Pioneer DJ

Service Manual

All-In-One DJ System

XDJ-XZ

XDJ-XZ

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

Model	Type	Power Requirement	Remarks
XDJ-XZ	AXJ	AC 220 V	
XDJ-XZ	LWSYXJ	AC 110 V to 240 V	
XDJ-XZ	UXJCB	AC 120 V	

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

Model	Order No.	Remarks
XDJ-XZ	RRV4699	SCHEMATIC DIAGRAM, PCB CONNECTION DIAGRAM, PCB PARTS LIST

K-ZZZ OCT. 2019

SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

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

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	BD9328EFJ	IC301	DC-DC CONVERTER (System power supply)	IC with heat-pad
	BD00IC0WEFJ	IC302	REGULATOR IC (System power supply)	IC with heat-pad
	IS31BL3555-ZLS4	IC303	DRIVER IC (BROWSE-LCD backlight power supply)	IC with heat-pad
	BD9328EFJ	IC501	DC-DC CONVERTER (System power supply)	IC with heat-pad
	MMPF0100F0AEP	IC502	PO SUPPLY IC (Power management IC)	QFN IC with heat-pad
	MCIMX6Q6AVT10AD	IC701	U-PRO IC (Application processor)	BGA
	K4B4G1646E-BYMA	IC901, IC902	RAM IC (DDR3)	BGA
	H337S3959	IC1101	Authentication Coprocessor (MFi authentication)	USON package (UltraSmallOutlineNon-lead)
	BD9328EFJ	IC1801, IC1802	DC-DC CONVERTER (USB-A power supply)	IC with heat-pad
	TPS2557DRB	IC1803, IC1804	High-side SW IC (USB-A current control)	IC with heat-pad
	TUSB4020BIPHP	IC1805	INTERFACE IC (USB-A HUB)	IC with heat-pad
	RTL8152B-VB-CG	IC2001	INTERFACE IC (USB-LAN conversion)	QFN IC with heat-pad
	TUSB4041IPAP	IC2002	INTERFACE IC (USB-B HUB)	IC with heat-pad
	RTL8309M-CG	IC2151	INTERFACE IC (LAN HUB)	QFN IC with heat-pad
	D810K013DZKB400	IC2501	DSP	BGA
JLCD1 Assy	BD00IC0WEFJ	IC3001	REGULATOR IC (JOG-LCD UCOM power supply)	IC with heat-pad
JLCD2 Assy	BD00IC0WEFJ	IC3201	REGULATOR IC (JOG-LCD UCOM power supply)	IC with heat-pad
XPAD Assy	ATSAMD20E15A-MU	IC3401	Microcontroller (X-PAD control)	QFN IC with heat-pad
LCDB Assy	R1290K103A	IC3605	DC-DC CONVERTER (BROWSE-LCD power supply)	QFN IC with heat-pad
	AK4187VN	IC3606	INTERFACE IC (TOUCH PANEL control)	QFN IC with heat-pad
AUDIO Assy	AK4458VN	IC5802	Multi DAC IC (MASTER/BOOTH/SEND output)	QFN IC with heat-pad
	2SCR573D3	Q6413, Q6415	TRANSISTOR (HP output)	Tr with heat-pad
	2SAR573D3	Q6414, Q6416	TRANSISTOR (HP output)	Tr with heat-pad
	BD9328EFJ	IC6602, IC6603	DC-DC CONVERTER (LED power supply)	IC with heat-pad
	BD9851EFV	IC6605, IC6606	DC-DC CONVERTER (AUDIO power supply)	IC with heat-pad
	NJM78M09DL1A	IC6607	REGULATOR IC (AUDIO power supply)	IC with heat-pad
	NJM7805DL1A	IC6609, IC6610	REGULATOR IC (AUDIO power supply)	IC with heat-pad
	NJM78M15DL1A	IC6611	REGULATOR IC (AUDIO power supply)	IC with heat-pad
	NJM79M15DL1A	IC6612	REGULATOR IC (AUDIO power supply)	IC with heat-pad

1.3 SERVICE NOTICE

■ About the ICs in the MAIN Assy

Replacement of the Flash ROM (IC1102) and USB-LAN Conversion (IC2001) in the MAIN Assy are not possible during service, because writing of the MAC address on the production line is required.
Therefore, the Flash ROM (IC1102) and USB-LAN Conversion (IC2001) are not supplied as a service part.
If the IC is defective, replace the whole MAIN Assy.

After replacing the the MAIN Assy, writing of the serial number of the unit is required.
For details on how to write the serial number, see "8.5 WRITING THE SERIAL NUMBER OF THE UNIT."

■ Voltage monitoring

This unit always monitors for power failure and will shut itself off immediately after an error is detected.
If a power is defect, MASTER REC (WAKE UP) LED on the right Deck is flashing in a cycle of 250 ms (light on 125 ms and light off 125 ms).
Other LEDs light off, and SW and VR become not working.
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 "8.6 USER SETABLE ITEMS" to which you can transcribe the settings, as required.
The settings are stored in FLASH ROM (IC1102) 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 (DWX4228)).
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.

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

• Place the 13 points (■) of the control panel under the block (Height more than 40 mm and Diameter arround φ20 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.

■ SW POWER SUPPLY Primary side electrical shock

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

Electrical shock area of A-side.
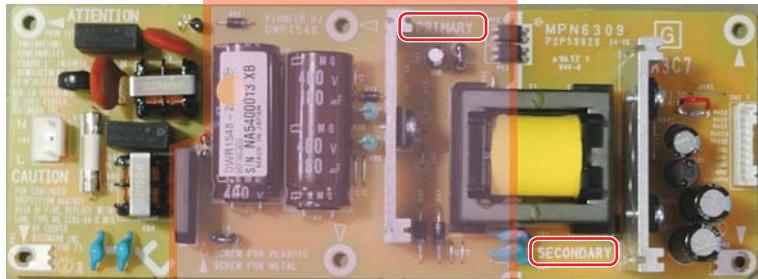
Electrical shock area of B-side.
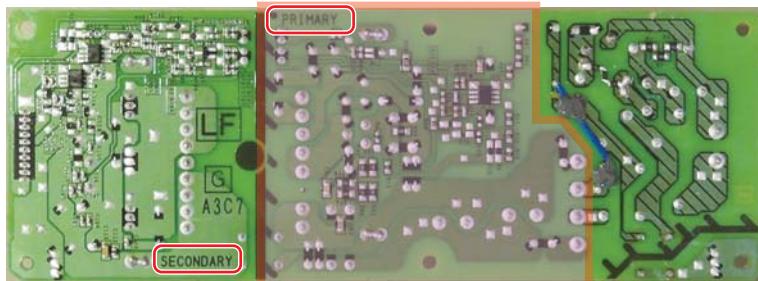
When discharging the above point, use the following discharge jig as needed.

While the charging voltage is left of both C4 and C5, either of checking LEDs turns on.
And if both of LED turns off, we can avoid receiving the electrical shock!!
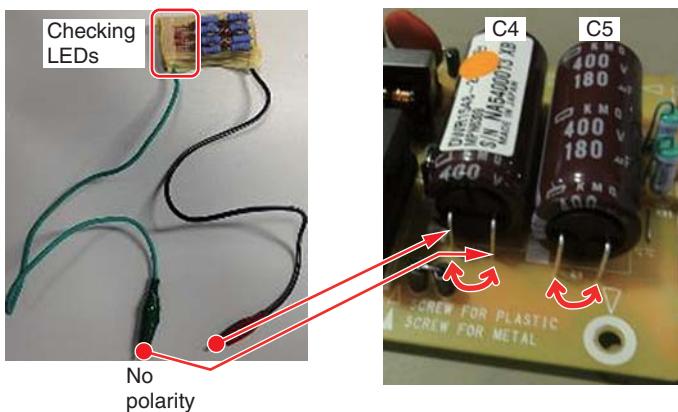
The circuit of "discharge JIG" is shown below.
- Resister is all 10 kΩ (3W)
- Both of LED is LTL17KRH5D
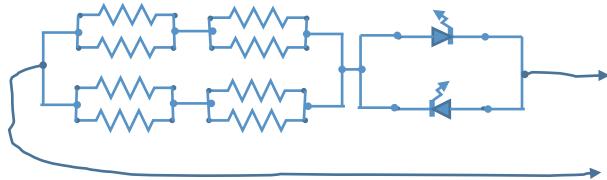
When there is no above type LED, take measures the following method.
  Step 1: After the power is turned off, wait 2 minutes.
  Step 2: Connect the Register Jig and leave the unit as it is, for 10 seconds.

2. SPECIFICATIONS

Power requirements .... AC 110 V to 240 V, 50 Hz/60 Hz
Power consumption ....55 W
Power consumption (standby) ....0.3 W
Main unit weight .... 13.0 kg (28.7 lb)
Max. dimensions
..........................878.0 mm (W) × 466.1 mm (D) × 118.4 mm (H)
(34.6 in. (W) × 18.4 in. (D) × 4.7 in. (H))
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
A/D converter 24-bit
D/A converter
 MASTER, BOOTH, SEND 32-bit
 PHONES 24-bit
Frequency characteristic
 USB, LINE, AUX (LINE/PORTABLE), MIC .... 20 Hz to 20 kHz
S/N ratio (rated output, A-WEIGHTED)
 USB .... 114 dB
 LINE .... 103 dB
 PHONO .... 90 dB
 AUX (LINE) .... 96 dB
 AUX (PORTABLE) .... 90 dB
 MIC .... 81 dB
Total harmonic distortion (20 Hz to 20 kHzBW)
 USB ....0.003 %
 LINE ....0.005 %
 PHONO ....0.017 %
Standard input level / Input impedance
 LINE .... −12 dBu/47 kΩ
 PHONO .... −52 dBu/47 kΩ
 AUX (LINE) .... −12 dBu/47 kΩ
 AUX (PORTABLE) .... −24 dBu/47 kΩ
 MIC .... −57 dBu/3 kΩ
Standard output level / Load impedance / Output impedance
 MASTER 1 .... +6 dBu/10 kΩ/390 Ω or less
 MASTER 2 .... +2 dBu/10 kΩ/1 kΩ or less
 BOOTH .... +6 dBu/10 kΩ/470 Ω or less
 SEND .... −12 dBu/10 kΩ/680 Ω or less
 PHONES .... +8 dBu/32 Ω/2 Ω or less
Rated output level / Load impedance
 MASTER 1 .... +24 dBu/10 kΩ
 MASTER 2 .... +20 dBu/10 kΩ
 BOOTH .... +24 dBu/10 kΩ
 SEND .... +11 dBu/10 kΩ
Crosstalk
 LINE .... 97 dB
 PHONO .... 80 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)
 MID .... −12 dB to +12 dB (2.5 kHz)
 LOW .... −12 dB to +12 dB (100 Hz)
MASTER 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)

Input / Output terminals
PHONO input terminals
 RCA pin jacks .... 2 sets
LINE input terminal
 RCA pin jacks .... 2 sets
MIC input terminal
 XLR connector & 1/4" TRS jack .... 2 sets
AUX input terminal
 RCA pin jacks .... 1 set
MASTER1 output terminal
 XLR connector .... 1 set
MASTER2 output terminal
 RCA pin jacks .... 1 set
BOOTH output terminal
 1/4" TRS jack .... 1 set
SEND output terminal
 1/4" TS jack .... 1 set
PHONES output terminal
 1/4" stereo phone jack .... 1 set
 3.5 mm stereo mini jack..................................... 1 set
USB ports
 A type .... 2 sets
 Power supply .... 5 V/1 A
 B type .... 1 set
LINK teminals
 LAN teminals (100Base-TX) .... 3 sets

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

■ Accessories

• Power cord
 (AXJ: DDG1114)
 (LWSYXJ: ADG1244)
 (UXJCB: DDG1108)

• USB cable
 (DDE1150)

• Operating Instructions (Quick Start Guide)
 (AXJ: DRH1542)
 (LWSYXJ: DRH1540, DRH1541)
 (UXJCB: DRH1539)

• Warranty (LWSYXJ only)

• Software license notice
 (AXJ: DRH1594)
 (LWSYXJ, UXJCB: DRH1592, DRH1593)

• rekordbox dj license key card

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 Test 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 complaint 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, AUX, 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, SEND).	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.	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 X-PAD etc.)	Make sure that all buttons and controls on the main unit function properly in Test mode.
9	Check the touch panel.	Check operation with all black screen in Test mode. Operations must be normal.
10	Check the connection of each interface.	
	Playback data contained in the device connected to USB A.	Audio, Search and operations must be normal.
	Confirm the connection with PC with USB B.	The PC must be linked. The rekordbox software must be linked.
	Confirm the connection with CDJ player and the PC by LAN.	This product is recognized definitely by CDJ player, and LINK be established. This product is recognized to a PC definitely, and LINK be established in rekordbox.
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
Software for writing the serial number	GGS1784	For writing the serial number of the unit to the MAIN Assy after replacement. The file is uploaded to Niis. Refer to "8.5 WRITING THE SERIAL NUMBER OF THE UNIT."
License-key card for Service	GGP1522	For activation of rekordbox dj
License-key card for Service	GGP1524	For activation of rekordbox Video
Extension jig FFC (27 pin, L = 500 mm)	GGD1903	Used for "8.3 JOG DIAL ROTATION LOAD ADJUSTMENT MODE". Refer to "7. DISASSEMBLY".
Acetate cloth tape	GYH1035	Refer to "9.8 LCD SECTION".
Double side tape	GYH1038	NITTO No. 500 (width:10 mm) Refer to "7. DISASSEMBLY". (JOG dial Section_Notes for Reassembling TFT LCD)

■ Lubricants and Glues List

| Name	Part No.	Remarks
Lubricating oil	GYA1001	Used for "9.4 CONTROL PANEL SECTION (1/3)", "9.5 CONTROL PANEL SECTION (2/3)" and "9.7 JOG DIALSECTION". Refer to "7. DISASSEMBLY".
Lubricating oil	GEM1106	Used for "9.7 JOG DIAL SECTION". Refer to "7. DISASSEMBLY". (Dry surf HFD-1610)

## ■ XDJ-XZ Service check sheet 1/2

Check contents	Check target	Operation part, Setting	Display part (LED)	Display part (LCD)	Status	Check
Version display	Firmware etc.	———	———	**VERSION INFORMATION**		
				SYSTEM	Firmware version display	☐ Ver. ___
				EUP		☐ Ver. ___
				PANEL M		☐ Ver. ___
				JOG LCD(DECK1)		☐ Ver. ___
				JOG LCD(DECK2)		☐ Ver. ___
				LANGUAGE	Language selection display	☐
				MAC_ADDR		☐
				MAC_ADDR(LAN)		☐
				SERIAL	Serial number display	☐
				UPDATE PORT	Update port check display	☐
				OPERATION CHECK	Mode 5 to 10 operation complete check display	☐
All LEDs and LCDs light off (or light on dimly)	All LED, LCD	Rotary selector	All LED, LCD rekordbox (white) LINK (blue) USB1 (green) USB2 (green) BROWSE (green) TAG LIST (green) INFO (green) MENU (green)	DISPLAY OFF	Turn to the right once it ➡ light off These LED light on dimly	☐
All LEDs and LCDs light on	All LED, LCD	Rotary selector	All LED, LCD	DISPLAY ON	———	☐
LCD patterns	LCD	Rotary selector	———	LCD PATTERN TEST	Cyclic pressed: color ➡ black ➡ white	☐

Service Mode

Check contents	Check target	Operation part, Setting	Display part (LED)	Display part (LCD)	Status	Check
Individual keys and LEDs	Button	**DECK 1 / 2**		KEY/LED TEST		
		►/II (PLAY /PAUSE)	PLAY /PAUSE (green)	CH1 / CH2 PLAY/PAUSE		☐/☐
		CUE	CUE (orange)	CH1 / CH2 CUE		☐/☐
		SEARCH (◄◄)	DIRECTION, REV (red)	CH1 / CH2 SEARCH REV		☐/☐
		SEARCH (►►)	SLIP (red)	CH1 / CH2 SEARCH FWD		☐/☐
		TRACK SEARCH (I◄◄)	LOOP IN/CUE (IN ADJUST) (orange)	CH1 / CH2 TRACK REV	Press ➡ light on, release ➡ light off	☐/☐
		TRACK SEARCH (►►I)	LOOP OUT (OUT ADJUST) (orange)	CH1 / CH2 TRACK FWD		☐/☐
		SHIFT	Jog ring illumination	CH1 / CH2 SHIFT		☐/☐
		DIRECTION, REV	DIRECTION, REVERSE (red)	CH1 / CH2 REVERSE		☐/☐
		SLIP	SLIP (red)	CH1 / CH2 SLIP		☐/☐
		4/8 BEAT (LOOP CUTTER)	LOOP IN/CUE (IN ADJUST)	CH1 / CH2 4 BEAT	Cyclic pressed: red ➡ green ➡ blue ➡ white ➡ OFF	☐/☐
		LOOP IN/CUE (IN ADJUST)	LOOP IN (orange)	CH1 / CH2 LOOP IN		☐/☐
		LOOP OUT (OUT ADJUST)	LOOP OUT (orange)	CH1 / CH2 LOOP OUT		☐/☐
		RELOOP/EXIT	RELOOP/EXIT (orange)	CH1 / CH2 RELOOP		☐/☐
		CUE/LOOP CALL ◄ (LOOP 1/2X)	LOOP IN/CUE (IN ADJUST) (orange)	CH1 / CH2 CALL PREV		☐/☐
		CUE/LOOP CALL ► (LOOP 2X)	LOOP OUT (OUT ADJUST) (orange)	CH1 / CH2 CALL NEXT		☐/☐
		DELETE	RELOOP/EXIT (orange)	CH1 / CH2 CUE DELETE		☐/☐
		MEMORY	Jog ring illumination	CH1 / CH2 CUE MEMORY		☐/☐
		SYNC (INST. DOUBLES)	SYNC (INST. DOUBLES) (white)	CH1 / CH2 SYNC	Press ➡ light on, release ➡ light off	☐/☐
		JOG MODE (VINYL)	JOG MODE (VINYL) (blue)	CH1 / CH2 VINYL		☐/☐
		JOG (TOUCH)	Jog ring illumination	CH1 / CH2 JOG TOUCH		☐/☐
		JOG ROTATE FWD	LOOP OUT (OUT ADJUST) (orange)	CH1 / CH2 JOG ROTATE FWD		☐/☐
		JOG ROTATE REV	LOOP IN/CUE (IN ADJUST) (orange)	CH1 / CH2 JOG ROTATE REV		☐/☐
		TEMPO	SYNC MASTER (orange)	CH1 / CH2 TEMPO RANGE		☐/☐
		MASTER TEMPO	MASTER TEMPO (red)	CH1 / CH2 MASTER TEMPO		☐/☐
		SYNC MASTER	MASTER (orange)	CH1 / CH2 MASTER		☐/☐
		HOT CUE (CALL)	HOT CUE (CALL)	CH1 / CH2 HOT CUE		☐/☐
		BEAT LOOP	BEAT LOOP	CH1 / CH2 AUTO BEAT LOOP		☐/☐
		SLIP LOOP	SLIP LOOP	CH1 / CH2 SLIP LOOP		☐/☐
		BEAT JUMP	BEAT JUMP	CH1 / CH2 BEAT JUMP		☐/☐
		PAD-1	PAD-1	CH1 / CH2 PAD1		☐/☐
		PAD-2	PAD-2	CH1 / CH2 PAD2	Cyclic pressed: red ➡ green ➡ blue ➡ white ➡ OFF	☐/☐
		PAD-3	PAD-3	CH1 / CH2 PAD3		☐/☐
		PAD-4	PAD-4	CH1 / CH2 PAD4		☐/☐
		PAD-5	PAD-5	CH1 / CH2 PAD5		☐/☐
		PAD-6	PAD-6	CH1 / CH2 PAD6		☐/☐
		PAD-7	PAD-7	CH1 / CH2 PAD7		☐/☐
		PAD-8	PAD-8	CH1 / CH2 PAD8		☐/☐
		Common				
		REKORDBOX	REKORDBOX (white)	MEDIA RB		☐
		LINK	LINK (blue)	MEDIA LINK	Press ➡ light on, release ➡ light on dimly	☐
		USB1	USB1 (green)	MEDIA USB1		☐
		USB2	USB2 (green)	MEDIA USB2		☐
		BROWSE (SEARCH)	BROWSE (SEARCH) (green)	BROWSE		☐
		TAGLIST	TAGLIST (green)	TAGLIST		☐
		INFO	INFO (green)	INFO	Press ➡ light on, release ➡ light off	☐
		MENU (UTILITY)	MENU (UTILITY) (green)	MENU		☐
		DECK QUANTIZE	DECK QUANTIZE (red)	DECK QUANTIZE		☐
		TIME	DECK QUANTIZE (red)	TIME MODE/ACUE		☐
		ROTARY SELECTOR	ROTARY SELECTOR (white)	ROTARY SELECTOR		☐
		BACK	BROWSE (SEARCH) (green)	BACK		☐
		TAG TRACK/REMOVE	TAGLIST (green)	TAG TRACK	Press ➡ light on, release ➡ light on dimly	☐
		TRACK FILTER (EDIT)	INFO (green)	TRACK FILTER		☐
		SHORT CUT	MENU (UTILITY) (green)	SHORT CUT		☐
		LOAD1	LOAD1 (white)	CH1 LOAD		☐
		LOAD2	LOAD2 (white)	CH2 LOAD		☐
		USB1 STOP	USB1 (white)	CH1 USB STOP	Press ➡ light on, release ➡ light off	☐
		USB2 STOP	USB2 (white)	CH2 USB STOP		☐
		MASTER REC (WAKE UP)	MASTER REC (WAKE UP)(red)	USB REC		☐
		TRACK MARK	MASTER REC (WAKE UP)(white)	TRACK MARK		☐
		Mixer				
		SOUND COLOR FX SWEEP	SOUND COLOR FX SWEEP (white)	CFX SWEEP		☐
		SOUND COLOR FX DUB ECHO	SOUND COLOR FX DUB ECHO (white)	CFX DUB ECHO		☐
		SOUND COLOR FX SPACE	SOUND COLOR FX SPACE (white)	CFX SPACE		☐
		SOUND COLOR FX NOISE	SOUND COLOR FX NOISE (white)	CFX NOISE		☐
		SOUND COLOR FX CRUSH	SOUND COLOR FX CRUSH (white)	CFX CRUSH		☐
		SOUND COLOR FX FILTER	SOUND COLOR FX FILTER (white)	CFX FILTER		☐
		CUE CH1	CUE CH1 (orange)	CH1 HEADPHONE CUE CH		☐
		CUE CH2	CUE CH2 (orange)	CH2 HEADPHONE CUE CH		☐
		CUE CH3	CUE CH3 (orange)	CH3 HEADPHONE CUE CH		☐
		CUE CH4	CUE CH4 (orange)	CH4 HEADPHONE CUE CH		☐
		CUE MASTER	CUE MASTER (orange)	MASTER CUE	Press ➡ light on, release ➡ light off	☐
		BEAT FX ON/OFF	BEAT FX ON/OFF (blue)	EFFECT ON/OFF		☐
		FX FREQUENCY HI	FX FREQUENCY HI (blue)	FX HI		☐
		FX FREQUENCY MID	FX FREQUENCY MID (blue)	FX MID		☐
		FX FREQUENCY LOW	FX FREQUENCY LOW (blue)	FX LOW		☐
		AUTO/TAP	FX QUANTIZE (red)	AUTO/TAP		☐
		TAP	TAP (green)	TAP		☐
		FX QUANTIZE	FX QUANTIZE (red)	FX QUANTIZE		☐
		BEAT (►)	TAP (green)	BEAT NEXT		☐
		BEAT (◄)	BEAT FX ON/OFF (white)	BEAT PREV		☐
		MIC TALK OVER	MIC TALK OVER (red)	TALKOVER		☐
		FEEDBACK REDUCER	FEEDBACK REDUCER (green)	FEEDBACK REDUCER		☐

Check contents	Check target	Operation part, Setting		Display part (LED)	Display part (LCD)	Status	Check
Service Mode							
Individual switches, MIC LEDs and PAD LEDs	SW select	INPUT SELECT(CH3)	PC / LINE / PHONO		SW TEST PC / LINE / PHONO		☐
		INPUT SELECT(CH4)	PC / LINE / PHONO		PC / LINE / PHONO		☐
		CROSS FADER ASSIGN (CH1/CH2/CH3/CH4)	A / THRU / B		A / THRU / B		☐
		AUX	OFF / LINE / PORTABLE		OFF / LINE / PORTABLE	Display on LCD when selected	☐
		MIC1 / MIC2	OFF / ON	MIC 1/2 (OFF: light off, ON: light on)	OFF / ON		☐/☐
		FEEDBACK REDUCER	LIGHT / HEAVY	MIC 1/2 CLIP, MIC 1/2 SIGNAL (LIGHT → CLIP light on, SIGNAL: light off HEAVY → CLIP: light off, SIGNAL: light on)	LIGHT / HEAVY		☐
	PAD LED(lump)	**DECK 1 / 2** PAD MODE (HOT CUE (CALL))		Performance Pads ×8, PAD MODE buttons ×4		Press ➡ light on red	☐/☐
		PAD MODE (BEAT LOOP)				Press ➡ light on green	☐/☐
		PAD MODE (SLIP LOOP)				Press ➡ light on blue	☐/☐
		PAD MODE (BEAT JUMP)				Press ➡ light on white	☐/☐
Values of the rotary variable controls and sliders	Volume operation	CH1 / CH2 / CH3 / CH4 TRIM			VOL TEST CH1 / CH2 / CH3 / CH4 TRIM xxx		☐/☐/☐/☐
		CH1 / CH2 / CH3 / CH4 HI			CH1 / CH2 / CH3 / CH4 HI xxx		☐/☐/☐/☐
		CH1 / CH2 / CH3 / CH4 MID			CH1 / CH2 / CH3 / CH4 MID xxx	Display the value (000 to 3FF hexadecimal) to the position of VR.	☐/☐/☐/☐
		CH1 / CH2 / CH3 / CH4 LOW			CH1 / CH2 / CH3 / CH4 LOW xxx		☐/☐/☐/☐
		CH1 / CH2 / CH3 / CH4 COLOR			CH1 / CH2 / CH3 / CH4 COLOR xxx		☐/☐/☐/☐
		CH1 / CH2 / CH3 / CH4 FADER			CH1 / CH2 / CH3 / CH4 FADER xxx		☐/☐/☐/☐
		CH1 / CH2 TEMPO			CH1 / CH2 TEMPO xxx	Display the value (000 to 3FF0 hexadecimal) to the position of VR.	☐/☐
		CH1 / CH2 TOUCH/RELESE			CH1 / CH2 TOUCH/RELESE xxx		☐/☐
		MIC1 / MIC2 EQ HI			MIC1 / MIC2 EQ HI xxx		☐/☐
		MIC1 / MIC2 EQ MIDI			MIC1 / MIC2 EQ MIDI xxx		☐/☐
		MIC1 / MIC2 EQ LOW			MIC1 / MIC2 EQ LOW xxx		☐/☐
		HP MIXING			HP MIXING xxx		☐
		HP LEVEL			HP LEVEL xxx		☐
		EFFECT PARAMETER			PARAMETER xxx		☐
		AUX TRIM			AUX TRIM xxx	Display the value (000 to 3FF hexadecimal) to the position of VR.	☐
		CROSS FADER			CROSS FADER xxx		☐
		LEVEL/DEPTH			LEVEL DEPTH xxx		☐
		BOOTH LEVEL			BOOTH LEVEL xxx		☐
		MASTER LEVEL			MASTER LEVEL xxx		☐
		MASTER EQ HI			MASTER EQ HI xxx		☐
		MASTER EQ MIDI			MASTER EQ MIDI xxx		☐
		MASTER EQ LOW			MASTER EQ LOW xxx		☐
		BEAT EFFECT SELECTOR			BEAT FX TYPE xxx	Display the value (000 to 00D hexadecimal) to the position of switch.	☐
		BEAT CH SELECTOR			BEAT FX CH xxx	Display the value (000 to 00A hexadecimal) to the position of switch.	☐
X-PAD test	X-PAD operation	X-PAD upper			X-PAD TEST TOUCH UPPER ON / OFF	Touch ➡ ON, Release ➡ OFF	☐
		X-PAD lower			TOUCH LOWER ON / OFF	Touch ➡ ON, Release ➡ OFF	☐
		X-PAD upper			X-PAD UPPER xxx	Display the value (00 to FF hexadecimal) to the touch position of upper	☐
		X-PAD lower			X-PAD LOWER xxx	Display the value (00 to FF hexadecimal) to the touch position of lower	☐
		X-PAD SLICER			X-PAD SLICER xxx	Display the value (00 to FF hexadecimal) to the touch position of slicer	☐
		X-PAD POSITION			TOUCH POSITION xxx	Display the beat information to the touch position	☐
Touch panel test	Touch operation				TOUCH PANEL TEST	Touch four ☐ position ➡ green, display "Touch test OK"	☐
Rotary selector	Select operation	ROTARY SELECTOR			SELECTOR TEST SELECTOR xx	Display the value (00 to FF hexadecimal) to the position of selector.	☐
		TIME			TIME xx	Display the value (00 to FF hexadecimal) to the position of selector.	☐

XDJ-XZ

3.3 PCB LOCATIONS

- **Chassis Section**

AE LCDB ASSY

- Bottom view

C MCIN ASSY   **B** AUDIO ASSY   **E** USBA ASSY

MCTR ASSY **D**

A MAIN ASSY

STL2 ASSY
STL3 ASSY
STL2 ASSY
STL3 ASSY

SW POWER SUPPLY **AF**   STL1 ASSY   STL4 ASSY

- **Control Panel Section**

JLCD1 ASSY **AA**
or
JLCD2 ASSY **AB**

XPAD ASSY **Q**

G UCOM ASSY

AA JLCD1 ASSY
or
AB JLCD2 ASSY

H MIXER ASSY

S PWSW ASSY

- Bottom view

DCK2 ASSY **T**

R DCK1 ASSY

SER1 ASSY **W**
or
SER2 ASSY **X**

AC JOG1 ASSY
or
AD JOG2 ASSY

JOG1 ASSY **AC**
or
JOG2 ASSY **AD**

W SER1 ASSY
or
X SER2 ASSY

TMP1 ASSY **U**
or
TMP2 ASSY **V**

Y PLAY1 ASSY
or
Z PLAY2 ASSY

PAD2 ASSY **P**

N CRFD ASSY

O PAD1 ASSY

PLAY1 ASSY **Y**
or
PLAY2 ASSY **Z**

HPJK ASSY **F**

U TMP1 ASSY
or
V TMP2 ASSY

EFSW ASSY **I**

J CHF1 ASSY
or
K CHF2 ASSY
or
L CHF3 ASSY
or
M CHF4 ASSY

Note:
The 1 and 2 Assys of JLCD, PLAY, SER, TMP 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 1 or 2 Assy of the respective Assys is assembled in the respective place.

The 1 to 4 Assys of CHF 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 1, 2, 3 or 4 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.

Mark	No. Description	Part No.		Mark	No. Description	Part No.
	LIST OF ASSEMBLIES					
■	1..MAIN ASSY	DWX4287		NSP	1..UCOMA ASSY	DWM2721
					2..UCOM ASSY	DWX4296
NSP	1..PADA ASSY	DWM2720			2..EFSW ASSY	DWX4297
	2..LCDB ASSY	DWX4291				
	2..PAD1 ASSY	DWX4292			1..MIXER ASSY	DWX4299
	2..PAD2 ASSY	DWX4293				
	2..USBA ASSY	DWX4294		NSP	1..PNL1 ASSY	DWM2725
					2..DCK1 ASSY	DWX4309
	2..CRFD ASSY	DWX4295			2..TMP1 ASSY	DWX4311
					2..PWSW ASSY	DWX4312
NSP	1..JOGA ASSY	DWM2719			2..CHF3 ASSY	DWX4305
	2..JLCD1 ASSY	DWX4288				
	2..JLCD2 ASSY	DWX4289			2..STL1 ASSY	DWX4319
	2..XPAD ASSY	DWX4290			2..STL2 ASSY	DWX4320
					2..STL3 ASSY	DWX4321
	1..AUDIO ASSY	DWX4298				
				NSP	1..PNL2 ASSY	DWM2726
NSP	1..SUBA ASSY	DWM2724			2..DCK2 ASSY	DWX4313
	2..MCIN ASSY	DWX4300			2..TMP2 ASSY	DWX4315
	2..HPJK ASSY	DWX4301			2..CHF4 ASSY	DWX4306
	2..MCTR ASSY	DWX4302			2..JOG1 ASSY	DWX4317
	2..CHF1 ASSY	DWX4303				
					2..JOG2 ASSY	DWX4318
	2..CHF2 ASSY	DWX4304			2..STL4 ASSY	DWX4322
	2..PLAY1 ASSY	DWX4307				
	2..PLAY2 ASSY	DWX4308		⚠	1..SW POWER SUPPLY	DWR1548
	2..SER1 ASSY	DWX4310				
	2..SER2 ASSY	DWX4314				
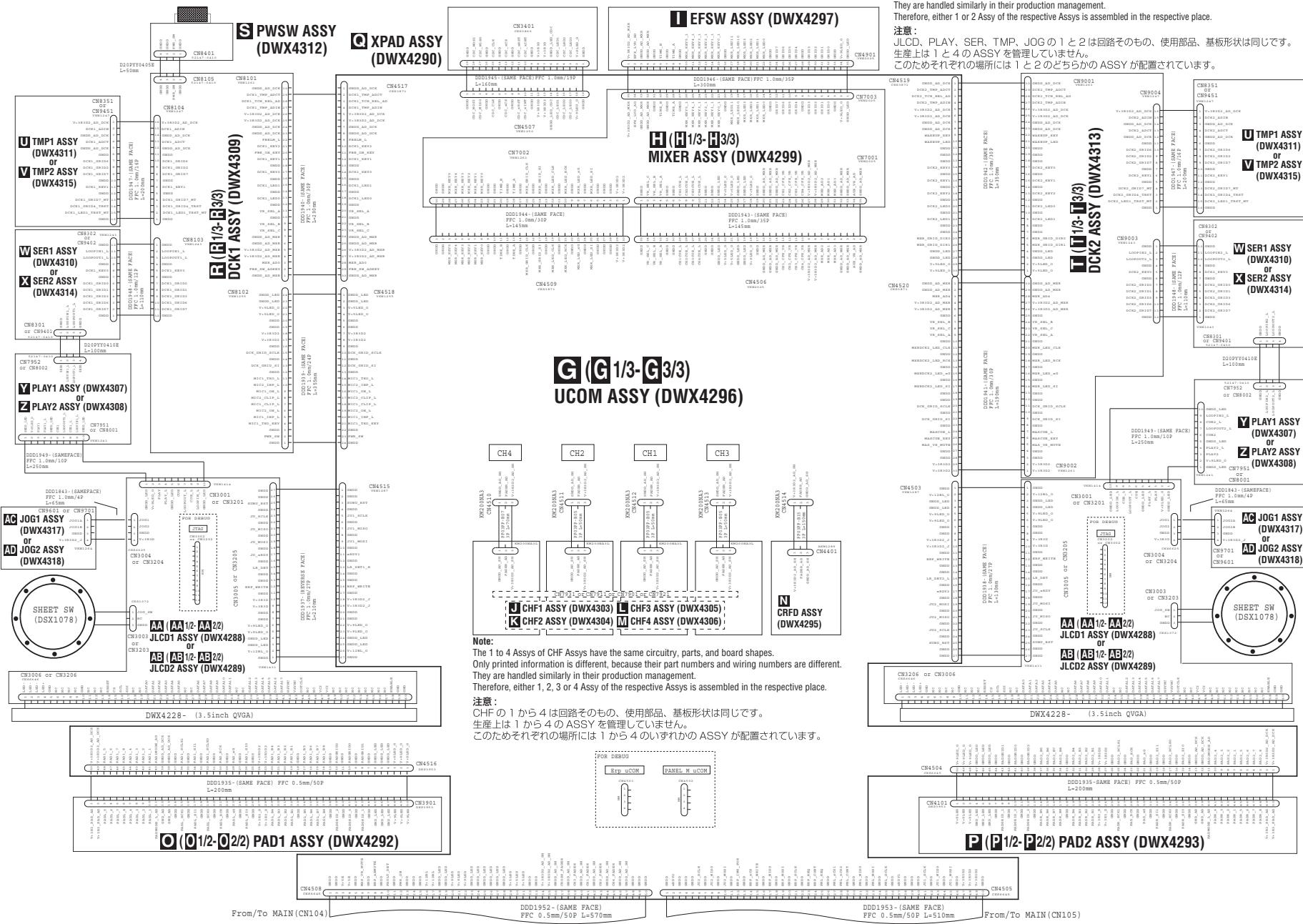
4. BLOCK DIAGRAM

Note:
The 1 and 2 Assys of JLCD, PLAY, SER, TMP 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 1 or 2 Assy of the respective Assys is assembled in the respective place.

注意：
JLCD、PLAY、SER、TMP、JOG の 1 と 2 は回路そのもの、使用部品、基板形状は同じです。
生産上は 1 と 4 の ASSY を管理していません。
このためそれぞれの場所には 1 と 2 のどちらかの ASSY が配置されています。

S PWSW ASSY (DWX4312)
Q XPAD ASSY (DWX4290)
I EFSW ASSY (DWX4297)

U TMP1 ASSY (DWX4311) or **V** TMP2 ASSY (DWX4315)

R (**R**1/3- **R**3/3) DCK1 ASSY (DWX4309)

H (**H**1/3- **H**3/3) MIXER ASSY (DWX4299)

W SER1 ASSY (DWX4310) or **X** SER2 ASSY (DWX4314)

T (**T**1/3- **T**3/3) DCK2 ASSY (DWX4313)

U TMP1 ASSY (DWX4311) or **V** TMP2 ASSY (DWX4315)

W SER1 ASSY (DWX4310) or **X** SER2 ASSY (DWX4314)

Y PLAY1 ASSY (DWX4307) or **Z** PLAY2 ASSY (DWX4308)

G (**G**1/3- **G**3/3) UCOM ASSY (DWX4296)

Y PLAY1 ASSY (DWX4307) or **Z** PLAY2 ASSY (DWX4308)

XDJ-XZ

AC JOG1 ASSY (DWX4317) or **AD** JOG2 ASSY (DWX4318)

CH4   CH2   CH1   CH3

SHEET SW (DSX1078)

FOR DEMO

AA (**AA**1/2- **AA**2/2) JLCD1 ASSY (DWX4288) or **AB** (**AB**1/2- **AB**2/2) JLCD2 ASSY (DWX4289)

J CHF1 ASSY (DWX4303)   **L** CHF3 ASSY (DWX4305)
K CHF2 ASSY (DWX4304)   **M** CHF4 ASSY (DWX4306)

N CRFD ASSY (DWX4295)

AC JOG1 ASSY (DWX4317) or **AD** JOG2 ASSY (DWX4318)

SHEET SW (DSX1078)

AA (**AA**1/2- **AA**2/2) JLCD1 ASSY (DWX4288) or **AB** (**AB**1/2- **AB**2/2) JLCD2 ASSY (DWX4289)

Note:
The 1 to 4 Assys of CHF 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 1, 2, 3 or 4 Assy of the respective Assys is assembled in the respective place.

