Pioneer DJ

Service Manual

DDJ-RZX

ORDER NO.
RRV4653

DJ Controller

DDJ-RZX

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

Model	Type	Power Requirement	Remarks
DDJ-RZX	LWSYXJ	AC 110 V to 240 V	
DDJ-RZX	UXJCB	AC 110 V to 240 V	
DDJ-RZX	XJCN	AC 220 V	

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

Model	Order No.	Remarks
DDJ-RZX	RRV4654	SCHEMATIC DIAGRAM, PCB CONNECTION DIAGRAM, PCB PARTS LIST

Pioneer DJ Corporation
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K-ZZZ JUNE 2016

SAFETY INFORMATION

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

WARNING

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

Health & Safety Code Section 25249.6 - Proposition 65

CONTENTS

1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

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

1.2 NOTES ON PARTS REPLACEMENT

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

Assy Name	Parts that is Diffcult to Replace			
	Ref No.	Function	Part No.	Remarks
MAIN Assy	IC1701	AM3352BZCZ80-K	U-PRO IC	BGA
	IC1051	BD9328EFJ-TBB	DC-DC CONVERTER	IC with heat-pad (back side)
	IC1103			
	IC1301			
	IC1201	BD9851EFV-TBB	IC	IC with heat-pad (back side)
	IC1251			
	IC2601	D810K013DZKB456-K	AUD DSP SYS LSI	BGA
	IC3101			
	IC3602	SI5351C-B03300GM-TBB	PLL IC	QFN IC with heat-pad (back side)
	IC1601	TPS65910A31A1RSL-TLB	PO SUPPLY IC	QFN IC with heat-pad (back side)
	IC4901	USB2512B-AEZG-TR-TBB	INTERFACE IC	IC with heat-pad (back side)
	IC4951			
	IC1802	W631GG6KB-12-K	RAM IC	BGA
LCDM Assy	IC1381	AK4187VN-TLB	INTERFACE IC	IC with heat-pad (back side)
	IC1351	BD81A04EFV-M-TBB	DRIVER IC	IC with heat-pad (back side)
	IC101	BD9328EFJ-TBB	DC-DC CONVERTER	IC with heat-pad (back side)
	IC501	MCIMX6Q5EYM10AD-K	U-PRO IC	BGA
	IC401	MMPF0100F0AEP-K	PO SUPPLY IC	QFN IC with heat-pad (back side)
	IC1301	R1290K103A-TBB	DC/DC CONV IC	IC with heat-pad (back side)
	IC1201	TFP401APZP-K	INTERFACE IC	IC with heat-pad (back side)
	IC601	W631GG6KB-12-K	RAM IC	BGA
	IC602			
LCDP Assy	IC1881	AK4187VN-TLB	INTERFACE IC	IC with heat-pad (back side)
	IC1851	BD81A04EFV-M-TBB	DRIVER IC	IC with heat-pad (back side)
	IC1801	R1290K103A-TBB	DC/DC CONV IC	IC with heat-pad (back side)

The part listed below is difficult to replace as a discrete component part.
How to replace, refer to the remarks column.

Assy Name	Parts that is Diffcult to Replace			
	Ref No.	Function	Part No.	Remarks
JFLB1 Assy	V6001	DEL1074-A	JOG FL	Repair the JOG FL and FL holder after removing them as integrated units.
JFLB2 Assy	V6101			

1.3 SERVICE NOTICE

Calibration of the crossfaders and performance pads

The crossfaders and performance pads of this unit are calibrated on the production line.
After you replace the corresponding part(s), be sure to perform calibration of the part(s) in question.
See "Crossfader calibration mode", "PAD Calibration mode" in "6.1 SERVICE MODE" for details on how to calibrate.
Without calibration, sound will not completely fade out even if a crossfader is set to its minimum-value position, or the volume changing in response to force applied to a performance pad will vary from one performance pad to another in SAMPLER VELOCITY ON mode.
For details on the specific parts for which recalibration is required, see "8.1 NECESSARY ITEMS TO BE NOTED."

Notes on "10. SCHEMATIC DIAGRAM" and "12. PCB PARTS LIST"

The same reference numbers are allotted to some electrical parts of the DDJ-SZ in this service manual. When searching for a part by its reference number in this manual, be sure to confirm the Assy name, as well as the reference number.

Assy Name	Part No.	Circuit Block Name	Ref No.
MAIN Assy	DWX3822	DIGITAL PWR	1001-1200
		AUDIO PWR	1201-1400
		VDET	1401-1600
		AM_PWR	1601-1800
		AM_EMIF	1801-2000
LCDM Assy	DWX3828	IMX CLK/KEY/LED	1001-1100
		LCD3 HDMI RX	1201-1300
		LCD3 PWR/BL/TPNL	1301-1400
		LCD3 I/F	1401-1500
		BOARD I/F	1501-1600
LCDP Assy	DWX3791	BOARD I/F	1601-1700
		LCD1/2 LVDS RX	1701-1800
		LCD1/2 PWR/BL/TPNL	1801-1900
		LCD1/2 I/F	1901-2000

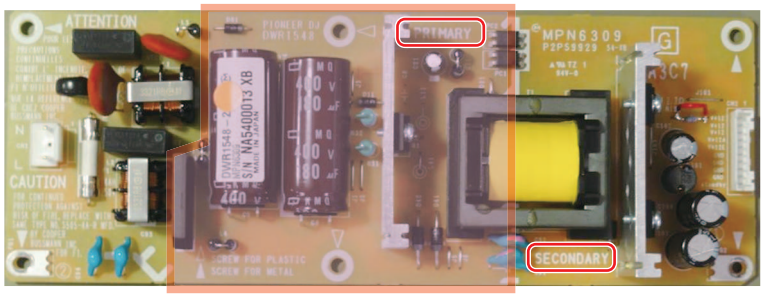
About touch panel inspection

The product which Firmware version is 1.03 or 1.04 is shipped holding the check results about touch panel of service mode.
(Touch screen (test) of adjustment information mode is displayed "OOO")
It cannot be inspect in this state. (Check result of 4 squares is already all green)
If you need to run touch panel check, you should run factory reset before it.
And select service mode, run touch panel check.
The product which Firmware version is 1.05 or later is shipped after the check results have been cleared.

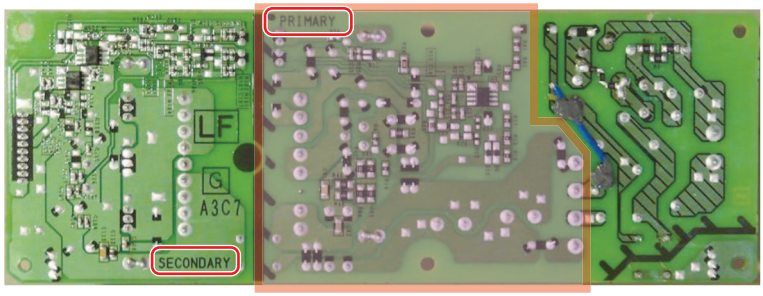
SW POWER SUPPLY Primary side electrical shock

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

Electrical shock area of A-side.

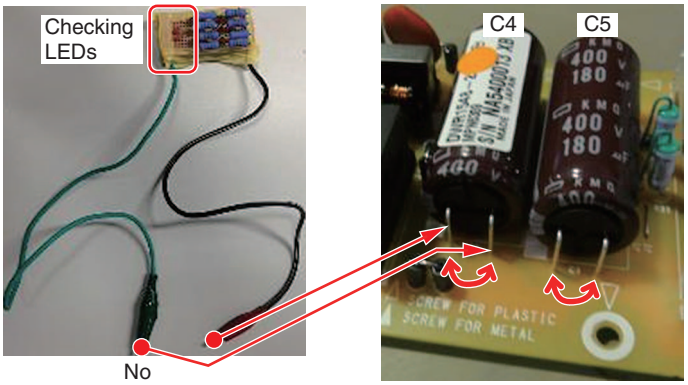


Electrical shock area of B-side.



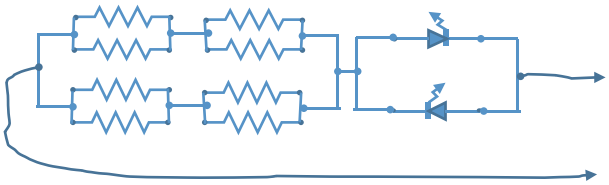
When discharging the above point, use the following discharge jig as needed.

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



The circuit of "discharge JIG" is shown below.

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



When there is no above type LED, take measures the following method.
Step 1: After the power is turned off, wait 2 minutes.
Step 2: Connect the Register Jig and leave the unit as it is, for 10 seconds.

2. SPECIFICATIONS

General – Main Unit

Power requirements ..... AC 110 V to 240 V, 50 Hz/60 Hz
Power consumption ..... 48 W
Power consumption (standby) ..... 0.4 W
Main unit weight ..... 15.9 kg (35.1 lb)
Max. dimensions ..... 945 mm (W) × 119.7 mm (H) × 547 mm (D)
(37.2 in. (W) × 4.7 in. (H) × 21.5 in. (D))
Tolerable operating temperature ..... +5 °C to +35 °C
(+41 °F to +95 °F)
Tolerable operating humidity ..... 5 % to 85 % (no condensation)

Audio Section

Sampling rate ..... 44.1 kHz/48 kHz/96 kHz
MASTER D/A converter ..... 32 bits
Other A/D and D/A converters ..... 24 bits
Frequency characteristic
USB, CD/LINE, MIC1, MIC2 ..... 20 Hz to 20 kHz
S/N ratio (rated output, A-WEIGHTED)
USB ..... 116 dB
CD/LINE ..... 101 dB
PHONO ..... 91 dB
MIC1 ..... 81 dB
MIC2 ..... 81 dB
Total harmonic distortion (20 Hz — 20 kHzBW)
USB ..... 0.002 %
CD/LINE ..... 0.003 %
Standard input level / Input impedance
CD/LINE ..... –12 dBu/47 kΩ
PHONO ..... –52 dBu/47 kΩ
MIC1 ..... –57 dBu/3 kΩ
MIC2 ..... –57 dBu/3 kΩ
Standard output level / Load impedance / Output impedance
MASTER 1 ..... +6 dBu/10 kΩ /390 Ω or less
MASTER 2 ..... +2 dBu/10 kΩ /820 Ω or less
BOOTH ..... +6 dBu/10 kΩ /390 Ω or less
PHONES ..... +8 dBu/32Ω /25 Ω or less
Rated output level / Load impedance
MASTER 1 ..... 25 dBu/10 kΩ
MASTER 2 ..... 21 dBu/10 kΩ
BOOTH ..... 25 dBu/10 kΩ
Crosstalk
CD/LINE ..... 82 dB
Channel equalizer characteristic
HI ..... –26 dB to +6 dB (30 kHz)
MID ..... –26 dB to +6 dB (1 kHz)
LOW ..... –26 dB to +6 dB (20 Hz)
Microphone equalizer characteristic
HI ..... –12 dB to +12 dB (10 kHz)
MID ..... –12 dB to +12 dB (2.5 kHz)
LOW ..... –12 dB to +12 dB (100 Hz)

Input / Output terminals

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

— Be sure to use the [MASTER 1] terminals only for a balanced output. Connection with an unbalanced input (such as RCA) using an XLR to RCA converter cable (or converter adapter), etc., may lower the sound quality and/or result in noise.
For connection with an unbalanced input (such as RCA), use the [MASTER 2] terminals.

Accessories

• Power cord
(LWSYXJ: ADG1244, UXJCB: DDG1108, XJCN: DDG1114)

• USB cable
(DDE1128)
Only one USB cable is included with this unit.
To connect two units, use a cable conforming to USB 2.0 standards.

• Operating Instructions (Quick Start Guide)
(LWSYXJ: DRH1345)
(UXJCB: DRH1344)
(XJCN: DRH1347)

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

• Software license notice
(DRM1410)

• License key card for “rekordbox dj”
(DXA2304)

• License key card for “rekordbox dvs”
(LWSYXJ: DXA2322, UXJCB: DXA2322)

• License key card for “rekordbox video”
(DXA2323)

3. BASIC ITEMS FOR SERVICE
3.1 CHECK POINTS AFTER SERVICING

Items to be checked after servicing

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

No.	Procedures	Check points
1	Check the firmware version in Test mode.	The firmware version must be the latest one. If it is not the latest one, be sure to update it.
2	Confirm that the customer complaint has been solved. If the problem pointed out by the customer occurs with a specific source or operation, such as Mic, each Input, Fader, Equalizer, and Trim, 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 output. (Check the each Channel, MIC1 and MIC2.) (Make the analog connections with CDJ player, analog player and MIC.)	Audio and operations must be normal.
4	Check the analog audio output. (MASTER1, 2 and BOOTH.)	Audio and operations must be normal.
5	Check DVS.	Make sure that PC applications function properly and that the audio signals and operations of each channel are normal.
6	Check the headphones output. (1/4" stereo phone plugs and 3.5 mm stereo mini plugs)	There must be no errors, such as noise, in the audio output.
7	Check playback, using the fader function. (Select the fader function then check operations of each channel with audio signals via the DSP.)	There must be no errors in audio output and operations of each channel.
8	Check the connection of each interface. USB B terminal (" A" / "B")	The device must be properly recognized by the PC.
9	Check operations of the operating elements. (KEY, SW, VR, Fader and PAD etc.)	Make sure that all buttons and controls on the main unit function properly in Test mode.
10	Check the FL displays and LEDs.	Check that all the OLED and LEDs light in Test mode.
11	Check the LCD dislay.	Check that there is no dirt or dust trapped inside the LCD display.
12	Check the touch panel.	Check whether a product can be operated properly in an all-black screen.
13	Check the user settings.	They must be returned to those set before repair.
14	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 low	Volume fluctuating
Noise	Volume too high	Sound interrupted

3.2 JIGS LIST

Jigs List

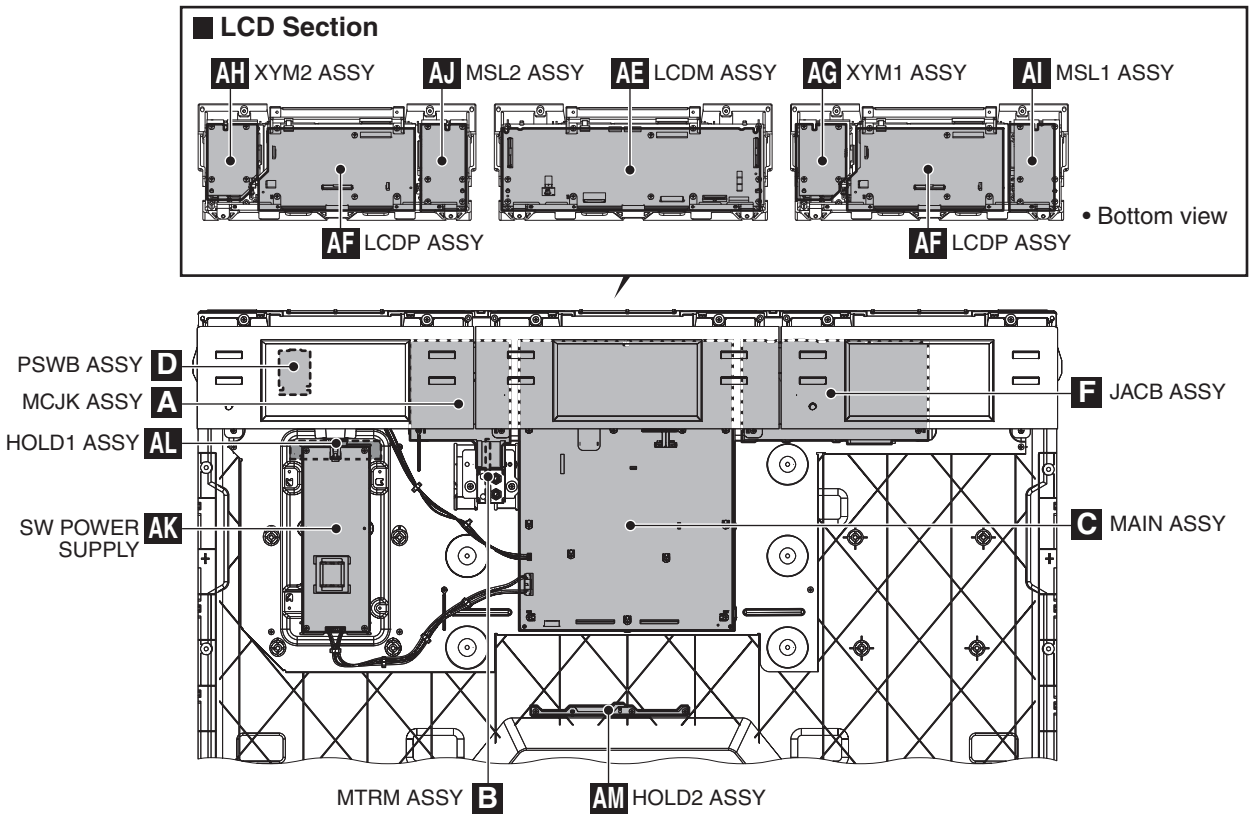
Jig Name	Part No.	Purpose of use / Remarks
USB cable	GGP1193	for PC connection
Weight for pad calibration	GGF1685	to be used as a weight for pad calibration **<Specifications of the weight>** Weight: 150 g ±5 g Base area: 10 mm dia. and with a flat base
License-key card for Service	GGP1152	for activation of rekordbox dj
	GGP1153	for activation of rekordbox DVS
	GGP1154	for activation rekordbox VIDEO

Lubricants and Glues List

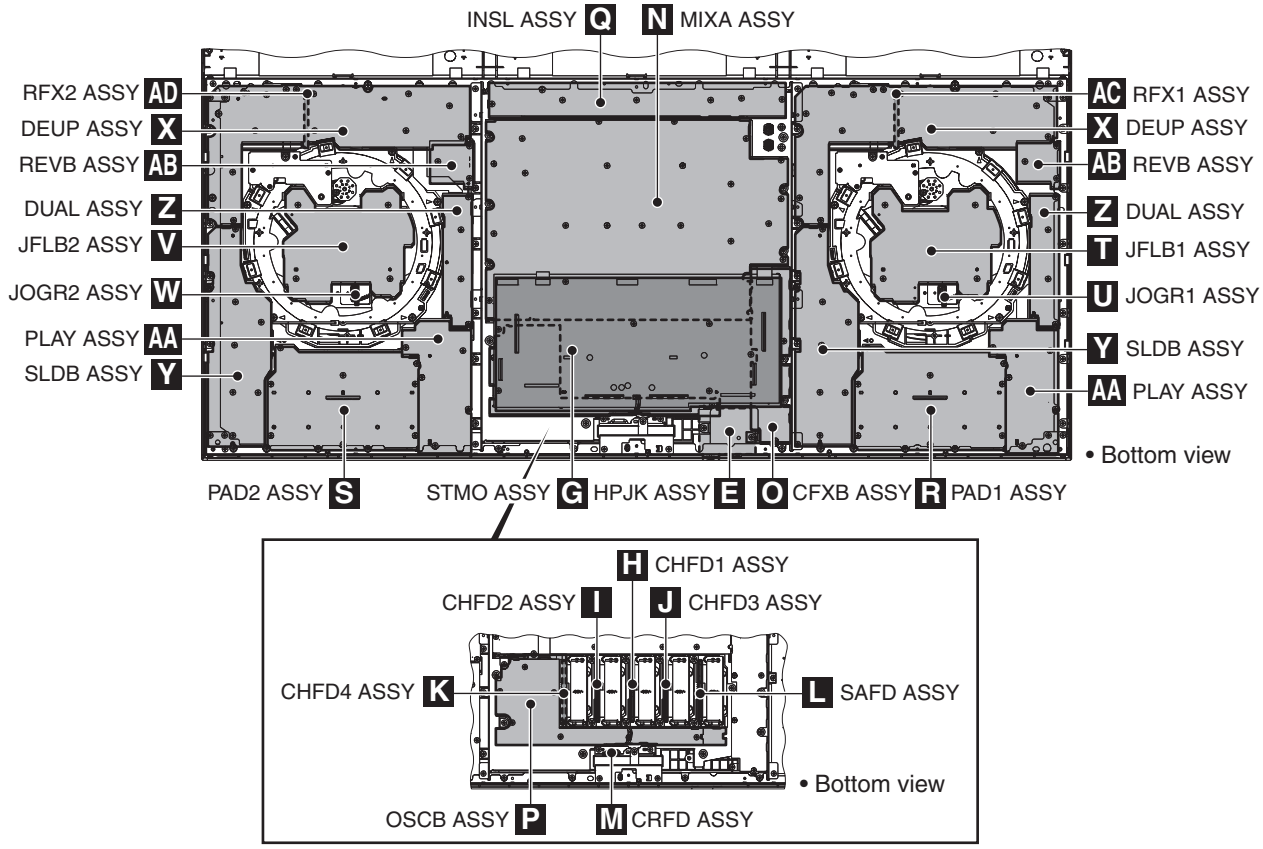
Name	Part No.	Remarks
Lubricating oil	GYA1001	Refer to "9.6 CONTROL PANEL SECTION (3/5)". Refer to "9.7 CONTROL PANEL SECTION (4/5)". Refer to "9.9 JOG DIAL SECTION".
Lubricating oil	GEM1034	Refer to "7 DISASSEMBLY". Refer to "9.9 JOG DIAL SECTION".

3.3 PCB LOCATIONS

■ Chassis Section



■ Control panel Section



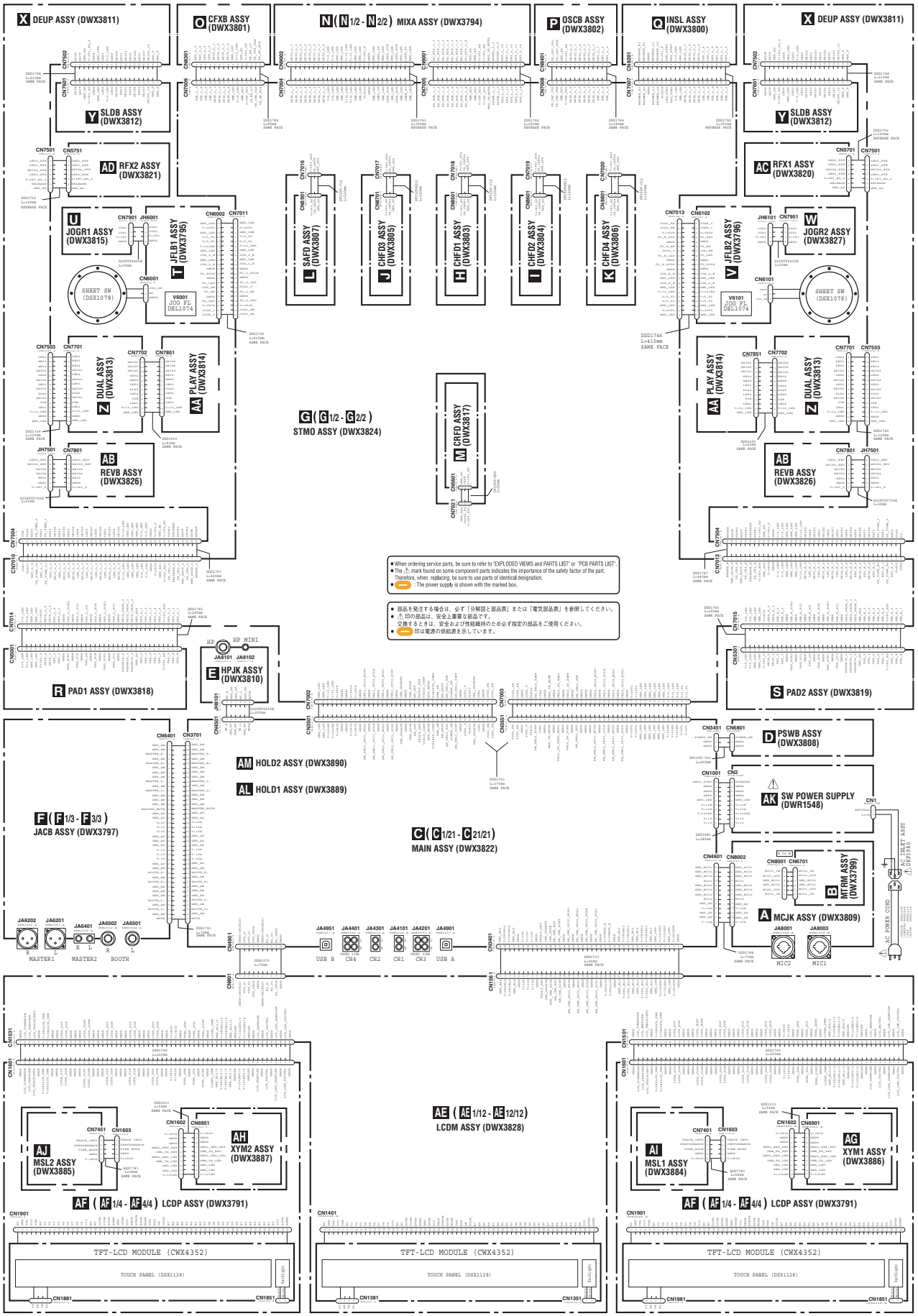
NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	MAIN ASSY	DWX3822
	1	LCDM ASSY	DWX3828
	1	LCDP ASSY	DWX3791
	1	MIXA ASSY	DWX3794
NSP	1	PADA ASSY	DWM2594
	2	CRFD ASSY	DWX3817
	2	PAD1 ASSY	DWX3818
	2	PAD2 ASSY	DWX3819
	2	RFX1 ASSY	DWX3820
	2	RFX2 ASSY	DWX3821
NSP	1	MIXB ASSY	DWM2596
	2	JFLB1 ASSY	DWX3795
	2	JFLB2 ASSY	DWX3796
	2	OSCB ASSY	DWX3802
	2	CHFD1 ASSY	DWX3803
	2	CHFD2 ASSY	DWX3804
	2	CHFD3 ASSY	DWX3805
	2	CHFD4 ASSY	DWX3806
	2	SAFD ASSY	DWX3807
	2	JOGR1 ASSY	DWX3815
	2	JOGR2 ASSY	DWX3827
	2	HOLD1 ASSY	DWX3889
	2	HOLD2 ASSY	DWX3890
NSP	1	JACK ASSY	DWM2597
	2	JACB ASSY	DWX3797
	2	MTRM ASSY	DWX3799
	2	MCJK ASSY	DWX3809
	2	HPJK ASSY	DWX3810
	2	MSL1 ASSY	DWX3884
	2	MSL2 ASSY	DWX3885
	2	XYM1 ASSY	DWX3886
	2	XYM2 ASSY	DWX3887
NSP	1	CDJA ASSY	DWM2595
	2	DEUP ASSY	DWX3811
	2	SLDB ASSY	DWX3812
	2	DUAL ASSY	DWX3813
	2	PLAY ASSY	DWX3814
	2	REVB ASSY	DWX3826
NSP	1	UCOM ASSY	DWM2602
	2	INSL ASSY	DWX3800
	2	CFXB ASSY	DWX3801
	2	PSWB ASSY	DWX3808
	2	STMO ASSY	DWX3824
⚠	1	SW POWER SUPPLY	DWR1548

