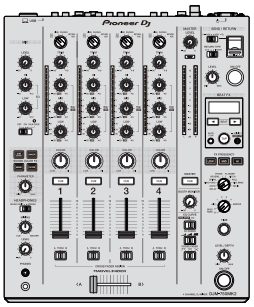
Pioneer DJ

Service Manual



DJM-750MK2

ORDER NO.
QRT1011

DJ MIXER

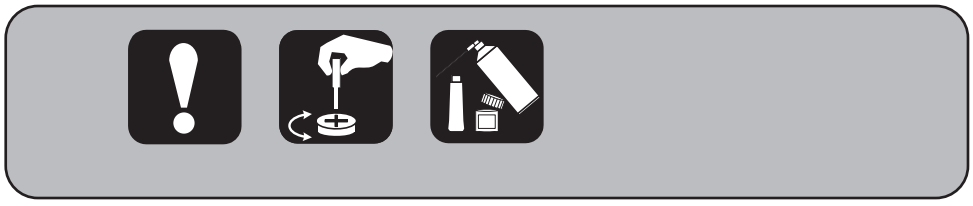
DJM-750MK2

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

Model	Type	Power Requirement	Remarks
DJM-750MK2	LSYXJ	AC 110 V to 240 V	
DJM-750MK2	UXJCB	AC 110 V to 240 V	
DJM-750MK2	XJCN	AC 220 V	

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

Model	Order No.	Remarks
DJM-750MK2	QRT1012	SCHEMATIC DIAGRAM, PCB CONNECTION DIAGRAM, PCB PARTS LIST



Pioneer DJ Corporation 6F, Yokohama i-Mark Place, 4-4-5 Minatomirai, Nishi-ku, Yokohama, Kanagawa 220-0012 Japan

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 in the 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.
It the failure of suspected that are listed in the table, replace whole ASSY.

ASSY Name	Parts that is Difficult to Replace			
	Ref. No	Parts No.	Function	Remarks
MAIN ASSY	IC1204	BD9328EFJ	12V =>1.25V DC/DC Converter	IC with heat-pad
	IC1205	TPS2557DRB	Current Limit IC	IC with heat-pad
	IC1208	NJM78M09DL1A	12V =>9V Regulator	IC with heat-pad
	IC1402	NJW4154GM1-A	12V =>-18V DC/DC Converter	IC with heat-pad
	IC1403	BD9851EFV	12V =>±7.5V DC/DC Converter	IC with heat-pad
	IC1404	NJM78M15DL1A	18V =>15V Regulator	IC with heat-pad
	IC1405	NJM79M15DL1A	-18V =>-15V Regulator	IC with heat-pad
	IC1406	NJM78M15DL1A	18V =>15V Regulator	IC with heat-pad
	IC1407	NJM79M15DL1A	-18V =>-15V Regulator	IC with heat-pad
	IC1408	NJM78M09DL1A	12V =>9V Regulator	IC with heat-pad
	IC1409	NJM78M15DL1A	18V =>15V Regulator	IC with heat-pad
	IC1410	UA78M05IKVURG3	9V =>5V Regulator	IC with heat-pad
	IC1411	UA78M33IKVUG3	9V =>3.3V Regulator	IC with heat-pad
	IC1412	UA78M05IKVURG3	9V =>5V Regulator	IC with heat-pad
	IC3001	D810K013DZKB400	DSP	BGA
	IC4001	AK4458VN	DAC	IC with heat-pad
	Q4613	2SCR573DG	Transistor	Transistor with heat-pad
	Q4614	2SAR573DG	Transistor	Transistor with heat-pad
	Q4615	2SCR573DG	Transistor	Transistor with heat-pad
	Q4616	2SAR573DG	Transistor	Transistor with heat-pad
AUDIO ASSY	IC6001	AK5558VN	ADC	IC with heat-pad

1.3 SERVICE NOTICE

About voltage monitoring

This product is continuously monitoring abnormal voltages.
If abnormality is detected, power supply is immediately turned OFF.
Power supply abnormality is indicated by blinking the UTILITY(WAKE UP) LED [cycle : 250 ms (lighting 125 ms/ light-off 125 ms)].
UTILITY(WAKE UP) LED display other than the LED is lighting-off all, it will all be SW and VR free reaction.
Repair according to the diagnosis method of “5.3 POWER SUPPLY DIAGNOSIS INFORMATION.”

Checking user setting contents

This product includes user setting items. Check the settings before repairing.
Use the check sheet prepared in item 8.5 to transcribe the settings.
Setting contents are stored in the Flash ROM (IC2003) in the MAIN ASSY.
For confirming or changing setting contents, refer to “Changing the settings” of the Operationg Instructions.

About the replacing CROSS FADER ASSY

The contactless fader is mounted in the cross fader part of this product.
This has several times of durability comparing with conventional types.
As assembly of the fader part is required high precision, service parts are provided only as an assembly (Part name is CROSS FADER ASSY (DXA2257)).
After replacing the part, make sure to acquire and save the maximum and minimum A/D values of [Cross fader setting mode (CFDR SET)] in the test mode.
If this calibration is not conducted, normal start is not possible.
If MAIN ASSY is replaced, make sure to acquire and save the maximum and minimum A/D values of [Cross fader setting mode (CFDR SET)] after the replacement.

About the replacing OLED ASSY

Display part of this product employs OLED. Exchange at the time of OLED failure, replace using OLED ASSY (DEA1065).
Matrix OEL is stick to Holder using double side tape. If trying to peel in the case of failing to paste, fault will be caused due to the stress.
Service part supplies as ASSY who stuck Matrix OEL and Holder.

About the replacing Capacitor (C4638, C4639)

C4638 and C4639 in the MAIN ASSY are locked with bond to prevent solder cracks caused by fall or vibration.
When any of them is replaced for repair, it must be locked with bond after the replacement.
Silicon Bond: GYA 1011

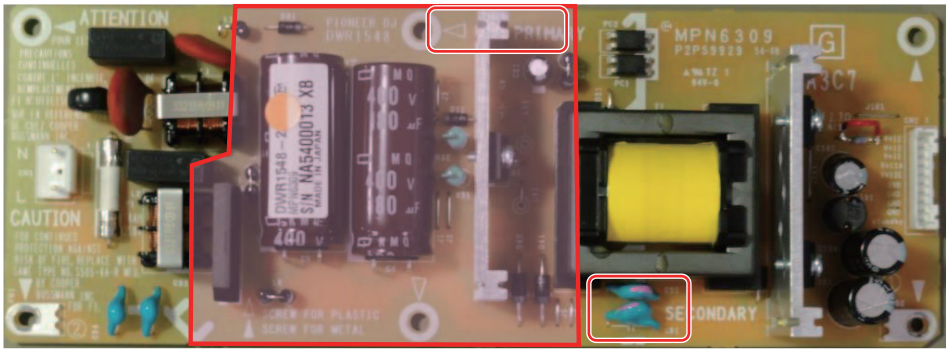
About the replacing Control Panel

When replacing the Control Panel, replace using Control Panel (Service ASSY) : DEA1077
Control Panel supplies as Service ASSY who stuck Packing and double side tape for Lens because precision is necessary of sticking of them.

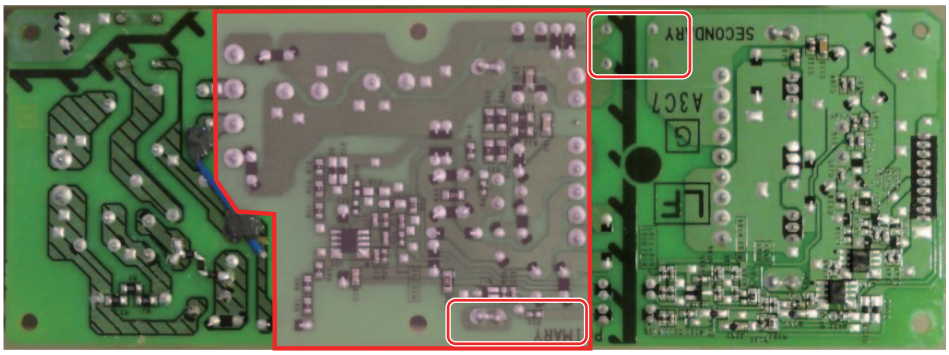
DWR1548 (SW POWER SUPPLY) Primary side electrical shock

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 you tend to receive an electrical shock.
Be sure to discharge the voltage of primary side to avoid receiving the electrical shock.

Electrical shock area of A-side.

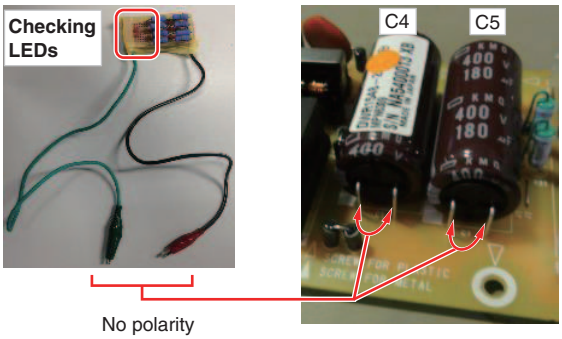


Electrical shock area of B-side.



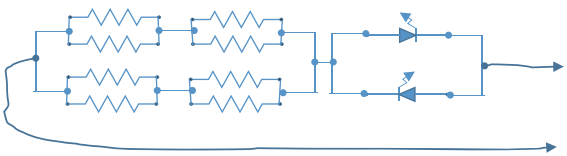
When discharging the above point, use the following discarge jig as needed.

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



Circuit of "discharge JIG" is shown below.

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



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

- Step1: After the power is turned off,wait 2 minutes.
- Step2: Connect the Register Jig and leave the unit as it is, for 10 seconds.

2. SPECIFICATIONS

2.1 ACCESORIES

- Power cord (LSYXJ : ADG1244) (UXJCB : DDG1108) (XJCN : DDG1114)
- USB cable (DDE1128)
- Operating instructions (Quick start guide) (LSYXJ : DRH1433) (UXJCB : DRH1434) (XJCN : DRH1436)
- License key card (rekordbox dj, recordbox dvs)
- Warranty card* (LSYXJ : DRY1270)

* The corresponding information is provided on the last page (UXJCB model).

Cautions

The license key cannot be reissured. Be careful not to losted it.

2.2 SPECIFICATIONS

General – Main Unit

Power requirements ..... AC 110 V to 240 V, 50 Hz/60 Hz
Power consumption ..... 40 W
Power consumption (standby) ..... 0.3 W
Main unit weight ..... 6.6 kg (14.6 lb)
Max. dimensions ..... 320 mm (W) × 107.9 mm (H) × 387.9 mm (D)
(12.6 in. (W) × 4.2 in. (H) × 15.3 in. (D))
Tolerable operating temperature ..... +5 °C to +35 °C (+41 °F to +95 °F)
Tolerable operating humidity ..... 5 % to 85% (no condensation)

Audio Section

Sampling rate ..... 48 kHz
D/A converter 32-bit
Channel input A/D converter 32-bit
Other A/D converter 24-bit
Frequency characteristic
LINE ..... 20 Hz to 20 kHz
S/N ratio (rated output)
PHONO ..... 87 dB
LINE ..... 105 dB
MIC ..... 79 dB
Total harmonic distortion (**LINE**— **MASTER1**) ..... 0.005 %
Standard input level / Input impedance
PHONO ..... –52 dBu/47 kΩ
LINE ..... –12 dBu/47 kΩ
MIC ..... –57 dBu/3 kΩ
RETURN ..... –12 dBu/47 kΩ
Standard output level / Load impedance / Output impedance
MASTER1 ..... + 6 dBu/10 kΩ/300 Ω
MASTER2 ..... + 2 dBu/10 kΩ/680 Ω
BOOTH ..... + 6 dBu/10 kΩ/300 Ω
SEND (when **RETURN TYPE** is "**AUX**") ..... –6 dBu/10 kΩ/680 Ω
SEND (when **RETURN TYPE** is "**INSERT**") ..... –12 dBu/10 kΩ/680 Ω
PHONES ..... + 8 dBu/32 Ω/10 Ω or less
Rated output level / Load impedance
MASTER1 ..... +25 dBu/10 kΩ
MASTER2 ..... +21 dBu/10 kΩ
Crosstalk (**LINE**) ..... 82 dB
Channel equalizer characteristic
HI ..... –26 dB to +6 dB (20 kHz)
MID ..... –26 dB to +6 dB (1 kHz)
LOW ..... –26 dB to +6 dB (20 Hz)
Microphone equalizer characteristic
HI ..... –12 dB to +12 dB (10 kHz)
LOW ..... –12 dB to +12 dB (100 Hz)

Input / Output terminals

PHONO input terminal
RCA pin jacks ..... 4 sets
LINE input terminal
RCA pin jacks ..... 4 sets
MIC input terminal (XLR/TRS)
XLR connector & 1/4" TRS jack ..... 1 set
RETURN Input terminals (TS)
1/4" TS jack ..... 1 set
MASTER output terminal
XLR connector ..... 1 set
RCA pin jacks ..... 1 set
BOOTH output terminal
1/4" TRS jack ..... 1 set
SEND output terminal (TS)
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 terminal
Type A ..... 1 set
Power supply...5 V/2.1 A or less
B type ..... 1 set

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

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

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

No.	Procedure	Check points
1	Check 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 complain has been solved. If the problem pointed out by the customer occurs with a specific source or operation, input that specific source then perform that specific operation for checking.	The customer complain must not be reappeared. Audio and operations must be normal.
3	Check the analog audio input (each channel, MIC, RETURN). (CDJ player, analog player and MIC to analog connection)	Audio and operations must be normal.
4	Check the analog audio output (MASTER 1/2, BOOTH, SEND)(CDJ player to analog connection)	Audio and operations must be normal.
5	Check the headphone output (1/4" jack, mini jack).	Noise and audio must be normal.
6	Check the each operation (KEY, SW, VR, fader, etc.) and indicator.	That it works properly in Test mode check.
7	Check the connection of each interface USB A terminal USB B terminal	Check the lighting of USB connection indicator by inserting a USB memory. It is properly recognized in PC.
8	Check the DVS.	PC application is operating normally, audio and operations must be normal of each channel.
9	Check the user settings.	It is in the contents before repairs.
10	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

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

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

3.2 JIGS LIST

■ Jigs List

Jig Name	Part No.	Purpose of use / Remarks
USB cable	GGP1193	For PC connection, Accessories
Serial number writing software	GGS1198	Used in the writing of serial number to be performed after the MAIN ASSY replacement. Refer to " 8.3 METHOD OF WRITING SERIAL NUMBER ".
License-key card for Service	GGP1522 GGP1523	For activation of rekordbox dj For activation of rekordbox DVS

■ Lubricants List

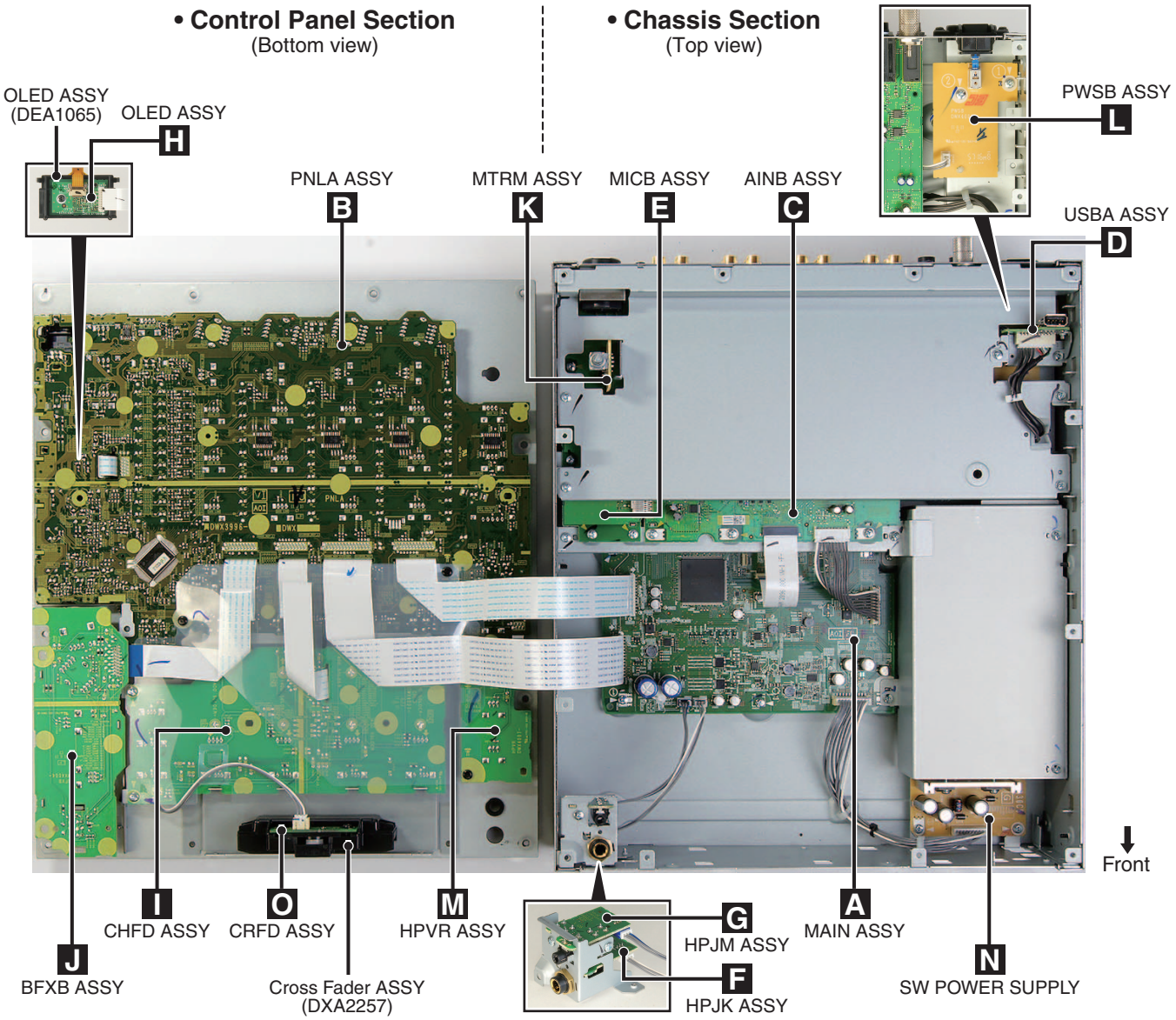
Name	Lubricants No.	Remarks
Sillcon Bond	GYA1011	Used to do bond locking of C4638 and C4639 in the MAIN ASSY.

SEVICE CHECK SHEET

MODE	CHECK CONTENTS	OPERATIION POINT	MODDE TITLE	INDICATION POINT	STATE	CHECK
TEST MODE	Version		Version	OLED	SYSTEM	❑Ver.___
					SH-B	❑Ver.___
					SH-A	❑Ver.___
					BOOT	❑Ver.___
					PANEL	❑Ver.___
					PANEL-B	❑Ver.___
					DSP P	❑Ver.___
					DSP D	❑Ver.___
	LED all light-OFF		ALL CLEAR	OLED	About 1 second indication (at the start of mode)	❑
	LED all light-ON		ALL SET	All LED, OLED	"ALL SET" indication for about 1 second (all LEDs light-ON, OLED mode is started)	❑
	KEY operation		KEY TEST	OLED		
		DUB ECHO		LED / OLED	Light-ON when KEY is pressed / "CFX 1" indication	❑
		SWEEP		LED / OLED	Light-ON when KEY is pressed / "CFX 2" indication	❑
		NOISE		LED / OLED	Light-ON when KEY is pressed / "CFX 3" indication	❑
		FILTER		LED / OLED	Light-ON when KEY is pressed / "CFX 4" indication	❑
		CUE CH1		LED / OLED	Light-ON when KEY is pressed / "CUE 1" indication	❑
		CUE CH2		LED / OLED	Light-ON when KEY is pressed / "CUE 2" indication	❑
		CUE CH3		LED / OLED	Light-ON when KEY is pressed / "CUE 3" indication	❑
		CUE CH4		LED / OLED	Light-ON when KEY is pressed / "CUE 4" indication	❑
		CUE MASTER		LED / OLED	Light-ON when KEY is pressed / "CUE MST" indication	❑
		SEND/RETURN ON/OFF		LED / OLED	Light-ON when KEY is pressed / "S/R ON" indication	❑
		BEAT DOWN (◀)		No LED / OLED	— / "BEAT <" indication	❑
		BEAT UP (▶)		No LED / OLED	— / "BEAT >" indication	❑
		TAP		No LED / No OLED	Because it is used for mode transition	❑
		AUTO/TAP		No LED / OLED	— / "AUTO" indication	❑
		UTILITY		LED / OLED	Light-ON when KEY is pressed / "UTILITY" indication	❑
		FX FREQUENCY LOW		LED / OLED	Light-ON when KEY is pressed / "FREQ L" indication	❑
		FX FREQUENCY MID		LED / OLED	Light-ON when KEY is pressed / "FREQ M" indication	❑
		FX FREQUENCY HI		LED / OLED	Light-ON when KEY is pressed / "FREQ H" indication	❑
		EFFECT ON/OFF		LED / OLED	Light-ON when KEY is pressed / "EFX ON" indication	❑
	SW operation		SW TEST	OLED		
		INPUT SELECT CH1	USB	CH1 Level Meter LED	[12dB] light-ON	❑
			LINE		[9dB] light-ON	❑
			PHONO		[6dB] light-ON	❑
			RETURN AUX		[3dB] light-ON	❑
		INPUT SELECT CH2	USB	CH2 Level Meter LED	[12dB] light-ON	❑
			LINE		[9dB] light-ON	❑
			PHONO		[6dB] light-ON	❑
			RETURN AUX		[3dB] light-ON	❑
		INPUT SELECT CH3	USB	CH3 Level Meter LED	[12dB] light-ON	❑
			LINE		[9dB] light-ON	❑
			PHONO		[6dB] light-ON	❑
			RETURN AUX		[3dB] light-ON	❑
		INPUT SELECT CH4	USB	CH4 Level Meter LED	[12dB] light-ON	❑
			LINE		[9dB] light-ON	❑
			PHONO		[6dB] light-ON	❑
			RETURN AUX		[3dB] light-ON	❑
		CH FADER Assign CH1	Assign A	CH1 Level Meter LED	[–24dB] light-ON	❑
			THRU		[–18dB] light-ON	❑
			Assign B		[–12dB] light-ON	❑
		CH FADER Assign CH2	Assign A	CH2 Level Meter LED	[–24dB] light-ON	❑
			THRU		[–18dB] light-ON	❑
			Assign B		[–12dB] light-ON	❑
		CH FADER Assign CH3	Assign A	CH3 Level Meter LED	[–24dB] light-ON	❑
			THRU		[–18dB] light-ON	❑
			Assign B		[–12dB] light-ON	❑
		CH FADER Assign CH4	Assign A	CH4 Level Meter LED	[–24dB] light-ON	❑
			THRU		[–18dB] light-ON	❑
			Assign B		[–12dB] light-ON	❑
		MIC	OFF	CH1 Level Meter LED	[0dB] light-ON	❑
			ON		[–3dB] light-ON	❑
			TALK OVER		[–6dB] light-ON	❑
		HEAD PHONES	MONO SPLIT	CH2 Level Meter LED	[–6dB] light-ON	❑
			STEREO		[–9dB] light-ON	❑
		SND/RTN RETURN IN	1/4"TS JACK	Master Level Meter Lch LED	[15dB] light-ON	❑
			USB	Master Level Meter	[CLIP] light-ON	❑
		SND/RTN TYPE	AUX	Master Level Meter Lch LED	[12dB] light-ON	❑
			INSERT		[9dB] light-ON	❑
		EQ CURVE	ISOLATOR	CH2 Level Meter LED	[0dB] light-ON	❑
			EQ		[–3dB] light-ON	❑
		CH FADER CURVE	Left	CH3 Level Meter LED	[0dB] light-ON	❑
			MID		[–3dB] light-ON	❑
			Right		[–6dB] light-ON	❑
		CROSS FADER CURVE	Left	CH4 Level Meter LED	[0dB] light-ON	❑
			MID		[–3dB] light-ON	❑
			Right		[–6dB] light-ON	❑
		Channel Select SW	CF.B	Master Level Meter Lch LED	[–24dB] light-ON	❑
			CF.A		[–15dB] light-ON	❑
			MIC		[–9dB] light-ON	❑
			1		[–6dB] light-ON	❑
			2		[–3dB] light-ON	❑
			3		[0dB] light-ON	❑
			4		[3dB] light-ON	❑
			MASTER		[6dB] light-ON	❑
		Effect Select SW	DELAY	Master Level Meter Lch LED	[–24dB] light-ON	❑
			ECHO		[–15dB] light-ON	❑
			PING PONG		[–9dB] light-ON	❑
			SPIRAL		[–6dB] light-ON	❑
			REVERB		[–3dB] light-ON	❑
			TRANS		[0dB] light-ON	❑
			FLANGER		[3dB] light-ON	❑
			PITCH		[6dB] light-ON	❑
			ROLL		[9dB] light-ON	❑
			VINYL BRAKE		[12dB] light-ON	❑
			HELIX		[15dB] light-ON	❑

MODE	CHECK CONTENTS	OPERATIION POINT	MODDE TITLE	INDICATION POINT	STATE	CHECK
TEST MODE	Volume operation		VOL TEST	OLED		
		Group 1				
		CH1 TRIM		CH1 Level Meter LED	"– ∞ " : Lights OFF — "+9" : Full Illuminate	❑
		CH2 TRIM		CH2 Level Meter LED	"– ∞ " : Lights OFF — "+9" : Full Illuminate	❑
		CH3 TRIM		CH3 Level Meter LED	"– ∞ " : Lights OFF — "+9" : Full Illuminate	❑
		CH4 TRIM		CH4 Level Meter LED	"– ∞ " : Lights OFF — "+9" : Full Illuminate	❑
		MIC HI		Master Level Meter Lch LED	"–12 " : Lights OFF — "+12" : Full Illuminate	❑
		MIC LOW		Master Level Meter Rch LED	"–12 " : Lights OFF — "+12" : Full Illuminate	❑
		Group 2				
		CH1 HI		CH1 Level Meter LED	"–26/– ∞ " : Lights OFF — "+6" : Full Illuminate	❑
		CH2 HI		CH2 Level Meter LED	"–26/– ∞ " : Lights OFF — "+6" : Full Illuminate	❑
		CH3 HI		CH3 Level Meter LED	"–26/– ∞ " : Lights OFF — "+6" : Full Illuminate	❑
		CH4 HI		CH4 Level Meter LED	"–26/– ∞ " : Lights OFF — "+6" : Full Illuminate	❑
		CFX PARAMETER		Master Level Meter Lch LED	"MIN" : Lights OFF — "MAX" : Full Illuminate	❑
		HEAD PHONES MIXING		Master Level Meter Rch LED	"CUE" : Lights OFF — "MASTER" : Full Illuminate	❑
		Group 3				
		CH1 MID		CH1 Level Meter LED	"–26/– ∞ " : Lights OFF — "+6" : Full Illuminate	❑
		CH2 MID		CH2 Level Meter LED	"–26/– ∞ " : Lights OFF — "+6" : Full Illuminate	❑
		CH3 MID		CH3 Level Meter LED	"–26/– ∞ " : Lights OFF — "+6" : Full Illuminate	❑
		CH4 MID		CH4 Level Meter LED	"–26/– ∞ " : Lights OFF — "+6" : Full Illuminate	❑
		HEAD PHONES LEVEL		Master Level Meter Lch LED	"– ∞ " : Lights OFF — "0" : Full Illuminate	❑
		EFFECT LEVEL/DEPTH		Master Level Meter Rch LED	"MIN" : Lights OFF — "MAX" : Full Illuminate	❑
		Group 4				
		CH1 LOW		CH1 Level Meter LED	"–26/– ∞ " : Lights OFF — "+6" : Full Illuminate	❑
		CH2 LOW		CH2 Level Meter LED	"–26/– ∞ " : Lights OFF — "+6" : Full Illuminate	❑
		CH3 LOW		CH3 Level Meter LED	"–26/– ∞ " : Lights OFF — "+6" : Full Illuminate	❑
		CH4 LOW		CH4 Level Meter LED	"–26/– ∞ " : Lights OFF — "+6" : Full Illuminate	❑
		MASTER LEVEL		Master Level Meter Lch LED	"– ∞ " : Lights OFF — "0" : Full Illuminate	❑
		BOOTH MONITOR		Master Level Meter Rch LED	"– ∞ " : Lights OFF — "0" : Full Illuminate	❑
		Group 5				
		CH1 COLOR		CH1 Level Meter LED	"LOW" : Lights OFF — "HI" : Full Illuminate	❑
		CH2 COLOR		CH2 Level Meter LED	"LOW" : Lights OFF — "HI" : Full Illuminate	❑
		CH3 COLOR		CH3 Level Meter LED	"LOW" : Lights OFF — "HI" : Full Illuminate	❑
		CH4 COLOR		CH4 Level Meter LED	"LOW" : Lights OFF — "HI" : Full Illuminate	❑
		SND/RTN LEVEL		Master Level Meter Lch LED	"MIN" : Lights OFF — "MAX" : Full Illuminate	❑
	Fader operation		FDR TEST	OLED		
		CH1 FADER		CH1 Level Meter LED	"0" : Lights OFF — "10" : Full Illuminate	❑
		CH2 FADER		CH2 Level Meter LED	"0" : Lights OFF — "10" : Full Illuminate	❑
		CH3 FADER		CH3 Level Meter LED	"0" : Lights OFF — "10" : Full Illuminate	❑
		CH4 FADER		CH4 Level Meter LED	"0" : Lights OFF — "10" : Full Illuminate	❑
		CROSS FADER		Master Level Meter Lch LED	"A" : Lights OFF — "B" : Full Illuminate	❑
	Level Meter indication		LED TEST	OLED		
		CH1 CUE		CH1 Level Meter	Press CUE light-ON one by one from the bottom (pressed 11 times)	❑
		CH2 CUE		CH2 Level Meter	Press CUE light-ON one by one from the bottom (pressed 11 times)	❑
		CH3 CUE		CH3 Level Meter	Press CUE light-ON one by one from the bottom (pressed 11 times)	❑
		CH4 CUE		CH4 Level Meter	Press CUE light-ON one by one from the bottom (pressed 11 times)	❑
		MASTER CUE		Master Level Meter Lch LED	Press CUE light-ON one by one from the bottom (pressed 11 times)	❑
		FREQUENCY LOW		Master Level Meter Rch LED + CLIP LED	Press CUE light-ON one by one from the bottom (pressed 12 times)	❑
	Device check		DEVICE	OLED		
		DSP SDRAM	SDRAM	OLED	CHK	❑
					OK	❑
					NG	❑
		UPDATE PORT	UPDPORT	OLED	CHK	❑
					OK	❑
					NG	❑
		UPDATE PORT NG		CH1 Level Meter	PNL_MODE : [–24dB] light-ON	❑
					A-PNL_MOSI : [–18dB] light-ON	❑
					A-PNL_MISO : [–12dB] light-ON	❑
					A-PNL_CLK : [–9dB] light-ON	❑
					A-PNL_CTRL : [–6dB] light-ON	❑
					A-PNL_INT : [–3dB] light-ON	❑