注意：
CHF の 1 から 4 は回路そのもの、使用部品、基板形状は同じです。
生産上は 1 から 4 の ASSY を管理していません。
このためそれぞれの場所には 1 から 4 のいずれかの ASSY が配置されています。

DWX4228-   (3.5inch QVGA)

DWX4228-   (3.5inch QVGA)

FOR DEBUG
Erp uCOM   PANEL M uCOM

O (**O**1/2- **O**2/2) PAD1 ASSY (DWX4292)

P (**P**1/2- **P**2/2) PAD2 ASSY (DWX4293)

From/To MAIN(CN104)   DDD1952-(SAME FACE) FFC 0.5mm/50P L=570mm   DDD1953-(SAME FACE) FFC 0.5mm/50P L=510mm   From/To MAIN(CN105)

4.3 OVERALL BLOCK DIAGRAM

A MAIN ASSY

Power Detection Circuit1 — A_FDET — Power Detection Circuit2

X1402 Xtal 24 MHz / X1401 Xtal 32.768 kHz / JTAG / BOOT Config / SD BOOT Connector / UART

SJC / SRC / SD3 / CSI0_DAT10 CSI0_DAT11

AE LCDB ASSY

Touch Panel / Touch Panel Control IC AK4187- / V=3RD_Pullup / 7inch LCD Module / LCD xReset / LVDS Receiver BU90R104 / LCD LED
IC303 Backl ight Driver BD16BLS50J-ZLS4

I2C / I2C3 / LDB / LVDS (33 MHz) / PWM / BL_EN / GPIO

IC502 PMIC MMPF0100FAEP-K
IC1101 Apple Authentication IC H32753969-TBB
IC1102 Nand Flash MX30LF2G18AC-TI-K
IC901 DDR3 4Gbit K4B4G1646E-BYMA-K
IC902 DDR3 4Gbit K4B4G1646E-BYMA-K

I2C / I2C2 / GPIO / AUTH_xRST / GPIO / I2C1 / USB_HI_DP / USB_HI_DN / GPMI / MMDC

E USBA ASSY
USBA1 / USBA2
X1801 Xtal 24 MHz
IC1803 Hi-Side SW TPS2557DRB
IC1804 Hi-Side SW TPS2557DRB
IC1805 USBA HUB TUSB4420BRHP-TLB
USBAHUB_xRST

IC701 MAIN UCOM i.MX6 Quad MCIMX6Q8AVT10AD-K (Core 996 MHz)

ECSPI3 / ECSPI2 / ECSPI4 / GPIO / [ENET] / GPIO / USB_OTG_DP / USB_OTG_DN / USB_OTG_VBUS / PN1_CONT / GPIO / AUD3 / AUD5 / ECSPI5

X2151 Xtal 25 MHz
CH3 / CH4 / Extention — LAN Connector AKN7115-A
IC2151 LANHUB IC RTL8309M-CG-K
X2001 Xtal 25 MHz
IC2001 USB/LAN Conversion IC RTL8152B-VB-CG-TBB
IC2002 USBB HUB 4ch TUSB4041IPAP-TLB
X2002 Xtal 24 MHz
USBB Connector

AA JLCD1 ASSY
IC3003 SPI Flash 64 Mbit W25Q64JVSSIQ-K
IC3002 JOG LCD UCOM1 R5S72690W266FP-K
IC3007 SDRAM 64 Mbit W9864G6KH-5-K
JOG LCD TFT Module DWX4209-
X3001 Xtal 13.3333MHz

AC JOG1 ASSY
JOG(Rotate) / JOG(Touch) Sheet SW / PLAY/CUE KEY PLAY/CUE LED LOOP IN/OUT LED

AB JLCD2 ASSY
IC3203 SPI Flash 64 Mbit W25Q64JVSSIQ-K
IC3202 JOG LCD UCOM2 R5S72690W266FP-K
IC3206 SDRAM 64 Mbit W9864G6KH-5-K
JOG LCD TFT Module DWX4209-
X3001 Xtal 13.3333MHz

AD JOG2 ASSY
JOG(Rotate) / JOG(Touch) Sheet SW / PLAY/CUE KEY PLAY/CUE LED LOOP IN/OUT LED

Update Connector
X4501 Xtal 16 MHz
IC4503 RESET IC PST9430N-TLB
IC4502 ERP UCOM M16C64(100pin) R5F364AENFA-U0-K
IC4501 74LCX244FT-TBB
IC4505 PANELM UCOM M16C64(100pin) R5F364AENFA-U0-K
Debug

DECK VR / PAD D'ODECK / DECK KEYLED / PWR_ON / FAULT_DET

G UCOM ASSY

AF SW POWER SUPPLY — To SMPS

H MIXER ASSY — Mixer KEY / Mixer LED / I2H-CH4_GFX_VR / AUX_IR_AD / TC74HC4051AF Others Mixer VR

I EFSW ASSY — EFSW KEY

IC2302 MIXER UCOM R5S72690W266FP-K (266 MHz)
X2301 48.000 MHz / X2302 13.3333 MHz
IC2303 SPI Flash 16Mbit W25Q16JVSSIQ-K

LCD BROWSE ENCODER / LCD KEY1-3

J CHF1 ASSY / K CHF2 ASSY / L CHF3 ASSY / M CHF4 ASSY / N CRFD ASSY
CH1_FADER / CH2_FADER / CH3_FADER / CH4_FADER / CROSS_FADER

IC3401 XPAD Control IC ATSAM3206H-SA-MU-TBB — JTAG / XPAD
Q XPAD ASSY — LED

B AUDIO ASSY
X5101 22.579 MHz
CH3 / CH4 — IC5204 AK5386VT / IC5404 AK5386VT
MIC1 MIC2 / Analog Trim — IC5604 AK5358AET
C MCIN ASSY / D MCTR ASSY
AUX — IC5603 AK5358AET

IC2501 DSP D810K013DZKB400-K (400 MHz)
IC2502 SDRAM 16bit Bus 128 Mbit

ADAT_CH3 / ADAT_CH4 / ADAT_MIC12 / ADAT_MASTER / ADAT_BOOTH / ADAT_SEND / ADAT_AUX / ADAT_HP

IC5802 DAC 4ch Multi AK4458VN-TLB
IC5801 DAC AK4384ET-TBB

ATT / Master1 / Master2 / Booth / HP

F HPJK ASSY

XDJ-XZ

4.5 MATRIX INFORMATION

Control UCOM List

UCOM Name	Ref No.	Assy Name
MAIN(i.MX)	IC701	MAIN
MIXER	IC2302	MAIN
JOGLCD1	IC3002	JLCD1
JOGLCD2	IC3202	JLCD2
PNLM	IC4505	UCOM
ERP	IC4502	UCOM

SW/VR (KEY/AD)

■ KEY MATRIX

DCK1	GRID0	GRID1	GRID2	GRID3	GRID4	GRID5	GRID6	GRID7	Control UCOM
DCK1_KEY0	T-SRCH ◄◄	SRCH ◄◄	REV	T-SRCH ►►|	SLIP		SRCH ►►	SHIFT	ERP
DCK1_KEY1	VINYL	SYNC	TMP RESET	MASTER	4Beat		TMP RANGE	MS TMP	
DCK1_KEY2	RELOOP	MEMORY	LOOP IN	DELETE	LOOP OUT		CUE CALL ►	CUE CALL ◄	

DCK2	GRID0	GRID1	GRID2	GRID3	GRID4	GRID5	GRID6	GRID7	Control UCOM
DCK2_KEY0	T-SRCH ◄◄	SRCH ◄◄	REV	T-SRCH ►►|	SLIP	USB1_STOP	SRCH ►►	SHIFT	ERP
DCK2_KEY1	VINYL	SYNC	TMP RESET	MASTER	4Beat	USB2_STOP	TMP RANGE	MS TMP	
DCK2_KEY2	RELOOP	MEMORY	LOOP IN	DELETE	LOOP OUT	TRK_MARK	CUE CALL ►	CUE CALL ◄	

MIXER	MXR_GRID0	MXR_GRID1	MXR_GRID2	MXR_GRID3	MXR_GRID4	MXR_GRID5	MXR_GRID6	MXR_GRID7	Control UCOM
MXR_KEY0	CH3 INPUT SEL PC/LINE/PHONO	CH3 INPUT SEL PC/LINE/PHONO	AUX_OFF/LINE/POR TABLE	AUX_OFF/LINE/POR TABLE			CH4 INPUT SEL PC/LINE/PHONO	CH4 INPUT SEL PC/LINE/PHONO	PNLM
MXR_KEY1	CH3 CUE	CH1 CUE	CH2 CUE	CH4 CUE	FQ_LOW	FQ_MID	FQ_HI		
MXR_KEY2				BFX_CHSEL1	AUTO/TAP SW	TAP	MXR_QTZ	BFX_SEL1	
MXR_KEY3	CFX SPACE	CFX DUB ECHO	CFX SWEEP	BFX_CHSEL2	CFX SPACE	CFX DUB ECHO	CFX SWEEP	BFX_SEL2	
MXR_KEY4	CFX NOISE	CFX CRUSH	CFX FILTER	BFX_CHSEL3	CFX NOISE	CFX CRUSH	CFX FILTER	BFX_SEL3	
MXR_KEY5	BFX ON/OFF	BFX ◄	BFX ►	BFX_CHSEL4	BFX ON/OFF	BFX ◄	BFX ►	BFX_SEL4	

■ DIRECT KEY/TIMER

DCK1	Control UCOM
PLAY	JOGLCD1
CUE	JOGLCD1
FBE_SW	PNLM
FBE ON/OFF	PNLM

DCK2	Control UCOM
PLAY	JOGLCD2
CUE	JOGLCD2
MAS REC/WAKEUP	ERP
PWR_SW	ERP
MASCUE	PNLM

LCD	Control UCOM
BRWS_ENC	MIXER

MIXER	Control UCOM
FBE_SW	PNLM

JOG1/JLCD1	Control UCOM
JOG_SW	JLCD1
JOG1	JLCD1
JOG2	JLCD1

JOG2/JLCD2	Control UCOM
JOG_SW	JLCD2
JOG1	JLCD2
JOG2	JLCD2

EFSW	Control UCOM
TIME	PNLM

■ DIRECT AD

PAD1&2	Control UCOM
PAD(1 to 8)	ERP

CHF1 to 4/CRF	Control UCOM
CHFADER_1 to 4	MIXER
CROSS FADER	MIXER

MIXER	Control UCOM
CH1 to 4_CFX_VR	PNLM
AUX_VR	PNLM

■ AD KEY (Resistive Dividing Voltage)

PAD1&2					Control UCOM
PADMODE_L	HOT CUE	AUTO BEAT LOOP	SLIP LOOP	BEAT JUMP	ERP
PADMODE_R	HOT CUE	AUTO BEAT LOOP	SLIP LOOP	BEAT JUMP	ERP
Voltage(typ)	0.0 V	0.4 V	0.8 V	1.2 V	

LCD							Control UCOM
LCD_KEY1	QUANTIZE	TIME MODE	USB2	USB1	LINK	rekordbox	MIXER
LCD_KEY2	LOAD2	ROTARY SEARCH	SHORTCUT	FILTER	BACK	TAG TRACK	MIXER
LCD_KEY3	LOAD1		MENU	INFO	TAG LIST	BROWSE	MIXER
Voltage(typ)	0.0 V	0.4 V	0.8 V	1.2 V	1.7 V	2.2 V	

MIXER/DCK1	SW position				Control UCOM
	OPEN (THRU)	A	THRU	B	
		OFF	-	ON	
MIC1_SW (OFF/ON)	-	1.6 V	-	0.0 V	MIXER
MIC2_SW (OFF/ON/)	-	1.6 V	-	0.0 V	
CH1_FDSW (A/THRU/B)	3.3 V	1.8 V	1.0 V	0.0 V	
CH2_FDSW (A/THRU/B)	3.3 V	1.8 V	1.0 V	0.0 V	
CH3_FDSW (A/THRU/B)	3.3 V	1.8 V	1.0 V	0.0 V	
CH4_FDSW (A/THRU/B)	3.3 V	1.8 V	1.0 V	0.0 V	
	Voltage(typ)				

■ MULTIPLEXER AD

MIXER		VR Select							
Multiplexer SW Signal	VR_SEL_C	0	0	0	0	1	1	1	1
	VR_SEL_B	0	0	1	1	0	0	1	1
	VR_SEL_A	0	1	0	1	0	1	0	1
MultiplexerAD OUTPUT Signal	MXR_AD0	MIC1_SW (OFF/ON)	MIC2_SW (OFF/ON)	MIC1_LOW	MIC2_LOW	MIC1_MID	MIC2_MID	MIC1_HI	MIC2_HI
	MXR_AD1	CH2_FDSW (A/THRU/B)	CH1_FDSW (A/THRU/B)	CH3_FDSW (A/THRU/B)	CH4_FDSW (A/THRU/B)	CFX_PARAM	EFX_LVD (Lvel/depth)	HP_MIX	HP_LV
	MXR_AD2	CH1_HI	CH1_MID	CH1_LOW	CH1 TRIM	CH2 TRIM	CH2_LOW	CH2_HI	CH2_MID
	MXR_AD3	CH3_HI	CH3_MID	CH3_LOW	CH3 TRIM	CH4_HI	CH4_MID	CH4_LOW	CH4 TRIM
	MXR_AD2	CH2_MID	CH2_LOW	CH2_TRIM	CH2_HI	CH4_TRIM	CH4_LOW	CH4_HI	CH4_MID
	MXR_AD3	CH3_MID	CH3_LOW	CH3_TRIM	CH3_HI	CH1_TRIM	CH1_LOW	CH1_HI	CH1_MID
	MXR_AD4	MAS LV	MAS_MID	-	MAS_LOW	MAS_HI	-	BOOTH_LV	-

IC: TC74HC4051AF

LED

■ LED MATRIX

DCK1	GRID0	GRID1	GRID2	GRID3	GRID4	GRID5	GRID6	GRID7	Control UCOM
DCK1_LED0			REV		RELOOP		VINYL	MASTER	ERP
DCK1_LED1			SLIP		TMP_RST		SYNC	MT	

DCK2	GRID0	GRID1	GRID2	GRID3	GRID4	GRID5	GRID6	GRID7	Control UCOM
DCK2_LED0			REV		RELOOP	USB STOP1	VINYL	MASTER	ERP
DCK2_LED1			SLIP		TMP_RST	USB STOP2	SYNC	MT	

	GRID_DIR0	GRID_DIR1	Control UCOM
MXRDCK2_LED0	MASL Lv 15	MASR Lv 15	PNLM
MXRDCK2_LED1	MASL Lv 12	MASR Lv 12	
MXRDCK2_LED2	MASL Lv 9	MASR Lv 9	
MXRDCK2_LED3	MASL Lv 6	MASR Lv 6	
MXRDCK2_LED4	MASL Lv 3	MASR Lv 3	
MXRDCK2_LED5	MASL Lv 0	MASR Lv 0	
MXRDCK2_LED6	MASL Lv -3	MASR Lv -3	
MXRDCK2_LED7	MASL Lv -6	MASR Lv -6	
MXRDCK2_LED8	MASL Lv -9	MASR Lv -9	
MXRDCK2_LED9	MASL Lv -15	MASR Lv -15	
MXRDCK2_LED10	MASL Lv -24	MASR Lv -24	
MXRDCK2_LED11	MAS_CLIP		

MIXER

	MXR_GRID0	MXR_GRID1	MXR_GRID2	MXR_GRID3	MXR_GRID4	MXR_GRID5	MXR_GRID6	MXR_GRID7	Control UCOM
MXR_LED0	FQ_LOW	FQ_LOW	CH1 Lv 15	CH2 Lv 15	CH3 Lv 15	CH4 Lv 15			PNLM
MXR_LED1	FQ_MID	FQ_MID	CH1 Lv 12	CH2 Lv 12	CH3 Lv 12	CH4 Lv 12			
MXR_LED2	FQ_HI	FQ_HI	CH1 Lv 9	CH2 Lv 9	CH3 Lv 9	CH4 Lv 9			
MXR_LED3	TAP	TAP	CH1 Lv 6	CH2 Lv 6	CH3 Lv 6	CH4 Lv 6			
MXR_LED4	CFX1	CFX1	CH1 Lv 3	CH2 Lv 3	CH3 Lv 3	CH4 Lv 3			
MXR_LED5	CFX2	CFX2	CH1 Lv 0	CH2 Lv 0	CH3 Lv 0	CH4 Lv 0			
MXR_LED6	CFX3	CFX3	CH1 Lv -3	CH2 Lv -3	CH3 Lv -3	CH4 Lv -3			
MXR_LED7	CFX4	CFX4	CH1 Lv -6	CH2 Lv -6	CH3 Lv -6	CH4 Lv -6			
MXR_LED8	CFX5	CFX5	CH1 Lv -9	CH2 Lv -9	CH3 Lv -9	CH4 Lv -9			
MXR_LED9	CFX6	CFX6	CH1 Lv -15	CH2 Lv -15	CH3 Lv -15	CH4 Lv -15			
MXR_LED10	MXR_QTZ	MXR_QTZ	CH1 Lv -24	CH2 Lv -24	CH3 Lv -24	CH4 Lv -24			
MXR_LED11	BFX ON	BFX ON							

PAD1 — Control UCOM

		PADGRID_0	PADGRID_1	PADGRID_2	Control UCOM
PADL_SI0 / PADL_SCK0 / PAD_RCK / PAD_xG	QA			BEAT JUMP_B	ERP
	QB	PAD4_G	PAD8_G	BEAT JUMP_G	
	QC	PAD4_R	PAD8_R	BEAT JUMP_R	
	QD	DIMMER CONTROL			
	QE	PAD3_R	PAD7_R	SLIP LOOP_R	
	QF	PAD3_G	PAD7_G	SLIP LOOP_G	
	QG			SLIP LOOP_B	
	QH1	DIMMER CONTROL			
PADL_SI1 / PADL_SCK1 / PAD_RCK / PAD_xG	QA	PAD2_R	PAD6_R	AUTO BEAT LOOP_R	
	QB	PAD2_G	PAD6_G	AUTO BEAT LOOP_G	
	QC			AUTO BEAT LOOP_B	
	QD	DIMMER CONTROL			
	QE			HOT CUE_B	
	QF	PAD1_G	PAD5_G	HOT CUE_G	
	QG	PAD1_R	PAD5_R	HOT CUE_R	
	QH1	DIMMER CONTROL			

PAD2 — Control UCOM

		PADGRID_0	PADGRID_1	PADGRID_2	Control UCOM
PADR_SI0 / PADR_SCK0 / PAD_RCK / PAD_xG	QA			BEAT JUMP_B	ERP
	QB	PAD4_G	PAD8_G	BEAT JUMP_G	
	QC	PAD4_R	PAD3_R	BEAT JUMP_R	
	QD	DIMMER CONTROL			
	QE	PAD3_R	PAD7_R	SLIP LOOP_R	
	QF	PAD3_G	PAD7_G	SLIP LOOP_G	
	QG			SLIP LOOP_B	
	QH1	DIMMER CONTROL			
PADR_SI1 / PADR_SCK1 / PAD_RCK / PAD_xG	QA	PAD2_R	PAD6_R	AUTO BEAT LOOP_R	
	QB	PAD2_G	PAD6_G	AUTO BEAT LOOP_G	
	QC			AUTO BEAT LOOP_B	
	QD	DIMMER CONTROL			
	QE			HOT CUE_B	
	QF	PAD1_G	PAD5_G	HOT CUE_G	
	QG	PAD1_R	PAD5_R	HOT CUE_R	
	QH1	DIMMER CONTROL			

■ LED DIRECT

DCK1

DCK1	Control UCOM
LOOP IN1	JLCD1
LOOP OUT1	
WAKEUP/MAS REC	
PLAY1	
CUE1	
FBELM	PNLM
MIC1_CLIP	
MIC1_INPUT	
MIC2_CLIP	
MIC2_INPUT	
MIC1_ON	
MIC2_ON	

DCK2

DCK2	Control UCOM
LOOP IN2	JLCD2
LOOP OUT2	
PLAY2	
CUE2	
CUE MAS	PNLM

JLCD1&2

JLCD1&2	Control UCOM
JOG1 LED	JLCD1
JOG2 LED	JLCD2

LCD

LCD	Control UCOM
QTZ(Quantize)	MAIN(I.MX)
USB2	
USB1	
LINK	
RKB(rekordbox)	
BROWSE	
TAG LIST	
INFO	
MENU	
BROWSE ENC(ILM)	
DCK1	
DCK2	

PAD1&2

PAD1&2	Control UCOM
PAD1 BLUE(1 to 8)	ERP
PAD2 BLUE(1 to 8)	

MIXER

MIXER	Control UCOM
CUE CH1	PNLM
CUE CH2	
CUE CH3	
CUE CH4	

XPAD

XPAD	Control UCOM
CDC_LED1	PNLM
CDC_LED2	
CDC_LED3	

5. DIAGNOSIS
5.1 STARTUP SEQUENCE

■ STARTUP SEQUENCE

Power cord connected.

It supplies V+12E and starts.
It generates V+3R3E in IC4508 and start.

Reset of ERP UCOM (IC4502) is canceled in 12 pin "High".
ERP UCOM (IC4502) is initialized.

The POWER switch (S8401) is set to ON.

PWR_SW signal "Low" input to EUP UCOM (IC4502).

Judgment of Update mode

※ **Condition to become the update mode**
- When you press the predetermined key on ERP UCOM, and a power is turned on.
- When it judges that update was stopped of the product being completed last time.
  (Information during update remains in ERP UCOM.)

Update mode → ERP_WRITE (p6_4) and ERP_PNL_WRITE (p1_4) on ERP UCOM (IC4502) to "High". Each microcomputer (MAIN, MIXER, JOGLCD and PANELM) startup processing in update mode.

"Connect USB storage device into top USB1 port" indication.

Firmware updating starts.

ERP_WRITE (p6_4) and ERP_PNL_WRITE (p1_4) on ERP UCOM (IC4502) to "Low". Each microcomputer (MAIN, MIXER, JOGLCD and PANELM) startup processing in normal mode.

Reset signal "Low" of each microcomputer input from ERP UCOM (IC4502) and then, PWR_ON (P8_3) is "High" and SW POWER SUPPLY start.
All power ICs start generating power.

Power supply start to each microcomputer (MAIN, MIXER, JOGLCD, PANELM).

It start supply of 3MHz from CLKOUT (p5_7).
→ PANELM UCOM clock.

PANELM UCOM :

Reset of each microcomputer is canceled by ERP UCOM (IC4502).
SUBU_RST (p7_2) :
→ After inversion, It is connected to the reset terminal of PANELM, JOGLCD UCOM.
ERP_IMX_POR (p8_2) :
→ After inversion, It is connected to the reset terminal of MAIN, MIXER UCOM.

Each microcomputer startup.

Start of the power supply monitoring.

LED all light on.

LED all light on → Initial light on

MAIN UCOM : (IC701)	MIXER UCOM : (IC2302)	JOGLCD UCOM : (IC3002, IC3202)	PANELM UCOM : (IC4505)
It is developed the program by Flash ROM.			--
Initialization of the built-in / outskirts module.			
LED all light on. LCD start indication.	• DSP (IC2501) reset • Program download to DSP • DSP start	LED all light on. LCD start indication.	LED all light on. • X-PAD (IC3401) reset • First communication to X-PAD LED initial light on

Start of communication with MAIN UCOM.

Communication start between each microcomputer
MAIN ↔ ERP, MAIN ↔ JOGLCD, MAIN ↔ MIXER, MIXER ↔ PANELM

The audio mute cancellation request reception from MAIN UCOM. And then, It executes audio mute cancellation after waiting for two seconds.

It is audio mute cancellation request by initialization completion. (MAIN UCOM)

Start completion.

■ Monitoring of the power supply abnormality

Operation of the power supply monitoring   ERP UCOM (P8_4)

Does the abnormality of the power supply occur? — No

Yes ↓

It executes the mute of the audio.

Flashes LED of MASTER_REC in red.
It stops the SW POWERSUPPLY output with PWR_ON signal as "Low".

5.2 TROUBLESHOOTING

Before starting troubleshooting, confirm that all cable connectors are properly engaged.

Before replacing a microcomputer, confirm also the items shown below.

In a case where a failure of ERP UCOM (IC4502) is suspected

Confirm the voltage of ERP UCOM. And, confirm if the reset cancellation is performed normally.
UCOM Assy : V+3R3E (3.3 V)
　　　　　　　IC4502-12 pin (RST) : 3.3 V
If no problem, replace ERP UCOM.
If the voltage is abnormal, confirm the peripheral circuit of ERP UCOM.

Failure in startup and in the communication system

Failure in the power system

In the following diagnostic procedure, because power will be forcibly supplied even if any power circuit is abnormal, the defective point may produce heat and the circuit that uses the power supply may fail if power supply continues. Be sure to disconnect the AC power cord some seconds after it is connected during the diagnostic procedure so that the unit will not remain forcibly powered.

No startup after pushing the Power switch.

Before starting checking the power system, be sure to check if each power IC is short-circuited with GND, referring to "10.69 VOLTAGES."

Confirmation of power-failure detection — No short-circuit

Check the MASTER REC LED.

Light off → Check the voltage of FAULT-DET.

3.3 V → A type of abnormality that cannot be detected by the voltage monitoring circuit is suspected. Check if the voltage value is within the normal range, referring to "10.69 VOLTAGES".

0 V → Check if there is no problem in the connection wires between each boards. If no problem, check V+12E, V+5E and V+3E, and replace the defective parts.

Flashing in red

Disconnect the AC power cord from the product then remove R346 (0 Ω) from the MAIN Assy. Reconnect the AC power cord then set the Power switch to ON to monitor each power IC.
IMPORTANT: Because the voltage monitoring circuit is disabled, disconnect the AC power cord within several seconds.

→ Check the voltage at each block. Check the circuits or power ICs that use the power supply with abnormal voltage.

→ Reattach R346 (0 Ω) to the MAIN Assy. (For enabling the voltage-monitoring function) Replace the defective parts after checking that the product operates properly.

If the MASTER REC LED is flashing in red or the voltage of FAULT-DET is 0 V, it is recommended that the following circuits be confirmed first:
• Peripheral circuits of IC6605/6606 (V+18A/V-18A and V+7R5HP/V-7R5HP generation circuits)
• Q6603, Q6605, D6603, D6606, Q6602, Q6604, D6602, D6605

Failure in startup and in the communication system

Startup is not completed.

After the Power switch is set to ON, the startup procedure stops in mid-course, with the message "Connect USB storage device to top USB1 port" displayed on the LCD.

→ Perform updating of the firmware.

Startup has been completed properly. → Failure of previous updating of the firmware was the cause. (Power failure occurred during previous updating.)

Startup was not completed, or updating failed.

See the section on "Updating of the firmware does not start".

Startup is not completed.

After the Power switch is set to ON, the startup procedure stops in mid-course, with the message "PIONEER DJ rekordbox" displayed on the LCD.

→ Communication among MAIN UCOM (IC701) and MIXER UCOM (IC2302) on MAIN Assy, ERP UCOM (IC4502) and PANELM UCOM (IC4505) on UCOM Assy have not been established.
Check the connection between MAIN Assy and UCOM Assy.
If no problem, replace MAIN Assy.
If it still not improve, replace UCOM Assy.

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A

Updating not available

Updating of the firmware does not start.

When the unit is started in Update mode, does the indication on the LCD become that for Update mode?

No → Check the keys (switches) in the DCK1 Assy, using the diagnosis in Test mode or referring to "No operation with keys (switches)."
• USB1 STOP
• RELOOP/EXIT
If the keys (switches) function normally, the ERP UCOM (IC4502) may be in failure. Replace it.

Yes

Check if the updating notification circuit on the UCOM Assy is normal.
Check ERP_WRITE while displaying the update mode.

B

Is the voltage at Pin 34 of CN4502 (ERP_WRITE) 3.3 V?

No → Replace the IC4502 (ERP UCOM).

Yes

Check if data on the USB memory device have been read. See "Data of the device (USB memory device, hard disk, etc.) connected to the USB A connector cannot be read" in this flowchart.

USB function is normal. → MAIN UCOM (IC701) cannot recognize the updating status. Check connection between the MAIN Assy and UCOM Assy.
Check also the line connected to Pin 36 of CN105 (ERP_WRITE) on the MAIN Assy.
If no problem, MAIN UCOM (IC701) may be defective. Replace the MAIN Assy.

C

Updating not available

Updating of the firmware failed.
"Firmware update failed" is displayed.

Updating is not possible, because the program in the microcomputer is abnormal, the flash ROM, ERP UCOM or PANELM UCOM is in failure, or the communication line is in failure.
Check the LCD display during the update.

The updating status of the flash ROM (IC1102) in the MAIN Assy is displayed on the first line (MAIN).
The updating status of the ERP UCOM (IC4502) and PANELM UCOM (IC4505) in the UCOM Assy is displayed on the second line (ERP/SUB).
The updating status of the flash ROM (IC2302) in the MAIN Assy is displayed on the third line (MIXER).
The updating status of the flash ROM (IC3003/IC3203) in the JLCD1/JLCD2 Assy is displayed on the fourth and the fifth lines (JOGL/JOGR).

If the progress of a status bar is stopped in mid-course, rewriting of the corresponding ROM or microcomputer failed.

D

Rewriting of which one failed, the flash ROM or microcomputer?

Flash ROM → Check the connection of the periphery of the corresponding flash ROM. If no problem, replace the MAIN Assy.

E

ERP UCOM/PANELM UCOM → Check the connection between MAIN Assy and UCOM Assy. If no problems are found in peripheral circuits, connectors, or cables, replace ERP UCOM (IC4502) and PANELM UCOM (IC4505).

F

Confirmation of the USB A connector

Data from the device (USB memory device, hard disk, etc.) connected to the USB A connector cannot be read.

Check if the USB device is normal.
Note that a USB device that requires electric current higher than 1000 mA according to its specifications must not be used.
To such a USB device, USB power supply will be stopped by the protection circuit. Check the voltages at the following points with the USB device plugged in:
• MAIN Assy: Pin 8 of IC1803 (USB1_FAULT)
• MAIN Assy: Pin 8 of IC1804 (USB2_FAULT)

Confirmation of USB power

Is the voltage at USBA1/USBA2_OCS 3.3 V?

No → USB power supply has been stopped by activation of the protection circuit.
Check the voltage at USBA1/USBA2_OCS after the USB device is unplugged.

Yes

Is the voltage at USBA1/USBA2_OCS 3.3 V?

Yes → The USB device is in failure or consumes electric current higher than 1000 mA. Replace the USB device.

No

Is the voltage at USB1/USB2_EN 3.3 V?

3.3 V → Check the peripheral circuits of IC1803/IC1804. If no problem, replace the MAIN Assy.

0 V

Check the power supply to the USB A connector.
• USBA Assy:
  Pin 1, 2 of CN4301/CN4302
• MAIN Assy:
  Pin 1, 2 of CN1801/CN1802
Check if the voltage is 5 V ± 0.25.

Is the voltage at each point normal?

No → Check that 12 V is supplied to Pin 2 of IC1801/IC1802 and that no abnormality is found in their peripheral circuits. Check the connection between the USBA Assy and MAIN Assy.
If no problem in the above checks, power IC (IC1801/IC1802) in the MAIN Assy may be in failure. Replace the MAIN Assy.

Yes

Check the USB communication line.
• MAIN Assy:
  USBDN1_N/P, USBDN2_N/P
If no problem in the above checks, replace the MAIN Assy.

Confirmation of the USB B connector

This unit cannot be recognized or controlled by the PC/Mac that is connected via the USB B connector.

Does this unit operate properly on its own when it is not controlled via the USB B connector?

No → See the section on errors in the operating elements and LEDs.

Yes

Check that the driver for the main unit has been installed on the PC/Mac.

Is the main unit recognized by the PC/Mac?

No → The periphery circuits of USB HUB IC (IC2002) or MIXER UCOM (IC2302) USB communication line in the MAIN Assy may be in failure. Check the power supply to each IC. If no problem, replace the MAIN Assy.

Yes → Check and correct the settings of the application used on the PC/Mac. (This unit operates properly.)

A

Confirmation of LAN
Confirm with peripheral device connected.

Connection between this unit and another device via LAN is not possible. (This unit cannot be recognized by rekordbox.)

Is the device to be connected PC/Mac or CDJ player? → PC/Mac → Is PC/Mac connected to EXTENSION terminal of the main unit? → No → PC/Mac is connected to EXTENSION terminal of the main unit.

↓ CDJ player

↓ Yes

B

Is CDJ player connected to CH3/CH4 terminals of the main unit? → Yes

Is the main unit connected to the device via LAN possible? → No

↓ No

CDJ player is connected to CH3/CH4 terminals of the main unit.

Is the main unit connected to the device via LAN possible?

↓ No

Check that the LAN settings of the main unit, PC/Mac and CDJ Player are correct.
If rekordbox is not running, it can not connect via LAN.
Check LAN HUB IC (IC2151), the peripheral circuits of MAIN UCOM (IC701) and the power supply. If no problem, replace the MAIN Assy.

C

Confirmation of Browse LCD backlight

The Browse LCD backlight does not light on. → Is the voltage of BL_A normal? (Refer to "10.69 VOLTAGES") → Normal → Replace the LCD module.

↓ Abnormal

Replace the MAIN Assy.

D

Confirmation of Browse LCD

Browse LCD is not displayed.
Browse LCD display is not normally. → Is it operating normally except the LCD? (Light on/off LED, recognize USB or not etc...) → No → See the section on "Startup is not completed" when other than LCD is not working properly.

↓ Yes

See the section on "Confirmation of LCD backlight".
Check power supply to the LCD module.
Check the voltage at Pins 3, 4, 5 and 21 of CN3603 in the LCDB Assy, referring to "10.69 VOLTAGES."

E

Is the voltage at each block normal? → No → Check it with removing the LCD module. If the voltage changes normal, replace the LCD module. If not improve, replace LCDB Assy.

↓ Yes

Replace MAIN Assy.
If the problem is not improve, replace LCDB Assy. If it still not improve, replace LCD module.

F

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A

Confirmation of JOG LCD backlight

The JOG LCD backlight does not light on. → Check the voltage at Pin 2 of CN4503 and at Pin 26 of CN4515 in the UCOM Assy, referring to "10.69 VOLTAGES".

Is the voltage normal? —No→ Check the connection with MAIN Assy and UCOM Assy, and the peripheral circuits of IC502. If not improve, replace MAIN Assy.

↓Yes

Replace JOG LCD module and JLCD1/2 Assy.

B

Confirmation of JOG LCD

The JOG LCD backlight does not light on. → Is it operating normally except the LCD? (Light on/off LED, recognize USB or not etc...) —No→ See the section on "Startup is not completed" when other than LCD is not working properly.

↓Yes

Check the power supply of the JOG LCD module. Check the voltage at Pin 9 of CN4503 and at Pin 22 of CN4515 in the UCOM Assy, referring to "10.69 VOLTAGES".

↓Yes

C

Is the voltage at each block normal? —No→ Check it with removing the JOG LCD module. If the voltage changes normal, replace the JOG LCD module. If not improve, replace JLCD1/2 Assy.

↓Yes

Replace JLCD1/2 Assy.
If not improve, replace the JOG LCD module.

D

Confirmation of the Touch panel

Touch panel does not react.
Touch position of the Touch panel shifts. → Confirm Touch panel in Test mode. When it can not be performed normally or check in Test mode in case of NG, make the following confirmation. When operating the Touch panel, check whether the waveform of Pins 1 to 4 of CN3604 in LCDB Assy.

Does the waveform change? —No→

↓Yes

Check the communication route of TPNL_XINT, TPNL_SCL/SDA (IC3606 → IC701). Refer to "10. 70 WAVEFORMS" ②.

E

Will the waveform be output when operating the touch panel? —Yes→ As a problem in the Touch panel is suspected, replace the Touch panel.

↓No

Replace LCDB Assy.
If not improve, replace the MAIN Assy.

F

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25

Trouble with the operating elements or LEDs

[Confirmation work in advance]
Confirm whether LED / operation is OK.
Please refer to "6.1 TEST MODE" and confirm whether there are problems with LEDs/elements.
If there is a problem, please repair the defective part. (See "Display trouble", "Operation trouble".)
When making a diagnosis, refer also to "4.5 MATRIX INFORMATION" for diagnosis.

Some of the matrix keys (SW) do not function, and some of the LEDs cannot light on.

→

Make sure that keys and LEDs that do not work are using the same GRID in the schematic diagram.

↓

Is the same grid used?

Yes →

Check the corresponding grid, referring to "4.5 MATRIX INFORMATION".
If no grid
waveform signal is output from the shift register IC, check the communication line with the microcomputer first, then check if the grid line is short-circuited with GND, caused by a failure in a key, LED, or the transistor for the drive.
Also check the connection of the grid line. If no problem, replace the shift register IC:
• MIXER block is in failure
   MIXER Assy: Replace IC7004
• CDJ block is in failure
   DCK1 Assy: Replace IC8102
   DCK2 Assy: Replace IC9003
• If Master level indicator LEDs do not light on
   DCK2 Assy: Replace IC9003 and IC9004
• If CH level indicator LEDs do nor light on
   MIXER Assy: Replace IC7004, IC7005 and IC7006

No

See "No operation with keys (switches), No operation with slide switches" or "The LEDs do not light."

No operation with keys (switches), No operation with slide switches.

→

Which key is not working either direct key or matrix key?