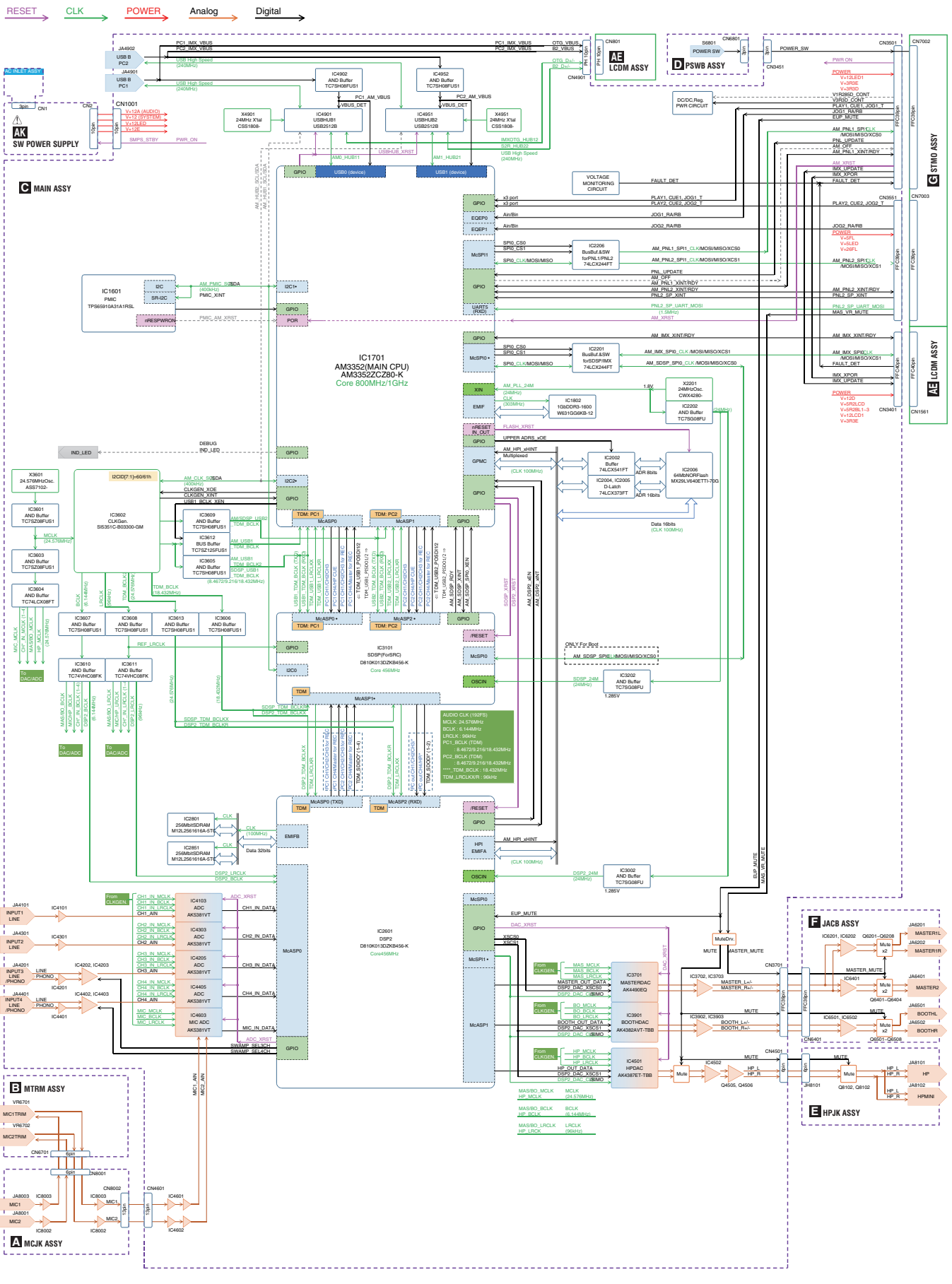
4. BLOCK DIAGRAM

4.1 OVERALL CONNECTION DIAGRAM

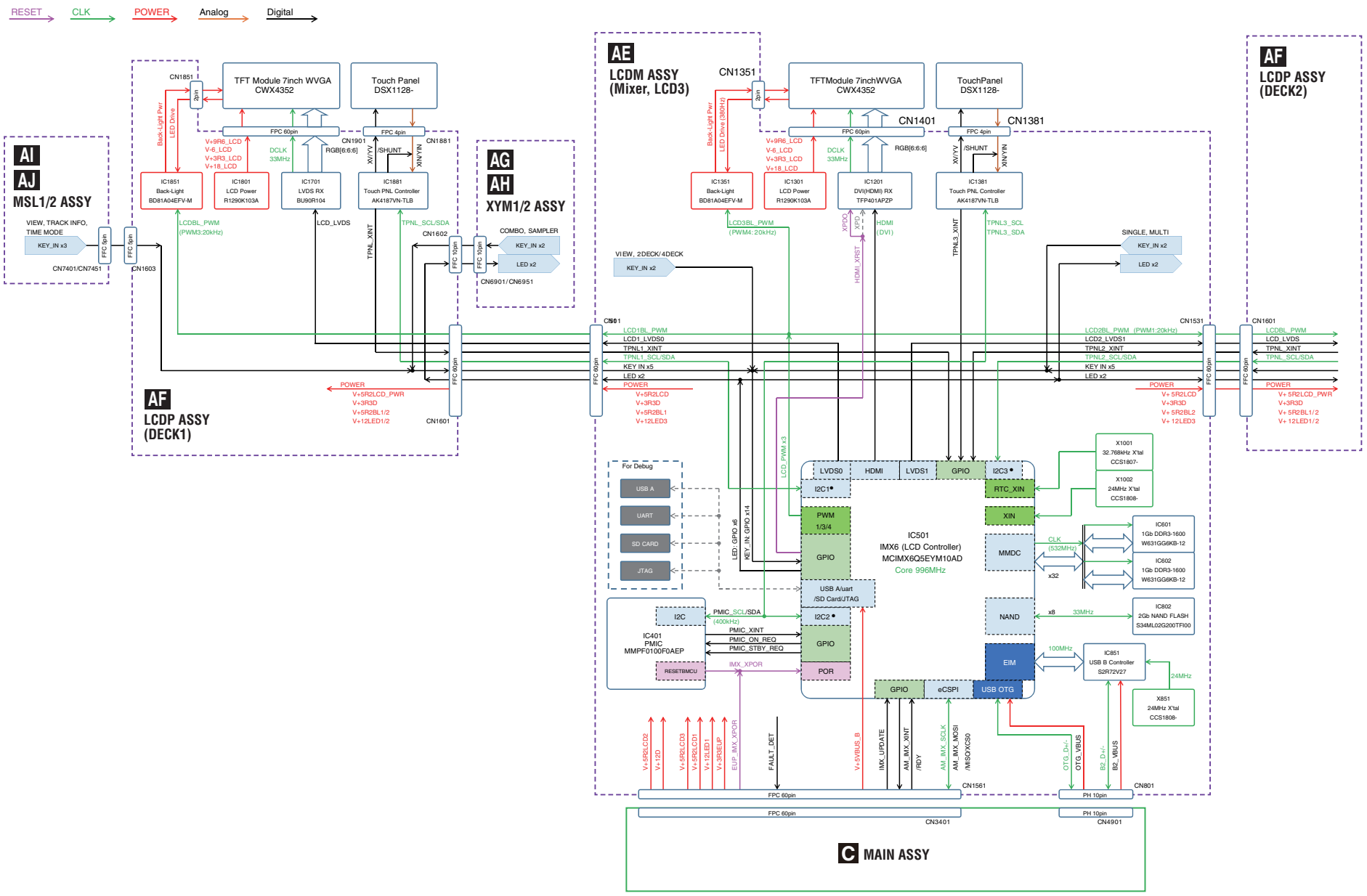


4.2 OVERALL BLOCK DIAGRAM

MAIN/AUDIO BLOCK

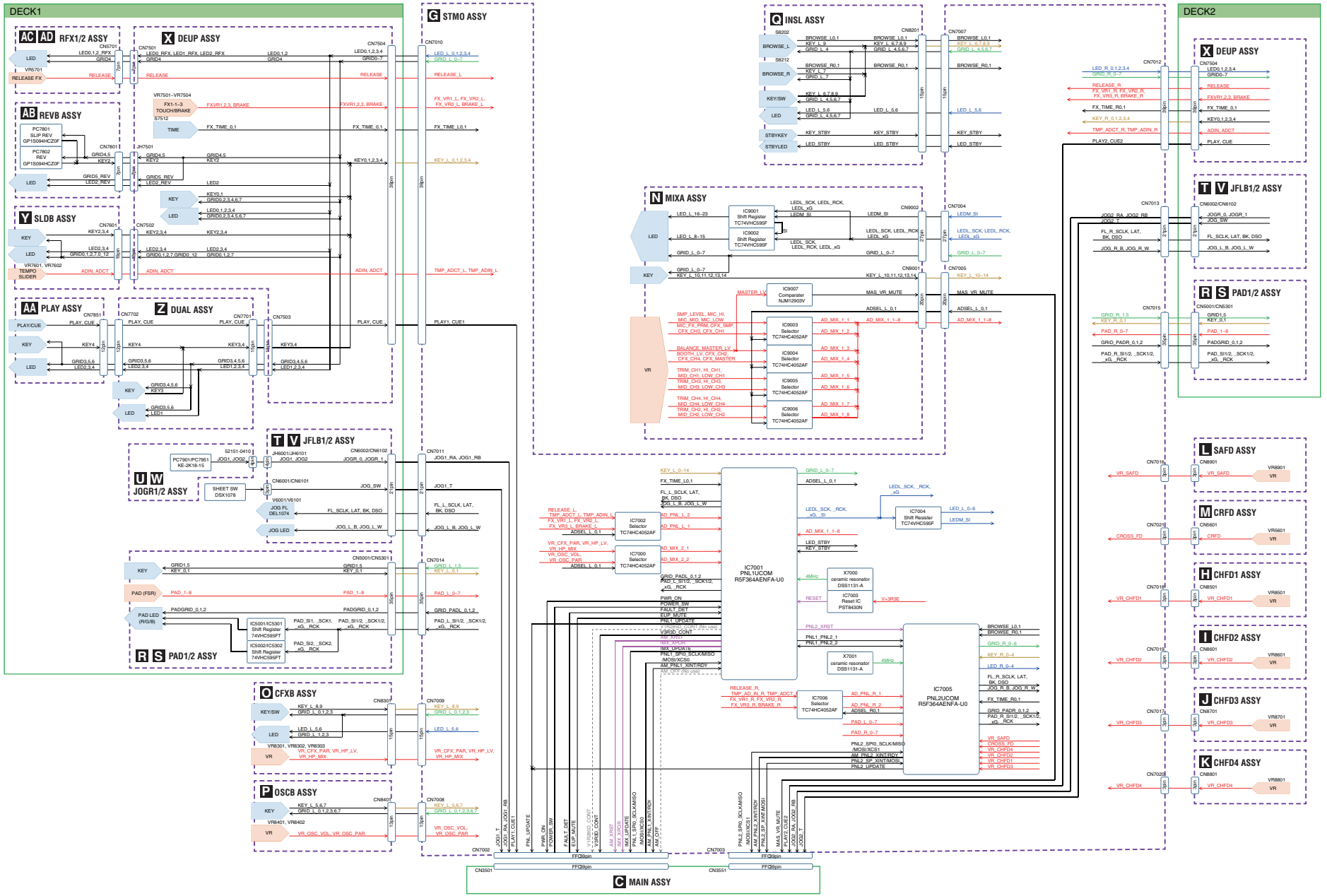


LCD BLOCK

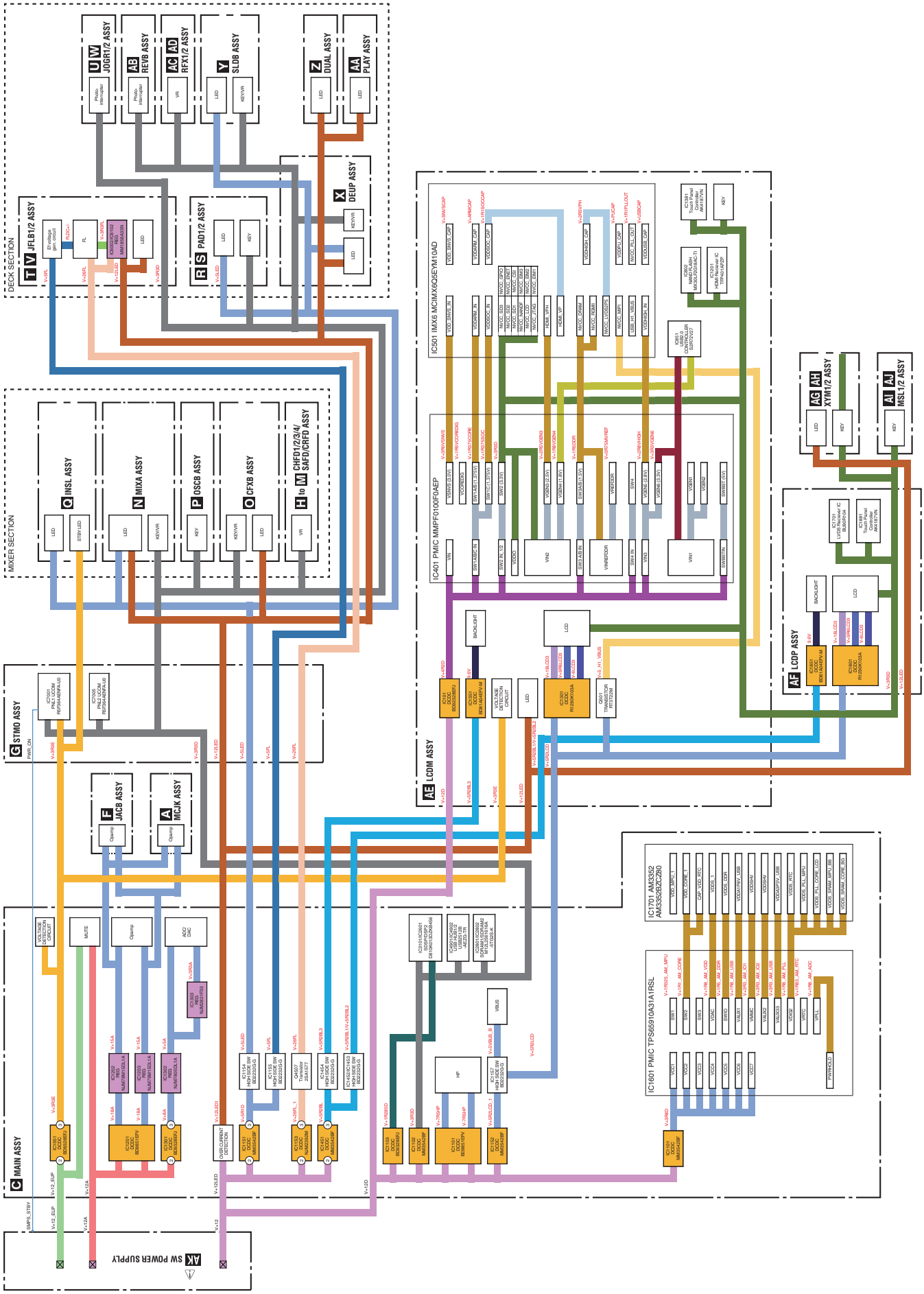

RESET
CLK
POWER
Analog
Digital
AI
AJ
MSL1/2 ASSY
VIEW, TRACK INFO, TIME MODE
KEY_IN x3
CN7401/CN7451
CN1851
TFT Module 7inch WVGA CWX4352
Touch Panel DSX1128-
IC1851 Back-Light BD81A04EFV-M
IC1801 LCD Power R1290K103A
IC1701 LVDS RX BU90R104
IC1881 Touch PNL Controller AK4187VN-TLB
CN1901
CN1881
CN1603
CN1602
CN1601
LCDBL_PWM (PWM3:20kHz)
LCD_LVDS
TPNL_XINT
TPNL_SCL/SDA
AF
LCDP ASSY (DECK1)
AG
AH
XYM1/2 ASSY
COMBO, SAMPLER
KEY_IN x2
LED x2
CN6901/CN6951
AE
LCDM ASSY (Mixer, LCD3)
CN1351
TFTModule 7inchWVGA CWX4352
TouchPanel DSX1128-
CN1401
CN1381
IC1351 Back-Light BD81A04EFV-M
IC1301 LCD Power R1290K103A
IC1201 DVI(HDMI) RX TFP401APZP
IC1381 Touch PNL Controller AK4187VN-TLB
LCD3BL_PWM (PWM4: 20kHz)
HDMI (DVI)
VIEW, 2DECK/ 4DECK
SINGLE, MULTI
CN1501
CN1531
LCD1BL_PWM
LCD1_LVDS0
TPNL1_XINT
TPNL1_SCL/SDA
KEY IN x5
LED x2
POWER
V+5R2LCD
V+3R3D
V+5R2BL1
V+12LED3
LCD2BL_PWM (PWM1:20kHz)
LCD2_LVDS1
TPNL2_XINT
TPNL2_SCL/SDA
V+5R2BL2
AF
LCDP ASSY (DECK2)
CN1601
LCD_PWM
LCD_LVDS
TPNL_XINT
TPNL_SCL/SDA
V+5R2LCD_PWR
V+3R3D
V+5R2BL1/2
V+12LED1/2
For Debug
USB A
UART
SD CARD
JTAG
LED, GPIO x6
KEY_IN, GPIO x14
LCD_PWM x3
IC501
IMX6 (LCD Controller)
MCIMX6Q5EYM10AD
Core 996MHz
LVDS0
HDMI
LVDS1
GPIO
I2C3
I2C1
PWM 1/3/4
USB A/uart /SD Card/JTAG
I2C2
POR
RTC_XIN
XIN
MMDC
NAND
EIM
eCSPI
USB OTG
X1001 32.768kHz X'tal CCS1807-
X1002 24MHz X'tal CCS1808-
IC601 1Gb DDR3-1600 W631GG6KB-12
IC602 1Gb DDR3-1600 W631GG6KB-12
CLK (532MHz)
x32
IC802 2Gb NAND FLASH S34ML02G200TFI00
x8
33MHz
100MHz
IC851 USB B Controller S2R72V27
24MHz
X851 24MHz X'tal CCS1808-
IC401 PMIC MMPF0100F0AEP
I2C
PMIC_SCL/SDA (400kHz)
PMIC_XINT
PMIC_ON_REQ
PMIC_STBY_REQ
RESETBMCU
IMX_XPOR
V+5R2LCD2
V+12D
V+5R2LCD3
V+5R2LCD1
V+12LED1
V+3R3EUP
EUP_IMX_XPOR
FAULT_DET
V+5VBUS_B
IMX_UPDATE
AM_IMX_XINT
/RDY
AM_IMX_SCLK
AM_IMX_MOSI
/MISOXCS0
OTG_D+/-
OTG_VBUS
B2_D+/-
B2_VBUS
CN1561
CN801
CN3401
CN4901
FPC 60pin
PH 10pin
C MAIN ASSY

PANEL BLOCK

RESET CLK POWER Analog Digital



4.3 POWER BLOCK DIAGRAM



4.4 MATRIX TABLE

LED assignment

• IMX6 Direct

SINGLE	MULTI
FX CTRL_L	SAMPLER_L
FX CTRL_R	SAMPLER_R

• PNL1 UCOM Direct

LED_STBY	JOG_L_B	JOG_L_W

• PNL1 UCOM Matrix

		GRID_L_0	GRID_L_1	GRID_L_2	GRID_L_3	GRID_L_4	GRID_L_5	GRID_L_6	GRID_L_7
IC7004 TC74VHC595F	LED_L_0	VINYL		M.TEMPO	GRID SLIDE	REL_FX_2	GRID ADJUST	REV	TAP
	LED_L_1	FX PARAM3			SLIP	REL_FX_1	DECK 3	DECK 1	
	LED_L_2	START	L-DOUBLE	L-HALF	MASTER	REL_FX_3	SYNC	QUANTIZE	REC
	LED_L_3	TEMPO UP	L-IN	L-OUT	CUE	FX PARAM1	CUE	CUE	PARAML
	LED_L_4	AUTOLOOP	TEMPO DOWN	T.RESET	PLAY	FX PARAM2	PLAY	PLAY	PARAMR
	LED_L_5		CFX1	CFX2	CFX3	USB_A	USB_B	MIC	
	LED_L_6		CFX4	CFX5	CFX6	USBA_LEFT	USBA_RIGHT	USBB_LEFT	USBB_RIGHT
	LED_L_7								
IC9002 TC74VHC595F	LED_L_8	CH3_CUE	CH1_CUE	CH2_CUE	CH4_CUE	MAS_CUE	SMP_CUE	OSC1	OSC3
	LED_L_9	CH3_LV_1	CH1_LV_1	CH2_LV_1	CH4_LV_1	MasL_LV_1	MasR_LV_1	OSC2	OSC4
	LED_L_10	CH3_LV_2	CH1_LV_2	CH2_LV_2	CH4_LV_2	MasL_LV_2	MasR_LV_2	SMP_USBA	SMP_USBB
	LED_L_11	CH3_LV_3	CH1_LV_3	CH2_LV_3	CH4_LV_3	MasL_LV_3	MasR_LV_3		
	LED_L_12	CH3_LV_4	CH1_LV_4	CH2_LV_4	CH4_LV_4	MasL_LV_4	MasR_LV_4		MIC_FX4
	LED_L_13	CH3_LV_5	CH1_LV_5	CH2_LV_5	CH4_LV_5	MasL_LV_5	MasR_LV_5	SMP_MASTER	MIC_FX1
	LED_L_14	CH3_LV_6	CH1_LV_6	CH2_LV_6	CH4_LV_6	MasL_LV_6	MasR_LV_6	SMP_QUANTIZE	MIC_FX2
	LED_L_15	CH3_LV_7	CH1_LV_7	CH2_LV_7	CH4_LV_7	MasL_LV_7	MasR_LV_7	CH4_LOAD	CH2_LOAD
IC9001 TC74VHC595F	LED_L_16	CH3_LV_8	CH1_LV_8	CH2_LV_8	CH4_LV_8	MasL_LV_8	MasR_LV_8	SMP_SYNC	MIC_FX3
	LED_L_17	CH3_LV_9	CH1_LV_9	CH2_LV_9	CH4_LV_9	MasL_LV_9	MasR_LV_9	SMP_FX1	SMP_FX2
	LED_L_18	CH3_LV_10	CH1_LV_10	CH2_LV_10	CH4_LV_10	MasL_LV_10	MasR_LV_10	CH4_FX1	CH4_FX2
	LED_L_19	CH3_LV_11	CH1_LV_11	CH2_LV_11	CH4_LV_11	MasL_LV_11	MasR_LV_11	MAS_FX1	MAS_FX2
	LED_L_20	CH3_LV_12	CH1_LV_12	CH2_LV_12	CH4_LV_12	MasL_LV_12	MasR_LV_12	CH2_FX2	CH2_FX1
	LED_L_21	CH3_LV_13	CH1_LV_13	CH2_LV_13	CH4_LV_13	MasL_LV_13	MasR_LV_13	CH1_FX1	CH1_FX2
	LED_L_22	CH3_LV_14	CH1_LV_14	CH2_LV_14	CH4_LV_14	MasL_LV_14	MasR_LV_14	CH1_LOAD	CH3_LOAD
	LED_L_23	CH3_LV_15	CH1_LV_15	CH2_LV_15	CH4_LV_15	MasL_LV_15	MasR_LV_15	CH3_FX1	CH3_FX2

• PNL1 UCOM Matrix

		GRID_PADL_0	GRID_PADL_1	GRID_PADL_2
IC5001/5301 74VHC595FT	PAD_SEG0	FSR4_L RED	FSR8_L RED	SAMPLER_L RED
		FSR4_L GREEN	FSR8_L GREEN	SAMPLER_L GREEN
	PAD_SEG2	FSR4_L BLUE	FSR8_L BLUE	SAMPLER_L BLUE
	PAD_SEG3	FSR1_L RED	FSR5_L RED	HOTCUE_L RED
	PAD_SEG4	FSR1_L GREEN	FSR5_L GREEN	HOTCUE_L GREEN
	PAD_SEG5	FSR1_L BLUE	FSR5_L BLUE	HOTCUE_L BLUE
	PAD_SEG6	FSR2_L RED	FSR6_L RED	PADFX_L RED
	PAD_SEG7	FSR2_L GREEN	FSR6_L GREEN	PADFX_L GREEN
IC5002/5302 74VHC595FT	PAD_SEG8	FSR2_L BLUE	FSR6_L BLUE	PADFX_L BLUE
	PAD_SEG9	FSR3_L RED	FSR7_L RED	SLICER_L RED
	PAD_SEG10	FSR3_L GREEN	FSR7_L GREEN	SLICER_L GREEN
	PAD_SEG11	FSR3_L BLUE	FSR7_L BLUE	SLICER_L BLUE

• PNL2 UCOM Single

JOG_R_B	JOG_R_W

• PNL2 UCOM Matrix

	GRID_R_0	GRID_R_1	GRID_R_2	GRID_R_3	GRID_R_4	GRID_R_5	GRID_R_6	GRID_R_7
LED_R_0	VINYL		M.TEMPO	GRID SLIDE	REL_FX_2	GRID ADJUST	REV	TAP
LED_R_1	FX PARAM3			SLIP	REL_FX_1	DECK 3	DECK 1	
LED_R_2	START	L-DOUBLE	L-HALF	MASTER	REL_FX_3	SYNC	QUANTIZE	REC
LED_R_3	TEMPO UP	L-IN	L-OUT	CUE	FX PARAM1	CUE	CUE	PARAML
LED_R_4	AUTOLOOP	TEMPO DOWN	T.RESET	PLAY	FX PARAM2	PLAY	PLAY	PARAMR

LED assignment

• PNL2 UCOM Matrix

		GRID_PADR_0	GRID_PADR_1	GRID_PADR_2
IC5001/5301 74VHC595FT	LED_SEG0	FSR4_R RED	FSR8_R RED	SAMPLER_R RED
	LED_SEG1	FSR4_R GREEN	FSR8_R GREEN	SAMPLER_R GREEN
	LED_SEG2	FSR4_R BLUE	FSR8_R BLUE	SAMPLER_R BLUE
	LED_SEG3	FSR1_R RED	FSR5_R RED	HOTCUE_R RED
	LED_SEG4	FSR1_R GREEN	FSR5_R GREEN	HOTCUE_R GREEN
	LED_SEG5	FSR1_R BLUE	FSR5_R BLUE	HOTCUE_R BLUE
	LED_SEG6	FSR2_R RED	FSR6_R RED	PADFX_R RED
	LED_SEG7	FSR2_R GREEN	FSR6_R GREEN	PADFX_R GREEN
IC5002/5302 74VHC595FT	LED_SEG8	FSR2_R BLUE	FSR6_R BLUE	PADFX_R BLUE
	LED_SEG9	FSR3_R RED	FSR7_R RED	SLICER_R RED
	LED_SEG10	FSR3_R GREEN	FSR7_R GREEN	SLICER_R GREEN
	LED_SEG11	FSR3_R BLUE	FSR7_R BLUE	SLICER_R BLUE