3.3 PCB LOCATIONS

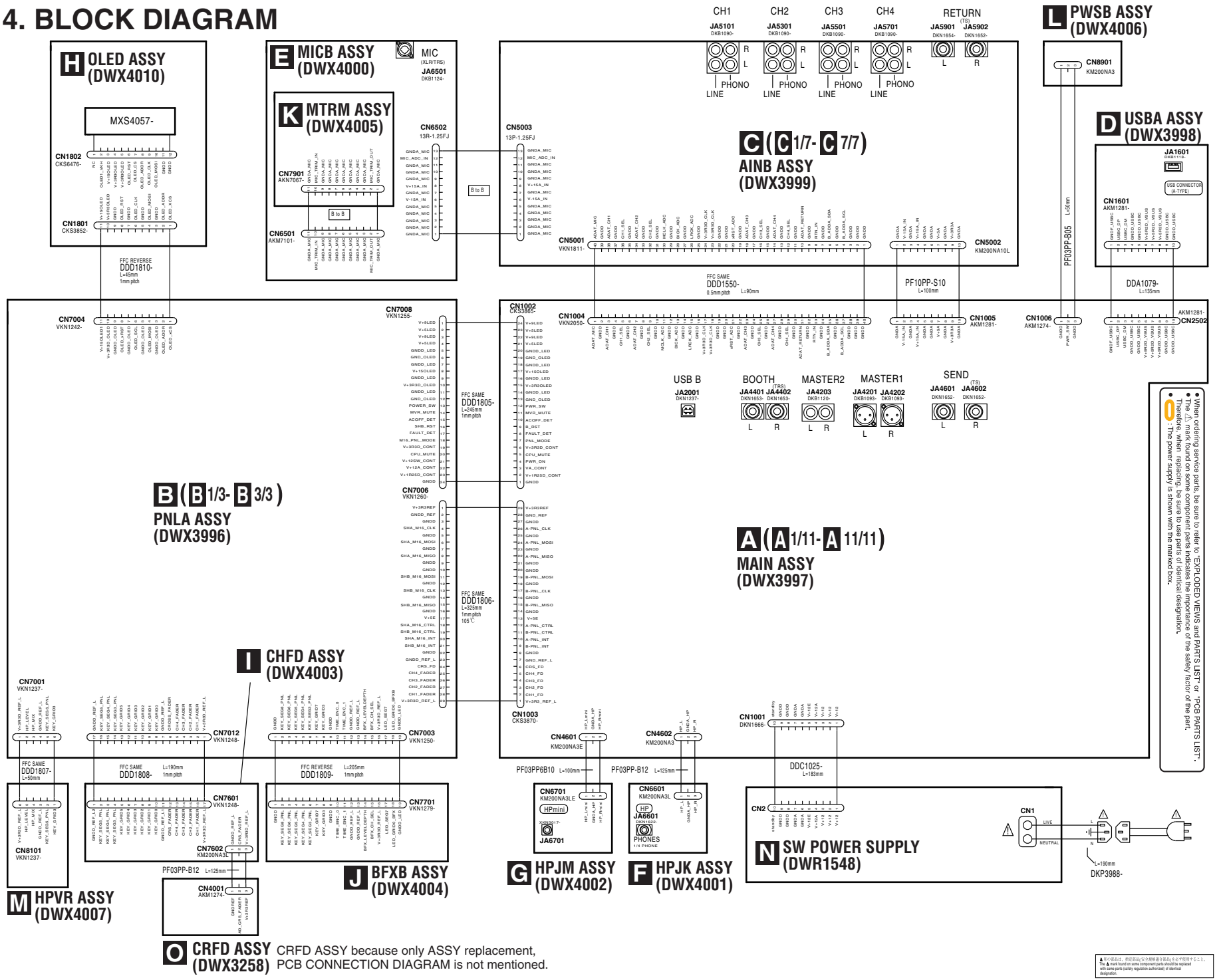


NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

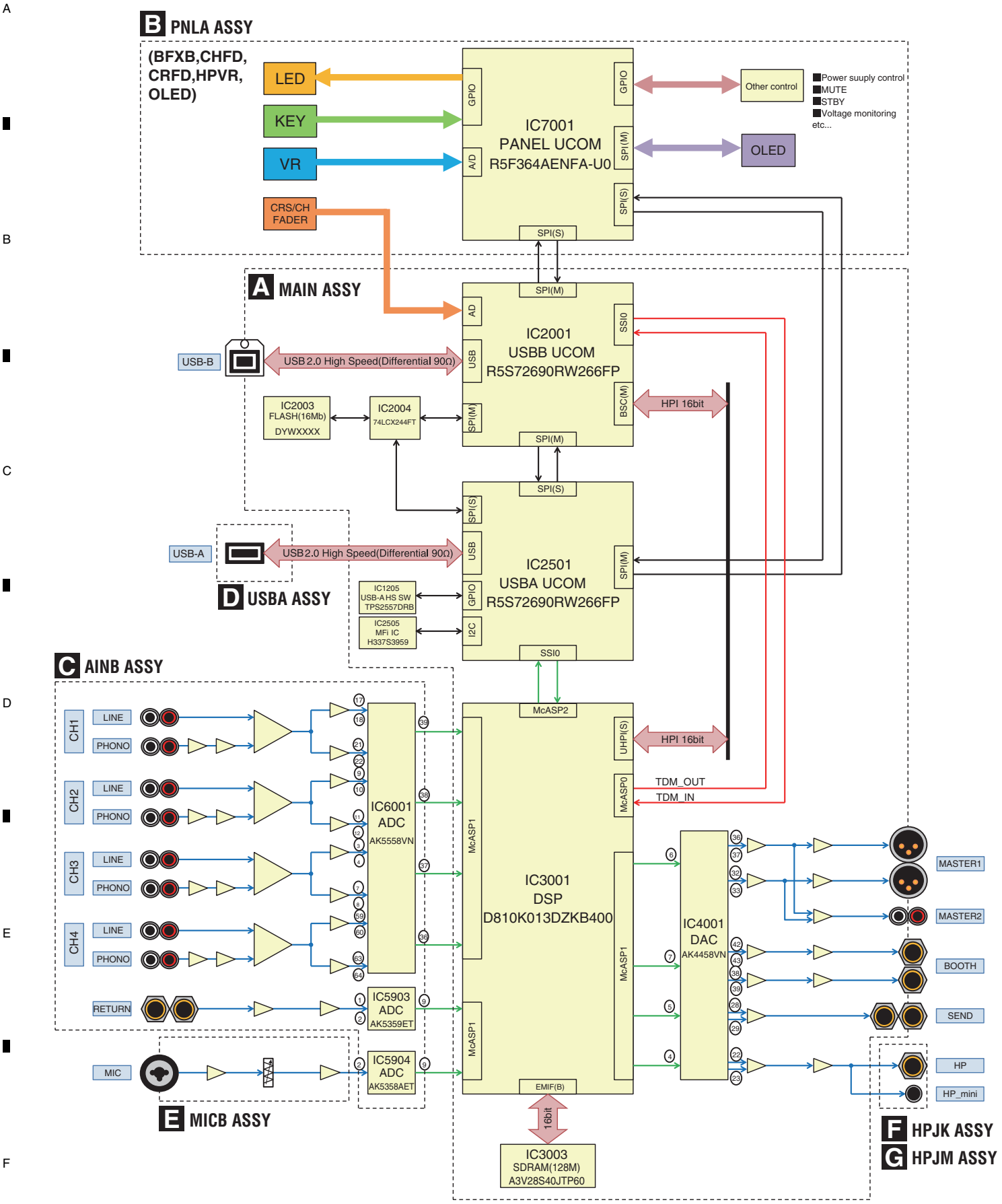
LIST OF ASSEMBLIES

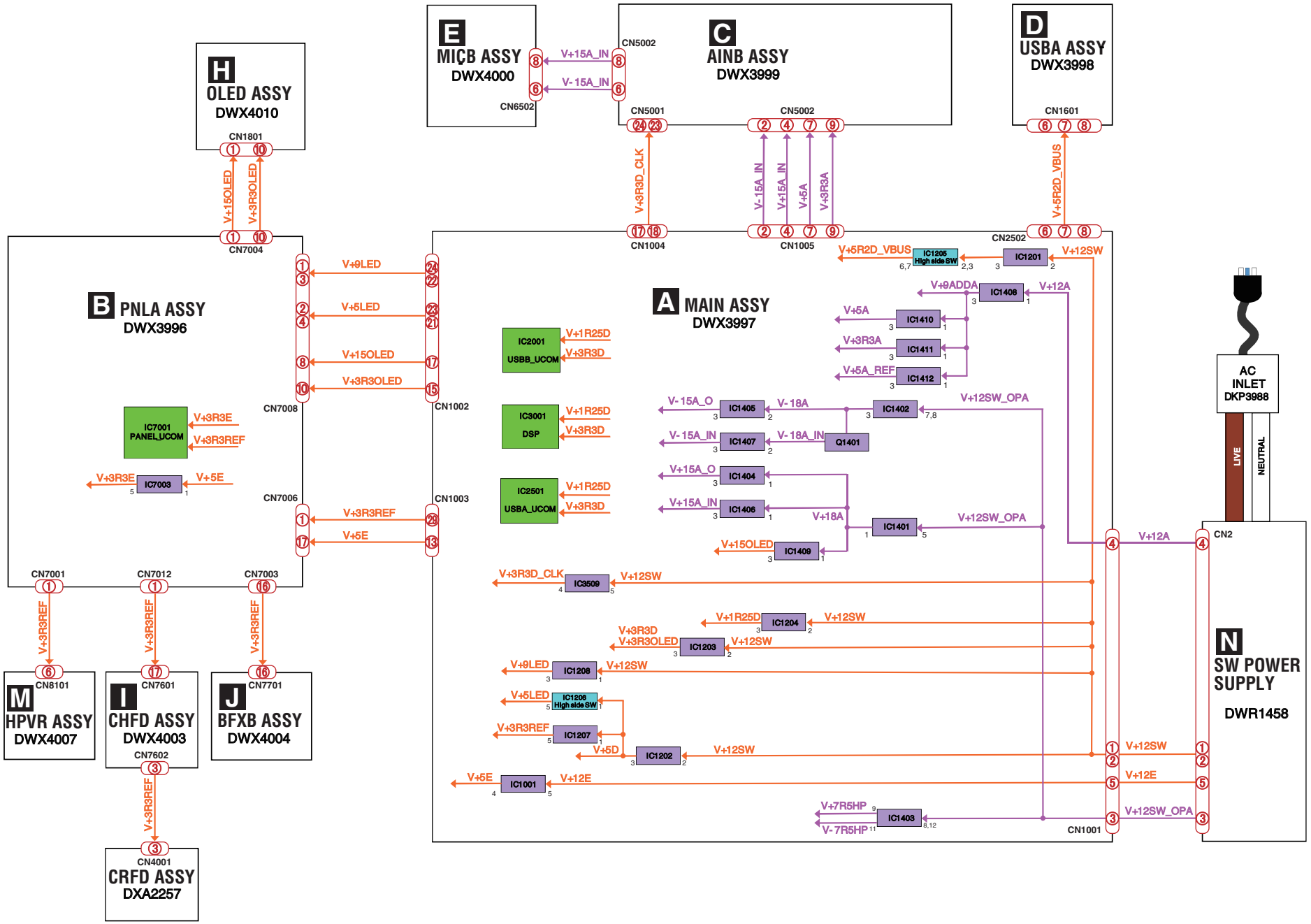
Mark	No.	Description	Part No.
NSP	1	MOTHER ASSY	DWM2653
	2	MAIN ASSY	DWX3997
	2	USBA ASSY	DWX3998
	2	OLED ASSY	DWX4010
NSP	1	AUDIO ASSY	DWM2654
	2	AINB ASSY	DWX3999
	2	MICB ASSY	DWX4000
	2	HPJK ASSY	DWX4001
	2	HPJM ASSY	DWX4002
	1	PNLA ASSY	DWX3996
NSP	1	SUB ASSY	DWM2655
	2	CHFD ASSY	DWX4003
	2	BFXB ASSY	DWX4004
	2	MTRM ASSY	DWX4005
	2	PWSB ASSY	DWX4006
	2	HPVR ASSY	DWX4007
	1	SW POWER SUPPLY	DWR1548
NSP	1	CRFD ASSY	DWX3258

4. BLOCK DIAGRAM

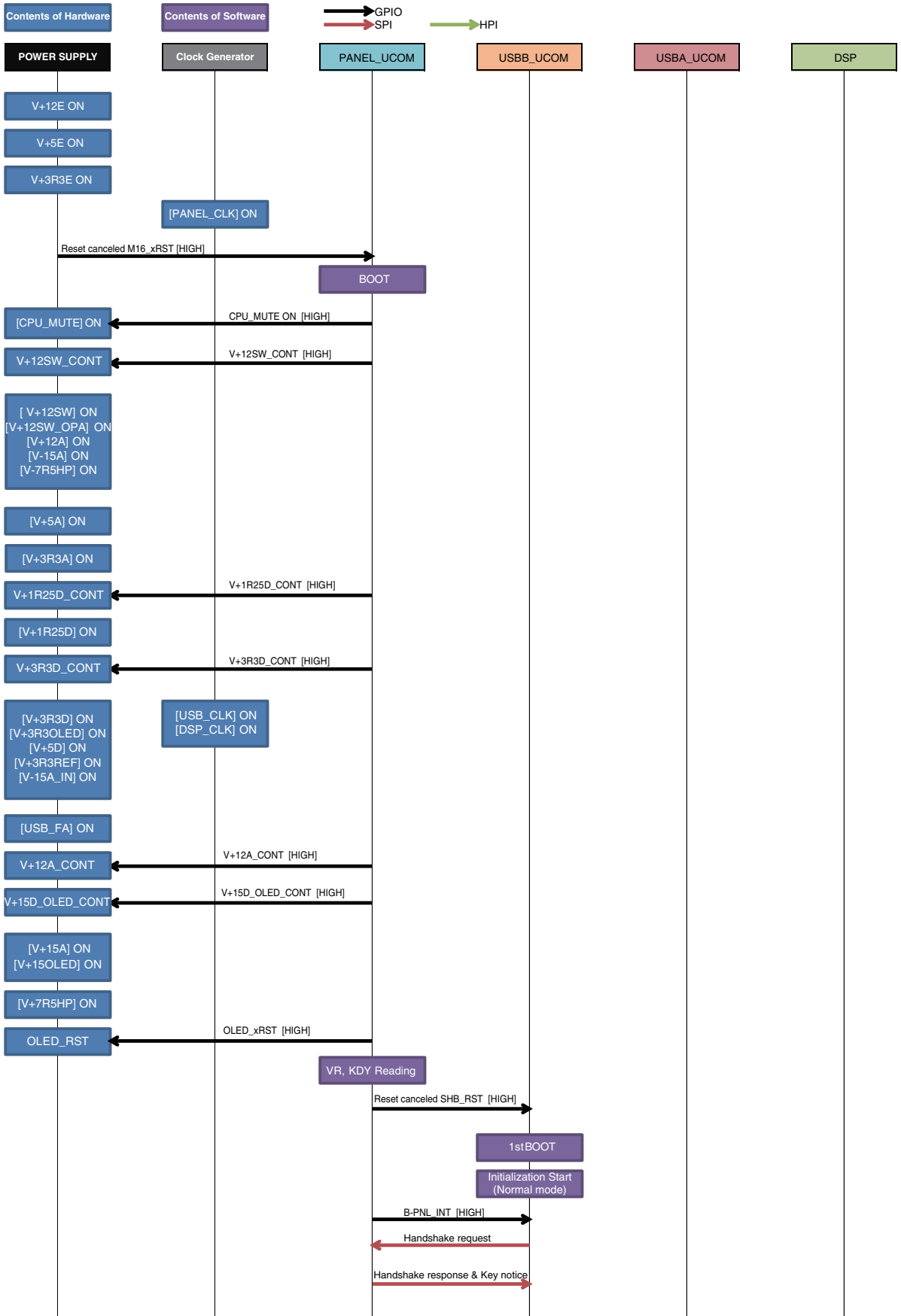


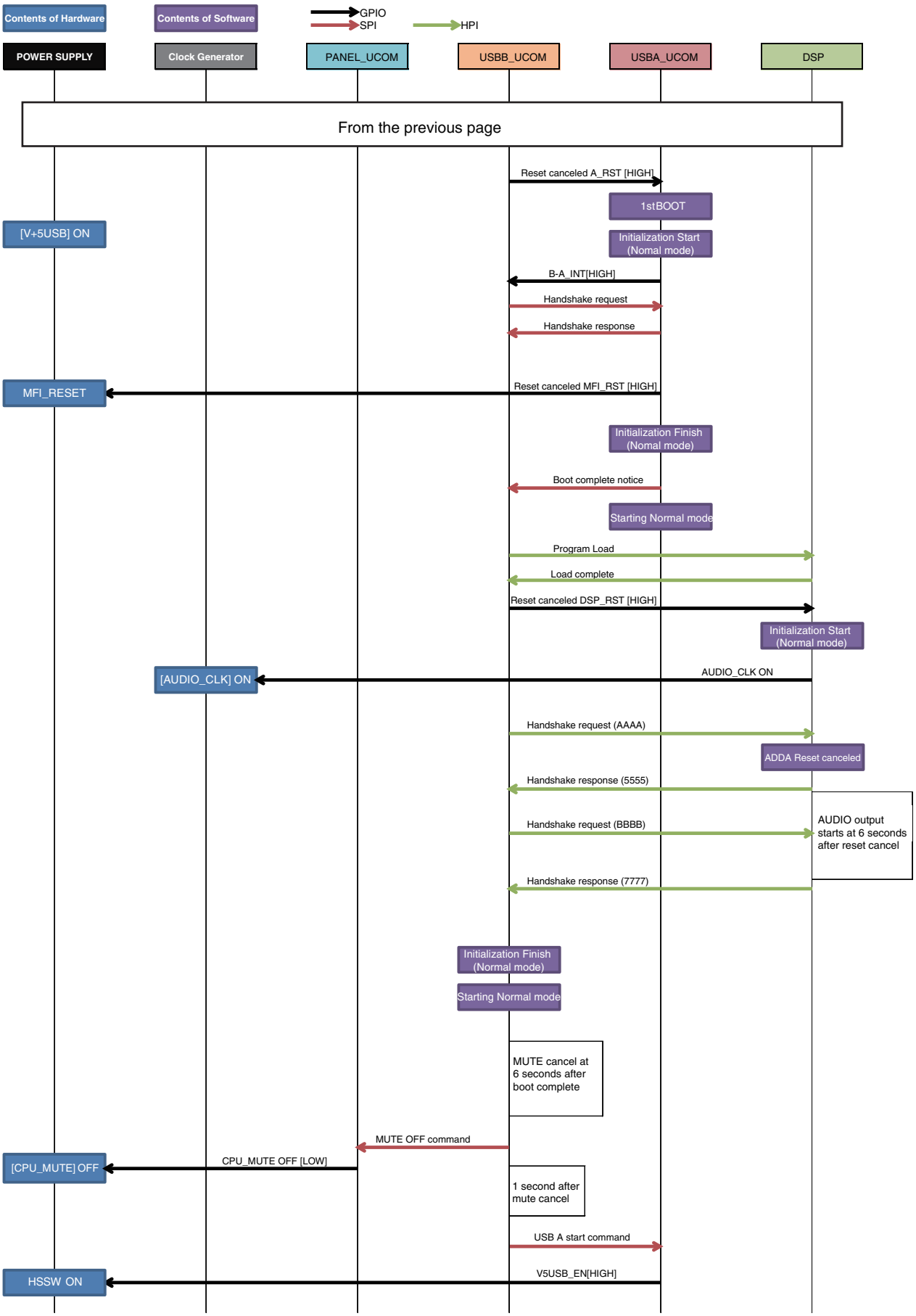
4.2 BLOCK DIAGRAM




H
OLED ASSY
DWX4010
CN1801
V+15OLED
V+3R3OLED
CN7004
E
MIÇB ASSY
DWX4000
CN6502
V+15A_IN
V- 15A_IN
CN5002
C
AINB ASSY
DWX3999
CN5001
CN5002
V+3R3D_CLK
V- 15A_IN
V+15A_IN
V+5A
V+3R3A
CN1004
CN1005
D
USBA ASSY
DWX3998
CN1601
V+5R2D_VBUS
CN2502
V+5R2D_VBUS
IC1205
High side SW
IC1201
V+12SW
B
PNLA ASSY
DWX3996
V+9LED
V+5LED
V+15OLED
V+3R3OLED
CN7008
CN1002
IC7001
PANEL_UCOM
V+3R3E
V+3R3REF
IC7003
V+3R3E
V+5E
CN7006
CN1003
V+3R3REF
V+5E
A
MAIN ASSY
DWX3997
IC2001
USBB_UCOM
V+1R25D
V+3R3D
IC3001
DSP
V+1R25D
V+3R3D
IC2501
USBA_UCOM
V+1R25D
V+3R3D
V+9ADDA
IC1408
V+12A
V+5A
IC1410
V+3R3A
IC1411
V+5A_REF
IC1412
V- 15A_O
IC1405
V- 18A
IC1402
V+12SW_OPA
V- 15A_IN
IC1407
V- 18A_IN
Q1401
V+15A_O
IC1404
V+15A_IN
IC1406
V+18A
IC1401
V+12SW_OPA
V+15OLED
IC1409
V+3R3D_CLK
IC3509
V+12SW
V+1R25D
IC1204
V+12SW
V+3R3D
V+3R3OLED
IC1203
V+12SW
V+9LED
IC1208
V+12SW
V+5LED
IC1206
High side SW
V+3R3REF
IC1207
V+5D
IC1202
V+12SW
V+5E
IC1001
V+12E
V+7R5HP
IC1403
V- 7R5HP
V+12SW_OPA
CN1001
CN7001
CN7012
CN7003
V+3R3REF
M
HPVR ASSY
DWX4007
CN8101
I
CHFD ASSY
DWX4003
CN7601
CN7602
V+3R3REF
CRFD ASSY
DXA2257
CN4001
J
BFXB ASSY
DWX4004
CN7701
AC
INLET
DKP3988
LIVE
NEUTRAL
CN2
N
SW POWER
SUPPLY
DWR1458
V+12A
V+12SW
V+12E
V+12SW_OPA

5. DIAGNOSIS
5.1 STARTUP SEQUENCE




Contents of Hardware
Contents of Software
GPIO
SPI
HPI
POWER SUPPLY
Clock Generator
PANEL_UCOM
USBB_UCOM
USBA_UCOM
DSP
From the previous page
Reset canceled A_RST [HIGH]
1stBOOT
[V+5USB] ON
Initialization Start (Nomal mode)
B-A_INT[HIGH]
Handshake request
Handshake response
MFI_RESET
Reset canceled MFI_RST [HIGH]
Initialization Finish (Nomal mode)
Boot complete notice
Starting Normal mode
Program Load
Load complete
Reset canceled DSP_RST [HIGH]
Initialization Start (Normal mode)
[AUDIO_CLK] ON
AUDIO_CLK ON
Handshake request (AAAA)
ADDA Reset canceled
Handshake response (5555)
AUDIO output starts at 6 seconds after reset cancel
Handshake request (BBBB)
Handshake response (7777)
Initialization Finish (Normal mode)
Starting Normal mode
MUTE cancel at 6 seconds after boot complete
MUTE OFF command
[CPU_MUTE] OFF
CPU_MUTE OFF [LOW]
1 second after mute cancel
USB A start command
HSSW ON
V5USB_EN[HIGH]

5.2 TROUBLESHOOTING

Table of Contents in Troubleshooting

About [Observation Point ○∗∗ etc.]

Diagnosis/waveform confirmation-point numbers described in this section correspond to the numbers on the schematic diagrams and PCB connection diagrams.
In addition, classify the ASSY in the first alphabet.

Troubleshooting Table	Diagnosis Point	Diagnosis ASSY	
[1]	[M**] [P**]	MAIN ASSY PNLA ASSY	(DWX3997) (DWX3996)
[2]	[M**]	MAIN ASSY	(DWX3997)
[3]	[M**] [A**] [A**]	MAIN ASSY AINB ASSY MICB ASSY	(DWX3997) (DWX3999) (DWX4000)
[4]	[M**] [A**] [A**]	MAIN ASSY HPJK ASSY HPJM ASSY	(DWX3997) (DWX4001) (DWX4002)
[5]	[M**]	MAIN ASSY	(DWX3997)
[6]	[M**] [P**] [M**]	MAIN ASSY PNLA ASSY OLED ASSY	(DWX3997) (DWX3996) (DWX4010)
[7]	[C**] [C**]	CRFD ASSY CHFD ASSY	(DWX3258) (DWX4003)
[8]	[M**]	MAIN ASSY	(DWX3997)

Measurment Condition

IN/OUT	MEASUREMENT CH	INPUT CH	INPUT LEVEL	INPUT FREQUENCY (Hz)	OUTPUT TERMINATION	REMARKS
IN	LINE	CH1/2/3/4	0dBV	1k	-	
IN	PHONO	CH1/2/3/4	-40dBV	1k	-	
IN	MIC	MIC	-40dBV	1k	-	
IN	RETURN	RETURN	0dBV	1k	-	
IN	USB	USB 1/2/3/4	0dBFS	1k	-	
OUT	MASTER 1/2	CH1/LINE	0dBV	1k	10kΩ	
OUT	BOOTH	CH1/LINE	0dBV	1k	10kΩ	
OUT	SEND	CH1/LINE	0dBV	1k	10kΩ	
OUT	HP/HP mini	CH1/LINE	0dBV	1k	32Ω	

Output diagnosis = CH1 LINE input

Setting of Switches and Volumes

SWITCH / VOLUME	SETTING	SWITCH / VOLUME	SETTING
TRIM	: CENTER	CH CUE	: OFF
ALL EQ	: CENTER	MASTER CUE	: ON
CH FADER	: MAX	CROSS FADER ASSIGN	: CENTER
MIC LEVEL	: CENTER	EQ CURVE	: EQ
MIC SW	: OFF	CH FADER CURVE	: CENTER
MASTER LEVEL	: CENTER	CROSS FADER CURVE	: CENTER
BOOTH MONITOR	: CENTER	SEND/RETURN	: 1/4" JACK
PHONES VOLUME	: CENTER	RETURN TYPE	: INSERT
HP MONO/STEREO	: STEREO	SEND/RETURN LEVEL	: CENTER
HP MIXING	: CENTER		

UTILITY SETTING

At the time of diagnosis should be to the factory reset and factory default setting.

[0] Prior confirmation

[0-1] Confirming inner wire

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
1	Inner wire not inserting, disconnection, contact point failure	Related point	Confirm that wiring materials are inserted firmly. Check the wire for disconnection.	If not inserted, insert firmly. If disconnected, replace wire.	4.1 OVERALL WIRING DIAGRAM

[0-2] Prior confirmation of power supply

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
1	Abnormality of the power supply of failure point	Power supply of the doubted IC etc.	Check the power supply used for the points to be diagnosed.	If abnormality is found, locate the power supply using the power supply map and conduct the repair.	4.3 POWER BLOCK DIAGRAM 5.3 POWER SUPPLY DIAGNOSIS INFORMATION

[1] Start Trouble

V+12E power supply abnormality or PANEL_UCOM (IC7001) start error may be the cause. In the case of blinking, refer to "5.3 POWER SUPPLY DIAGNOSIS INFORMATION."

[1-1] Power supply doesn't turn ON. UTILITY (WAKE UP) is not blinking

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
1	Power supply abnormal / Wire abnormal	MAIN ASSY IC1001 5pin M1	Check the V+12E power supply.	- If V+12E can be checked, go to [2]. - If V+12E cannot be confirmed there is a possibility of failure of the SW POWER SUPPLY (DWR1548) or failure of the wires. Replace parts.	4.3 POWER BLOCK DIAGRAM
2	Power supply abnormal	MAIN ASSY IC1001 4pin M2	Check the V+5E power supply.	- If V+5E can be checked, go to [3]. - If V+5E cannot be confirmed there is a possibility of failure of the IC1001. Check condition of the solder/replace parts.	4.3 POWER BLOCK DIAGRAM
3	RESET signal abnormal	PNLA ASSY IC7003 5pin P18	Check the V+3R3E signal.	- If V+3R3E can be checked, go to [4]. - If V+3R3E cannot be confirmed there is a possibility of failure of the IC7003. Check condition of the solder/replace parts.	-
4	16MHz CLK abnormal	PNLA ASSY X7001 3pin P1	Check the 16M_CLK signal (at 1.65 V center, 16 MHz oscillation waveform).	- If output signal can be checked, go to [5]. - If output signal cannot be confirmed there is a possibility of failure of the Crystal(X7001) Block. Check condition of the solder/replace parts.	- waveform P1
5	PANEL_UCOM reset	PNLA ASSY IC7002 1pin P19	Confirm that M16_xRST signal becomes HIGH.	- If the output signal doesn't become HIGH, there is a possibility of failure of the IC7002. Check condition of the solder/replace parts.	-
6	PANEL_UCOM failure	PNLA ASSY	If it does not improve in the above.	There is a possibility of failure of the PANEL_UCOM (IC7001). Check condition of the solder/replace parts.	-

[2] Abnormality display

As OLED ASSY abnormality display doesn't exist, check the conditions using the three LEDs above the MAIN ASSY.
Each IC may have a communication error.

