmation of the version of the firmware • Updating to the latest version of the firmware (8.2 UPDATING OF THE FIRMWARE) • Factory reset (Be changed user setting to condition before the repair when be possible) • Crossfader calibration (6.3 CROSSFADER CALIBRATION MODE)
• LCD, LCD sheet and peripheral parts • IC storing calibration value (PCB Assy) IC7002 (LCDL Assy), IC7502 (LCDR Assy)	→ • LCD calibration (6.2 LCD CALIBRATION MODE)
• Cross Fader Service Assy	→ • Crossfader calibration (6.3 CROSSFADER CALIBRATION MODE)
• JOG dial section component part	→ • Confirmation of the specified value by JOG dial Rotation Time measurement mode (8.3 ADJUSTMENT METHOD FOR ROTATION LOAD OF THE JOG DIALS)

8.2 UPDATING OF THE FIRMWARE

A. Checking the current firmware version of DDJ-1000

1. Connect DDJ-1000 to your computer using a USB cable.
2. Launch the Driver Version display Utility or Settings Utility.

   For Mac

   1. In Finder, open the [Applications] folder.
   2. Click [Pioneer] > {DDJ-1000] > [DDJ-1000 Driver Version Display Utility].

   For Windows 10

   In the Windows [Start] menu, click [Pioneer] > [DDJ-1000 Settings Utility].

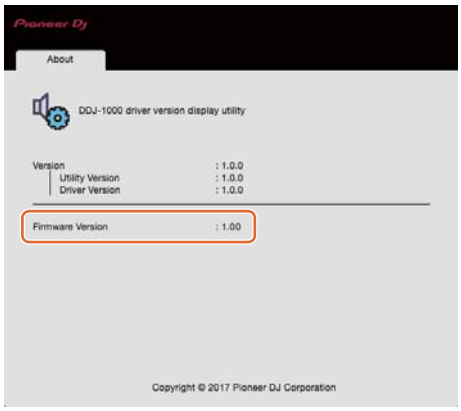
   For Windows 8.1

   In [Apps view], click [Pioneer] > [DDJ-1000 Settings Utility].

   For Windows 7

   In the Windows [Start] menu, click [All Programs] > [Pioneer] -> [DDJ-1000] > [DDJ-1000 Settings Utility].

3. Check the Firmware Version in the Settings Utility
   The firmware version is displayed in the [About] tab. (The figure below is a Mac version)



B. Checking the download file

1. Unzip the download file.

   For Mac

   Save the download file [DDJ-1000_vxxx_Mac.zip] to an arbitrary folder such as desk top and unzip it.
   The [DDJ-1000_vxxx_MAC.dmg] file is generated when the file is unzipped and then double click it to mount.

   For Windows

   Save the download file [DDJ-1000_vxxx_Win.zip] to an arbitrary folder such as desk top and unzip it.

2. Check the unzipped file.

   For Mac

   The [DDJ-1000_vxxx_MAC] folder is generated when the file is extracted.
   [DDJ-1000_vxxx.app]

   For Windows

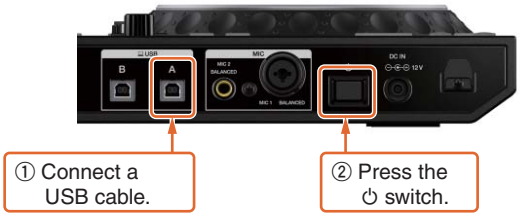
   The [DDJ-1000_vxxx_WIN] folder is generated when the file is unzipped.
   Please ensure the following file is included in the folder.
   [DDJ-1000_vxxx.exe]

   xxx is numerical characters of the new firmware version.
   Depending on your computer settings, the extension such as .exe or .app may not be displayed.

C. Preparing for the update on the DDJ-1000

1. Connect the DDJ-1000 to your computer.
   Connect DDJ-1000 to your computer using a USB cable.
   (Connect the USB cable to the USB-A terminal of the DDJ-1000.)

2. Turn on the power of the DDJ-1000.
   Press the ⏻ switch of the DDJ-1000 rear panel of the DDJ-1000 to turn on the power.



D. Updating the firmware through your computer

1. Updating procedures.
   Before updating, close all the applications running on the computer.

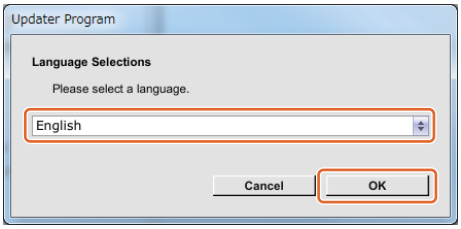
<STEP1> Open the updater program.

For **Mac**
Double click [DDJ-1000_vxxx.app] .

For Windows
Double click [DDJ-1000_vxxx.exe].

<STEP2> Select a language.

Select a language you want to use and click “OK”.

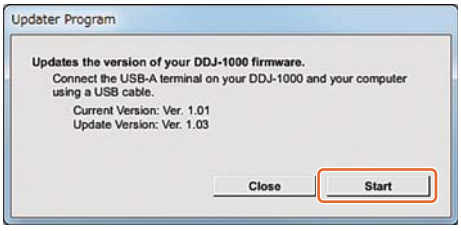


Please refer to “Tips: When [Your DDJ-1000 is not recognized] is shown during updating the firmware” in a later section if the same message is popped up after clicking “OK”.

<STEP3> Check the firmware version.

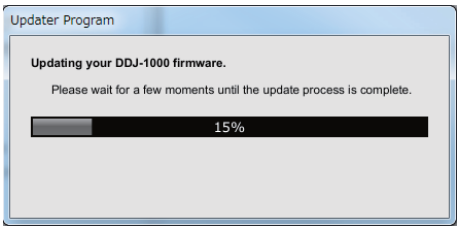
Ensure that the version is x.xx, click “Start”. (The figure below is an example.)
Do not disconnect the power cable and the USB cable during the update.

Please use an **AC adapter** to power your laptop during update.

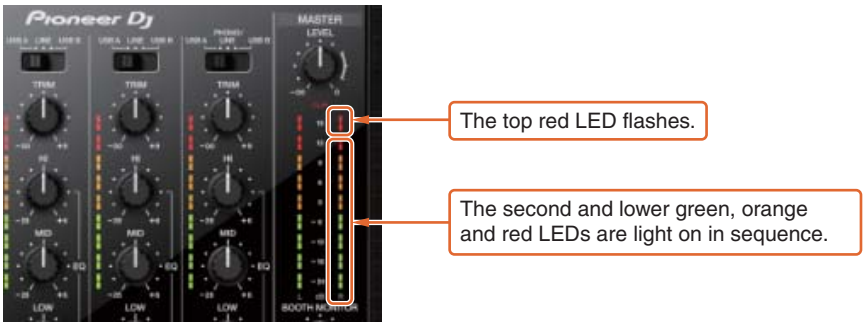


<STEP4> During the update

Please wait until the progress bar reaches to the right end.