KEY assignment

• AM3352 Direct

PLAY1	CUE1	JOG1_T	JOG1_RA	JOG1_RB
PLAY2	CUE2	JOG2_T	JOG2_RA	JOG2_RB

• IMX6 Direct

LCD3_WAVEFORM	LCD2_PERFORM	LCD1_PERFORM
LCD3_VIDEO	LCD2_TRACKINFO	LCD1_TRACKINFO
LCD3_TMP	LCD2_TIMEMODE	LCD1_TIMEMODE
LCD3_SINGLE	LCD2_FXCTRL	LCD1_FXCTRL
LCD3_MULTI	LCD2_SAMPLER	LCD1_SAMPLER

• PNL1 UCOM Direct

POWER_SW	KEY_STBY	FX TIME_L0	FX TIME_L1

• PNL1 UCOM Matrix

	GRID_L_0	GRID_L_1	GRID_L_2	GRID_L_3
KEY_L_0	FX_ON_2_L	HOTCUE_L	VINYL_L	FX_MODE_L
KEY_L_1	FX_ON_3_L	SLICER_L	M.TEMPO_L	FX_ON_1_L
KEY_L_2	T.RESET_L	LOOP_OUT_L	REC_L	
KEY_L_3	A.LOOP_L	1/2X_L	START_L	SHIFT_L
KEY_L_4	CAPTURE_L	PAR_1_L	PAR_2_L	SYNC_L
KEY_L_5	CRFD ASSIGN CH3 (A)	CRFD ASSIGN CH1 (A)	CRFD ASSIGN CH2 (A)	CRFD ASSIGN CH4 (A)
KEY_L_6	CRFD ASSIGN CH3 (B)	CRFD ASSIGN CH1 (B)	CRFD ASSIGN CH2 (B)	CRFD ASSIGN CH4 (B)
KEY_L_7		EQ/ISO (ISO)	CHFD CURVE (Left)	CHFD CURVE (Right)
KEY_L_8		CFX1	CFX2	CFX3
KEY_L_9	HP MONO/ST (MONO)	CFX4	CFX5	CFX6
KEY_L_10	CH3_LOAD	CH1_LOAD	CH2_LOAD	CH4_LOAD
KEY_L_11	CH3_FX1	CH1_FX1	CH2_FX1	CH4_FX1
KEY_L_12	CH3_FX2	CH1_FX2	CH2_FX2	CH4_FX2
KEY_L_13	CH3_CUE	CH1_CUE	CH2_CUE	CH4_CUE
KEY_L_14	BACK_L	TAGTRK_L	SMP_FX1	SMP_FX2
	GRID_L_4	GRID_L_5	GRID_L_6	GRID_L_7
KEY_L_0	GRID_AD_L	SAMPLER_L	BEAT<_L	TAP_L
KEY_L_1	GRID_SLIDE_L	ROLL_L	BEAT>_L	
KEY_L_2	REV_L	SLIP_REV_L		
KEY_L_3	SLIP_L	DECK_1_L	DECK_3_L	LOOP_IN_L
KEY_L_4		QUANTIZE_L	MASTER_L	2X_L
KEY_L_5			CRFD CURVE (Left)	OSC ASSIGN (USBA)
KEY_L_6	MIC ON/OFF (OFF)	CH3 SELECT (LINE)	CRFD CURVE (Right)	OSC ASSIGN (USBB)
KEY_L_7	MIC ON/OFF (TALK OVER)	CH3 SELECT (USB)	USBB_L	BROWSE_PUSH_R
KEY_L_8	USBA_L	USBA_R	USBB_R	CH4 SELECT (LINE)
KEY_L_9	BROWSE_PUSH_L	CH1 SELECT (CD)	CH2 SELECT (CD)	CH4 SELECT (USB)
KEY_L_10	BACK_R	TAGTRK_R	SMP_SYNC	SMP_MASTER
KEY_L_11	MAS_FX1		MIC_FX1	MIC_FX3
KEY_L_12	MAS_FX2	SMP_QUANTIZE	MIC_FX2	MIC_FX4
KEY_L_13	MAS_CUE	SMP_CUE	OSC1	OSC3
KEY_L_14	SMP_USBA	SMP_USBB	OSC2	OSC4

• PNL2 UCOM Direct

FX TIME_R0	FX TIME_R1	BROWSE_L0
BROWSE_L1	BROWSE_R0	BROWSE_R1

• PNL2 UCOM Matrix

	GRID_R_0	GRID_R_1	GRID_R_2	GRID_R_3
KEY_R_0	FX_ON_2_R	HOTCUE_R	VINYL_R	FX_MODE_R
KEY_R_1	FX_ON_3_R	SLICER_R	M.TEMPO_R	FX_ON_1_R
KEY_R_2	T.RESET_R	LOOP_OUT_R	REC_R	
KEY_R_3	A.LOOP_R	1/2X_R	START_R	SHIFT_R
KEY_R_4	CAPTURE_R	PAR_1_R	PAR_2_R	SYNC_R
	GRID_R_4	GRID_R_5	GRID_R_6	GRID_R_7
KEY_R_0	GRID_AD_R	SAMPLER_R	BEAT<_R	TAP_R
KEY_R_1	GRID_SLIDE_R	ROLL_R	BEAT>_R	
KEY_R_2	REV_R	SLIP_REV_R		
KEY_R_3	SLIP_R	DECK_1_R	DECK_3_R	LOOP_IN_R
KEY_R_4		QUANTIZE_R	MASTER_R	2X_R

VR assignment

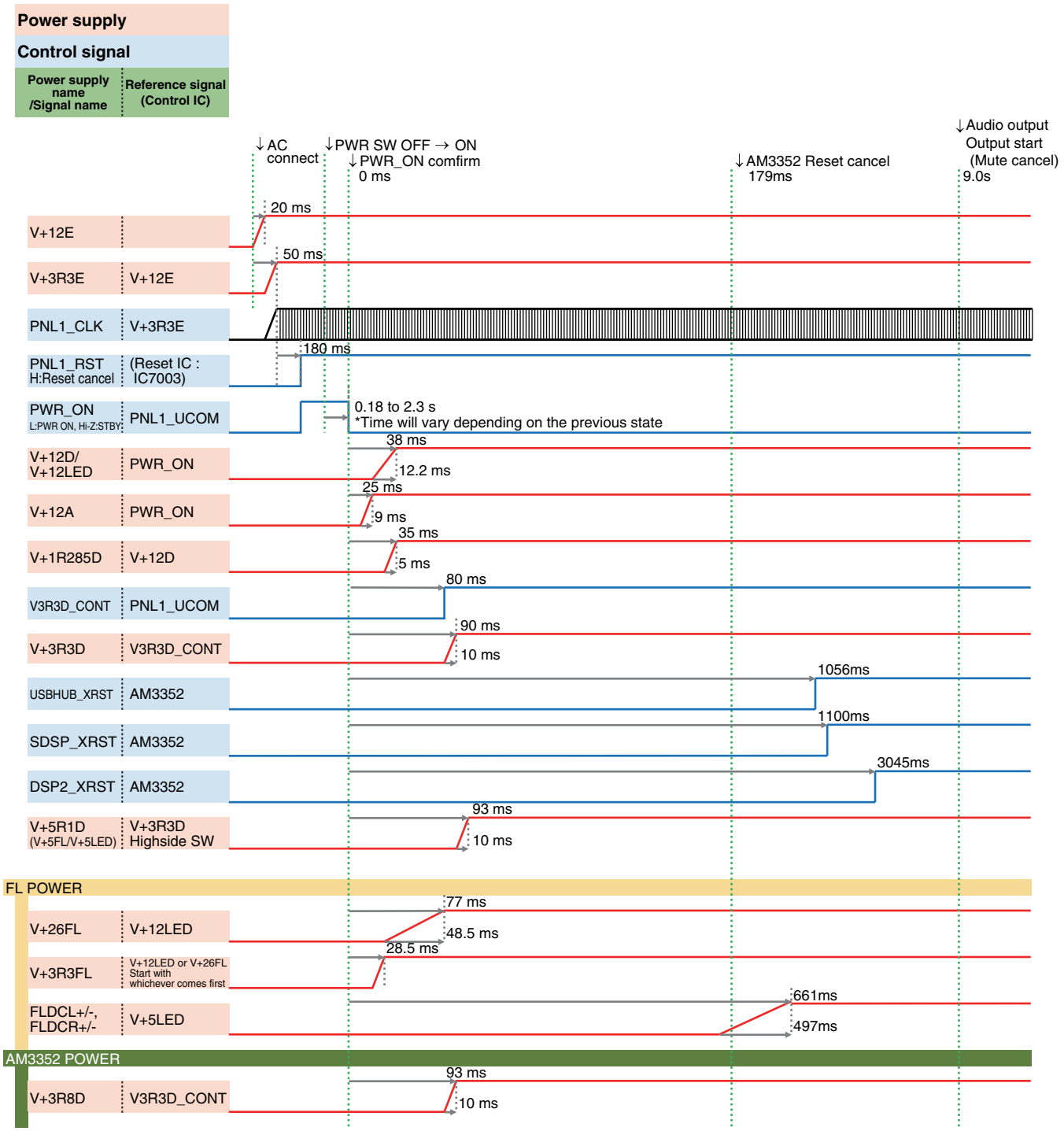
• PNL1 UCOM

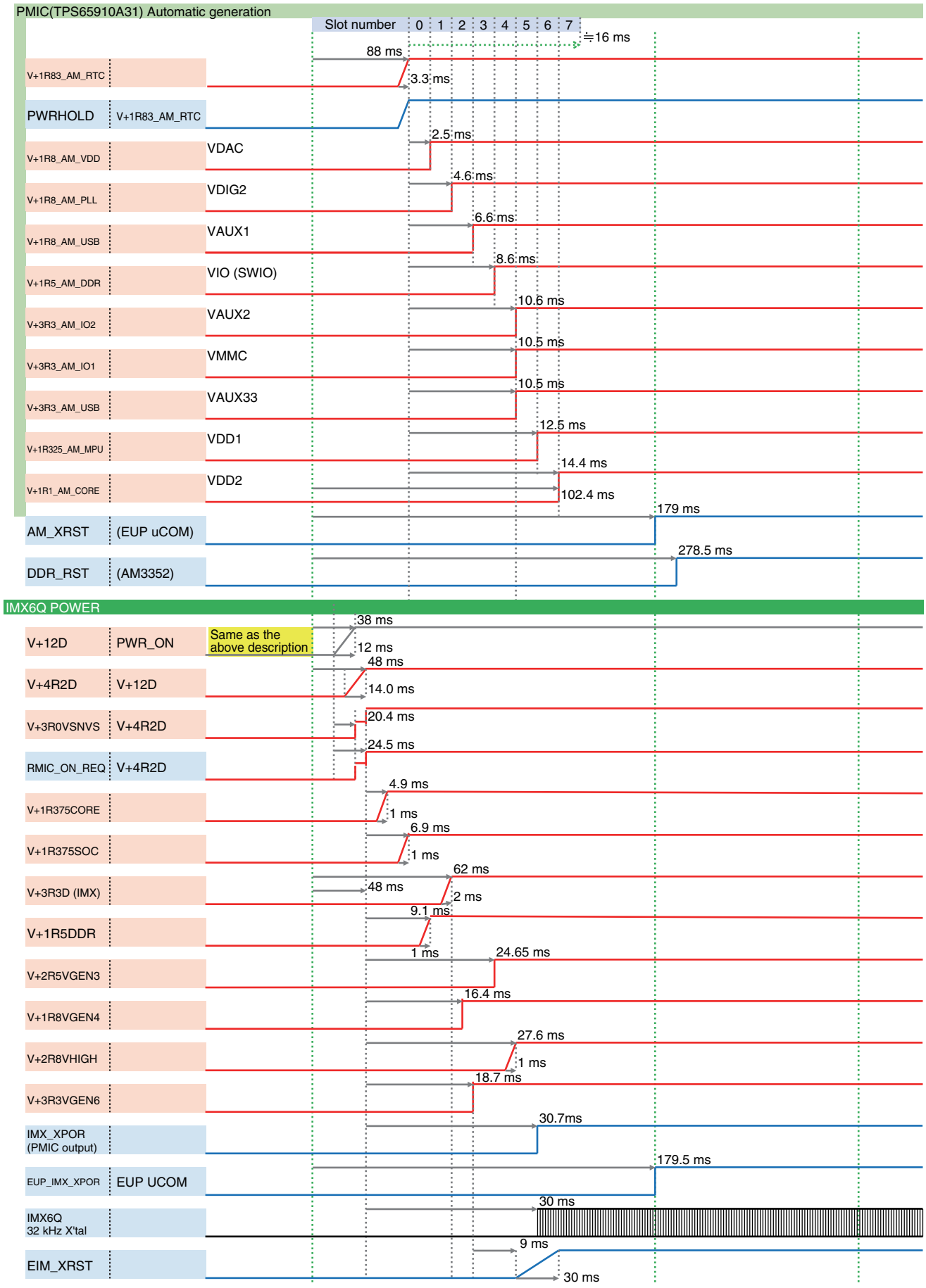
Pin No.	Signal Name	Route	VR point
86 pin	AD_PNLL_2	Multiplexer TC74HC4052AF	TMP_ADIN_L
			TMP_ADCT_L
			TMP_ADIN_L
			RELEASE_L
85 pin	AD_PNLL_1		BRAKE_L
			FX_VR1_L
			FX_VR2_L
			FX_VR3_L
87 pin	AD_MIX2_1	Multiplexer TC74HC4052AF	HP_VOL
			CFX_PAR
			HP_MIX
88 pin	AD_MIX2_2		
			OSC_VOL
			OSC_PAR
69 pin	AD_MIX1_1	Multiplexer TC74HC4052AF	MIC_LOW
			SMP_LEVEL
			MIC_MID
			MIC_HI
68 pin	AD_MIX1_2		CFX_CH3
			CFX_SMP
			MICFX_PRM
			CFX_CH1
70 pin	AD_MIX1_3	Multiplexer TC74HC4052AF	
			MASTER_LV
			BOOTH_LV
67 pin	AD_MIX1_4		CFX_CH4
			CFX_CH2
			BALANCE
			CFX_MASTER
71 pin	AD_MIX1_5	Multiplexer TC74HC4052AF	LOW_CH1
			TRIM_CH1
			MID_CH1
			HI_CH1
66 pin	AD_MIX1_6		MID_CH3
			HI_CH3
			TRIM_CH3
			LOW_CH3
72 pin	AD_MIX1_7	Multiplexer TC74HC4052AF	LOW_CH4
			TRIM_CH4
			MID_CH4
			HI_CH4
65 pin	AD_MIX1_8		MID_CH2
			HI_CH2
			TRIM_CH2
			LOW_CH2

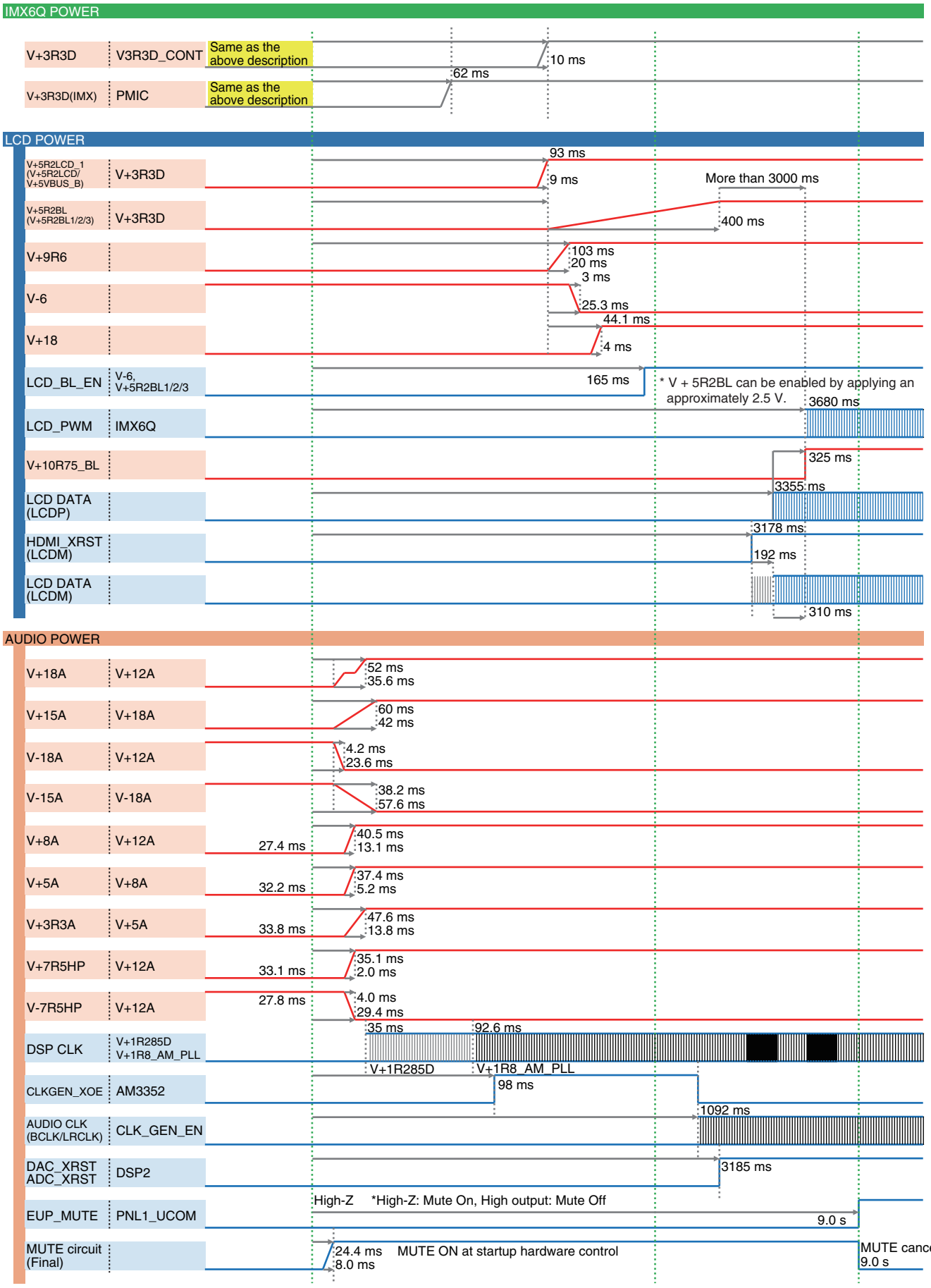
• PNL2 UCOM

Pin No.	Signal Name	Route	VR point
81 pin	PAD_L_0	AD port direct	PAD_L_0
88 pin	PAD_L_1	AD port direct	PAD_L_1
85 pin	PAD_L_2	AD port direct	PAD_L_2
83 pin	PAD_L_3	AD port direct	PAD_L_3
82 pin	PAD_L_4	AD port direct	PAD_L_4
87 pin	PAD_L_5	AD port direct	PAD_L_5
86 pin	PAD_L_6	AD port direct	PAD_L_6
84 pin	PAD_L_7	AD port direct	PAD_L_7
89 pin	PAD_R_0	AD port direct	PAD_R_0
97 pin	PAD_R_1	AD port direct	PAD_R_1
93 pin	PAD_R_2	AD port direct	PAD_R_2
91 pin	PAD_R_3	AD port direct	PAD_R_3
90 pin	PAD_R_4	AD port direct	PAD_R_4
95 pin	PAD_R_5	AD port direct	PAD_R_5
94 pin	PAD_R_6	AD port direct	PAD_R_6
92 pin	PAD_R_7	AD port direct	PAD_R_7
67 pin	CH2_FD	AD port direct	CH2_FD
68 pin	CH3_FD	AD port direct	CH3_FD
69 pin	CH1_FD	AD port direct	CH1_FD
70 pin	CH4_FD	AD port direct	CH4_FD
71 pin	CROSS_FADER	AD port direct	CROSS_FADER
72 pin	SAMPLER_VOL	AD port direct	SAMPLER_FD
65 pin	AD_PNLR_1	Multiplexer TC74HC4052AF	TMP_ADIN_R
			TMP_ADCT_R
			TMP_ADIN_R
			RELEASE_R
66 pin	AD_PNLR_2		BRAKE_R
			FX_VR1_R
			FX_VR2_R
			FX_VR3_R

5. DIAGNOSIS
5.1 POWER ON SEQUENCE




PMIC(TPS65910A31) Automatic generation
Slot number
0 1 2 3 4 5 6 7
≒16 ms
88 ms
V+1R83_AM_RTC
3.3 ms
PWRHOLD
V+1R83_AM_RTC
2.5 ms
V+1R8_AM_VDD
VDAC
4.6 ms
V+1R8_AM_PLL
VDIG2
6.6 ms
V+1R8_AM_USB
VAUX1
8.6 ms
V+1R5_AM_DDR
VIO (SWIO)
10.6 ms
V+3R3_AM_IO2
VAUX2
10.5 ms
V+3R3_AM_IO1
VMMC
10.5 ms
V+3R3_AM_USB
VAUX33
12.5 ms
V+1R325_AM_MPU
VDD1
14.4 ms
V+1R1_AM_CORE
VDD2
102.4 ms
179 ms
AM_XRST
(EUP uCOM)
278.5 ms
DDR_RST
(AM3352)
IMX6Q POWER
38 ms
V+12D
PWR_ON
Same as the above description
12 ms
48 ms
V+4R2D
V+12D
14.0 ms
20.4 ms
V+3R0VSNVS
V+4R2D
24.5 ms
RMIC_ON_REQ
V+4R2D
4.9 ms
V+1R375CORE
1 ms
6.9 ms
V+1R375SOC
1 ms
62 ms
48 ms
V+3R3D (IMX)
2 ms
9.1 ms
V+1R5DDR
1 ms
24.65 ms
V+2R5VGEN3
16.4 ms
V+1R8VGEN4
27.6 ms
V+2R8VHIGH
1 ms
18.7 ms
V+3R3VGEN6
30.7ms
IMX_XPOR
(PMIC output)
179.5 ms
EUP_IMX_XPOR
EUP UCOM
30 ms
IMX6Q
32 kHz X'tal
9 ms
EIM_XRST
30 ms


IMX6Q POWER
V+3R3D
V3R3D_CONT
Same as the above description
10 ms
62 ms
V+3R3D(IMX)
PMIC
Same as the above description
LCD POWER
V+5R2LCD_1 (V+5R2LCD/ V+5VBUS_B)
V+3R3D
93 ms
9 ms
More than 3000 ms
V+5R2BL (V+5R2BL1/2/3)
V+3R3D
400 ms
V+9R6
103 ms
20 ms
3 ms
V-6
25.3 ms
44.1 ms
V+18
4 ms
LCD_BL_EN
V-6, V+5R2BL1/2/3
165 ms
* V + 5R2BL can be enabled by applying an approximately 2.5 V.
LCD_PWM
IMX6Q
3680 ms
V+10R75_BL
325 ms
LCD DATA (LCDP)
3355 ms
HDMI_XRST (LCDM)
3178 ms
192 ms
LCD DATA (LCDM)
310 ms
AUDIO POWER
V+18A
V+12A
52 ms
35.6 ms
V+15A
V+18A
60 ms
42 ms
V-18A
V+12A
4.2 ms
23.6 ms
V-15A
V-18A
38.2 ms
57.6 ms
V+8A
V+12A
27.4 ms
40.5 ms
13.1 ms
V+5A
V+8A
32.2 ms
37.4 ms
5.2 ms
V+3R3A
V+5A
33.8 ms
47.6 ms
13.8 ms
V+7R5HP
V+12A
33.1 ms
35.1 ms
2.0 ms
V-7R5HP
V+12A
27.8 ms
4.0 ms
29.4 ms
DSP CLK
V+1R285D V+1R8_AM_PLL
35 ms
92.6 ms
V+1R285D
V+1R8_AM_PLL
CLKGEN_XOE
AM3352
98 ms
AUDIO CLK (BCLK/LRCLK)
CLK_GEN_EN
1092 ms
DAC_XRST ADC_XRST
DSP2
3185 ms
EUP_MUTE
PNL1_UCOM
High-Z
*High-Z: Mute On, High output: Mute Off
9.0 s
MUTE circuit (Final)
24.4 ms
8.0 ms
MUTE ON at startup hardware control
MUTE cancel
9.0 s

5 6 7 8

5.2 TROUBLESHOOTING

About measurement point in the flowcharts

Only the representative points to be checked are indicated as the points to be checked for the CH audio inputs and the operating elements on the left and right decks, which have the same function (circuits). Read the indicated points as the points corresponding to the part actually in failure. Refer to " ■ VOLTAGES" .

List of problems

Defect of the power lines
Defect of the boot and communication lines
- Neither LCD nor LED of the control elements side is displayed at startup.
- The LCD is displayed but the LED of the control element side is not lit at startup.
- The LCD is not displayed but the LED of the control element side is lit at startup.
- It is unable to update the firmware.
- Updating the firmware is failed.
- This unit is not recognized by the PC/MAC connected to USB B terminal and it is unable to control.
- LCD is not displayed.
- LCD display is not normal.
- The brightness of the LCD backlight does not adjust.
- LCD backlight does not light up.
- Touch panel does not work.
- The position of the touch panel is shifted.

Display-Related Problems
- The LEDs do not light.
- No or abnormal FL display indications

Operation-Related Problems
- The buttons or slide switches do not function.
- The rotary VRs, slide VRs, or pads do not function.
- The rotary selectors do not function.
- Jog dials not controllable

Audio-Related Problems
- No audio signals are output from the MASTER 1/ MASTER 2 connectors.
- No audio signals are output from the BOOTH connector.
- No audio signals are output from the PHONE connectors.
- Can not be USB audio input and output.
- No audio signals from the CH audio input connectors are available.
- No audio signals from the MIC connectors are available.

Before implementing the troubleshooting, confirm if "the cables of each connectors is connected normally" .

Confirm the following items before replacing the microcomputer.

When the PNL1 UCOM (IC7001) is suspected to be defective. → Refer to "**Plug in the power cable → PNL1 start**" , and confirm if the power supply voltage, oscillation of the crystal and release of the reset is operated normally. STMO Assy : IC7001, IC7003, X7000

Defect of the power lines

There might be risks that the temperature of defect parts rises and the circuits supplied that power will break down, when the power is continued to be supplied because the power is forced to be supplied even when the power circuit is abnormal by the following diagnosis. Therefore diagnose with great care, and remove the power cord in seconds as it shuld be stopped the state that the power is forced to be supplied.

Confirmation of the power lines

Confirm if each power supply is not short-circuited to GND lines before confirming the power lines.

It is not short-circuited.

Remove the power cord from the unit, and connect the power cord again after a while.

Confirmation of the SMPS block

Is the power voltage of V+12E (SMPS output) 12 V?

The voltage is not 12 V. → As the SMPS and wire cable is supposed to be defective, confirm the following power supply and cable.
SMPS: DWR1548
Cables and connectors connected to the SMPS

The voltage is 12 V.

Is the power voltage of V+3R3E (IC1051 output) 3.3 V?