Direct key →

Check that current is conducted between the terminals of the switch when it is pressed. If current is not conducted, replace the switch. Check the line between the switch and the microcomputer. If the line is OK, replace the microcomputer to which the switch is connected, as follows:
• ERP UCOM
   UCOM Assy: Replace IC4502
• PANELM UCOM
   UCOM Assy: Replace IC4505
• MAIN UCOM
   Replace MAIN Assy
• JLCD1/JLCD2 Assy
   Replace IC3002/IC3202

Matrix key

Check the transistors on the line that is connected to the microcomputer port and waveforms and connections of the line. If no problem, replace the microcomputer, as follows:
• ERP UCOM
   UCOM Assy: Replace IC4502
• PANELM UCOM
   UCOM Assy: Replace IC4505
• MIXER UCOM
   MAIN Assy: Replace IC2302

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A

The rotary VRs are inoperable.
The rotary selector is inoperable.

Rotary selector:
Rotary selector, BEAT FX, BEAT FX CH, TIME

Is it a rotation operation that does not work?

No → When push operation does not work, see "No operation with keys (switches), No operation with slide switches."

Yes

B

Check that the resistance value of the line that is connected to ground and the microcomputer changes in accordance with turning of the VR. Check the connection line between the microcomputer and the VR. If no problem, replace the microcomputers to which the VR is connected, as follows:
• MAIN UCOM
　Replace MAIN Assy
• ERP UCOM
　UCOM Assy: Replace IC4502
• PANELM UCOM
　UCOM Assy: Replace IC4505

C

JOG dial does not work.

Is it not a rotation operation or a touch operation?

Rotation → Check whether normal waveform is input to the microcomputer referring to "10.70 WAVEFORMS ①".
If normal waveform can not be confirmed, replace it because it is probable that the photo interrupter (PC9601/PC9701) is defective. If no problem, replace the microcomputer.
　DCK1 JOG control: IC3002
　DCK2 JOG control: IC3202

Touch

Does the Pins 1 of CN3003 /CN3203 (JOG_SW) become 0 V when touching JOG?

No → When push operation does not work, see "No operation with keys (switches), No operation with slide switches."

Yes

The control microcomputer may be in failure, replace it.
　DCK1 side: IC3002
　DCK2 side: IC3202

D

The slide VRs are inoperable.
TEMPO slider, Channel fader, Crossfader

Check if the voltage of the signal line changes between 0 V and 3.3 V around 1.65 V. If it has defective, replace the parts. If not improve, check the parts on the signal line.
If no problem, replace the microcomputer.
• MAIN Assy: IC2302

E

F

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The LEDs do not light on. → Find the abnormal part in Test mode.

Is there more than one abnormal part? — Yes

No

Is the abnormal part direct LED? — No → Replace the LED of the abnormal part.

Yes

Confirm the LED connection with the microcomputer (IC4502/IC4503/IC701/IC3002/IC3202) controlling the LED, and replace the parts if there is any abnormality.
If no problem, replace the LED of the abnormal part.

Check the corresponding grid, referring to "4.5 MATRIX INFORMATION". And, check the connection with the shift register or microcomputer that controls the defective GRID. If no problem, replace the shift register or microcomputer.
• DCK1 Assy: Replace IC8102
• DCK2 Assy:
  Replace IC9005, IC9003, IC9004
• MIXER Assy:
  Replace IC7004, IC7005, IC7006
• PAD1/PAD2 Assy:
  Replace IC4502, IC3901/IC4101,
  IC3902/IC4102
• LCDB Assy:
  Replace MAIN Assy

Do no LEDs connected to the same grid light on? — Yes

No

Do no LEDs controlled of the same segment signals light on? — No → Replace the LED of the abnormal part.

Yes

Is the segment signal normal? — No → Check the LED connection with the microcomputer (IC4502/IC4503/IC701/IC3002/IC3202) controlling the LED.
If no problem, then replace the microcomputer.

Yes

Replace the LED of the abnormal part.

Trouble in the audio system

[Confirmation work in advance]
① It discriminates defective area in the input and output
　　Refer to "5.3 SIMPLIFIED DIAGNOSTIC PROCEDURE FOR AUDIO SIGNAL", divide which of input and output has defects.
　　If all signal has defect, it has the defect on the power of audio, the clock of audio or the circuit near DSP.

② It confirms whether there is a problem with the display or the operation.
　　Refer to "6.1 TEST MODE", it confirms whether there is a problem with the display or the operation.
　　If it has defect, repair the defective area. (Refer to flowchart about "Display trouble", "Operation trouble".)

[1] Error in output section

```
┌──────────────────────────────┐        ┌──────────────────────────────────┐
│ No sound outputs from         │───────▶│ Input the audio signal to the     │
│ MASTER1/2.                    │        │ input terminal.                   │
└──────────────────────────────┘        │ Or, playback via USB terminals.   │
                                         └──────────────────────────────────┘
```

No ◀─── Is signal output from neither MASTER1 nor MASTER2?
↓ Yes

No ◀─── Is MAS_MUTE "H" (12 V)?
↓ Yes

Is MAS_VR_MUTE "H" (3.3 V)? ──Yes──▶ Muting is activated. The MUTE circuit in the AUDIO Assy is in failure. Replace the AUDIO Assy.
↓ No

Check the periphery of Q6901/Q6904. If no problem, replace the Q6901/Q6904. If not improve, replace the AUDIO Assy.

Yes ◀─── Are there audio signals at Pins 32, 33, 36, 37 (R-, R +, L-, L +) of IC5802 of AUDIO Assy?
↓ No

Are there audio signals at Pin 6 (ADAT_M) of IC5802 of AUDIO Assy? ──No──▶ No data is input to the DAC (IC5802). Check the connection between DSP (IC2501) and DAC (IC5802). If no problem, replace the MAIN Assy.
↓ Yes

The MASTER DAC (IC5802) is in failure. Replace MASTER DAC (IC5802). If not improve, replace the AUDIO Assy.

Is the audio signal interrupted around the muting transistors in the AUDIO Assy? ──Yes──▶ The muting transistors in the AUDIO Assy are defective, which disables audio signal output. Check the periphery of the muting transistors. If no problem, then the muting transistors must be replaced.
• AUDIO Assy:
　Replace Q6014, Q6015, Q6016, Q6017
↓ No

Check for a point in the AUDIO Assy where the audio signal is interrupted.
• If only MASTER 1 has no audio signal output, check the periphery of IC4507/ IC4508. If no problem, then the OP amplifiers must be replaced.
　AUDIO Assy: Replace IC6001, IC6002
• If only MASTER2 has no audio signal output, check the periphery of IC6003, the capacitor or resistor is damaged or if any circuit is open. If not improve, replace AUDIO Assy.

A

No sound outputs from BOOTH.

→ Input the audio signal to the input terminal.
Or, playback via USB terminals.

↓

Is A_MUTE "H" (12 V)?

— Yes → Muting is activated. The MUTE circuit in the AUDIO Assy is in failure. Replace the AUDIO Assy.

No ↓

Are there audio signals at Pins 24, 25, 28, 29 (R-, R +, L-, L +) of IC5802 of the AUDIO Assy?

— Yes →

No ↓

B

Are there audio signals at Pin 5 (ADAT_B) of IC5802 of the AUDIO Assy?

— Yes → The MASTER DAC (IC5802) is in failure. Replace MASTER DAC (IC5802). If not improve, replace the AUDIO Assy.

No ↓

No data is input to the DAC (IC5802). Check the connection between DSP (IC2501) and DAC (IC5802). If no problem, replace the MAIN Assy.

↓

C

Is the audio signal interrupted around the muting transistors in the AUDIO Assy?

— Yes → The muting transistors in the AUDIO Assy are defective, which disables audio signal output. Check the periphery of the muting transistors. If no problem, then the muting transistors must be replaced.
• AUDIO Assy: Repace Q6201-Q6208

No ↓

Check for a point in the AUDIO Assy where the audio signal is interrupted. And, replace it. If not improve, replace AUDIO Assy.

D

No sound outputs from SEND.

→ Input the audio signal to the input terminal.
Or, playback via USB terminals.
Set the Beat FX channel setting to the playback channel.

↓

Is A_MUTE "H" (12 V)?

— Yes → Muting is activated. The MUTE circuit in the AUDIO Assy is in failure. Replace the AUDIO Assy.

No ↓

Are there audio signals at Pins 38, 39, 42, 43 (R-, R +, L-, L +) of IC5802 of the AUDIO Assy?

— Yes →

No ↓

E

Are there audio signals at Pin 7 (ADAT_S) of IC5802 of AUDIO Assy?

— Yes → The MASTER DAC (IC5802) is in failure. Replace MASTER DAC (IC5802). If not improved, replace the AUDIO Assy.

No ↓

No data is input to the DAC (IC5802). Check the connection between DSP (IC2501) and DAC (IC5802). If no problem, replace the MAIN Assy.

↓

Is the audio signal interrupted around the muting transistors in the AUDIO Assy?

— Yes → The muting transistors in the AUDIO Assy are defective, which disables audio signal output. Check the periphery of the muting transistors. If no problem, then the muting transistors must be replaced.
• AUDIO Assy: Replace Q6401, Q6402

No ↓

F

Check for a point in the AUDIO Assy where the audio signal is interrupted. And, replace it. If not improved, replace AUDIO Assy.

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No sound outputs from HP.

Input the audio signals to the input terminal.
Or, playback via USB terminals.
Set CUE of the playing channel to ON.

Is A_MUTE
"H" (12 V)?

Yes → Muting is activated. The MUTE circuit in the AUDIO Assy is in failure.
Replace the AUDIO Assy.

No

Are there audio signals at
Pins 10, 11 of IC5801
of AUDIO Assy?

Yes →

No

Are there audio signals at
Pin 3 (ADAT_HP) of IC5801
of AUDIO Assy?

Yes → The MASTER DAC (IC5802) is in failure.
Replace MASTER DAC (IC5802).
If not improve, replace the AUDIO Assy.

No

No data is input to the MASTER DAC (IC5802).
Check the connection between DSP (IC2501)
and HP DAC (IC5801).
If no problem, replace the MAIN Assy.

Is the audio signal
interrupted around the muting
transistors in the AUDIO Assy?

Yes → The mute transistors on the AUDIO Assy are defective, so audio signals are not output.
• AUDIO Assy: Replace Q6405-Q6408
• HPJK Assy: Replace Q7701, Q7702

No

Check Pins 1 and 4 of CN7701 in the HPJK
Assy. If no waveform, check the connection
cable. If no problem, the audio circuit in the
AUDIO Assy may be in failure. Replace the
AUDIO Assy. If the waveform is detected,
replace the HPJK Assy.

B

C

D

E

F

XDJ-XZ

[2] Error in iuput section

```
No sound inputs from LINE/PHONO.  →  Input the audio signal to the input terminal.
```

```
Is switching among PC, LINE
and PHONO possible?        ── No →  See "No operation with keys (switches)."
(Check in Test mode)
        │
       Yes
        ↓
Do the CH level
indicators right on?       ── Yes →  The LINE/PHONO input circuits are normal.
                                     See also "No sound outputs from MASTER."
        │                            and "No sound outputs from HP."
       No                            If not improve, the AUDIO Assy may be in
        ↓                            failure. Replace it.
```

Check the audio signals from Pin 9 of IC5204 and Pin 9 of IC5404. If there are its, no audio signals input for DSP (IC2501). Check the connection between ADC (IC5204/IC5404) and DSP (IC2501). If no problem, replace MAIN Assy.
If not improve, or if no audio signal output from Pin 9, check the next flow.

```
Is a waveform
detected at Pins 1, 2 of IC5204    ── Yes →  ADC (IC5204, IC5404) is in failure.
and at Pins 1, 2 of IC5404?                  Replace ADC (IC5204, IC5404).
        │
       No
        ↓
```

Check where the signal is interrupted.
• Ch3 side : Check the periphery of IC5202 and IC5203. If no problem, replace the Ope amplifier.
  AUDIO Assy: Replace IC5202, IC5203
• Ch4 side : Check the periphery of IC5402 and IC5403. If no problem, replace the Ope amplifier.
  AUDIO Assy: Replace IC5402, IC5403
If not improve, replace AUDIO Assy.

```
No sound inputs from AUX.  →  Input the audio signal to the input terminal.
```

```
Is switching ON/OFF
of AUX possible?           ── No →  See "No operation with keys (switches)."
(Check in Test mode)
        │
       Yes
        ↓
Do the MASTER level
indicators right on?       ── Yes →  The AUX input circuit is normal.
                                     See also "No sound outputs from MASTER."
        │                            and "No sound outputs from HP."
       No                            If not improve, the AUDIO Assy may be in
        ↓                            failure. Replace AUDIO Assy.
```

Check the audio signals from Pin 9 of IC5603. And, check the connection between AUX ADC (IC5603) and DSP (IC2501). If no problem, replace MAIN Assy.
If not improve, or if no audio signals output from Pin 9, check the next flow.

```
Is a waveform
detected at AUX ADC        ── Yes →  ADC (IC5603) is in failure.
(Pins 1, 2 of IC5603)?               Replace ADC (IC5603).
        │                            If not improve, replace AUDIO Assy.
       No
        ↓
```

Check where the signal is interrupted.
Check the periphery of IC5601 and IC5602.
If no problem, replace the Ope amplifier.
• AUDIO Assy: Replace IC5601, IC5602
If not improve, the AUDIO Assy may be in failure. Replace AUDIO Assy.

A

No sound inputs from MIC. → Input the audio signal to the input terminal.

Is switching ON/OFF of MIC possible? (Check in test mode) — No → See "No operation with keys (switches)."

Yes

Do the MASTER level indicators light on? — Yes → The MIC input circuit is normal. See also "No sound outputs from MASTER." and "No sound outputs from HP." If not improve, the AUDIO Assy may be in failure. Replace AUDIO Assy.

B

No

Check the audio signals from Pin 9 of IC5604. And, check the connection between MIC ADC (IC5604) and DSP (IC2501). If no problem, replace MAIN Assy. If not improve, or if no audio signals output from Pin 9, check the next flow.

Is a waveform detected at Pins 1, 2 of IC5604? — Yes → ADC (IC5603) is in failure. Replace ADC (IC5603). If not improve, replace AUDIO Assy.

C

No

Is a waveform detected at Pins 6, 8 of CN5601 in the AUDIO Assy? — Yes → Check where the signal is interrupted between CN5601 and IC5604. If no problem, replace AUDIO Assy.

No

Check the connection between MCIN Assy and AUDIO Assy. And, check it between MCIN Assy and MCTR Assy. Check the periphery of the Ope amplifier (IC7601, IC7602). If no problem, replace the Ope amplifier.
• MCIN Assy: Replace IC7601, IC7602
If not improve, replace MCIN Assy. If it still does not improve, replace AUDIO Assy.

D

E

F

5.3 SIMPLIFIED DIAGNOSTIC PROCEDURE FOR AUDIO SIGNAL

A MAIN ASSY

E USBA ASSY

| USBA1 / USBA2 | → | IC1805 USBA HUB TUSB4020BIPHP | → | IC701 MAIN UCOM (I.MX) MCIMX6Q6AVT10AD |

| USBB | → | IC2002 USBB HUB TUSB4041IPAP | → | IC2302 MIXER UCOM R5S72690W266FP |

IC2501
DSP
D810K013DZKB400

MASTER DAC
→ MASTER1
→ MASTER2
→ BOOTH
→ SEND

HP DAC

B AUDIO ASSY

CH3 LINE/PHONO → ADC
CH4 LINE/PHONO → ADC
AUX → ADC
MIC1 / MIC2 → ADC

C MCIN ASSY

F HPJK ASSY
→ HP
→ HP MINI

Possible defective locations when both phenomena
can be confirmed (Input section is abnormal)

Possible defective locations when either phenomenon or neither
phenomena can be confirmed (Output section is abnormal)

XDJ-XZ

5.4 VOLTAGE MONITORING CIRCUIT

■ Voltage-Monitoring

This unit monitors the voltages of the main power-supply ICs, using the F_DET (FAULT_DET) signal.
The F_DET signal level is high (+3.3 V) during normal operations. When the level becomes low (0 V), detect abnormality in the ERP UCOM (IC4502).

■ Product behavior when an error is generated

If power failure is detected with the F_DET signal (F-DET signal consists with the interval Low levels more than 50 ms), the ERP UCOM will stop supplying the V+12D/V+12L/V+12A power from SW POWER SUPPLY, setting the PWR_ON signal to low.
The ERP UCOM also informs of power failure with flashing of the MASTER REC (WAKE UP) (red LED) button, by sending the WAKEUP_LED signal:
As the V+12D/V+12L/V+12A power is stopped, the indications other than the MASTER REC (WAKE UP) are unlit and all the switches and VRs are disabled. When you let you return from a power supply abnormality detection state, perform drawing and inserting of the power cord.

■ Diagnostic procedure

Note: Each time before turning the unit ON, make sure that each power-supply IC is not short-circuited to GND.
If any voltage is abnormal, that error will be detected by the voltage-monitoring program after it is started after a usual startup of the unit. Then the V+12D/V+12L/V+12A power from SW POWER SUPPLY will be stopped.
Identify which power-supply IC is defective, by duplicate drawing and inserting of the power cord while monitoring each voltage with an oscilloscope. Check the value of each voltage immediately before stopping power supply.

■ Voltage-Monitoring Circuit Block diagram
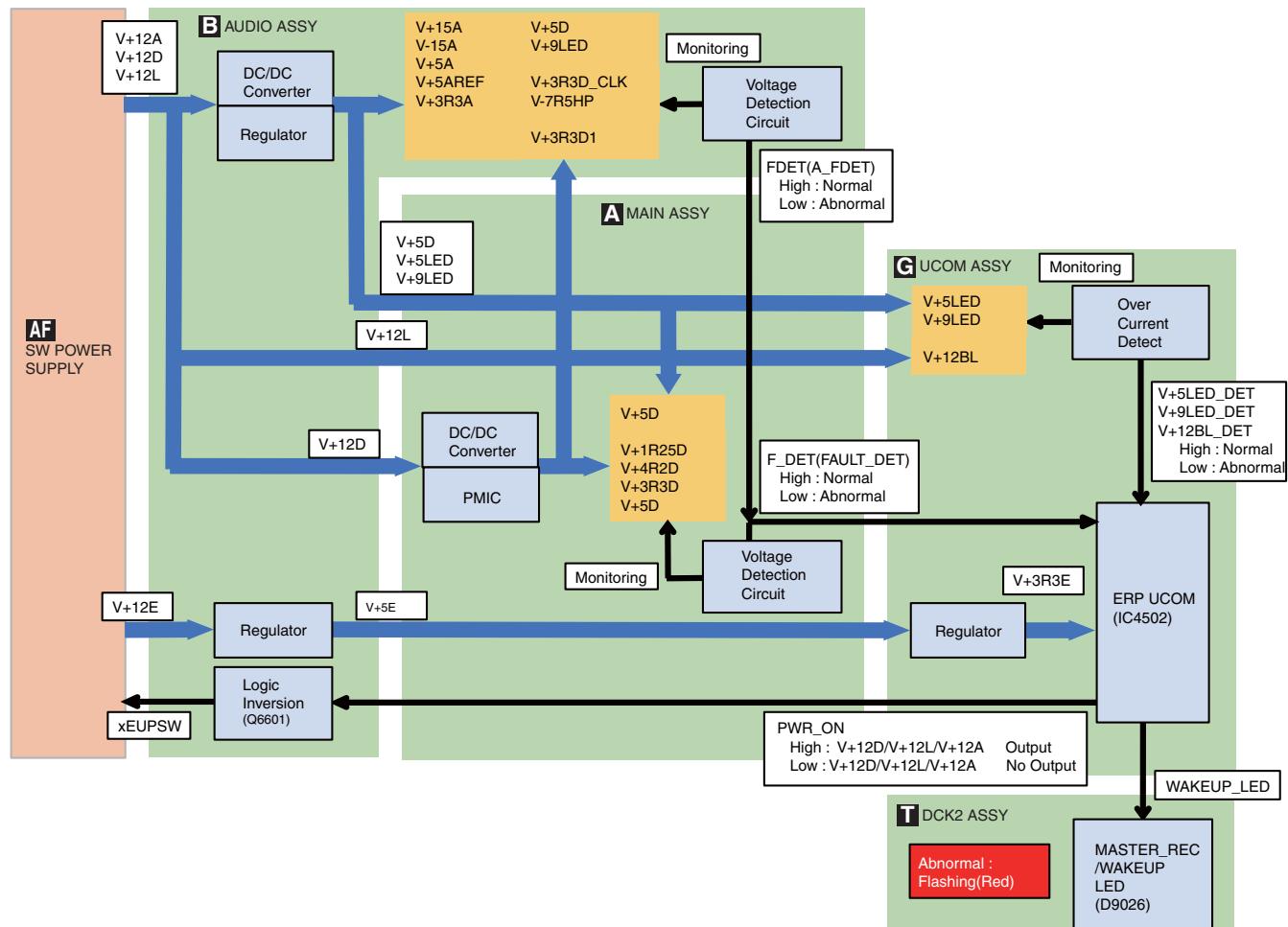
A

■ Voltage-Monitoring Circuit diagram

B AUDIO ASSY

```
VOLTAGE DETECTION CIRCUIT
```

FDET

B

C

A MAIN ASSY

```
VOLTAGE DETECTION CIRCUIT
```

D

typ 5.29V

typ 5.29V

E

F_DET	
H	Normal
L	Power failure

F

G UCOM ASSY

Over Current Detect

15W DETECT SW

0.25Ω / Detect : 2.4A (13.3W)   0.41Ω / Detect : 1.5A (13.7W)   0.67Ω / Detect : 0.9A (11.9W)

● 2:3B/3:3E,8D/   V+5LED_O   ● 2:14I,14D,2B,3I,3B,9B/   V+9LED_O   ● 2:14D,2A/   V+12BL_O

R4697
R4701
R4698 R4702
R4699 R4703
R4700 R4704

2:10J V+5LED

R4716 3.3
R4720 3.3
R4717 3.3 R4721 3.3
R4718 3.3 R4722 3.3
R4719 3.3 R4723 3.3

2:10J V+9LED

R4750
R4752
R4751 R4753
NM

2:9J V+12BL

R4707

R4729

R4763

R4695 4.7k
0.1u/10 C4645
LSAR523UB Q4505

Q4506 LTC024EEB

V+5LED_DET 1:7I

R4714 4.7k
0.1u/10 C4655
LSAR523UB Q4507

Q4508 LTC024EEB

V+9LED_DET 1:7I

R4748 4.7k
C4678 0.1u/10
LSAR523UB Q4509

Q4510 LTC024EEB

V+12BL_DET 1:7I

GNDD_LED   GNDD_LED   GNDD_LED

ERP UCOM

IC4502
R5F364AENFA-U0

P5_4 42
P5_5 41
P5_6 40
CLKOUT 39
P6_0 38
CLK0 37
RXD0 36
TXD0 35
P6_4 34
CLK1 33
32
31

SCLK TP4508
MOSI TP4509
MISO TP4510

P6_6
TXD1/SDA1

TXD5/SDA5

2:7I V+3R3

RESET# XOUT VSS XIN VCC1 NMI# P8_4 P8_3 P8_2 P8_1 P8_0 CLK5 TXD5/SDA5 P7_5 P7_4 P7_3 P7_2 P7_1 P7_0

TP4506 TP4507

JOGUCOM

R4546

R4549 1M

C4540 10p/50 C4545 12p/50
X4501

BSS1146

16MHz

PADGRID2 2:13I
PADGRID1 2:13I
PADGRID0 2:13I
PAD1_SI0 2:13G
PAD1_SCLK0 2:13G
PAD_xG 2:13G
PAD_RCK 2:13G

ERP_IMX_POE 2:4J
PWR_ON 2:9J
R4561 FAULT_DET 2:9J
R4562 V+5LED_DET 2:5I
R4563 V+12BL_DET 2:9I
R4564 V+9LED_DET 2:7I

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

Power	Monitoring target	Detection value		Monitoring circuit
		Low	High	
V+15A	Voltage decrease	12.13 V	–	AUDIO Assy
V-15A	Voltage limit	–	-8.76 V	
V+5A	Voltage decrease/Voltage limit	4.08 V	7.93 V	
V+5AREF	Voltage decrease/Voltage limit	3.70 V	7.76 V	
V+3R3A	Voltage limit	–	4.24 V	
V+5D	Voltage limit	–	6.55 V	
V+9LED	Voltage decrease/Voltage limit	6.65 V	10.98 V	
V+3R3D_CLK	Voltage decrease/Voltage limit	2.35 V	5.67 V	
V-7R5HP	Voltage limit	–	-3.25 V	
V+3R3D1	Voltage decrease/Voltage limit	1.67 V	3.91 V	
V+5D	Voltage decrease/Voltage limit	1.67 V	3.91 V	MAIN Assy
V+1R25D	Voltage decrease/Voltage limit	0.70 V	3.30 V	
V+4R2D	Voltage limit	–	5.16 V	
V+3R3D	Voltage decrease	2.31 V	–	
V+5LED	current limit	–	2.4 A	UCOM Assy
V+9LED	current limit	–	1.5 A	
V+12BL	current limit	–	0.9 A	

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5.5 ERROR DISPLAY

Error code	Display word	Contents	Remarks
E-7020	USB-B DEVICE ERROR	USB-B controller does not work normally.	
E-7206	AUTH CHIP ERROR	Apple authentication chip does not work normally.	
E-8302	CANNOT PLAY TRACK	Abnormalities occurred during playback.	
E-8304	UNSUPPORTED FILE FORMAT	Decoding error occurred.	
E-8305	UNSUPPORTED FILE FORMAT	This format is not supported.	
E-8306	NO FILE	The registered file does not exist.	
E-8307	• DEVICE NO RESPONSE. • UNSUPPORTED DEVICE. • HUBS ARE NOT SUPPORTED.	• Device no response. • Unsupported device. • Hubs are not supported.	USB ACCESS ERROR An unsupported USB device is connected. Either of the three error types will be displayed.
E-8309	LINK ACCESS ERROR	Link access failed due to timeout errors.	
E-8709	COMMUNICATION ERROR	Cannot communicate with the Display microcomputer.	

XDJ-XZ

6. SERVICE MODE
6.1 TEST MODE

Description of Test Modes

The Following seven test modes are provided for this unit:
① Mode 1 :   Confirmation of the versions, destination (language), MAC address, Serial number, Update port check
                   and Operation check
② Mode 2 :   All LEDs and LCDs light off
③ Mode 3 :   All LEDs and LCDs light on
④ Mode 4 :   LCD patterns (Main display, Jog display)
⑤ Mode 5 :   Confirmation of individual keys and LEDs
⑥ Mode 6 :   Confirmation of individual switches, MIC LEDs and PAD LEDs
⑦ Mode 7 :   Confirmation of the values of the rotary variable controls and sliders
⑧ Mode 8 :   X-PAD test
⑧ Mode 9 :   Touch display test
⑩ Mode 10 : Rotary selector

■ How to Enter Test Mode

While holding the DECK 1 MEMORY and DECK 1 TEMPO buttons pressed, press the ⏻ switch to turn the unit on.
(Be sure to hold the u switch pressed until the unit starts up.)
Start up the unit in Mode 1 of Test mode.

■ How to Change Test Modes

To change Test modes, turn the Rotary selector clockwise or counterclockwise.
To shift from Mode 10 to Mode 1 or from Mode 1 to Mode 10, press the Rotary selector.
Then, Test modes can be changed again with a turn of the Rotary selector.

Mode 1 ↔ Mode 2 ↔ Mode 3 ↔ Mode 4 ↔ Mode 5 ↔ Mode 6 ↔ Mode 7 ↔ Mode 8 ↔ Mode 9 ↔ Mode 10

⏻ switch   Rotary selector

MEMORY button

TEMPO button
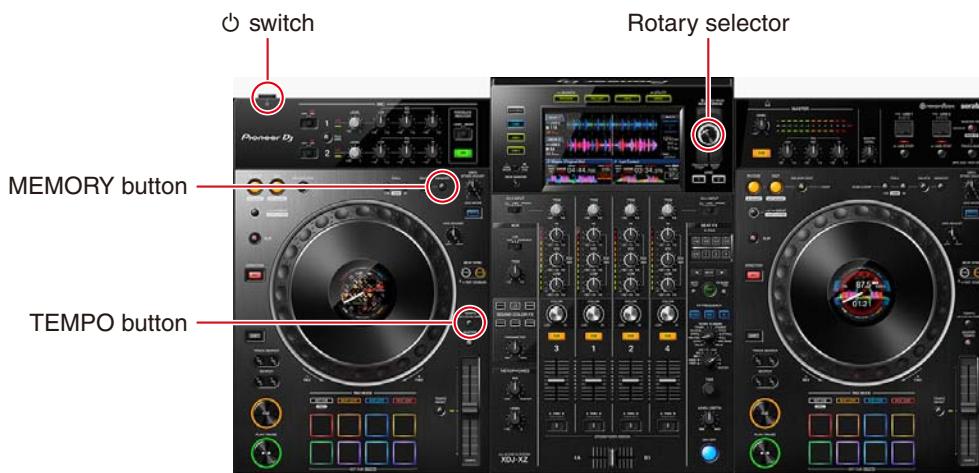
Test mode Contents

① Mode 1: Confirmation of the versions, destination (language), MAC address, Serial number, Update port check and Operation check

● **Update port check**
- "Checking" is displayed during the checking process.
- "OK" is displayed when checking all ports is successfully finished.
  If there is a problem, "NG" and the port with the problem is shown.
- Check port
  ERP_CONT, ERP_REQ, ERP_WRITE
  PNL_CONT, EPNL_REQ, PNL_SC1
  SW_PNL_SCLK, SW_PNL_MISO, SW_PNL_MOSI
- Switching is disabled if the status is "NG" or "Checking".
  Press MENU button to return to normal operation.

● **Operation Check**
- "END" is displayed when all the checks of Mode 5 to Mode 10 are completed.
- "END" is displayed until exiting the Test Mode. After exiting the Test Mode, it is no longer displayed.

```
VERSION INFORMATION
    SYSTEM              Ver.1.00      MIXER          Ver.1.00
    ERP                 Ver.1.00      DSP            Ver.1.00
    PANEL M             Ver.1.00      APL            Rev.2000
    JOG LCD(DECK1)      Ver.1.00      KERNEL         Rev.2001
    JOG LCD(DECK2)      Ver.1.00      XPAD           Ver.1.00
    LANGUAGE            ENGLISH
    MAC_ADDR            00:00:00:00:00:00
    MAC_ADDR(LAN)       00:00:00:00:00:00
    SERIAL              000000000000
    UPDATE PORT         OK
    OPERATION CHECK     END
```

② Mode 2: All LEDs and LCDs light off

- LED and LCD light off or light on dimly.

Main display and Jog display

```
DISPLAY OFF



```
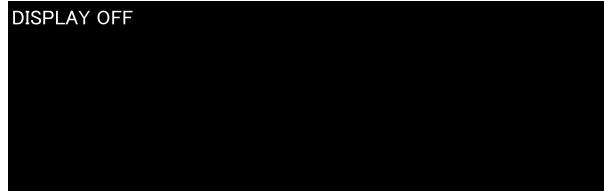
- The following 8 items cannot be light off completely because they are light on dimly by hardware.
  rekordbox, LINK, USB1, USB2, BROWSE (SEARCH), TAGLIST, INFO, MENU (UTILITY)

③ Mode 3: All LEDs and LCDs light on (Background: white)

Main display and Jog display
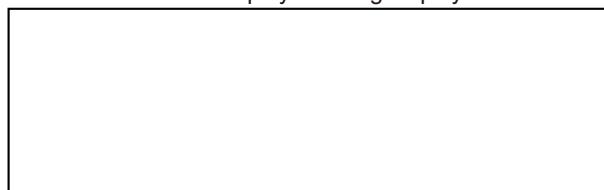
④ Mode 4: LCD patterns (Main display, Jog display)

- Press the Rotary selector to change color pattern (Yellow, Light blue, Green, Pink, Red, Blue) → black → white.
- Press the BACK button to the screen below.

```
LCD PATTERN TEST
ROTARY PUSH  ->  NEXT PATTERN
BACK          ->  BACK TO TITLE
```

- JOG display pattern is also synced and switched.

⑤ Mode 5: Confirmation of individual keys and LEDs

- The LED is light on depending on the button that is pressed.
  (See Table of "keys and corresponding LEDs to be light on in the mode for confirmation of individual keys".)
- "END" is displayed as in the above figure after operating all controls for each DECK1, DECK2, common and mixer.
- The data of operated elements must be saved until exiting the Test mode.
- JOG (ROTATE): Please note that just by touching doesn't mean operation.

```
KEY/LED  TEST
 BUTTON :

DECK1  : END
DECK2  : END
COMMON  : END
MIXER  : END
```
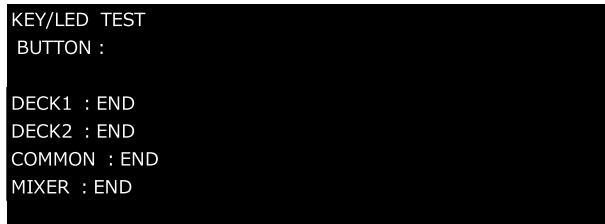
- When Channel fader 1 is moved up and down, Channel level indicator CH 1 moves up and down.
- When Channel fader 2 is moved up and down, Channel level indicator CH 2 moves up and down.
- When Channel fader 3 is moved up and down, Channel level indicator CH 3 moves up and down.
- When Channel fader 4 is moved up and down, Channel level indicator CH 4 moves up and down.
- When Crossfader is moved up and down, Master level indicator moves up and down.

Table of keys and corresponding LEDs to be light on in the mode for confirmation of individual keys

Operating buttons	LCD indication text	Self-lighting button light on color	Other self-lighting button
DECK1			
▶/❚❚ (PLAY/PAUSE)	CH1 Play/Pause	green	
CUE	CH1 CUE	amber	
SEARCH ◀◀	CH1 SearchRev	-----	DIRECTION, REV
SEARCH ▶▶	CH1 SearchFwd	-----	SLIP
TRACK SEARCH I◀◀	CH1 TrackRev	-----	LOOP IN/CUE (IN ADJUST)
TRACK SEARCH ▶▶I	CH1 TrackFwd	-----	LOOP OUT (OUT ADJUST)
SHIFT	CH1 Shift	-----	Jog ring illumination
DIRECTION, REV	CH1 Reverse	red	
SLIP	CH1 Slip	red	
4/8BEAT (LOOP CUTTER)	CH1 4 Beat	-----	LOOP IN/CUE (IN ADJUST)
LOOP IN/CUE (IN ADJUST)	CH1 LoopIn	amber	
LOOP OUT (OUT ADJUST)	CH1 LoopOut	amber	
RELOOP/EXIT	CH1 Reloop	amber	
CUE/LOOP CALL ◀ (LOOP 1/2X)	CH1 CallPrev	-----	LOOP IN/CUE (IN ADJUST)
CUE/LOOP CALL ▶ (LOOP 2X)	CH1 CallNext	-----	LOOP OUT (OUT ADJUST)
DELETE	CH1 CueDelete	-----	RELOOP/EXIT
MEMORY	CH1 CueMemory	-----	Jog ring illumination
SYNC (INST. DOUBLES)	CH1 Sync	white	
MASTER	CH1 Master	amber	
JOG MODE (VINYL)	CH1 Vinyl	blue	

Operating buttons	LCD indication text	Self-lighting button light on color	Other self-lighting button
DECK1 (continuation)			
JOG (TOUCH)	CH1 JogTouch	-----	Jog ring illumination
JOG ROTATE FWD	CH1 JogRotateFwd	-----	LOOP OUT (OUT ADJUST)
JOG ROTATE REV	CH1 JogRotateRev	-----	LOOP IN/CUE (IN ADJUST)
TEMPO	CH1 TempoRange	-----	MASTER
MASTER TEMPO	CH1 MasterTempo	red	
TEMPO RESET	CH1 TempoReset	green	
HOT CUE (CALL)	CH1 HotCue	※1	
BEAT LOOP	CH1 AutoBeatLoop	※1	
SLIP LOOP	CH1 SlipLoop	※1	
BEAT JUMP	CH1 BeatJump	※1	
Performance Pad 1	CH1 Pad1	※1	
Performance Pad 2	CH1 Pad2	※1	
Performance Pad 3	CH1 Pad3	※1	
Performance Pad 4	CH1 Pad4	※1	
Performance Pad 5	CH1 Pad5	※1	
Performance Pad 6	CH1 Pad6	※1	
Performance Pad 7	CH1 Pad7	※1	
Performance Pad 8	CH1 Pad8	※1	
DECK2			
►/❚❚ (PLAY/PAUSE)	CH2 Play/Pause	green	
CUE	CH2 CUE	amber	
SEARCH ◄◄	CH2 SearchRev	-----	DIRECTION, REV
SEARCH ►►	CH2 SearchFwd	-----	SLIP
TRACK SEARCH I◄◄	CH2 TrackRev	-----	LOOP IN/CUE (IN ADJUST)
TRACK SEARCH ►►I	CH2 TrackFwd	-----	LOOP OUT (OUT ADJUST)
SHIFT	CH2 Shift	-----	Jog ring illumination
DIRECTION, REV	CH2 Reverse	red	
SLIP	CH2 Slip	red	
4/8BEAT (LOOP CUTTER)	CH2 4 Beat	-----	LOOP IN/CUE (IN ADJUST)
LOOP IN/CUE (IN ADJUST)	CH2 LoopIn	amber	
LOOP OUT (OUT ADJUST)	CH2 LoopOut	amber	
RELOOP/EXIT	CH2 Reloop	amber	
CUE/LOOP CALL ◄ (LOOP 1/2X)	CH2 CallPrev	-----	LOOP IN/CUE (IN ADJUST)
CUE/LOOP CALL ► (LOOP 2X)	CH2 CallNext	-----	LOOP OUT (OUT ADJUST)
DELETE	CH2 CueDelete	-----	RELOOP/EXIT
MEMORY	CH2 CueMemory	-----	Jog ring illumination
SYNC (INST. DOUBLES)	CH2 Sync	white	
MASTER	CH2 Master	amber	
JOG MODE (VINYL)	CH2 Vinyl	blue	
JOG (TOUCH)	CH2 JogTouch	-----	Jog ring illumination (white)
JOG ROTATE FWD	CH2 JogRotateFwd	-----	LOOP OUT (OUT ADJUST)
JOG ROTATE REV	CH2 JogRotateRev	-----	LOOP IN/CUE (IN ADJUST)
TEMPO	CH2 TempoRange	-----	MASTER
MASTER TEMPO	CH2 MasterTempo	red	
TEMPO RESET	CH2 TempoReset	green	
HOT CUE (CALL)	CH2 HotCue	※1	
BEAT LOOP	CH2 AutoBeatLoop	※1	
SLIP LOOP	CH2 SlipLoop	※1	
BEAT JUMP	CH2 BeatJump	※1	
Performance Pad 1	CH2 Pad1	※1	
Performance Pad 2	CH2 Pad2	※1	
Performance Pad 3	CH2 Pad3	※1	
Performance Pad 4	CH2 Pad4	※1	
Performance Pad 5	CH2 Pad5	※1	
Performance Pad 6	CH2 Pad6	※1	
Performance Pad 7	CH2 Pad7	※1	
Performance Pad 8	CH2 Pad8	※1	

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Operating buttons	LCD indication text	Self-lighting button light on color	Other self-lighting button
Common			
rekordbox	Media RB	white	
LINK	Media LINK	blue	
USB1	Media USB1	green	
USB2	Media USB2	green	
BROWSE (SEARCH)	Browse	green	
TAGLIST	TagList	green	
INFO	Info	green	
MENU (UTILITY)	Menu	green	
DECK QUANTIZE	DeckQuantize	red	
TIME	TimeMode/ACue	-----	DECK QUANTIZE
Rotary selector	RotarySelector	-----	Rotary selector Indicator
BACK	Back	-----	BROWSE (SEARCH)
TAG TRACK/REMOVE	TagTrack	-----	TAGLIST
TRACK FILTER (EDIT)	TrackFilter	-----	INFO
SHORTCUT	ShortCut	-----	MENU (UTILITY)
LOAD 1	CH1 Load	white	
LOAD 2	CH2 Load	white	
USB1 STOP	CH1 UsbStop	-----	USB1 Indicator
USB2 STOP	CH2 UsbStop	-----	USB2 Indicator
MASTER REC (WAKE UP)	USB REC	red	
TRACK MARK	TrackMark	-----	MASTER REC (WAKE UP) Indicator
Mixer			
SOUND COLOR FX SWEEP	CfxSweep	white	
SOUND COLOR FX DUB ECHO	CfxDubEcho	white	
SOUND COLOR FX SPACE	CfxSpace	white	
SOUND COLOR FX NOISE	CfxNoise	white	
SOUND COLOR FX CRUSH	CfxCrush	white	
SOUND COLOR FX FILTER	CfxFilter	white	
CUE CH1	CH1 HeadphoneCueCh	amber	
CUE CH2	CH2 HeadphoneCueCh	amber	
CUE CH3	CH3 HeadphoneCueCh	amber	
CUE CH4	CH4 HeadphoneCueCh	amber	
CUE MASTER	MasterCue	amber	
BEAT FX ON/OFF	EffectOnOff	blue	
FX FREQUENCY HI	Fx Hi	blue	
FX FREQUENCY MID	Fx Mid	blue	
FX FREQUENCY LOW	Fx Low	blue	
AUTO/TAP	Aut/Tap	red	FX QUANTIZE
TAP	Tap	green	
FX QUANTIZE	Fx Quantize	red	
BEAT ►	BeatNext	-----	TAP
BEAT ◄	BeatPrev	-----	BEAT FX ON/OFF Indicator
MIC TALK OVER	TALKOVER	red	
FEEDBACK REDUCER	Feedback Reducer	green	

※1:　Each time you press the button, the color of the PAD changes as bellow.
Light off → Red → Green → Blue → White → Light off → (repeat)

The Power switch (⏻) is also subject to key check. So when the power is turned off in this Mode 5, first "Power" is displayed on the LCD and then it is turned off after 1 minute.