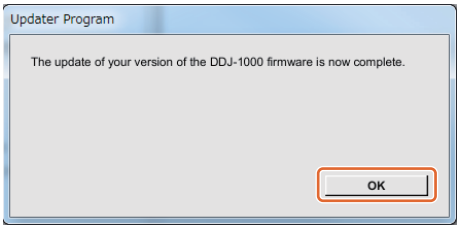


While the update is in progress, the red at the top of the Master level indicator flashes and the second and lower green, orange and red are light on in sequence.



<STEP5> The update process is complete.

When all the LEDs of the Master level indicator on DDJ-1000 are light on, the firmware update is complete.
If the message below is displayed, click “OK”.



<STEP6> Reboot the DDJ-1000

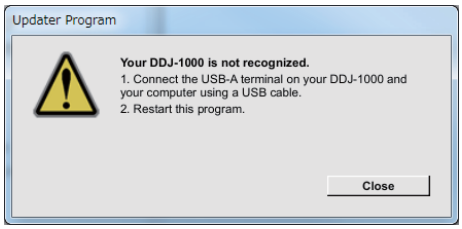
After the update is complete, the DDJ-1000 will automatically reboot.

E. Checking the firmware version

Check the firmware version of the DDJ-1000 as described in [A. Checking the current Firmware Version of DDJ-1000].
When you find the version you wanted, the firmware update is successfully complete.

Tips: When [Your DDJ-1000 is not recognized] is shown during updating the firmware

When the following message appears after selecting a language, check the following tips.



- Is the USB cable connected to a USB-A terminal?
  If it is not connected, connect the cable to a USB-A terminal and start the updating steps from the beginning again.

- When the above message appears even if the cable is connected to the USB-A terminal, please follow the steps below.
  ① Uninstall the driver software of the DDJ-1000.
  How to uninstall the driver software:

  For Mac users:
  Double click the driver software and then double click [DDJ-1000 Uninstaller.app].
  Follow the instructions in your computer after this.

  For Windows
  Click [Start] menu > [Control panel] > [Programs and Features].
  Then right click [DDJ-1000 Driver]. Click [Uninstall] in the context menu.

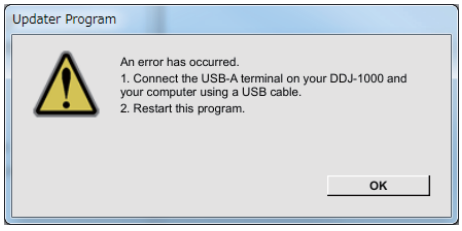
  The latest driver software is available from the following link.
  pioneerdj.com/en/support/

  ② Update the firmware again from the beginning.

  ③ After completing the firmware update, install the driver software again.
  Please see the Operating Instructions to learn how to install the driver software.

Tips: How to cope with abnormal termination:

If you fail to update the firmware and the following message appears, turn off the power of the DDJ-1000 and turn it on again. Then start from the beginning of the above updating procedures.



[Reference information]

This updater has been verified to operate on the operating systems below
Mac : macOS HighSierra 10.13 / macOS Sierra 10.12 / OS X 10.11 / OS X 10.10
Windows : Windows 10 / Windows 8.1 / Windows 7

Approximately 5 minutes is required for update.
The images shown in this Guide may not be the same as the current ones.

8.3 ADJUSTMENT METHOD FOR ROTATION LOAD OF THE JOG DIALS

[Functional overview]
This mode measures JOG load.

[Mode Title Display]
JOG LOAD

[Element]
Check each volume
[BEAT FX ON/OFF] (Light on) : Mode change (to next mode)
[MEMORY] + [BEAT FX ON/OFF] (Light on) : Mode change (to previous mode)

[Initial state]
All LED is light off.

[Verification procedure]

Perform measurement on the JOG Assy alone (before incorporation).
When measuring, change the FFC (30-pin) that connects between the MAIN Assy and the LCDL or LCDR Assay to the extension jig cable (GGD1902).
Otherwise the Adjust plate can not be operated.

Turn JOG dial vigorously and measure the maximum speed and decay time. When the maximum speed becomes 7 times or more speed, measure the decay time and judge whether it is within the specified range or not. Then, the result is displayed on the LED.

The maximum speed: Maximum speed when one rotation is set to 1 x speed when turned in 1.8 seconds
The decay time: The time taken for the rotation to decrease from 3 x speed to 1.5 x speed

Specified value: The decay time is 170 ± 20 msec (ADJUST POSITION is set "CENTER")
The decay time is more than 380 msec (ADJUST POSITION is set "LIGHT")
When time is more than 650 [msec], the confirmation that Encoder spring (DBH1710) is surely attached to is necessary

1. Fit ADJUST POSITION to "CENTER". Move D-CUT upward. (Refer to Fig. 1)
2. Fit Adjust plate to "0". (Refer to Fig. 2)
3. Rotate the JOG you want to measure. The direction of rotation is clockwise.
   Measurement will not start unless JOG is more than 7 times speed. If the speed is insufficient, [MASTER TEMPO] flashes several times.
4. Measurement results are displayed on the LED up to 5 times.
   First time: Lighting up [HOT CUE] to white
   Second time: Lighting up [PAD FX1] to white
   Third time: Lighting up [BEAT JUMP] to white
   Fourth time: Lighting up [SAMPLER] to white
   Fifth time: Lighting up [PAGE ◄]
5. "QUANTIZE" lights up if the measurement result is OK after the fifth measurement is completed. If it is NG, [SLIP] lights up.
   If the rotation is heavy [LOOP IN, LOOP 1/2 X] will light. If it is light [LOOP OUT, LOOP 2X] will light.
   ※ For example
   First: NG [Light], Second: OK, Third: NG [Heavy], Fourth: NG [Heavy], Fifth: OK At the end of the fifth measurement, both IN and OUT are displayed.
   If the result is NG, change the adjustment value of Adjust plate and repeat Step 3 to Step 5 again.
   Remove the screw fixing the Adjust plate, then screw it into the hole corresponding to the value (position: -1, -2, -3, -4, +1, +2, +3). (Refer to Fig. 2)
   ※ The number of times is not displayed after the sixth time, but the measurement is done. Each time we take the average so far and display the result on the LED.
   ※ To reset to the initial state, press [BEAT ►] and [BEAT ◄] at the same time.
6. Reset to the initial state and set ADJUST POSITION to "LIGHT". Turn left to the end.(Refer to Fig. 3)
7. Rotate the JOG you want to measure. The direction of rotation is clockwise.
8. Confirm that the decay time is more than 380 msec. Refer to "Displaying Measurement Results" for how to check.
   If it has not been adjusted within the specified range, change the adjustment value of Adjust plate and repeat Step 3 to Step 8 again. (Refer to Fig. 2)
   When time is more than 650 [msec], confirm whether Encoder spring (DBH1710) is surely attached. (Refer to Fig. 4)
   When Encoder spring is not surely attached, surely attach it again, and repeat Step 3 to Step 8 again.
   (When the part is surely attached, it does not have any problem even if time is more than 650 [msec].)