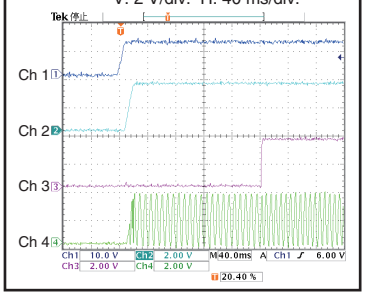
The voltage is not 3.3 V. → IC1051 or the device connected to IC1051 is defective.
Confirm the connecting point of V+3R3E.

The voltage is 3.3 V.

Confirm the WAKE UP LED after turing ON the power SW.

● **Plug in the power cable → PNL1 start**

1-1 Ch 1: TP1003 (V+12E)
V: 10 V/div. H: 40 ms/div.
9-1 Ch 2: CN7000_ pin 1 (V+3R3E)
9-2 Ch 3: CN7000_ pin 3 (RESET)
9-3 Ch 4: X7000_ pin 3 (XOUT)
V: 2 V/div. H: 40 ms/div.



Confirming detection of the power line failure

Confirm the WAKE UP LED.

Lit or light off (not flashing in red)

Confirm the voltage of F-DET terminal.

3.3 V

Confirm the power suplly that is not detected by the voltage monitoring circuit.
Refer “10.62 VOLTAGES” and confirm if the voltage value is within the normal range.

flashing in red

0 V

Remove the AC cord from the unit, and then remove R3527 (0 Ω) in the MAIN Assy.
Connect the AC cord again, and turn ON the power switch while monitoring each power supply.
[Note] Unplug the power cord in sconds as the monitoring circuit is no effect state.

Confirm each power supply voltages.
Confirm the circuit or power supply IC where the abnormal voltage is supplied.

Mount R3527 (0 Ω) of the MAIN Assy.
(The voltage monitoring function is effective.)
Confirm that the unit functions normally.

Defect of the boot and communication lines

It is unable to boot up.

Neither LCD nor LED of the control elements side is displayed at startup.

Confirm the following items
“Confirmation of the power lines”
“Confirmation of PNL1 UCOM”

Confirm the communication line of PNL1 I0_**** of PNL1 UCOM when there is no problem in each items.
(Refer to ” **AM3352/PNL1/2 Communication**”)
(MAIN Assy : AM3352 (IC1701) ⇒ STMO Assy : PNL1 UCOM (IC7001))
When there is no problem, replace PNL1 UCOM or MAIN Assy because the PNL1 UCOM or AM3352 is defective.
* When it is difficult to decide which PNL UCOM is defective or the commnunication CLK signals do not operate, the AM332 is likely to be defective.

It is unable to boot up.

The LCD is displayed but the LED of the control element side is not lit at startup.

The LCD is not displayed but the LED of the control element side is lit at startup.

Only the LCD is not displayed at startup.

It is not displayed.

Failure of LCD section
Refer to the following items
“Confirmation of the LCD backlight”
“Confirmation of the LCD module / peripheral circuits”

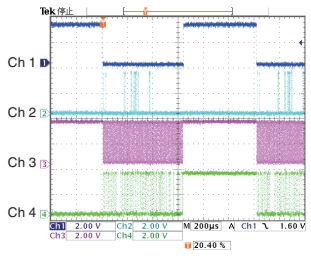
It is displayed.

Confirm the LED power supply of the control button side.
Confirm the peripheral circuits of the IC and connecting points of the power supply.
MAIN Assy : IC1151, IC1154, IC1155

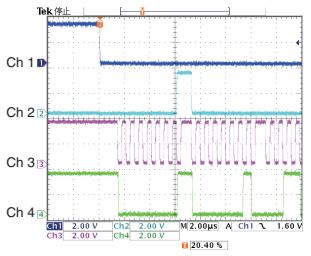
● **AM3352/PNL1/2 Communication**

1-2 Ch 1: TP3515 (CN3501_ pin 17) (AM_PNL1_SPI1_XCS0)
1-3 Ch 2: TP3516 (CN3501_ pin 15) (AM_PNL1_SPI1_MOSI)
1-4 Ch 3: TP3517 (CN3501_ pin 13) (AM_PNL1_SPI1_SCLK)
1-5 Ch 4: TP3518 (CN3501_ pin 11) (AM_PNL1_SPI1_MISO)

V: 2 V/div. H: 200 us/div.



V: 2 V/div. H: 2 us/div.



It is unable to update.

It is unable to update the firmware.

Dose the LCD display the Update Mode when the unit is booted in the Update Mode?

No

Confirm the SYNC/SHIFT key (SW) referring to the item of “Diagnosis of 6. Service Mode” and “Elements check mode” .
If the key (SW) is normal, replace the PNL1 UCOM (IC7001) or MAIN Assy as they are supposed to be defective.

Yes

It is unable to update.

Updating the firmware is failed.

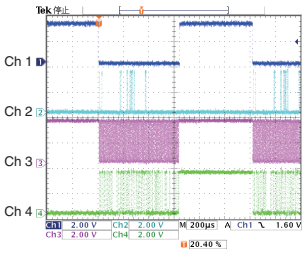
The program of the UCOM is defective, and Flash ROM or PNL1 UCOM is defective, or it is unable to update by the defect of the communication line.

Confirm the LCD display in updating.
The upper staus bar displays the update state of Flash ROM (IC802) in the LCDM Assy.
The lower staus bar displays the update state of Flash ROM (IC2006) in the MAIN Assy and PNL1/PNL2 UCOM (IC7001/IC7005) in the STMO Assy.
When the status bar stops along the way, rewriting the corresponding Flash ROM or PNL UCOM is failed.

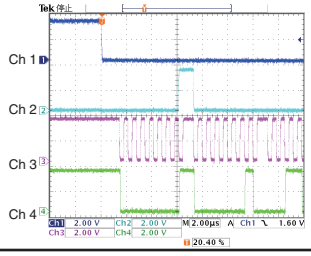
● **AM3352/PNL1/2 Communication**

1-2 Ch 1: TP3515 (CN3501_ pin 17) (AM_PNL1_SPI1_XCS0)
1-3 Ch 2: TP3516 (CN3501_ pin 15) (AM_PNL1_SPI1_MOSI)
1-4 Ch 3: TP3517 (CN3501_ pin 13) (AM_PNL1_SPI1_SCLK)
1-5 Ch 4: TP3518 (CN3501_ pin 11) (AM_PNL1_SPI1_MISO)

V: 2 V/div. H: 200 us/div.



V: 2 V/div. H: 2 us/div.



Dose the upper status bar stop along the way?

Yes

Confirm the peripheral parts of the Flash ROM (IC802) in the LCDM Assy.
If there is no ploblem, replace the LCDM Assy.

No

Dose the lower status bar stop before 90%?

Yes

Confirm the peripheral parts of the Flash ROM (IC2006) in the MAIN Assy.
If there is no ploblem, replace the MAIN Assy.

No

When the lower status bar stop after 90%, rewriting the PNL1/PNL2 UCOM is failed.
■ PNL1 UCOM
Confirm the PNL1_SPI0_**** communication line (MAIN Assy IC1701 to STMO Assy IC7001).
■ PNL2 UCOM
Confirm the PNL2_SPI0_**** communication line (MAIN Assy IC1701 to STMO Assy IC7005).
If there is no ploblem, replace the PNL UCOM.
(Refer to ” **AM3352/PNL1/2 Communication**”)

Confirmation of the USB B terminal

This unit is not recognized by the PC/MAC connected to USB B terminal and it is unable to control.

■ Confirm if the following items displays the DDJ-RZX by the Windows 7 device manager.
* sound, video and controller of the game
* network adapter

■ Confirm if the following items displays the DDJ-RZX by the MAC system configuration setting.
* sound
* network

Is it not displayed at all items?

Yes

USB communiction defect to USB HUB (IC4902 and IC4952) in the MAIN Assy.
Confirm the path from JA4901/JA4902 to IC4902/IC4952 and the peripheral circuits of IC4902/IC4952 in the MAIN Assy.
If there is no ploblem, replace the MAIN Assy.

No

Is the unit recognized as the network adapter/netwok?

No

USB communiction defect to IMX6 (IC501) and USB CTRL (IC851) in the LCDM Assy.
Confirm the path from USB HUB (IC4902 and IC4952) in the MAIN Assy to IC501 and IC851 in the LCDM Assy.
If there is no ploblem, replace the MAIN Assy or LCDM Assy.

Yes

Yes

Is the unit recognized as the controller / sound of sound, video and games?

No → USB communication failure with IC1701 in the MAIN Assy
Confirm the path from USB HUB (IC4902 and IC4952) to IC1701 in the MAIN Assy.
If there is no defect, replace the MAIN Assy.

Yes

Review the application setting used in PC/MAC. (This unit operates normally.)

Confirmation of the LCD

LCD is not displayed.
LCD display is not normal.

Do the device except the LCD operate normally?

No → When the device except the LCD do not operate normally, refer to the item "It is unable to boot up"

Yes

Do all three LCD modules display no screen?

Yes → Confirm the power lines. Refer to the items "Confirmation of the power lines" .
If there is no defect, replace the LCDM Assy.

No

Refer to "Confirmation of the backlight" .
Confirm the power line of the LCD module.
Refer to also "10.61 WAVEFORMS" ,
and confirm the voltage of pin3, 4, 5, 21, 25, 58 and 59 of CN1401 and CN1901 in LCDM and LCDP Assy.

Are each power supply voltages normal?

No → Confirm the peripheral circuits of IC1301 and IC1801 in LCDM Assy and LCDP Assy.
Confirm also the state removing the LCD module.
When the voltage is normal by removing the LCD module, replace it.
When there is no trouble, IC1301 and IC1801 are supposed to be defective, and replace the LCDM Assy and LCDP Assy.

Yes

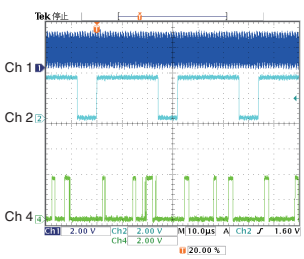
Confirm the RGB signal input to the LCD module.
Refer to "**LCD RGB Operation**" ,
and confirm if each signal is input normally.

LCDM Assy

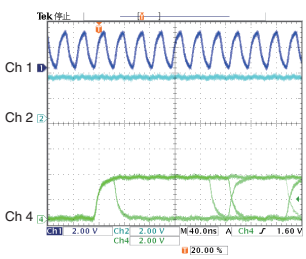
● **LCD RGB Operation**

2-1 Ch 1: TP1420 (DCLK)
2-2 Ch 2: CN1401_ pin 32 (DE)
Ch 3:
2-3 Ch 4: CN1401_ pin 34 (DATA (B7))

V: 2 V/div. H: 10us/div.



V: 2 V/div. H: 40 ns/div.

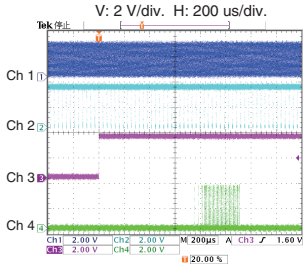


LCDP Assy

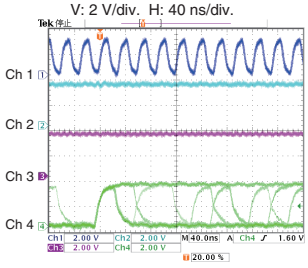
● **LCD RGB Operation**

3-1 Ch 1: TP1920 (CN1901_pin 33) (DCLK)
3-2 Ch 2: TP1918 (CN1901_pin 30) (VSD)
3-3 Ch 3: TP1919 (CN1901_pin 31) (HSD)
3-4 Ch 4: CN1901_pin 34 (DATA (B7))

V: 2 V/div. H: 200 us/div.

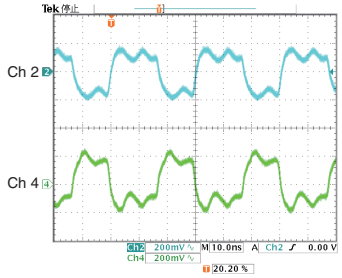


V: 2 V/div. H: 40 ns/div.



● **LVDS**

Ch 1:
3-5 Ch 2: TP1618 (LVDS_CLKP)
Ch 3:
3-6 Ch 4: TP1617 (LVDS_CLKN)
V: 200 mV/div. H: 10 ns/div.



*: oscilloscope is set to "Coupling AC"

Is the RGB waveform normal?
Yes → As the LCD module is supposed to be defective, replace it.
No →
■ LCDM Assy (LCD of the MIXER section)
Replace the LCDM Assy
■ LCDP Assy
Confirm the path from IC1701 to IC1901/IC1902/IC1903.
When the signal does not exist in this line, confirm the path from IC1501 to CN1501/CN1531 to 1701 of the LCD_LVDS additionally
Refer to "**LVDS**" as to waveforms.

Is the signal output to the LVDS path?
Yes → When the signal is interrupted at the path from IC1701 to IC1901-IC1903, confirm the peripheral circuits of the IC.
If there is no problem, replace the corresponding IC among IC1701 and IC1901 to IC1903.
No →
Replace the LCDM Assy as IC1501 or the peripheral circuits are supposed to be defective.

LCD Module : CWX4352
LCDM Assy : DWX3828
LCDP Assy : DWX3791

Confirmation the LCD backlight

The brightness of the LCD backlight does not adjust.
LCD backlight does not light up.

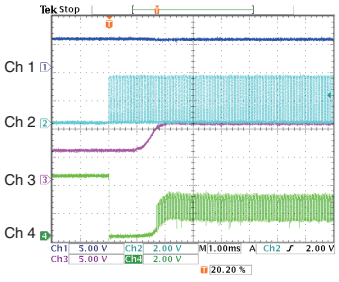
When the LCD BRIGHTNESS is changed to "1" - "4" from the UTILITY menu, confirm that the Duty (ratio of High/Low time) of the following waveforms vary.
Or confirm if the following waveforms are normal.
LCDM Assy : CN1351 2pin, IC1351 8pin
LCDP Assy : CN1851 2pin, IC1851 8pin
Refer to "**LCD Backlight**" as to waveforms.

Note: The waveform duty does not vary when the LCD BRIGHTNESS is "5" , And decide the judge by not the waveform duty variation but the waveform normality, as it is unable to change from the UTILITY such as the occasion when the LCD of MIXER section is not displayed. The ratio of the "Low" of waveform increases when the LCD BRIGHTNESS value is rather small.

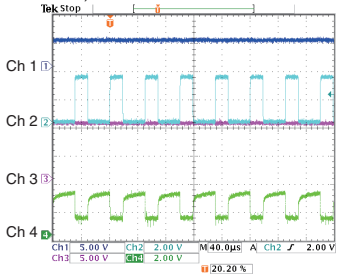
● **LCD Backlight**

3-7 Ch 1: TP1610 (V+5R2BL1/2)
3-8 Ch 2: TP1625 (BL_PWM)
3-9 Ch 3: TP1859 (CN1851_pin 1)
3-10 Ch 4: TP1860 (CN1851_pin 2) (LED1/LED2)

Ch1, Ch3 V: 5 V/div. H: 1 ms/div.
Ch2, Ch4 V: 2 V/div. H: 1 ms/div.



Ch1, Ch3 V: 5 V/div. H: 40 us/div.
Ch2, Ch4 V: 2 V/div. H: 40 us/div.



Does the duty of the waveform of pin 2 of CN1351and pin 2 of CN1851 vary?/ Are the waveforms normal?
varies normal → The circuits operates normal until just before the LCD module.
Replace the LCD module as it is supposed to be defective.
Not vary abnormal →

Does the duty of the waveform of pin 8 of CN1351and pin 8 of CN1851 vary?/ Are the waveforms normal?
varies normal → As the output waveforms of IC1351 and IC1851 are not normal, confirm the peripheral circuits of that ICs.
And confirm if the input power voltage (V+5R2BL1/2/3) of this IC is normal.
If there is no problem, replace the LCDM and LCDP Assys as IC1351 and IC1851 are supposed to be defective.
Not vary abnormal →

Confirm the connecting path of pin 8 of IC1351 and pin 8 of 1851 (PWM signal).
If there is no problem, replace the LCDM and LCDP Assys.

LCD Module : CWX4352
LCDM Assy : DWX3828
LCDP Assy : DWX3791

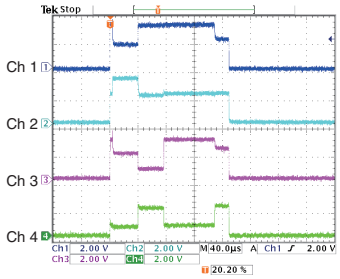
Confirmation the touch panel

Touch panel does not work.
The position of the touch panel is shifted.

● **Touch Panel**

3-11 Ch 1: TP1881 (CN1881_pin 1) (YT)
3-12 Ch 2: TP1882 (CN1881_pin 2) (XR)
3-13 Ch 3: TP1881 (CN1881_pin 3) (YB)
3-14 Ch 4: TP1881 (CN1881_pin 4) (XL)

V: 2 V/div. H: 40 us/div.



*: During the panel near the center touch

Make a confirmation of the touch panel in "6. SERVICE MODE" .
Confirm as following when it is unable to implement normaly or confirming is NG in the test mode.
Confirm if the waveform of pin1 to pin4 of CN1381 and CN881 changes when operating the touch panel.
Refer to "**Touch Panel**" as to waveforms.

Is the waveform changed?
No → As the touch panel module is supposed to be defective, replace it.
Yes

Confirm the communication path of TPNL_XINT/TPNL_SCL/SDA (IC1381 and IC1831 to IC1501).

Is the waveform output when checking?
Yes → (As the touch panel module is supposed to be defective, replace it.)
No

As the IC1381 and IC1881 are supposed to be defective, replace the LCDM Assy and LCDP Assy.

Touch panel Module : DSX1128
LCDM Assy : DWX3828
LCDP Assy : DWX3791

Display-Related Problems

The LEDs do not light.

Is there any LED that is lit?
No → Replacement of V+5LED High Side SW (IC1154).

Identify a failure location, referring to "6.1 SERVICE MODE" .
Yes

Are indications of multiple LEDs abnormal?
No → Replacement of the LED of failure points
Yes

Yes

Are indications of all LEDs controlled with the same GRID signal abnormal? (See “4.4 MATRIX TABLE.”)

No

Are indications of all LEDs controlled with the same SEG signal abnormal? (See “4.4 MATRIX TABLE.”)

No → Replacement of the LED of failure points

Yes

Is the SEG signal in question normal? “ 8-4 ”

No → Replacement of the LED control microcomputer (IC6001 or IC2201or IC2601) or LED low-side drive circuit.

Yes → Replacement of the LED low-side drive circuit.

Yes

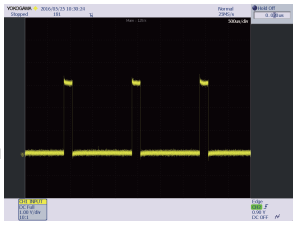
Is the GRID signal in question normal? “ 8-3 ”

No → Replacement of the LED control microcomputer (IC6001 or IC2201or IC2601).

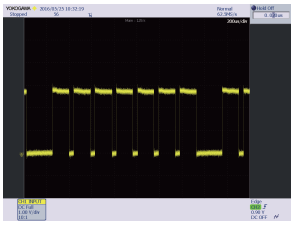
Yes → Replacement of the LED high-side drive circuit.

8-3 Ch 1: CN7504_ pin 22 (GRID0)

V: 1 V/div. H: 500 us/div.



8-4 Ch 1: CN7504_ pin 21
(LED0: ALL LED ON)
V: 1 V/div. H: 200 us/div.



No or abnormal FL display indications

Is there any LED that is lit?

No → Replace the IC1151.

Yes

Are FL indications of the Jog dials on the left and right decks abnormal?

No

Is the FLDC voltage normal? “ 6-5 6-6 ”

No → Replacement of the FLDC power supply circuit or FL tube.

Yes

Is the V+3R3FL voltage normal? [Point to be checked: 43, etc.]

No → Replacement of the regulator (IC6002) or FL tube.

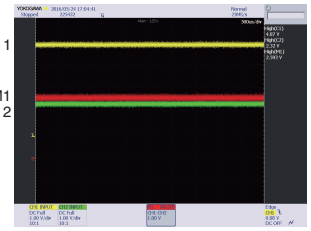
Yes

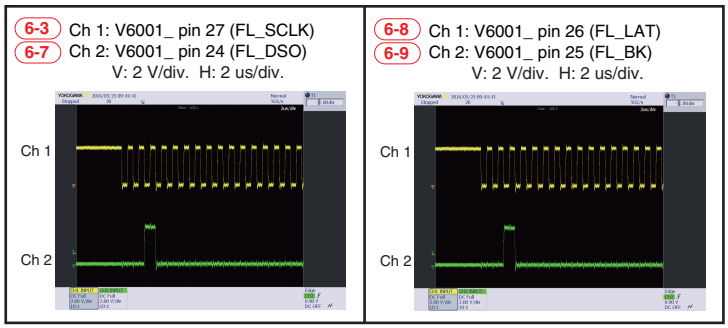
Is the FL control signal normal? “ 6-3 6-7 6-8 6-9 ”

No → Replacement of the FL control microcomputer. If the defective microcomputer is DECK1 side, replace IC7001. And if the defective one is DECK3 side, replace IC7005.

Yes → Replacement of the FL (V6001, V6101).

6-5 Ch 1: V6001_ pin 1 (FLDC+)
6-6 Ch 2: V6001_ pin 38 (FLDC-)
M1: The difference of Ch 1 and Ch 2 (Ef)
V: 1 V/div. H: 500 us/div.





Yes

Is the V+26FL voltage normal?
[Points to be checked: 8]

No → Replacement of the Q4507.
If the defect is not still recovered,
replace IC1153.

Yes → Replace the V+5FL High Side SW
(IC1155).

Operation-Related Problems

The buttons or slide switches do not function.

Identify a failure location, referring to
"6.1 SERVICE MODE."

Are multiple buttons/switches
inoperable?

No → Replace the inoperable operating
element.

Yes

Are all operating elements
controlled with the same GRID or
SEG signal abnormal?
(See "4.4 MATRIX TABLE.")

No → Replace the inoperable operating
element.

Yes → Replace the element processing
microcomputer (IC7001 or IC7005).

The rotary VRs, slide VRs, or pads do not
function.

Identify a failure location, referring to
"6.1 SERVICE MODE."

Are multiple buttons/switches
inoperable?

No → Replace the inoperable operating element.

Yes

Yes

Are all VRs whose data are to be input to the same microcomputer inoperable? (See "4.4 MATRIX TABLE.")

No

Are all VRs whose data are to be input to the same multiplexer IC (IC7000, 7002, 7006, 9003, 9004, 9005, 9006) inoperable? (See "4.4 MATRIX TABLE.")

No

Replace the inoperable operating element.

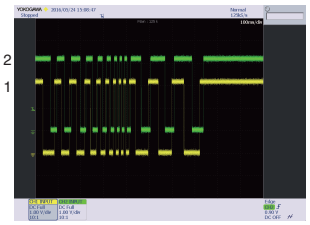
Yes

Replacement of the AD processing microcomputer (IC7001 or IC7005) or Refer to "10.62 VOLTAGES" , and confirm the V+3R3D/V+3R3E.

Yes

Replace the appropriate switching IC.

8-1 Ch 1: CN7504_ pin 4 (FX_TIME_0)
8-2 Ch 2: CN7504_ pin 6 (FX_TIME_1)
V: 1 V/div. H: 100 ms/div.



The rotary selectors* are inoperable.

*The rotary selectors refer to those in the browser sections and the FX TIME controls.

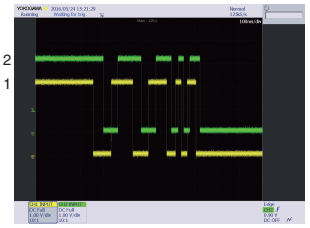
Are rotational operations without effect?

No

If pressing of a rotary selector has no effect, go to the flowchart "The buttons or slide switches do not function."

Yes

9-4 Ch 1: CN8201_ pin 2 (BROWSE_R0)
9-5 Ch 2: CN8201_ pin 1 (BROWSE_R1)
V: 1 V/div. H: 100 ms/div.



Is turn signal* normal? " 8-1 8-2 or 9-4 9-5 "

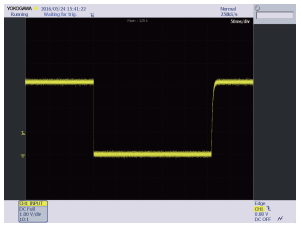
No

Element processing microcomputer is defective. (BROWSE, FX TIME_R: IC705, FX TIME_L: IC7001) or rotary selector is defective.

*BROWS_L/BROWS_R or FX TIME_L/FX TIME_R

Yes

6-4 Ch 1: CN6002_ pin 7 (JOG_SW)
V: 1 V/div. H: 50 ms/div.



Element processing microcomputer is defective. (BROWSE, FX TIME_R: IC705, FX TIME_L: IC7001) is defective.

Jog dials not controllable

Are rotational operations without effect?

No

Are the JOG_TOUCH signals normal? " 6-4 "

No

Replacement of the SHEET SW or element processing microcomputer (IC1701).

Yes

Replacement of the element processing microcomputer (IC1701).

Yes

Are the JOG0 and JOG1 signals normal? " 6-1 6-2 "

No

Replacement of the element processing microcomputer (IC1701) or Photointerrupter (PC7901, PC7951)

Yes

Replacement of the element processing microcomputer (IC1701).

6-1 Ch 1: JH6001_ pin 2 (JOGR_0)
6-2 Ch 2: JH6001_ pin 1 (JOGR_1)
V: 1 V/div. H: 500 us/div.

Audio-Related Problems

[Prior Confirmation]

- Check that the displays and operations are normal.
  Check that the displays and operating elements function properly, referring to "6.1 SERVICE MODE."
  If there is any problem, repair the defective part. (See the flowcharts “Display-Related Problems” and “Operation-Related Problems.”)

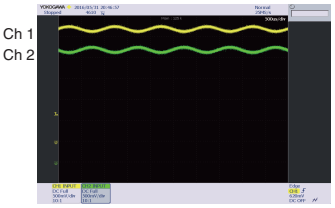
Confirmation the MASTER1/MASTER2

No audio signals are output from the MASTER 1/ MASTER 2 connectors.

→ Input an audio signal to any of the input connectors. Or have an audio signal output by performing OSC SAMPLER [SINE], etc.

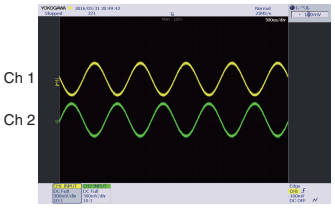
1-6 MASTER OUT

Ch 1: IC3701_ pin 36 (MDAC_OUT_L+)
Ch 2: IC3701_ pin 35 (MDAC_OUT_L-)
V: 500 mV/div. H: 500 us/div.



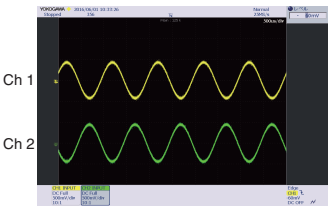
1-7 MASTER OUT

Ch 1: CN3701_ pin 29 (MASTER_L+)
Ch 2: CN3701_ pin 31 (MASTER_L-)
V: 500 mV/div. H: 500 us/div.