[2-1] MAIN ASSY D2001 is not blinking. (Lighting state, light-off state)

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
1	USBB_CLK abnormal	MAIN ASSY IC2001 84pin M15	Check the USBB_CLK (at 1.65 V center, 13.33 MHz oscillation waveform).	- If output signal can be checked, go to [2]. - If output signal cannot be confirmed there is a possibility of failure of the Crystal(X2002) Block. - Check condition of the solder/replace parts.	- waveform M15
2	PANEL_UCOM to USBB_UCOM RESET communication failure	MAIN ASSY IC2001 88pin M14	Confirm that B_RST becomes HIGH.	- If B_RST HIGH can be confirmed, go to [3]. - If B_RST HIGH cannot be confirmed, check the communication line between PANEL_UCOM and USBB_UCOM.	-
3	USBB_UCOM to FLASH communication failure	MAIN ASSY M7 M8 M9 M10		- USBB_UCOM(IC2001) to SW IC(IC2004) to FLASH(IC2003) communication line may have abnormality. Check condition of the solder/replace parts. - Still if symptoms do not improve, replace the PC board.	-

[2-2] MAIN ASSY D2501 is not blinking. (Lighting state, light-off state)

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
1	USBA_CLK abnormal	MAIN ASSY IC2501 84pin M20	Check the USBA_CLK (at 1.65 V center, 13.33 MHz oscillation waveform).	- If output signal can be checked, go to [2]. - If output signal cannot be confirmed there is a possibility of failure of the Crystal(X2002) Block. - Check condition of the solder/replace parts.	- waveform M20
2	USBB_UCOM to USBA_UCOM RESET communication failure	MAIN ASSY IC2501 88pin M19	Confirm that A_RST becomes HIGH.	- If A_RST HIGH can be confirmed, go to [3]. - If A_RST HIGH cannot be confirmed, check the communication line between USBB_UCOM and USBA_UCOM.	-
3	USBA_UCOM to FLASH communication failure	MAIN ASSY M7 M8 M9 M10		- USBA_UCOM(IC2501) to SW IC(IC2004) to FLASH(IC2003) communication line may have abnormality. Check condition of the solder/replace parts. - Still if symptoms do not improve, replace the PC board.	-

[2-3] MAIN ASSY D3001 is not blinking. (Lighting state, light-off state)

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
1	DSP CLK abnormal	MAIN ASSY IC3002 2pin M22	Check the DSP_PLL (at 1.65 V center, 24.576MHz oscillation waveform).	- If output signal can be checked, go to [2]. - If output signal cannot be confirmed there is a possibility of failure of the Crystal(X3502) Block . - Check condition of the solder/replace parts.	- waveform M22
2	USBB_UCOM to DSP RESET communication failure	MAIN ASSY IC2001 193pin M21	Confirm that DSP_RST becomes HIGH.	- Check the communication line between USBB_ UCOM and USBA_UCOM.	-
3	USBB_UCOM to DSP communication (HPI) failure	MAIN ASSY M23		- USBB_UCOM(IC2001) to DSP(IC3001) HPI communication line may have abnormality. - Check condition of the solder/replace parts. - Still if symptoms do not improve, replace the PC board.	-

[3] AUDIO INPUT

[3-1] LINE, PHONO cannot be inputted

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
0	Prior confirmation	PC, LINE, PHONO changeover switch Each CH TRIM CH level meter	Confirm that position is correct. When you enter the audio, check the CH level meter is lighting.	- In the case that CH level meter is lighting =>OUTPUT may be faulty. Go to [4] AUDIO OUTPUT - In the case that CH level meter is not lighting =>go to [1]	Operating Instructions
1	Parts failure	AINB ASSY CH*_L+/L-, CH*_R+/R- A8 A9	[Confirming the input before ADC] Check the audio signals (sine wave) via relevant signal route.	- In the case that audio signal doesn't exist =>There is a possibility of failure of the analog circuit. Check condition of the solder/replace parts. - In the case that audio signal exists =>go to [2]	- waveform A8 waveform A9
2	Parts failure	AINB ASSY ADAT_CH* CN5001(CH1) 38pin CN5001(CH2) 34pin CN5001(CH3) 18pin CN5001(CH4) 14pin A19	[Confirming the input after ADC] Check the audio signals (other than sticking to LOW or HIGH) via relevant signal route.	- In the case that signal is sticking =>There is a possibility of failure of the CH1-4 ADC and peripheral circuit. Check condition of the solder of ADC and peripheral circuit/replace parts. - In the case that audio signal exists =>go to [3].	- waveform A19
3	Parts failure/ Connection failure	MAIN ASSY ADAT_CH* CN1004(CH1) 3pin CN1004(CH2) 7pin CN1004(CH3) 23pin CN1004(CH4) 27pin M56	[Confirming the input after ADC] Check the audio signals (other than sticking to LOW or HIGH) via relevant signal route.	- In the case that audio signal doesn't exist =>There is a possibility of failure of the wires. Replace wires. - In the case that audio signal exists =>There is a possibility of failure of the DSP(IC3001). Replace MAIN ASSY.	- waveform A19

[3-2] MIC is not inputted

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
0	Prior confirmation	MIC LEVEL TRIM MASTER level meter	Confirm that position is correct . When you enter the audio, check the MASTER level meter is lighting.	- In the case that MASTER level meter is lighting =>OUTPUT may be faulty. Go to [4] AUDIO OUTPUT - In the case that MASTER level meter is not lighting =>go to [1]	Operating Instructions
1	Parts failure	MICB ASSY beforeTRIM A20	[Confirming the input] Check the audio signals (sine wave) via relevant signal route.	- In the case that audio signal doesn't exist =>There is a possibility of failure of previous analog circuit. Check condition of the solder/replace parts. - In the case that audio signal exists =>go to [2]	- waveform A20
2	Parts failure	AINB ASSY after TRIM IC5904 2pin A15	[Confirming the input] Check the audio signals (sine wave) via relevant signal route.	- In the case that audio signal doesn't exist =>There is a possibility of failure of previous analog circuit or failure of the connector parts between AINB ASSY and MICB ASSY. Check condition of the solder/replace parts. - In the case that audio signal exists =>go to [3]	- waveform A15
3	Parts failure	AINB ASSY CN5001 40pin A16	[Confirming the input after ADC] Check the audio signals (other than sticking to LOW or HIGH) via relevant signal route.	- In the case that signal is sticking =>There is a possibility of failure of the MIC_ADC (IC5904) and peripheral circuit. Check condition of the solder of ADC and peripheral circuit/replace parts.	- waveform A16
4	Parts failure/ Connection failure	MAIN ASSY ADAT_MIC CN1004 1pin M57	[Confirming the input after ADC] Check the audio signals (other than sticking to LOW or HIGH) via relevant signal route.	- In the case that audio signal doesn't exist =>There is a possibility of failure of the wires. Replace wires. - In the case that audio signal exists =>There is a possibility of failure of the DSP(IC3001). Replace MAIN ASSY.	- waveform A16

[3-3] RETURN is not inputted

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
0	Prior confirmation	•1/4"JACK ⇔ select switch •SEND/RETURN_ ON/OFF switch •SEND/RETURN_ LEVEL	- Confirming that switch becomes [1/4"JACK] - Confirming that SEND/RETURN_ ON/OFF switch becomes ON - Confirming that SEND/RETURN_ LEVEL is other than MIN * Please input RETURN also to Lch even when diagnosing Rch.	- In the case that CH level meter is lighting =>OUTPUT may be faulty. Go to [4] AUDIO OUTPUT - In the case that CH level meter is not lighting=> go to [1]	Operating Instructions
1	Parts failure	AINB ASSY RETURN_L/R A12	[Confirming the input] Check the audio signals (sine wave) via relevant signal route.	- In the case that audio signal doesn't exist =>There is a possibility of failure of previous analog circuit. Check condition of the solder/replace parts. - In the case that audio signal exists =>go to [2]	- waveform A12
2	Parts failure	AINB ASSY ADAT_RETURN CN5001 10pin A13	[Confirming the input after ADC] Check the audio signals (other than sticking to LOW or HIGH) via relevant signal route.	- In the case that audio signal doesn't exist =>There is a possibility of failure of the RETURN_ADC (IC5903) and peripheral circuit. Check condition of the solder of the ADC and peripheral circuit/replace parts. - In the case that audio signal exists =>go to [3]	- waveform A13
3	Parts failure/ Connection failure	MAIN ASSY ADAT_RETURN CN1004 31pin M58	[Confirming the input after ADC] Check the audio signals (other than sticking to LOW or HIGH) via relevant signal route.	- In the case that audio signal doesn't exist =>There is a possibility of failure of the wires. Replace wires. - In the case that audio signal exists =>There is a possibility of failure of the DSP(IC3001). Replace MAIN ASSY.	- waveform A13

[4] AUDIO OUTPUT

[4-1] MASTER1/MASTER2 is not outputted

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
1	Output confirmation	MASTER1 / MASTER2	Check the terminal which is not outputted.	- Two are not outputted =>go to [2] - Only MASTER1 is not outputted =>go to [5] - Only MASTER2 is not outputted =>go to [6]	-
2	Parts failure	MAIN ASSY xRST_4458 IC3507 8pin M24	[Confirming the RESET signal] Confirm that xRST_4458 signal becomes HIGH.	- In the case LOW =>go to [3] - In the case HIGH =>xRST_4458 signal route may have solder fault. Check condition of the solder/replace parts.	-
3	Parts failure	MAIN ASSY IC4001 32/33/36/37pin M34 M35	[Confirming the audio output] Check the audio signals (other than sticking to LOW or HIGH) via relevant signal route.	- In the case that audio signal doesn't exist. =>There is a possibility of failure of the DSP(IC3001) or AUDIO_CLK . Replace MAIN ASSY. - In the case that audio signal exists =>go to [4]	- waveform M34 waveform M35
4	Parts failure	MAIN ASSY IC4203,IC4204 1/7pin M36 M37	[Confirming the audio output] Check the audio signals (sine wave) via relevant signal route.	- In the case that audio signal doesn't exist. =>There is a possibility of failure of the IC4201-IC4204 and peripheral circuit. Check condition of the solder/replace parts. - In the case that audio signal exists =>go to [5]	- waveform M36 waveform M37
5	Parts failure	MAIN ASSY IC4205,IC4206 1/7pin M59 M60	[Confirming the audio output] Check the audio signals (sine wave) via relevant signal route.	- In the case that audio signal doesn't exist. =>There is a possibility of failure of the IC4205, IC4206 and peripheral circuit. Check condition of the solder/replace parts. - In the case that audio signal exists =>There is a possibility of failure of the JACK and peripheral circuit. Check condition of the solder/replace parts.	- waveform M38 waveform M39
6	Parts failure	MAIN ASSY IC4207 1/7pin M61	[Confirming the audio output] Check the audio signals (sine wave) via relevant signal route.	- In the case that audio signal doesn't exist. =>There is a possibility of failure of the IC4207 and peripheral circuit. Check condition of the solder/replace parts. - In the case that audio signal exists =>There is a possibility of failure of the JACK and peripheral circuit. Check condition of the solder/replace parts.	- waveform M40

[4-2] BOOTH is not outputted

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
1	Parts failure	MAIN ASSY xRST_4458 IC3507 8pin M24	[Confirming the RESET signal] Confirm that xRST_4458 signal becomes HIGH.	- In the case LOW =>go to [2] - In the case HIGH =>xRST_4458 signal route may have solder fault. Check condition of the solder/replace parts.	-
2	Parts failure	MAIN ASSY IC4001 38/39/42/43 pin M41 M42	[Confirming the audio output] Check the audio signals (other than sticking to LOW or HIGH) via relevant signal route.	- In the case that audio signal doesn't exist =>There is a possibility of failure of the DSP(IC3001) or AUDIO_CLK. Replace MAIN ASSY. - In the case that audio signal exists=>go to [3]	- waveform M41 waveform M42
3	Parts failure	MAIN ASSY IC4401,IC4402 1/7pin M43 M44	[Confirming the audio output] Check the audio signals (sine wave) via relevant signal route.	- In the case that audio signal doesn't exist =>There is a possibility of failure of the IC4401, IC4402 and peripheral circuit . Check condition of the solder/replace parts. - In the case that audio signal exists =>go to [4]	- waveform M43 waveform M44
4	Parts failure	MAIN ASSY IC4403,IC4404 1/7pin M62 M63	[Confirming the audio output] Check the audio signals (sine wave) via relevant signal route.	- In the case that audio signal doesn't exist =>There is a possibility of failure of the IC4403, IC4404 and peripheral circuit . Check condition of the solder/replace parts. - In the case that audio signal exists =>There is a possibility of failure of JACK and peripheral circuit . Check condition of the solder/replace parts.	- waveform M45 waveform M46

[4-3] SEND is not outputted

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
1	Parts failure	MAIN ASSY xRST_4458 IC3507 8pin M24	[Confirming the RESET signal] Confirm that xRST_4458 signal becomes HIGH.	- In the case HIGH =>go to [2] - In the case LOW =>xRST_4458 signal route may have solder fault. Check condition of the solder/replace parts.	-
2	Parts failure	MAIN ASSY IC4001 24/25/28/29 pin M47 M48	[Confirming the audio output] Check the audio signals (other than sticking to LOW or HIGH) via relevant signal route.	- In the case that audio signal doesn't exist =>There is a possibility of failure of the DSP(IC3001) or AUDIO_CLK. Replace MAIN ASSY. - In the case that audio signal exists. In the case that HP is not outputted =>go to [3]	- waveform M47 waveform M48
3	Parts failure	MAIN ASSY IC4601 1/7pin M64	[Confirming the audio output] Check the audio signals (sine wave) via relevant signal route.	- In the case that audio signal doesn't exist =>There is a possibility of failure of the IC4601and peripheral circuit . Check condition of the solder/replace parts. - In the case that audio signal exists. =>There is a possibility of failure of JACK and peripheral circuit . Check condition of the solder/replace parts.	- waveform M49

[4-4] PHONES is not outputted

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
1	Parts failure	MAIN ASSY xRST_4458 IC3507 8pin M24	[Confirming the RESET signal] Confirm that xRST_4458 signal becomes HIGH.	- In the case HIGH =>go to [2] - In the case LOW =>xRST_4458 signal route may have solder fault. Check condition of the solder/replace parts.	-
2	Parts failure	MAIN ASSY IC4001 18/19/22/23 pin M50 M51	[Confirming the audio output] Check the audio signals (other than sticking to LOW or HIGH) via relevant signal route.	- In the case that audio signal doesn't exist =>There is a possibility of failure of the DSP(IC3001) or AUDIO_CLK. Replace MAIN ASSY. - In the case that audio signal exists. In the case that HP is not outputted =>go to [3]	- waveform M50 waveform M51
3	Parts failure	MAIN ASSY C4602 1/7pin M52	[Confirming the audio output] Check the audio signals (sine wave) via relevant signal route.	- In the case that audio signal doesn't exist =>There is a possibility of failure of the IC4602 and peripheral circuit. Check condition of the solder/replace parts. - In the case that audio signal exists =>go to [4]	- waveform M52
4	Parts failure	MAIN ASSY IC4601 1/3pin IC4602 1/3pin M53	[Confirming the audio output] Check the audio signals (sine wave) via relevant signal route.	- In the case that audio signal doesn't exist =>There is a possibility of failure of the IC4603, Q4609-Q4612 and peripheral circuit. Check condition of the solder/replace parts. - In the case that audio signal exists =>go to [5]	- waveform M53
5	Parts failure/ Connection failure	HPJK ASSY CN6601 1/3pin HPJM ASSY CN6701 1/3pin A22 A23	[Confirming the audio output] Check the audio signals (sine wave) via relevant signal route.	- In the case that audio signal doesn't exist =>There is a possibility of failure of the wires. Replace wires. - In the case that audio signal exists. =>There is a possibility of failure of JACK and peripheral circuit . Check condition of the solder/replace parts.	- waveform M53

[5] DVS

[5-1] USB does not recognized

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
0	Prior confirmation	PC,LINE,PHONO select switch CH level meter	- Confirm that select switch is set to PC. - Install the latest driver. - Confirm that DJM-750MK2 utility of PC is set correctly.	Set correctly.	Operating Instructions
1	Power supply abnormal / Connection failure	MAIN ASSY IC2001 93/94/95 pin M11 M12 M13 M16	[Power supply] Confirm that voltage is approximately 5V (4.75 - 5.25V) in the condition that DJM-750MK2 is connected to the PC. [D±USB] Confirm that wave form is generated in the condition that DJM-750MK2 is connected to the PC.	In the case of abnormality =>There is a possibility of failure of the MAIN ASSY. Replace MAIN ASSY.	-

[6] OLED

OLED is controlled by PANEL_UCOM(IC7001).

[6-1] OLED is not lighting.

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
1	Power supply abnormal	PNLA ASSY CN7008 8pin P20	Check the V+15OLED power supply.	- If V+15OLED cannot be checked, go to [2]. - If V+15OLED can be checked, go to [3].	4.3 POWER BLOCK DIAGRAM 5.3 POWER SUPPLY DIAGNOSIS INFORMATION
2	Power supply abnormal/ Wire abnormal	MAIN ASSY IC1002 17pin M6	Check the V+15OLED power supply.	- If V+15OLED can be confirmed there is a possibility of failure of the wires. Replace wires. - If V+15OLED cannot be confirmed there is a possibility of failure of the IC1409. Check condition of the solder/replace parts.	4.1 OVERALL WIRING DIAGRAM 4.3 POWER BLOCK DIAGRAM 5.3 POWER SUPPLY DIAGNOSIS INFORMATION
3	Power supply abnormal/ Wire abnormal	PNLA ASSY CN7008 10pin P21	Check the V+3R3OLED power supply.	- If V+3R3OLED can be checked, go to [4]. - If V+3R3OLED cannot be confirmed there is a possibility of failure of the wires. Replace patrs.	4.3 POWER BLOCK DIAGRAM 5.3 POWER SUPPLY DIAGNOSIS INFORMATION
4	Signal failure	PNLA ASSY CN7004 1pin OLED_xCS 2pin OLED_ADDR 4pin OLED_MOSI 6pin OLED_SCL 8pin OLED_xRST P22	Check the output signals and connection conditions of OLED communication line inside the PNLA ASSY.	- If output signals don't exist, check the installation of PANEL_UCOM(IC7001) and wire conditions. If there are no problems, ports may be broken. Replace parts. If connection conditions have problems, repair using soldering. In the case of no problems=>go to [5].	-
5	Signal failure/ Connection failure	OLED ASSY CN1801 1pin OLED_XCS 2pin OLED_ADDR 4pin OLED_MOSI 6pin OLED_SCL 8pin OLED_xRST M55	Check the output signals and connection conditions of OLED communication line inside the OLED ASSY.	- If output signals don't exist, there is a possibility of failure of the wires. Replace wires. - If each signals are normal and OLED is not lighting, there is a possibility of failure of the OLED ASSY parts. Replace parts.	-

[7] CROSS FADER

[7-1] CROSS FADER operation is abnormal

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
1	Calibration	Calibration	Conduct the calibration in the test mode and confirm that the conditions become normal.	If calibration cannot be conducted or result is NG=> go to [7-2].	6.1 TEST MODE

[7-2] CROSS FADER doesn't operate

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
1	CRFD ASSY doesn't operate.	CRFD ASSY [Power supply] V+3R3REF IC4001 5pin [GND] GNDREF IC4001 2pin [AD_CRS_ FADER signal] IC4001 4pin, R4002,R4003 [7-1] same as C1 C2 C3	[Power supply] Confirm that power supply is 3.3V. [GND] Confirm that GNDREF is connected with GNDD of MAIN ASSY. [AD_CRS_FADER signal] Check the AD_CRS_FADER signal of each diagnostic point while operating the CROSS FADER	- [Power supply] In the case of abnormal =>IC4001 may have solder fault. If solder fault repairing cannot solve the abnormality => go to [2]. - [GND] In the case of abnormal =>IC4001 may have solder fault. If solder fault repairing cannot solve the abnormality =>go to [2]. - [AD_CRS_FADER signal] In the case that signal is not outputted =>Resistance or IC4001 may have solder fault. Repair or replace parts. - All above described are normal =>go to [2]	-
2	Connection failure/ Signal failure	CHFD ASSY [Power supply] V+3R3D_REF_L CN7602 3pin [GND] GNDD_REF_L CN7602 1pin [CROSS_ FADER signal] CRS_FADER CN7602 2pin [7-1] same as C4 C5 C6	[Power supply] Confirm that power supply is 3.3V. [GND] Confirm that GNDD_REF_L is connected with GNDD_REF of PNLA ASSY. [CROSS_FADER signal] Check the CROSS_FADER signal of each diagnostic point while operating the CROSS FADER	- [Power supply] In the case of normal =>Wire may have disconnection. In the case of abnormality =>Wire may have disconnection in the PCB. - [GND] In the case of normal =>Wire may have disconnection. In the case of abnormality =>Wire may have disconnection in the PCB. - [CROSS FADER signal] In the case that signal is not outputted, wire may have disconnection. Replace parts. -If it does not improve in the above, resistances or PANEL_UCOM(IC7001) may have solder fault. Repair or replace parts.	-

[8] USBA

[8-1] Connected device are not recognized

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
1	Power supply abnormal	MAIN ASSY IC1205 6/7pin M3	- Confirm that voltage is 5 V.	- In the case of over 5V => go to [2] - In the case of under 5V =>There is a possibility of failure of the IC1205 . Replace parts.	-
2	Parts failure	MAIN ASSY V5USBA_FA IC1205 8pin M4	[Confirming the communication signals] Confirm that V5USBA_FA becomes HIGH.	- In the case HIGH => go to [3] - In the case LOW =>V5USBA_FA route may have solder fault. Check condition of the solder/replace parts.	-
3	Parts failure	MAIN ASSY V5USBA_EN IC1205 4pin M5	[Confirming the communication signals] Confirm that V5USBA_EN becomes HIGH.	- In the case HIGH => go to [4] - In the case LOW =>V5USBA_EN route may have solder fault. Check condition of the solder/replace parts.	-
4	Parts failure		If it does not improve in the above.	- Connected equipment may be abnormal	-

[8-2] SEND/RETURN is not possible.

NO.	Cause	Diagnosis point	Confirmation item	Treatment	Reference
0	Prior confirmation	•1/4"JACK select switch •SEND/RETURN_ ON/OFF switch •SEND/RETURN_ LEVEL	- Confirming that switch becomes [] - Confirm that SEND/RETURN_ON/OFF switch becomes ON. - Confirm that SEND/RETURN_LEVEL is other than MIN		Operating Instructions
1	Parts failure	MAIN ASSY IC2501 93/94pin M17 M18	[D±USB] Confirm that wave form is generated in the condition SEND/RETURN is ON.	[D±USB] In the case of abnormality =>There is a possibility of failure of the MAIN ASSY . Replace MAIN ASSY.	-

5.3 POWER SUPPLY DIAGNOSIS INFORMATION

■ Detection of power supply voltage failure

With this unit, PANEL UCOM (IC7001) always monitors the power supply voltage. If an error is detected, startup will be immediately turned OFF.
At this time, LED of WAKE UP button blinks.

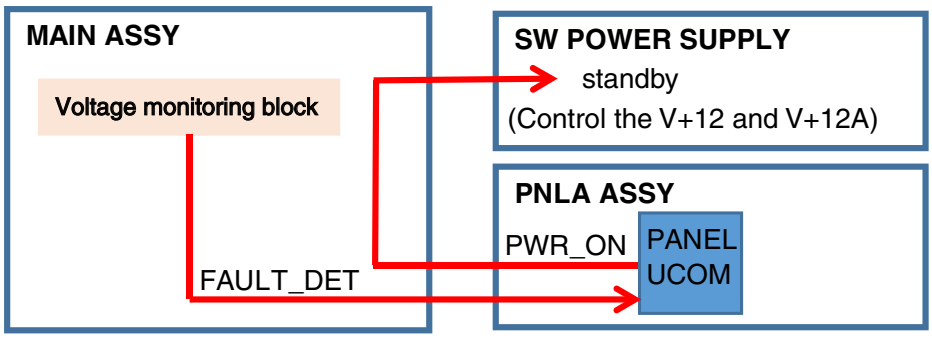
■ Power supply to be monitored

Name of power supply indicates the voltage
(example: V+3R3A ... 3.3V)

FAULT DET	High Value	Low Value
V+3R3A	4.08V	1.84V
V+3R3D	4.24V	2.35V
V+1R25D	1.76V	0.83V
V+5D	6.61V	-
V+5A	6.5V	3.71V
V+15A_O	-	11.31V
V-15A_O	-10.5V	-
V-7R5	-3.25V	-

■ Overview of detection system

• Signal notifying an error from the voltage monitoring circuit block (FAULT_DET).
If error was detected, PANEL UCOM is a signal to turn off the output of SW power supply.



■ Diagnostic method

• Error detection OFF MODE
If you turn ON the power supply while pressing CH4 CUE, MASTER CUE, EFECT ON/OFF buttons at the same time, you can turn ON the power supply in the mode that does not turn OFF the secondary power supply even in case of voltage failure.

* This is the mode for identifying the power supply whose voltage is abnormal.
It is necessary to pay attention to it because IC may be damaged to lead to destruction if the power supply is continuously turned ON out of necessity.

① While the power supply is turned OFF, check the monitored voltage does not short out with GND.
② While monitoring each monitored voltage, turn ON the power supply in this mode and check no error is generated.
* A single power ON should be within 10 seconds.

5.4 CONFIRMATION OF EACH INTERFACE CONNECTION

■ USB

[1. USB B connector]

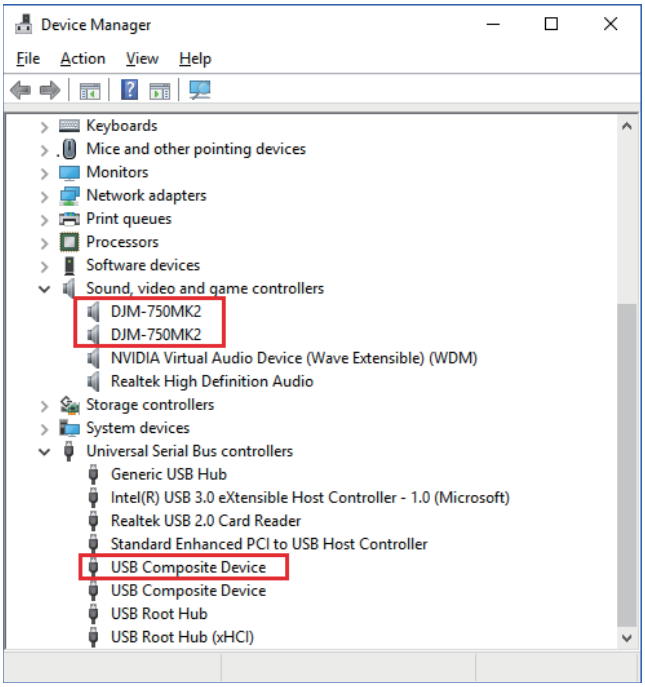
By using a PC, you can confirm that USB communication is normal between the USB B terminals of this unit and the PC.
* Driver software is required to be installed.

- Confirm using the device manager.

When this unit was connected to the PC, device is added to the device manager.
When all the contents are displayed correctly, this unit can normally communicate via the USB.

In the case of Windows7
"Start" -> "Control panel" -> "System" -> "Device Manager"
Added and displayed device
- Universal Serial Bus controllers
  USB Composite Device
- Sound, video, and game controllers
  DJM-750MK2
  DJM-750MK2

Opening the device manager on the PC makes the connection work easier to check.



[2. USB A connector]

Confirm that USB communication is normal between the USB A terminals of this unit and the external devices.
* Use a USB memory.

- Confirm using the USB connection indicator of this unit.

USB mark is lighting : USB memory is recognized normally.
USB mark is blinking : During USB memory recognition [cycle : 500 ms (lighting 250 ms/ light-off 250 ms)]
USB mark is not lighting : USB memory is not inserted.

* Memory needs several seconds to be recognized.