Fig. 1

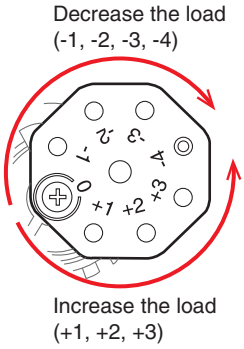
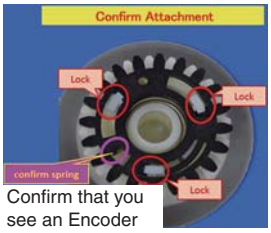


Fig. 2

Fig. 3



Confirm that you see an Encoder spring from this position.

Fig.4

Blinking if it is less than 7 times speed

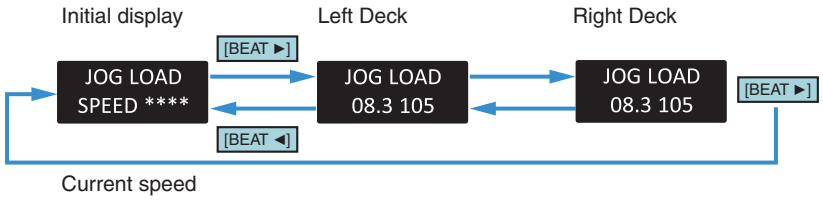
[Displaying Measurement Results]

The following information is displayed on Effect section display.

The maximum speed The decay time: The time taken for the rotation to decrease from 3 x speed to 1.5 x speed (Average value)

[Switch Group]

Switch the display of the result of Right Deck and Left Deck with [BEAT ►] and [BEAT ◄].

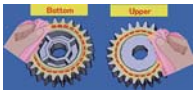


[If the adjustment does not fit within the specified range]

Confirm the state according to the flowchart. The contents of each pattern are shown below.

Pattern A

Wipe the dry surf of Gear/LD (DNK6145) and Washer (DEC3137) with alcohol.



Pattern B

Confirm that Roller on SW ring (DNK5233) rotates smoothly.

Pattern C

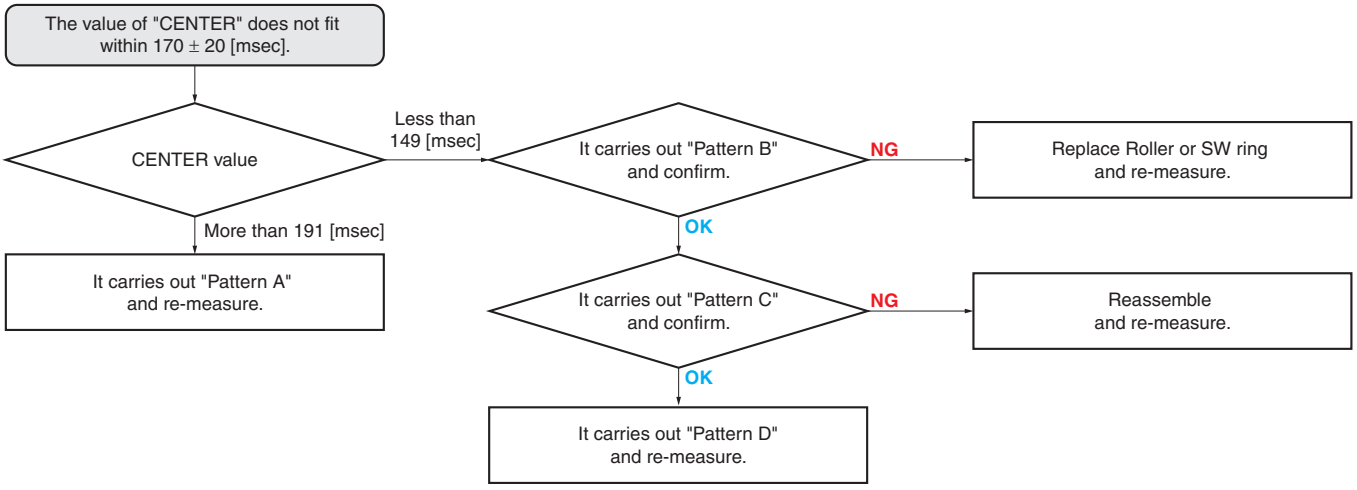
Confirm the positioning boss of the JOGL and JOGR Assy (DWX4133/DWX4119) is in the positioning hole of the Holder (DNK6745).

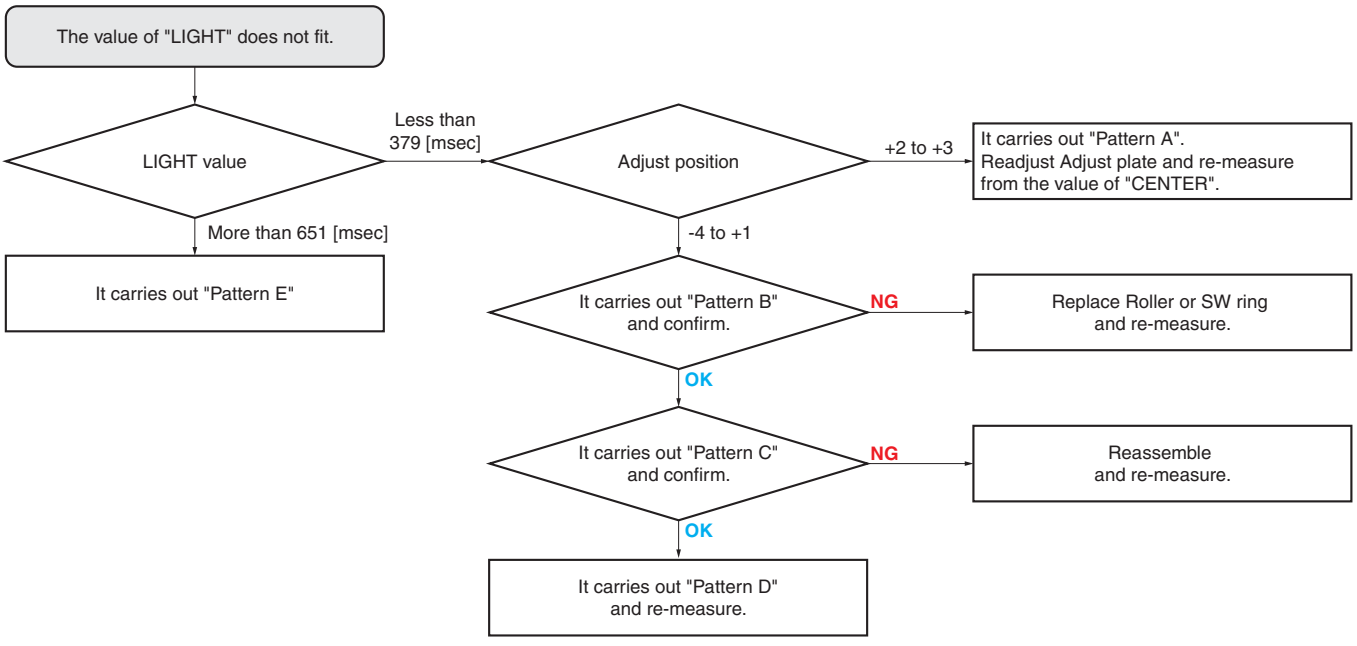
Pattern D

Re-apply the dry surf to Gear/LD (DNK6145).