A ⑥ **Mode 6: Confirmation of individual switches, MIC LEDs and PAD LEDs**

- Display the position of the operated SW.
- When all the controls are operated, "END" is displayed as shown below. (included PAD LED confirmation)
- The data of operated elements must be saved until exiting the Test mode.

```
SW TEST
    INPUT SELECT
    CH3:                        CH4:

    CROSS FADER ASSIGN
    CH1:                        CH2:
    CH3:                        CH4:

    AUX :

    MIC SECTION
    MIC 1:                      MIC 2:
    FEEDBACK:

    CHECK  : END
```
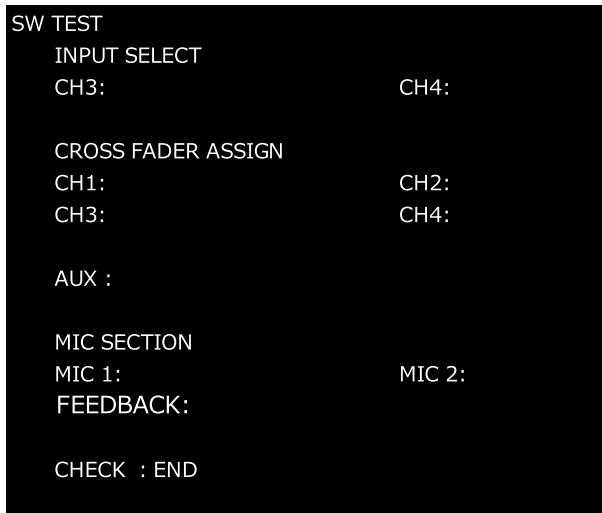
Operation switch		LCD indication	Remarks
Input selector (CH3)	PC	PC	
	LINE	LINE	
	PHONO	PHONO	
Input selector (CH4)	PC	PC	
	LINE	LINE	
	PHONO	PHONO	
CROSSFADER ASSIGN (CH1)	A	A	
	THRU	THRU	
	B	B	
CROSSFADER ASSIGN (CH2)	A	A	
	THRU	THRU	
	B	B	
CROSSFADER ASSIGN (CH3)	A	A	
	THRU	THRU	
	B	B	
CROSSFADER ASSIGN (CH4)	A	A	
	THRU	THRU	
	B	B	
AUX selector	OFF	OFF	
	LINE	LINE	
	PORTABLE	PORTABLE	
MIC 1 (OFF, ON) switch	OFF	OFF	Mic1 Indicator OFF
	ON	ON	Mic1 Indicator ON
MIC 2 (OFF, ON) switch	OFF	OFF	Mic2 Indicator OFF
	ON	ON	Mic2 Indicator ON
FEEDBACK REDUCER (LIGHT, HEAVY) switch	LIGHT	LIGHT	Mic1/Mic2 CLIP Indicator ON, Mic1/Mic2 SIGNAL Indicator OFF
	HEAVY	HEAVY	Mic1/Mic2 SIGNAL Indicator ON, Mic1/Mic2 CLIP Indicator OFF

Bulk confirmation of all PAD LEDs
- By pressing the following button in SW Test mode, you can check 3 color LEDs.
    PAD MODE (HOT CUE (CALL)) ON　: All the PAD MODE buttons and Performance Pads light on in red.
    PAD MODE (BEAT LOOP) ON　: All the PAD MODE buttons and Performance Pads light on in green.
    PAD MODE (SLIP LOOP) ON　: All the PAD MODE buttons and Performance Pads light on in blue.
    PAD MODE (BEAT JUMP) ON　: All the PAD MODE buttons and Performance Pads light on in white.
        (Red, green and blue light on at the same time)

⑦ **Mode 7: Confirmation of the values of the rotary variable controls and sliders**

• Display the value of the volume or slider you operated.
• When all elements are operated, "END" is displayed as shown below.
• The data of operated elements must be saved until exiting the Test mode.

```
VOL TEST
    CH1                    CH2
    CH3                    CH4
    MIC EQ HI



    CHECK  : END
```

Operation volume	LCD indication	Remarks
CH1 TRIM	CH1 TRIM XXX	
CH1 HI	CH1 HI XXX	
CH1 MID	CH1 MID XXX	
CH1 LOW	CH1 LOW XXX	XXX stands for 000–3FF in hexadecimal notation.
CH1 COLOR	CH1 COLOR XXX	
CH1 FADER	CH1 FADER XXX	
CH1 TEMPO	CH1 TEMPO XXX	XXX stands for 000 - 3FF0 in hexadecimal notation.
CH1 TOUCH/RELEASE	CH1 TOUCH/RELEASE XXX	
CH2 TRIM	CH2 TRIM XXX	
CH2 HI	CH2 HI XXX	
CH2 MID	CH2 MID XXX	XXX stands for 000–3FF in hexadecimal notation.
CH2 LOW	CH2 LOW XXX	
CH2 COLOR	CH2 COLOR XXX	
CH2 FADER	CH2 FADER XXX	
CH2 TEMPO	CH2 TEMPO XXX	XXX stands for 000 - 3FF0 in hexadecimal notation.
CH2 TOUCH/RELEASE	CH2 TOUCH/RELEASE XXX	XXX stands for 000–3FF in hexadecimal notation.
CH3 TRIM	CH3 TRIM XXX	
CH3 HI	CH3 HI XXX	
CH3 MID	CH3 MID XXX	
CH3 LOW	CH3 LOW XXX	
CH3 COLOR	CH3 COLOR XXX	
CH3 FADER	CH3 FADER XXX	
CH4 TRIM	CH4 TRIM XXX	XXX stands for 000–3FF in hexadecimal notation.
CH4 HI	CH4 HI XXX	
CH4 MID	CH4 MID XXX	
CH4 LOW	CH4 LOW XXX	
CH4 COLOR	CH4 COLOR XXX	
CH4 FADER	CH4 FADER XXX	
MIC1 EQ HI	MIC1 HI XXX	
MIC1 EQ MID	MIC1 MID XXX	
MIC1 EQ LOW	MIC1 LOW XXX	
MIC2 EQ HI	MIC2 HI XXX	
MIC2 EQ MID	MIC2 MID XXX	
MIC2 EQ LOW	MIC2 LOW XXX	
HP MIXING	HP MIXING XXX	
HP LEVEL	HP LEVEL XXX	
EFFECT PARAMETER	PARAMETER	The value is displayed in the 3rd row of the left column of the LCD. XXX stands for 000–3FF in hexadecimal notation.
AUX TRIM	AUX TRIM	
CROSS FADER	CROSS FADER XXX	
LEVEL/DEPTH	LEVEL DEPTH XXX	
BOOTH LEVEL	BOOTH LEVEL XXX	
MASTER LEVEL	MASTER LEVEL XXX	
MASTER EQ HI	MASTER EQ HI XXX	
MASTER EQ MID	MASTER EQ MID XXX	
MASTER EQ LOW	MASTER EQ LOW XXX	

Operation volume	LCD indication	Remarks
BEAT EFFECT SELECTOR	BEAT FX TYPE XXX	The value is displayed in the 3rd row of the left column of the LCD. XXX stands for 000 - 00D in hexadecimal notation.
BEAT CH SELECTOR	BEAT FX CH XXX	The value is displayed in the 3rd row of the left column of the LCD. XXX stands for 000 - 00A in hexadecimal notation.

⑧ Mode 8: X-PAD test

- Display the position parameters of the upper row, lower row and SLICER where the X-PAD is touched.
- Touch status and beat information at the touch position are also displayed.
- When all PAD position is touched, "END" is displayed as shown below.

```
X-PAD TEST
    TOUCH UPPER    ON          X-PAD UPPER    0
    TOUCH LOWER    ON          X-PAD LOWER    FF
                               X-PAD SLICER   7F

    PAD POSITION   1/16

    CHECK  : END
```

Reference information

X-PAD Upper
X-PAD SLICER
X-PAD Lower
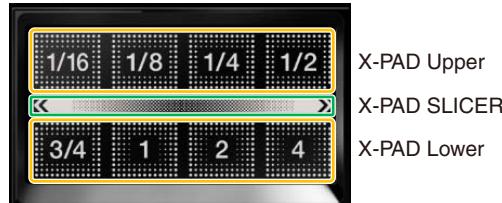
Operation	LCD indication	Remarks
X-PAD touch (Upper)	TOUCH UPPER XXX	Touch status : ON/OFF
X-PAD touch (Lower)	TOUCH LOWER XXX	Touch status : ON/OFF
X-PAD Upper	X-PAD UPPER XX	XXX stands for 00 - FF in hexadecimal notation.
X-PAD Lower	X-PAD LOWER XX	XXX stands for 00 - FF in hexadecimal notation.
X-PAD SLICER	X-PAD SLICER XX	XXX stands for 00 - FF in hexadecimal notation.
PAD position	PAD POSITION XXXX	XXXX displays beat information at the touch position

Notes
Even when the upper row or the lower row of the X-PAD is touched, SLICER position information is displayed.
Even when the SLICER of the X-PAD is touched, the position information of the upper row or the lower row is displayed.

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⑨ **Mode 9: Touch display test**

• There are touch panel Test mode and Calibration mode.
• In the touch panel Test mode, press the Rotary selector to enter the Calibration mode.
• Press the BACK button in the Calibration mode to return to the touch panel Test mode.

● **Touch panel Test mode**
　• If you touch the center of the white part correctly, it changes to green.

TOUCH PANEL TEST

Touch white rectangles.

To calibration mode,
push the rotary.
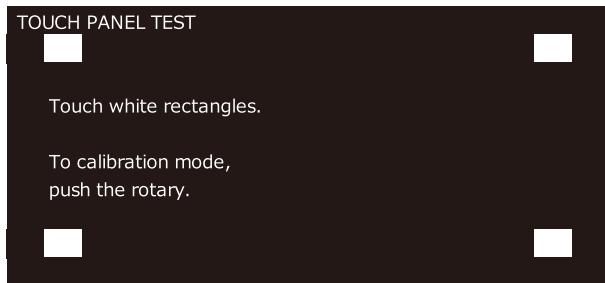
　• If you press all parts correctly, "Touch test OK" appears.

TOUCH PANEL TEST

Touch test OK.
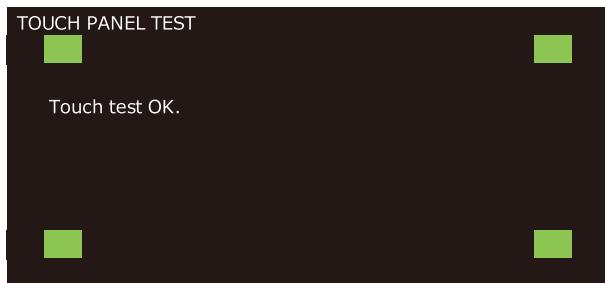
● **Calibration mode**
　• Press the 4 "+" marks one by one to complete the calibration.
　• When the calibration is completed, the setting is saved and the mode returns to the touch panel Test mode.
　• Turn the Rotary selector to cancel, and the mode changes.

TOUCH PANEL CALIBRATION

Touch the "+" mark.

Cancel calibration,
push the back button

　　　　　　　　　　　+
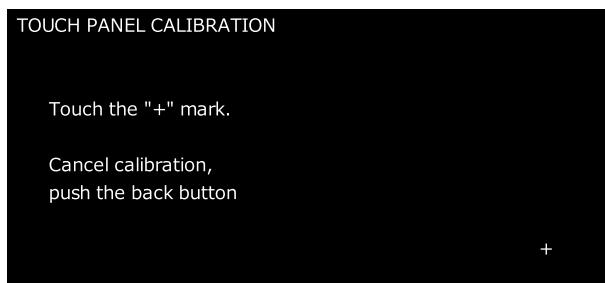
A

⑩ **Mode 10: Rotary selector**

- Turn right to count up, and turn left to count down.
- When the value exceeds FF during counting up, it returns to 00 and then increases. When the value decreases to 00 or below during counting down, it continues decreasing (FF, FE…).
- Press the Rotary selector to return to Mode1.
- When the Rotary selector is operated, "END" is displayed as shown below.
- The data of operated elements must be saved until exiting the Test mode.

```
SELECTOR TEST
    SELECTOR XX



    CHECK  : END
```

B
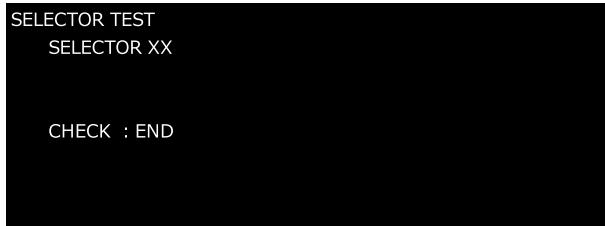
Operation	LCD indication	Remarks
Rotary selector	SELECTOR XX	XX stands for 00–FF in hexadecimal notation.
TIME	TIME XX	

C

How to Reset to the Factory Default Settings

While holding the DECK 1 DELETE and DECK1 TEMPO buttons pressed, press the ⏻ switch to turn on the unit.
(Be sure to hold the u switch pressed until the unit starts up.)

⏻ switch

D

DELETE button

TEMPO button

E

* The language setting will not be reset.

■ **Parameters to be initialized by Factory Reset (the parameters the values of which immediately before the unit is turned off are to be stored in memory)**

```
AUTO CUE        : OFF
Vinyl MODE      : OFF
TIME MODE       : REMAIN
DECK QUANTIZE   : ON
TEMPO RANGE     : ±10%
MASTER TEMPO    : OFF
FX QUANTIZE     : ON
UTILITY (except language setting)
```

F

6.2 LCD CALIBRATION MODE

While holding the DECK 2 MEMORY and TEMPO buttons pressed, press the ⏻ switch to turn the unit on.
(Be sure to hold the u switch pressed until the unit starts up.)

Jog display   Jog display

⏻ switch

DIRECTION, REV
button

TRACK SEARCH
I◄◄, ►►I button

SEARCH   TEMPO RESET
◄◄, ►► button   button

MEMORY button

DIRECTION, REV
button

TEMPO button

TRACK SEARCH
I◄◄, ►►I button

SEARCH   TEMPO RESET
◄◄, ►► button   button

The following is displayed on the Jog display of the left and right Decks.

x. y   Black line
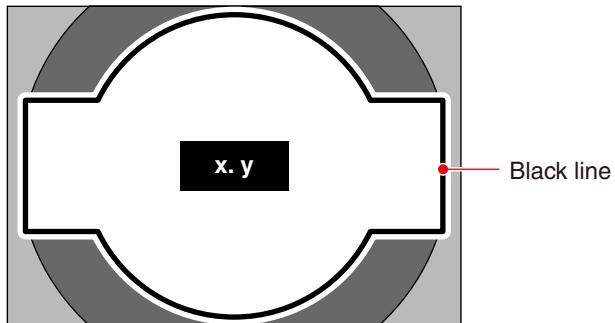
The left and right Jog ring illumination LEDs flash.

The initial value of the coordinates in the center is (0. 0), but if it already has a saved value, that value is displayed.
    Adjustment range of x axis : -4 to +4 pixel
    Adjustment range of y axis : -4 to +4 pixel

■ Procedure

Adjust the position of the black line as follows.
TRACK SEARCH I◄◄   : Move the black line by one pixel to the left.
TRACK SEARCH ►►I   : Move the black line by one pixel to the right.
SEARCH ◄◄   : Move the black line 1 pixel upward.
SEARCH ►►   : Move black line 1 pixel downward.

After adjusting the position, press DIRECTION, REV button and save the result.
When saving is completed, the Jog ring illumination LED light off.
By saving the result on the left and right decks, the JOG LCD calibration status changes to "END".
To make adjustment again, press TEMPO RESET button.
The Jog ring illumination LED flashes after entering the adjustment status.

6.3 ABOUT THE DEVICE

Device Name	Function	Part No.	Reference No.	Assy
MAIN UCOM (IMX6) /Application Processor	Main CPU Display control, USB host control, LAN communication control, Device microcomputer control, Device/LED control.	MCIMX6Q6AVT10AD	IC701	MAIN Assy
SDRAM (DDR3 4Gb x2)	DRAM for I.MX6	K4B4G1646E-BYMA	IC901, IC902	MAIN Assy
NAND Flash (2Gbit)	Main program for I.MX	DYW✱✱✱✱	IC1102 (NSP)	MAIN Assy
PMIC for I.MX6	Power supply generation, Power supply management IC for I.MX6.	MMPF0100F0AEP	IC502	MAIN Assy
USBA HUB	Connect between two USB A terminal and I.MX6.	TUSB4020BIPHP	IC1805	MAIN Assy
High-side SW IC	USB current monitoring IC, It limits the current to USBA terminal.	TPS2557DRB	IC1803, IC1804	MAIN Assy
USBB HUB	Divide a USB signal for USBB communication, LAN conversion and I.MX6 communication.	TUSB4041IPAP	IC2002	MAIN Assy
USB-LAN Conversion	Convert USB communication from USB HUB to LAN communication.	RTL8152B-VB-CG	IC2001 (NSP)	MAIN Assy
LAN HUB	Connect from LAN terminal, CH3, CH4, Extension and convert the LAN communication with USB-0LAN Conversion to I.MX6.	RTL8309M-CG	IC2151	MAIN Assy
MIXER UCOM	USB device control, MIXER Assy AD processing, DSP control, DAC, USBB HUB control	R5S72690W266FP	IC2302 (NSP)	MAIN Assy
SPI Flash for MIXER UCOM (16 Mb)	Program storage for MIXER UCOM	DYW✱✱✱✱	IC2303 (NSP)	MAIN Assy
DSP	Audio DSP	D810K013DZKB400	IC2501	MAIN Assy
SDRAM 128Mb	SDRAM for DSP	W9812G6KH-6	IC2502	MAIN Assy
JOG LCD UCOM1, 2	JOG LCD1, JOG LCD2 control microcomputer	R5S72690W266FP	IC3002, IC3202	JLCD1, JLCD2 Assy
SPI Flash for JOG LCD UCOM1/2 (64 Mb)	Program storage for JOG LCD UCOM1/2	DYW✱✱✱✱	IC3003, IC3203 (NSP)	JLCD1, JLCD2 Assy
SDRAM 64Mb	SDRAM for JOG LCD UCOM	W9864G6KH-5	IC3007, IC3206	JLCD1, JLCD2 Assy
X-PAD TOUCH CONTROLLER	XPAD touch control IC	ATSAMD20E15A-MU	IC3401	XPAD Assy
LVDS Receiver IC	Convert LVDS signal for liquid crystal from I.MX6 into RGB signal.	BU90R104	IC3601	LCDB Assy
TOUCH PANEL CONTROL IC	Touch panel control IC for Browse section	AK4187VN	IC3606	LCDB Assy
ERP UCOM	Standby control elements. LEDs and elements control.	DYW✱✱✱✱	IC4502 (NSP)	UCOM Assy
PANELM UCOM	LED on the MIXER Assy and elements control.	DYW✱✱✱✱	IC4505 (NSP)	UCOM Assy
AUDIO DAC	Master 4ch-Multi DAC (Master1, Master2, Booth, Send)	AK4458VN	IC5802	AUDIO Assy
	Headphone DAC	AK4384ET	IC5801	AUDIO Assy
AUDIO ADC	ADC for CH3 and CH4	AK5386VT	IC5204, IC5404	AUDIO Assy
	ADC for AUX and MIC	AK5358AET	IC5603, IC5604	AUDIO Assy
7 inch TFT LCD	7 inch liquid crystal module for Browse	CWX4352	Connect to CN5201 (LCD)	
3.5 inch TFT LCD	3.5 inch liquid crystal module for JOG LCD	DWX4228	Connect to CN3006/CN3206 (LCD)	
LCD Backlight IC	Backlight control IC	IS31BL3555-ZLS4	IC302	MAIN Assy

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

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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
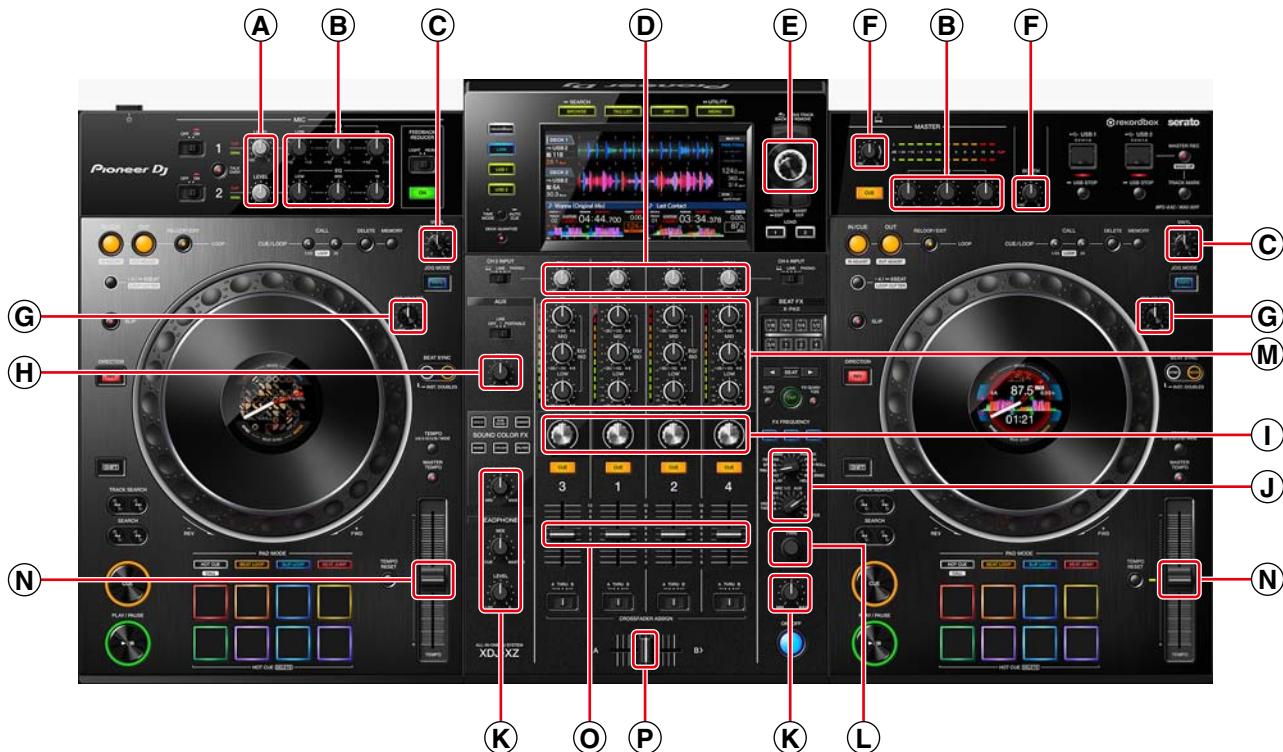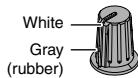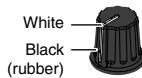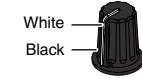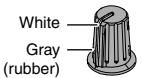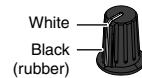
Ⓐ DAA1442 ×2	Ⓑ DAA1432 ×9	Ⓒ DAA1284 ×2	Ⓓ DAA1408 ×4	Ⓔ DAA1246 ×1	Ⓕ DAA1409 ×2
White / Gray (rubber)	White / Black (rubber)	White / Black	White / Gray (rubber)	Black	White / Black (rubber)

Ⓖ DAA1406 ×2	Ⓗ DAA1435 ×1	Ⓘ DAA1309 ×4	Ⓙ DAA1205 ×2	Ⓚ DAA1434 ×4	Ⓛ DAA1180 ×1
Black / White	White / Black (rubber)	White / Sliver	White / Black	White / Black (rubber)	Black (rubber)

Ⓜ DAA1305 ×12	Ⓝ DNK5981 ×2	Ⓞ DAC3539 + DAC2685 + DNK5888 ×4 ×4 ×4	Ⓟ DAC3238 + DAC2685 + DNK6440 ×1 ×1 ×1
Black (rubber) / White / White	White / Black	DAC2685 — White / DAC3539 — Black / DNK5888 — Gray	DAC2685 — White / DAC3238 — Black / DNK6440 — Gray
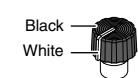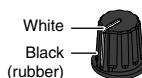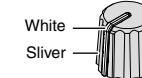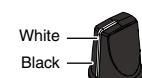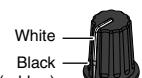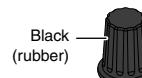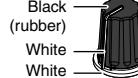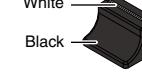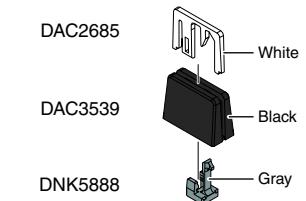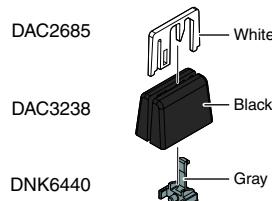
Disassembly

[1] Chassis Section

[1-1] Control panel Section

① Remove the 2 knobs.

① ×2

② Remove the 5 screws.
(BBZ30P060FTB)
③ Remove the 13 screws.
(BPZ30P100FTB)
④ Remove the 6 screws.
(BBZ30P060FTB)

③ ×13

Screw tightening order

• Bottom view

④ ×6

• Rear view
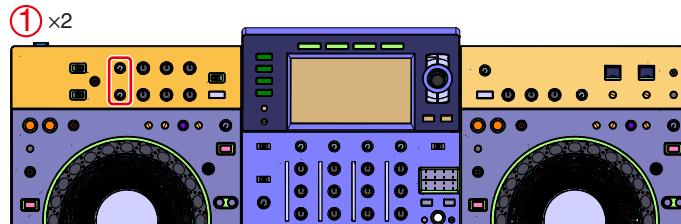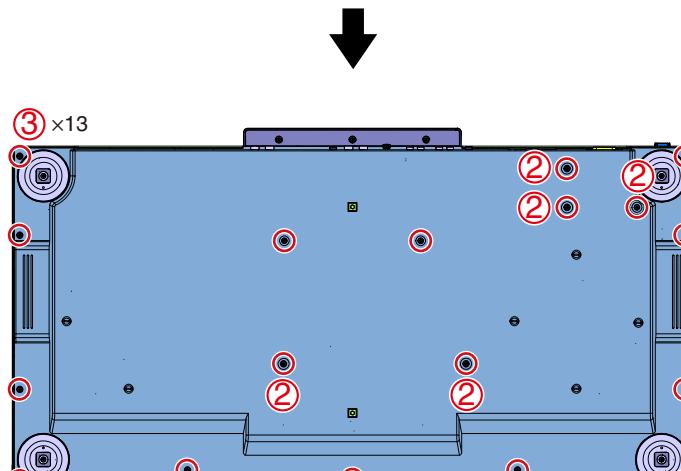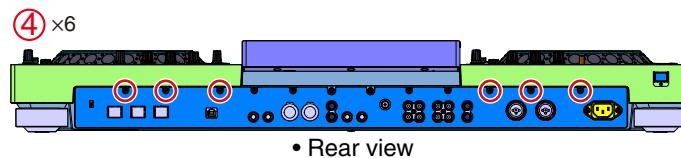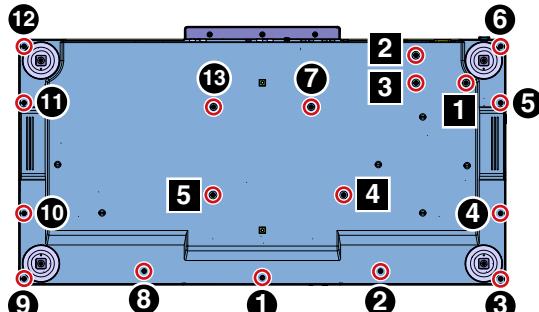
⑤ Remove the Control panel Section.
⑥ Release the jumper wire from cord clamper.
⑦ Disconnect the 2 flexible cables and 1 connector.
(CN4505, 4508, 7701)

Caution:
The locking function of the connectors of
CN4505, 4508 is fragile.
Therefore, when locking or unlocking, it is
necessary to work so that the force equally
applies to both sides with both hands.
Also, we need to be careful not to overpower.

⑥ Cord clamper

Control panel Section

A
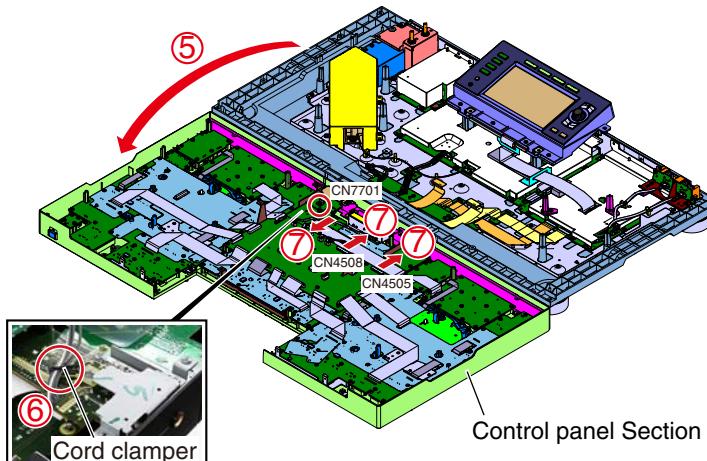
[1-2] LCD Section

① Remove the 6 screws.
(BBZ30P060FTB)

① ×6

• Rear view

B
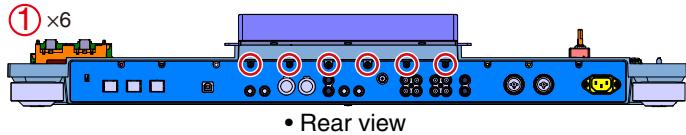
② Disconnect the flexible cable.
(CN103)

Caution:

The locking function of the connectors of CN103
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.

③ Remove the LCD Section.

③

LCD Section

②-2

②-1

CN103

C
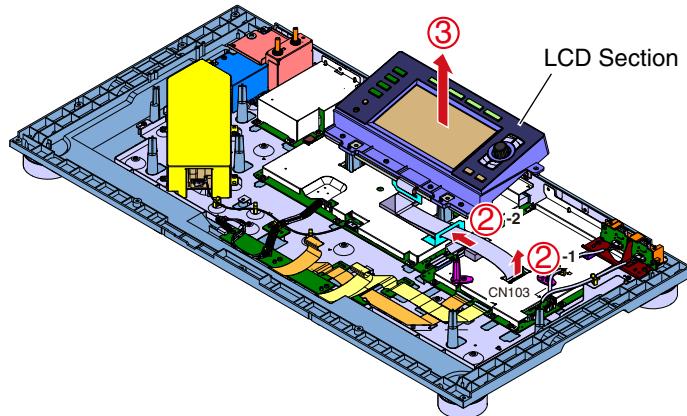
[1-3] USBA Assy Section

① Disconnect the 2 connectors.
(CN1801, 1802)
② Release the 2 jumper wires.
③ Remove the 2 screws and then remove the
USBA Assy Section.
(BBZ30P060FTC)

USBA Assy Section

③ ③

② ②

CN1801
CN1802

① ×2

D
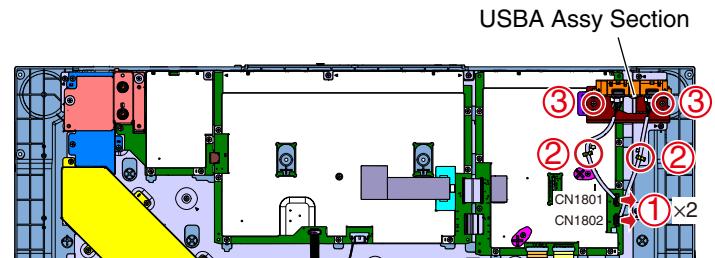
[1-4] Diagnosis of Chassis Section

① Remove the 18 screws and then remove the
3 Shield cases.
(BBZ30P060FTC)

① ×18   Shield case   Shield case   Shield case

E

F

XDJ-XZ

53
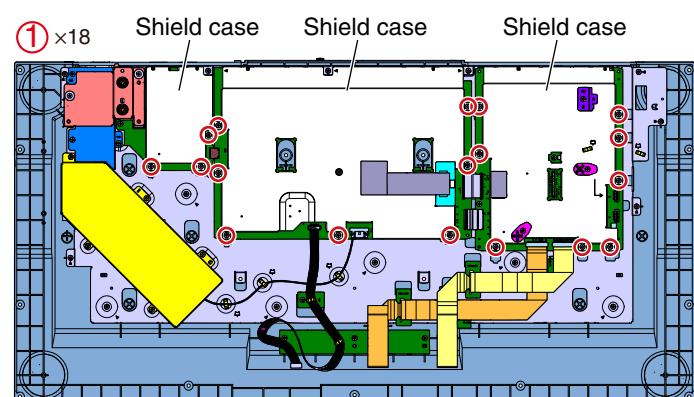
A ② Reconnect the Control panel Section, LCD Section and USBA Assy Section.

Diagnosis

MCTR Assy Section   MCIN Assy   AUDIO Assy   MAIN Assy
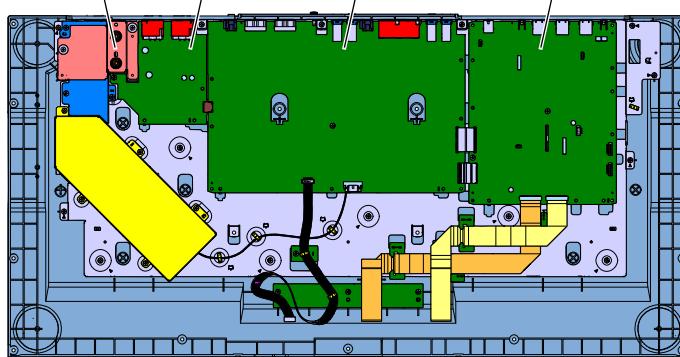
[1-5] Chassis Section
① Remove the 2 screws and then remove the MCTR Assy Section.
(DBA1260)

C **Caution:**
It cannot watch BtoB connector part when install MCTR Assy Section.
The connector may be damaged if it is forcibly attached these parts.