6. SERVICE MODE
6.1 TEST MODE

Outline of Test Mode

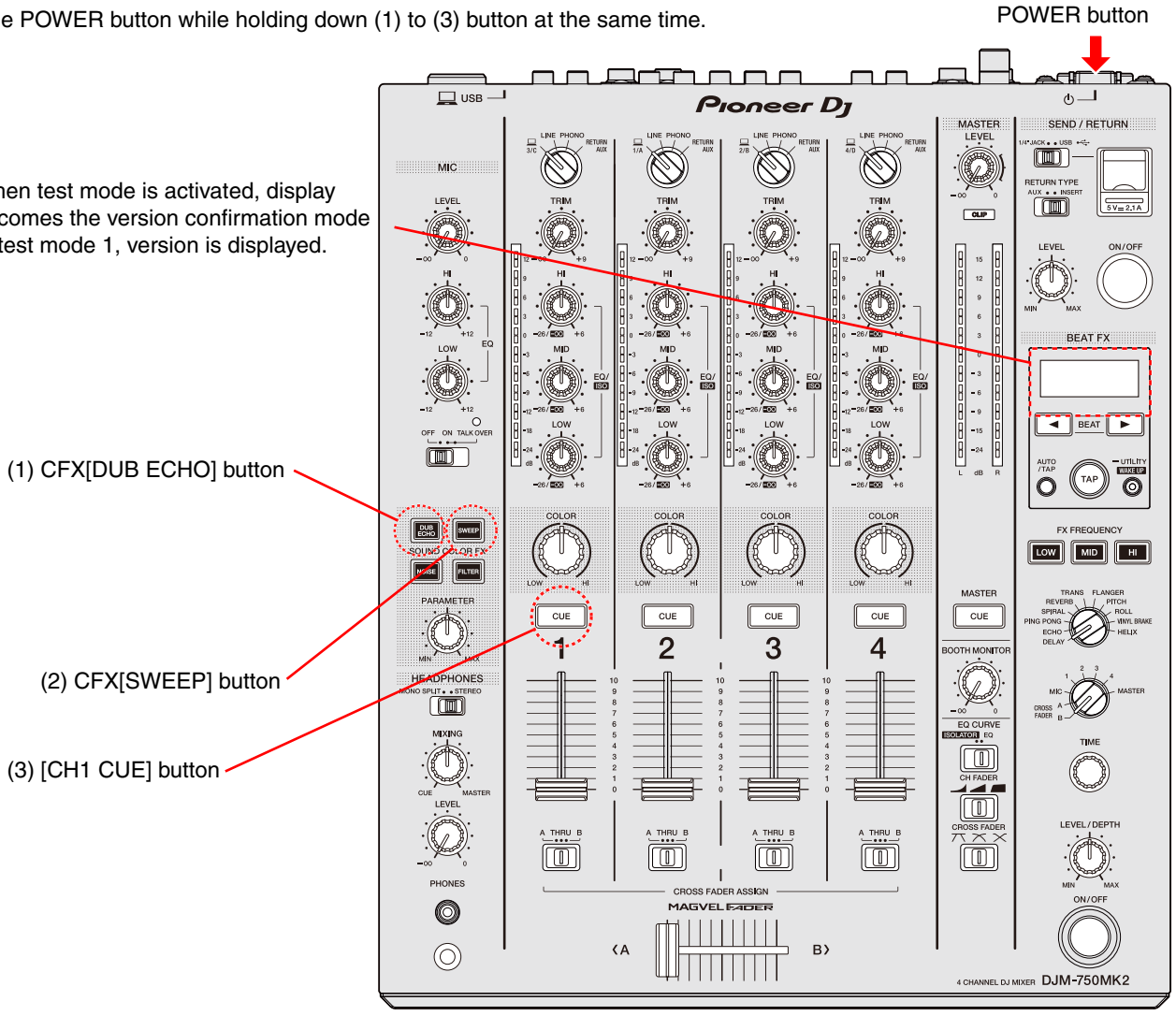
Test mode of this unit consists of 13 modes. Pressing [TAP] advances the mode to next.
First mode is always the mode 1 when a test starts. Next of the last mode is the mode 1.

mode 1	Version confirmation mode	mode 8	Fader confirmation mode
mode 2	Cross fader setting mode	mode 9	Level meter LED confirmation mode
mode 3	All light-off mode	mode 10	Volume A/D value confirmation mode
mode 4	All lighting mode	mode 11	Fader A/D value confirmation mode
mode 5	KEY confirmation mode	mode 12	Device confirmation mode
mode 6	SW confirmation mode	mode 13	OLED luminance confirmation mode
mode 7	Volume confirmation mode		

How to Start Test Mode

Press the POWER button while holding down (1) to (3) button at the same time.

When test mode is activated, display becomes the version confirmation mode of test mode 1, version is displayed.



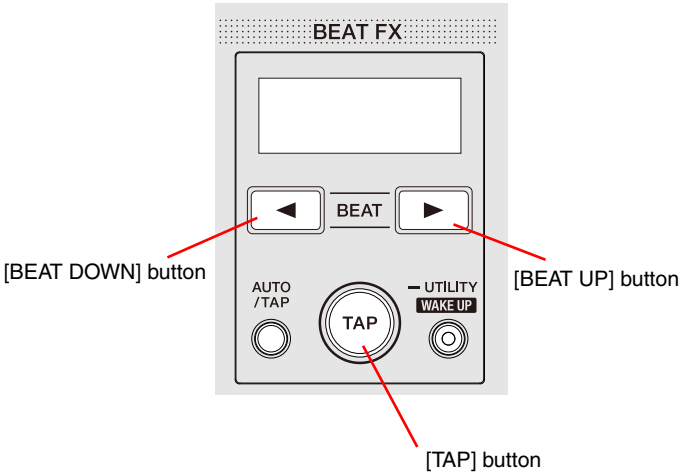
Please power supply is turned ON while pressing (1) to (3) button at the same time.
Holding down (1) to (3) button until display becomes the version confirmation mode .

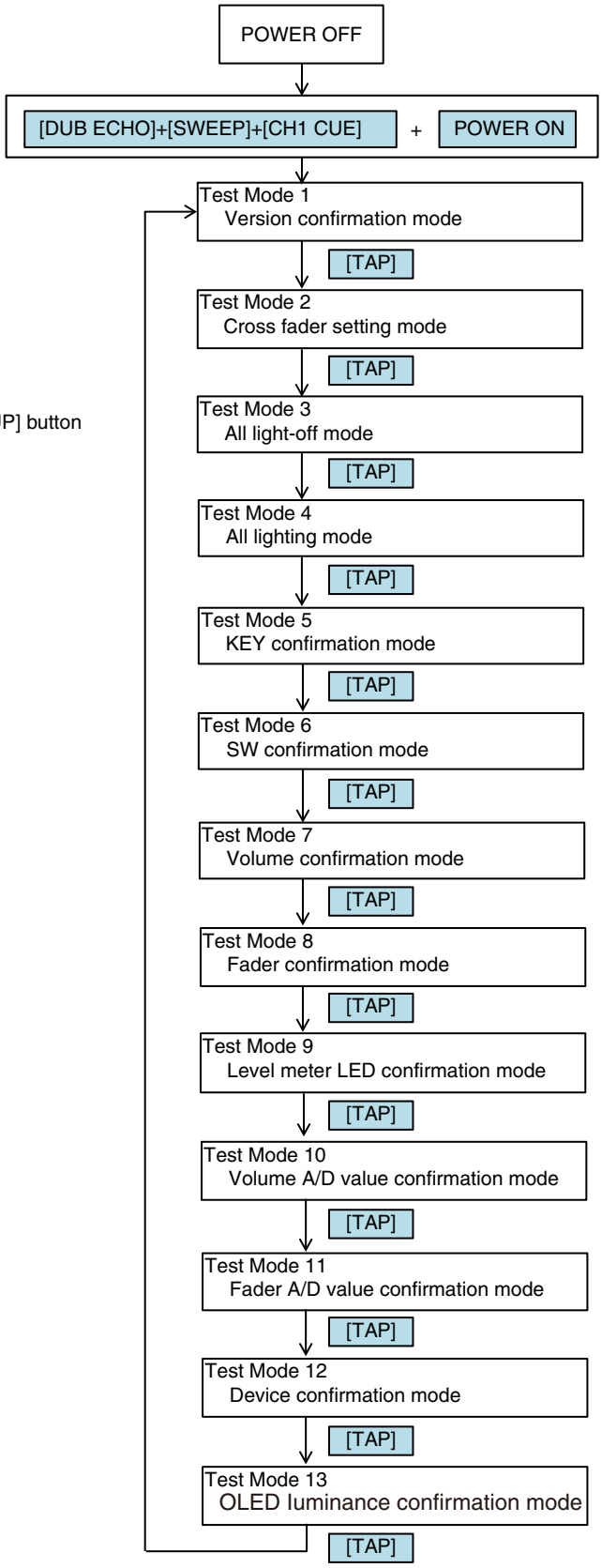
Test mode Exit Method

Please power supply is turned OFF by press the POWER button.

Mode Changing Method

Press the [TAP] button to change to next mode.





Test mode1 Version confirmation mode

Outline

This mode is to display the firmware version in this unit.

Display mode title

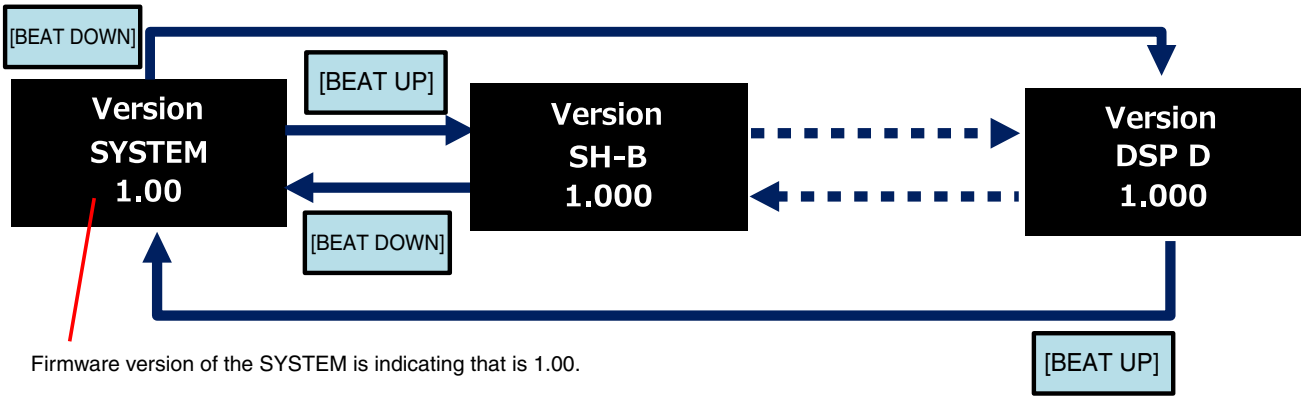
Version

Operation

[BEAT UP], [BEAT DOWN] : Page change
[TAP] : Mode change (To next mode)

Operation details

Software name	Displaying
SYSTEM	SYSTEM
SH0	SH-B
SH1	SH-A
SH-BOOT	BOOT
PANEL	PANEL
PANEL-BOOT	PANEL-B
DSP Program	DSP P
DSP Data	DSP D



Firmware version of the SYSTEM is indicating that is 1.00.

Test mode 2 Cross fader setting mode

Outline
Acquire the maximum and minimum A/D values of [Cross Fader] and set values.

Display mode title
CFDR SET

Operation
[CH1 CUE], [CH4 CUE] (lighting) : Page change(A/D value setting)
[CH2 CUE], [CH3 CUE] (lighting) : Setting start/Setting value saving
[TAP] : Mode change (to next mode)

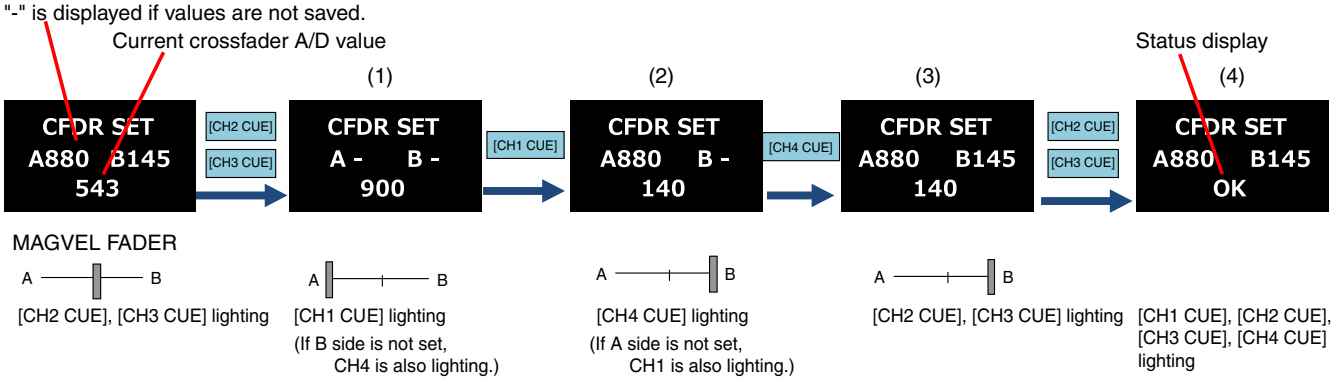
Operation details
(1) Starting the setting
Press down the [CH2 CUE] and [CH3 CUE] at the same time.
Start the setting of the maximum/minimum A/D values.
A/D values of A side and B side are displayed using "-" (bar) type.

(2) Setting of A side
Slide the [Cross Fader] to the left end and press the [CH1 CUE].
When values are determined, determined A/D values are displayed in A of the second line.

(3) Setting of B side
Slide the [Cross Fader] to the left end and press the [CH4 CUE]
When values are determined, determined A/D values are displayed in B of the second line.

(4) Saving the setting values
Press down the [CH2 CUE] and [CH3 CUE] at the same time.
Confirm the conditions depending on the status displayed in the display section.

A/D values currently saved in the A side/B side is displayed.
"-" is displayed if values are not saved.



* If error occurs, CUE lighting condition is that [CH1 CUE], [CH2 CUE],[CH3 CUE] and [CH4 CUE] become lighting, which is the setting start waiting condition.

[Status display] (Description of the status displayed in the display section)

Display	Description
OK	Save completed
NG	Parameter error
ERR	Save failed
E10	A side A/D value acquisition error
E20	B side A/D value acquisition error

Note
- When the both end A/D values of [Cross Fader] are not set, [CH1 CUE], [CH2 CUE],[CH3 CUE], [CH4 CUE] and [MASTER CUE] blink in the case of a normal startup.
- If deflection width becomes large by noise or operation mistake when trying acquiring A/D values, operation (setting) is assumed as an error. Retry is permitted maximum three times.
  If three time retries fail to acquire A/D values, acquisition error is determined.
- A/D values that are set in this mode become effective immediately after saving.
- Should an error occur, setting must be started again without changing the mode.

Test Mode 3 ALL light-off mode

Outline

LED and display will be lighting all off.

Display mode title

ALL CLEAR

* This is displayed for about 1 second at the start of mode.

Operation

[TAP](light-off) : Mode change (to next mode)

Test mode 4 All lighting mode

Outline

LED and display will be all lighting.

Display mode title

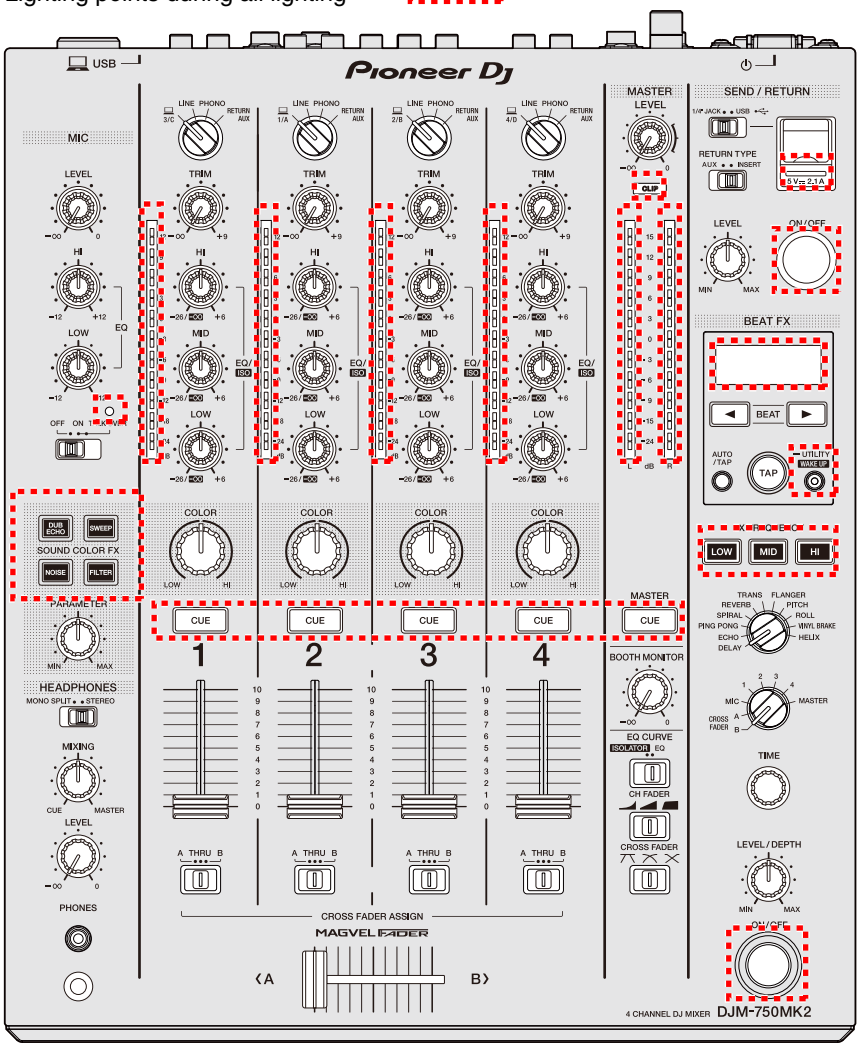
ALL SET

* This is displayed for about 1 second at the start of mode.

Operation

[TAP] : Mode change (to next mode)

Lighting points during all lighting



Test mode 5 KEY confirmation mode

Outline
Press the KEY and confirm each key operation depending on lighting of the LED and description in the display.

Display mode title
KEY TEST

Operation
Confirmed each KEY : Refer to the following table.
[TAP] : Mode change (to next mode)

Operation details

Operation key	Lighting LED	Display
DUB ECHO	DUB ECHO LED	CFX 1
SWEEP	SWEEP LED	CFX 2
NOISE	NOISE LED	CFX 3
FILTER	FILTER LED	CFX 4
CUE CH1	CUE CH1 LED	CUE 1
CUE CH2	CUE CH2 LED	CUE 2
CUE CH3	CUE CH3 LED	CUE 3
CUE CH4	CUE CH4 LED	CUE 4
CUE MASTER	CUE MASTER LED	CUE MST
SEND/RETURN ON/OFF	SEND/RETURN ON/OFF LED	S/R ON
BEAT DOWN (◀)	None	BEAT <
BEAT UP (▶)	None	BEAT >
TAP	None (because it is used for mode transition.)	None (because it is used for mode transition.)
AUTO/TAP	None	AUTO
UTILITY	WAKE UP LED	UTILITY
FX FREQUENCY LOW	FX FREQUENCY LOW LED	FREQ L
FX FREQUENCY MID	FX FREQUENCY MID LED	FREQ M
FX FREQUENCY HI	FX FREQUENCY HI LED	FREQ H
EFFECT ON/OFF	EFFECT ON/OFF LED	EFX ON

Test mode 6 SW confirmation mode

Outline

Confirm the LEDs corresponding to selected switches are lighting.
Change of the TIME knob is displayed on the display section.

Display mode title

SW TEST

Operation

Confirmed each switch :Refer to the following table.
TIME knob
[TAP] : Mode change (to next mode)

Operation details

Operation switch		Lighting LED	
INPUT SELECT CH1	: USB	CH1 Level Meter LED	12dB
	: LINE		9dB
	: PHONO		6dB
	: RETURN AUX		3dB
INPUT SELECT CH2	: USB	CH2 Level Meter LED	12dB
	: LINE		9dB
	: PHONO		6dB
	: RETURN AUX		3dB
INPUT SELECT CH3	: USB	CH3 Level Meter LED	12dB
	: LINE		9dB
	: PHONO		6dB
	: RETURN AUX		3dB
INPUT SELECT CH4	: USB	CH4 Level Meter LED	12dB
	: LINE		9dB
	: PHONO		6dB
	: RETURN AUX		3dB
CH FADER Assign CH1	: Assign A	CH1 Level Meter LED	-24dB
	: THRU		-18dB
	: Assign B		-12dB
CH FADER Assign CH2	: Assign A	CH2 Level Meter LED	-24dB
	: THRU		-18dB
	: Assign B		-12dB
CH FADER Assign CH3	: Assign A	CH3 Level Meter LED	-24dB
	: THRU		-18dB
	: Assign B		-12dB
CH FADER Assign CH4	: Assign A	CH4 Level Meter LED	-24dB
	: THRU		-18dB
	: Assign B		-12dB
MIC	: OFF	CH1 Level Meter LED	0dB
	: ON		-3dB
	: TALK OVER		-6dB
HEAD PHONES	: MONO SPLIT	CH2 Level Meter LED	-6dB
	: STEREO		-9dB
SND/RTN RETURN IN	: 1/4"TS JACK	Mater Level Meter Lch LED	15dB
	: USB	Mater Level Meter	CLIP
SND/RTN TYPE	: AUX	Mater Level Meter Lch LED	12dB
	: INSERT		9dB
EQ CURVE	: ISOLATOR	CH2 Level Meter LED	0dB
	: EQ		-3dB
CH FADER CURVE	: Left	CH3 Level Meter LED	0dB
	: MID		-3dB
	: Right		-6dB
CROSS FADER CURVE	: Left	CH4 Level Meter LED	0dB
	: MID		-3dB
	: Right		-6dB
Channel Select SW	: CF.B	Mater Level Meter Lch LED	-24dB
	: CF.A		-15dB
	: MIC		-9dB
	: 1		-6dB
	: 2		-3dB
	: 3		0dB
	: 4		3dB
	: MASTER		6dB
Effect Select SW * SW left is assumed 1 and right is assumed 11.	: 1	Mater Level Meter Rch LED	-24dB
	: 2		-15dB
	: 3		-9dB
	: 4		-6dB
	: 5		-3dB
	: 6		0dB
	: 7		3dB
	: 8		6dB
	: 9		9dB
	: 10		12dB
	:11		15dB

TIME knob
Operation range Initial value : 0
Maximum value : 100
Minimum value : -100

Minimum value

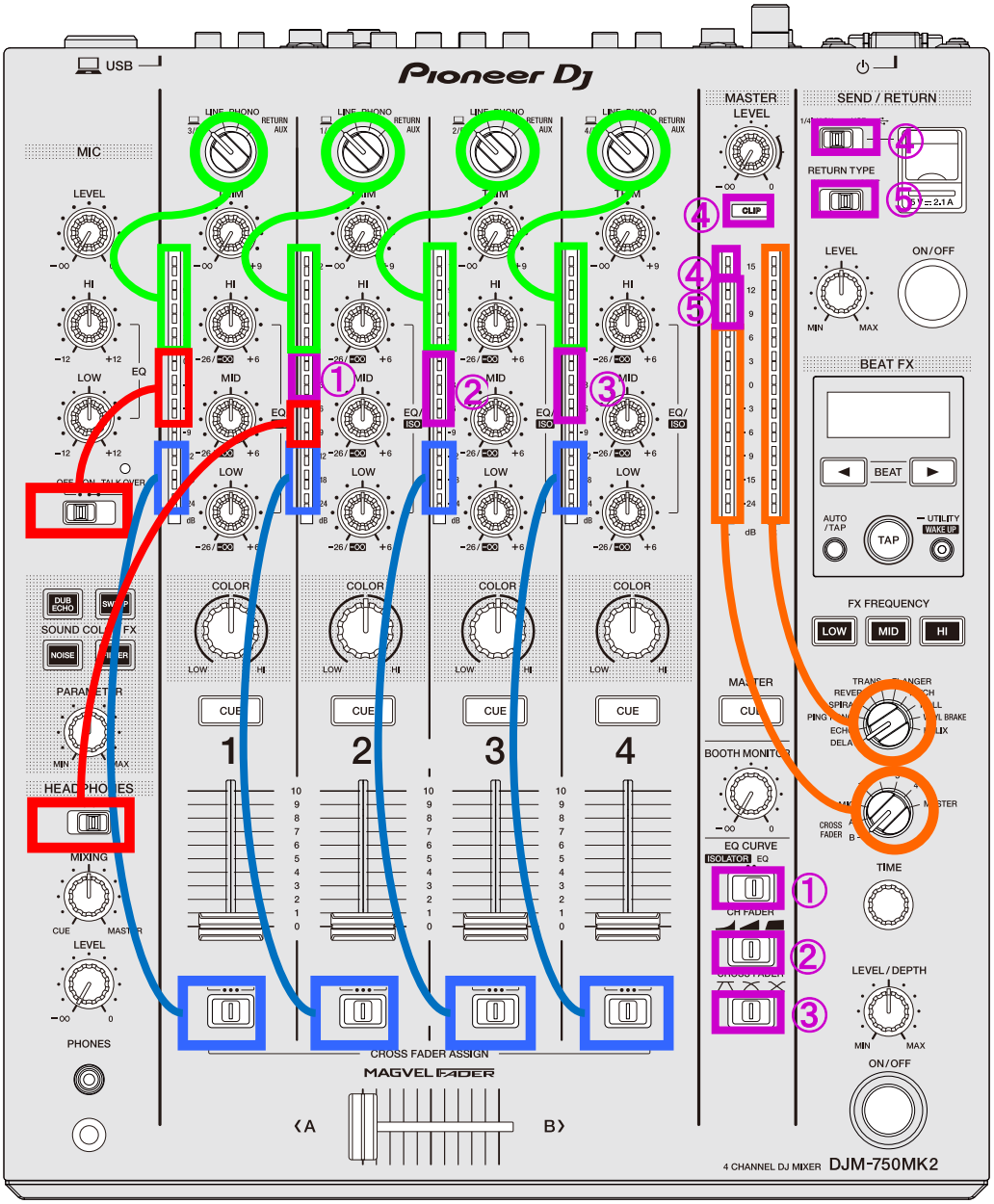
Counterclockwise

Initial value

Clockwise

Maximum value

Correlation diagram of the operation switch and lighting LED



Test mode 7 Volume confirmation mode

Outline

Confirm the A/D converted value of the rotary volume depending on Level Meter LED and lighting in the display.

Operation

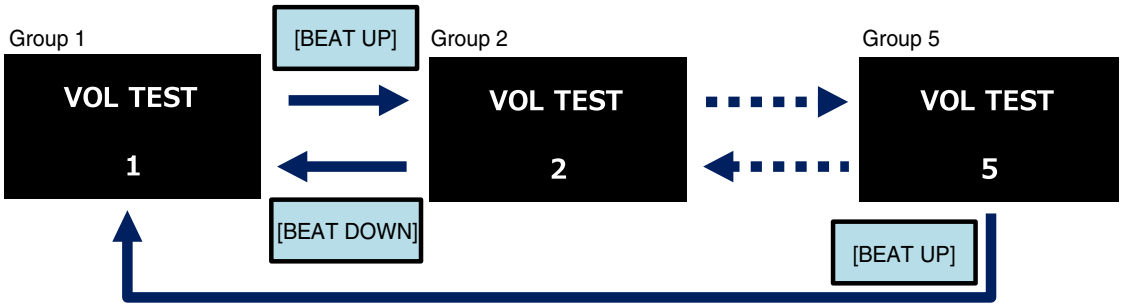
Confirmed each volume : Refer to the following table.
[BEAT UP], [BEAT DOWN] : Group change
[TAP] (lighting) : Mode change (to next mode)

Display mode title

VOL TEST

Operation details

Divide each rotary volume into 5 groups and switch using [BEAT UP], [BEAT DOWN].