Pattern E

Confirm that Encoder spring (DBH1710) is installed correctly.





8.4 USER SETABLE ITEMS

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 Which User's Setting is Available	Setting Value (The factory default settings are indicated in red letters.)	Part Name	Content to be Stored
MIDI Controller Settings	AUTO / MIDI controller	IC2001 (MAIN Assy)	[UTILITY] settings
Cross Fader Curve	0 to 32 (1 step increments)		
Cross Fader Cut Lag	0.3 mm to 1.0 mm to 5.5 mm (0.1 mm increments)		
Output setting of the microphone to the booth monitor	ON / OFF		
Microphone Talkover Mode setting	Advanced / Normal		
Microphone Talkover Level setting	–6 dB / –12 dB / –18 dB / –24 dB		
Master Attenuator Level setting	0 dB / –6 dB / –12 dB		
Monaural/Stereo Selection for Master Output	Monaural / Stereo		
Booth Attenuator Level setting	0 dB / –6 dB / –12 dB		
Monaural/Stereo Selection for Booth Output	Monaural / Stereo		
Peak Limiter setting for Master Output	Enable / Disable		
Microphone sound limiter setting added to Master Output	Enable / Disable		
Microphone sound limiter setting added to Booth Output	Enable / Disable		
Demo/Screen saver setting	1 minute / 5 minutes / 10 minutes / Screen saver / Disenable		
Auto Standby setting	Enable / Disable		
Jog > Brightness of the display setting	1 / 2 / 3 / 4 / 5		
Mixer > Brightness of the display setting	1 / 2 / 3		

Sheet for confirmation of the user setting

MIDI Controller Settings		Cross Fader Curve	Cross Fader Cut Lag
AUTO	MIDIMIDI controller	0 to 32	0.3 mm to 1.0 mm to 5.5 mm
			mm

Output setting of the microphone to the booth monitor		Microphone Talkover Mode setting		Microphone Talkover Level setting			
ON	OFF	Advanced	Normal	–6 dB	–12 dB	–18 dB	–24 dB

Master Attenuator Level setting			Monaural/Stereo Selection for Master Output		Booth Attenuator Level setting		
0 dB	–6 dB	–12 dB	Monaural	Stereo	0 dB	–6 dB	–12 dB

Monaural/Stereo Selection for Booth Output		Peak Limiter setting for Master Output	
Monaural	Stereo	Enable	Disable

Microphone sound limiter setting added to Master Output		Microphone sound limiter setting added to Booth Output	
Enable	Disable	Enable	Disable

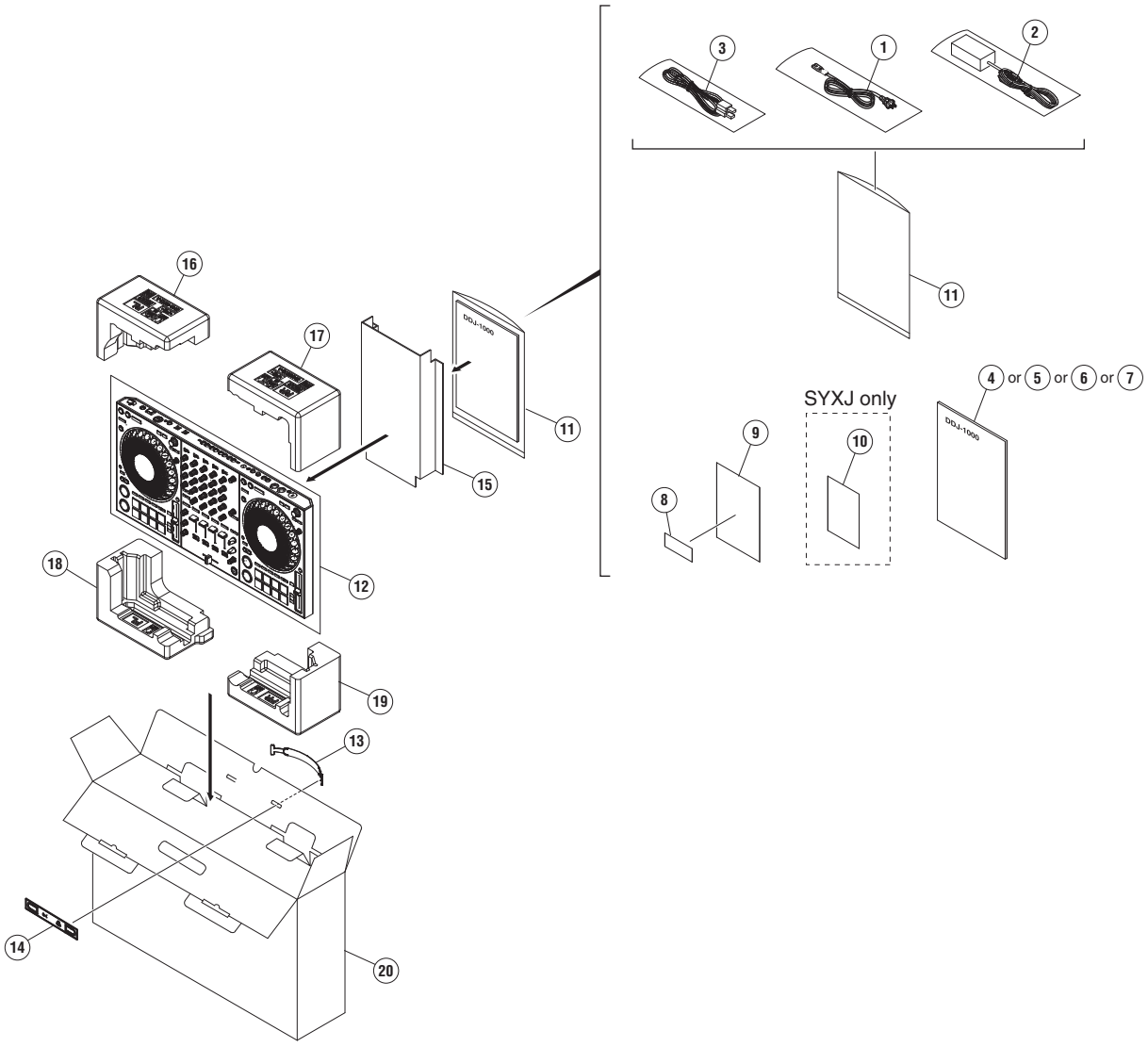
Demo/Screen saver setting				
1 minute	5 minutes	10 minutes	Screen saver	Disable