7-1 MASTER OUT1

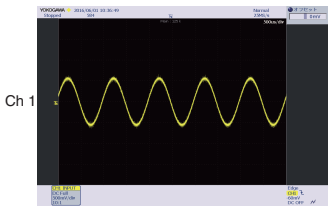
Ch 1: R6229 (MASTER1_L_HOT)
Ch 2: R6232 (MASTER1_L_COLD)
V: 500 mV/div. H: 500 us/div.



7-2 MASTER OUT2

Ch 1: C6409

V: 500 mV/div. H: 500 us/div.



Is the signal not output both from the MASTER1 and MASTER2?
- No → Remove the “LCD Assy and the rest (DNF1983)” .
- Yes → Is the MASTER_MUTE signal HI (3.3 V)?

Is the MASTER_MUTE signal HI (3.3 V)?
- No → Remove the “LCD Assy and the rest (DNF1983)” .
- Yes → Is the MAS_VR_MUTE signal HI (3.3 V)?

Is the MAS_VR_MUTE signal HI (3.3 V)?
- No → Replace the abnormal device by confirming the defective area of Q4058, Q4059 and peripheral circuits of the MUTE DRIVE circuit.
- Yes → The device around the comparator (IC9007) and peripheral circuits are defective. Replace the comparator if there is no defect by confirming the peripheral circuits.

Is the audio signal input to the output section of the MAIN Assy? “ 1-6 1-7 ”
- No → Replace the DAC (IC3701) if there is no defect by confirming the defective area of DAC and peripheral circuits.
- Yes → Remove the “LCD Assy and the rest (DNF1983)” .

Is the audio signal input to the output section of the MAIN Assy? “ 7-1 7-2 ”
- Yes → Replace the MUTE transistor in JACB Assy if there is no defect by confirming the defective area of MUTE transistor and peripheral circuits.
- No → Replace the defective device by confirming the area where the signal is not continuous inside the JACB Assy.

Confirmation the BOOTH

No audio signals are output from the BOOTH connector.

Input an audio signal to any of the input connectors. Or have an audio signal output by performing OSC SAMPLER[SINE], etc.

Is the audio signal input to the output section of the MAIN Assy?
" 1-8 1-9 "

No

Replace the DAC (IC3901) if there is no defect by confirming the defective area of DAC and peripheral circuits.

Yes

Remove the "LCD Assy and the rest (DNF1983)" .

Yes

Is the audio signal not continuous between input and output of the MUTE transistor of JACB Assy?
" 7-3 "

Yes

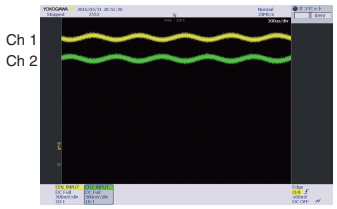
Replace the MUTE transistor in JACB Assy if there is no defect by confirming the defective area of MUTE transistor and peripheral circuits.

No

Replace the defective device by confirming the area where the signal is not continuous inside the JACB Assy.

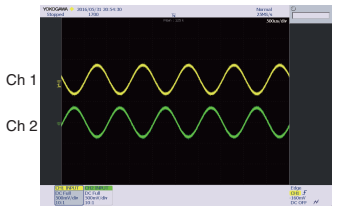
1-8 BOOTH OUT

Ch 1: IC3901_ pin 12 (BDAC_OUT_L+)
Ch 2: IC3901_ pin 11 (BDAC_OUT_L-)
V: 500 mV/div. H: 500 us/div.



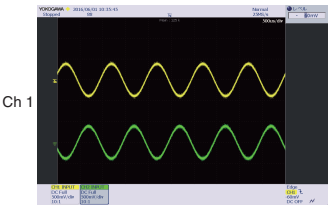
1-9 BOOTH OUT

Ch 1: CN3701_ pin 3 (BOOTH_L+)
Ch 2: CN3701_ pin 5 (BOOTH_L-)
V: 500 mV/div. H: 500 us/div.



7-3 BOOTH OUT

Ch 1: R6529 (BOOTH_L_HOT)
Ch 2: R6532 (BOOTH_L_COLD)
V: 500 mV/div. H: 500 us/div.



Confirmation the PHONE

No audio signals are output from the PHONE connectors.

Input an audio signal to any of the input connectors. Or have an audio signal output by performing OSC SAMPLER[SINE], etc.

Is the audio signal input to the output section of the MAIN Assy?
" 1-14 1-15 "

No

Replace the DAC (IC4501) if there is no defect by confirming the defective area of DAC and peripheral circuits.

Yes

Is the audio signal not continuous between input and output of the MUTE transistor of HPJK Assy?
" 7-5 "

Yes

Replace the MUTE transistor in HPJK Assy if there is no defect by confirming the defective area of MUTE transistor and peripheral circuits.

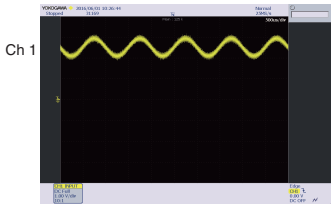
No

Replace the defective device by confirming the area where the signal is not continuous inside the HPJK Assy.

(1-14) HP OUT

Ch 1: IC4501_ pin 11

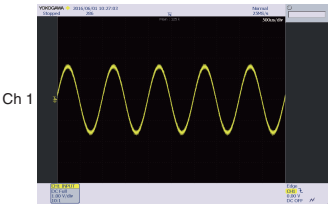
V: 1 V/div. H: 500 us/div.



(1-15) HP_L

Ch 1: CN4501_pin 4 (TP4505)

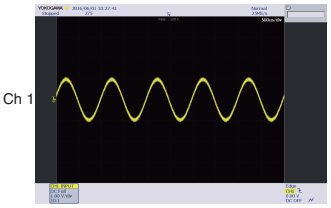
V: 1 V/div. H: 500 us/div.



(7-5) HP OUT

Ch 1: R8101

V: 1 V/div. H: 500 us/div.



Confirmation the USB audio

Can not be USB audio input and output.

Is the DDJ-RZX unit recognized by the PC?

No → Defect of the USB HUB1 and HUB2 (IC4901, IC4951) in the USB line or MAIN CPU (IC1701). Rpelace MAIN Assy

Yes

Is the input of the CD or LINE functioning?

Yes → Refer to “No audio signals are output from the MASTER 1/ MASTER 2 connectors.”

No → MAIN CPU or DSP (IC2601 and IC3101) is defective. Replace the MAIN Assy.

Confirmation the CH input

No audio signals from the CH audio input connectors are available.

Input an audio signal to the CH input connector in question.

Are the channel level indicators lit?

Yes → DSP (IC2601) and peripheral circuits is defective. Replace the MAIN Assy.

Yes

Remove the “LCD Assy and the rest (DNF1983)” .

Is the objective CH is CH3 or CH4?

No

Yes

Is the signal not input to both the LINE and PHONO?

Yes

No

No

Is the signal switched by comforming the swtching signal of SW OP amplifier. " 1-13 "

No → Replace the transistor if there is no defect by confirming the peripheral circuits of the switching transistor.
CH3 : Q4205
CH4 : Q4405

Yes

Is the audio signal input to the input section of the MAIN Assy? " 1-10 1-11 1-12 "

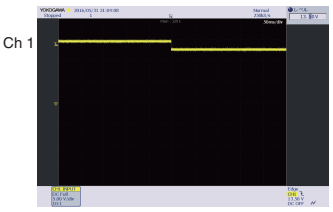
No → Replace the OP amplifier if there is no defect by confirming the OP amplifier and peripheral circuits.
CH1 : IC4101, IC4102
CH2 : IC4301, IC4302
CH3 : IC4202, IC4203, IC4201
CH4 : IC4402, IC4403, IC4401

Yes → Replace the ADC if there is no defect by confirming the ADC and peripheral circuits.
CH1 : IC4103
CH2 : IC4205
CH3 : IC4403
CH4 : IC4405

1-13 SW_AM SW SIGNAL (at LINE to PHONO)

Ch 1: IC4202_ pin 1

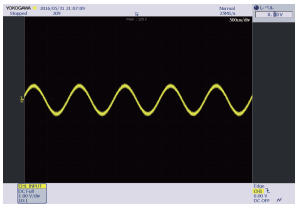
V: 5 V/div. H: 500 us/div.



1-10 CH3_L (PHONO)

Ch 1: IC4201_ pin 1

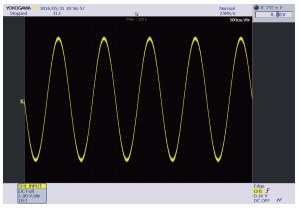
V: 1 V/div. H: 500 us/div.



1-11 CH3_L

Ch 1: IC4202_ pin 5

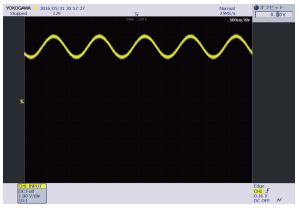
V: 1 V/div. H: 500 us/div.



1-12 CH3_L

Ch 1: C4246

V: 1 V/div. H: 500 us/div.



Confirmation the MIC input

No audio signals from the MIC connectors are available.

→ Input an audio signal to the MIC connectors in question.

Remove the "LCD Assy and the rest (DNF1983)" .

Is the signal input to the CN4601 10 PIN (MIC1), 6 PIN (MIC2) section of the MAIN Assy? " 1-17 7-4 "

No → MCJK Assy is defective.
Confirm the spot where the audio signal is not continuous.
Replace the OP amplifier if there is no defect by confirming the peripheral circuits of the OP amplifier.
MIC1 line is NG : Replace IC8003
MIC2 line is NG : Replace IC8002

Yes

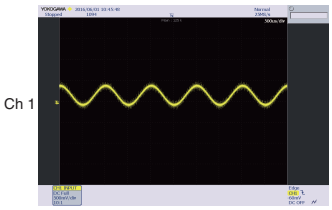
Is the signal input to the ADC (IC4603)? " 1-16 "

No → MAIN Assy is defective.
Confirm the spot where the audio signal is not continuous.
Replace the OP amplifier if there is no defect by confirming the peripheral circuits of the OP amplifier.
MIC1 line is NG : Replace IC4601
MIC2 line is NG : Replace IC4602

Yes → Replace the ADC (IC4603) if there is no defect by confirming the ADC and peripheral circuits.

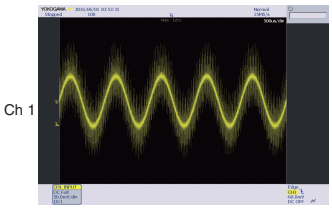
1-17 MIC

Ch 1: CN4601_ pin 10 (TP4605) (MIC1)
V: 1 V/div. H: 500 us/div.



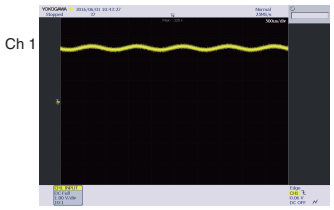
7-4 MIC

Ch 1: CN6701 (MIC1_IN)
V: 50 mV/div. H: 500 us/div.



1-16 MIC

Ch 1: C4611
V: 1 V/div. H: 500 us/div.



■WAVEFORMS

Number enclosed in a box shows each voltage measurement point of the Schematic diagram and diagram PCB diagram.

□で囲まれた数字は、回路図および PCB 図上の各電圧測定ポイントを示しています。

Name	No.	PCB Assy	Measurement Point	Min	Typ.	Max.	(Ex.) Measurement Value	Remarks
V+12E	1	MAIN Assy	TP1003	11.40V	12.00V	12.60V	12.070V	±5%
V+12A	2	MAIN Assy	TP1004	11.40V	12.00V	12.60V	12.030V	±5%
V+12D V+12LED V+12LED1	3	MAIN Assy	TP1008	11.40V	12.00V	12.60V	12.030V	±5%
	3-A - 3-J	MAIN Assy, XYM2 Assy, LCDM Assy	TP3401	-	12.00V	-	12.030V	-
V+3R3E V+3R3EUP	4	MAIN Assy	TP1056	3.24V	3.33V	3.42V	3.310V	±2.7%
	4-A, 4-B, 4-C	MAIN Assy, LCDM Assy	TP3520	-	3.33V	-	3.310V	-
V+18A	5	MAIN Assy	TP1205	17.47V	18.00V	18.53V	17.880V	±2.95%
V-18A	6	MAIN Assy	TP1203	-17.28V	-18.00V	-18.72V	-17.950V	±4%
V+8A	7	MAIN Assy	TP1302	7.69V	7.92V	8.15V	7.930V	±2.9%
V+26FL_1 V+26FL	8	MAIN Assy	TP1158	25.23V	26.00V	26.77V	26.130V	±2.96%
	8-A, 8-B, 8-C, 8-D, 8-E	MAIN Assy, STMO Assy, JFLB Assy	TP3552	-	26.00V	-	26.010V	-
V+5R1D V+5FL V+5LED	9	MAIN Assy	TP1151	5.11V	5.20V	5.29V	5.270V	±1.8%
	9-A, 9-B, 9-C, 9-D	MAIN Assy	TP1161	-	5.10V	-	5.160V	-
V+5R2BL V+5R2BL1 V+5R2BL2 V+5R2BL3	10	MAIN Assy	TP1455	5.11V	5.20V	5.29V	5.270V	±1.8%
	10-A - 10-I	MAIN Assy, LCDM Assy, LCDP Assy	TP1452	-	5.20V	-	5.230V	-
V+3R8D	11	MAIN Assy	TP1102	3.73V	3.80V	3.87V	3.770V	±1.8%
V+1R285D	12	MAIN Assy	TP1104	1.256V	1.285V	1.314V	1.288V	±2.25%
	12-A, 12-B	MAIN Assy	TP2602	-	1.285V	-	1.272V	-
V+7R5HP	13	MAIN Assy	TP1255	7.28V	7.50V	7.72V	7.490V	±2.9%
V-7R5HP	14	MAIN Assy	TP1253	-7.16V	-7.49V	-7.82V	-7.520V	±0.33V
V+3R3D V+3R3D_DSP V+3R3CLK	15	MAIN Assy	TP1103	3.24V	3.30V	3.36V	3.277V	±1.8%
	15-A - 15-K	MAIN Assy	TP2601	-	3.30V	-	3.267V	-
V+4R2D	16	LCDM Assy	TP101	4.07V	4.19V	4.31V	4.180V	±2.8%
V+5R2LCD_1 V+5R2LCD V+5R2LCD3_PWR V+5VBUS_B	17	MAIN Assy	TP1157	5.11V	5.20V	5.29V	5.210V	±1.8%
	17-A - 17-F	MAIN Assy	TP1017	-	5.20V	-	5.160V	-
V+15A	18	MAIN Assy, MCJK Assy, JACB Assy	TP1208	14.40V	15.00V	15.60V	14.770V	±4%
	18-A, 18-B	MAIN Assy, JACB Assy	TP3713	-	15.00V	-	14.770V	-
V-15A	19	MAIN Assy, MCJK Assy, JACB Assy	TP1209	-14.40V	-15.00V	-15.60V	-15.380V	±4%
	19-A, 19-B	MAIN Assy, JACB Assy	TP3712	-	-15.00V	-	-15.360V	-
V+5A_L/R V+5A	20	MAIN Assy	TP1202	4.80V	5.00V	5.20V	5.070V	±4%
V+3R3DAC_D V+3R3A	21	MAIN Assy	TP1305	3.27V	3.30V	3.33V	3.287V	±1%
V+1R5_AM_DDR	22	MAIN Assy	TP1606	1.46V	1.50V	1.55V	1.512V	±3%
V+1R8_AM_VDD	23	MAIN Assy	TP1607	1.75V	1.80V	1.85V	1.802V	±3%
VDIG2 V+1R8_AM_PLL	24	MAIN Assy	TP1601	1.75V	1.80V	1.85V	1.820V	±3%
VAUX33 V+3R3_AM_USB	25	MAIN Assy	TP1602	3.20V	3.30V	3.40V	3.310V	±3%

Name	No.	PCB Assy	Measurement Point	Min	Typ.	Max.	(Ex.) Measurement Value	Remarks
VMMC V+3R3_AM_IO1	26	MAIN Assy	TP1603	3.20V	3.30V	3.40V	3.330V	±3%
VAUX2 V+3R3_AM_IO2	27	MAIN Assy	TP1604	3.20V	3.30V	3.40V	3.330V	±3%
VAUX1 V+1R8_AM_USB	28	MAIN Assy	TP1605	1.75V	1.80V	1.85V	1.821V	±3%
VDD2 V+1R1_AM_CORE	29	MAIN Assy	TP1608	1.07V	1.10V	1.13V	1.108V	±3%
VDD1 V+1R325_AM_MPU	30	MAIN Assy	TP1612	1.222V	1.260V	1.298V	1.274V	±3%
VRTC V+1R83_AM_RTC	31	MAIN Assy	TP1611	1.78V	1.83V	1.88V	1.831V	±0.05mV
VPLLD V+1R8_AM_ADC	32	MAIN Assy	TP1609	1.75V	1.80V	1.85V	1.822V	±3%
V+3R3VGEN6	33	LCDM Assy	TP405	3.20V	3.30V	3.40V	3.294V	±3%
V+2R8VHIGH	34	LCDM Assy	TP404	2.91V	3.00V	3.09V	2.991V	During normal operation: ±3%
				2.72V	2.80V	2.88V	2.797V	During power on: ±3%
V+3R0VSNVS	35	LCDM Assy	TP402	2.79V	3.00V	3.21V	2.995V	±7%
V+1R5VCOREDIG	36	LCDM Assy	TP401	1.49V	1.50V	1.51V	1.504V	±0.5%
V+1R375CORE	37	LCDM Assy	TP411	1.225V	1.250V	1.275V	1.253V	During normal operation: ± 25mV
				1.350V	1.375V	1.400V	1.377V	During power on: ± 25 mV
V+1R375SOC	38	LCDM Assy	TP410	1.225V	1.250V	1.275V	1.248V	During normal operation: ±25mV
				1.350V	1.375V	1.400V	1.373V	During power on: ± 25 mV
V+2R5VGEN3	39	LCDM Assy	TP414	2.43V	2.50V	2.58V	2.499V	±3%
V+1R8VGEN4	40	LCDM Assy	TP413	1.75V	1.80V	1.85V	1.805V	±3%
V+1R5DDR	41	LCDM Assy	TP412	1.46V	1.50V	1.55V	1.502V	±3%
V+3R3D	42	LCDM Assy, LCDP Assy	TP417	3.10V	3.30V	3.50V	3.258V	±6%
	42-A - 42-E	LCDM Assy, LCDP Assy	TP1502	-	3.30V	-	3.255V	-
V+3R3FL	43	JFLB1 Assy	TP6023	-	3.3V	-	3.538V	-
	44	JFLB2 Assy	TP6123				3.556V	-

5.3 MONITORING OF POWER SUPPLY AND VOLTAGE

■ Voltage monitoring

The EUP UCOM (IC7001) always monitors the main power supply voltage by F_DET (FAULT_DET) on this unit.
The F_DET signal is High level (+3.3 V) normally, but it becomes Low level (0 V) in abnormal state, and shut down the power at once when detecting the defect.

■ Product behavior when an error is generated

The power monitoring is started when 1300 msec elapsed from the power on.
The unit is confirmed to power defect when F_DET signal stays low level for more than 50 msec.
When the power defect is confirmed, the EUP UCOM makes PWR_ON singnal to Low, and the power output of V+12/V+12LED/V+12A from POWER SUPPLY Assy is stopped.And the EUP UCOM indicates the power defect by blinking the UTILITY button LED, and turning off the rest all LEDs.
As V+12/V+12LED/V+12A power output is stopped in power defect, the JOG dial display section and touch disply light is turned off, and it is unable to operate the all switches and volumes.
When the power is turned OFF by detecting the defect, it is able to recover the power if the diagnosis is made by following procedure after disconnenting the power cord and the power is turned ON again after getting normal voltage.

■ Diagnostic procedure

As the resident charge is not discharged sufficiently inside the circuit soon after disconnecting the power cord, please execute the following diagnose or turn ON the power again after the UTILITY button blinking stops and becomes ligt-out state.

- Confirm if the circuit between each power and GND is not short-circuited.
- As the power monitoring becomes effect in less than 2 seconds after power ON, confirm if there is no defect in each circuit before the power monitoring becoming effective.
- When it is unable to complete confirmation of all monitoring voltage before the power monitoring becomes effective, make the confirmation in separate steps.

■ Detected voltage threshold level

Monitoring voltage	Overvoltage/ Reduced voltage	Detection threshold range considered variation		
		Minimum value	Standard value	Maximum value
V+1R285D	+	8.30 V	8.58 V	8.86 V
	-	0.50 V	0.60 V	0.70 V
V+3R3D	+	4.28 V	4.58 V	4.87 V
	-	1.34 V	1.53 V	1.74 V
V+3R3EUP	+	3.80 V	4.30 V	4.82 V
V+3R3A	+	4.08 V	4.42 V	4.75 V
	-	1.85 V	2.40 V	3.05 V
V+3R8D	+	8.30 V	8.58 V	8.86 V
V+4R2D	-	3.00 V	3.22 V	3.47 V
V+5A	+	5.12 V	5.98 V	6.94 V
	-	3.34 V	3.53 V	3.76 V
V+5R1D	+	8.30 V	8.58 V	8.86 V
	-	8.28 V	3.53 V	3.83 V
V+7R5HP	-	3.99 V	4.13 V	4.27 V
V-7R5HP	+	-5.33 V	-4.11 V	-3.13 V
V+12D	-	7.33 V	8.74 V	10.50 V
V+15A	+	16.52 V	19.50 V	23.16 V
	-	11.95 V	12.56 V	14.64 V
V-15A	+	-9.68 V	-7.71 V	-6.11 V
	-	-20.61 V	-19.07 V	-17.58 V

5.4 OPERATION CHECK WITH rekordbox

[Installation of rekordbox]

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

Minimum operating environment

Supported operating systems	CPU and required memory
Mac OS X: 10.11/10.10/10.9 (latest update)	Intel® processor Core™ i5 2.5 GHz or better
	8 GB or more of RAM
Windows: Windows 10, Windows 8.1, Windows 8.1 Pro (latest service pack), Windows 7 Home Premium, Professional, Ultimate (latest service pack)	Intel® processor Core™ i5 2.5 GHz or better
	8 GB or more of RAM

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

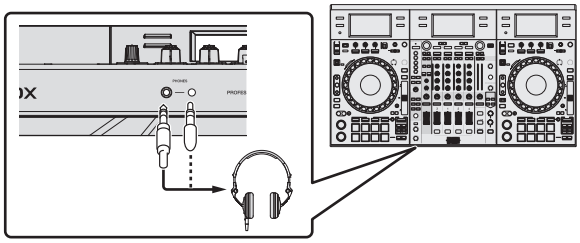
- For the latest information on the required operating environment and compatibility as well as to acquire the latest operating system, see “Software Info” of “DDJ-RZX” on the “Pioneer DJ” site and “System Requirements” of “rekordbox.com” below.
  http://pioneerdj.com/support/ http://rekordbox.com/
-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

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

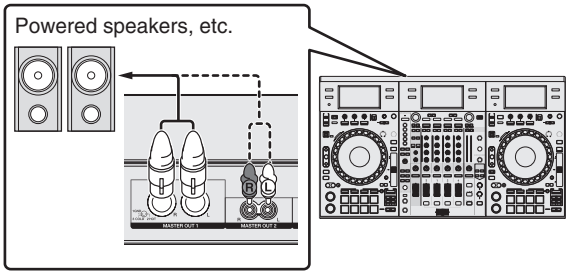
- Be sure to use rekordbox Version 4.2.0 or later, because the prior versions of rekordbox do not support the DDJ-RZX.
- To use rekordbox dj, rekordbox dvs, and rekordbox video, activation (license authentication) is required. For details, see the rekordbox Operating Instructions.
  https://rekordbox.com/en/support/manual.php

[Operating procedures]

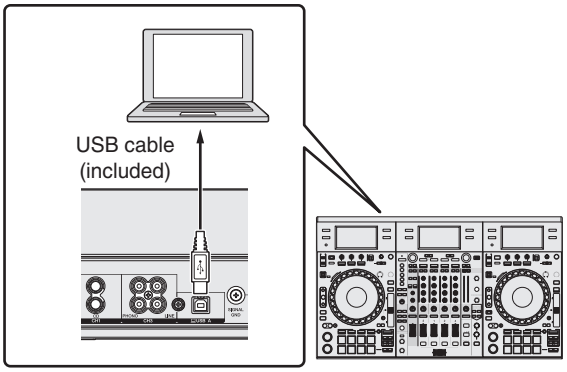
① Connect headphones to one of the [PHONES] terminals.



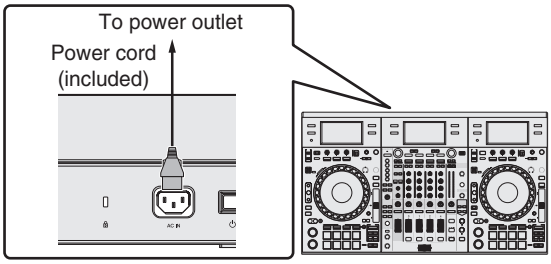
② Connect powered speakers, a power amplifier, components, etc., to the [MASTER OUT 1] or [MASTER OUT 2] terminals.



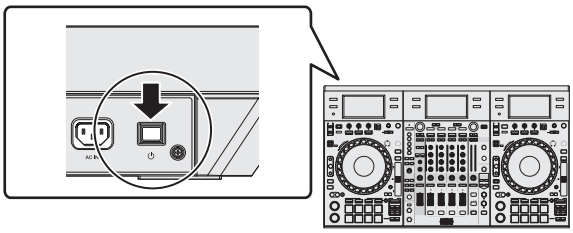
③ Connect this unit to your computer via a USB cable.



④ Turn on the computer’ s power.
⑤ Connect the power cord.



⑥ Press the [⏻] switch on this unit' s rear panel to turn this unit' s power on.



⑦ Turn on the power of the devices connected to the output terminals (powered speakers, power amplifier, components, etc.).

Starting the system

Launching rekordbox

For Windows 7

Click the [All Programs] > [Pioneer] > [rekordbox] icon from the Windows [Start] menu.

For Windows 8.1/8

From [Apps view], click the [rekordbox] icon.

For Mac OS X

Open the [Applications] folder in Finder, then double-click the [rekordbox] icon.

Importing tracks

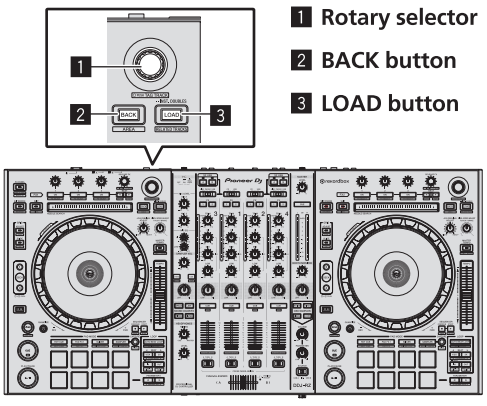
① Click [Collection] in the tree view.
② Open Finder or Windows explorer, then drag and drop music files or folders including music files to the track list.

a : Tree View
b : Track list

a Tree View b Track list

Loading tracks and playing them

① Select the [Collection] or a playlist or other item and then press the unit' s rotary selector to move to the track list.
② Turn the rotary selector and select the track.
③ Press the [DECK1] button.
④ Press the [LOAD] button to load the selected track onto the deck.