Group 1

Operation volume	Lighting LED/Display	Lighting range	
CH1 TRIM	CH1 Level Meter LED	"- ∞ ": Lights off	"+9": Full Illuminate
CH2 TRIM	CH2 Level Meter LED	"- ∞ ": Lights off	"+9": Full Illuminate
CH3 TRIM	CH3 Level Meter LED	"- ∞ ": Lights off	"+9": Full Illuminate
CH4 TRIM	CH4 Level Meter LED	"- ∞ ": Lights off	"+9": Full Illuminate
MIC HI	Master Level Meter Lch LED	"-12": Lights off	"+12": Full Illuminate
MIC LOW	Master Level Meter Rch LED	"-12": Lights off	"+12": Full Illuminate

Group 2

Operation volume	Lighting LED/Display	Lighting range	
CH1 HI	CH1 Level Meter LED	"-26/- ∞ ": Lights off	"+6": Full Illuminate
CH2 HI	CH2 Level Meter LED	"-26/- ∞ ": Lights off	"+6": Full Illuminate
CH3 HI	CH3 Level Meter LED	"-26/- ∞ ": Lights off	"+6": Full Illuminate
CH4 HI	CH4 Level Meter LED	"-26/- ∞ ": Lights off	"+6": Full Illuminate
CFX PARAMETER	Master Level Meter Lch LED	"MIN": Lights off	"MAX": Full Illuminate
HEAD PHONES MIXING	Master Level Meter Rch LED	"CUE": Lights off	"MASTER": Full Illuminate

Group 3

Operation volume	Lighting LED/Display	Lighting range	
CH1 MID	CH1 Level Meter LED	"-26/- ∞ ": Lights off	"+6": Full Illuminate
CH2 MID	CH2 Level Meter LED	"-26/- ∞ ": Lights off	"+6": Full Illuminate
CH3 MID	CH3 Level Meter LED	"-26/- ∞ ": Lights off	"+6": Full Illuminate
CH4 MID	CH4 Level Meter LED	"-26/- ∞ ": Lights off	"+6": Full Illuminate
HEAD PHONES LEVEL	Master Level Meter Lch LED	"- ∞ ": Lights off	"0": Full Illuminate
EFFECT LEVEL/DEPTH	Master Level Meter Rch LED	"MIN": Lights off	"MAX": Full Illuminate

Group 4

Operation volume	Lighting LED/Display	Lighting range	
CH1 LOW	CH1 Level Meter LED	"-26/- ∞ ": Lights off	"+6": Full Illuminate
CH2 LOW	CH2 Level Meter LED	"-26/- ∞ ": Lights off	"+6": Full Illuminate
CH3 LOW	CH3 Level Meter LED	"-26/- ∞ ": Lights off	"+6": Full Illuminate
CH4 LOW	CH4 Level Meter LED	"-26/- ∞ ": Lights off	"+6": Full Illuminate
MASTER LEVEL	Master Level Meter Lch LED	"- ∞ ": Lights off	"0": Full Illuminate
BOOTH MONITOR	Master Level Meter Rch LED	"- ∞ ": Lights off	"0": Full Illuminate

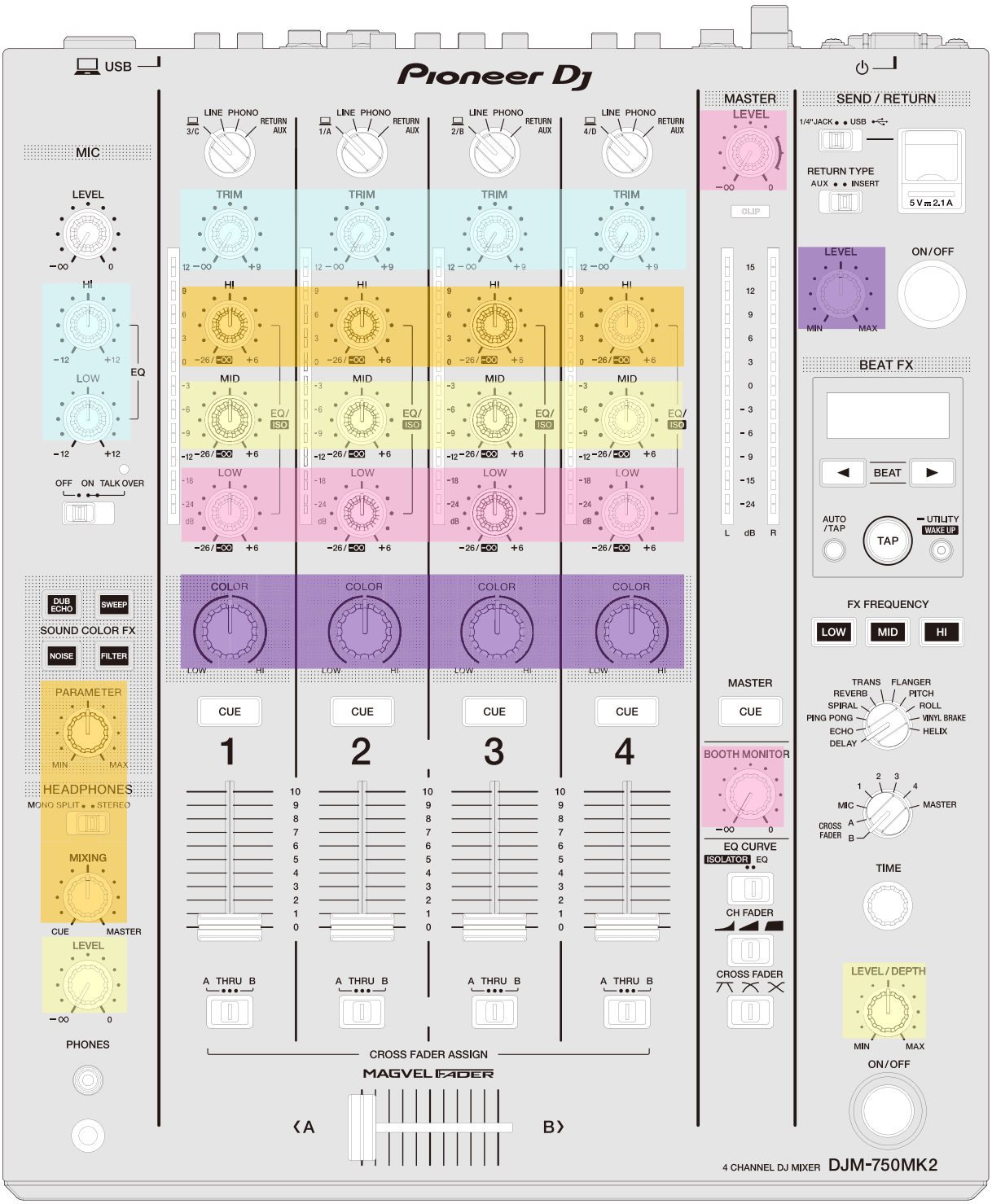
Group 5

Operation volume	Lighting LED/Display	Lighting range	
CH1 COLOR	CH1 Level Meter LED	"LOW": Lights off	"HI": Full Illuminate
CH2 COLOR	CH2 Level Meter LED	"LOW": Lights off	"HI": Full Illuminate
CH3 COLOR	CH3 Level Meter LED	"LOW": Lights off	"HI": Full Illuminate
CH4 COLOR	CH4 Level Meter LED	"LOW": Lights off	"HI": Full Illuminate
SND/RTN LEVEL	Master Level Meter Lch LED	"MIN": Lights off	"MAX": Full Illuminate

* Refer to the next page for grouping details

Grouping details

: Group 1
: Group 2
: Group 3
: Group 4
: Group 5



Test mode 8 Fader confirmation mode

Outline

Confirm the values of CH1 to CH4 fader and cross fader depending on the meter LED.

Display mode title

FDR TEST

Operation

Confirmed each fader : Refer to the following table.
[TAP] : Mode change (to next mode)

Operation details

Operation fader	Lighting LED	Lighting range	
CH1 FADER	CH1 Level Meter LED	"0": Lights off	"10": Full Illuminate
CH2 FADER	CH2 Level Meter LED	"0": Lights off	"10": Full Illuminate
CH3 FADER	CH3 Level Meter LED	"0": Lights off	"10": Full Illuminate
CH4 FADER	CH4 Level Meter LED	"0": Lights off	"10": Full Illuminate
CROSS FADER	Master Level Meter Lch LED	"A": Lights off	"B": Full Illuminate

Note

For CROSS FADER, reflect to the LED on the basis of both end A/D values saved in the "mode 2 Cross fader setting mode." If they are not saved, use the A/D immediate data.

Test mode 9 Level meter LED confirmation mode

Outline

Confirm the lighting of the level meter LED.

Display mode title

LED TEST

Operation

[CH1 CUE], [CH2 CUE], [CH3 CUE], [CH4 CUE],
[MASTER CUE], [FREQUENCY LOW](lighting) : Level meter lighting (Refer to the following table.)
[TAP] : Mode change (to next mode)

Operation details

When each button is pressed, corresponding level meter LEDs begin lighting from the bottom one by one (Master Rch level meter contains CLIP LED).
Initial value is all light-off.
After CH1, CH2, CH3, CH4 and MASTER is pressed 11 times, or after FREQUENCY LOW is depressed 12 times, (In the condition that CLIP LED is lighting), if it is depressed again, entire light-off condition comes back again.

Operation button	Lighting meter
CH1 CUE	CH1 Level Meter
CH2 CUE	CH2 Level Meter
CH3 CUE	CH3 Level Meter
CH4 CUE	CH4 Level Meter
MASTER CUE	Master Level Meter Lch LED
FREQUENCY LOW	Master Level Meter Rch LED/CLIP LED

Test mode 10 Volume A/D value confirmation mode

Outline
This mode is for design development. It is not used in service.

Display mode title
VOL AD

Test mode 11 Fader A/D value confirmation mode

Outline
This mode is for design development. It is not used in service.

Display mode title
FDR AD

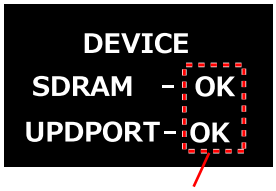
Test mode 12 Device confirmation mode

Outline
Confirm the conditions of SDRAM and ports for update.

Display mode title
DEVICE

Operation
[TAP] : Mode change (to next mode)

Operation details
If CHECK is displayed, as check is still being conducted, wait until OK/NG is displayed, then conduct the confirmation.
If test result of the update port is NG, following LED indicates which port is abnormal.



Display the check result

Device	Display		
	Title	Description	
DSP SDRAM	SDRAM	CHK	During checking
		OK	Normal
		NG	Abnormal
UPDATE PORT	UPDPORT	CHK	During checking
		OK	Normal
		NG	Abnormal

Port name	NG display LED
PNL_MODE	CH1 Level Meter -24dB LED
A-PNL_MOSI	CH1 Level Meter -18dB LED
A-PNL_MISO	CH1 Level Meter -12dB LED
A-PNL_CLK	CH1 Level Meter -9dB LED
A-PNL_CTRL	CH1 Level Meter -6dB LED
A-PNL_INT	CH1 Level Meter -3dB LED

Test mode 13 OLED luminance confirmation mode

Outline

Confirm the lighting state at the maximum luminance of the OLED

Display mode title

OLED TEST

Operation

[TAP] : Mode change (to next mode)

Operation details

After displaying the following screen for 1 second, lighting it with luminance MAX.
If there is an indication the OLED is dark, please confirm the lighting condition at maximum luminance in this mode and use it for discrimination whether it is really dark or not. Please also use it to check dot missing etc.

6.2 ABOUT THE DEVICE

Device Information List

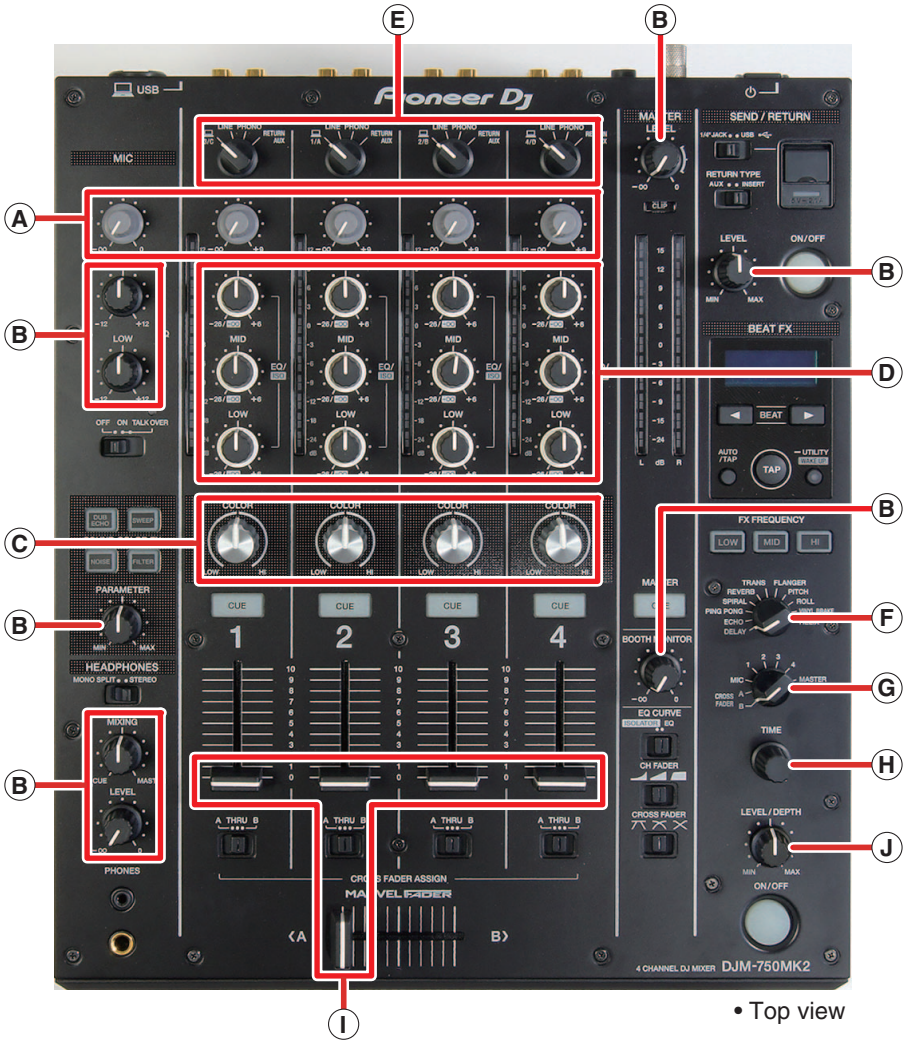
Device name	Function	Part No.	Reference No.	ASSY
USBB UCOM	USBB control	R5S72690RW266FP	IC2001	MAIN ASSY
FLASH	ROM for USBB UCOM	DYW**** *1	IC2003	MAIN ASSY
USBA UCOM	USBA control	R5S72690RW266FP	IC2501	MAIN ASSY
DSP	Audio DSP	D810K013DZKB400	IC3001	MAIN ASSY
DSP SDRAM	RAM for DSP (Work)	A3V28S40JTP-60	IC3003	MAIN ASSY
PANEL UCOM	Main, LED, OLED, KEY and VR control	DYW**** *1	IC7001	PNLA ASSY

*1 : [****] of DYW**** changes each time the firmware is updated.

7. DISASSEMBLY

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

[1] Knob Locations



Note: The shipment position of each knob follows the upper photo.

[2] Disassembly

[2-1] Diagnosis

[2-1-1] Control Panel Section

① Remove the five screws. (BBZ30P060FTB)

Note on assembling

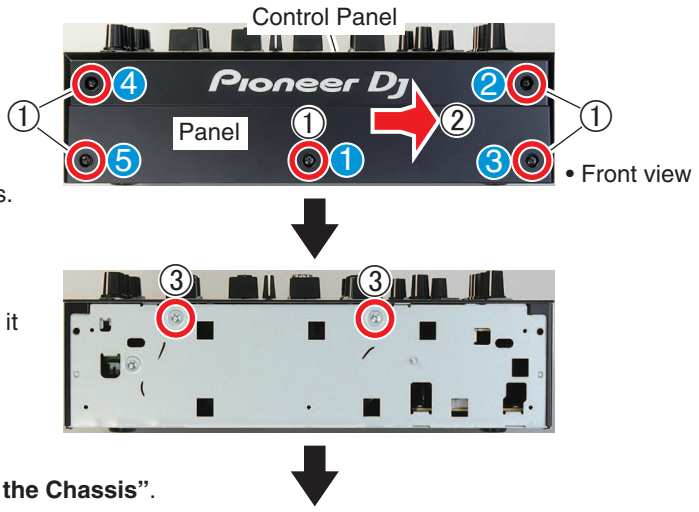
∗1: Attach the screws in the order as shown by blue numbers. Take care so that either right or left side of the Panel (DNK6689) doesn't protrudes over the edge (right or left) of the Control Panel.

② Slide the Panel (DNK6689) to the right, and then remove it toward the near side.

③ Remove the two screws (BBZ30P060FTC) and two Washers (WB30FTC).

Note on assembling

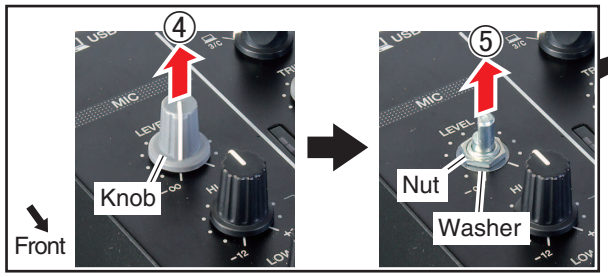
∗2: Refer to the "**[3-3] Attach the Control Panel Section to the Chassis**".



④ Remove the Knob. (DAA1381)

Note: They are easily removed with a dessert spoon.

⑤ Remove the nut (Accessory of VR) and Washer (DEC3731).



Note: Make sure that nut has been removed. PCB may be damaged if it is disassembled before removing the nut.

⑥ Remove the 12 screws. (DBA1451)

Notes on assembling

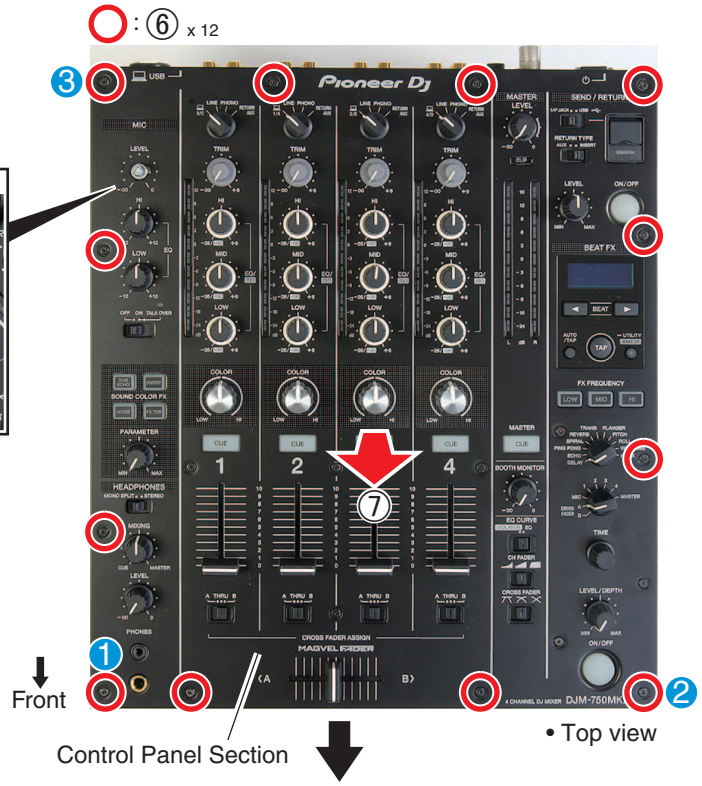
∗3: Attach first three screws in the order as shown by blue numbers.

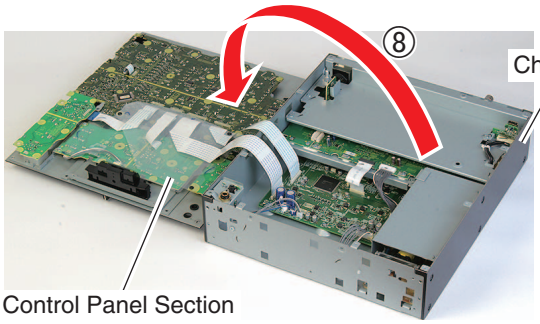
∗4: Before the attachment of remaining nine screws, attach the two screws removed in step ③. Remaining nine screws can be attached in any order.

⑦ Remove the Control Panel Section.

Note: Pay attention for the two FFCs connected.

⑧ Arrange the Control Panel Section as shown in the photo.





[2-1-2] Shield Plate (DNF2023)

Remove the Control Panel Section.
(Refer to the "**[2-1-1] Control Panel Section**")

---

① Remove the two screws. (BBZ30P060FTB)

② Remove the two screws. (BBZ30P060FTC)

Note on assembling

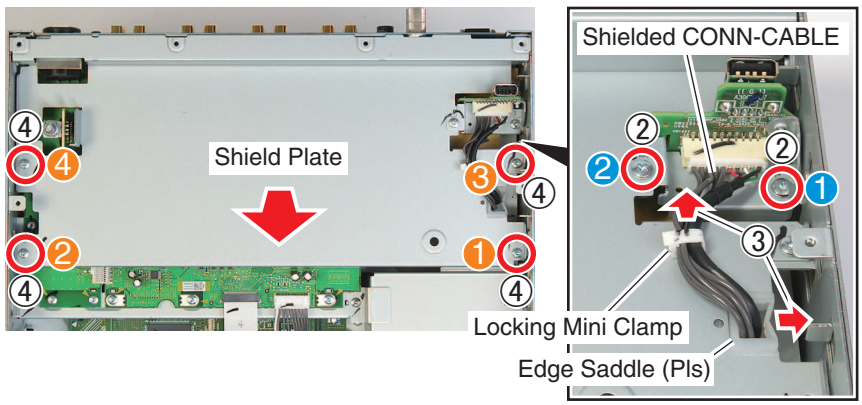
∗5: Attach the screws in the order as shown by blue numbers.

③ Release the Shielded CONN-CABLE from the Locking Mini Clamp and Edge Saddle (Pls).

④ Remove the four screws (BBZ30P060FTC) and then remove the Shield Plate (DNF2023).

Note on assembling

∗6: Attach the screws in the order as shown by orange numbers.



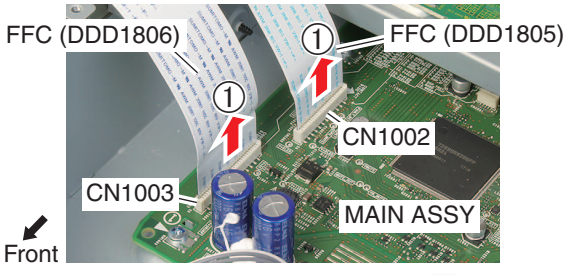
Diagnosis

[2-1-3] Diagnosis of PNLA ASSY (side-B)

Remove the Control Panel Section.
(Refer to the "**[2-1-1] Control Panel Section**")

---

① Disconnect the two connectors.

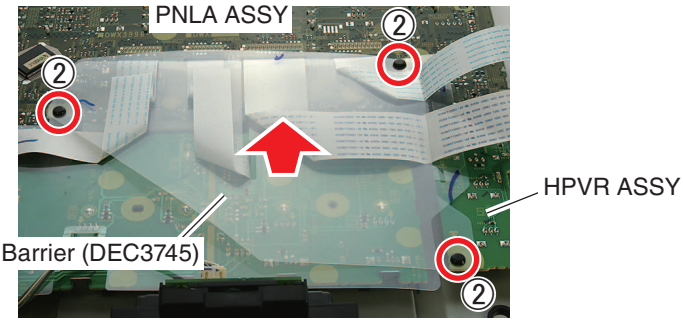


② Remove the three Rivet (Plastic)s and then remove the Barrier (DEC3745).

③ Remove one Rivet (Plastic) and two screws (BBZ30P060FTC).

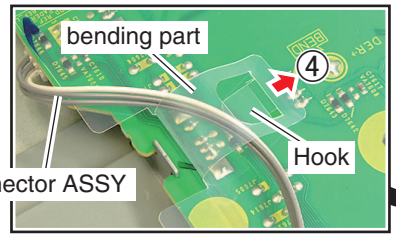
④ Release the hook at the bend of the Barrier (DEC3735), and then release the Connector ASSY (PF03PP-B12) from the Barrier (DEC3735).

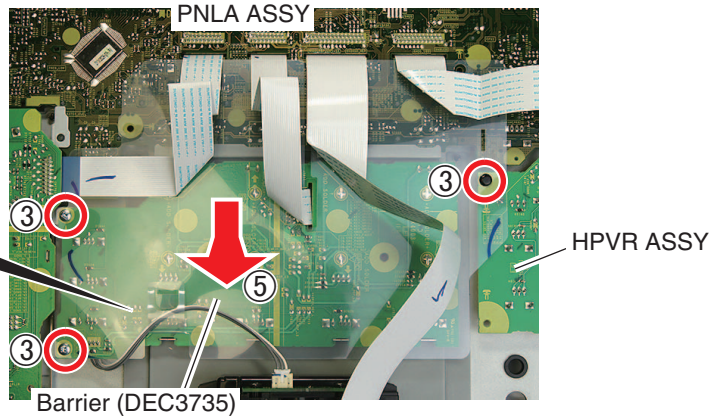
⑤ Remove the Barrier (DEC3735).



Note on assembling

∗7: Lay the four FFCs over the Barrier (DEC3735).





⑥ Connect the two connectors disconnected in step ①.

Diagnosis

[2-2] Chassis Section

Remove the Control Panel Section and Shield Plate (DNF2023).
(Refer to the "**[2-1] Diagnosis**")

[2-2-1] MTRM ASSY, MICB ASSY, AINB ASSY, MAIN ASSY

① Remove the six nuts (NKX2FTC) and six washers (DEC2920).

② Remove the six screws. (PPZ30P080FTB)

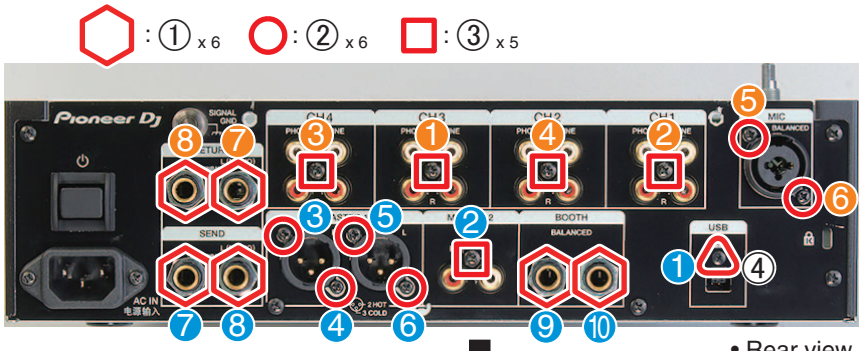
③ Remove the five screws. (BPZ30P080FTB)

④ Remove the Screw (M3x5). (DBA1340)

Note: When MAIN ASSY is not removed, screws, nuts and washers of blue numbers need not to be removed.

Note on assembling

∗8: Attach the screws, nuts and washers in the order as shown by blue and orange numbers.



⑤ Disconnect the connector and then Remove the MTRM ASSY.

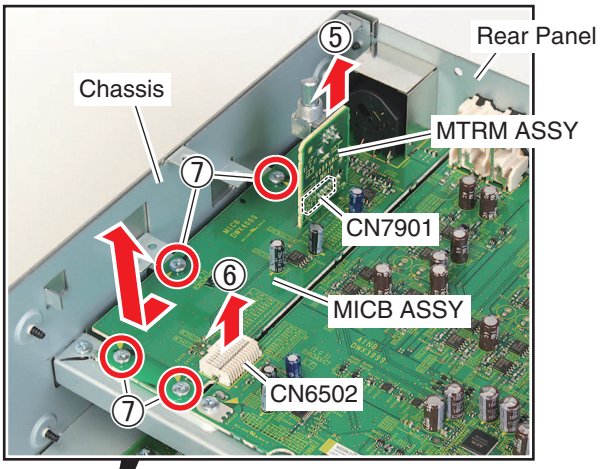
⑥ Disconnect the connector.

⑦ Remove the four screws (BBZ30P060FTC), and then remove the MICB ASSY while drawing the MIC terminal from the Rear Panel.

Note: If the removal of the PCB alone is not necessary, it can be removed together with the Stay (DNF2024). In that case, remove two screws on the Chassis side. (Refer to the step ⑩)

Note on assembling

∗9: Before the attachment of the screws in step ⑦, attach the screws on the Rear Panel side.



⑧ Disconnect the two connectors. (CN5001 and CN5002 on the AINB ASSY, or CN1004 and CN1005 on the MAIN ASSY.)

⑨ Remove the three screws (BBZ30P060FTC), and then remove the AINB ASSY while drawing the terminals from the Rear Panel.

Note: If the removal of the PCB alone is not necessary, it can be removed together with the Stay (DNF2024). (Refer to the step ⑩)

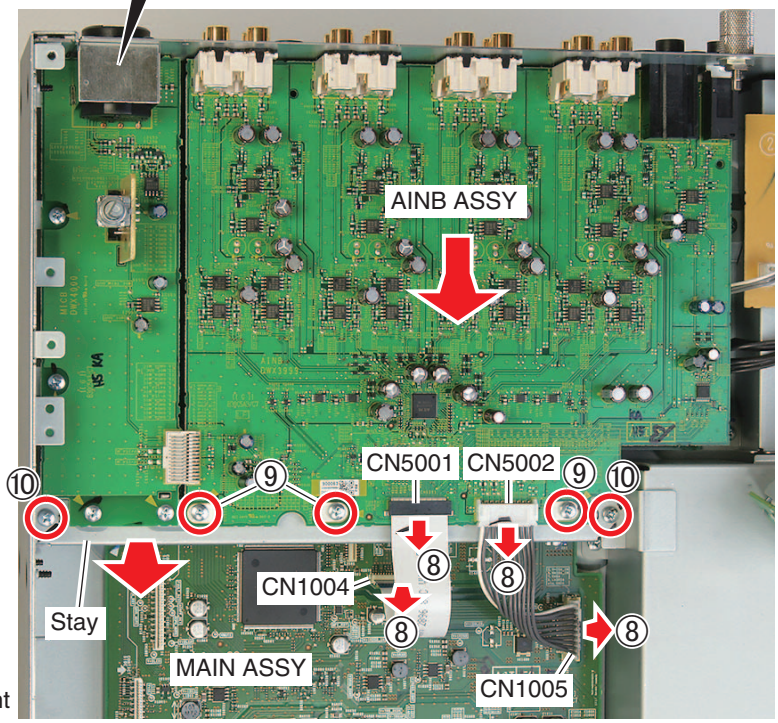
Note on assembling

∗10: Before the attachment of the screws in step ⑨, attach the screws on the Rear Panel side.

⑩ Remove the two screws (BBZ30P060FTC) and then remove the Stay (DNF2024).

Note on assembling

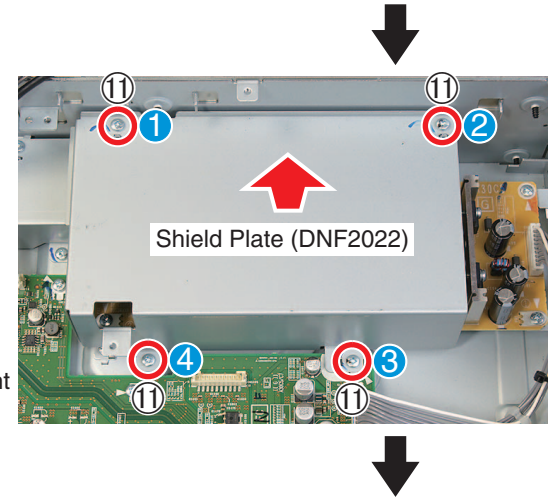
∗11: Attach the Shield Plate (DNF2023) before fixing the Stay with screws.
Arrange the Stay, AINB ASSY and MICB ASSY beforehand.
The screws on the Rear Panel sides of the AINB ASSY and MICB ASSY be attached before that.
(Refer to the **"[3-2] Shield Plate (DNF2023), Stay (DNF2024)"**)



⑪ Remove the four screws (BBZ30P060FTC), and then remove the Shield Plate (DNF2022).

Note on assembling

∗12: Attach the screws in the order as shown by blue numbers.



⑫ Disconnect the five connectors.

Note

∗13: CN1001 connector has a lock mechanism.

Note on assembling

∗14: Connect the Crimp Connector (PF03PP6B10) which is blue, to the blue connector (CN4601).