Auto Standby setting		Jog > Brightness of the display setting					Mixer > Brightness of the display setting		
Enable	Disable	1	2	3	4	5	1	2	3

9. EXPLODED VIEWS AND PARTS LIST

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

9.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

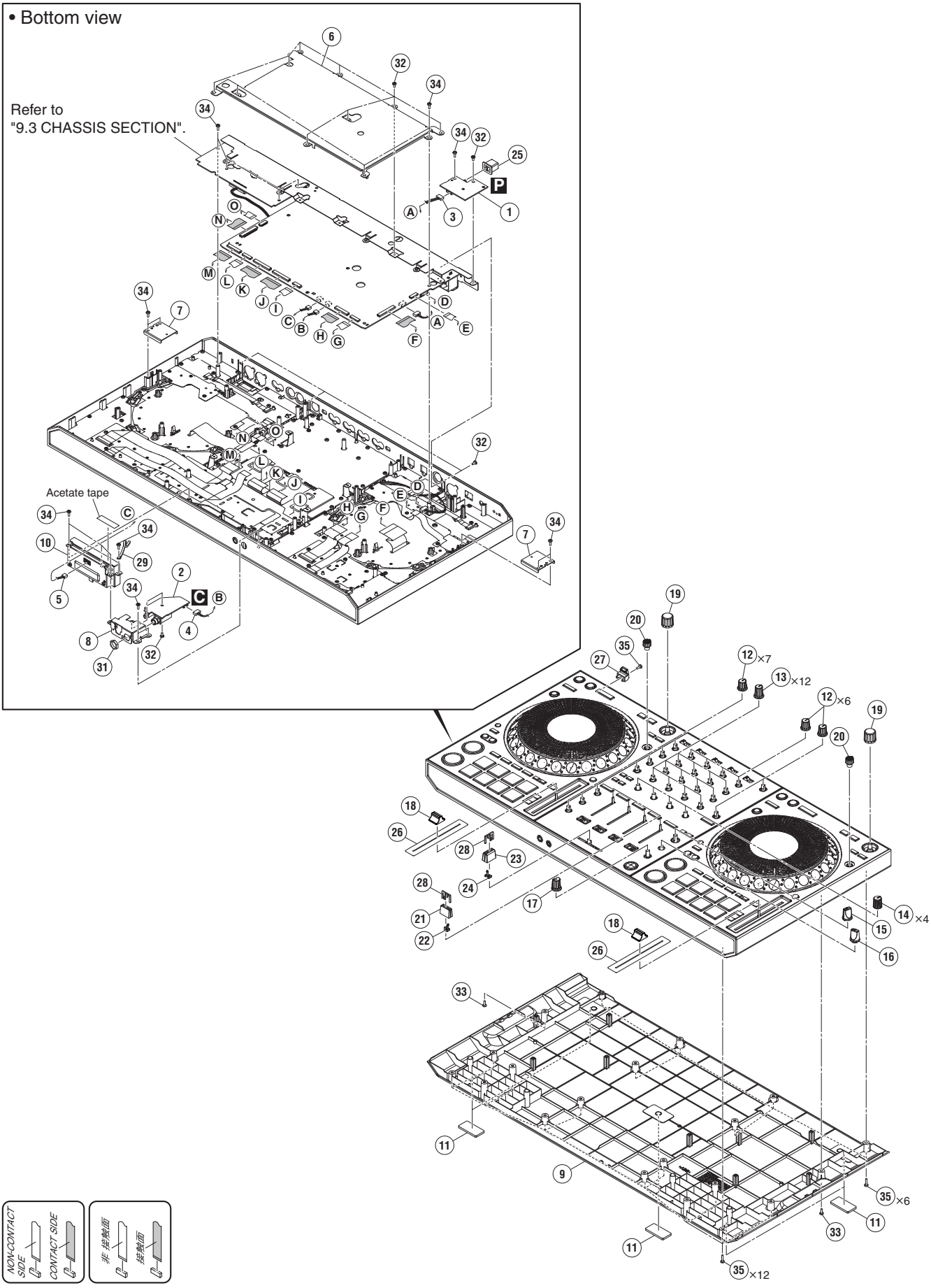
Mark	No.	Description	Part No.
⚠	1	Power Cord	See Contrast table (2)
⚠	2	AC Adapter	DWR1574
	3	USB Cable	DDE1128
	4	Operating Instructions (Quick Start Guide)	See Contrast table (2)
	5	Operating Instructions (Quick Start Guide)	See Contrast table (2)
	6	Operating Instructions (Quick Start Guide)	See Contrast table (2)
	7	Operating Instructions (Quick Start Guide)	See Contrast table (2)
NSP	8	rekordbox dj license key label	DXA2304
NSP	9	Leaflet	DRM1410
NSP	10	Warranty	See Contrast table (2)
NSP	11	Polyethylene Bag	AHG7117
	12	Mirror Mat (1200*1000)	DHL1169
	13	Handle	DEC3783
	14	Spacer	DEC3784
	15	Partition	DHC1101
	16	Packing Pad	DHA1972
	17	Packing Pad	DHA1973
	18	Packing Pad	DHA1974
	19	Packing Pad	DHA1975
	20	Packing Case	See Contrast table (2)

(2) CONTRAST TABLE

DDJ-1000/FWLPWXJ, SYXJ, UXJCB and XJCN are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-1000 /FWLPWXJ	DDJ-1000 /SYXJ	DDJ-1000 /UXJCB	DDJ-1000 /XJCN
⚠	1	Power Cord	ADG1154	ADG1154	XDG3052	ADG7079
	4	Operating Instructions (Quick Start Guide)(En, Es)	DRH1471	Not used	Not used	Not used
	5	Operating Instructions (Quick Start Guide) (En, Fr, De, It, Nl, Es, Pt, Ru)	Not used	DRH1469	Not used	Not used
	6	Operating Instructions (Quick Start Guide)(En, Fr)	Not used	Not used	DRH1468	Not used
	7	Operating Instructions (Quick Start Guide)(Zhcn)	Not used	Not used	Not used	DRH1470
NSP	10	Warranty	Not used	DRY1270	Not used	Not used
	20	Packing Case	DHG3619	DHG3584	DHG3618	DHG3621