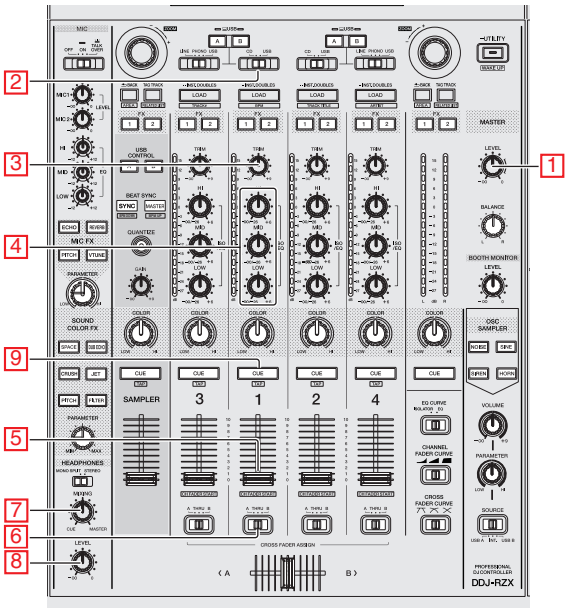


1 Rotary selector
2 BACK button
3 LOAD button

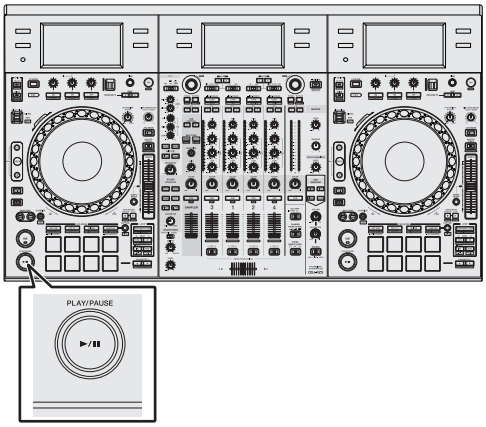
Playing tracks and outputting the sound

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

Names of controls, etc.		Position
MASTER LEVEL control	1	Turned fully counterclockwise
CD, USB selector switch	2	[**USB**] position
TRIM control	3	Turned fully counterclockwise
ISO (**HI**, **MID**, **LOW**) controls	4	Center
Channel fader	5	Moved forward
Crossfader assign selector switch	6	[**THRU**] position



② Press the [▶/❚❚] button to play the track.



③ Turn the [TRIM] (3) control.
④ Move the channel fader (5) away from you.
⑤ Turn the [MASTER LEVEL] (1) control to adjust the audio level of the speakers.

Monitoring sound with headphones

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

Names of controls, etc.		Position
HEADPHONES MIXING control	7	Center
HEADPHONES LEVEL control	8	Turned fully counterclockwise

① Press the headphones [CUE] (9) button for the channel 1.
② Turn the [HEADPHONES LEVEL] (8) control.

6. SERVICE MODE
6.1 SERVICE MODE

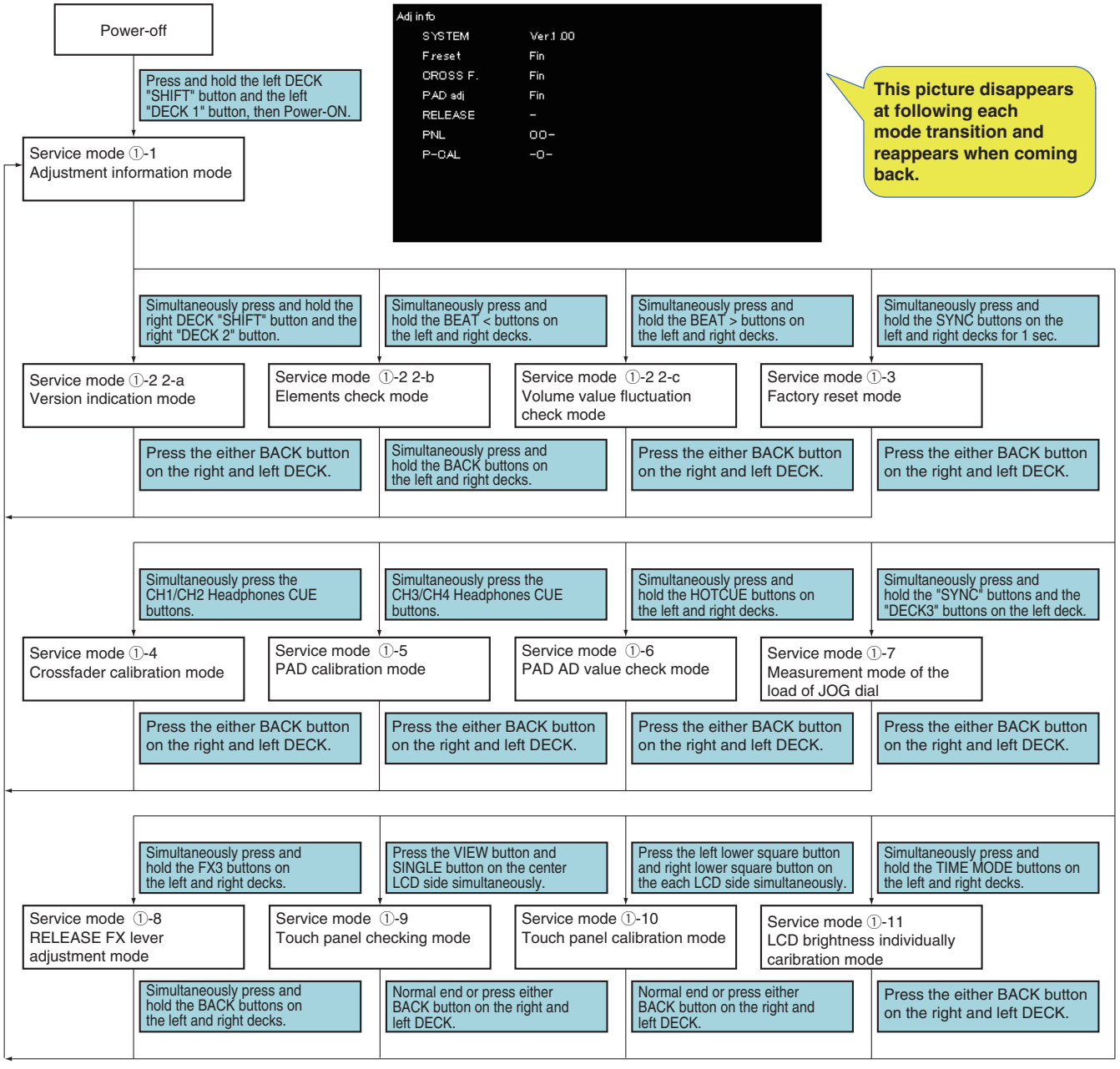
1. Description of Service Modes

The Following service modes are provided for this unit:

① Service Mode

①-1: Adjustment information mode
①-2: 2-a Version indication mode
2-b Elements check mode
2-c Volume value fluctuation check mode
①-3: Factory reset mode
①-4: Crossfader calibration mode
①-5: PAD calibration mode
①-6: PAD AD value check mode
①-7: Measurement mode of the load of JOG dial
①-8: RELEASE FX lever adjustment mode
①-9: Touch panel checking mode
①-10: Touch panel calibration mode
①-11: LCD brightness individually caribration mode

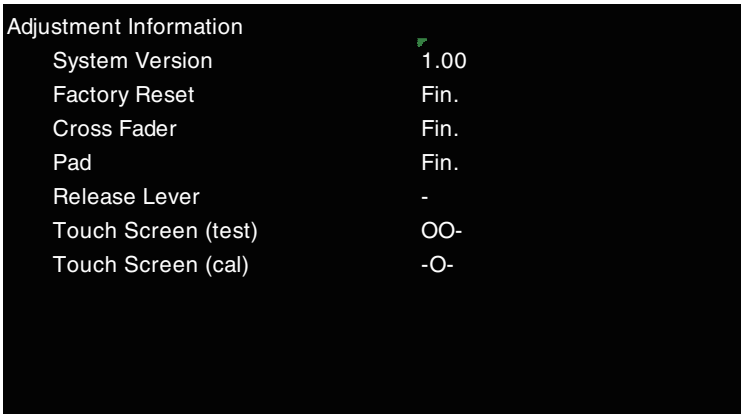
2. How to Enter Service Mode



3. Description of Service Mode

①-1: Adjustment information mode

The following information is displayed on the center LCD.
This contents is stored even after the power off, and it can be redisplayed.

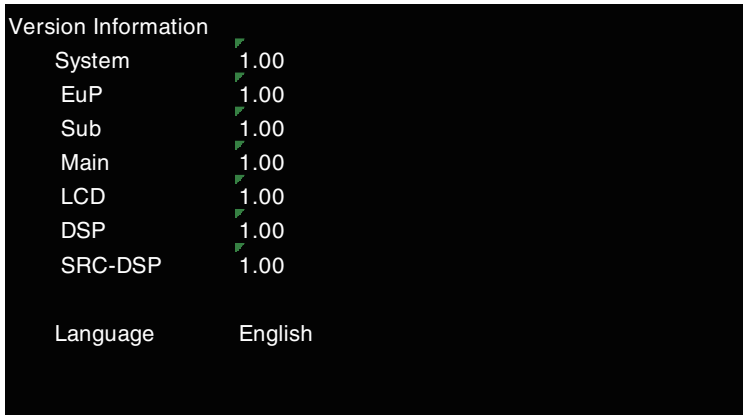


Service mode		Result	Display item name	Result column display	
				Complied with	Not complied with
①-1	Adjustment information mode	–	–	–	
①-2 2-a	Version indication mode	Display only System Version	System Version	Display only System Version	
①-2 2-b	Elements check mode	Not applicable (For only visual confirmation)	–	–	
①-2 2-c	Volume value fluctuation check mode	Not applicable (For only visual confirmation)	–	–	
①-3	Factory reset mode	Applicable display the setting compiled with/Not compiled with.	Factory Reset	Fin	–
①-4	Crossfader calibration mode	Applicable display the setting compiled with/Not compiled with.	Cross Fader	Fin	–
①-5	PAD calibration mode	Applicable display the setting compiled with/Not compiled with.	Pad	Fin	–
①-6	PAD AD value check mode	Not applicable (For only visual confirmation)	–	–	
①-7	Measurement mode of the load of JOG dial	Not applicable (For only visual confirmation)	–	–	
①-8	RELEASE FX lever adjustment mode	Applicable display the setting compiled with/Not compiled with.	Release Lever	Fin	–
①-9	Touch panel checking mode	Applicable display the setting completed/failed	Touch Screen (test)	O	–
①-10	Touch panel calibration mode	Applicable display the setting compiled with/Not compiled with.	Touch Screen (cal)	O	–
①-11	LCD brightness individually caribration mode	Not applicable	–	–	

*The result of Mode 9 and Mode 10 related with the touch panel is displayed horizontally like above figure.
(Each result of the left LCD, center LCD and right LCD is displayed in order from left to right.)

①-2 2-a: Version indication mode

The each microcomputer version indication and destination (language) is displayed on the center LCD.



①-2 2-b: Elements check mode

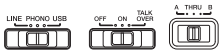
This mode is for confirming operation of all operating elements located on the upper and front panels.
As data on the following operating elements are not controlled by the microcomputer, their operation cannot be checked in this mode.

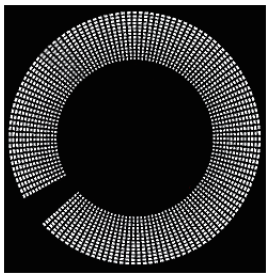
- JOG FEELING ADJUST control (L, R)
- MIC1 control, MIC2 control

Element type	UI Part Name	Trigger	LED to check
Push switches (with LED)	————	Press	Own LED
Push switches (without LED)	BROWSE (Press) (L, R)	Press	All LED and Jog dial display section
	BACK button (L, R)		Jog dial ring (white)
	SHIFT button (L, R)		Jog dial cente FL VINYL lit
	CAPTURE button (L, R)		Jog dial center FL VINYL outer out side lit
	Jog dial (TOUCH) (L, R)		Jog dial center FL VINYL out side lit
	TEMPO RESET button (L, R)		TEMPO RESET LED
	TAG TRACK button (RELATED LIST) (L, R)		Jog dial ring (blue)
	FX MODE button (L, R)		RELEASE (center)
	BEAT < button (L, R)		RELEASE (under)
	BEAT > button (L, R)		RELEASE (top)
	VIEW button (PAD INFO) (L, R)		TEMPO LED (top)
	TRACK INFO button (MEMORY CUE) (L, R)		TEMPO LED (under)
	TIME MODE button (AUTO CUE) (L, R)		REV LED
	VIEW button (WAVEFORM)		USB CONNECT LED (USB A)
	2DECK/4DECK button		USB CONNECT LED (USB B)
Slide switch	INPUT SELECT selector switch	Slide	Jog dial center FL TYPE A (*1)
	OFF/ON/TALK OVER selector switch		Jog dial center FL TYPE A (*1) MIC LED
	Crossfader assign selector switch		Jog dial center FL TYPE A (*1)
	CHANNEL FADER CURVE selector switch		
	CROSS FADER CURVE selector switch		
	OSC SAMPLER SOURCE selector switch		
	HEADPHONE MONO SPLIT/STEREO selector switch		
	EQ CURVE ISO/EQ selector switch		
Lever	DIRECION FWD REV (L, R) lever	Move the lever to the FWD/REV side.	Jog dial center FL TYPE A (*1)
	RELEASE FX lever		Master level indicator (*4)
Jog dial (Turn) (L, R) , Effect parameter1,2,3 controls (L, R) VINYL SPEED ADJUST control (L, R)		Turn	Jog dial center FL TYPE B (*2)
TEMPO slider (L, R)		Slide	Jog dial center FL TYPE B (*2)
Rotary selector	BROWSE (Turn) (L, R)	Turn	Jog dial center FL TYPE C (*3)
	TIME control (L, R)		
Channel fader		Slide	Each channel level indicator (*4)
TRIM control,ISO/EQ (HI,MID,LOW) control, COLOR control		Turn	
MIC EQ (HI/MID/LOW) control, SAMPLER COLORcontrol, HEADPHONES MIXING control, HEADPHONES LEVEL control		Turn	Master level indicator (left) (*4)
SAMPLER VOLUME fader		Slide	
SAMPLER GAIN control, MIC FX PARAMETER control, SOUND COLOR FX PARAMETER control		Turn	
MASTER LEVEL control, MASTER OUT COLOR control, BOOTH MONITOR control, OSC SAMPLER PARAMETER control, OSCILLATOR VOLUME control, BALANCEcontrol		Turn	Master level indicator (right) (*4)
Cross fader		Slide	
Performance pads, PAD mode (*5)		Press	Own LED

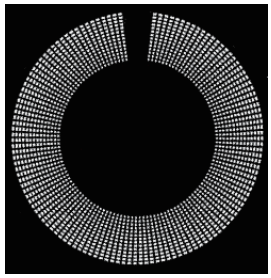
(*1) TYPE-A (Jog dial center FL)

For the selectors shown below, the selected positions will be represented with the indications of the Jog dial center FL, as shown below. The starting position depends on the last position.

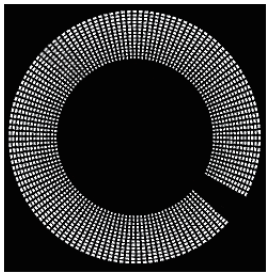




Left



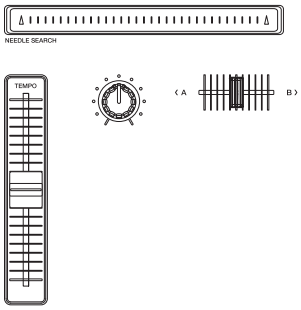
Center
(This indication is not available for a 2-position selector.)

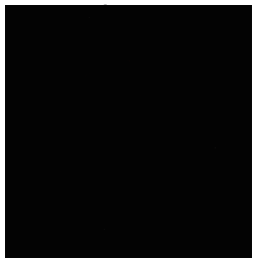


Right

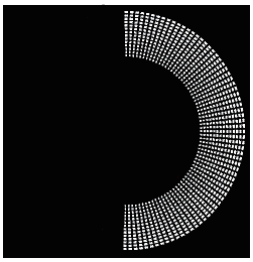
(*2) TYPE-B (Jog dial center FL)

For the operating elements shown below, the selected positions will be represented with the lighting area of the Jog dial center FL; the minimum level is represented by no segments lit and the maximum level by all segments lit.

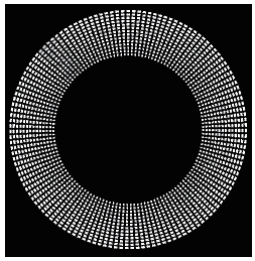




MIN
(No segments lit)



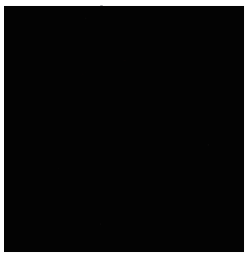
CENTER



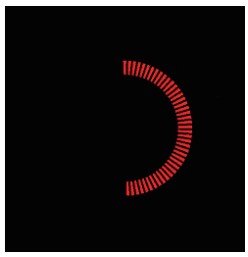
MAX

(*3) TYPE-C (Jog dial center FL)

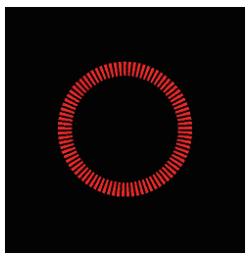
For the operating elements shown below, the selected positions will be represented with the lighting area (in red) of the Jog dial center FL; the minimum level is represented by no segments lit and the maximum level by all segments lit.



MIN
(No segments lit)



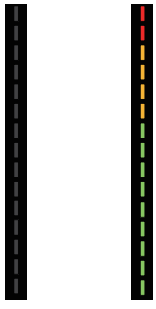
CENTER



MAX

(*4) Each channel level indicator, Master level indicator

Each operating element on decks 1 to 4 is represented by the corresponding channel level indicator; for a CH1 operating element, the CH1 channel level indicator is used, for a CH2 operating element, the CH2 channel level indicator is used, and so on.



MIN

MAX

(*5) Performance pads, PAD mode

A performance pad is provided with LEDs of three different colors.
There are two confirmation methods for the performance pads.

① **Simultaneous confirmation of all LEDs of the performance pads**
three different colors of the performance pads can be checked.
PAD MODE (HOT CUE) on: All PAD MODE buttons and pads are lit in blue.
PAD MODE (PAD FX1) on: All PAD MODE buttons and pads are lit in red.
PAD MODE (SLICER) on: All PAD MODE buttons and pads are lit in green.
PAD MODE (SAMPLER) on: All PAD MODE buttons and pads are lit in white (red, blue, and green LEDs light simultaneously).

② **Lighting check of individual LEDs of the performance pads**
If any of the performance pads is pressed repeatedly in any mode other than All LEDs Lit mode, the color of the pad changes cyclically, as indicated below.
Unlit, red, green, blue, unlit, and so on.

①-2 2-c: Volume value fluctuation check mode

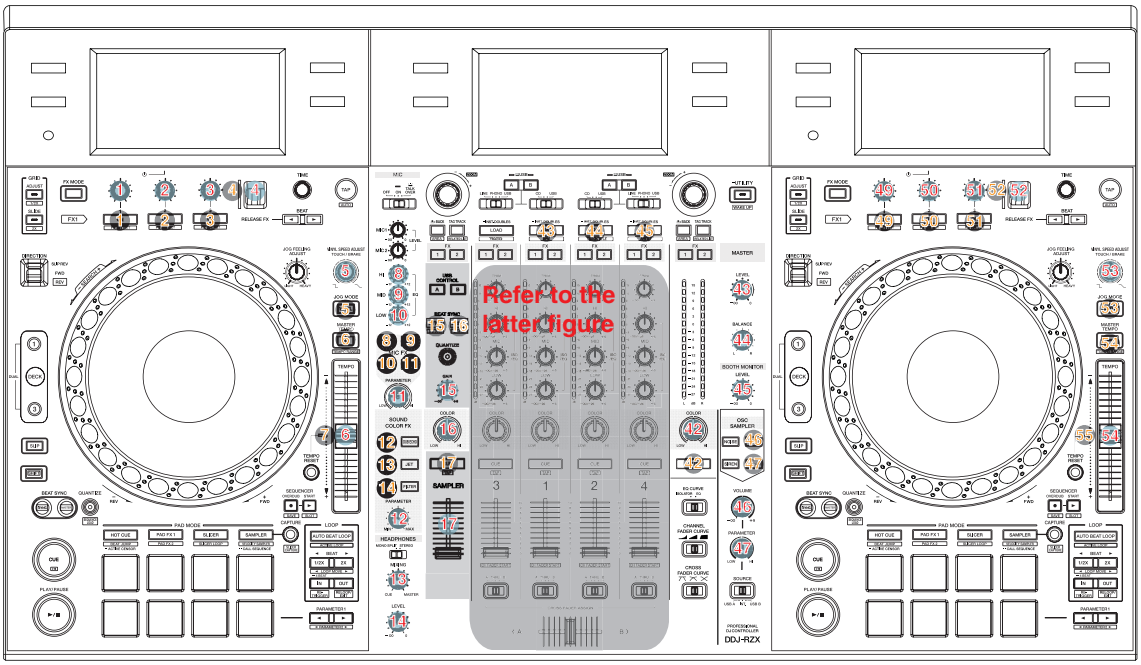
This mode is for testing fluctuated values of voltages (A/D conversion values) of various faders and rotary variable controls and for indicating such fluctuations with the MASTER level indicator.
To enter Volume value fluctuation check mode, simultaneously press the BEAT > buttons on the left and rigtht DECKS in Service mode (①-1: Adjustment information mode)

No.	Operating elements for Test object	Indicator for showing Test object
1	FX1 Effect parameter 1	FX1 ON/FX SELECT1
2	FX1 Effect parameter 2	FX1 ON/FX SELECT2
3	FX1 Effect parameter 3	FX1 ON/FX SELECT3
4	Left RELEASE FX lever	Left RELEASE FX
5	Left DECK VINYL SPEED ADJUST	Left DECK VINYL
6	Left DECK TEMPO slider	Left DECK MASTER TEMPO
7	Left DECK TEMPO slider center value	Left TEMPO RESET
8	MIC EQ HI	MIC FX SELECT (Upper left) ECHO
9	MIC EQ MID	MIC FX SELECT (Upper right) REVERB
10	MIC EQ LOW	MIC FX SELECT (Lower left) PITCH
11	MIC FX PARAMETER	MIC FX SELECT (Lower right) V TUNE
12	SOUND COLOR FX PARAMETER	SOUND COLOR FX SELECT SPACE
13	HEADPHONES MIXING	SOUND COLOR FX SELECT CRUSH
14	HEADPHONES LEVEL	SOUND COLOR FX SELECT PITCH
15	SAMPLER GAIN	SAMPLER SYNC
16	SAMPLER COLOR	SAMPLER MASTER
17	SAMPLER VOLUME	SAMPLER CUE
18	CH3 TRIM	Each channel level indicator: Refer to the latter figure
19	CH3 EQ/ISO High	
20	CH3 EQ/ISO Mid	
21	CH3 EQ/ISO Low	
22	CH3 COLOR	
23	CH3 Channel fader	
24	CH1 TRIM	
25	CH1 EQ/ISO High	
26	CH1 EQ/ISO Mid	
27	CH1 EQ/ISO Low	
28	CH1 COLOR	
29	CH1 Channel fader	
30	CH2 TRIM	
31	CH2 EQ/ISO High	
32	CH2 EQ/ISO Mid	
33	CH2 EQ/ISO Low	
34	CH2 COLOR	
35	CH2 Channel fader	
36	CH4 TRIM	
37	CH4 EQ/ISO High	

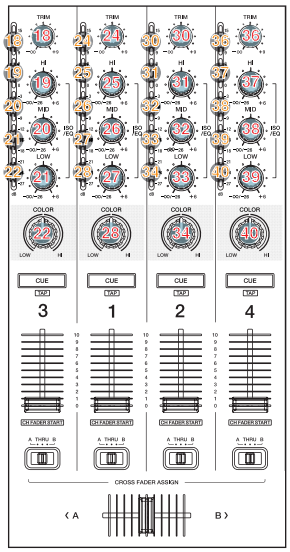
No.	Operating elements for Test object	Indicator for showing Test object
38	CH4 EQ/ISO Mid	Each channel level indicator: Refer to the latter figure
39	CH4 EQ/ISO Low	
40	CH4 COLOR	
41	CH4 Channel fader	
42	MASTER OUT COLOR	MASTER CUE LED
43	MASTER LEVEL	CH1 LOAD
44	MASTER BALANCE	CH2 LOAD
45	BOOTH MONITOR	CH4 LOAD
46	OSC SAMPLER VOLUME	OSC SAMPLER SELECT NOISE
47	OSC SAMPLER PARAMETER	OSC SAMPLER SELECT SIREN
48	Crossfader	C Channel level indicator Lower end: refer to the next page figure
49	FX2 Effect parameter 1	FX2 ON/FX SELECT1
50	FX2 Effect parameter 2	FX2 ON/FX SELECT2
51	FX2 Effect parameter 3	FX2 ON/FX SELECT3
52	Right RELEASE FX lever	Right RELEASE FX
53	Right DECK VINYL SPEED ADJUST	Right DECK VINYL
54	Right DECK TEMPO slider	Right DECK MASTER TEMPO
55	Right DECK TEMPO slider center value	Right TEMPO RESET

[Operating elements for Test object]

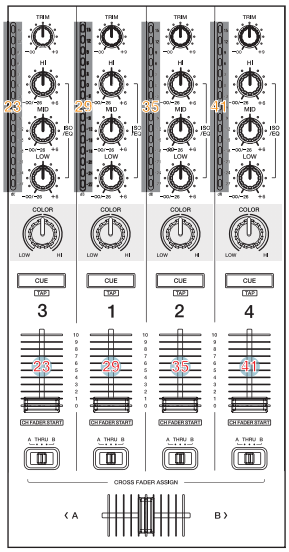
At the following figure, the number enclosed in blue displays the operating elements for Test object, and the number enclosed in black displays the indicator for showing operating elements for Test object.