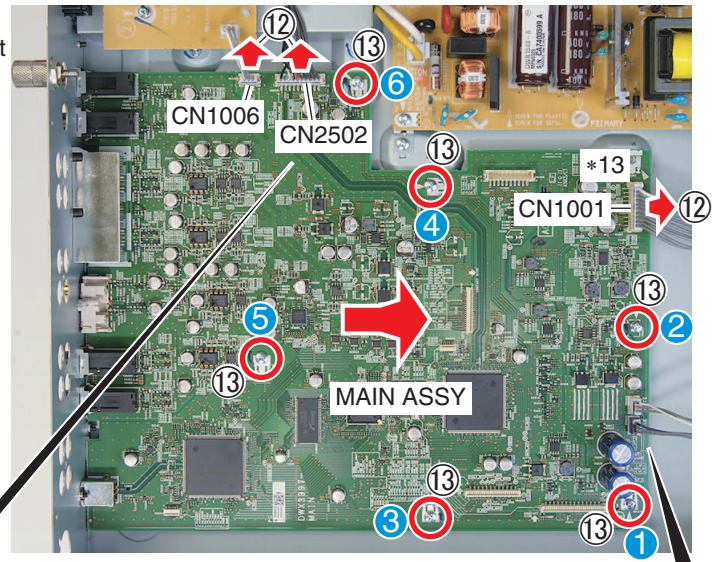
⑬ Remove the six screws (BBZ30P060FTC), and then remove the MAIN ASSY while drawing the terminals from the Rear Panel.

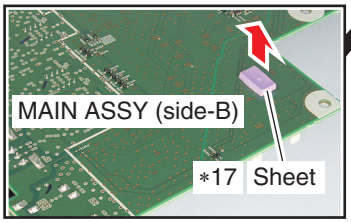
Notes on assembling

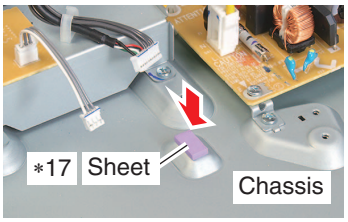
∗15: Before the attachment of the screws in step ⑬, attach the screws on the Rear Panel side.

∗16: Attach the screws in the order as shown by blue numbers.

∗17: If Sheet (DEC3621) is attached on the side-B of the MAIN ASSY, remove the Sheet and apply it onto the Chassis as shown in the photo.







[2-2-2] SW POWER SUPPLY

Remove the Shield Plate (DNF2022).
(Refer to the steps ① to ⑪ of **"[2-2-1] MTRM ASSY, MICB ASSY, AINB ASSY, MAIN ASSY"**)

---

① Disconnect the two connectors.

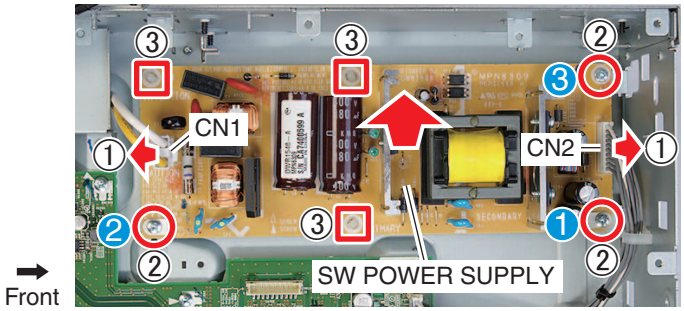
Note: Each connector has a lock mechanism.

② Remove the three screws. (BBZ30P060FTC)

Note on assembling

∗18: Attach the screws in the order as shown by blue numbers.

③ Release the tips of three Spacers (AEC1065), and then remove the SW POWER SUPPLY.



[2-2-3] PWSB ASSY

Remove the Shield Plate (DNF2023).
(Refer to the **"[2-1-2] Shield Plate (DNF2023)"**)

---

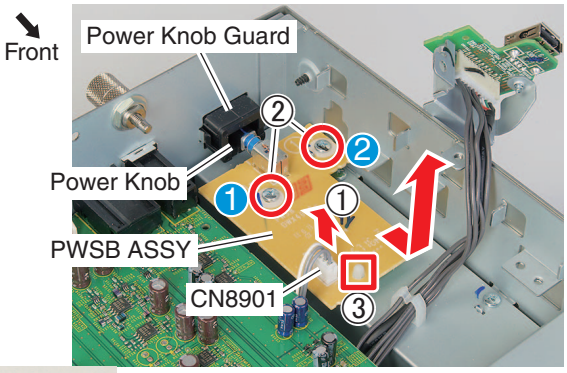
① Disconnect the connector.
② Remove the two screws. (BBZ30P060FTC)

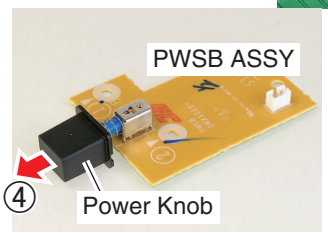
Note on assembling

∗19: Attach the screws in the order as shown by blue numbers.

③ Release the tip of the PCB Holder (PNW1706), and then remove the PWSB ASSY while drawing the Power Knob from the Power Knob Guard.

④ Remove the Power Knob.





[2-2-4] HPJK ASSY, HPJM ASSY

Remove the Control Panel Section.
(Refer to the **"[2-1-1] Control Panel Section"**)

---

① Remove the screw. (BBZ30P060FTC)

Note on assembling

*20: Before the attachment of the screws in step ①, attach the screws to the Control Pane Section.

② Lift the Stay (DNF2027) (with the PCB etc.) slightly to release the two hooks, and then remove the Stay.

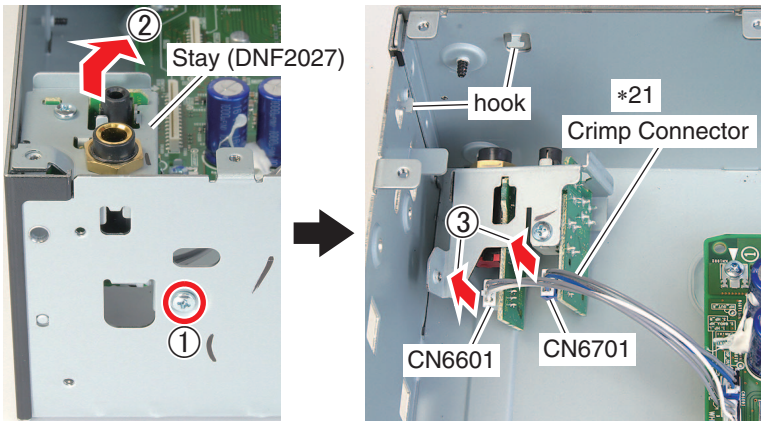
③ Disconnect the two connectors.

Note on assembling

*21: Connect the Crimp Connector (PF03PP6B10) which is blue, to the blue connector (CN6701).

④ Release the Nut M12 (DBN1018) and then remove the HPJK ASSY.

⑤ Remove the two screws (BBZ30P060FTC) and then remove the HPJM ASSY.



[2-2-5] USBA ASSY

Remove the Control Panel Section.
(Refer to the **"[2-1-1] Control Panel Section"**)

---

① Remove the two screws. (BBZ30P060FTC)

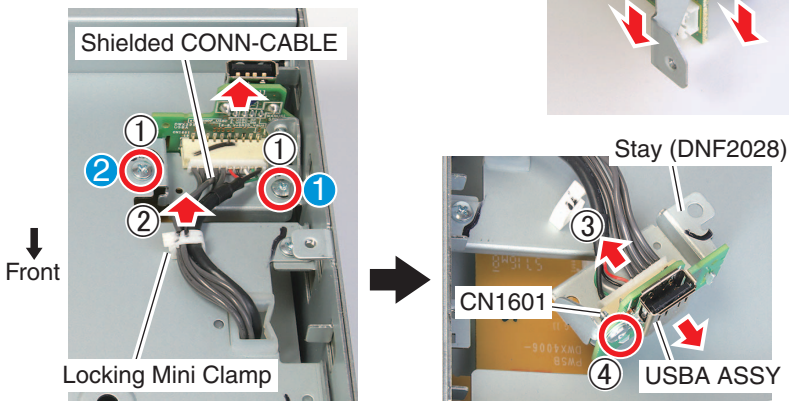
Note on assembling

*22: Attach the screws in the order as shown by blue numbers.

② Release the Shielded CONN-CABLE from the Locking Mini Clamp.

③ Disconnect the connector.

④ Remove the screw (BBZ30P060FTC) and then remove the USBA ASSY.



[2-3] Control Panel Section

Remove the Control Panel Section and Barriers (DEC3745, DEC3735). (Refer to the **"[2-1] Diagnosis"**)

[2-3-1] CHFD ASSY, BFXB ASSY, HPVR ASSY

① Remove the three Knobs. (DAA1382)

Note: They are easily removed with a dessert spoon.

② Remove the three nuts (Accessory of VR) and two washers (DEC3731) .

③ Remove the four Knobs.

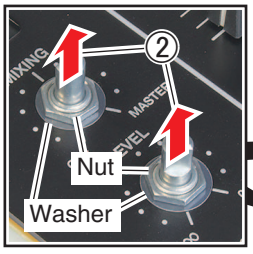
④ Remove the five Slider Knobs.

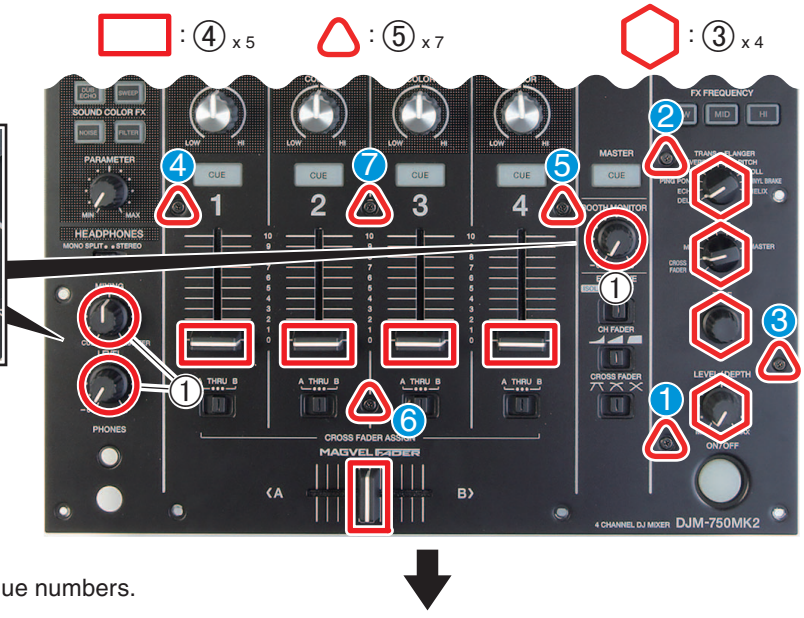
Note: Each Slider Knob has a lock mechanism. (Refer to the next page)

⑤ Remove the seven screws. (DBA1451)

Note on assembling

*23: Attach the screws in the order as shown by blue numbers.





Disassembly / Assembly of the Slider Knob

① Push up the lower edge of the Slider Knob 2 with tweezers and then remove the Slider Knob 2.

Note

∗24: Push up of the Slider Knob 2 is only possible from one side.

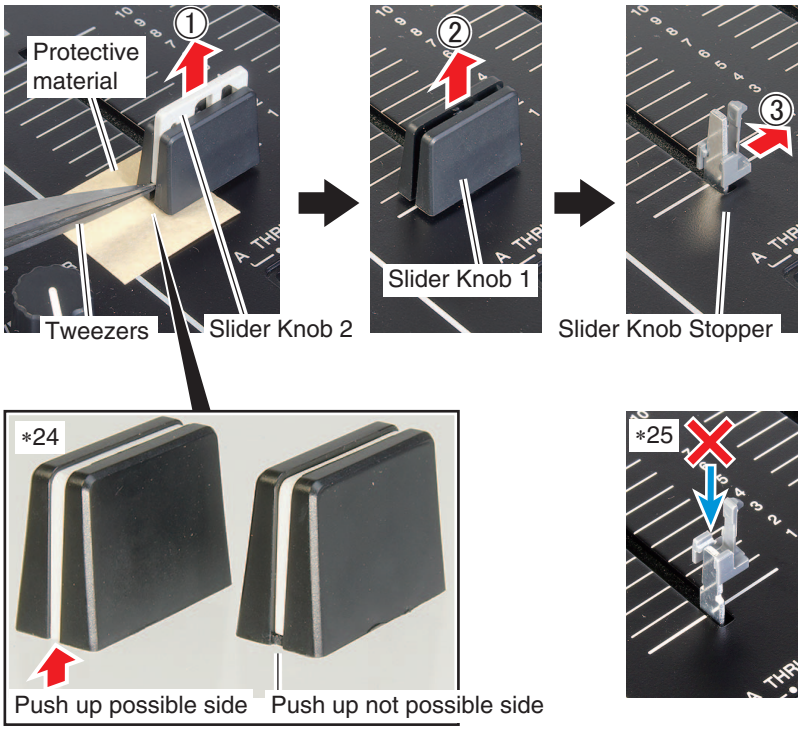
② Remove the Slider Knob 1 upward.

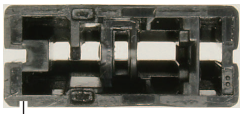
③ Remove the Slider Knob Stopper horizontally.

Notes on assembling

∗25: Don't insert the Slider Knob Stopper from above.

∗26: Pay attention to the direction of each Slider Knob.

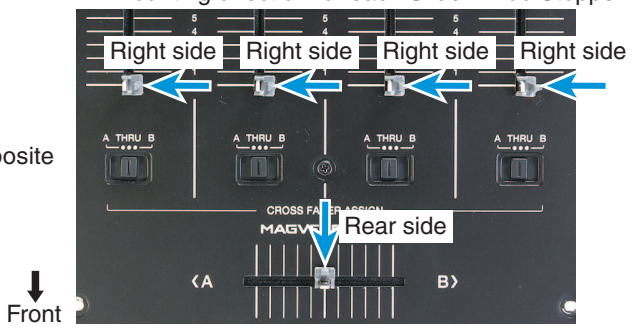




Bottom side of the Slider Knob 1

Direct the concave side toward the opposite side from the Slider Knob Stopper.

∗26 Mounting direction for each Slider Knob Stopper.



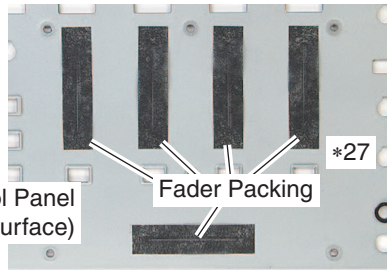
[2-3-1] CHFD ASSY, BFXB ASSY, HPVR ASSY (continuation)

⑥ Remove the Stay (DNF2025) (with the PCB etc.) from the bottom side of the Control Panel Section, and reverse it.

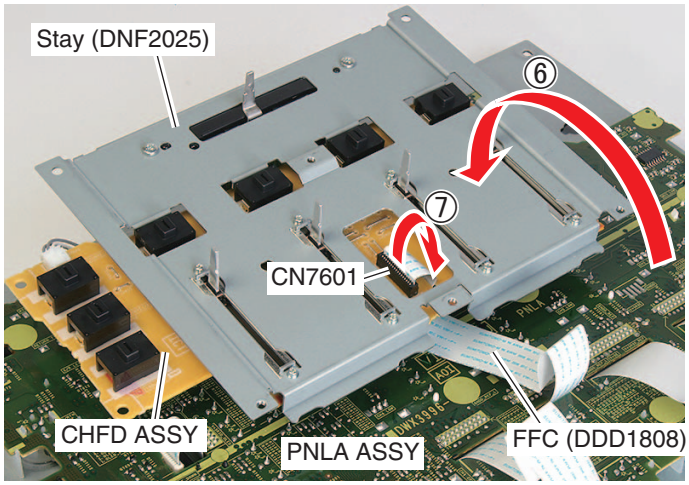
Note: Pay attention for the FFC connected.

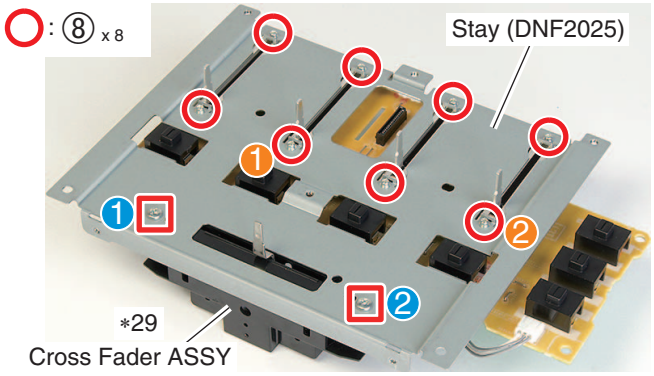
Note on assembling

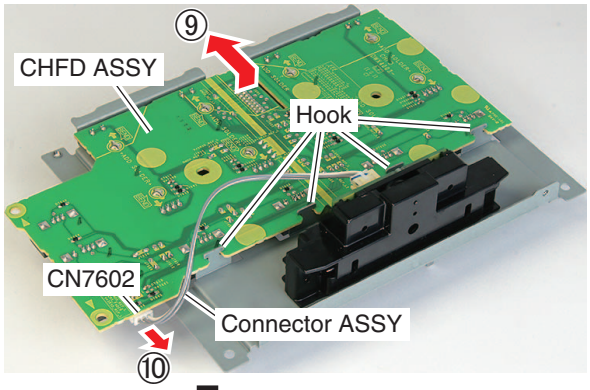
∗27: If Fader Packings on the back surface of the Control Panel is damaged, replace it with new ones.



⑦ Disconnect the connector, and remove the FFC (DDD1808) by drawing it out from the slit of the CHFD ASSY.







⑧ Remove the eight screws. (PMH20P040FTC)

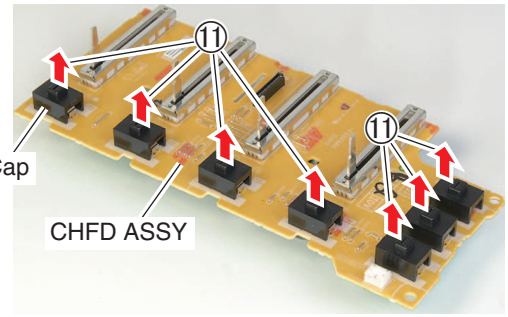
Notes on assembling

*28: Attach first two screws in the order as shown by orange numbers. Remaining six screws can be attached in any order.

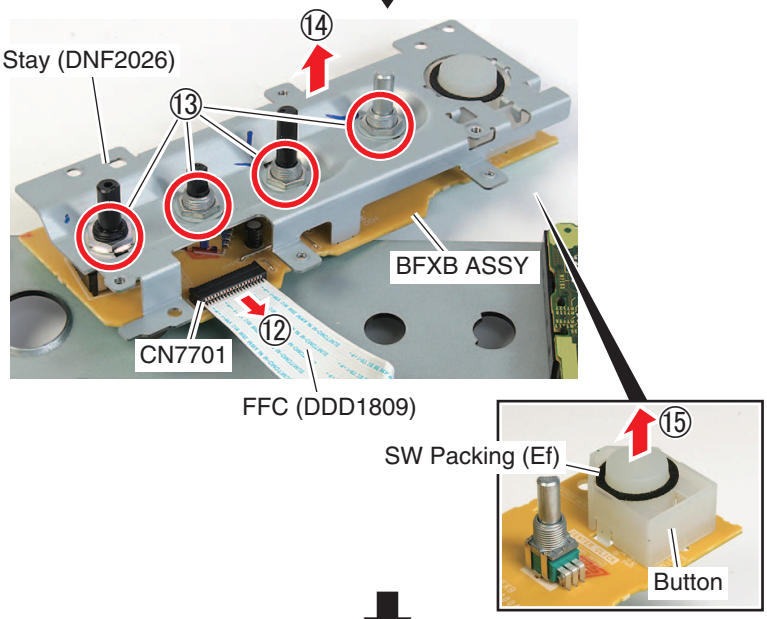
*29: When the Cross Fader ASSY was removed, attach the two screws (BPZ30P080FTC) in the order as shown by blue numbers.

⑨ Lift the rear side of CHFD ASSY slightly and sliding it toward the same side, and then remove the CHFD ASSY by release the four hooks from the Stay (DNF2026).

⑩ Disconnect the connector.



⑪ Remove the seven Caps.

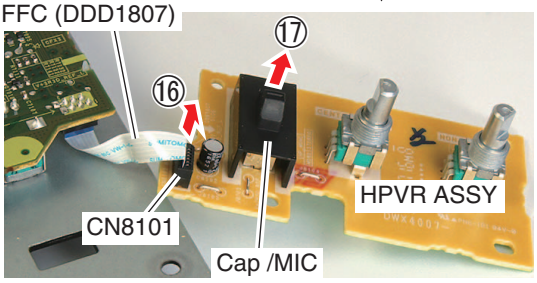


⑫ Disconnect the connector.

⑬ Remove the four nuts (Accessory of VR) and four washers (Accessory of VR).

⑭ Remove the Stay (DNF2026) from the BFXB ASSY.

⑮ Remove the Button (DAC3141) and SW Packing (Ef).

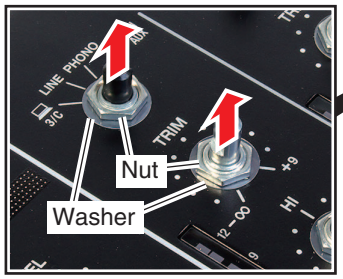


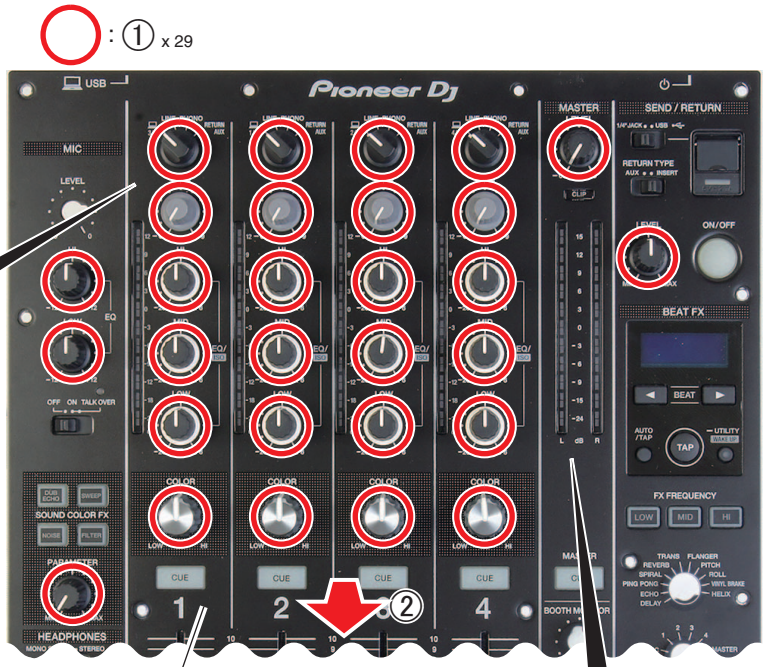
⑯ Disconnect the connector.

⑰ Remove the Cap /MIC from the HPVR ASSY.

[2-3-2] PNLA ASSY, OLED ASSY

Remove the CHFD ASSY, BFXB ASSY and HPVR ASSY from the Control Panel Section. (Refer to the **"[2-3-1] CHFD ASSY, BFXB ASSY, HPVR ASSY"**)



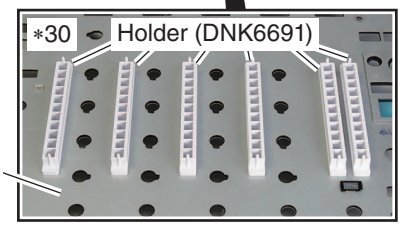


① Remove all the remaining Knobs, nuts (Accessory of VR) and Washers (DEC3731), 29 respectively, from the Control Panel Section.

② Remove the Control Panel.

Note on assembling

*30: When assembling, transfer the six Holders (DNK6691) to the PNLA ASSY.



③ Remove the nine Buttons.

④ Release the two hooks and disconnect the connector, and then remove the OLED ASSY (DEA1065).

⑤ Release the two hooks and then remove the Escutcheon Service ASSY (with the Lid).

⑥ Disconnect the connector.

⑦ Disconnect the four connectors and then remove the four FFCs by drawing it from the slit of the PNLA ASSY.

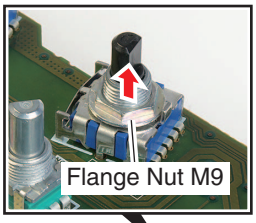
⑧ Remove the three Cap /MICs.

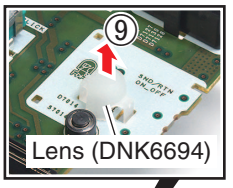
⑨ Remove the Holder /LED (DNK5973), Holder (DNK6692) and Lens (DNK6694) by releasing the two hooks respectively.

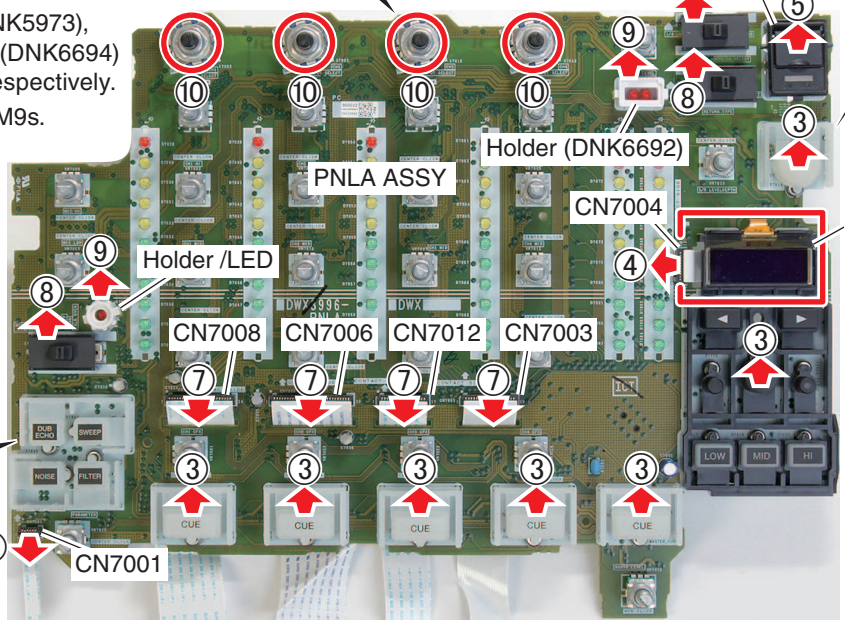
⑩ Remove the four Flange Nut M9s.

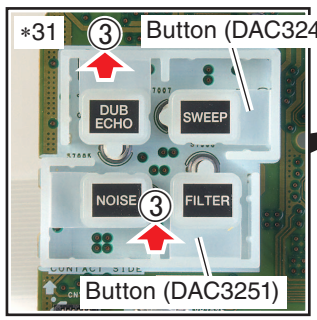
Note on assembling

*31: Make sure not to invert the mounting locations for the Button (DAC3249 and DAC3251).





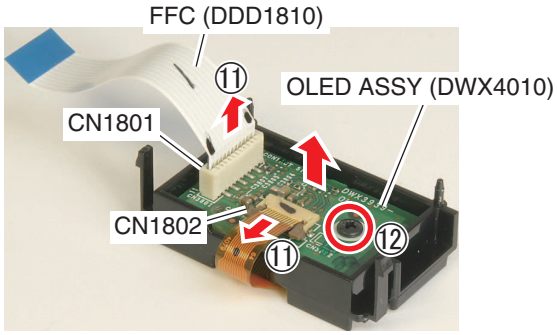




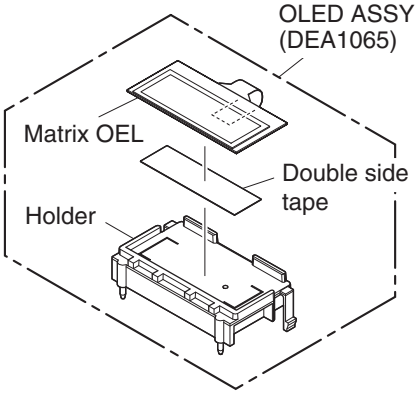
⑪ Disconnect the two connectors.

Note: CN1802 connector has a lock mechanism.

⑫ Remove the screw (BPZ20P040FTB) and then remove the OLED ASSY (DWX4010).



Note: For the replacement of Matrix OEL, OELD ASSY (DEA1065) cannot be further disassembled (because Matrix OEL is affixed with double side tape), so that the whole OLED ASSY (DEA1065) must be replaced.

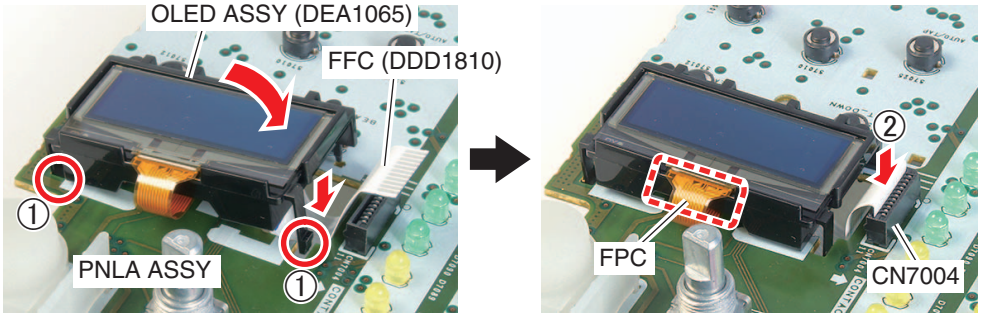


[3] Notes on Assembling

[3-1] OLED ASSY (DEA1065)

① Mount the two hooks of OLED ASSY (DEA1065) while leading the FFC (DDD1810) through the hole of PNLA ASSY.