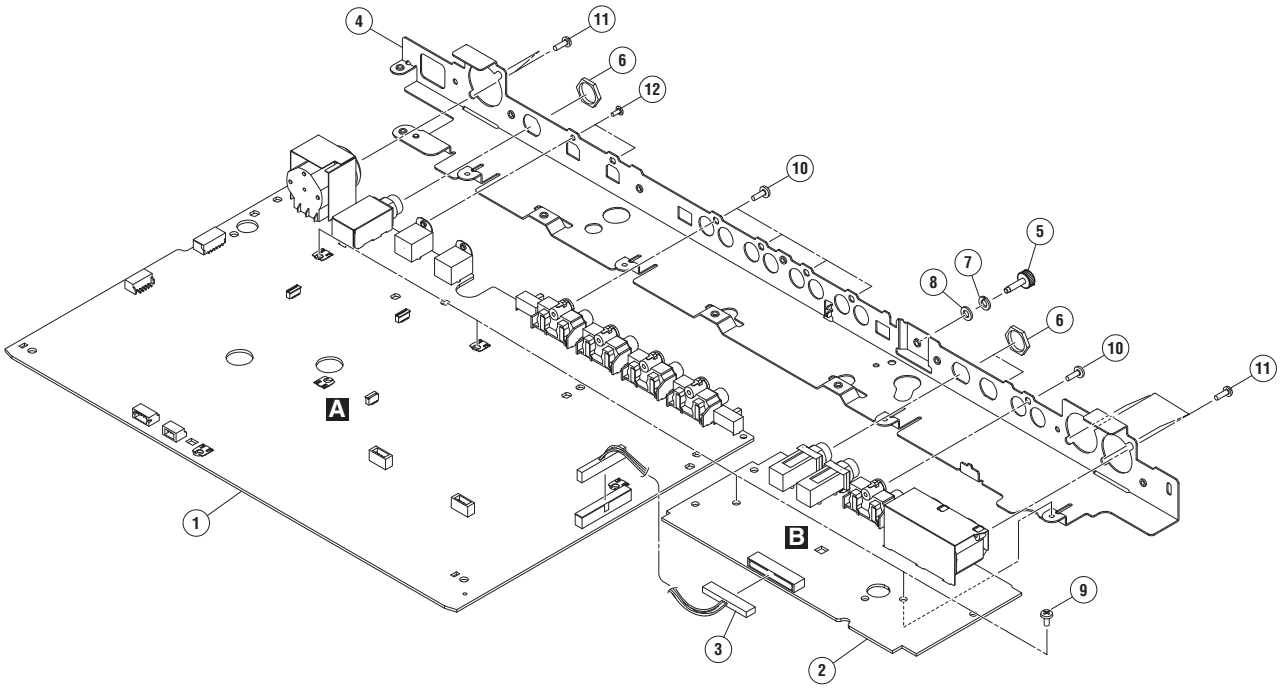
9.2 BOTTOM SECTION



(1) BOTTOM SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	PSWB Assy	DWX4114
	2	HPJK Assy	DWX4116
	3	Connector Assy (05P)	PF05PP-D12
	4	Connector Assy	PF04PP-D10
	5	Connector Assy	PF03PP-B22
	6	Shield Plate	DNH3342
	7	Stay	DNH3351
	8	Stay	DNH3348
⚠	9	Chassis	DNK6747
	10	Cross Fader Service Assy	DEA1088
	11	Sheet/LEG	DEC3534
	12	Knob	DAA1360
	13	Knob	DAA1361
	14	Knob	DAA1386
	15	Select Knob	DAA1205
	16	FX SEL Knob	DAA1213
	17	Knob	DAA1368
	18	Knob/SLD	DNK5981
	19	Dial Knob	DAA1246
	20	Adjust Knob Black	DAC2528
	21	Slider Knob 1	DAC2684
	22	Stopper/SLD	DNK6009
	23	Knob	DAC3238
	24	Stopper	DNK6440
	25	Power Knob	DAC2306
	26	Slide Sheet 1C	DAH2404
	27	Cord Hook	DNK6755
	28	Slider Knob 2	DAC2685
	29	Cord Clamper (Steel)	RNH-184
	30	•••••	
	31	Nut M12	DBN1018
	32	Screw	BBZ30P060FTB
	33	Screw	BBZ30P080FTB
	34	Screw	BPZ30P080FNI
	35	Screw	BPZ30P120FTB