MCTR Assy Section
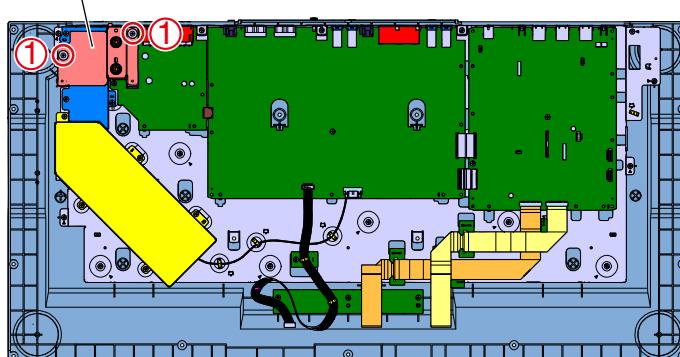
② Remove the 15 screws and then remove the Chassis Section.
(BPZ30P080FNI)

Screw tightening order

② ×15

Chassis Section

XDJ-XZ
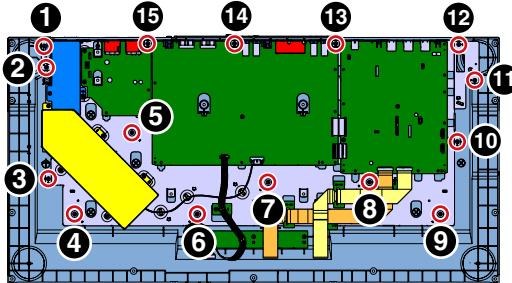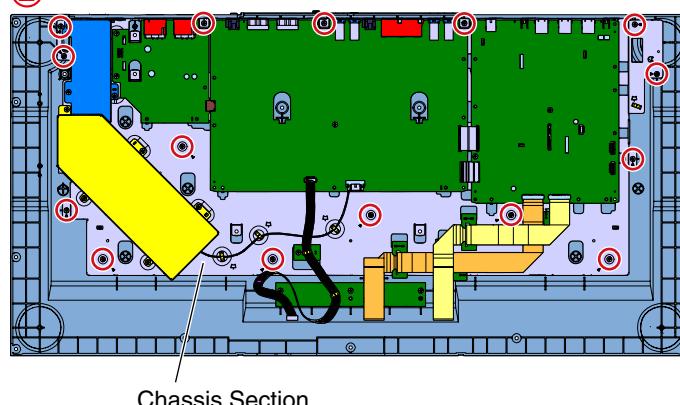
[1-6] SW POWER SUPPLY

① Remove the 5 screws and then remove the
   Shield case.
   (BBZ30P060FTC)
② Disconnect the 2 connectors.
   (CN1, 2)
③ Remove the 4 screws.
   (BBZ30P060FTC)
④ Release the 2 PCB holders and then remove
   the SW POWER SUPPLY.

Screw tightening order
The other screws are random order.

① ×5

Shield case

SW POWER SUPPLY
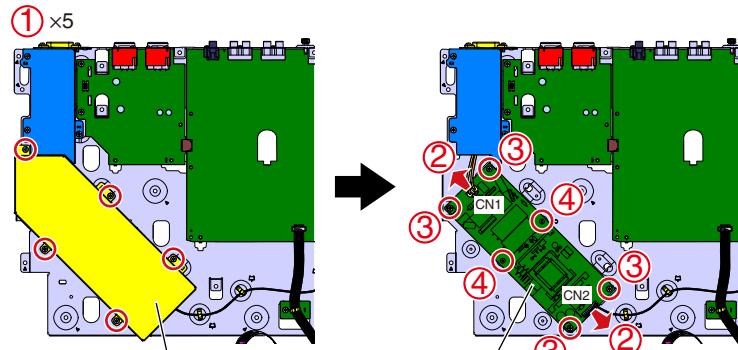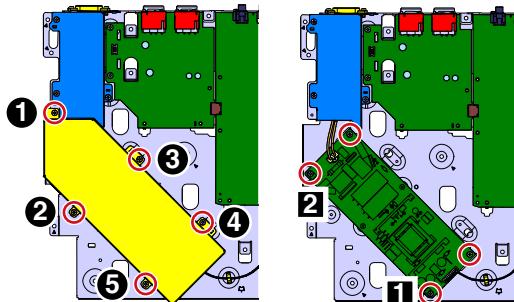
[1-7] MAIN, AUDIO and MCIN Assys

① Disconnect the 3 flexible cables and 2 connector.
   (CN101, 104, 105, 5002, 6401, 6601)
② Unhook the 2 bridge connectors.
   (CN102, 5601)
③ Remove the 5 screws.
   (BBZ30P060FTC)

Screw tightening order

③ ×5

MCIN Assy   AUDIO Assy   MAIN Assy

CN5601   CN5002 CN101
CN6401 CN6601   CN102
CN104   CN105
①×2
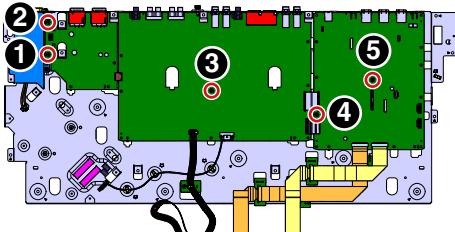
④ Remove the 2 screws.
   (BBZ30P060FTC)
⑤ Remove the 1 screw.
   (DBA1340)
⑥ Remove the 4 nuts.
   (NKX2FNI)
⑦ Remove the 4 screws.
   (PPZ30P080FTB)
⑧ Remove the 4 screws.
   (PPZ30P080FTB)
⑨ Remove the 4 screws.
   (PPZ30P080FTB)

⑤ ⑦×4 ⑧ ⑧⑧⑧

④ ④ ⑥×2 ⑥×2 ⑨×4
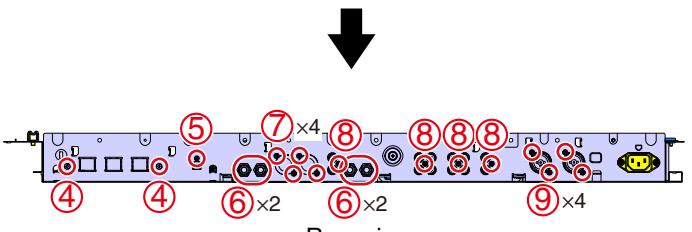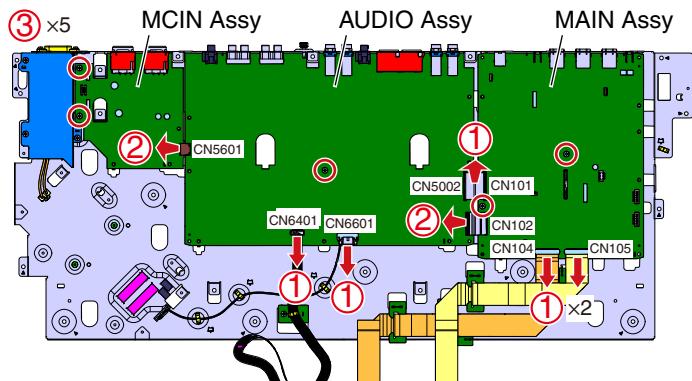
• Rear view

Screw tightening order
The other screws are random order.

MAIN Assy ← → AUDIO Assy → → MCIN Assy

Be sure to tighten this screw ⑤ first.

XDJ-XZ

⑩ Remove the MAIN, AUDIO and MCIN Assemblies.

MCIN Assy

AUDIO Assy

MAIN Assy

⑩
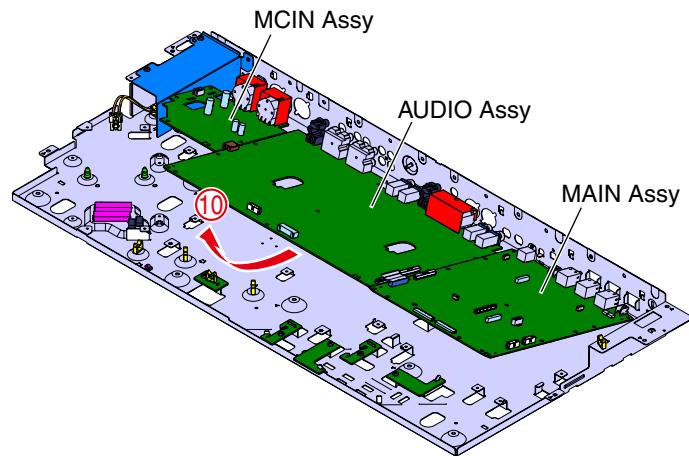
■ Styling procedure

❶
❸
❷
❺
❹
❻
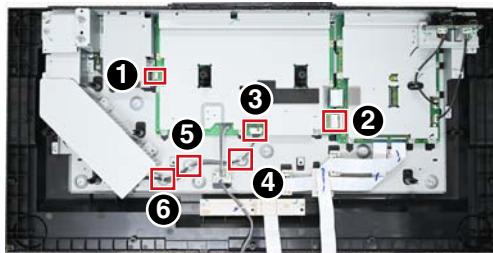
■ Jumper wires styling

Note: Fold FFC according to the following photo. (Mountain fold, Valley fold)

Push the center of FFC.

Fasten the jumper wire with wire clip.

Bend FFC in conformity to the line.

Put FFC to the hook of the PCB.

Be careful about the false insertion.

Bend FFC in conformity to the line.

Fasten the jumper wire with wire clip.

FFC pass the bottom of the PCB.

XDJ-XZ
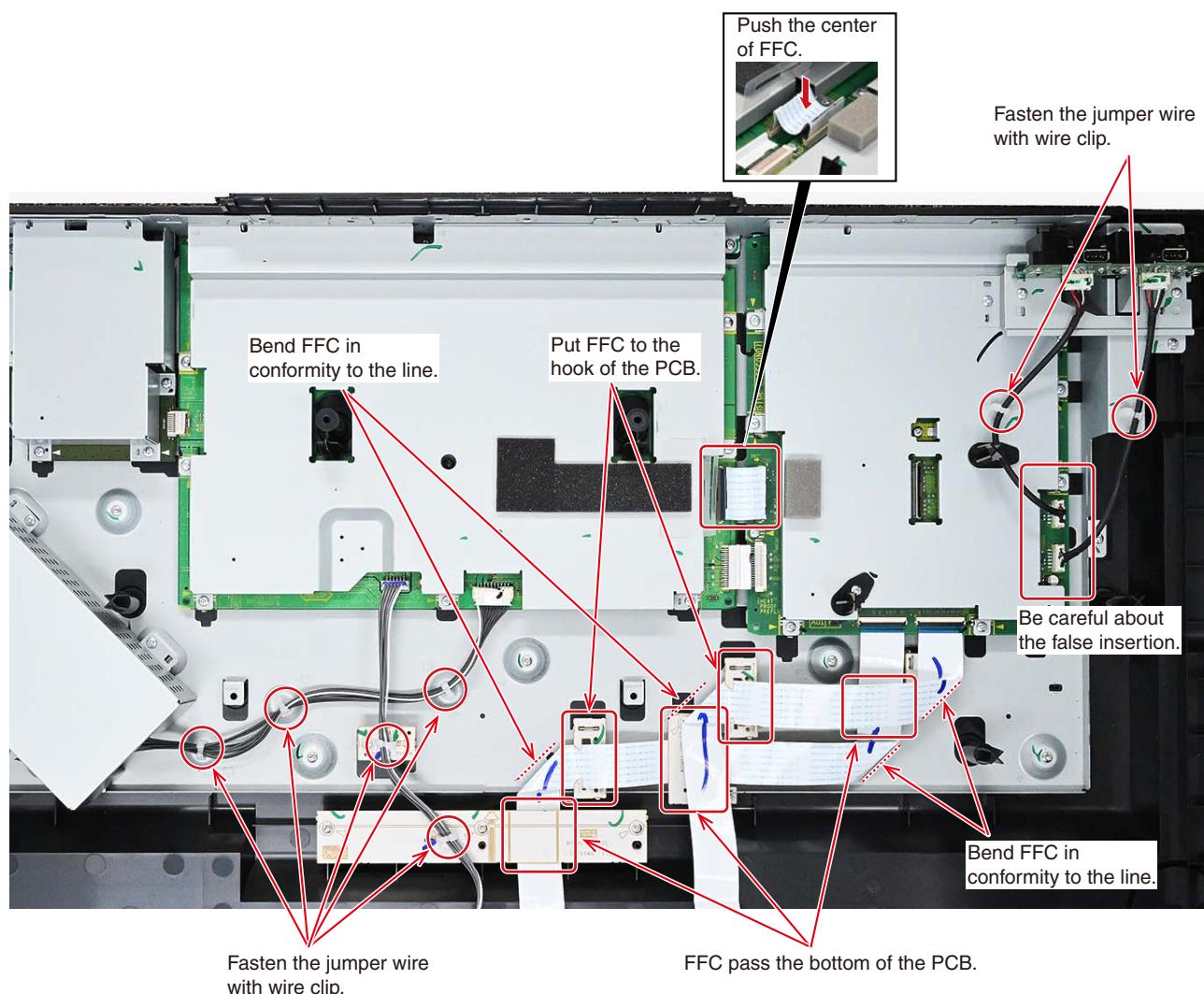
[2] LCD Section

[2-1] Exterior Section

① Remove the Dial knob.
② Remove the 4 screws.
   (BBZ30P060FTC)

② ×4

Dial knob
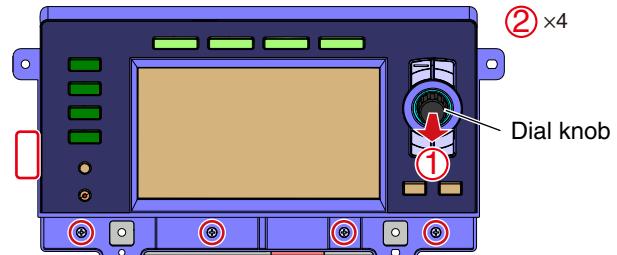
③ Remove the 3 screws and then remove the Cover.
   (BBZ30P060FTB)

Screw tightening order

The other screws are random order.

❶

③ ×3

Cover

• Bottom view
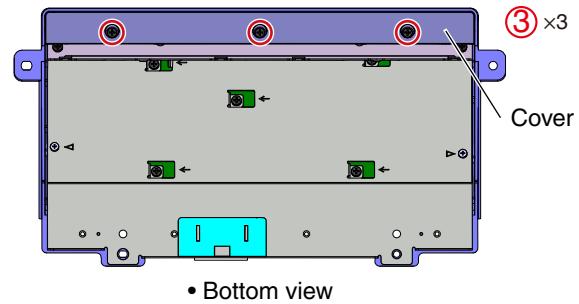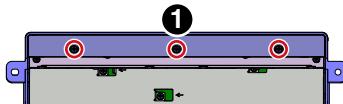
④ Remove the 4 screws and then remove the Angle.
   (BBZ30P060FTB)

④ ×4

Angle

• Bottom view
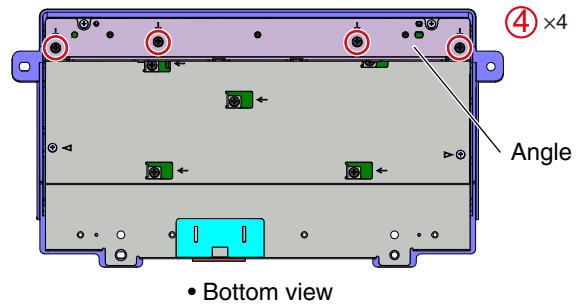
⑤ Remove the 5 screws.
   (BBZ30P060FTB)
⑥ Remove the 4 screws and then remove the Shield case.
   (BPZ26P080FTC)

Shield case

⑥   ⑤   ⑤   ⑥

⑤

⑥   ⑤   ⑤   ⑥

• Bottom view
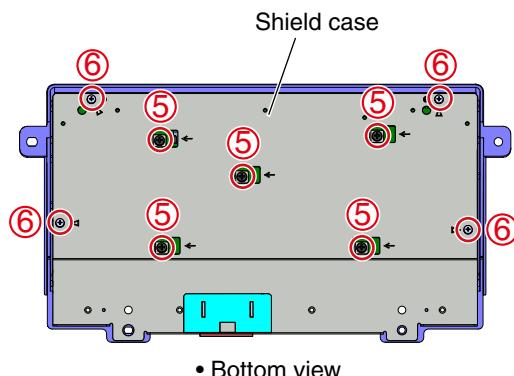
A

[2-2] LCDB Assy

① Disconnect the 1 flexible cable, 2 FPC and
1 connector.
(CN3601 to 3604)

② Remove the 14 screws and then remove the
LCDB Assy.
(BPZ26P080FTC)

Caution:

The locking function of the connectors of
CN3601, 3603 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.

B

② ×14

CN3604   CN3603

CN3602

CN3601

LCDB Assy

• Bottom view
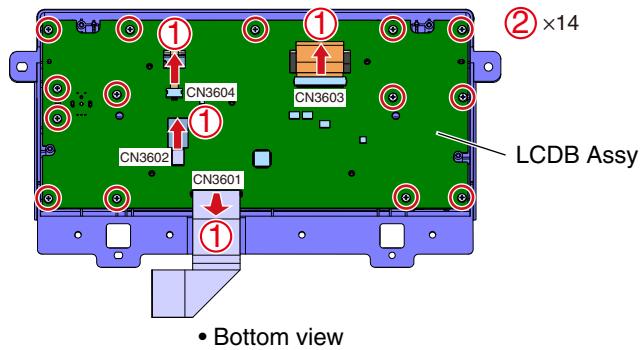
[2-3] TFT LCD and Touch panel

① Remove the 4 screws and then remobve the
Stay.
(BPZ26P080FTC)

② Remove the TFT LCD.

③ Remove the Touch panel.

C

① ×4

Stay

② TFT LCD

③ Touch panel

D

• Bottom view

■ **Jumper wires styling**

E

FFC pass the slit of the barrier.

Bend the FFC 90 degrees
in the backside (bottom).

F

FFC pass the slit of the barrier.
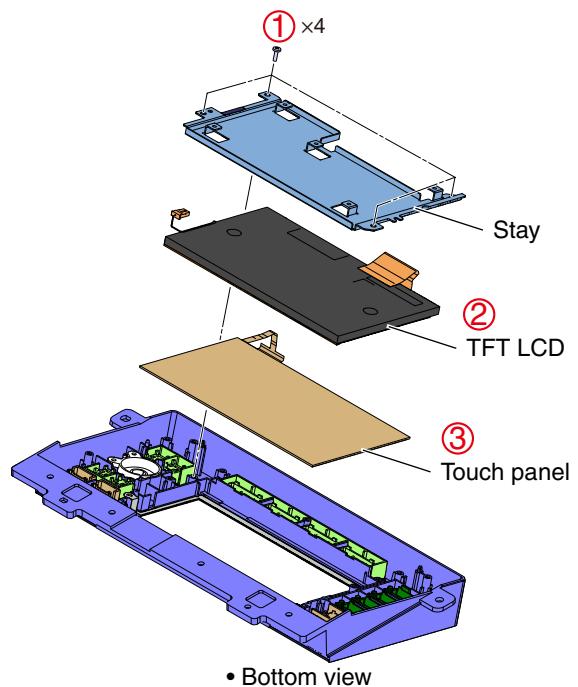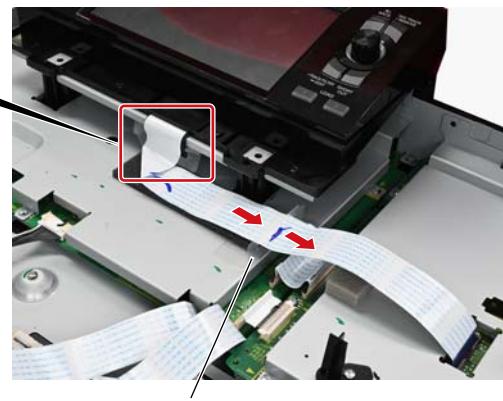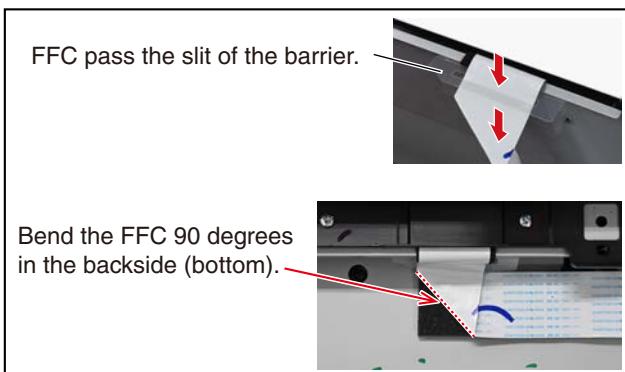
■ Notes on disassembling buttons

As shown below, 4 buttons on the panel are fixed 2 buttons from the bottom side.
(A button has 2 hooks.)
When disassembling it, put off the hook by using an thin rod or the like.
In addition, the hook is fragile so please be careful.

Panel
Button
Button

Button
Button

Hook
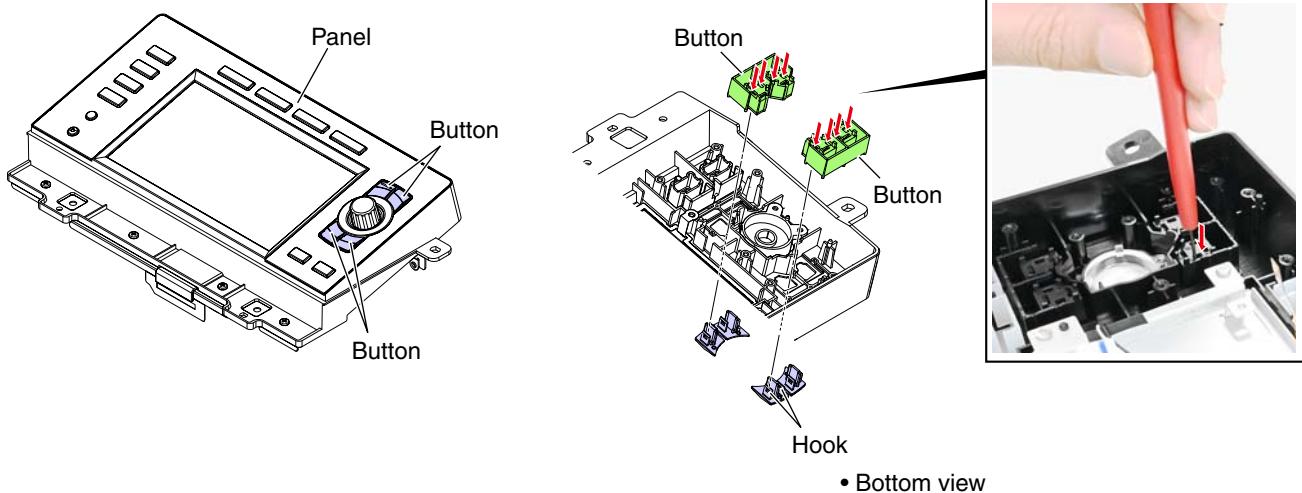
• Bottom view

[3] Control panel Section

[3-1] Knobs

① Remove the all knobs.
② Remove the 4 Silider knobs 2, 4 Knobs,
4 Stoppers.
(See below.)
③ Remove the Silider knob 2, Knob, Stopper.
(See below.)

① ×45

② ×4

③
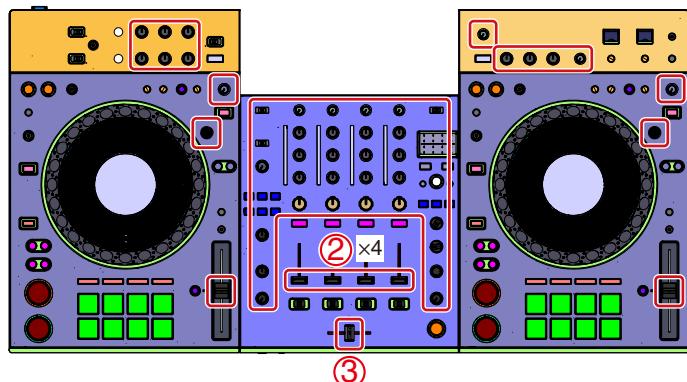
■ The reference of the direction

Side on which
the line reaches the bottom

Stopper
(front direction)

Stopper
(right direction)
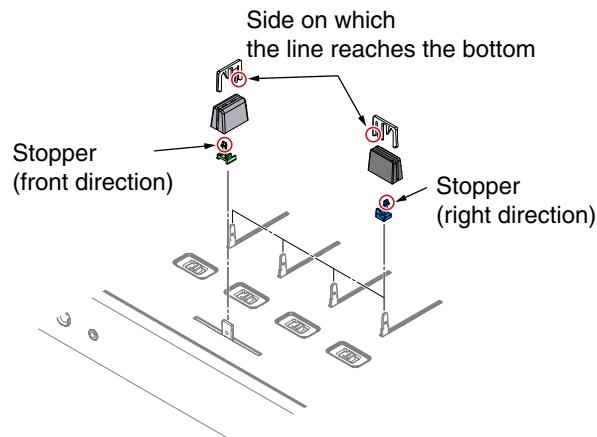
A

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

-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 Knob out upward.
④ Pull the Slider Knob Stopper (Stopper) out horizontally.
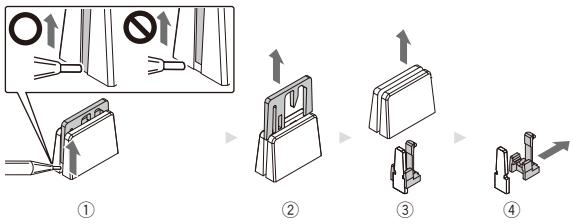
-Reassembly-

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

B
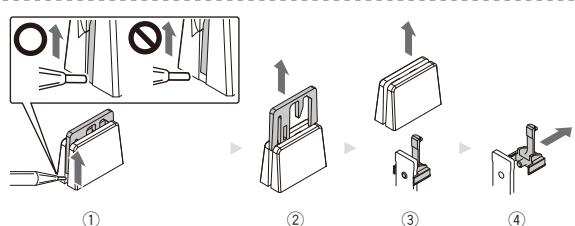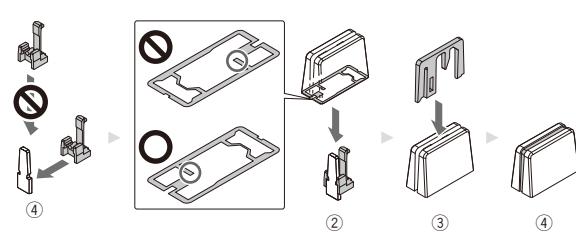
C

[3-2] PWSW Assy

① Remove the 2 screws and then remove the PWSW Assy.
   (BPZ30P080FNI)
③ Disconnect the 1 connector.
   (CN8401)
④ Remove the Power Knob.

PWSW Assy

CN8401

Power Knob

PWSW Assy

• Bottom view

D
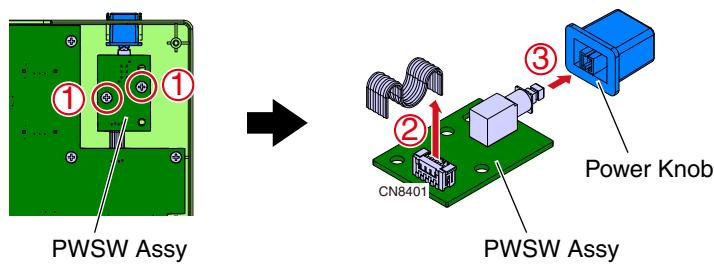
[3-3] HPJK Assy Section and Crossfader Section

① Remove the 1 screw and then remove the Cord clamper.
   (BPZ30P080FNI)
② Remove the 2 screws and then remove the HPJK Assy Section.
   (BBZ30P060FTC)
③ Disconnect the 1 connector.
   (CN4514)
④ Remove the 3 screws and then remove the Crossfader Section.
   (BPZ30P080FNI)

CN4514

Cord clamper

Crossfader Section

HPJK Assy Section

• Bottom view

E

F

XDJ-XZ
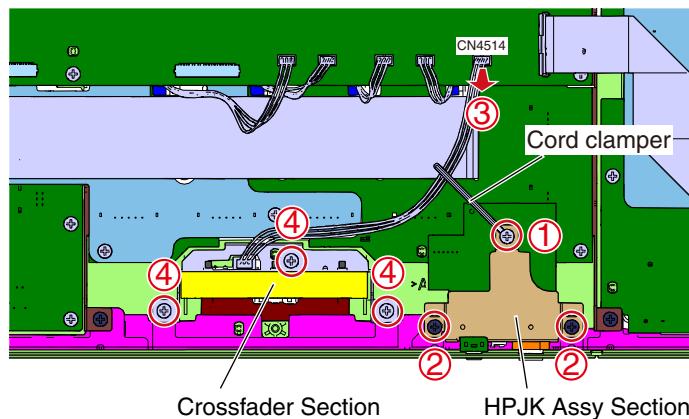
[3-4] CRFD Assy

① Remove the 1 screw and then remove the Slider Section.
(CPZ26P080FTC)

② Remove the 2 screws and then remove the CRFD Assy.
(BPZ20P050FTC)

CRFD Assy

Slider Section
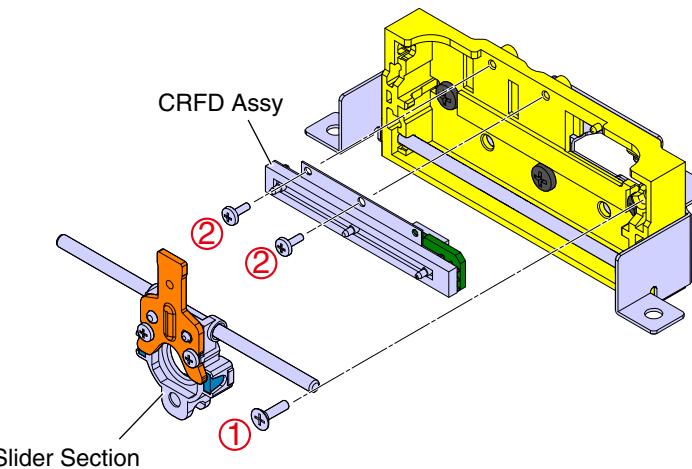
■ Locations of grease application

Lubricating oil
(GYA1001)

● Slider
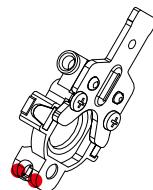
● Guide Bar (upper)

After grease application, move the slider in order to fully spread the grease.
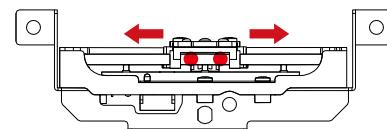
[3-5] UCOM Assy

① Disconnect the 11 flexible cables and 4 connectors.
(CN4503, 4504, 4506, 4507, 4509 to 4513, 4515 to 4520)

Caution:

The locking function of the connectors of CN4504, 4516 is fragile.

Therefore, when locking or unlocking, it is necessary to work so that the force equally applies to both sides with both hands.

Also, we need to be careful not to overpower.

② Remove the 7 screws and then remove the UCOM Assy.
(BPZ30P080FNI)

① ×15

CN4520　CN4506　CN4507　CN4509　CN4517
CN4519
CN4518
CN4503
CN4515
CN4504
CN4511　CN4513
CN4510　CN4512
CN4516
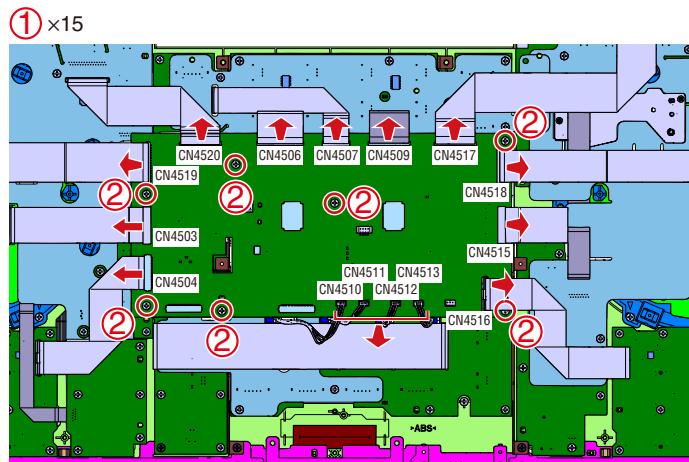
■ direction to fold FFC into

The connector region except UCOM Assy is similar, too.

※1

2 mm

Face side

※2

Edge of back plate

backside

※1 ※2 ※1 ※2 ※1

※2

※2

※1

■ Jumper wires styling
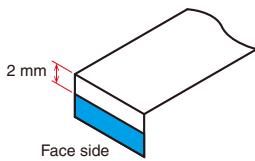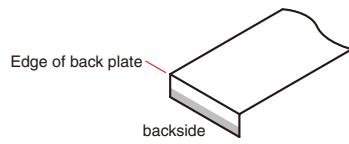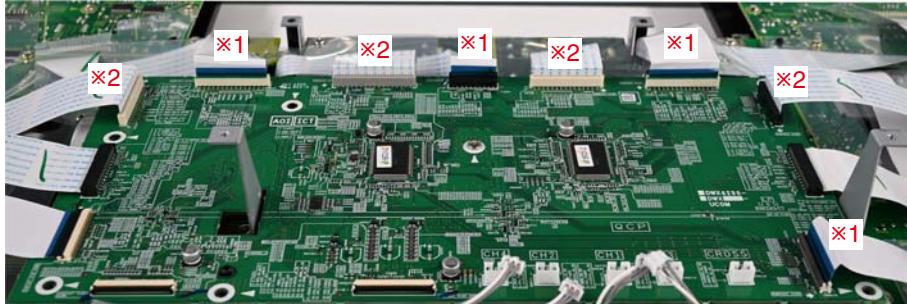
Bend FFC in
conformity to the line.

FFC pass it over barrier.   FFC pass a slit.   Bend FFC in
conformity to the line.   FFC pass it over barrier.   FFC pass a slit.

FFC pass a slit.
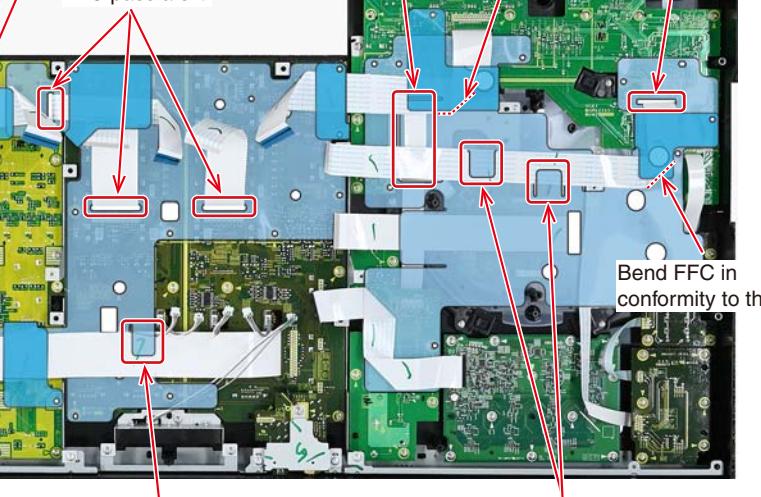
Bend FFC in
conformity to the line.

Put FFC to the hook.   Put FFC to the hook.   Put FFC to the hook.

[3-6] Barrier

① Remove the 29 screws and then remove the 3 Barriers.
(BPZ30P080FNI)

① ×9   Barrier   Barrier   ① ×9   Barrier

① ×11
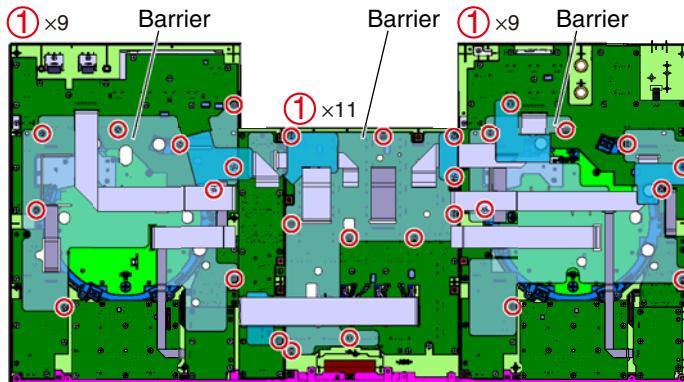
• Bottom view

[3-7] MIXER and EFSW Assys

① Remove the 2 screws.
(BBZ30P060FTC)
② Remove the 1 screw.
(BPZ30P100FTB)
③ Remove the 19 screws and then remove the EFSW and MIXER Assemblies.
(BPZ30P080FNI)

③ ×8   ③ ×11

② ①   ①
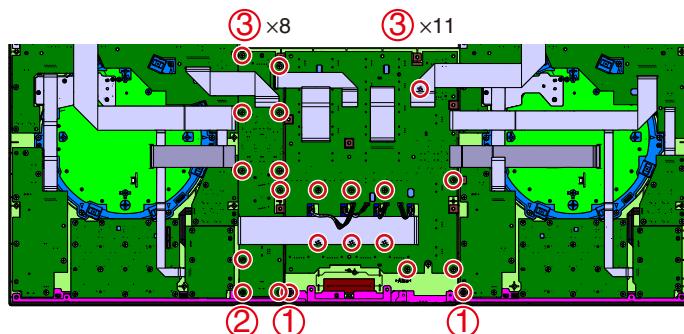
• Bottom view

④ Remove the 4 washers and 4 nuts and then remove the Stay.
⑤ Remove the Cap.
⑥ Remove the 24 washers and 24 nuts and then remove the Stay.
⑦ Disconnect the 4 flexible cables.
(CN4901, 7001 to 7003)
⑧ Remove the 4 Slide SW Caps (W).
⑨ Remove the 2 Caps.
⑩ Remove the 8 screws and then remove the Channel fader Section.
(BSZ20P040FTB)

⑩ ×8

Channel fader Section   ×4

Stay

⑥ ×24

④ ×4

Stay

Screw tightening order

❹ ❻ ❽ ❷

❸ ❺ ❼ ❶

⑨ Cap
×2

⑤ Cap

MIXER Assy

⑦   ⑦   ⑦

CN7002
CN7003   CN7001

⑦

×4 ⑧
Slide SW Cap (W)   CN4901   EFSW Assy

XDJ-XZ
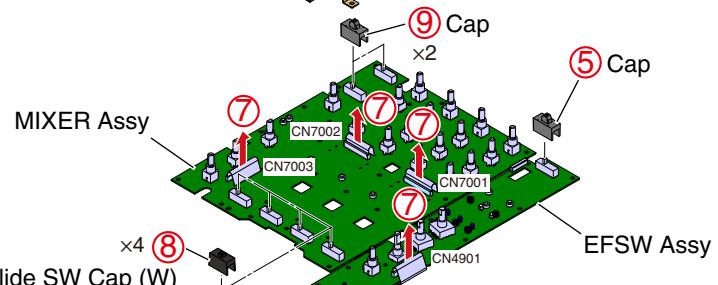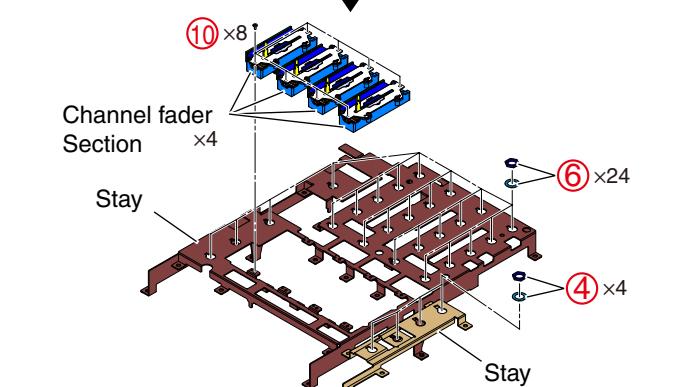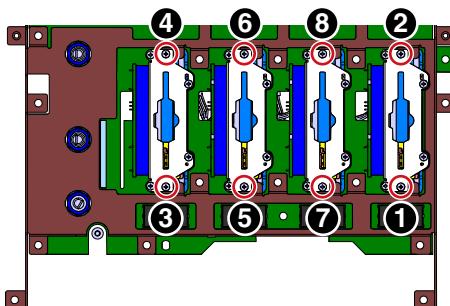
■ Position adjustment of FX select knob

Fine adjustment of the position is necessary for the EFSW Assy. According to the following, you tighten a screw and confirm it.