② Connect the FFC (DDD1810) to the Connector while styling it as shown in the photo.



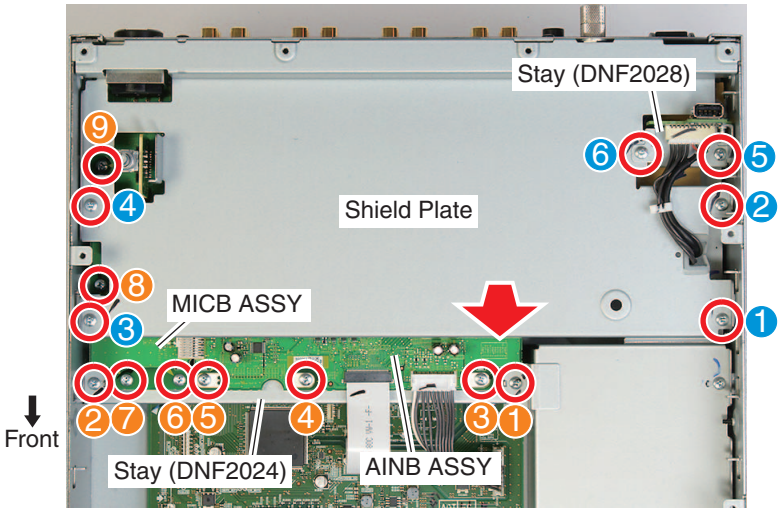
Note: Any loading on or bending of FPC in the area surrounded by broken line is strongly prohibited.

[3-2] Shield Plate (DNF2023), Stay (DNF2024)

In case the Stay (DNF2024) is removed and then reattached, Shield Plate (DNF2023) must be attached first in order to prevent the distortion of the Chassis.

① Screws (BBZ30P060FTC) used for the attachment of Shield Plate (DNF2023) and Stay (DNF2028) must be attached in the order as shown by blue numbers.

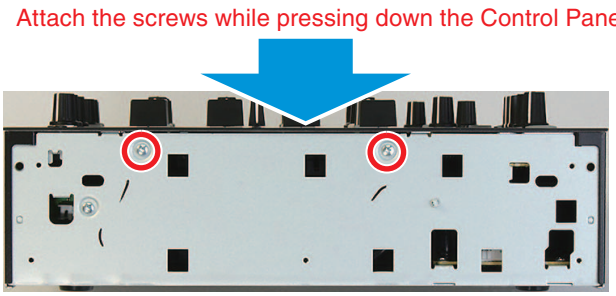
② Screws (BBZ30P060FTC) used for the attachment of Stay (DNF2024) and AINB ASSY, MICB ASSY must be attached in the order as shown by orange numbers.



Note: Before the attachment of the orange screws ③ to ⑨, attach the screws on the Rear Panel side.

[3-3] Attach the Control Panel Section to the Chassis

After first three screws (DBA1451) to attach the Control Panel, attach the two screws (BBZ30P060FTC) on the front side of the Chassis.
(Refer to the Notes for step ⑥ of **"[2-1-1] Control Panel Section"**)
In that case attach the scerws while pressing down the Control Panel from above.



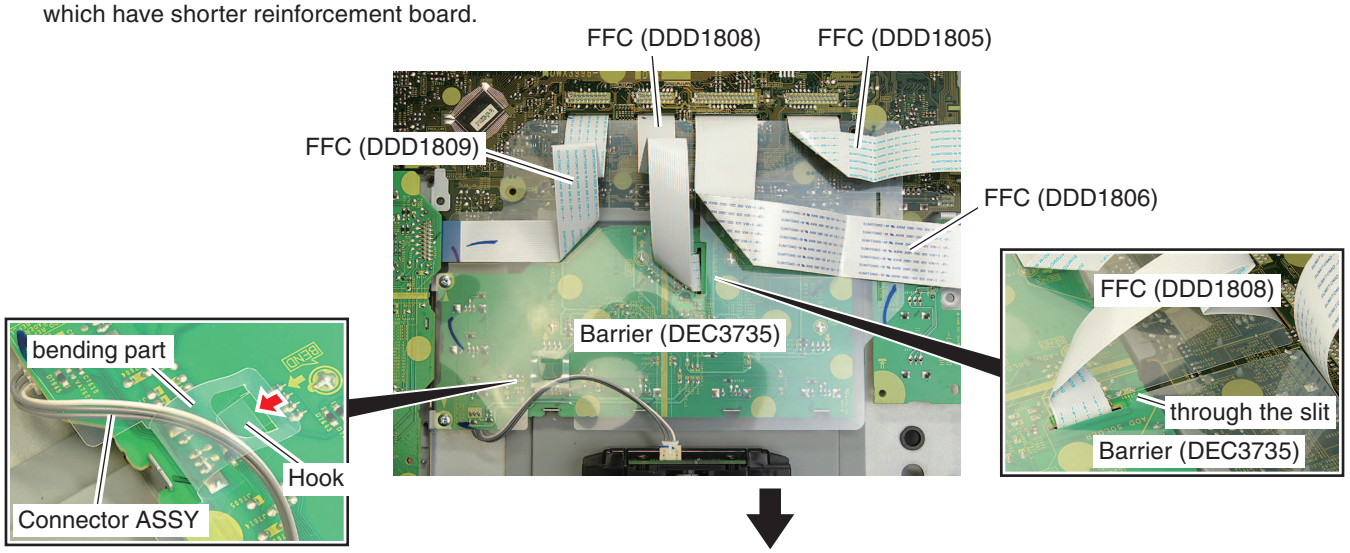
• Front view

After that, attach remaining nine screws (DAB1451, in any order) for the attachment of the Control Panel.

[3-4] Styling of the FFCs and cables

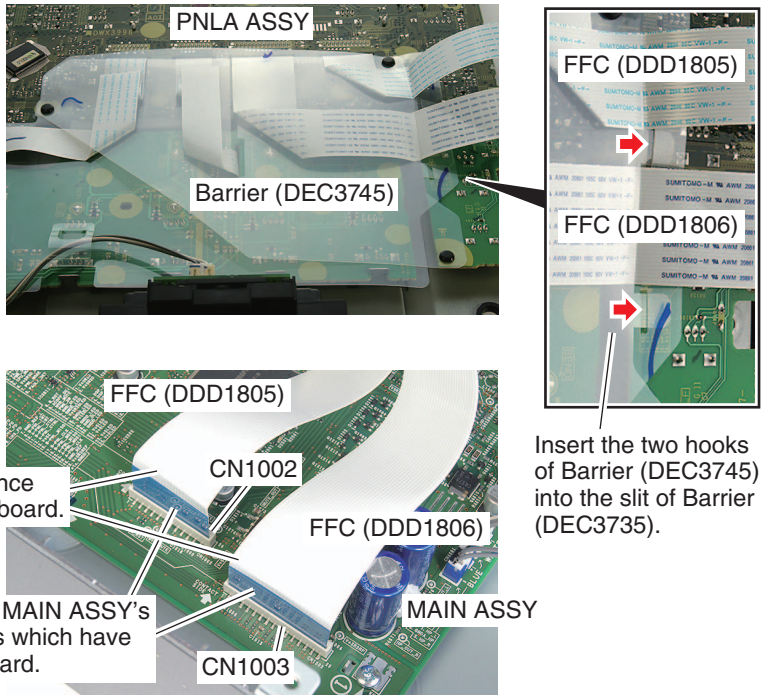
[3-4-1] FFC (DDD1805, DDD1806, DDD1808, DDD1809)

Lay the four FFCs between the Barrier (DEC3735) and Barrier (DEC3745).
Connect the two FFCs (DDD1805 and DDD1806) to the PNLA ASSY's Connector with the ends which have shorter reinforcement board.

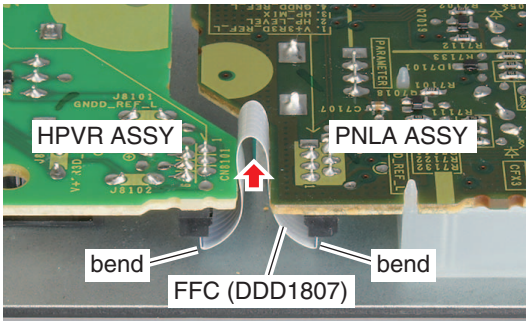


[3-4-2] Connector ASSY (PF03PP-B12) (Between the CHFD ASSY and Cross Fader ASSY)

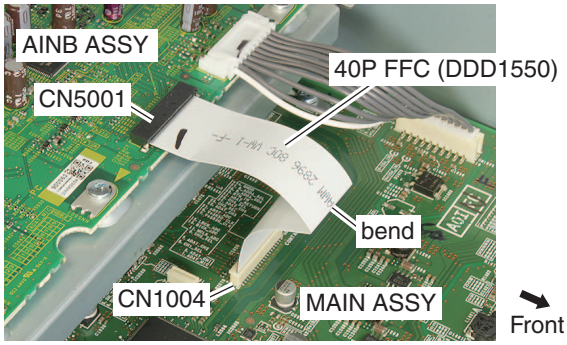
Pass the Connector ASSY through the bended loop of Barrier (DEC3735).



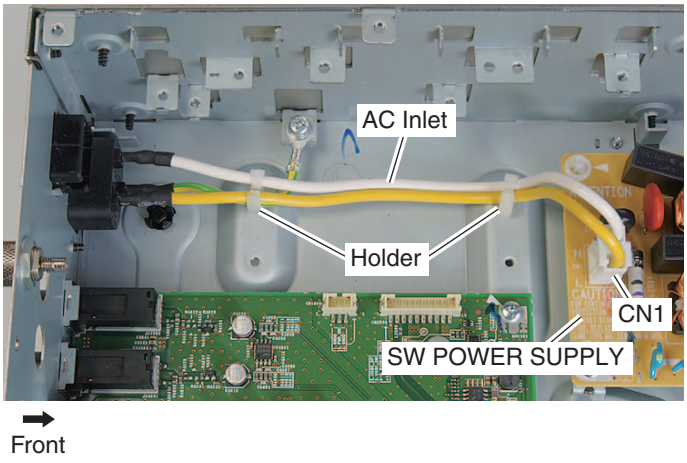
[3-4-3] FFC (DDD1807)



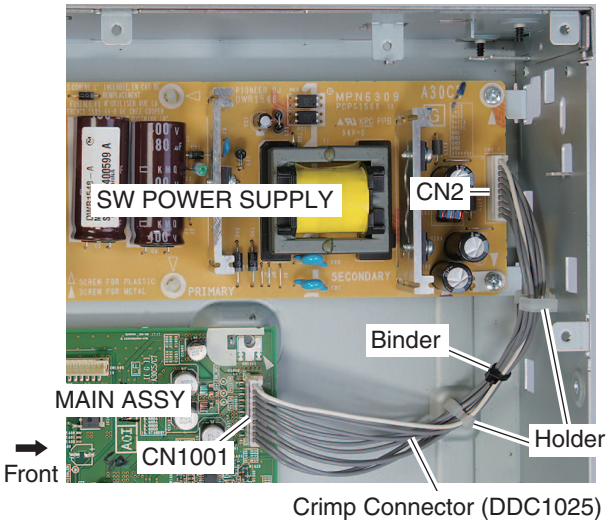
[3-4-4] 40P FFC (DDD1550)



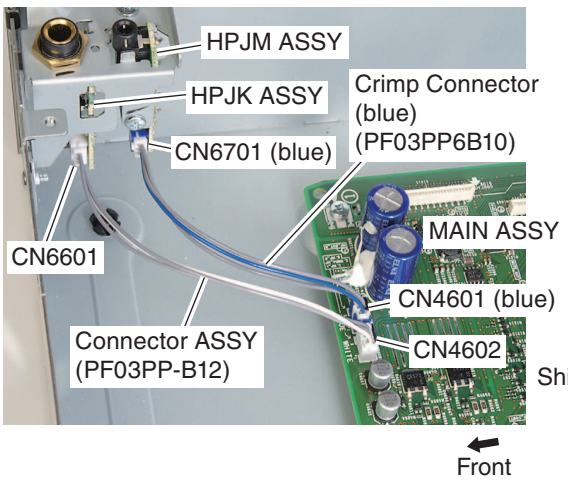
[3-4-5] AC Inlet



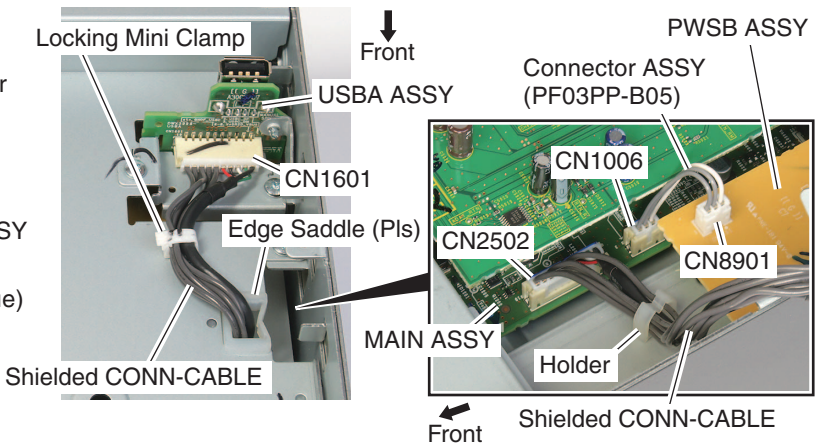
[3-4-6] Crimp Connector (DDC1025)



[3-4-7] Crimp Connector (PF03PP6B10), Connector ASSY (PF03PP-B12)

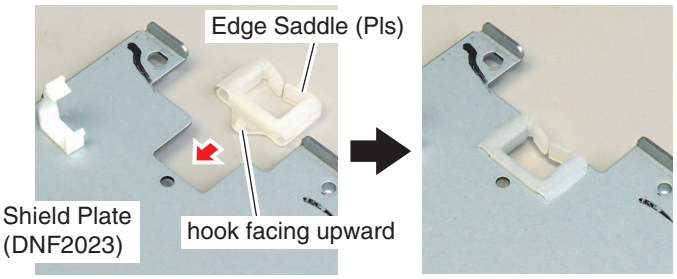


[3-4-8] Shielded CONN-CABLE, Connector ASSY (PF03PP-B05)



[3-5] Edge Saddle (Pls)

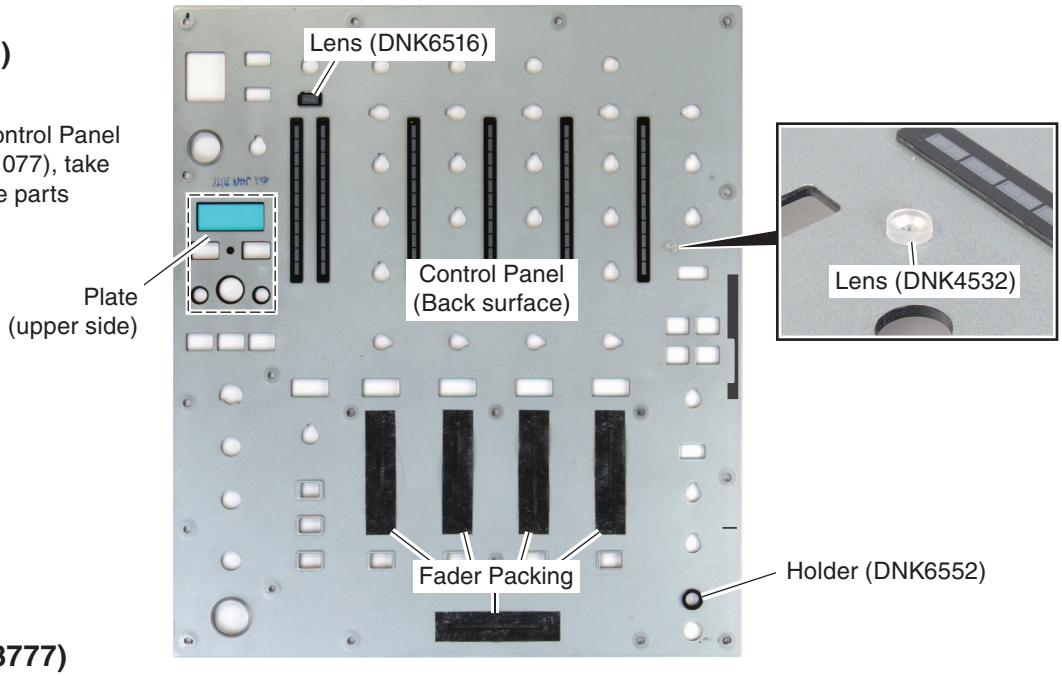
It has a direction with front and back sides.



[3-6] Control Panel (Service ASSY) (DEA1077)

When replacing the Control Panel (Service ASSY) (DEA1077), take caution to attach all the parts

.

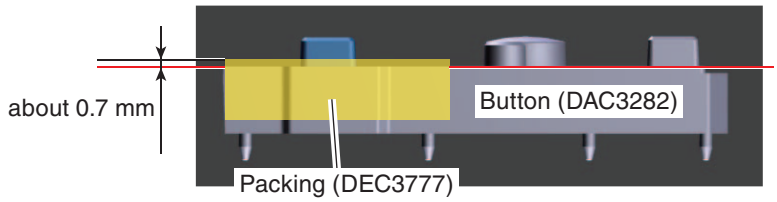


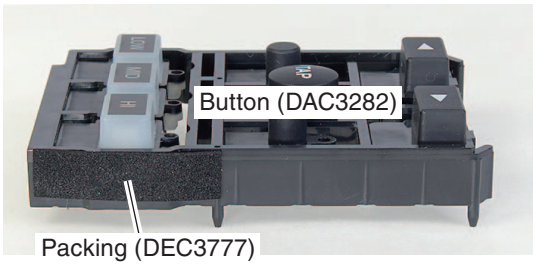
[3-7] Packing (DEC3777)

When replacing the Button (DAC3282), do not forget to attach Packing (DEC3777).

Attach the Packing (DEC3777) so as to protrude about 0.7 mm over the upper surface of base (red line) of the Button (DAC3282).

If it is damaged, replace with a new one.



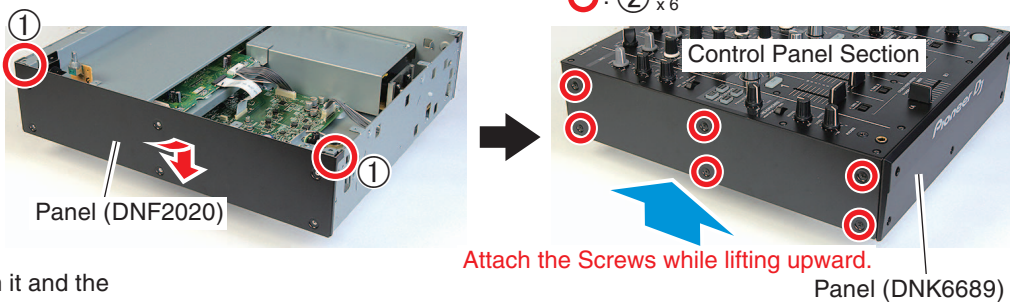


[3-8] Panel (DNF2020)

① Attach the Panel (DNF2020) temporarily to the Chassis by two hooks.

② After attaching the Control Panel Section and Panel (DNK6689), fix it with six screws (DBA1290) while lifting upward.
(to reduce the gap between it and the Control Panel.)

Above photos show the left side. Follow the same procedure on the right side.

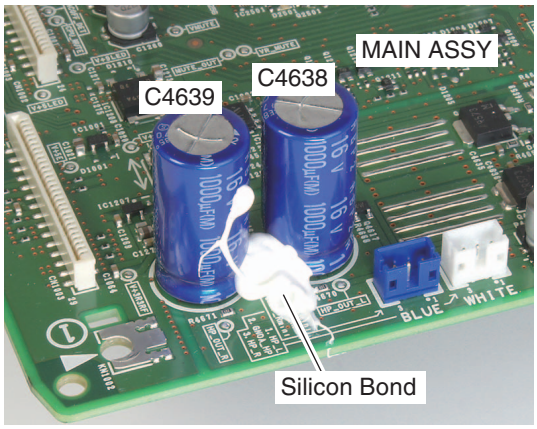


[3-9] Replacement of Capacitor C4638 and C4639

C4638 and C4639 in the MAIN ASSY are locked with bond to prevent solder cracks caused by fall or vibration.

When any of them is replaced for repair, it must be locked with bond after the replacement.

Silicon Bond used: GYA1011



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

Before carrying out the repair, be sure to check the version of firmware (6.1 TEST MODE [1. Version confirmation mode]).
If the version is not the latest, update it to the latest version.

If the following parts are replaced with new ones, carry out each item.

- MAIN ASSY
  (FLASH ROM IC: IC2003)

  ⇨
  - Check the version of firmware.
  - Update to the latest firmware version.
  - Write the serial number.
  - Acquire and save the maximum and minimum A/D value of [Cross Fader].
    (Refer to 6.1 TEST MODE [2. Cross fader setting mode "CFDR SET"])

- Cross Fader ASSY

  ⇨
  - Acquire and save the maximum and minimum A/D value of [Cross Fader].
    (Refer to 6.1 TEST MODE [2. Cross fader setting mode "CFDR SET"])

8.2 UPDATING OF THE FIRMWARE

Method of firmware update

Down load the firmware and prepare a USB memory for update using your USB memory.
Update the firmware using the USB memory for update.

What you need to create USB memory for update :
FAT or FAT32 format USB memory (USB mass storage class)

Extraction file

Extraction the down loaded file [DJM-750MK2_vxxx.zip]. Firmware file appears.
DJM-750MK2_vxxx.upd

- ✓ "xxx" indicates the new firmware version.
- ✓ Depending on the computer settings, extension (.upd) might not be displayed.

Preparing for update

Copy the [DJM-750MK2_vxxx.upd] file to the root directory of the USB memory.

- ✓ Don't change the file name.
- ✓ Don't store multiple firmware's in the USB memory.

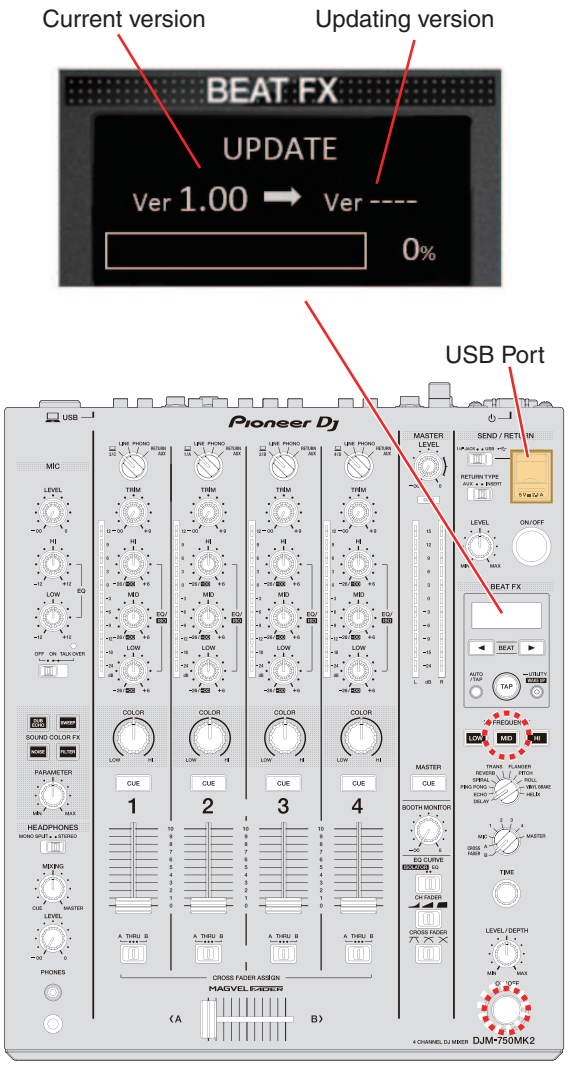
How to update

1. Starting the update mode.
   Keep pressing [ON/OFF (BEAT FX)] and [FX FREQUENCY(MID)] and power supply is turned ON.

2. Confirming the current version.
   Confirm the version displayed in the display section.
   If version is already xxx, firmware is the latest and then update is not needed.

3. Insert the USB memory for update into the USB port.
   Update will start.
   Progress state is displayed using bar graph and percentage terms.
   - ✓ Never pull out the USB memory or power supply is turned OFF during the updating.
   - ✓ Time needed to update is about 2 minutes.

4. When [COMPLETE] is displayed, power supply is turned OFF and pull out the USB memory for update.



Then, update is finished.
If update is not started, retry from the firmware down load.
If you still cannot update, it is considered the cause of USB memory.
Please try another USB memory.

8.3 METHOD OF WRITING SERIAL NUMBER

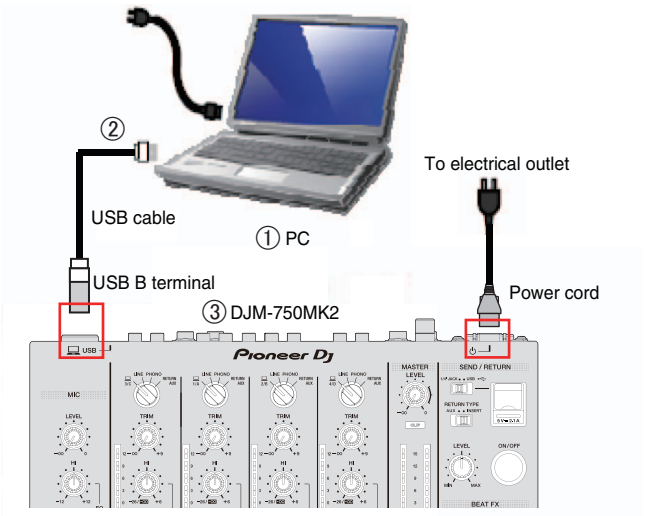
Prior preparation

① Download relevant software from the Niis.
② Save the extracted folder to the PC.

Structure of the extracted folder is as follows.

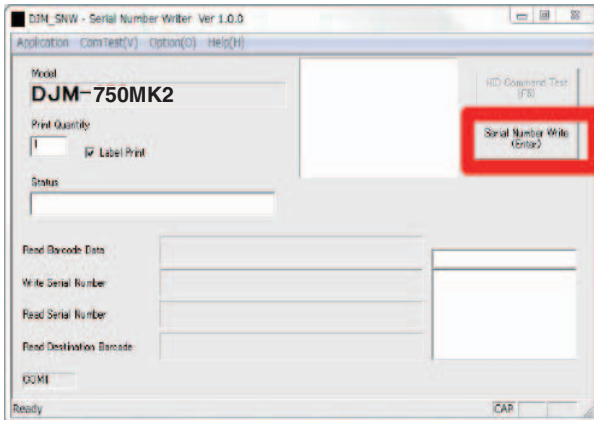
- Ini folder
- Log folder
- D JM_SNW.exe
- device.ini
- hidcom.dll

Connection method



Steps

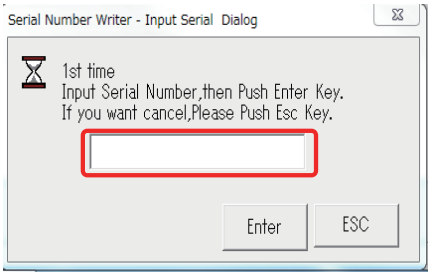
① Power supply is turned ON of the PC, double-click the "DJM_SNW.exe" in the saved folder, and if software is started, press [Serial Number Write] button.



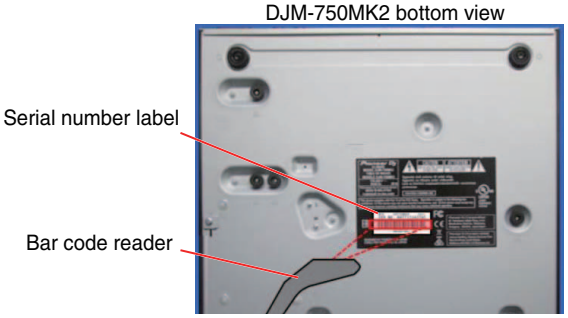
② Connect the USB B terminal of unit and PC using the USB cable.

③ Keep pressing the keys [NOISE] + [FILTER] + [CH1 CUE] and power supply is turned ON of DJM-750MK2.

④ When power supply of DJM-750MK2 is turned ON, dialog for serial number input (for the first time) is displayed on the software.
Manually input serial number or read the label in the bottom of unit using bar code reader and then press [Enter] button.
If manually input, be careful that " ' " is required before serial number (12 digit). (If it is forgotten, error is displayed.)
When using bar code reader, connect to the PC in prior.



DJM-750MK2 bottom view



⑤ Dialog for serial number input (for the second time) is displayed again, manually input serial number as same as ④, or read using bar code reader and then press [Enter] button.

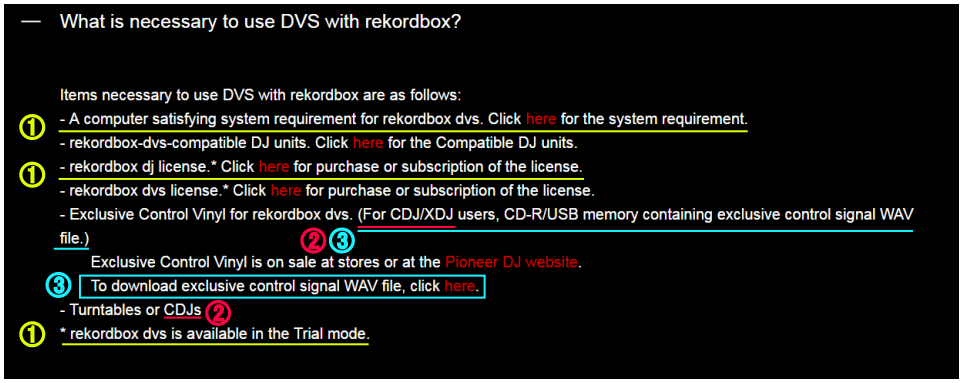
⑥ Confirm that serial number written to DJM-750MK2 display is displayed.