9.3 CHASSIS SECTION

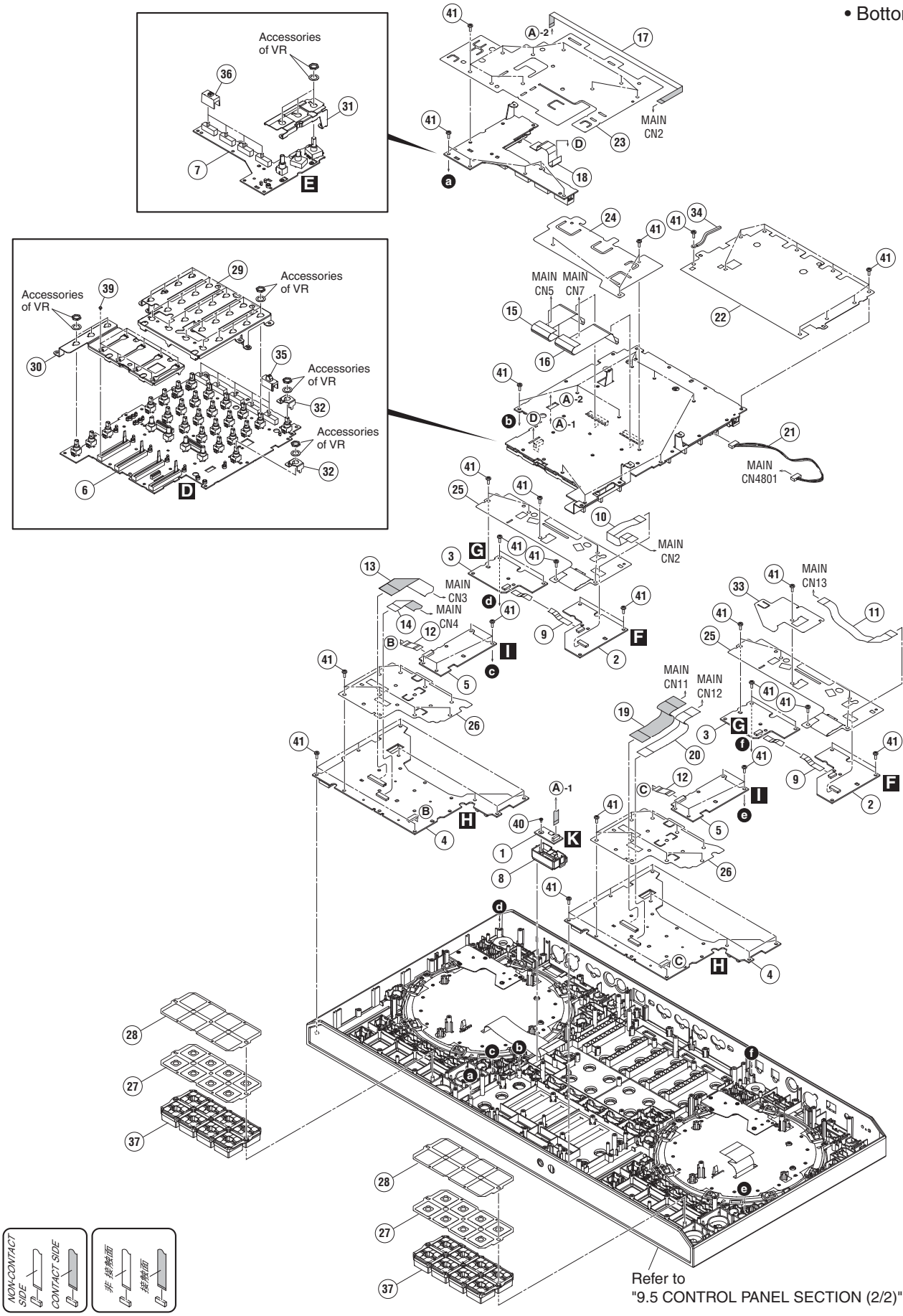


CHASSIS and CROSSFADER SECTION PARTS LIST

Mark No.	Description	Part No.
1	MAIN Assy	DWX4104
2	MOUT Assy	DWX4115
3	Crimp Connector	PF16PP-D15
4	Stay	DNH3341
5	Earth Terminal	DKE1015
6	Nut	NKX2FTC
7	Spring Lock Washer	WS40FNI
8	Washer	WA32F100Q050
9	Screw	BBZ30P060FTB
10	Screw	BPZ30P080FTB
11	Screw	PPZ30P080FTB
12	Screw (M3*5)	DBA1340

9.4 CONTROL PANEL SECTION (1/2)

• Bottom view

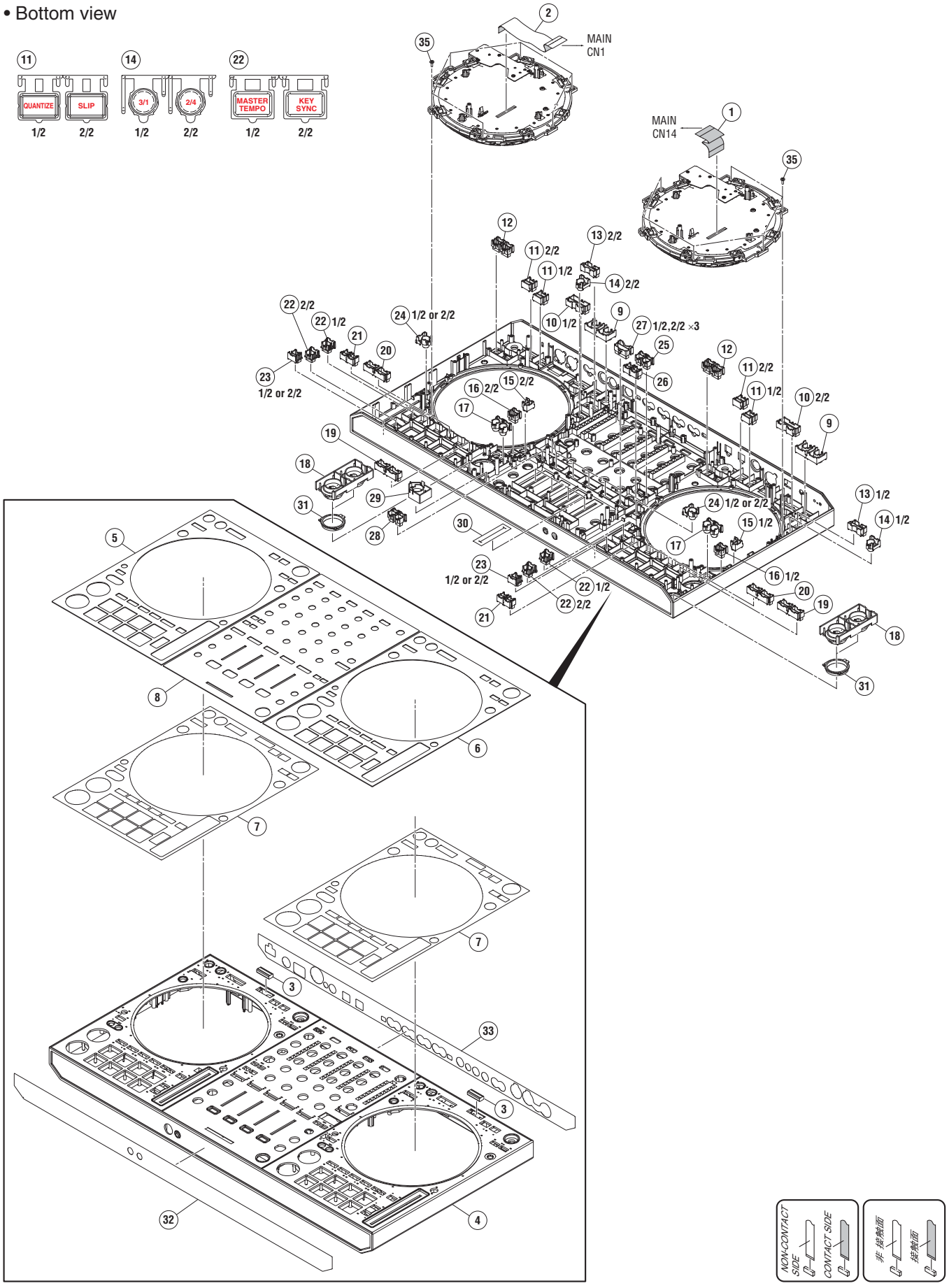


CONTROL PANEL SECTION (1/2) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	OLED Assy	DWX4106
	2	LOOP Assy	DWX4108
	3	BRWS Assy	DWX4109
	4	PADB Assy	DWX4110
	5	PLAY Assy	DWX4111
	6	MIXER Assy	DWX4112
	7	BFXB Assy	DWX4117
	8	OLED Assy (Service)	DEA1084
	9	FFC	DDD1831
	10	FFC	DDD1832
	11	FFC	DDD1833
	12	FFC	DDD1834
	13	FFC	DDD1835
	14	FFC	DDD1836
	15	FFC	DDD1839
	16	FFC	DDD1840
	17	FFC	DDD1841
	18	FFC	DDD1842
	19	FFC	DDD1844
	20	FFC	DDD1845
	21	Shielded Conn-Cable	DDA1082
	22	I-Shield Sheet	DEC3765
	23	Sheet	DEC3770
	24	Sheet	DEC3771
	25	Sheet	DEC3772
	26	Sheet	DEC3773
	27	Sheet	DEC3774
	28	Spacer	DEC3775
	29	Stay	DNH3343
	30	Stay	DNH3346
	31	Stay	DNH3347
	32	Stay	DNF2039
⚠	33	Sheet	DEC3780
	34	Cord Clamper (Steel)	RNH-184
	35	SW Cap	DAC2753
	36	Slide SW Cap (W)	DAC2401
	37	Button	DEB2059
	38	•••••	
	39	Screw	PMH20P040FTC
	40	Screw	BPZ20P040FTB
	41	Screw	BPZ30P080FNI