EFSW Assy

Turn the knob counterclockwise to the end

Turn the knob clockwise to the end

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

If it is held, adjust the position with reference to the Fig. on the right.
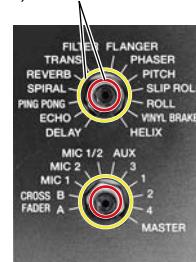
Turn over and insert the knob. Because it is temporarily fixed, it is necessary to prevent the substrate from being loaded. (Ex: Hold the back of the board) Rotate FX select knob in the direction of the arrow to the end. At that time, confirm if it is not held at a position deviated from the position of the command select part.
➡ If the knob is not held, it is OK.
　 If not, adjust the position of EFSW Assy and check again.

Align the screw holes of the Control panel and the board, and temporarily fix at this part.

[3-8] CHF1 to CHF4 Assys
① Remove the 4 screws.
(BPZ20P060FTC)
② Remove the CHF1 to CHF4 Assy with VR stay.
③ Remove the 2 screws.
(PMH20P040FTC)
④ Remove the CHF1 to CHF4 Assy.
⑤ Remove the 2 screws and then remove the Guide shaft (S) and Slider base Section.
(CPZ26P080FTC)
⑥ Remove the Slider base Section from Guide shaft (S).
⑦ Remove the 2 screws and then remove the Lever plate Section.
(BPZ20P060FTC)

① ×4　③ ×2

CHF1 to CHF4 Assy

VR stay

⑦ ×2

⑤ ×2

②

Lever plate

⑦

⑥

Slider base

Shaft holder

■ Locations of grease application

Lubricating oil (GYA1001)
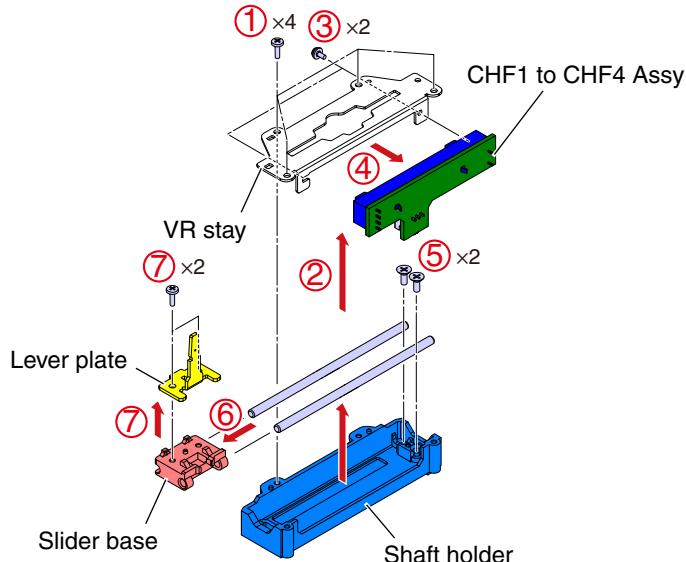
Note:
Greasing must be performed at a total of 8 points, 2 points each for the upper and bottom places of each shaft.
(0.4 to 1 mg per point × 8 points)
After applying grease, move the slider base back and forth from one end to the other for approximately 10 to 20 strokes, in order to fully spread the grease.

Top & Bottom　Top & Bottom

Top & Bottom　Top & Bottom

A
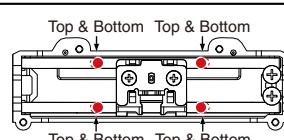
[3-9] XPAD Assy
① Remove the Sheet.
Caution:
Remove the Sheet first. Because the Lens is affixed to the Sheet, work is difficult.

② Disconnect the 1 flexible cable.
  (CN3401)
③ Remove the 4 screws and then remove the Holder.
  (BPZ30P080FNI)
④ Remove the XPAD Assy.
⑤ Remove the Tape, and separate the XPAD Assy and the Lens.
Caution:
Cannot be reused.

③ ×4   ②

Holder

④ CN3401

XPAD Assy

⑤ Tape

⑤ Lens

Sheet

①

• Top view

• Bottom view

B

C
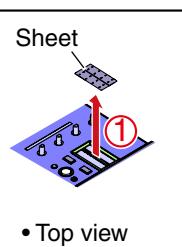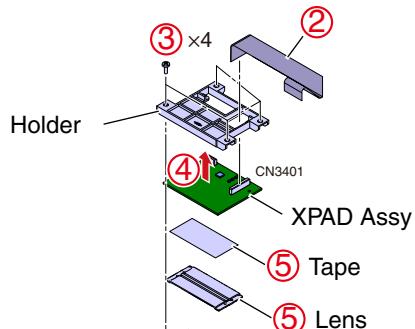
[3-10] PLAY1/2 and SER1/2 Assys
① Remove the 12 screws and then remove the PLAY1 and PLAY2 Assemblies.
  (BPZ30P080FNI)
② Remove the 8 screws and then remove the SER1 and SER2 Assemblies.
  (BPZ30P080FNI)

SER2 Assy   SER1 Assy

② ×4   ② ×4
① ×6   ① ×6

PLAY2 Assy   PLAY1 Assy

• Bottom view

D
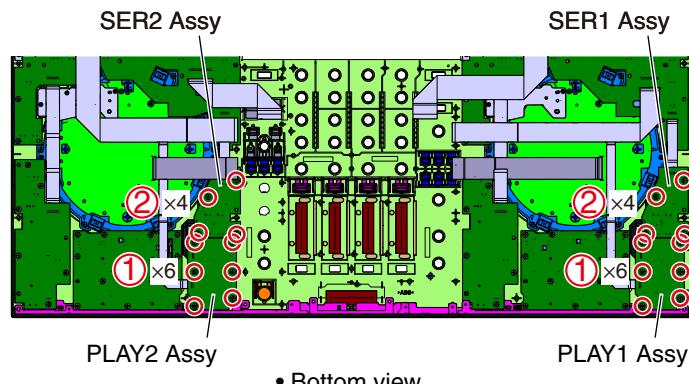
③ Disconnect the 2 flexible cables and 2 connectors.
  (CN7951, 7952, 8001, 8002, 8301, 8302, 9401, 9402)

SER1/2 Assy   ③

CN8302/9402

③ CN8301/9401

PLAY1/2 Assy

③ ③ CN7952/8002

CN7951/8001

E

F
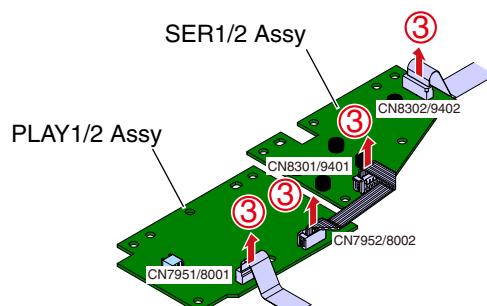
[3-11] TMP1/2 Assy

① Remove the 12 screws and then remove the TMP1 and TMP2 Assemblies.
(BPZ30P080FNI)

① ×6   ① ×6

TMP2 Assy   TMP1 Assy

• Bottom view

② Disconnect the 1 flexible cable.
(CN8351, 9451)

③

CN8351/9451

TMP1/2 Assy
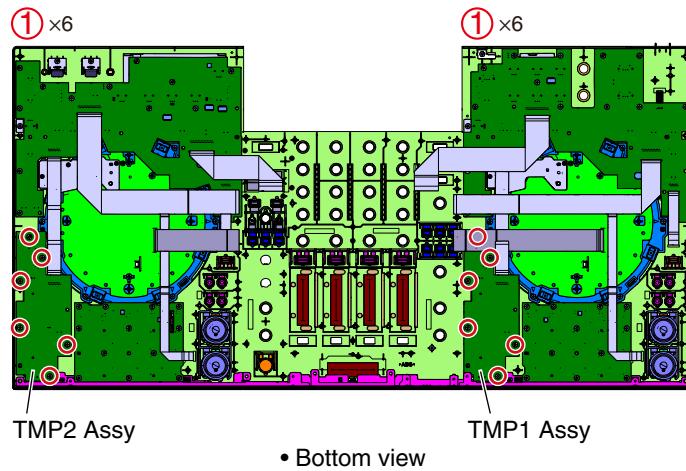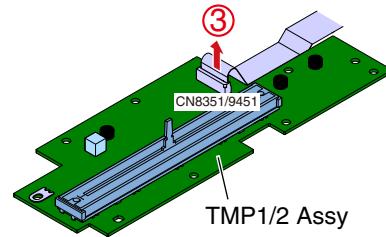
[3-12] PAD1 and PAD2 Assys

① Remove the 24 screws and then remove the PAD1 and PAD2 Assemblies.
(BPZ30P080FNI)

① ×12   ① ×12

PAD2 Assy   PAD1 Assy

• Bottom view
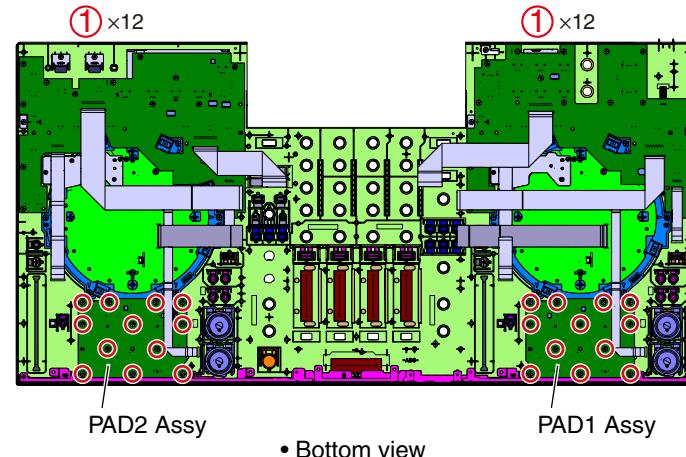
[3-13] DCK1 and DCK2 Assys

① Remove the 31 screws and then remove the DCK1 and DCK2 Assemblies. (BPZ30P080FNI)

① ×15 DCK2 Assy   ① ×16 DCK1 Assy

• Bottom view
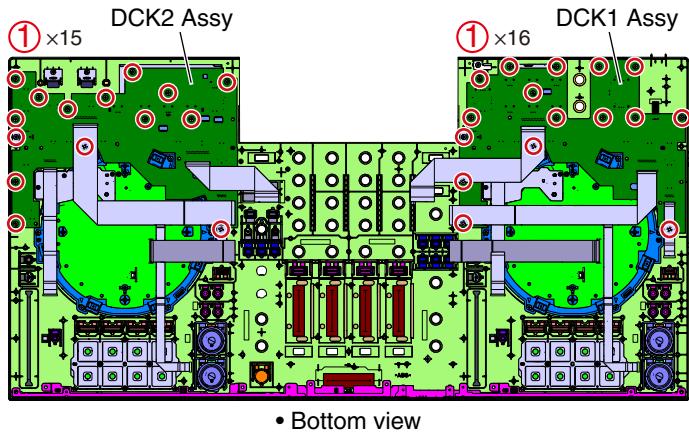
② Remove the 5 washers and 5 nuts and then remove the Stay.

③ Remove the 1 washer and 1 nut and then remove the VR stay S.

④ Disconnect the 4 flexible cables. (CN9001 to 9004)

② ×5

Stay

③

VR Stay S

④ ④ ④

CN9002

CN9003   CN9001

④

CN9004

DCK2 Assy
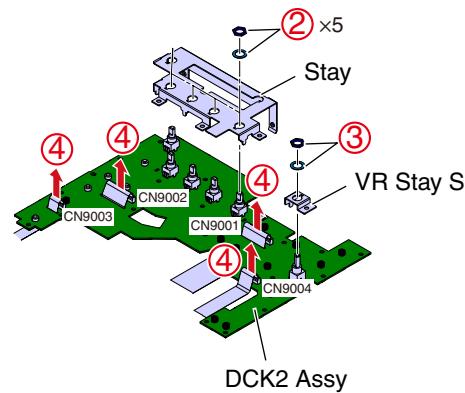
⑤ Remove the 6 washers and 6 nuts and then remove the Stay.

⑥ Remove the 1 washer and 1 nut and then remove the VR stay S.

⑦ Remove the 3 Caps.

⑧ Disconnect the 4 flexible cables and 1 connector. (CN8101 to 8105)

⑤ ×6

Stay

Cap ⑦
×2

⑥

VR Stay S

⑧ ⑧

CN8105

⑧   ⑧   ⑦ Cap

CN8103

CN8102   CN8101

⑧

CN8104

DCK1 Assy
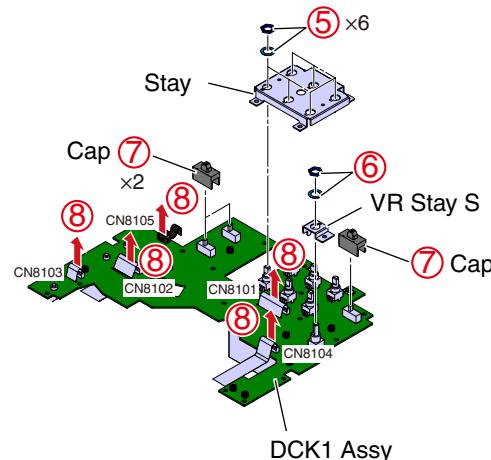
[3-14] JOG dial Section

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

Screw tightening order

① ×6   JOG dial Section   ① ×6   JOG dial Section

• Bottom view

② Disconnect the 2 flexible cables.
(CN3001, 3005, 3201, 3205)

③ Remove the Barrier.

Caution:
Cannot be reused.

②

②

③ Barrier

CN3001/3201

CN3005/3205
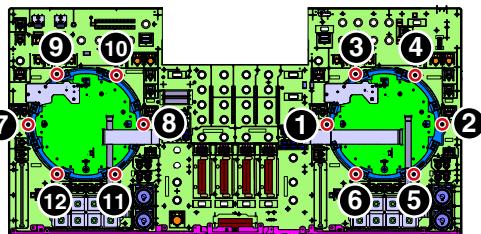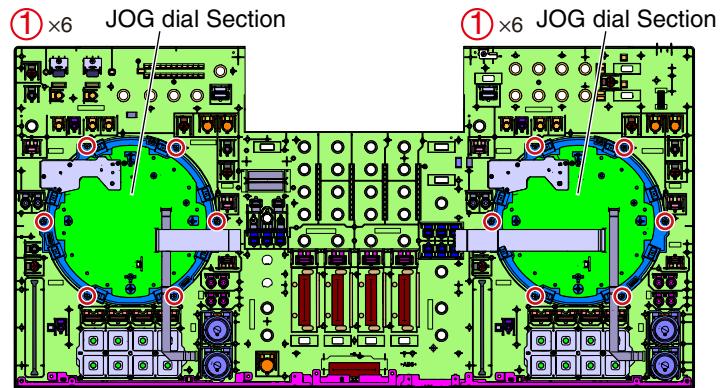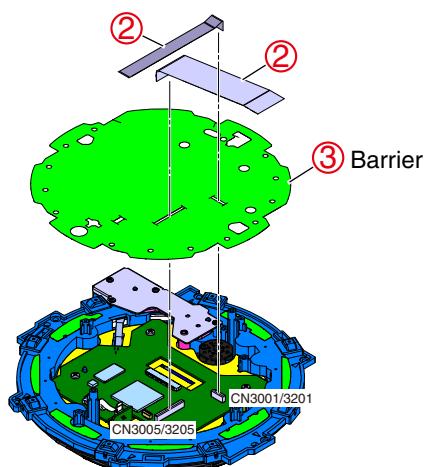
• Bottom view

[3-15] JOG dial rotation load adjustment

① Reconnect the PCB Assemblies on the Control panel Section.

② Connect the JOG dial Section with extension jig FFC.

Caution:
JOG dial rotary load adjustment executes
CN3001/CN3201 of JLCD Assy in
a state of non-connection.

② Extension jig FFC (GGD1903)

CN3005/3205   CN4503
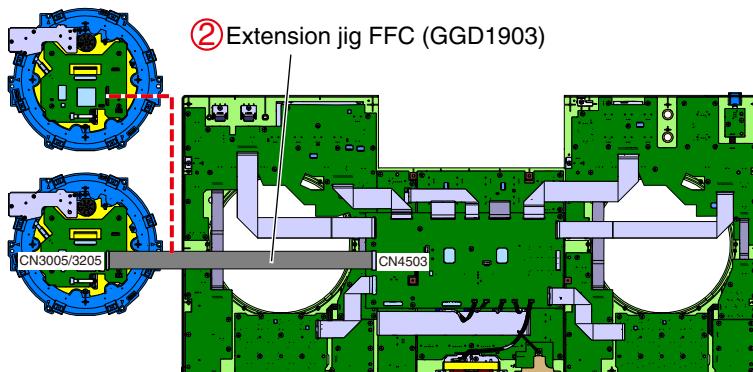
Adjustment

[4] JOG dial Section

[4-1] JLCD1/2 Assy and TFT LCD

① Disconnect the 2 flexible cables.
　(CN3004, 3006, 3204, 3206)
② Remove the 4 screws and then remove the JLCD1/2 Assy.
　(BPZ30P080FNI)
③ Disconnect the 1 flexible cable.
　(CN3003, 3203)

Screw tightening order

The other screws are random order.
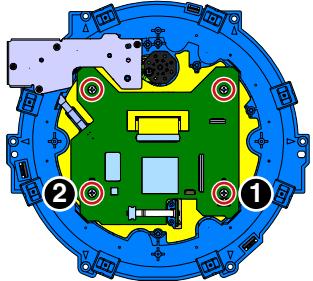
④ Remove the Barrier.
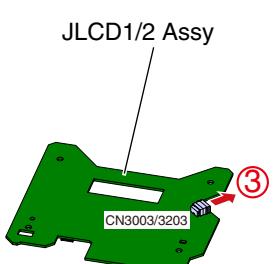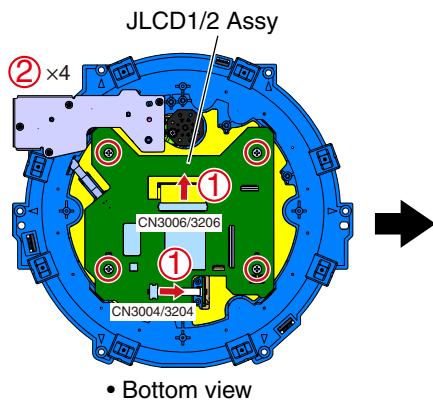
⑤ Remove the 4 screws and then remove the LCD Section.
　(BPZ30P080FNI)

Screw tightening order

JLCD1/2 Assy

② ×4

CN3006/3206

CN3004/3204

• Bottom view

JLCD1/2 Assy

③

CN3003/3203

• Top view

Barrier

④

• Bottom view

⑤ ×4

LCD Section

• Bottom view
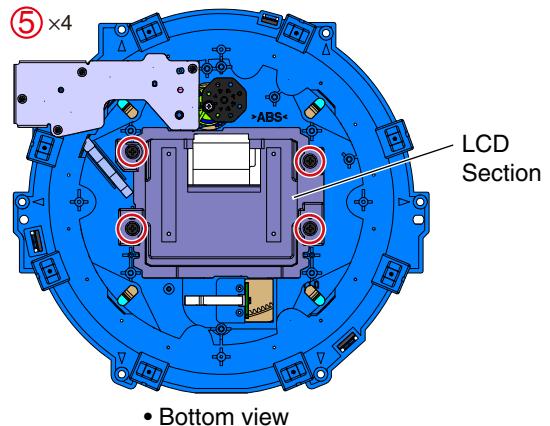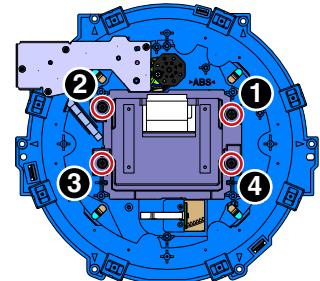
A

⑥ Remove the Sheet.
Caution:
Cannot be reused.

Matching position — Sheet

Matching position

⑥

B

C
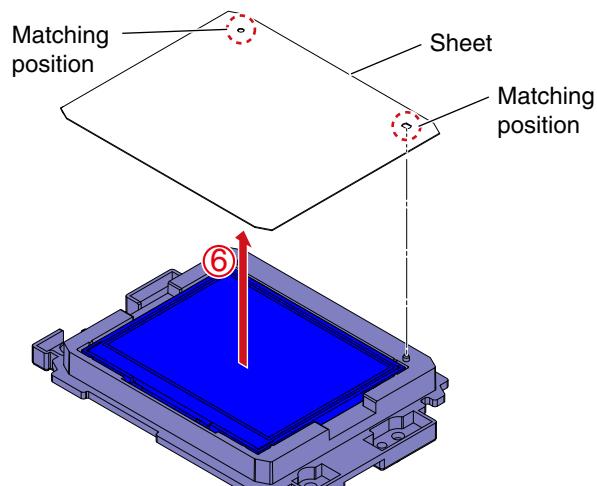
⑦ Remove the TFT LCD.

※ 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.

※

⑦ — TFT LCD

D

• Bottom view

■ Notes for Reassembling TFT LCD

E

Handling area

Do not touch and push

Handling area

② Align it in numerical order.
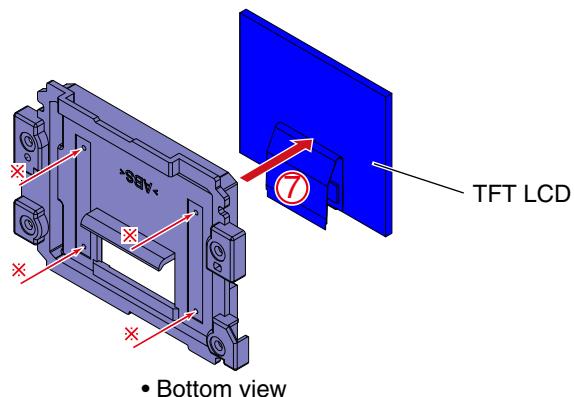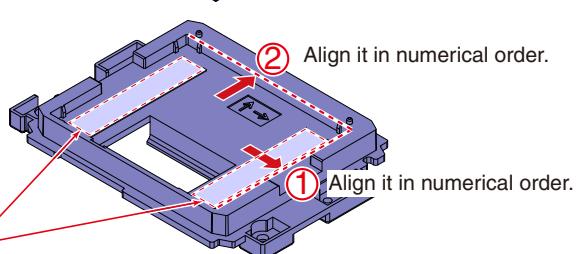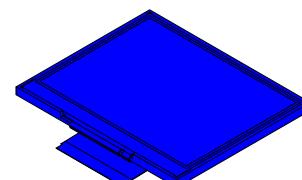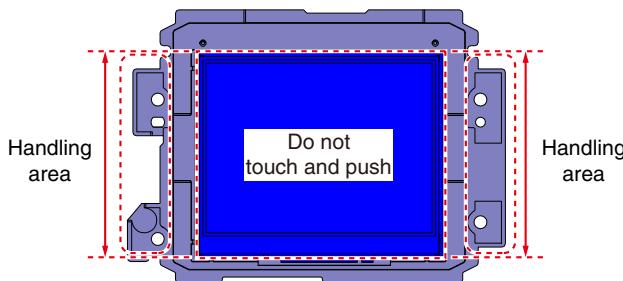
If the double side tape that is used to fix TFT LCD is damaged, remove it clearly. And, stick the new double side tape ((NITTO No. 500) 10 mm × 53 mm) at the position shown in the figure.

① Align it in numerical order.

F

[4-2] JOG1/2 Assy and Sheet SW

① Unhook the 3 hooks and then remove the
　 JOG B.
② Remove the JOG dial A Assy Section.

JOG B

JOG dial A
Assy Section
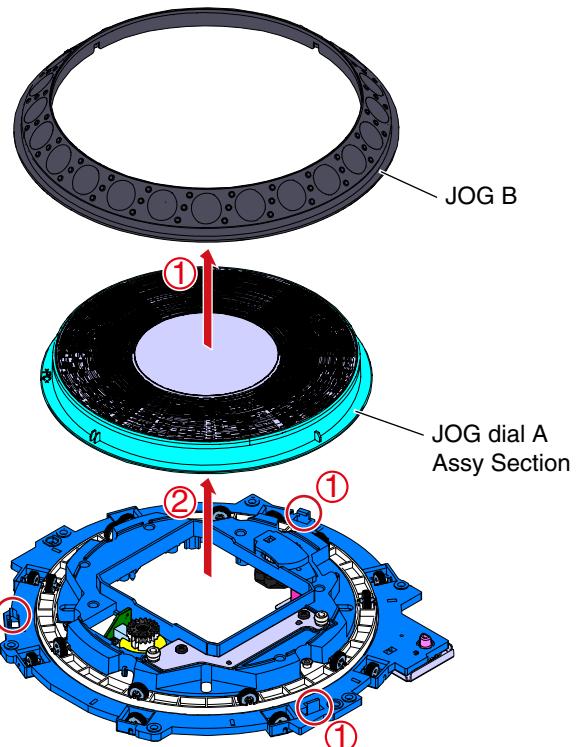
③ Remove the 2 screws and then remove the
　 JOG1/2 Assy.
　 (IPZ20P080FTC)

③ ×2

JOG1/2 Assy

■ Notes for Reassembling

The plate can be inserted between the slit properly,
and turn smoothly.

Plate
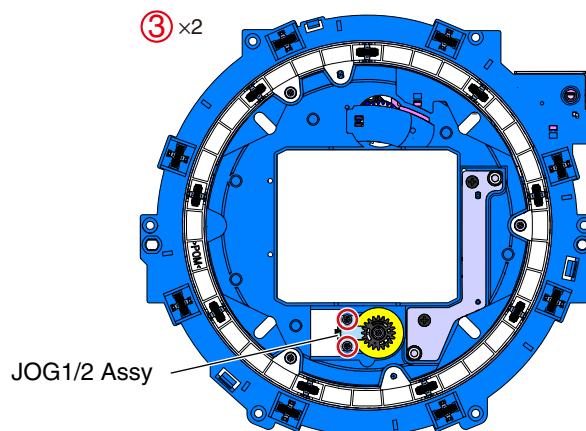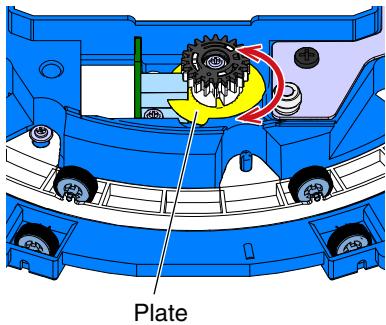
A

④ Remove the 3 screws and then remove the
SW ring Section.
(DBA1265)

Note:
Be careful not to lost SW spring.

⑤ Remove the Sheet SW.

④ ×3

SW ring Section

SW spring
×3

Sheet SW

⑤
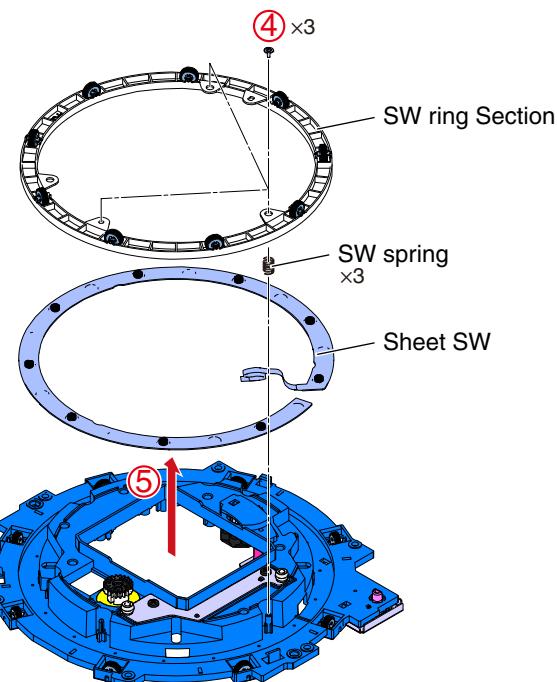
■ Notes on replacing the Sheet SW

• Styling of the Sheet SW

Bend it to the direction
of the arrow.
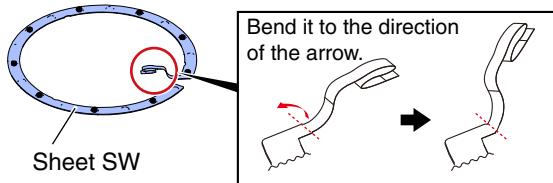
Sheet SW

• Pasting position of the SW cushion HH48/2

SW cushion HH48/2
×9
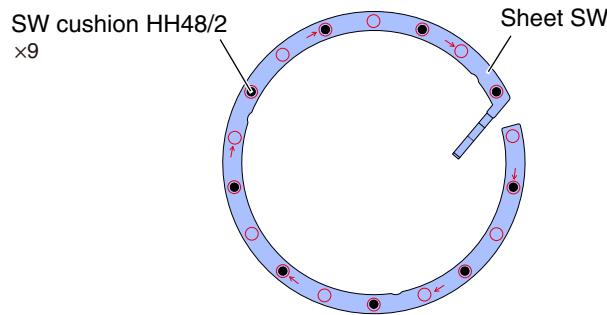
Sheet SW

• 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.

Sheet SW

Sheet SW

Rib

Rib

Holder
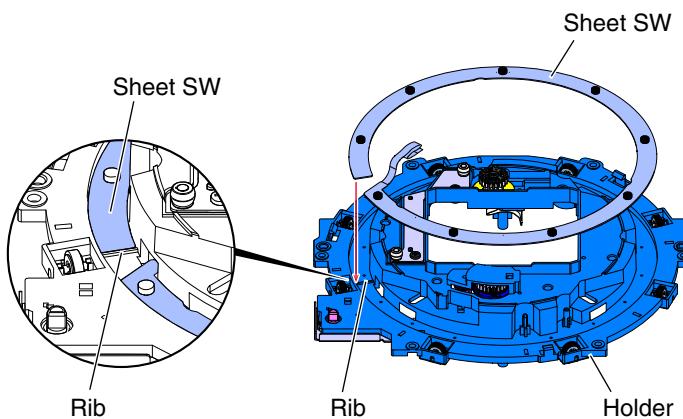
■ Alignment of the Plate

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.

Link gear B

Dial gear

Plate

Link gear A
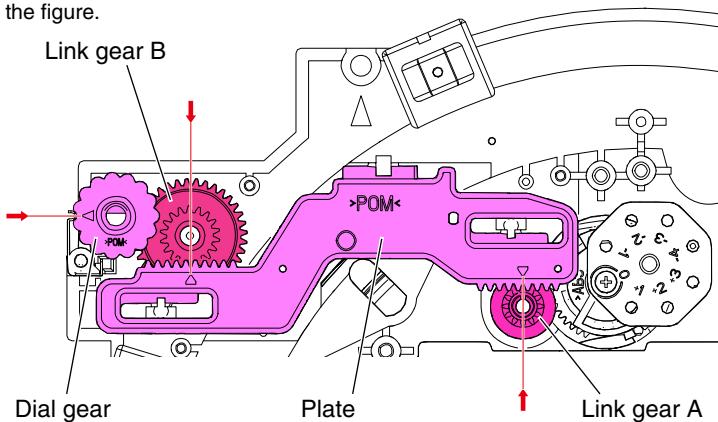
■ Reference information

Screw tightening order
The other screws are random order.

Plate
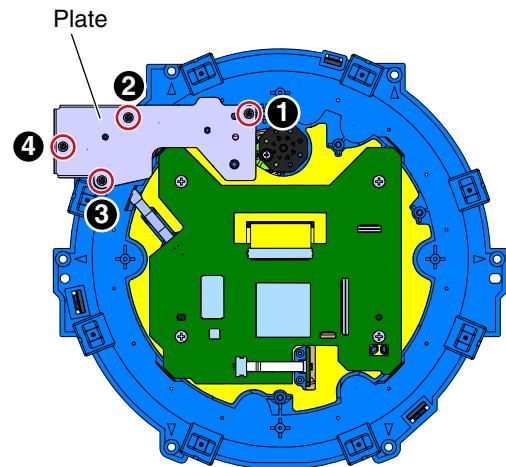
■ Locations of grease application

• Base

Lubricating oil
(GYA1001)
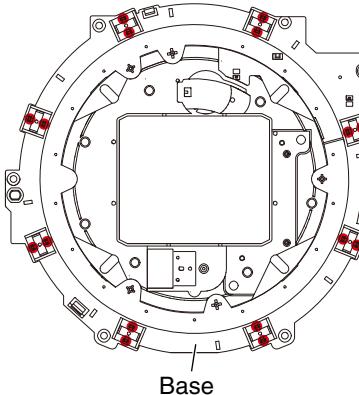
Base
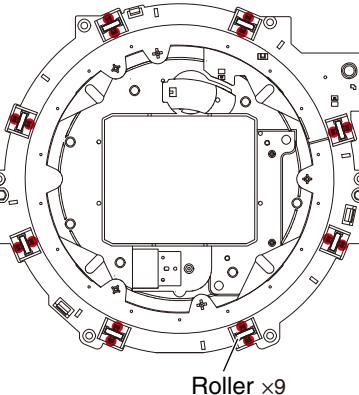
Roller ×9

• Base, Stay Assy/JOG

Stay Assy/JOG

Base

Lubricating oil
(GEM1106)

Lubricating oil
(GYA1001)
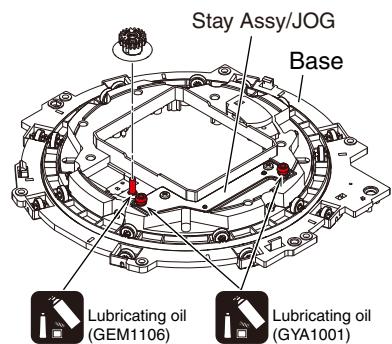
• Gear/LD

Lubricating oil
(GEM1106)

: Do not apply
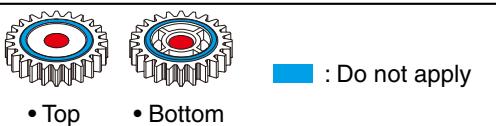
• Top   • Bottom
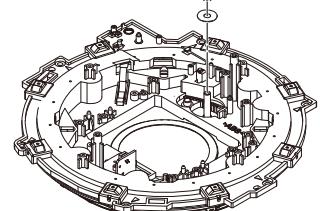
• JOG dial A Assy

Lubricating oil
(GEM1106)

Only outside

Only outside

Only outside

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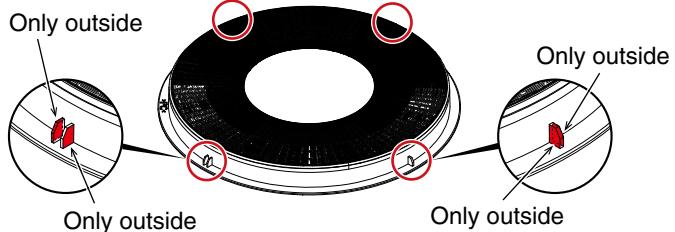
8. EACH SETTING AND ADJUSTMENT
8.1 NECESSARY ITEMS TO BE NOTED

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)
  IC1102 (MAIN Assy)

  ➡ • Confirmation of the version of the firmware
  - Updating to the latest version of the firmware
    (8.2 UPDATING OF THE FIRMWARE)
  - Writing the serial number of the unit
    (8.5 WRITING THE SERIAL NUMBER OF THE UNIT)
  - Factory reset
    (Be changed user setting to condition before the repair
     when be possible)

- UCOM Assy
  (ERP UCOM: IC4502)
  (PANELM UCOM: IC4505)

  ➡ • Confirmation of the version of the firmware
  - Updating to the latest version of the firmware
    (8.2 UPDATING OF THE FIRMWARE)

- JOG LCD, LCD sheet and peripheral parts
- IC storing calibration value
  (PCB Assy)
  IC3003 (JLCD1 Assy)
  IC3203 (JLCD2 Assy)

  ➡ • Confirmation of the version of the firmware
  - Updating to the latest version of the firmware
    (8.2 UPDATING OF THE FIRMWARE)
  - JOG LCD calibration
    (6.2 LCD CALIBRATION MODE)

- JOG dial section component part

  ➡ • Confirmation of the specified value by JOG dial Rotation
    Time measurement mode
    (8.3 JOG DIAL ROTATION LOAD ADJUSTMENT)

- X-PAD

  ➡ • Confirmation of the X-PAD operation
    (6.1 TEST MODE ⑧ MODE 8: X-PAD Test)

- Touch panel

  ➡ • Confirmation of the Touch panel operation
    (6.1 TEST MODE ⑨ MODE 9: Touch panel Test)

- Tempo slider VR
  VR8352 (TMP1 Assy)
  VR9452 (TMP2 Assy)

  ➡ • TEMPO ZERO POINT ADJUSTMENT
    (8.4 TEMPO ZERO POINT ADJUSTMENT)

74

XDJ-XZ

8.2 UPDATING OF THE FIRMWARE

Note:

If the power cord is disconnected during updating, perform updating again after the unit is turned on the next time.
Then you can operate the unit normally.
You cannot operate the unit normally without reperforming updating.

■ Procedure

① Copy an update file (XDJXZ.UPD) to a root folder of USB device.

② Turn on the power, pressing the USB1 "USB1 STOP", DECK 2 "CUE/LOOP CALL ► (LOOP 2X)" buttons, enter the service update mode for firmware.
(Be sure to hold the ⏻ switch pressed until the unit starts up.)

⏻ switch   USB1 STOP button

CUE/LOOP CALL ► (LOOP 2X) button

③ Insert the USB device into the USB 1 slot which you wrote in an update file at with step ①.