⑦ When writing is normally finished, "OK" is displayed on software of the PC.

8.4 METHOD OF DVS CONNECTION CONFIRMATION

A thing required to being DVS in rekordbox

*Refer to the https://rekordbox.com/ja/support/faq.php?c=952#faq-id-437



① PC which is downloaded rekordbox dj and rekordbox dvs (Trial Mode is possible).
*Input a sound for operation confirmation into the rekodbox dj.
② CDJ or XDJ (all models are possible)
③ An analog cable for connect CDJ or XDJ to this unit
- A USB cable for connect the PC to this unit
- A USB memory including control signals for following rekordbox dvs
https://rekordbox.com/dvs/rekordbox_Control_Sognal.zip

Confirmation steps

① Connect USB-B terminal (back side) of this unit and PC using a cable.
② Connect output terminal of CDJ or XDJ to the LINE input terminal of CH1 of this unit.
③ Set the input changeover switch of CH1 to PC (Personal Computer Mark).
④ Insert a USB memory storing dvs specific control signals into CDJ or XDJ and play the specific control signals.

Connect the rekordbox dvs according to followings.
https://rekordbox.com/_app/files/img/rekordbox_dvs_Setup_Guide_en_b.pdf

Confirmation items

① Confirm that a circle of control signals appear.
② Confirm that REL is lighting.
③ Confirm that sound is outputted from MASTER output of the Mixer.

Repeat above confirmation items ① to ③ in regard to CH1 and CH4 and then confirm the DVS route.

Connection details

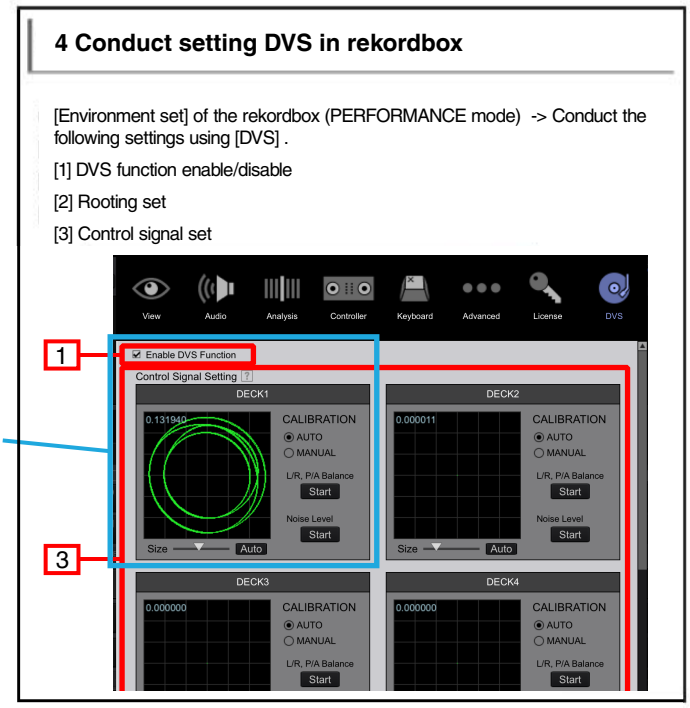
Connect the rekordbox dvs according to followings.
https://rekordbox.com/_app/files/img/rekordbox_dvs_Setup_Guide_en_b.pdf

Please refer to following details setup in the setting items.

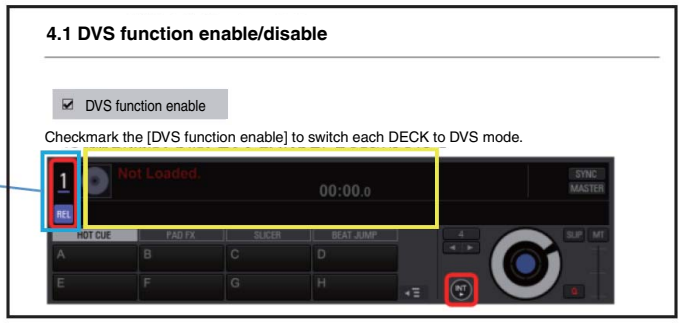
Setting items
Setup material items

[1]	Enables DVS function
[2]	Connects CDJs/DECK1 to MIXER CH1
[3]	No setting because it is not connecting using a turn table

Settings, play rekordbox dvs specific control signal at the CDJ.



① As shown above, confirm that a circle of item 4 appears.



② Set to the REL mode and confirm that the mode name of REL is lighting.

Assign a piece of music to the CH1 of rekordbox dvs.
Confirm that control signals are played by CDJ/XDJ.
③ Confirm that the level meter of CH1 of this unit is lighting.
④ Check the sound of MASTER output of this unit.

8.5 ITEMS FOR WHICH USER SETTING ARE AVAILABLE

For user setting item

This unit has user setting the following items.
If you replaced the parts of subject (substrate ASSY), please change to the setting that had been ahead to user setting item check sheet before work.
If you can not change tells that the utility setting at the time of repair return is clear to the user,
please guidance to get re-set, if necessary.
It should be noted that each of setting value of the utility can be found in the display unit of main unit.

User setting items		Setting range	Initial value (Factory setting)	Parts	Content to be stored
MASTER OUT	PEAK LIMITER	ON/OFF	ON	IC2003 (MAIN ASSY)	Utility Settings
	ATT.	-12dB/-6dB/0dB	0dB		
	MONO/STEREO	MONO/STEREO	STEREO		
BOOTH OUT	ATT.	-12dB/-6dB/0dB	0dB		
	MONO/STEREO	MONO/STEREO	STEREO		
MIC OUT TO MASTER	PEAK LIMITER THRESHOLD LEVEL	0dB/3dB/6dB/9dB/ 12dB/15dB/OFF	OFF		
MIC OUT TO BOOTH	LEVEL	OFF/-18dB/-15dB/-12dB/ -9dB/-6dB/-3dB/0dB	0dB		
	PEAK LIMITER THRESHOLD LEVEL	0dB/3dB/6dB/9dB/ 12dB/15dB/OFF	OFF		
MIC LOW CUT	–	ON/OFF	ON		
TALK OVER	MODE	ADVANCED/NORMAL	ADVANCED		
	LEVEL	-24dB/-18dB/-12dB/-6dB	-18dB		
MIDI	CH	1 – 16	1		
	BUTTON TYPE	TOGGLE/TRIGGER	TOGGLE		
OLED BRIGHTNESS	–	1 – 3	3		
PC UTILITY	–	ON/OFF	OFF		
AUTO STANDBY	–	ON/OFF	ON		
Factory Reset		YES/NO	NO		

User setting item check sheet

MASTER OUT

PEAK LIMITER		ATT.			MONO/STEREO	
OFF	ON	–12 dB	–6 dB	0 dB	MONO	STEREO

BOOTH OUT

ATT.			MONO/STEREO	
–12 dB	–6 dB	0 dB	MONO	STEREO

MIC OUT TO MASTER

PEAK LIMITER THRESHOLD LEVEL						
0 dB	3 dB	6 dB	9 dB	12 dB	15 dB	OFF

MIC OUT TO BOOTH

LEVEL							
OFF	–18 dB	–15 dB	–12 dB	–9 dB	–6 dB	–3 dB	0 dB

PEAK LIMITER THRESHOLD LEVEL						
0 dB	3 dB	6 dB	9 dB	12 dB	15 dB	OFF

MIC LOW CUT

OFF	ON

TALK OVER

MODE		LEVEL			
ADVANCED	NORMAL	–24 dB	–18 dB	–12 dB	–6 dB

MIDI

CH																BUTTON TYPE	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	TOGGLE	TRIGGER

OLED BRIGHTNESS

1	2	3

PC UTILITY

OFF	ON

AUTO STANDBY

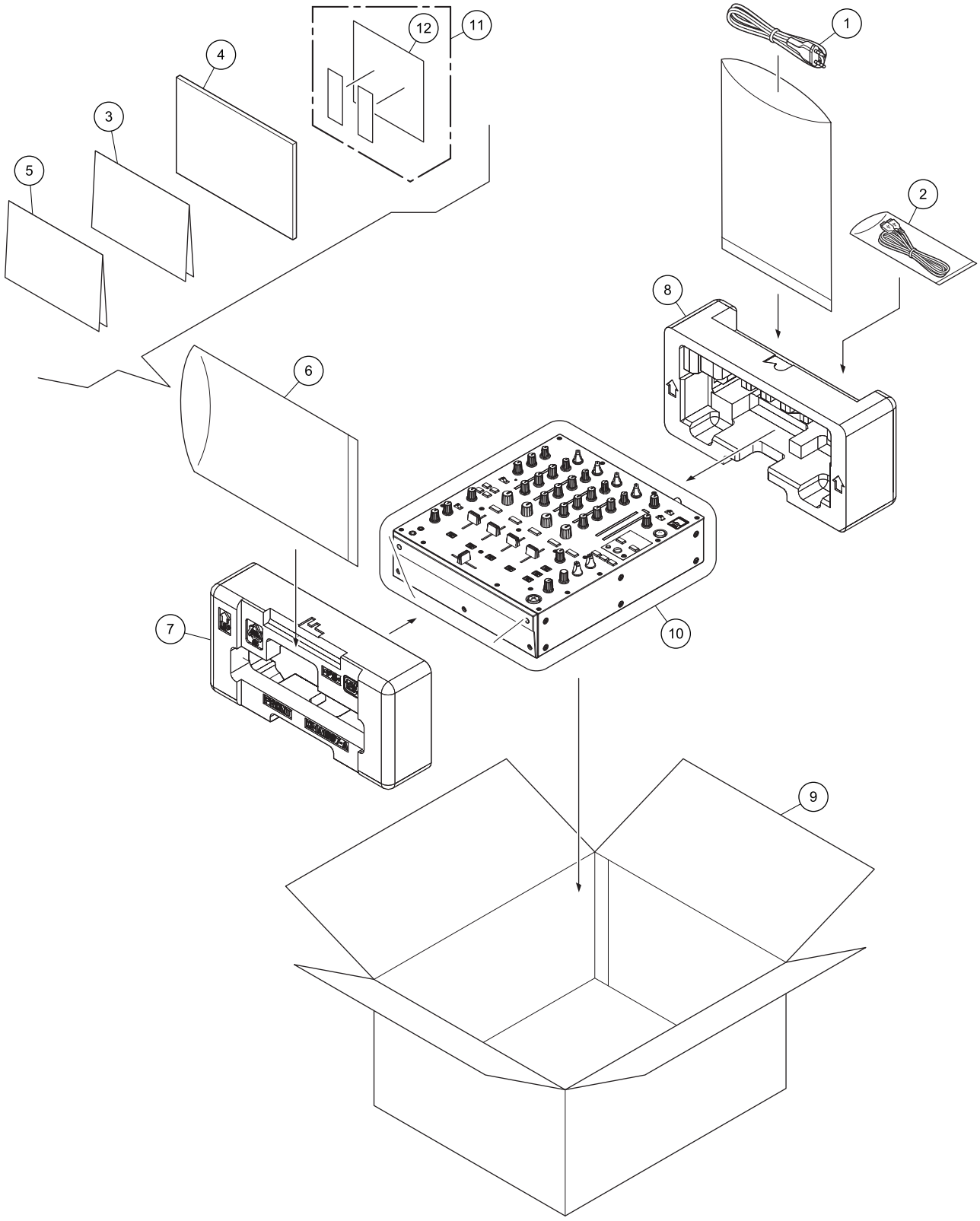
OFF	ON

Factory Reset
Do not perform it before writing in user setting.

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

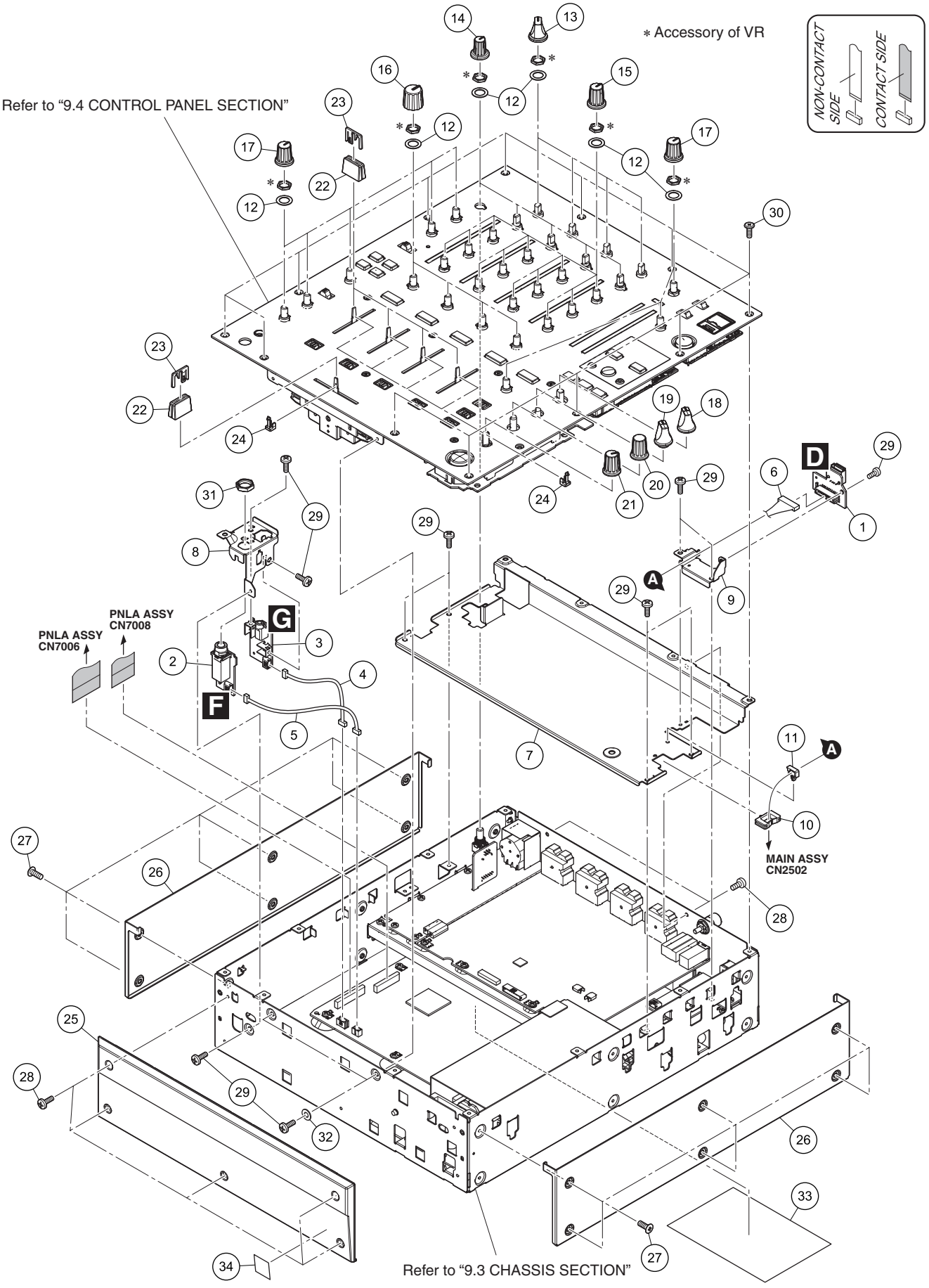
Mark	No.	Description	Part No.
⚠	1	Power Cord	See Contrast table (2)
	2	USB Cable	DDE1128
NSP	3	Leaflet	See Contrast table (2)
	4	Operating Instructions (Quick Start Guide)	See Contrast table (2)
NSP	5	Warranty	See Contrast table (2)
NSP	6	Polyethylene Bag	AHG7117
	7	Packing Pad	DHA1967
	8	Packing Pad	DHA1968
	9	Packing Case	See Contrast table (2)
	10	Sheet	RHX1006
NSP	11	License Key Card (rekordbox dj, recordbox dvs)	DEA1064
NSP	12	Leaflet	DRM1419

(2) CONTRAST TABLE

LSYXJ, UXJCB and XJCN are constructed the same except for the following:

Mark	No.	Symbol and Description	LSYXJ	UXJCB	XJCN
⚠	1	Power Cord	ADG1244	DDG1108	DDG1114
NSP	3	Leaflet	DRH1431	DRH1431	DRH1432
	4	Operating Instructions (Quick Start Guide)	DRH1433	DRH1434	DRH1436
NSP	5	Warranty	DRY1270	Not used	Not used
	9	Packing Case	DHG3572	DHG3573	DHG3575

9.2 EXTERIOR SECTION



EXTERIOR SECTION PARTS LIST

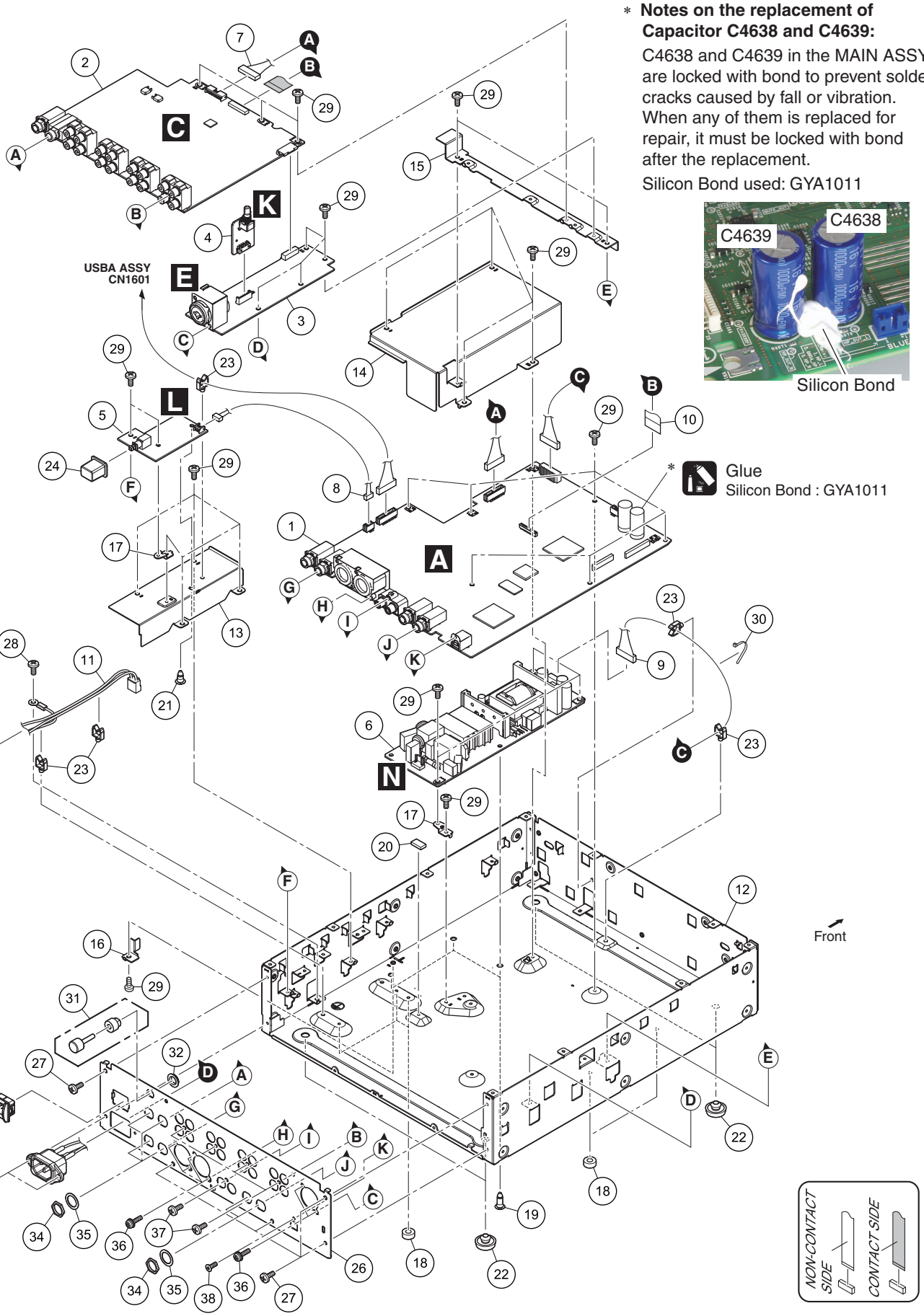
Mark	No.	Description	Part No.
	1	USBA ASSY	DWX3998
	2	HPJK ASSY	DWX4001
	3	HPJM ASSY	DWX4002
	4	Crimp Connector	PF03PP6B10
	5	Connector ASSY	PF03PP-B12
	6	Shielded CONN-CABLE	DDA1079
	7	Shield Plate	DNF2023
	8	Stay	DNF2027
	9	Stay	DNF2028
	10	Edge Saddle (Pls)	AEC7582
	11	Locking Mini Clamp	DEC2439
	12	Washer	DEC3731
	13	Rotary SW Knob	DAA1185
	14	Knob	DAA1381
	15	Knob	DAA1383
	16	Knob	DAA1373
	17	Knob	DAA1382
	18	Select Knob	DAA1205
	19	Fx Select Knob	DAA1213
	20	Knob (Time)	DAA1214
	21	Knob	DAA1368
	22	Slider Knob 1	DAC2684
	23	Slider Knob 2	DAC2685
	24	Slider Knob Stopper	DNK5888
	25	Panel	DNK6689
	26	Panel	DNF2020
	27	Screw (Fe)	DBA1290
	28	Screw	BBZ30P060FTB
	29	Screw	BBZ30P060FTC
	30	Screw	DBA1451
	31	Nut M12	DBN1018
	32	Washer	WB30FTC
NSP	33	Name Label	See contrast table (2)
NSP	34	Label	See contrast table (2)

(2) CONTRAST TABLE

LSYXJ, UXJCB and XJCN are constructed the same except for the following:

Mark	No.	Symbol and Description	LSYXJ	UXJCB	XJCN
NSP	33	Name Label	DAL1349	DAL1349	DAL1351
NSP	34	Label	Not used	DRW1975	Not used

9.3 CHASSIS SECTION



* **Notes on the replacement of Capacitor C4638 and C4639:**

C4638 and C4639 in the MAIN ASSY are locked with bond to prevent solder cracks caused by fall or vibration. When any of them is replaced for repair, it must be locked with bond after the replacement.

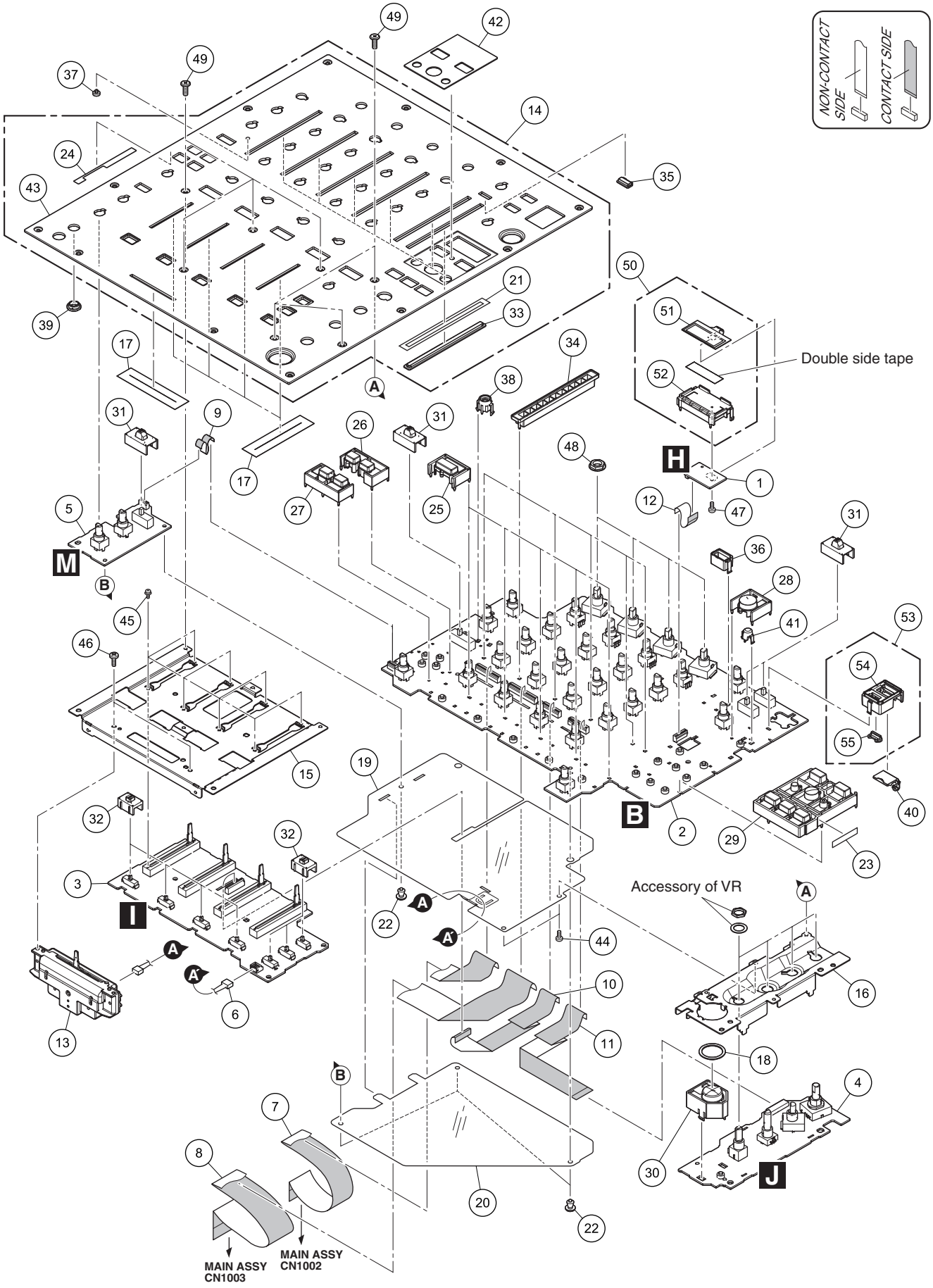
Silicon Bond used: GYA1011

* Glue
Silicon Bond : GYA1011

CHASSIS SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	MAIN ASSY	DWX3997
	2	AINB ASSY	DWX3999
	3	MICB ASSY	DWX4000
	4	MTRM ASSY	DWX4005
	5	PWSB ASSY	DWX4006
	6	SW POWER SUPPLY	DWR1548
	7	Crimp Connector	PF10PP-D07
	8	Connector ASSY	PF03PP-B05
	9	Crimp Connector	DDC1025
	10	40P FFC	DDD1550
⚠	11	AC Inlet	DKP3988
NSP	12	Chassis	DNA1472
	13	Shield Plate	DNF2021
	14	Shield Plate	DNF2022
	15	Stay	DNF2024
	16	Stopper	DNH3295
NSP	17	PCB Stay (Fe)	VNE2489
NSP	18	Spacer	AEB7092
	19	Spacer	AEC1065
	20	Sheet	DEC3621
NSP	21	PCB Holder	PNW1706
	22	Foot (Rubber)	REC-434
	23	Holder	VEC1355
	24	Power Knob	DAC2306
	25	Power Knob Guard	DNK4534
	26	Rear Panel	DNC2130
	27	Screw	BBZ30P060FTB
	28	Screw	PMH40P080FTC
	29	Screw	BBZ30P060FTC
	30	Binder	ZCA-SKB90BK
	31	Earth Terminal	DKE1019
	32	Flange Nut M9	DBN1008
	33	Screw	IBZ30P080FTB
	34	Nut	NKX2FTC
	35	Washer	DEC2920
	36	Screw	PPZ30P080FTB
	37	Screw	BPZ30P080FTB
	38	Screw (M3x5)	DBA1340

9.4 CONTROL PANEL SECTION



CONTROL PANEL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	OLED ASSY	DWX4010
	2	PNLA ASSY	DWX3996
	3	CHFD ASSY	DWX4003
	4	BFXB ASSY	DWX4004
	5	HPVR ASSY	DWX4007
	6	Connector ASSY	PF03PP-B12
	7	FFC	DDD1805
	8	FFC	DDD1806
	9	FFC	DDD1807
	10	FFC	DDD1808
	11	FFC	DDD1809
	12	FFC	DDD1810
	13	Cross Fader ASSY	DXA2257
	14	Control Panel (Service ASSY)	DEA1077
	15	Stay	DNF2025
	16	Stay	DNF2026
	17	Fader Packing	DEC2903
	18	SW Packing (Ef)	DEC2929
	19	Barrier	DEC3735
	20	Barrier	DEC3745
	21	DS Tape	DEH1094
	22	Rivet (Plastic)	RBM-003
	23	Packing	DEC3777
	24	Packing	DEC3781
	25	Button	DAC3250
	26	Button	DAC3249
	27	Button	DAC3251
	28	Button	DAC3257
	29	Button	DAC3282
	30	Button	DAC3141

Mark	No.	Description	Part No.
	31	Cap /MIC	DAC2773
	32	Cap	DAC3284
	33	Lens	DNK6690
	34	Holder	DNK6691
	35	Lens	DNK6516
	36	Holder	DNK6692
	37	Lens	DNK4532
	38	Holder /LED	DNK5973
	39	Holder	DNK6552
	40	Lid	DNK6652
	41	Lens	DNK6694
	42	Plate	DAK1012
NSP	43	Control Panel	DNB1255
	44	Screw	BBZ30P060FTC
	45	Screw	PMH20P040FTC
	46	Screw	BPZ30P080FTC
	47	Screw	BPZ20P040FTB
	48	Flange Nut M9	DBN1008
	49	Screw	DBA1451
	50	OLED ASSY	DEA1065
	51	Matrix OEL	MXS4057
	52	Holder	DNK6659
	53	Escutcheon Service ASSY	DEA1072
	54	Escutcheon	DNK6693
	55	Lens	DNK6610