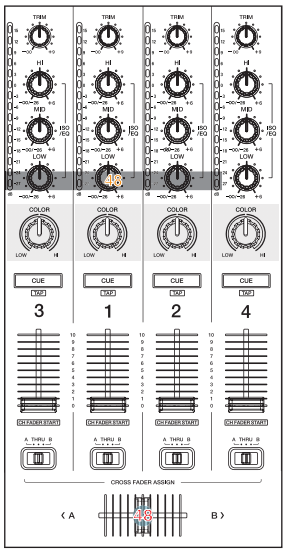
Each Channel TRIM, HI, MID, LOW, COLOR



Each Channel Fader



Crossfader



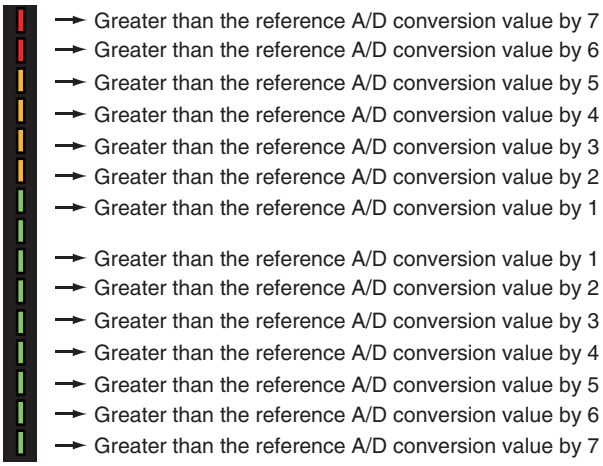
[Details of test]

① Select a fader/control to be tested by turning the rotary selector clockwise or counterclockwise.
At the beginning of this test mode, the control numbered 1 is selected.
As the rotary selector is turned by 1 click, the LED of the selected fader/control will light in the order indicated below.
Clockwise rotation: 1 → 2 → 3 → 4 → . . . . . → 54 → 55
Counterclockwise rotation: 55 → 54 → 53 → . . . . . → 2 → 1

② Which control/fader is currently selected is indicated with lighting of the LED of the button corresponding to the selected control/fader, as shown in the figure on the previous page.
The number same with the nunber on each element is the corresponding LED.

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

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



• Both greater and smaller A/D conversion values than the reference value remain indicated on the MASTER level indicator.
• Both greater and smaller maximum fluctuation values than the reference value remain indicated.

⑤ To reset the fluctuation values up until the present, press the rotary selector while monitoring A/D conversion values.
To reset the monitored A/D values, press the rotary selector. All LEDs will go dark. The A/D conversion value when the rotary selector is pressed will become a new reference value.

①-3: Factory reset mode

In Service mode (①-1: Adjustment information mode) the settings indicated in the table below can be reset to the factory default valuesif the SYNC buttons on the left and right decks are simultaneously held pressed for 1 sec.

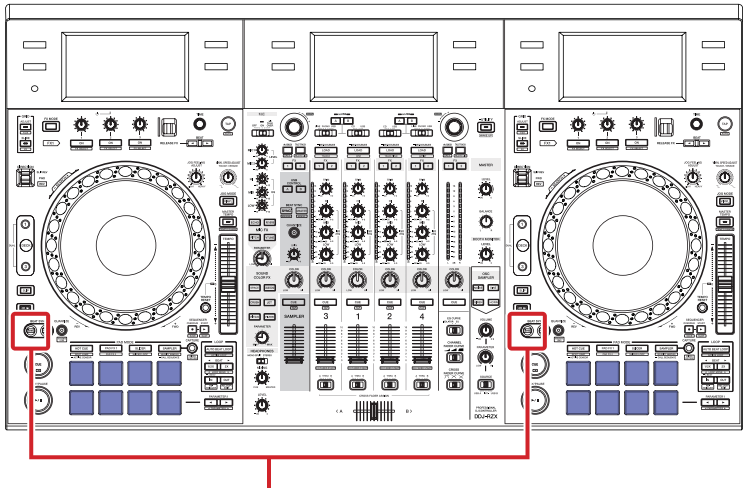
But the following items are not initialized.
• Languages setting
• Touch panel calibration mode

And this reset mode clears (resets) the result of the service mode (①-9: Touch panel checking mode).

[Each setting item]

Setting item	Factory default value
MIDI controller setting	AUTO
Master output attenuator level setting	0 dB
Booth output attenuator level setting	0 dB
Setting of the auto standby function	ON
Setting of talk over function	ADVANCED
Setting of talk over function level	-18 dB
Cut lag setting of crossfader	1.0 mm
Output setting of microphone to booth monitor	0 dB
Peak limiter setting	ON
Brightness setting of jog ring	2
Unit display section brightness setting	3
Demo mode and screen saver function setting	DEMO (10 min)
Touch panel calibration setting	CENTER
Monaural/stereo setting of master output	STEREO
Monaural/stereo setting of booth output	STEREO
Operation setting of microphone sound low cut filter	ON
Limiter setting of microphone audio added to master output	OFF
Limiter setting of microphone audio added to booth output	OFF
①-9: Touch panel checking mode	Clear results (reset)

When the SYNC buttons on the left and right decks are simultaneously held pressed, the LEDs of these buttons light.
After resetting is completed, the pads on both decks light in blue.
When resetting has failed, the SYNC buttons on both decks flash.



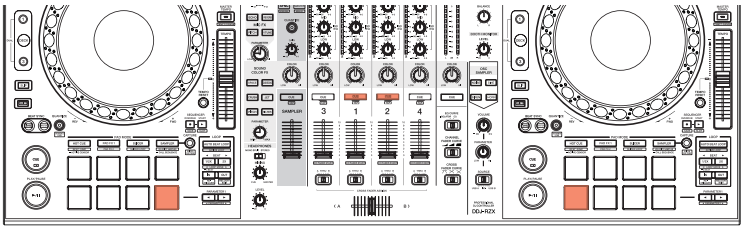
Simultaneously hold both SYNC buttons pressed for 1 sec.

①-4: Crossfader calibration mode

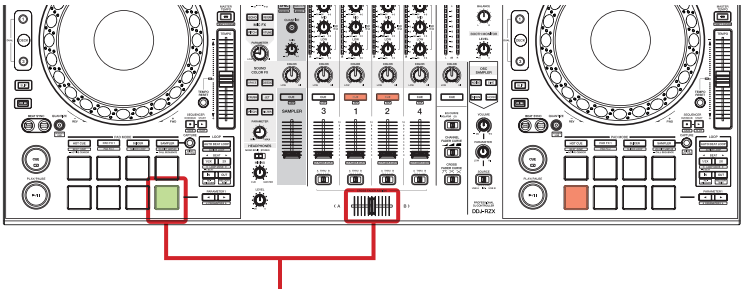
To enter Crossfader Calibration mode, simultaneously press the CH1 Headphones CUE and CH2 Headphones CUE buttons in Service mode (①-1: Adjustment information mode)
When the calibration is completed and the result is stored, the result is displayed.
When confirming the calibration result, enter this mode first, and confirm the result, then exit the mode by the BACK button after confirmation.

[Crossfader Calibration Procedure]

① Simultaneously press the CH1 Headphones CUE and CH2 Headphones CUE buttons in Service mode (①-1: Adjustment information mode)
The CH1 Headphones CUE and CH2 Headphones CUE buttons light.
Pad 8 on the left deck and pad 5 on the right deck light in red.

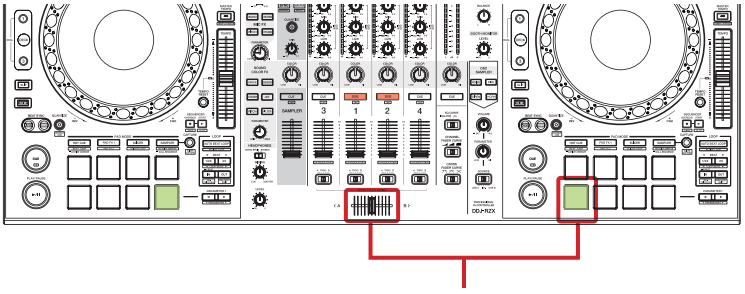


② Slide the crossfader to its leftmost position then press pad 8 on the left deck.
The color of pad 8 changes to green.
(The maximum value for the crossfader is obtained.)



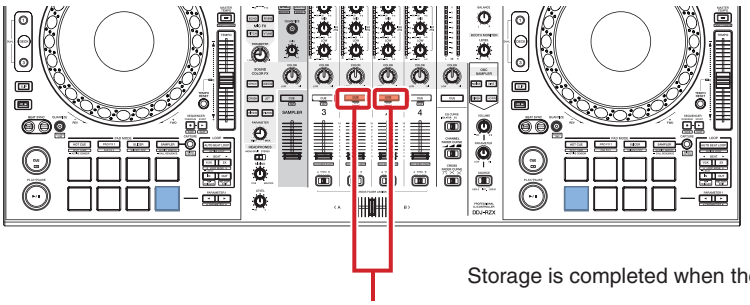
Slide the crossfader to its leftmost position then press pad 8 on the left deck.

③ Slide the crossfader to its rightmost position then press pad 5 on the right deck.
The color of pad 5 changes to green.
(The minimum value for the crossfader is obtained.)



Slide the crossfader to its rightmost position then press pad 5 on the right deck.

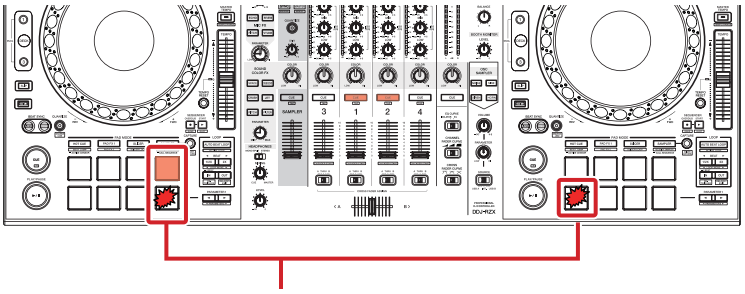
④ Simultaneously press the CH1 Headphones CUE and CH2 Headphones CUE buttons.
The color of pad 8 on the left deck and pad 5 on the right deck changes to blue. (Completion of storing the setting values)
*If the CH1 Headphones CUE and CH2 Headphones CUE buttons are pressed without setting the maximum and minimum values, an error indication will be displayed.



Storage is completed when the pad lighting turns blue.

Simultaneous pressing of the CH1 Headphones CUE and CH2 Headphones CUE buttons stores the setting values in the serial flash memory.

[Error indication]

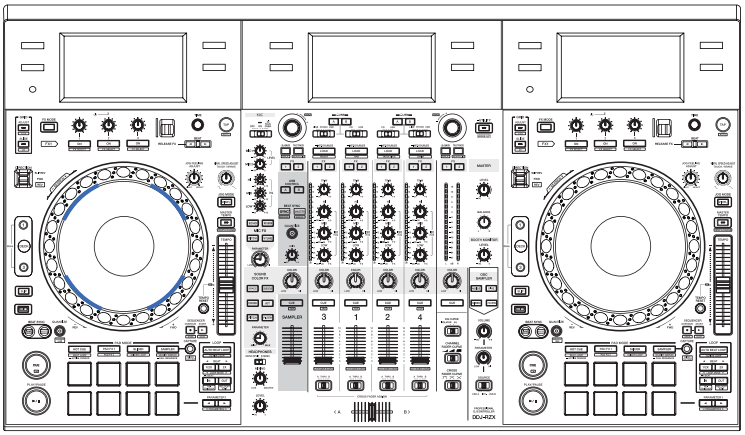


In a case of a setting error, the pads flash in red.
If the maximum and minimum values are in contradiction, pad 4 on the left deck lights.

In a case of a setting error, the pads flash in red.
If the maximum and minimum values are in contradiction, pad 4 on the left deck lights.

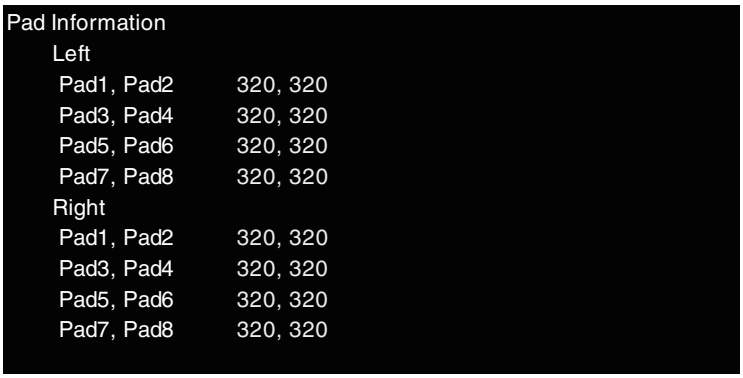
⑤ Check the setting values.
When pressing the left DECK PAD 8/ right DECK PAD 5, the maximam value/ minimum value is displayed on the level meter.
The hundreds, tens, and unit's digits are expressed with the CH1, CH2, and CH4 level indicators, respectively.
If no calibration was performed, no level indicators light.
The pressed PAD (left PAD 8/ right PAD 5) lit in white.

[Error indication when no calibration is performed]
With no calibration, the Jog ring LEDs on the left deck flash in blue.



①-5: PAD calibration mode

When the calibration is completed and the result is stored, the result is displayed.
When confirming the calibration result, enter this mode first, and confirm the result, then exit the mode by the BACK button after confirmation.

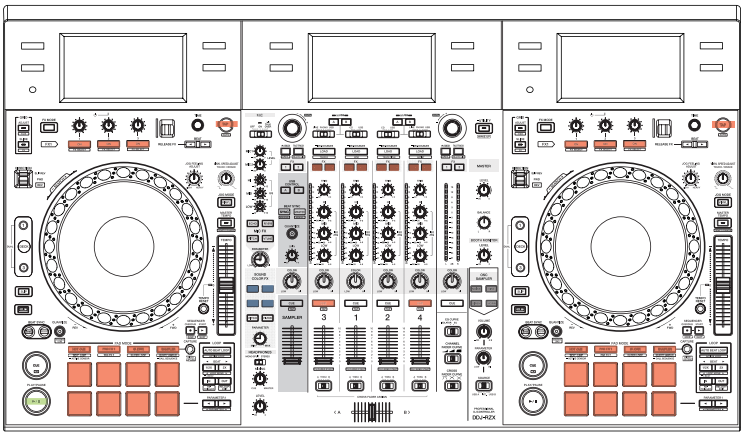


[Operating elements to be used for Pad Calibration]

Element Name	Purpose	Element Name	Purpose
Left DECK FX1 button	Acquiring an A/D conversion value	CH3 FX1 assign button	Confirming a setting value
Left DECK FX2 button		CH3 FX2 assign button	
Left DECK FX3 button		CH1 FX1 assign button	
Left DECK TAP (AUTO) button		CH1 FX2 assign button	
Left DECK HOT CUE mode button		SOUND COLOR FX SELECT SPACE button	
Left DECK PAD FX1 button		SOUND COLOR FX SELECT CRUSH button	
Left DECK SLICER mode button		SOUND COLOR FX DUB ECHO button	
Left DECK SAMPLER mode button		SOUND COLOR FX SELECT JET button	
Right DECK FX1button		CH2 FX1 assign button	
Right DECK FX2button		CH2 FX2 assign button	
Right DECK FX3 button		CH4 FX1 assign button	
Right DECK TAP (AUTO) button		CH4 FX2 assign button	
Right DECK HOT CUE mode button		OSC SAMPLER SELECT 1 button (NOISE)	
Right DECK PADFX1 button		OSC SAMPLER SELECT 2 button (SIREN)	
Right DECK SLICER mode button		OSC SAMPLER SELECT 3 button(SINE)	
Right DECK SAMPLER mode button		OSC SAMPLER SELECT 4 button (HORN)	
Headphones CUE 1 button	Storing a setting value	Left DECK BACK button	Deleting a setting value
Headphones CUE 3 button		Left DECK TAG TRACK (RELATED LIST) button	
Left DECK PLAY/PAUSE ►/II button	Acquiring an A/D conversion value	Right DECK BACK button	
Performance pads	Setting state display	Right DECK TAG TRACK (RELATED LIST) button	
Level indicator	Displaying a setting value		

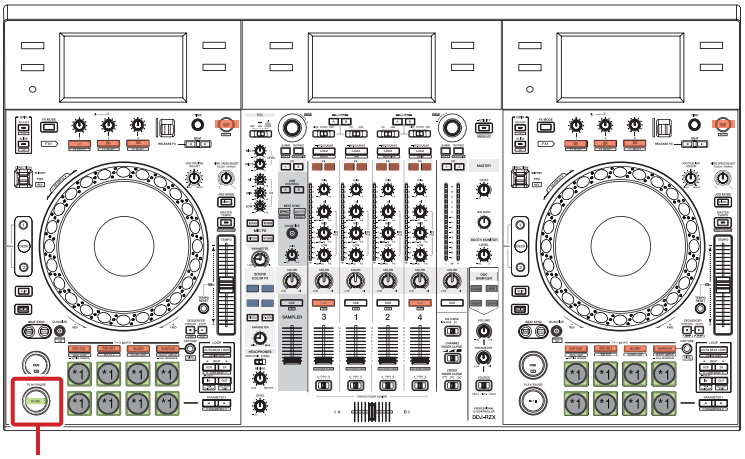
[Pad Calibration Procedure]

① Simultaneously press the CH3 Headphones CUE and CH4 Headphones CUE buttons in Service mode (①-1: Adjustment information mode)
The CH3 Headphones CUE and CH4 Headphones CUE buttons light.
All pads light in red.
The FX1, FX2, FX3, and TAP buttons on the left and right decks light.
The PLAY/PAUSE ►/II button on the left deck lights.
The FX assign buttons on the mixer lights.
SOUND COLOR FX SELECT button (SPACE, CRUSH, DUB ECHO, JET), OSC SAMPLER SELECT button light.



②-1 Simultaneous calibration of all pads

With all pads weighted down (by placing the weights on all pads), press the PLAY/PAUSE ►/II button on the left deck.
The color of the pads changes to green.
(The A/D values of the pads are obtained.)
If the A/D value of any of the pads is abnormal, that pad starts flashing in red.



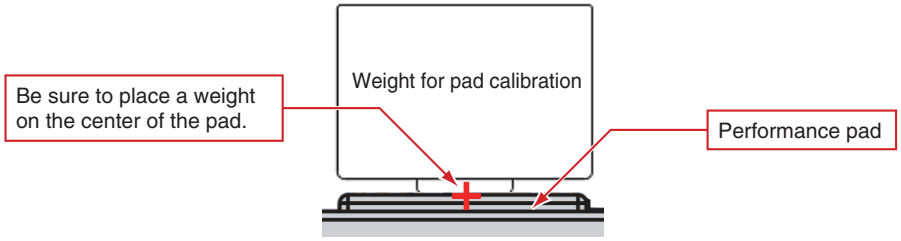
*1: Weighting

With all pads weighted down, press the PLAY/PAUSE ►/II button on the left deck.

②-2 Calibration of individual pads

While weighting a pad to be calibrated down, press the button corresponding to the pad.
(See the table and figure on the below.)
The color of the pad changes to green.
(The A/D value of the pad is obtained.)
If the A/D value is abnormal, the pad starts flashing in red.

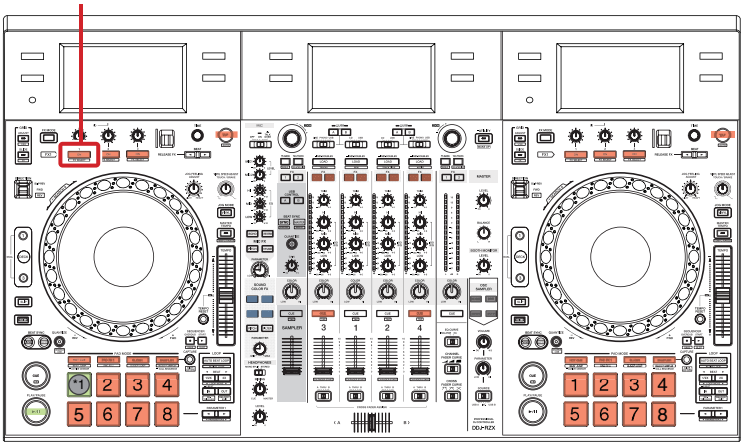
Note: To weigh a pad down, be sure to place a weight (12 mm dia.) on the center of the pad, with the convex part (contact area dia.: 10 mm) facing downward.



[List of the buttons corresponding to the pads to be calibrated]

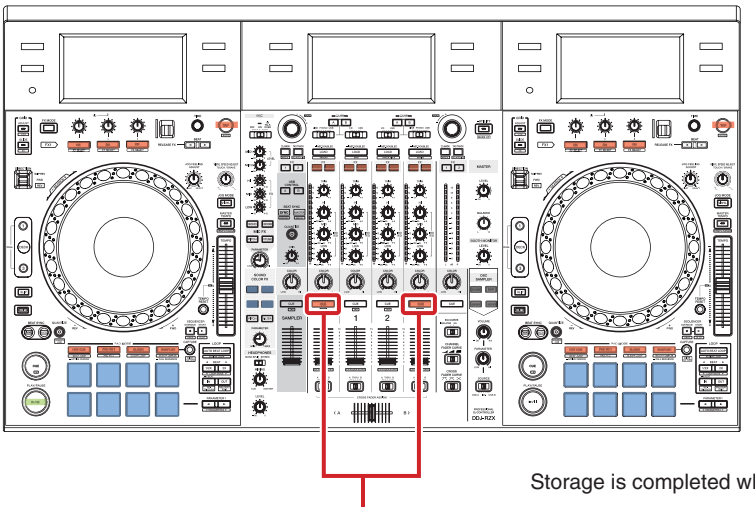
PAD	Button
Left DECK PAD1	Left DECK FX1 button
Left DECK PAD2	Left DECK FX2 button
Left DECK PAD3	Left DECK FX3 button
Left DECK PAD4	Left DECK TAP (AUTO) button
Left DECK PAD5	Left DECK HOT CUE button
Left DECK PAD6	Left DECK PAD FX1 button
Left DECK PAD7	Left DECK SLICER button
Left DECK PAD8	Left DECK SAMPLER button
Right DECK PAD1	Right DECK FX1 button
Right DECK PAD2	Right DECK FX2 button
Right DECK PAD3	Right DECK FX3 button
Right DECK PAD4	Right DECK TAP (AUTO) button
Right DECK PAD5	Right DECK HOT CUE button
Right DECK PAD6	Right DECK PAD FX1 button
Right DECK PAD7	Right DECK SLICER button
Right DECK PAD8	Right DECK SAMPLER button

Press the button corresponding to the pad being weighted down.
(Example: For pad 1 on the left deck)



*1: Weighting

③ Simultaneously press the CH3 Headphones CUE and CH4 Headphones CUE buttons.
The color of all pads changes to blue, indicating completion of storing the setting value.

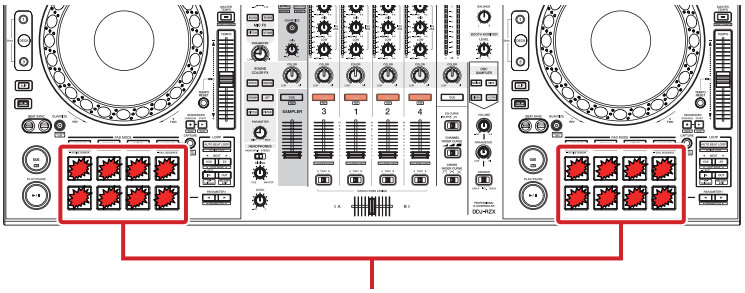


Storage is completed when the pad lighting turns blue.

Simultaneous pressing of the CH3 Headphones CUE and CH4 Headphones CUE buttons stores the setting value in the serial flash memory.

*If the CH3 Headphones CUE and CH4 Headphones CUE buttons are pressed without setting the A/D conversion value, an error indication will be displayed. (All of PAD is flashing red)

[Error indication]



In a case of a setting error, the pads flash in red.

④ Check the setting values.

If you press the button corresponding to the pad whose setting value is to be checked, the setting value will be indicated with the level indicator.

The hundreds, tens, and unit's digits are expressed with the CH1, CH2, and CH4 level indicators, respectively.

If no calibration was performed, no level indicators light.

The pad whose setting value is indicated is lit in white.

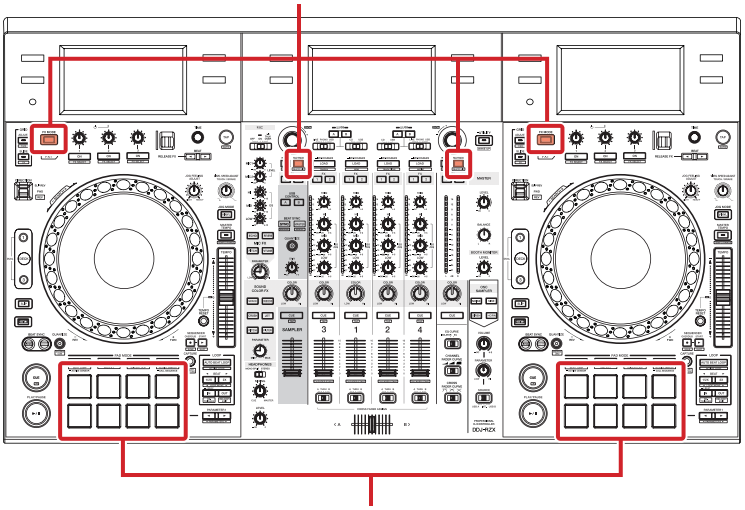
[List of the buttons corresponding to the pads

PAD No.	Button
Left DECK PAD1	CH3 FX1 assign button
Left DECK PAD2	CH3 FX2 assign button
Left DECK PAD3	CH1 FX1 assign button
Left DECK PAD4	CH1 FX2 assign button
Left DECK PAD5	SOUND COLOR FX SELECT SPAC Ebutton
Left DECK PAD6	SOUND COLOR FX SELECT CRUSH button
Left DECK PAD7	SOUND COLOR FX SELECT DUB ECHO button
Left DECK PAD8	SOUND COLOR FX SELECT JET button
Right DECK PAD1	CH2 FX1 assign button
Right DECK PAD2	CH2 FX2 assign button
Right DECK PAD3	CH4 FX1 assign button
Right DECK PAD4	CH4 FX2 assign button
Right DECK PAD5	Right DECK OSC SAMPLER SELECT1 (NOISE) button
Right DECK PAD6	Right DECK OSC SAMPLER SELECT3 (SIREN) button
Right DECK PAD7	Right DECK OSC SAMPLER SELECT2 (SINE) button
Right DECK PAD8	Right DECK OSC SAMPLER SELECT4 (HORN) button

[Deletion of the setting values]

Simultaneously press the FX MODE and TAG TRACK (RELATED LIST) buttons on the left and right decks.
All pads light in white, indicating completion of deletion of the setting values.

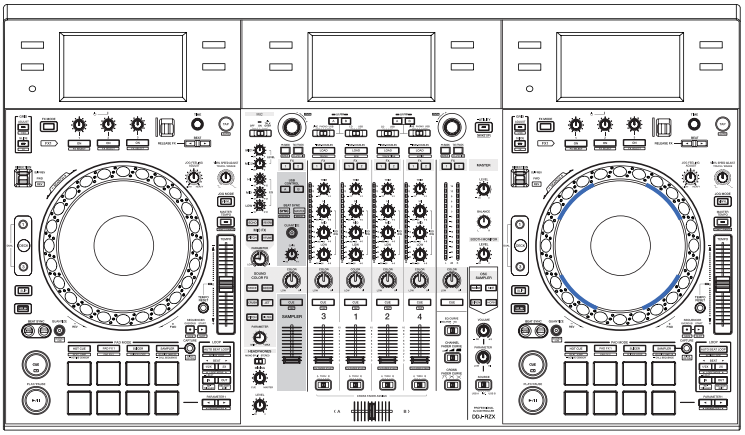
Simultaneous pressing of the FX MODE and TAG TRACK (RELATED LIST) buttons on the left and right decks deletes the setting values stored in the serial flash memory.