④ Update is started.

```
Ver. 1.00  → Ver.  1.01

MAIN  system:****→****  apt:****→****        20%

ERP  /SUB                                    20%

MIXER                                        20%

JOG L                                        20%

JOG R                                        20%
```
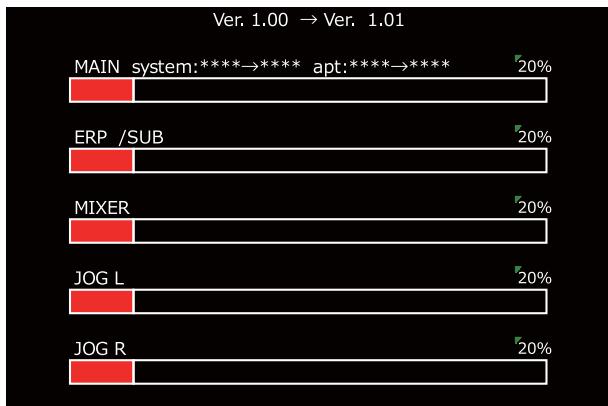
⑤ Update is completed, and displayed "Firmware update is complete."

```
Ver. 1.00  → Ver.  1.01

MAIN  system:****→****  apt:****→****       100%

ERP  /SUB                                   100%

MIXE            Firmware update is complete.     100%
                Turn the power off/on before using.

JOG L                                       100%

JOG R                                       100%
```

XDJ-XZ

75
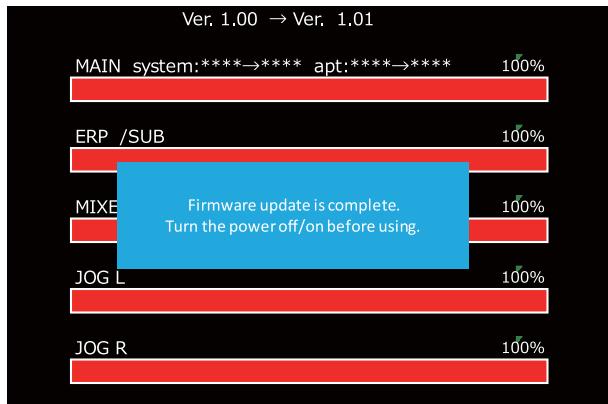
8.3 JOG DIAL ROTATION LOAD ADJUSTMENT

■ Measurement content

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

■ Indications

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

② Maximum speed ③ Measured value

① Number of measurement sessions

[JOG TEST]
10 18.5 : 170 ms
AVR : 180ms
⑤ Judgement → JUDG : OK

[JOG TEST]
10 **18.5 : 170 ms**
AVR : 180ms
JUDG : OK

④ Average value
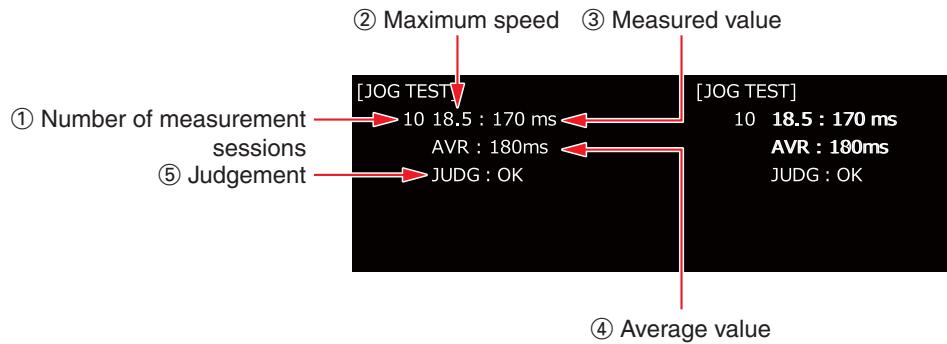
※About the connection during measurement

When doing the measurement, remove the JOG dial. And, connect CN4503 of UCOM Assy and CN3005 (or CN3205)
of the JOG dial with the Extension jig FFC (GGD1903).
If not remove it, you cannot operate the Adjust plate.
(See "7. DISASSEMBLY [3-15] JOG dial rotation load adjustment" for more details.)

■ Procedures

(1) After reassembly, perform manual run-in rotations for 20–30 seconds so that grease will spread evenly and entirely.
(2) Enter the mode for JOG dial Rotation Load Adjustment.
While holding the DECK 2 MEMORY and TEMPO buttons pressed, press the ⏻ switch to turn the unit on.
(Be sure to hold the u switch pressed until the unit starts up.)
(3) Set JOG ADJUST knob for the center.
(4) Turn the JOG dial swiftly. Always turn the JOG dial in the right direction.
(5) The slowdown time (unit: msec) will be measured.
(6) Perform measurement 5 times. Confirm that a judgment indicated by a display is "OK".
(value of standard: 170 ±20 msec)
When the rotation decreace time is coming off from spec (NG), the adjustment value of Adjust plate is changed,
and confirm it again.

Rotary selector

⏻ switch

RELOOP/EXIT button

MEMORY button

RELOOP/EXIT button

JOG ADJUST knob

JOG ADJUST knob

TEMPO button

SHIFT button

SHIFT button

■ Load adjustment method

Remove the screw fixing the Adjust plate, then screw it into the hole corresponding to the value (-1, -2, -3, -4, +1, +2 or +3) for a load to be added:

-1, -2, -3, -4   : To decrease the load
+1, +2, +3   : To increase the load

To decrease the load

Adjust plate

To increase the load
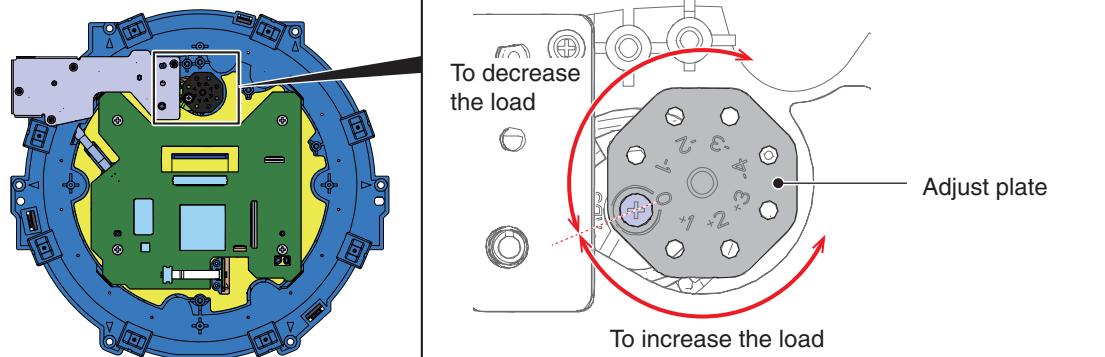
■ Reset

Press SHIFT button and Rotary selector : all data is reset only on the DECK side where SHIFT button is pressed.

■ Measurement history

The measurement data (②, ③, and ④ above) from each measurement session will be stored in memory for up to 99 sessions. To display measurement data, turn the Rotary selector while holding the SHIFT button of each DECK pressed.

XDJ-XZ

8.4 TEMPO ZERO POINT ADJUSTMENT

A

■ Necessary Adjustment Points

When	Adjustment points
Exchange the TEMPO SLIDER VR	➡ VR8352, VR9452 (Zero Point ADJ)

■ Jigs

B

- ⊖ Precise screwdriver (small)
- Digital multimeter which can be measured to 0.1mV.
- Insulation sheet (The thing that is bigger than PCB)
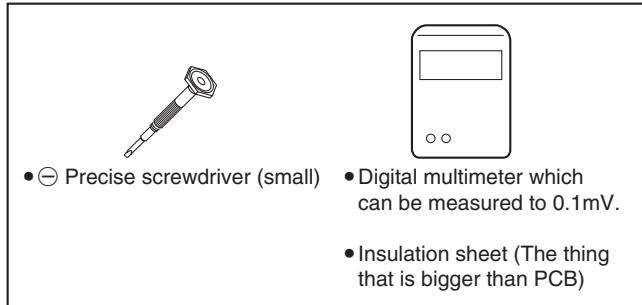
■ Adjustment and Check Points

TEMPO knob
(TMP1 or TMP2 Assy)

C

Zero Point ADJ.

Notes:

Perform the adjustment before TMP1 or 2 Assy mounting.
Repeat the adjustment until the voltage becomes 0 ±5 mV.

① Insert the insulation sheet between TMP1 or 2 Assy and the main unit.

D

TMP1 or 2 Assy

Insulation sheet

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

E

Knob section of slide VR

CENTER POSITION

F
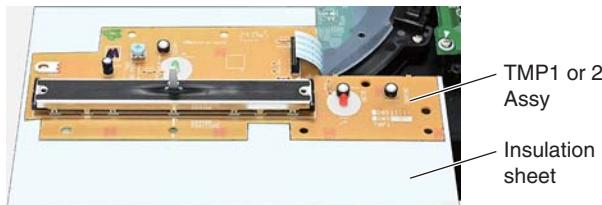
③ Adjust it so that turn VR8352 or VR9452, and the voltage of the digital multimeter becomes 0 ±5 mV.
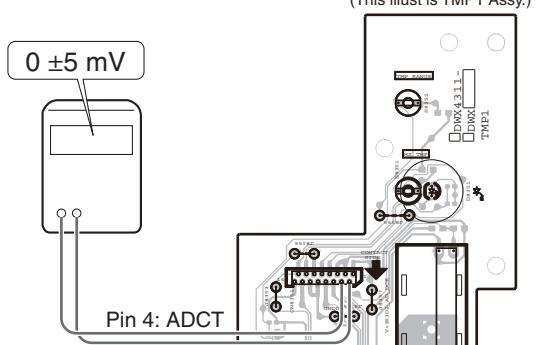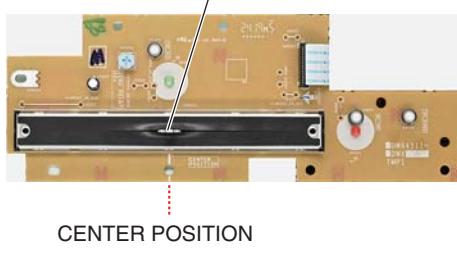
TMP1 or 2 ASSY

(This illust is TMP1 Assy.)

0 ±5 mV

Pin 4: ADCT
Pin 2: ADIN

VR8352 or VR9452
(ZERO POINT ADJ)

SIDE A

8.5 WRITING THE SERIAL NUMBER OF THE UNIT

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

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

Procedure
① Turn on PC, and click "XDJZX_SNW.exe" in the generated folder. When the software is started, untick "Label print".
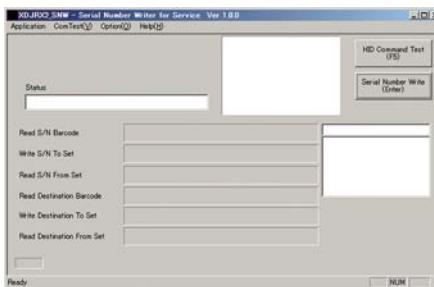
② Connect the unit with a PC via a USB B cable.

③ While holding the DECK 1 MEMORY and DECK 1 TEMPO buttons pressed, press the ⏻ switch to turn the unit on.
(Start up the unit in Test mode.)

④ Push [Serial Number Write] button, display serial input dialog (first time).

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

*Reference screen
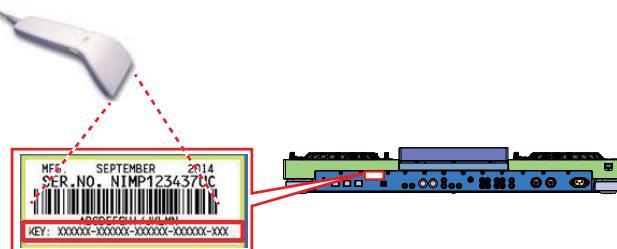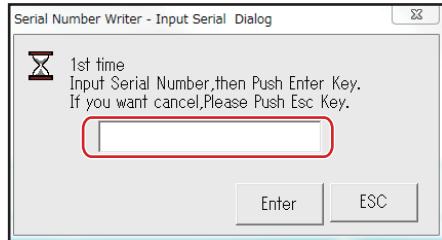
⑤ Again display serial input dialog (second time), enter serial number by handwork or barcode reader, and push "Enter" like Step ④.
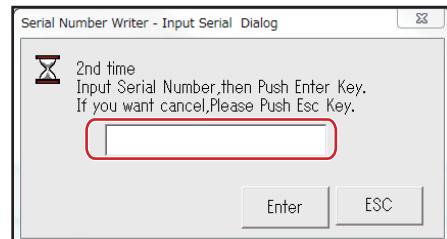
⑥ Dialog is displayed for the input of Destination Code, you need to enter in accordance with following table.

Model Name	Input Destination Code	LANGUAGE
XDJ-ZX/LWSYXJ	XDJ-ZX/L	ENGLISH
XDJ-ZX/UXJCB	XDJ-ZX/U	ENGLISH
XDJ-ZX/AXJ	XDJ-ZX/A	CHINESE

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

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

The unit is already starting in Test mode [Mode 1 VERSION INFORMATION]. Confirm that "LANGUAGE" is "ENGLISH (AXJ model: CHINESE)" and "SERIAL" is the same as the serial number of the unit.

8.6 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.

Category	Item for user's Setting	Setting Value (The factory default settings are indicated in red letters.)	Part Name	Content to be Stored
DECK	LOAD LOCK☆	LOCK / UNLOCK		
	NEEDLE LOCK	LOCK / UNLOCK		
	QUANTIZE BEAT VALUE(DECK)☆	1/8 Beat, 1/4 Beat, 1/2 Beat, 1 Beat		
	HOT CUE AUTO LOAD☆	ON / rekordbox SETTING / OFF		
	HOT CUE COLOR	ON / OFF		
	AUTO CUE LEVEL	-78 dB, -72 dB, -66 dB, -60 dB, -54 dB, -48 dB, -42 dB, -36 dB, MEMORY		
	SLIP FLASHING	ON / OFF		
	ON AIR DISPLAY	ON / OFF		
	JOG DISPLAY MODE	AUTO / INFO / SIMPLE / ARTWORK		
	JOG RING BRIGHTNESS	OFF / 1 / 2		
	JOG RING INDICATOR	ON / OFF		
	VINYL SPEED ADJUST	TOUCH&RELEASE / TOUCH / RELEASE		
	AUTO PLAY MODE	ON / OFF		
MIXER	EQUALIZER CURVE	EQUALIZER / ISOLATOR		
	CHANNEL FADER CURVE	[◢]CURVE1 / [◢]CURVE2 / [■]CURVE3		
	CROSS FADER CURVE	[⟋]CURVE1 / [⟋]CURVE2 / [✕]CURVE3		
	MASTER EQUALIZER	MASTER OUT / MASTER AND BOOTH OUT		[UTILITY] setting
	MASTER ATTENUATOR	-12 dB, -6 dB, 0 dB		
	BOOTH MONITOR ATTENUATOR	-12 dB, -6 dB, 0 dB		
	PEAK LIMITER	ON / OFF		
	MIC OUT TO BOOTH	ON / OFF	IC1102 (NSP) (MAIN Assy)	
	TALK OVER MODE	ADVANCED / NORMAL		
	TALK OVER LEVEL	-24 dB, -18 dB, -12 dB, -6 dB		
	HEADPHONES MONO SPLIT/STEREO	MONO SPLIT / STEREO		
	USB OUTPUT LEVEL	-19 dB, -15 dB, -10 dB, -5 dB		
	CH3 CONTROL TONE	PHONO / LINE		
	CH4 CONTROL TONE	PHONO / LINE		
	MIXER MIDI MESSAGE ※	ON / OFF		
GENERAL	LANGUAGE	Language of each destination		
	PAD/BUTTON BRIGHTNESS	1 / 2 / 3 / 4		
	LCD BRIGHTNESS	1 / 2 / 3 / 4 / 5		
	JOG LCD BRIGHTNESS	1 / 2 / 3 / 4 / 5		
	SCREEN SAVER	ON / OFF		
	TOUCH DISPLAY CALIBRATION	-		
	AUTO STANDBY	ON / OFF		
	VERSION No.	SYSTEM Ver.		
	AUTO CUE	ON / OFF		
	Vinyl MODE	ON / OFF		
	TIME MODE	TIME / REMAIN		
	DECK QUANTIZE	ON / OFF		Key status
	TEMPO RANGE	±6 / ±10 / ±16 / WIDE		
	MASTER TEMPO	ON / OFF		
	FX QUANTIZE	ON / OFF		

※: A factory shipment initial value is changed to "ON" after Ver1.10.

■ Sheet for confirmation of the user setting

LOAD LOCK		NEEDLE LOCK		QUANTIZE BEAT VALUE(DECK)				HOT CUE AUTO LOAD		
LOCK	UNLOCK	LOCK	UNLOCK	1/8 Beat	1/4 Beat	1/2 Beat	1 Beat	ON	rekordbox SETTING	OFF

HOT CUE COLOR		AUTO CUE LEVEL								
ON	OFF	-78 dB	-72 dB	-66 dB	-60 dB	-54 dB	-48 dB	-42 dB	-36 dB	MEMORY

SLIP FLASHING		ON AIR DISPLAY		JOG DISPLAY MODE				JOG RING BRIGHTNESS		
ON	OFF	ON	OFF	AUTO	INFO	SIMPLE	ARTWORK	OFF	1	2

JOG RING INDICATOR		VINYL SPEED ADJUST			AUTO PLAY MODE		EQUALIZER CURVE	
ON	OFF	TOUCH&RELEASE	TOUCH	RELEASE	ON	OFF	EQUALIZER	ISOLATOR

CHANNEL FADER CURVE			CROSS FADER CURVE			MASTER EQUALIZER	
CURVE1	CURVE2	CURVE3	CURVE1	CURVE2	CURVE3	MASTER OUT	MASTER AND BOOTH OUT

MASTER ATTENUATOR			BOOTH MONITOR ATTENUATOR			PEAK LIMITER		MIC OUT TO BOOTH	
-12 dB	-6 dB	0 dB	-12 dB	-6 dB	0 dB	ON	OFF	ON	OFF

TALK OVER MODE		TALK OVER LEVEL				HEADPHONES MONO SPLIT/STEREO	
ADVANCED	NORMAL	-24 dB	-18 dB	-12 dB	-6 dB	MONO SPLIT	STEREO

USB OUTPUT LEVEL				CH3 CONTROL TONE		CH4 CONTROL TONE		MIXER MIDI MESSAGE	
-19 dB	-15 dB	-10 dB	-5 dB	PHONO	LINE	PHONO	LINE	ON	OFF

PAD/BUTTON BRIGHTNESS				LCD BRIGHTNESS				
1	2	3	4	1	2	3	4	5

JOG LCD BRIGHTNESS					SCREEN SAVER		AUTO STANDBY	
1	2	3	4	5	ON	OFF	ON	OFF

AUTO CUE		Vinyl MODE		TIME MODE		DECK QUANTIZE	
ON	OFF	ON	OFF	TIME	REMAIN	ON	OFF

| TEMPO RANGE				MASTER TEMPO		FX QUANTIZE	
±6	±10	±16	WIDE	ON	OFF	ON	OFF

XDJ-XZ

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
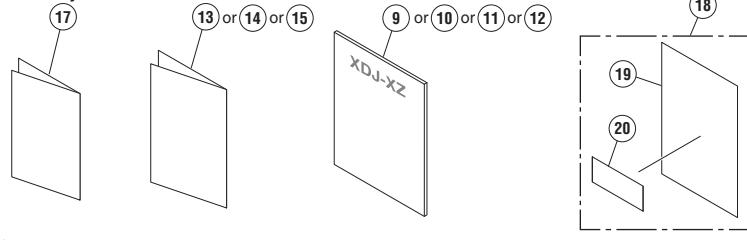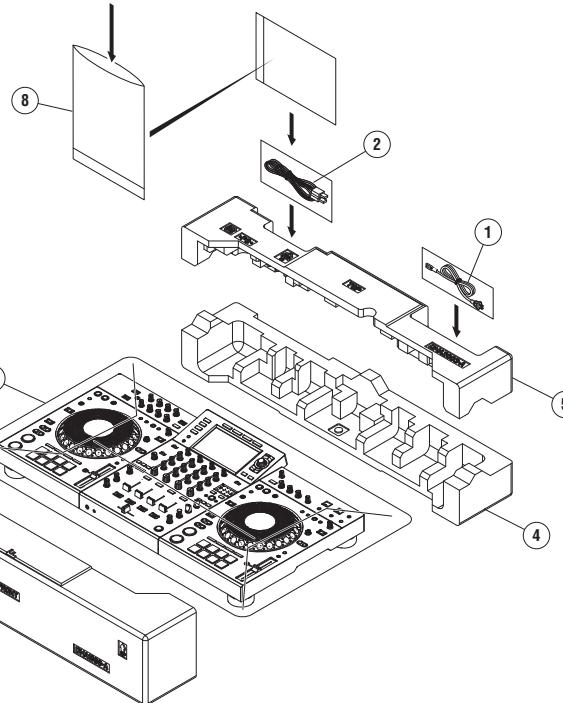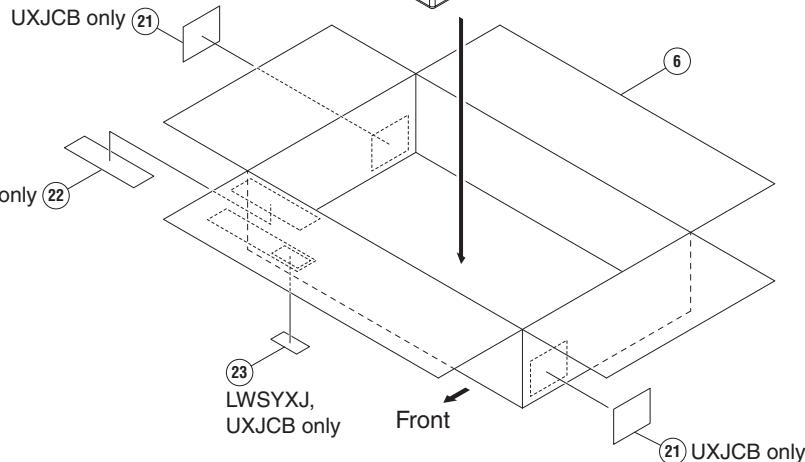
(1) PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.
⚠	1	Power Cord	See Contrast table (2)
	2	USB Cable	DDE1150
	3	Packing Pad	DHA1999
	4	Packing Pad	DHA2000
	5	Packing Pad	DHA2003
	6	Packing Case	See Contrast table (2)
	7	Mirror Mat	DHL1201
NSP	8	Polyethylene Bag	AHG7117
	9	Operating Instructions (Quick nStart Guide)	See Contrast table (2)
	10	Operating Instructions (Quick nStart Guide)	See Contrast table (2)
	11	Operating Instructions (Quick nStart Guide)	See Contrast table (2)
	12	Operating Instructions (Quick nStart Guide)	See Contrast table (2)

Mark	No.	Description	Part No.
	13	Sub Manual	See Contrast table (2)
	14	Sub Manual	See Contrast table (2)
	15	Sub Manual	See Contrast table (2)
	16	• • • • •	
NSP	17	Warranty	See Contrast table (2)
NSP	18	1..License Key Card Assy	DEA1046
NSP	19	2..Leaflet	DRM1410
NSP	20	2..rekordbox dj license key card	DXA2304
	21	Label	See Contrast table (2)
	22	Label	See Contrast table (2)
NSP	23	Label	See Contrast table (2)

(2) CONTRAST TABLE

XDJ-XZ/AXJ, LWSYXJ and UXJCB are constructed the same except for the following:

Mark	No.	Symbol and Description	XDJ-XZ/AXJ	XDJ-XZ/LWSYXJ	XDJ-XZ/UXJCB
⚠	1	Power Cord	DDG1114	ADG1244	DDG1108
	6	Packing Case	DHG3732	DHG3731	DHG3731
	9	Operating Instructions (Quick nStart Guide)(En)	Not used	Not used	DRH1539
	10	Operating Instructions (Quick nStart Guide)(En, Fr, De, It)	Not used	DRH1540	Not used
	11	Operating Instructions (Quick nStart Guide)(Nl, Es, Pt, Ru)	Not used	DRH1541	Not used
	12	Operating Instructions (Quick nStart Guide)(Zhcn)	DRH1542	Not used	Not used
	13	Sub Manual	DRH1594	Not used	Not used
	14	Sub Manual	Not used	DRH1592	DRH1592
	15	Sub Manual	Not used	DRH1593	DRH1593
NSP	17	Warranty	Not used	DRY1270	Not used
	21	Label	Not used	Not used	DRW2831
	22	Label	Not used	Not used	DRW2839
NSP	23	Label	Not used	DRW2838	DRW2838

9.2 BOTTOM SECTION

A

18

Refer to
"9.4 CONTROL PANEL SECTION (1/3)".

Refer to
"9.8 LCD SECTION".

b

B

C

B

A 3

13

1 8

25 ×2

25

4

25

E

4

12

27 ×2

Accessories
of VR

24 ×2

9

7

20

11

10

2

D

25 ×4

a

25 ×5

19

C

25 ×6

A 3

A 1

B

A 2

5

25 ×6

6

Refer to
"9.3 CHASSIS SECTION".

a

23 ×3

23
×3

23 ×6

E

b

23 ×3

26 ×4

21

17

15

A 1

26 ×2

A 2

25 ×3

14

3

26 ×4

F

15

23 ×2

26 ×3

26 ×2

26 ×2

非接触面 接触面

NON-CONTACT SIDE / CONTACT SIDE

XDJ-XZ
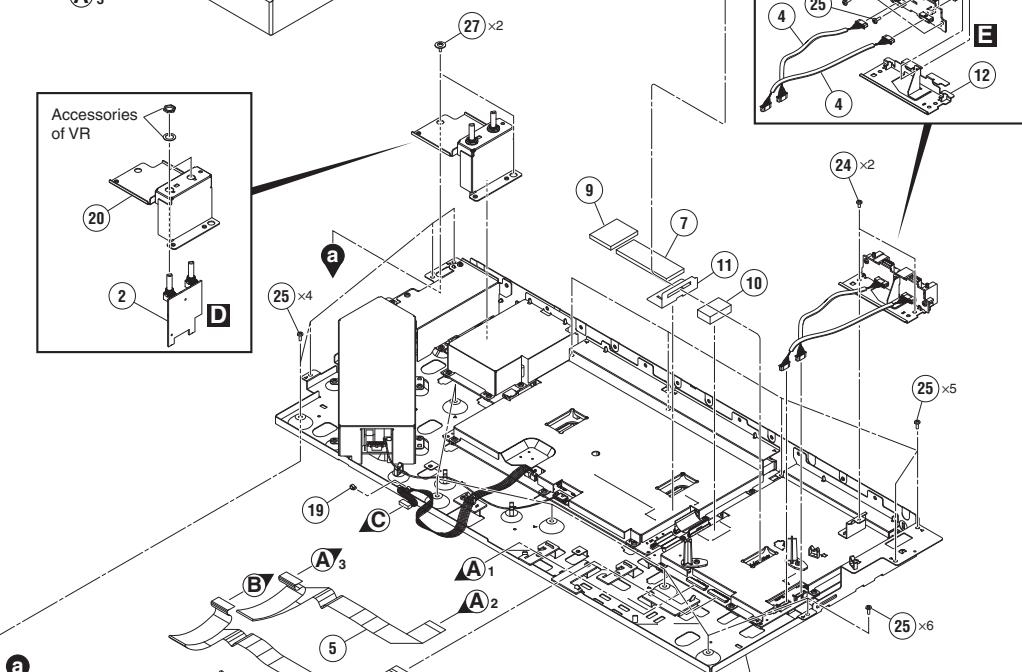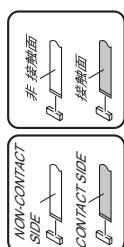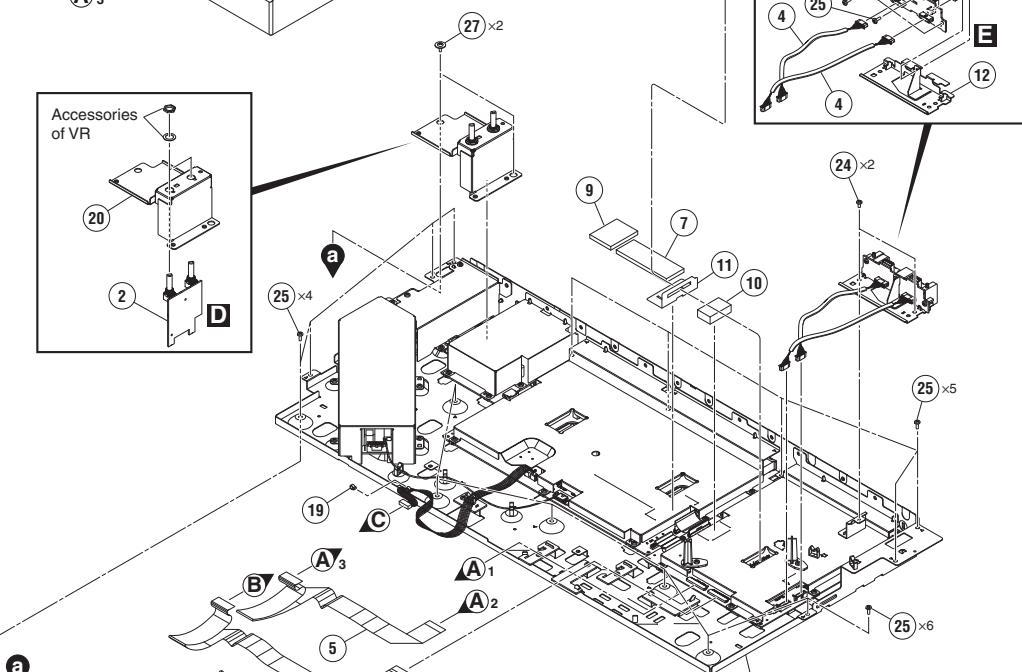
(1) BOTTOM SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	USBA Assy	DWX4294
	2	MCTR Assy	DWX4302
	3	STL4 Assy	DWX4322
	4	Shielded Conn-Cable	DDA1094
	5	FFC	DDD1952
	6	FFC	DDD1953
	7	Cushion/FFC	DEC3531
	8	Gasket/JOG	DEC3562
	9	Cushion	DEC3592
	10	Cushion	DEC3887
	11	Barrier	DEC3888
	12	Stay	DNH3311
	13	Base	DNK6708
⚠	14	Chassis	DNK6862
	15	Insulator Assy	DXB2131

Mark	No.	Description	Part No.
	16	• • • • •	
	17	Holder	VEC1355
	18	Knob	DAA1442
	19	Binder	ZCA-SKB90BK
	20	Stay	DNH3429
	21	Rear Panel	See Contrast table (2)
	22	• • • • •	
	23	Screw	BBZ30P060FTB
	24	Screw	BBZ30P060FTC
	25	Screw	BPZ30P080FNI
	26	Screw	BPZ30P100FTB
	27	DM Screw (FTC)	DBA1260

(2) CONTRAST TABLE

XDJ-XZ/AXJ, LWSYXJ and UXJCB are constructed the same except for the following:

Mark	No.	Symbol and Description	XDJ-XZ/AXJ	XDJ-XZ/LWSYXJ	XDJ-XZ/UXJCB
	21	Rear Panel	DAH3271	DAH3268	DAH3269

A

B

C

D

E

F

XDJ-XZ

85

9.3 CHASSIS SECTION

A
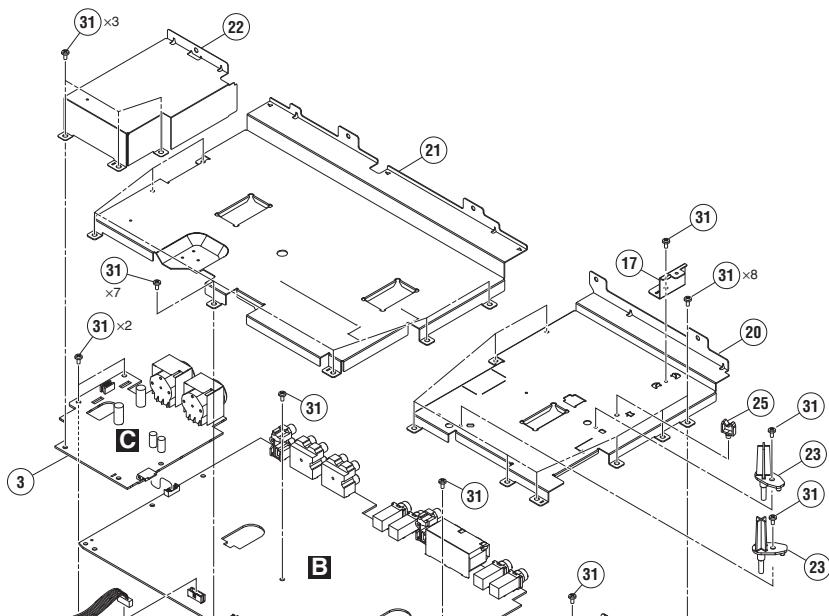
B
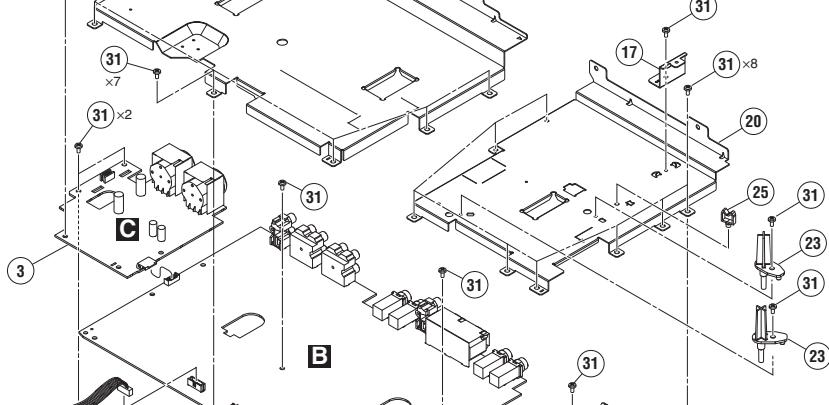
C
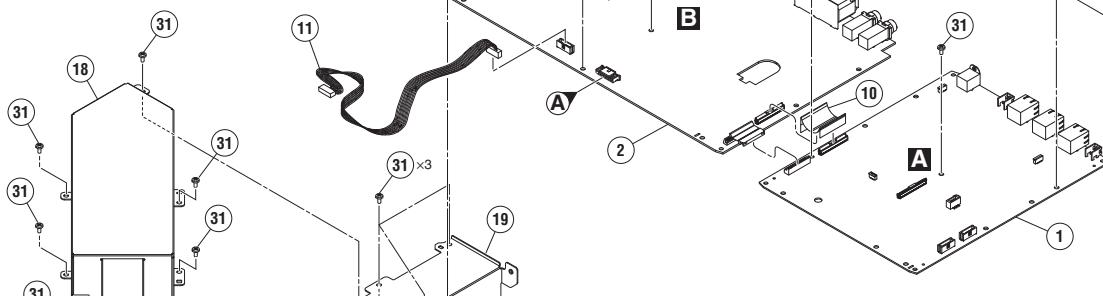
D
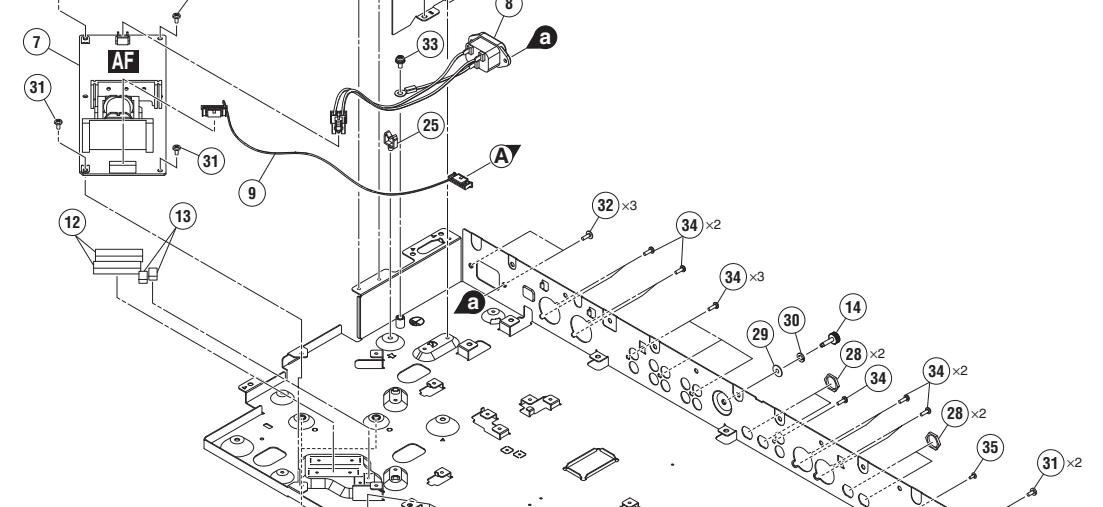
E
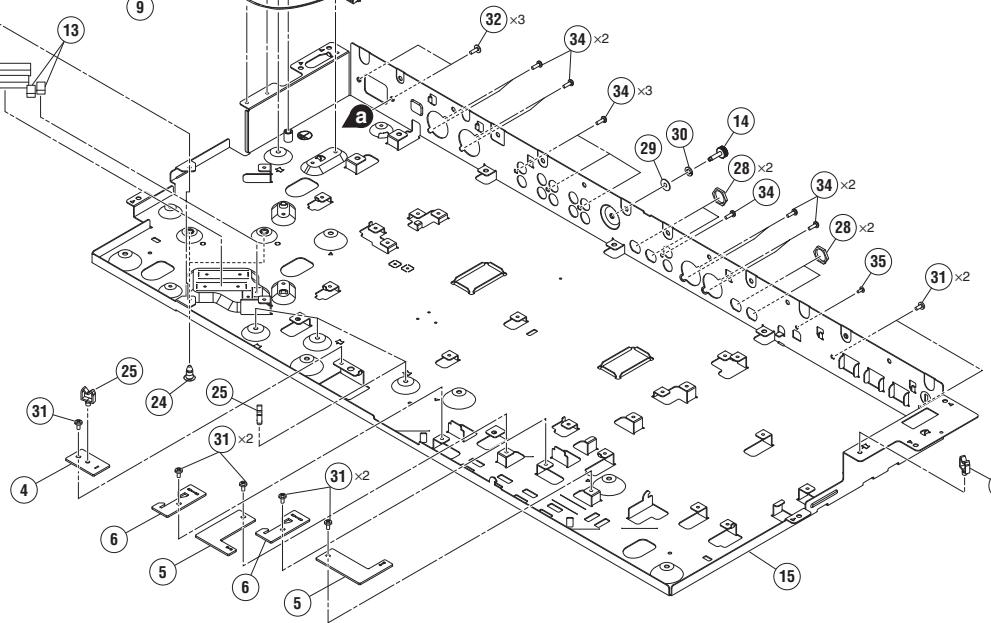
F
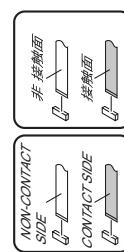
CHASSIS SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	MAIN Assy	DWX4287
	2	AUDIO Assy	DWX4298
	3	MCIN Assy	DWX4300
	4	STL1 Assy	DWX4319
	5	STL2 Assy	DWX4320
	6	STL3 Assy	DWX4321
⚠	7	SW POWER SUPPLY	DWR1548
⚠	8	AC Inlet	DKP3994
	9	Crimp Connector	DKP3993
	10	FFC	DDD1950
	11	Connector Assy	PF06PP-D37
	12	Heat Cond Sheet	DEB2020
	13	Heat Cond Sheet	DEB2073
	14	Earth Terminal	DKE1015
	15	Stay	DNH3430
	16	• • • • •	
	17	Bracket	DNH3431
	18	Shield Case	DNH3432
	19	Shield Case	DNH3433
	20	Shield Case	DNH3434
	21	Shield Case	DNH3435
	22	Shield Case	DNH3436
	23	Support	DNK6869
NSP	24	PCB Holder	PNW1706
	25	Holder	VEC1355
	26	• • • • •	
	27	• • • • •	
	28	Nut (M12)	NKX2FNI
	29	Washer	WA32F100Q050
	30	Spring Lock Washer	WS40FNI
	31	Screw	BBZ30P060FTC
	32	Screw	IBZ30P080FTB
	33	Screw	PMH40P080FTC
	34	Screw	PPZ30P080FTB
	35	Screw (M3 * 5)	DBA1340