9.5 CONTROL PANEL SECTION (2/2)

• Bottom view



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

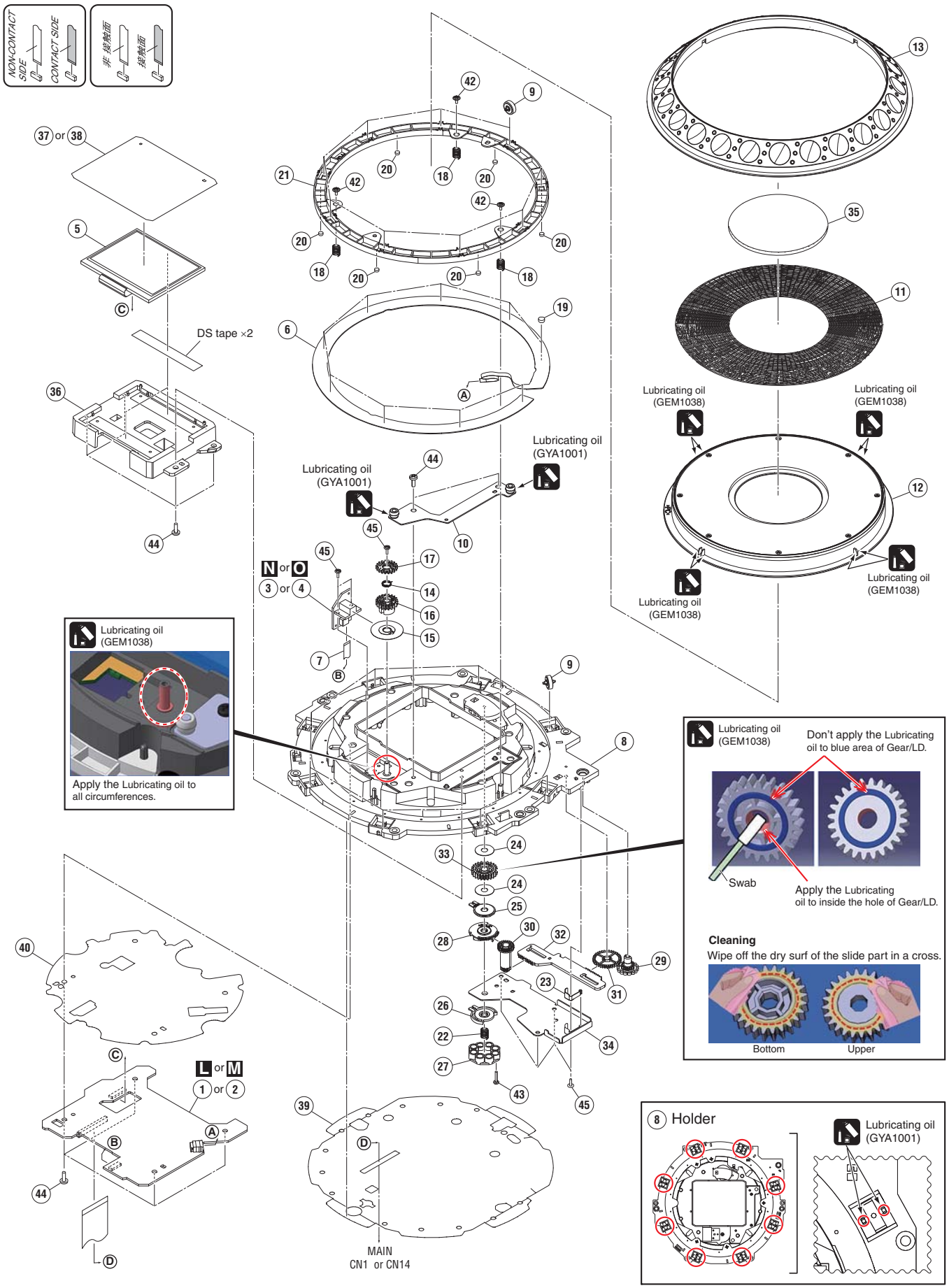
Mark	No.	Description	Part No.
	1	FFC	DDD1837
	2	FFC	DDD1838
	3	EMC Gasket	DEC3766
⚠	4	Control Panel	DNK6746
	5	Plate	DAH3190
	6	Plate	DAH3191
	7	DS Tape	DEH1095
	8	Plate	DAH3186
	9	Button/LOP	DAC3074
	10	Button	DAC3356
	11	Button	DAC3357
	12	Button	DAC3358
	13	Button	DAC3359
	14	Button	DAC3360
	15	Button	DAC3361
	16	Button	DAC3362
	17	Button	DAC3363
	18	Button	DXB2189
	19	Button	DAC3364
	20	Button	DAC3365
	21	Button	DAC3366
	22	Button	DAC3367
	23	Button	DAC3368
	24	Button	DAC3369
	25	Button	DAC3370
	26	Button	DAC3371
	27	Button	DAC3219
	28	Button	DAC3372
	29	Button	DAC3141
	30	Fader Packing	DEC3355
	31	Ring Lens (PLAY)	DNK5315
	32	Sheet	DEC3763
	33	Sheet	See Contrast table (2)
	34	•••••	
	35	Screw	BPZ30P080FNI

(2) CONTRAST TABLE

DDJ-1000/FWLPWXJ, SYXJ, UXJCB and XJCN are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-1000 /FWLPWXJ	DDJ-1000 /SYXJ	DDJ-1000 /UXJCB	DDJ-1000 /XJCN
	33	Sheet	DEC3800	DEC3800	DEC3800	DEC3801

9.6 JOG DIAL SECTION



JOG DIAL SECTION PARTS LIST

Mark No.	Description	Part No.
1	LCDL Assy	DWX4105
2	LCDR Assy	DWX4118
3	JOGL Assy	DWX4113
4	JOGR Assy	DWX4119
5	TFT LCD	DWX4141
6	Sheet SW	DSX1078
7	FFC	DDD1843
8	Holder	DNK6745
9	Roller	DXB2178
10	Stay Assy/JOG	DXB2133
11	JOG Plate	DAH2679
12	JOG Dial A Assy	DXA2159
13	JOG B	DNK4068
14	Encoder Spring	DBH1710
15	Plate	DEC3700
16	Gear/A	DNK6143
17	Gear/B	DNK6144
18	SW Spring	DBH1681
19	SW Cushion HH48/2	DEC2538
20	Cushion/RNG	DEC3466
21	SW Ring	DNK5233
22	Coil Spring/LD	DBH1798
23	Leaf Spring/ADJ	DBK1376
24	Washer	DEC3137
25	Smoother	DNK5237
26	Comp Plate	DNK5243
27	Adjust Plate	DNK5300
28	Cam Plate	DNK5301
29	Dial Gear	DNK5302
30	Link Gear A	DNK5303
31	Link Gear B	DNK5304
32	Plate	DNK6748
33	Gear/LD	DNK6145
34	Plate	DNH3345
35	Window	DAH3189
36	Holder	DNK6749
37	Sheet	DEC3768
38	Sheet	DEC3779
39	Barrier	DEC3798
40	Barrier	DEC3799
41	•••••	
42	Screw (FE)	DBA1265
43	Screw	BPZ20P100FTC
44	Screw	BPZ30P080FNI
45	Screw	IPZ20P060FTC