XDJ-XZ

Refer to "7. DISASSEMBLY"

Lubricating oil (GYA1001)
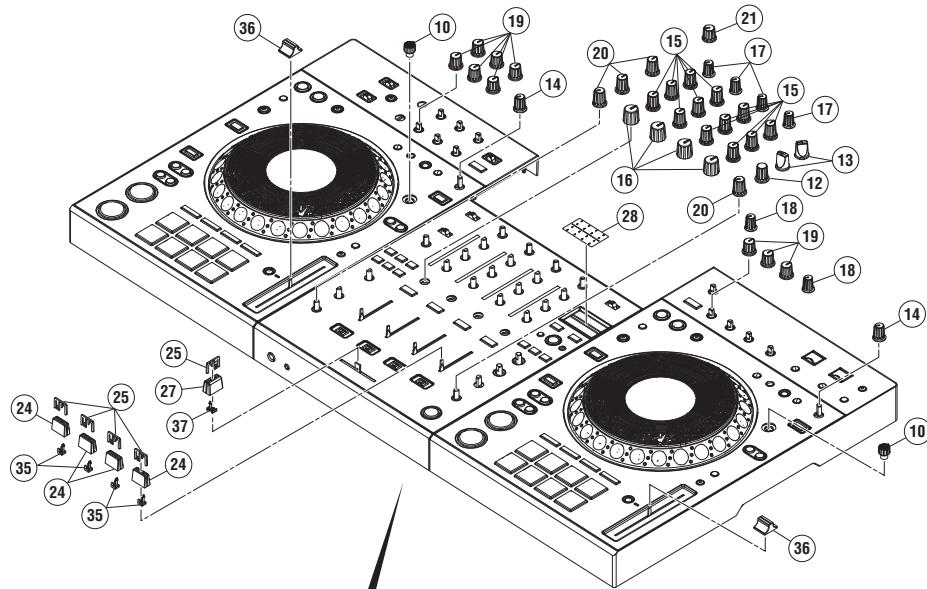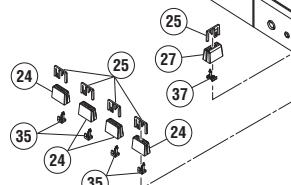
• Bottom view

• Top view

Accessories of VR ×24

Accessories of VR ×4

NON-CONTACT SIDE / CONTACT SIDE

非接触面 / 接触面
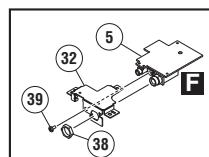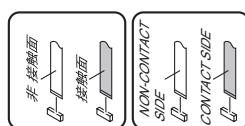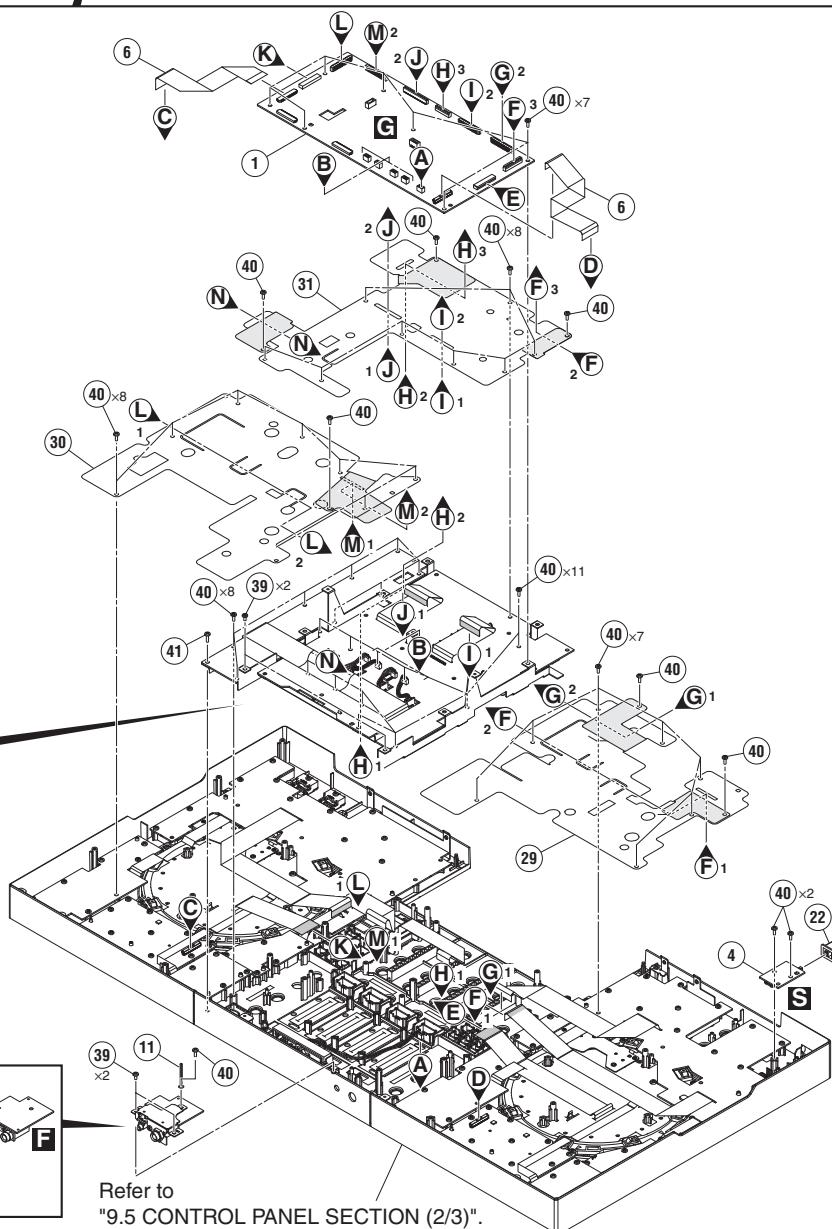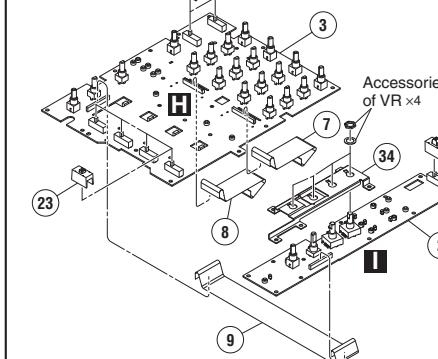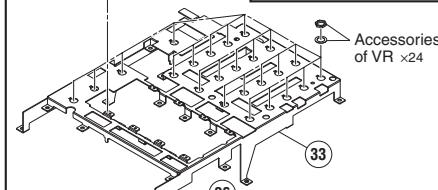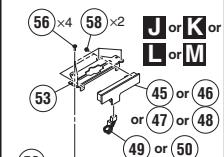
Refer to "9.5 CONTROL PANEL SECTION (2/3)".

CONTROL PANEL SECTION (1/3) PARTS LIST

Mark No.	Description	Part No.
1	UCOM Assy	DWX4296
2	EFSW Assy	DWX4297
3	MIXER Assy	DWX4299
4	PWSW Assy	DWX4312
5	HPJK Assy	DWX4301
6	FFC	DDD1935
7	FFC	DDD1943
8	FFC	DDD1944
9	FFC	DDD1946
10	Knob	DAA1406
11	Cord Clamper (Steel)	RNH-184
12	Rotary SW Knob (C)	DAA1180
13	Select Knob	DAA1205
14	Knob/LBK	DAA1284
15	Knob/RSW	DAA1305
16	Knob/FRE	DAA1309
17	Knob	DAA1408
18	Knob	DAA1409
19	Knob	DAA1432
20	Knob	DAA1434
21	Knob	DAA1435
22	Power Knob	DAC2306
23	Slide SW Cap (W)	DAC2401
24	Knob	DAC3539
25	Slider Knob 2	DAC2685
26	Cap	DAC3136
27	Knob	DAC3238
28	Sheet	DEC3843
29	Barrier	DEC3847
30	Barrier	DEC3848
31	Barrier	DEC3849
32	Stay/HP	DNH3182
33	Stay	DNH3426
34	Stay	DNH3427
35	Slider Knob Stopper	DNK5888
36	Knob/SLD	DNK5981
37	Stopper	DNK6440
38	Nut M12	DBN1018
39	Screw	BBZ30P060FTC
40	Screw	BPZ30P080FNI
41	Screw	BPZ30P100FTB
42	Screw	BSZ20P040FTB
43	•••••	
44	•••••	
45	CHF1 Assy	DWX4303

Mark No.	Description	Part No.
46	CHF2 Assy	DWX4304
47	CHF3 Assy	DWX4305
48	CHF4 Assy	DWX4306
49	Connector Assy (CH1 to CH3)	PF03PP-B05
50	Connector Assy (CH4)	PF03PP-B07
51	Guide Shaft VK1	DLA1978
52	Lever Plate	DNH2954
53	VR Stay	DNH2955
54	Slider Base	DNK5851
55	Shaft Holder	DNK5852
56	Screw	BPZ20P060FTC
57	Screw	CPZ26P080FTC
58	Screw	PMH20P040FTC

A

B

C

D

E

F

XDJ-XZ

A

• Bottom view

NON-CONTACT SIDE / CONTACT SIDE

非接触面 / 接触面

• Top view

Accessories of VR ×5

26

8

18

Accessories of VR

T

34

14

17

15

B

• Top view

22

20

Accessories of VR ×6

25

7

22

18

R

34

12

Accessories of VR

17

13

35 ×15

35 ×6

9 or 10

U or V

35 ×12

35 ×6   35 ×4

P

2

5 or 6

W or X

3 or 4

Y or Z

19

35 ×6

Refer to
"9.8 JOG DIAL SECTION".

C

35 ×16

35 ×6

9 or 10

U or V

35 ×12

35 ×6   35 ×4

1

O

5 or 6

W or X

3 or 4

Y or Z

21

19

16

Refer to
"9.8 JOG DIAL SECTION".

35 ×2

35 ×4   35 ×6

D

28

27

Q

11

23

30

35

24

E

33

32

31

• Top view

38

43   37   N

40   46 ×2

39   44   45 ×2

46 ×2   47 ×2

41

42

Refer to "7. DISASSEMBLY"

Lubricating oil
(GYA1001)

35 ×3

33

32

31

Refer to
"9.6 CONTROL PANEL SECTION (3/3)".

F

XDJ-XZ

## CONTROL PANEL SECTION (2/3) PARTS LIST

Mark	No.	Description	Part No.
	1	PAD1 Assy	DWX4292
	2	PAD2 Assy	DWX4293
	3	PLAY1 Assy	DWX4307
	4	PLAY2 Assy	DWX4308
	5	SER1 Assy	DWX4310
	6	SER2 Assy	DWX4314
	7	DCK1 Assy	DWX4309
	8	DCK2 Assy	DWX4313
	9	TMP1 Assy	DWX4311
	10	TMP2 Assy	DWX4315
	11	XPAD Assy	DWX4290
	12	FFC	DDD1939
	13	FFC	DDD1940
	14	FFC	DDD1941
	15	FFC	DDD1942
	16	FFC	DDD1945
	17	FFC	DDD1947
	18	FFC	DDD1948
	19	FFC	DDD1949
	20	Jumper Wire	D20PYY0405E
	21	Jumper Wire	D20PYY0410E
	22	SW Cap	DAC2753
	23	Tape	DEH1083
	24	Bracket	DNH3312
	25	Stay	DNH3424
	26	Stay	DNH3425
	27	Door	DNK6497
	28	Holder	DNK6710
	29	Holder	DNK6867
	30	Lens	DNK6868
	31	Button	DEB2075
	32	Sheet	DEC3739
	33	Spacer	DEC3740
	34	VR Stay S	DNH2964
	35	Screw	BPZ30P080FNI
	36	• • • • •	
	37	CRFD Assy	DWX4295
	38	Connector Assy	PF03PP-B15
NSP	39	Cushion	DEC3356
	40	Lever	DNH3211
	41	Stay	DNH3301
	42	Holder	DNK6425
	43	Slider	DNK6426
	44	Guide Bar	VLL1514
	45	Screw	BBZ30P060FTC
	46	Screw	BPZ20P050FTC
	47	Screw	CPZ26P080FTC

XDJ-XZ

A
B
C
D
E
F

A • Bottom view

B

• Top view

C

D

E

F

XDJ-XZ
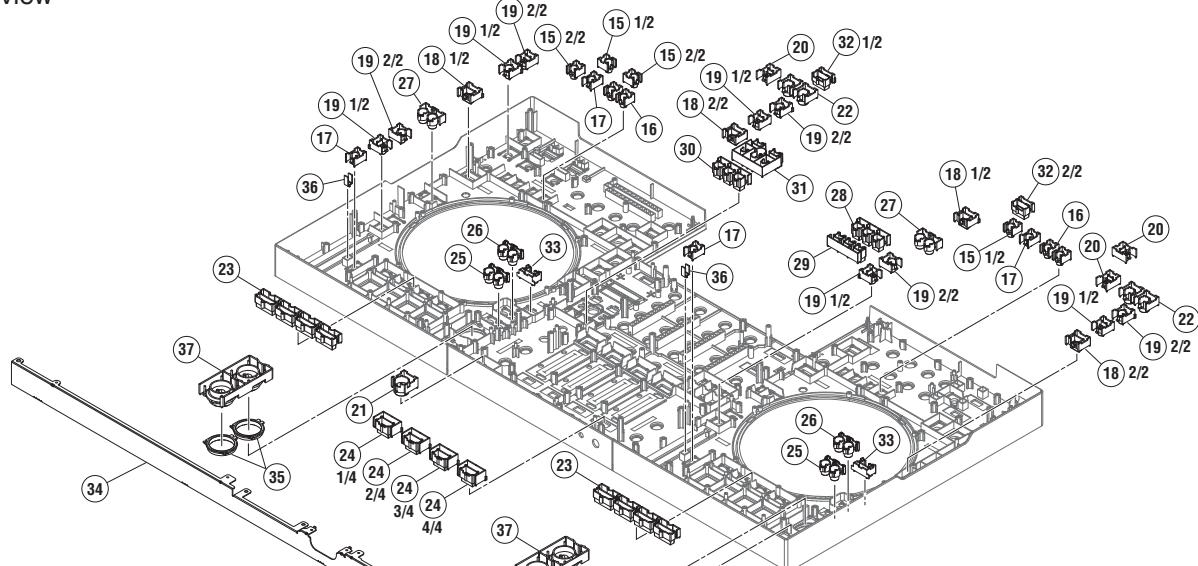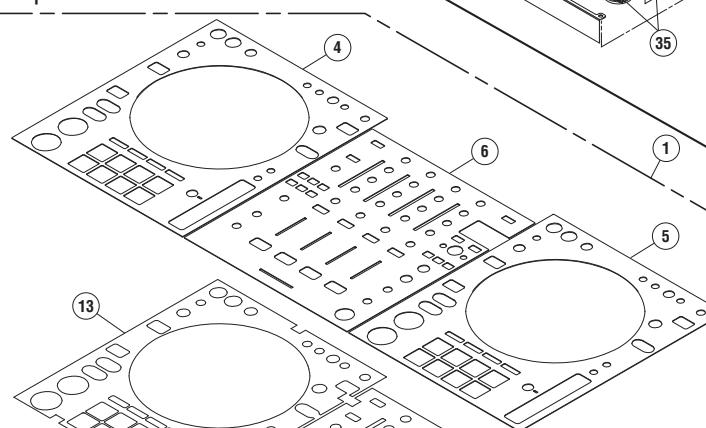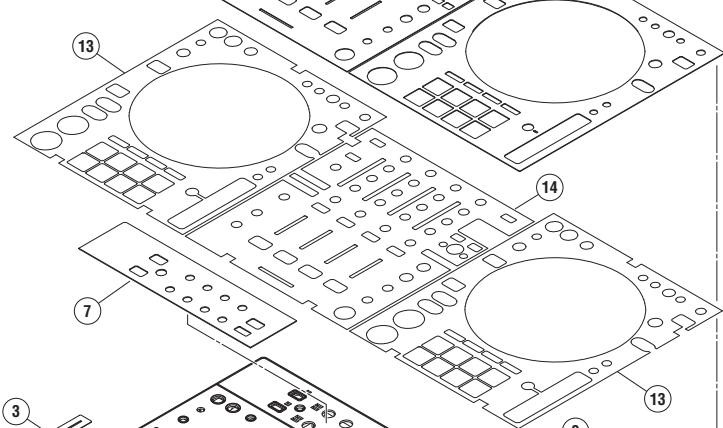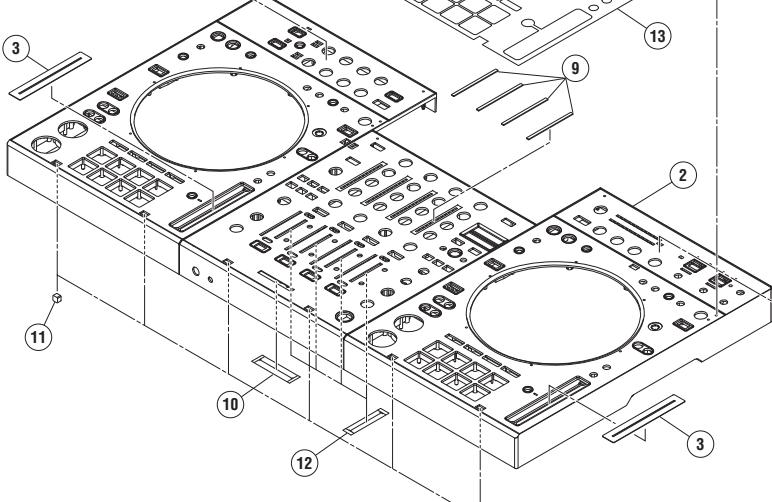
• The position of the divided parts / 分割部品の取り付け位置

∗: All the divided parts are the same.
You may use which.

∗: 部品は全て同じです。
どこに配置しても構いません。
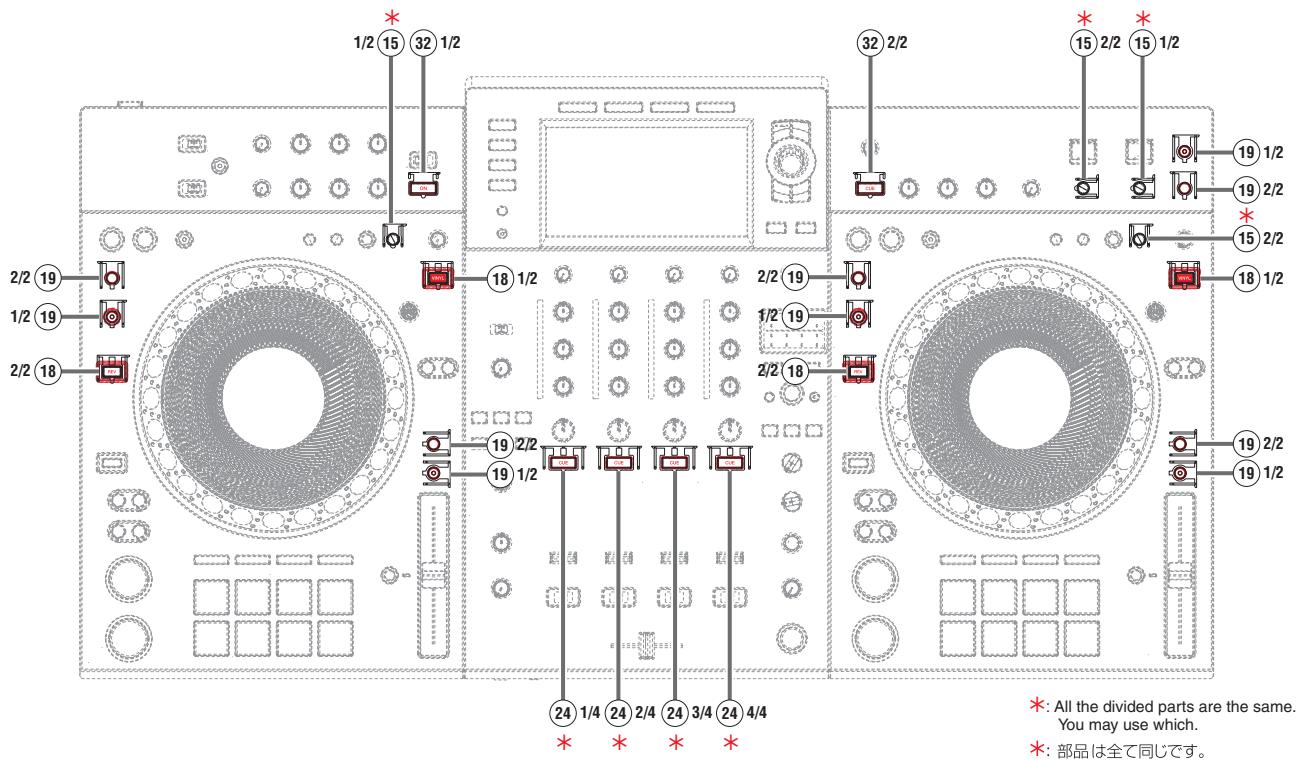
CONTROL PANEL SECTION (3/3) PARTS LIST

Mark	No.	Description	Part No.
	1	1..Control Panel Service Assy	DEA1094
⚠NSP	2	2..Control Panel	DNK6863
	3	2..Slide Sheet 1C	DAH2404
NSP	4	2..Plate	DAH3261
NSP	5	2..Plate	DAH3262
NSP	6	2..Plate	DAH3263
NSP	7	2..Plate	DAH3265
NSP	8	2..Plate	DAH3266
NSP	9	2..Plate	DAH3267
	10	2..Packing	DEC3642
	11	2..Gasket	DEC3719
	12	2..Sheet	DEC3795
NSP	13	2..DS Tape	DEH1108
NSP	14	2..DS Tape	DEH1109
	15	Button/TMP	DAC2845
	16	Button/CAL	DAC3020
	17	Button/DLT	DAC3021
	18	Button/RVL	DAC3023
	19	Button/MT	DAC3029
	20	Button/REL	DAC3030

Mark	No.	Description	Part No.
	21	Button/EF	DAC3040
	22	Button/LOP	DAC3074
	23	Button	DAC3285
	24	Button	DAC3287
	25	Button	DAC3363
	26	Button	DAC3413
	27	Button	DAC3478
	28	Button	DAC3479
	29	Button	DAC3480
	30	Button	DAC3481
	31	Button	DAC3482
	32	Button	DAC3483
	33	Button	DAC3502
	34	Frame	DNH3423
	35	Ring Rens (PLAY)	DNK5315
	36	Lens	DNK5862
	37	Button Unit	DXB2198

9.7 JOG DIAL SECTION

A • Bottom view

Refer to "7. DISASSEMBLY"

Lubricating oil

NON-CONTACT SIDE / CONTACT SIDE

• Top view

• Top view

DS tape ×2
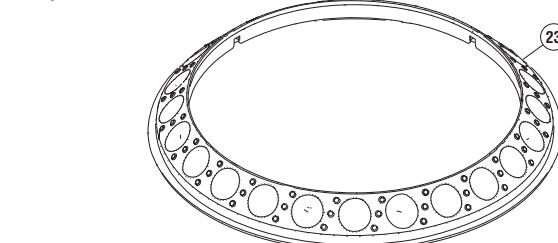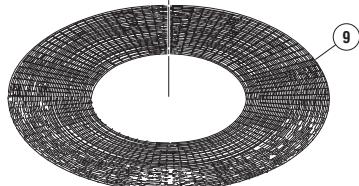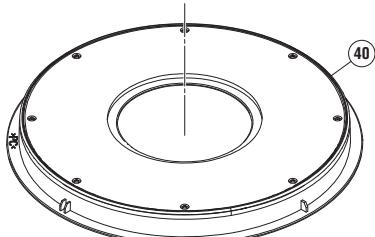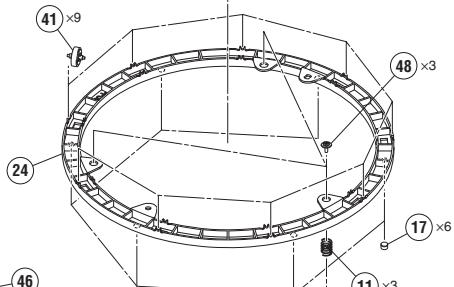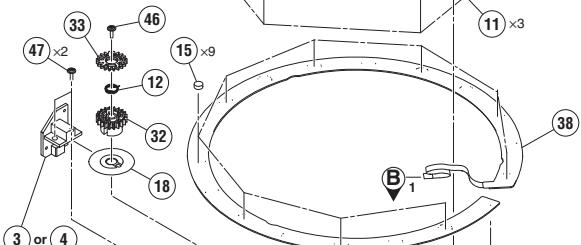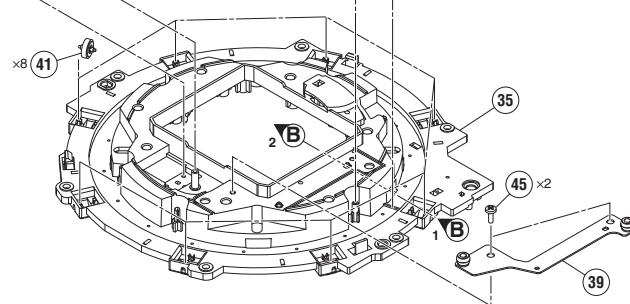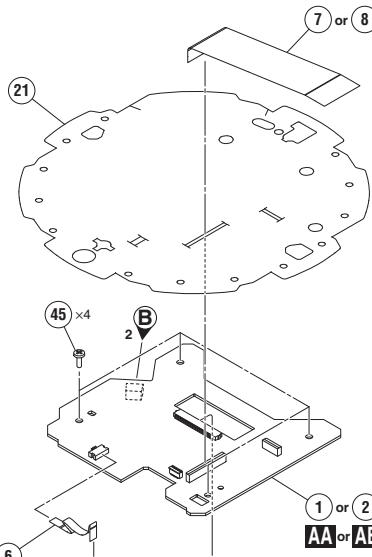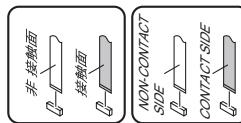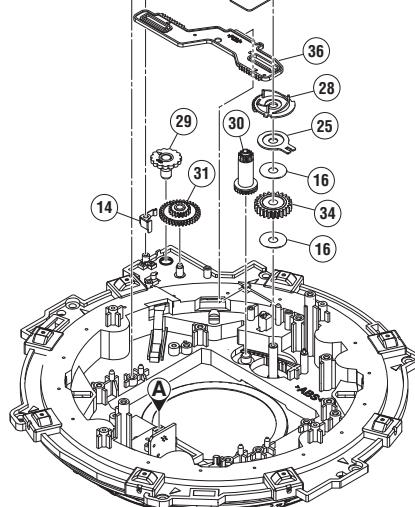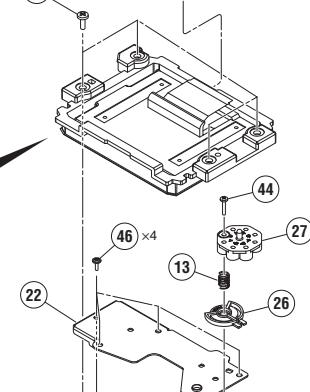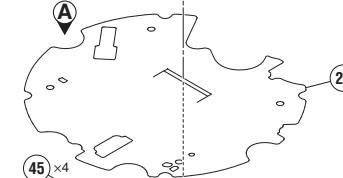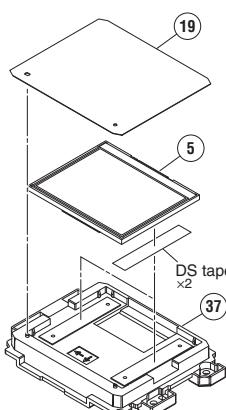
JOG DIAL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	JLCD1 Assy	DWX4288
	2	JLCD2 Assy	DWX4289
	3	JOG1 Assy	DWX4317
	4	JOG2 Assy	DWX4318
	5	TFT LCD	DWX4228
	6	FFC	DDD1843
	7	FFC (for Left Deck)	DDD1937
	8	FFC (for Right Deck)	DDD1938
	9	JOG Plate	DAH2679
	10	Window	DAH3189
	11	SW Spring	DBH1681
	12	Encoder Spring	DBH1710
	13	Coil Spring/LD	DBH1798
	14	Leaf Spring/ADJ	DBK1376
	15	SW Cushion HH48/2	DEC2538
	16	Washer	DEC3137
	17	Cushion/RNG	DEC3466
	18	Plate	DEC3700
	19	Sheet	DEC3844
	20	Barrier	DEC3845
	21	Barrier	DEC3846
	22	Plate	DNH3345
	23	JOG B	DNK4068
	24	SW Ring	DNK5233
	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	Gear/A	DNK6143
	33	Gear/B	DNK6144
	34	Gear/LD	DNK6145
	35	Holder	DNK6745
	36	Plate	DNK6748
	37	Holder	DNK6866
	38	Sheet SW	DSX1078
	39	Stay Assy/JOG	DXB2133
	40	JOG Dial A Assy	DXA2159
	41	Roller	DXB2178
	42	•••••	
	43	•••••	
	44	Screw	BPZ20P100FTC
	45	Screw	BPZ30P080FNI
	46	Screw	IPZ20P060FTC
	47	Screw	IPZ20P080FTC
	48	Screw (FE)	DBA1265

XDJ-XZ

9.8 LCD SECTION

• Bottom view
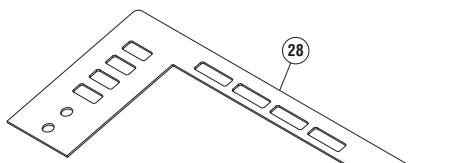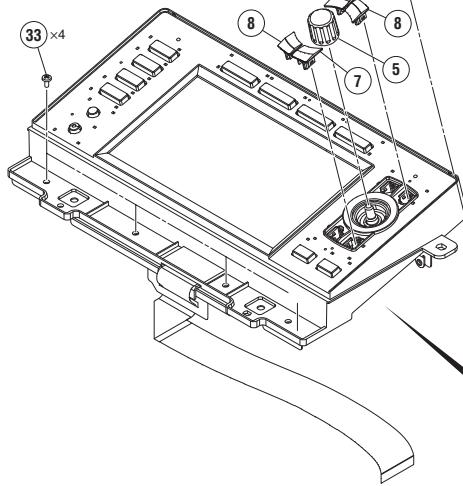
Note ※:
If it exchanges the Stay (⑲), be sure to use Acetate cloth tape.
If possible, reuse the original tape.
If cannot reuse, paste Acetate cloth tape of service parts as shown in the picture.
Incidentally, width of original tape is 10 mm, but width of service parts tape is 25 mm.

• **Acetate cloth tape for Service**

Width: 25 mm

Length: 10 mm

• **Pasting position**

Width: 25 mm

Reference position

Acetate cloth tape (Lenth: 10 mm)

Stay

Reference position

※
Acetate cloth tape
(10 mm × 20 mm)

XDJ-XZ
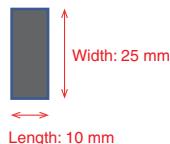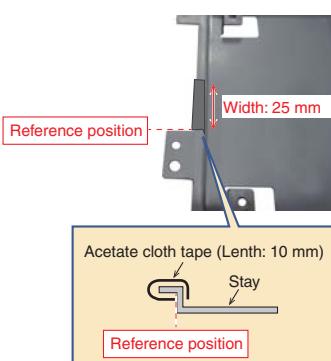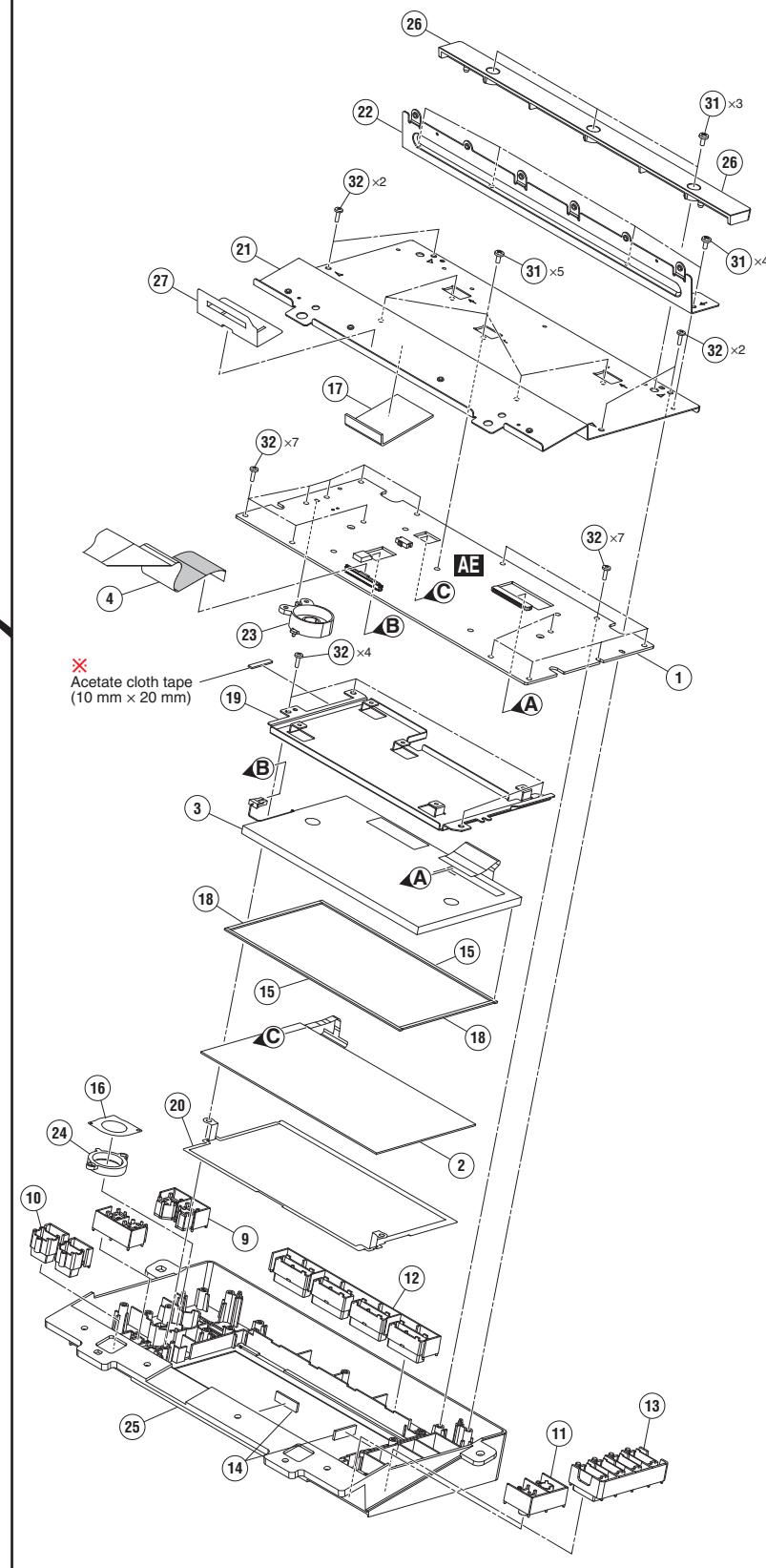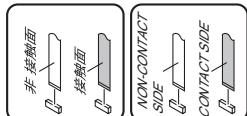
LCD SECTION PARTS LIST

Mark No.	Description	Part No.
1	LCDB Assy	DWX4291
2	Touch Panel	DSX1130
3	TFT LCD	DWX4375
4	FFC	DDD1951
5	Dial Knob	DAA1246
6	Button	DAC3113
7	Button	DAC3117
8	Button	DAC3118
9	Button	DAC3289
10	Button	DAC3290
11	Button	DAC3291
12	Button	DAC3292
13	Button	DAC3484
14	Packing/LCD	DEC3565
15	Packing/L	DEC3568
16	Light-D Sheet	DEC3613
17	Sheet	DEC3741
18	Packing	DEC3886
19	Stay	DNH3309
20	Plate	DNH3310
21	Shield Case	DNH3438
22	Angle	DNH3439
23	Holder	DNK6467
24	Lens	DNK6468
25	Panel	DNK6864
26	Cover	DNK6865
27	Barrier	DEC3888
28	Plate	DAH3264
29	• • • • •	
30	• • • • •	
31	Screw	BBZ30P060FTB
32	Screw	BPZ26P080FTC
33	Screw	BBZ30P060FTC

A

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B

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F

XDJ-XZ

97