Deletion is completed when the color of all pads changes to white.

[Error indication when no calibration is performed]

With no calibration, the Jog ring LEDs on the right deck flash in blue.



①-6: PAD AD value check mode

This mode is for confirming if the A/D value changes in response to force applied to a pad.

[Operation procedure]

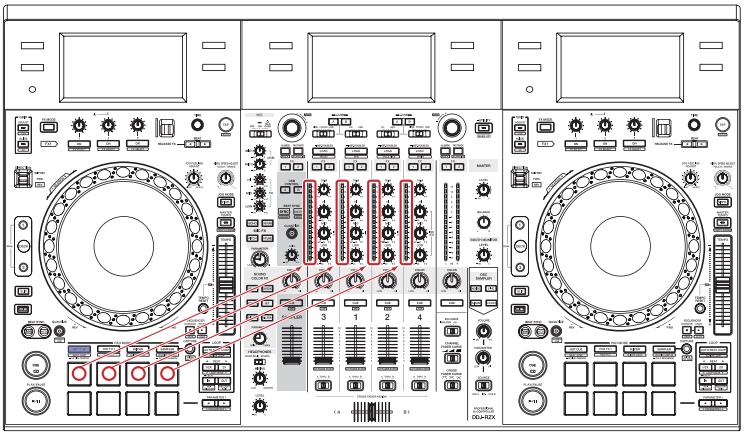
① Simultaneously press the HOT CUE mode buttons on the left and right decks.
The HOT CUE mode button on the left deck lights.

② Press the HOT CUE mode, PAD FX1 mode, SLICER mode, or SAMPLER mode button on the left deck, depending on the pad to be checked.

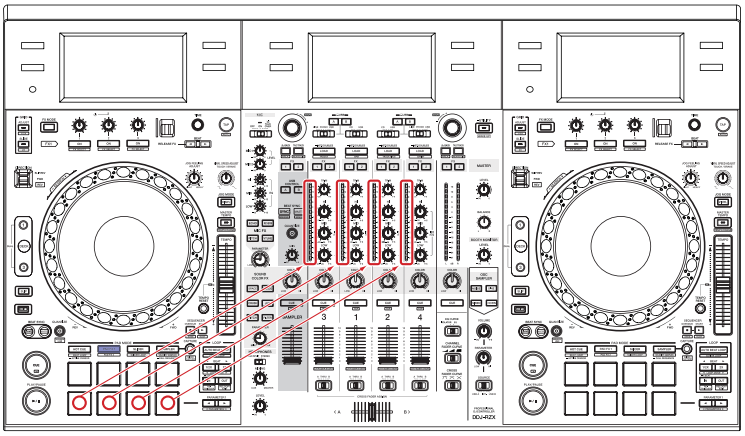
HOTCUE mode button	: Pads 1 to 4 on the left deck
PAD FX1 mode button	: Pads 5 to 8 on the left deck
SLICER mode button	: Pads 1 to 4 on the right deck
SAMPLER mode button	: Pads 5 to 8 on the right deck

③ The level indicator oscillates in response to force applied to the pad.

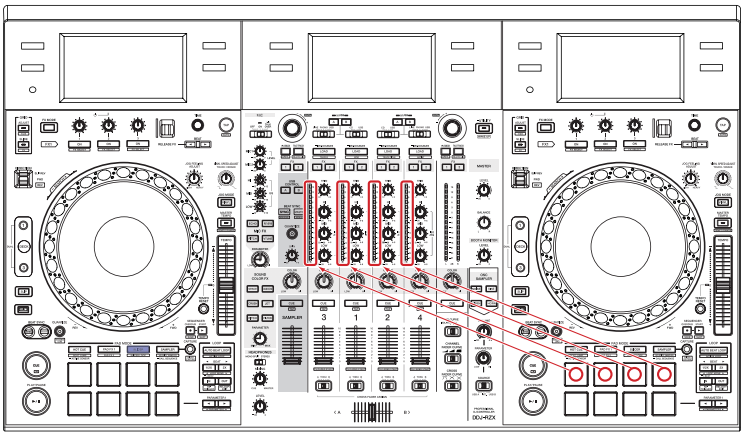
[HOTCUE]



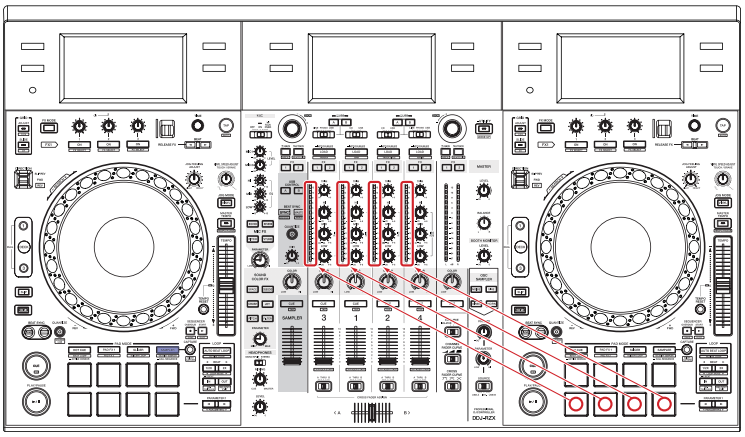
[PAD FX1]



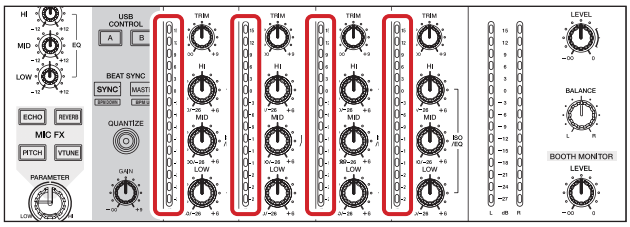
[SLICER]



[SAMPLER]



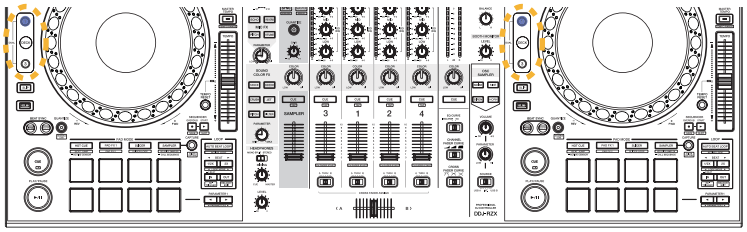
[Indication example of the level indicators]



Measurement result
(indicated in 15 steps, with the value at 3.3 V as the maximum value)

①-7: Measurement mode of the load of JOG dial

This mode is for measuring the load on the Jog dials.
Enter the measurement mode by turning on the power while pressing both left DECK SYNC and left DECK 3 button, when executing service mode (①-1: Adjustment information mode). The DECK 1 to 4 buttons light in this mode.
Each right and left mean value is displayed on the LCD.



[Operation procedure]

① Turn the Jog dial whose rotation time is to be measured.
Measurement will start after the rotation speed of the Jog dial reaches or surpasses 7 times normal speed.
If the rotation speed of the Jog dial does not reach 7 times normal speed, the indication ADJUST LED on the same deck as the Jog dial being tested is located lights. Rotate the Jog dial again.

② The time required for the Jog dial to decrease its rotation speed from 3 times to 1.5 times normal speed will be indicated in msec.
The previous mean value is displayed every time rotating.

[Indications of measurement results and the number of sessions in which out-of-range values were obtained]

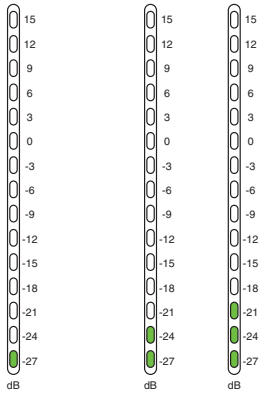
- The number of sessions (1–4) in which the time required for slowdown was 270 msec or longer is indicated with the FX SELECT 1 to 3 and TAP (AUTO) buttons on the same deck as the Jog dial being tested is located. Any such sessions exceeding five will not be counted.
- The number of sessions (1–4) in which the time required for slowdown was 100 msec or shorter is indicated with the SLIDE, SLIP, SYNC, and MASTER buttons on the same deck as the Jog dial being tested is located. Any such sessions exceeding five will not be counted.

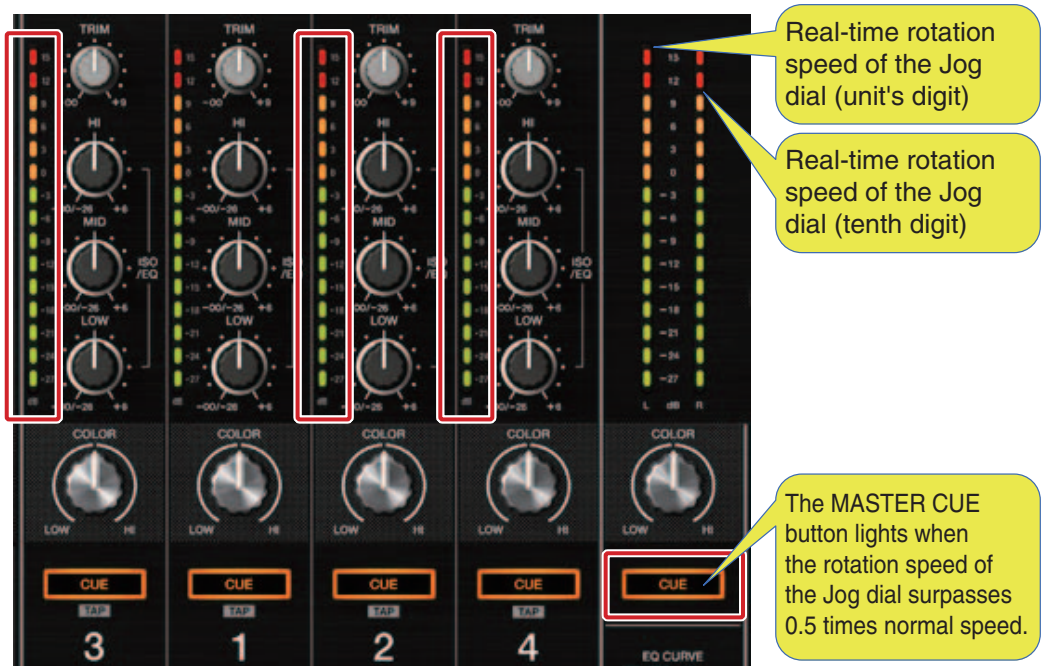
[Indication of a measurement result]

The measured time required for slowdown is expressed with the channel level indicators, as shown below.
You can confirm if the rotation speed of the Jog dial reaches 0.5 times normal speed with the MASTER CUE button.

measurement result (* msec)**

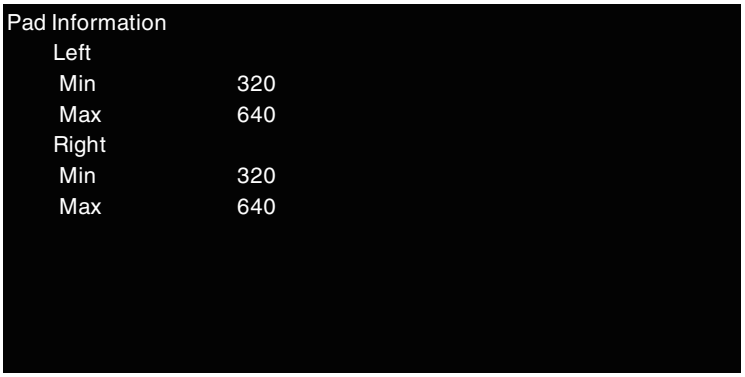
(Example)
The figure below shows the result of 123 msec.





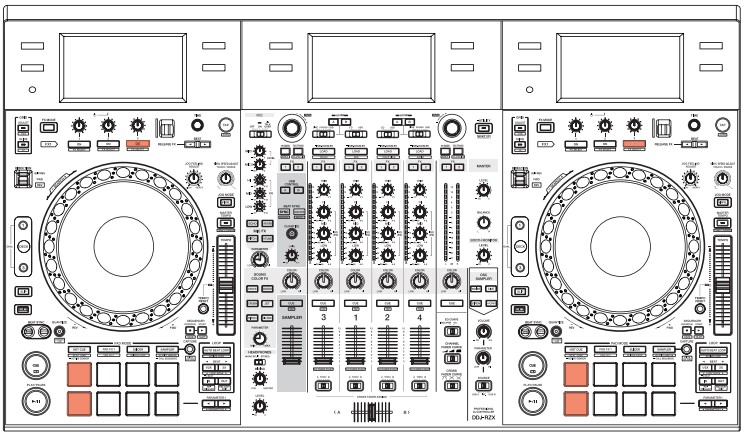
①-8: RELEASE FX lever adjustment mode

To RELEASE FX lever adjustment mode, simultaneously press the FX3 buttons on the left and right decks in Service mode (①-1: Adjustment information mode)
When the calibration is completed and the result is stored, the result is displayed.
When confirming the calibration result, enter this mode first, and confirm the result, then exit the mode by the BACK button after confirmation.

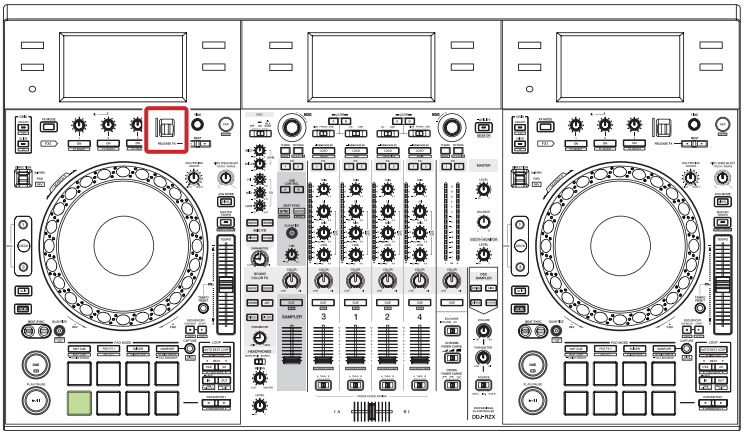


[RELEASE FX lever adjustment mode Procedure]

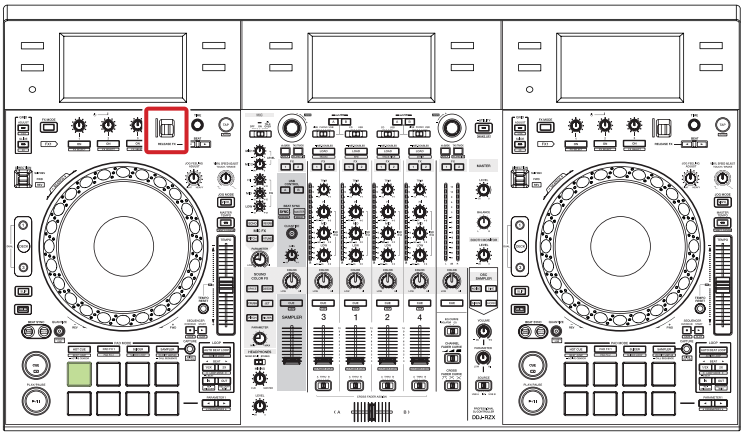
① Simultaneously press the FX3 buttons on the left and right decks in Service mode
(①-1: Adjustment information mode)
The FX3 button on the left and right decks lights.
Pad 5 and pad 1 on the left and right decks light in red.



② Press the left DECK PAD 5, pushing down the left DECK RELEASE FX lever to the maximum position.
The color of pad 5 on the left deck changes to green. (The maximum value for the RELEASE FX lever is obtained.)
If the obtained value is incorrect, an error indication will be displayed.

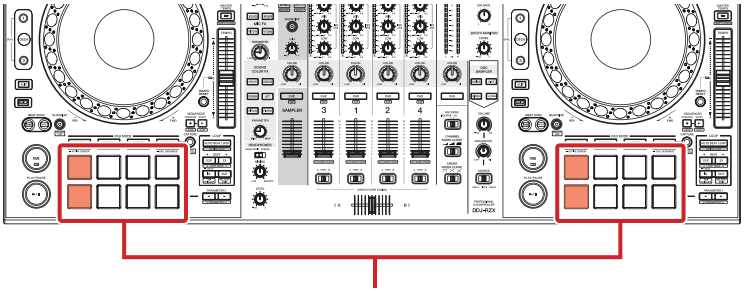


③ Press the left DECK PAD 1, moving slowly the left DECK RELEASE FX lever to the most pulling back position.
The color of pad 1 on the left deck changes to green. (The minimum value for the RELEASE FX lever is obtained.)
If the obtained value is incorrect, an error indication will be displayed.



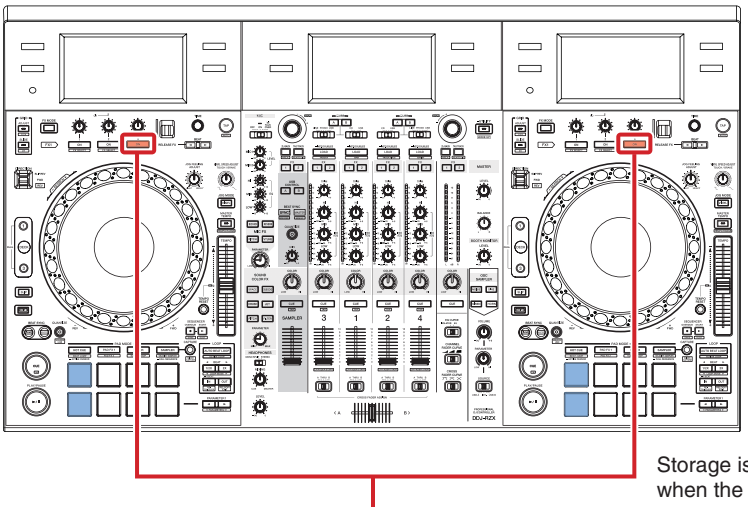
Execute the right DECK same way. Replace the "left DECK" to "right DECK". (Repeat ② to ③.)

[Error indication]



In a case of a setting error, the pad 5 and pad 1 on the deck where the error has occurred flash in red.

④ Press the right and left DECK FX3 simultaneously after completing the adjustment of right and left DECK.
The color of pad 5 and pad 1 on the each deck changes to blue. (Completion of storing the setting values)

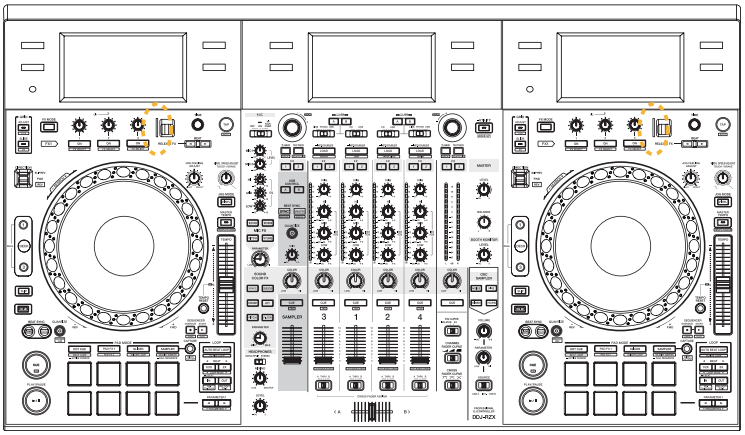


Storage is completed
when the pad lighting turns blue.

Simultaneous pressing of the right and left DECK FX3 buttons stores the setting values in the serial flash memory.

⑤ Check the setting values.
When pressing the each DECK PAD 5/PAD 1, the setting maximam value/minimum value is displayed on the level indicator.
The hundreds, tens, and unit's digits are expressed with the CH1, CH2, and CH4 level indicators, respectively.
If no calibration was performed, no level indicators light.

[Error indication when no calibration is performed]
When the calibration is not executed, the RELEASE FX indicator on the no calibration side is flashing.



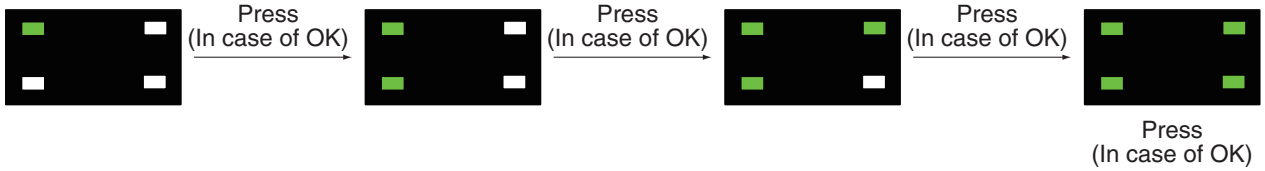
①-9: Touch panel checking mode

When executing yhe service mode (①-1: Adjustment information mode), press the right and left VIEW and SINGLE buttons on center LCD simultaneously, and enters to the touch panel checking mode.
If touch panel checking has already done, it is necessary to clear the result by the service mode (①-3: Factory reset mode) before performing the touch panel checking. When performing the factory reset, note the user settings according to the "8.3 ITEMS FOR WHICH USER SETTINGS ARE AVAILABLE" .
By returning to service mode (①-1: Adjustment information mode) and then displays the result, it is possible to check the touch panel checking has already done or not. The LCD which is completed normally is displayed as "0" .

The judgement OK is identified by the test result is positioned inside the picture area for judgement.

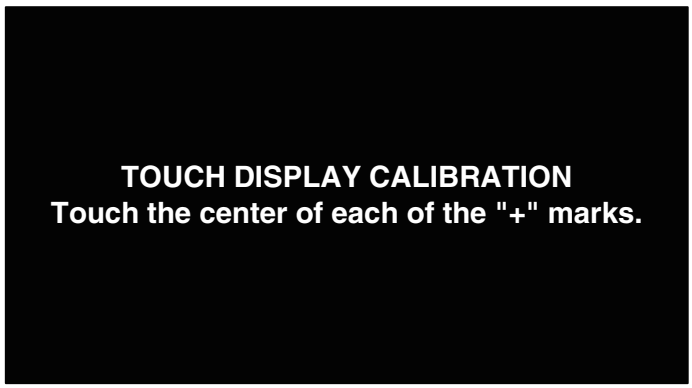
[Picture transit]

By pressing the eithet BACK button of right and left DECK, exit the mode, and returns to service mode (①-1: Adjustment information mode), and then displays the result. (The LCD which is Not complied with or not carried out to the last test is displayed as " - ", and the LCD which is completed normally is displayed as " 0 ". Besides, the upper right side square button of LCD blinks for caution if there is a LCD which is not completed normally.



When the each LCD is OK on four points (all 12 points because it is composed of 3 LCDs), the mode returns to service mode (①-1: Adjustment information mode) automatically.
The 12 points is able to operate by touching from any points.
The result is cleared (reset) on the service mode (①-3: Factory reset mode).

①-10: Touch panel calibration mode



The touch panel calibration is completed by touching the center " + " mark displayed in order, and storing the calibration value by pressing all 4 points.
(Returns to service mode (①-1: Adjustment information mode), and displays the result).

And when the BACK button is pressed on the way, the calibration value is not stored and the touch panel calibration mode is finished, (Returns to service mode (①-1: Adjustment information mode), and displays the result).
And the lower right side square button of LCD blinks for caution in this case.

①-11: LCD brightness individually caribration mode

[LCD brightness individually caribration mode Procedure]

① Enter to LCD brightness individually caribration mode

② 3 LCD displays turn to all-white color (adjusting picture)

③ Carry out fine-tuning of brightness by right side button of each LCD.
For center LCD, it is able to change brightness by pressing SINGLE and MULTI buttons.
The adjusting cover range is ±25% to the all adjusting range.
The current adjusting value is displayed on the center LCD.

④ The pictre display is transited to the following way by pressing the left VIEW button of center LCD.
(3 LCD displays are transited simultaneously.)
all-white ⇒R ⇒G ⇒B ⇒color bar ⇒all-white・・・

When there is a difference between each pictures, adjust again by right side button of each LCD.

⑤ Exit from the mode by pressing either right and left DECK BACK button.

*When adjusting brightness by the UTILITY mode, the offset part in primary adjustment is reflected.

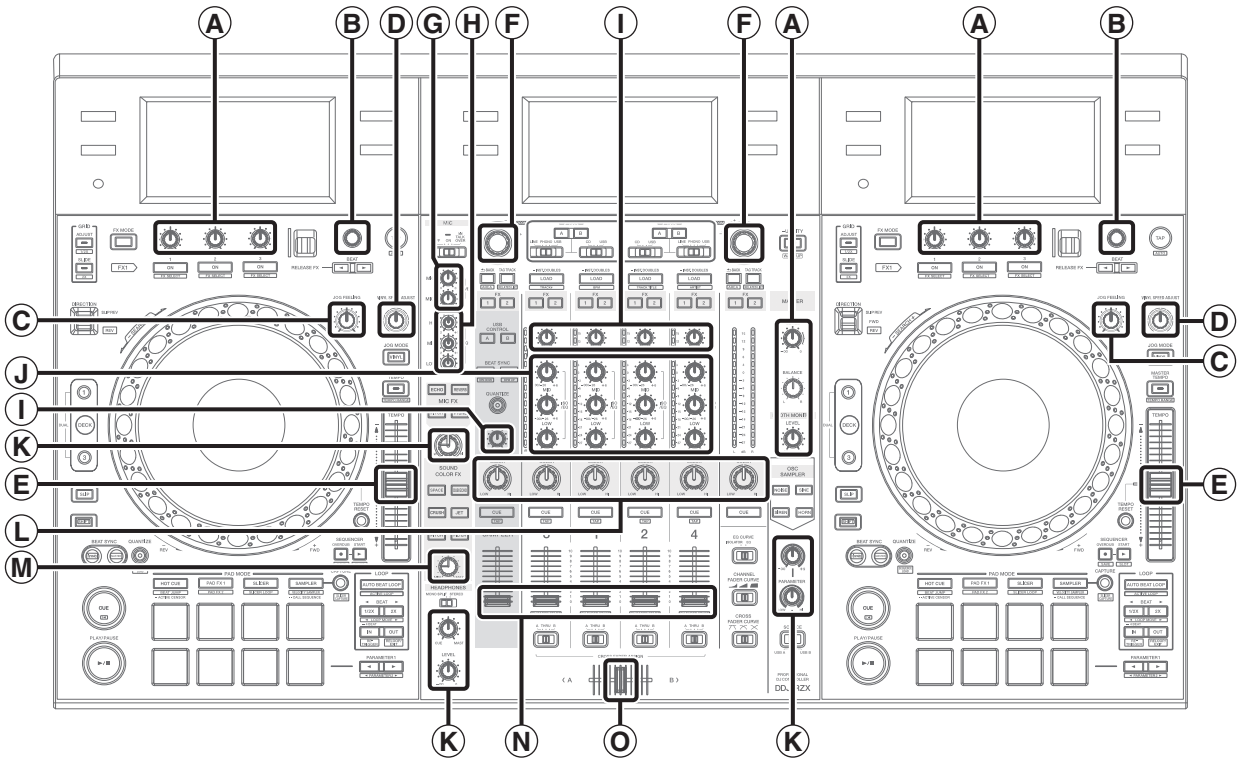
6.2 ABOUT THE DEVICE

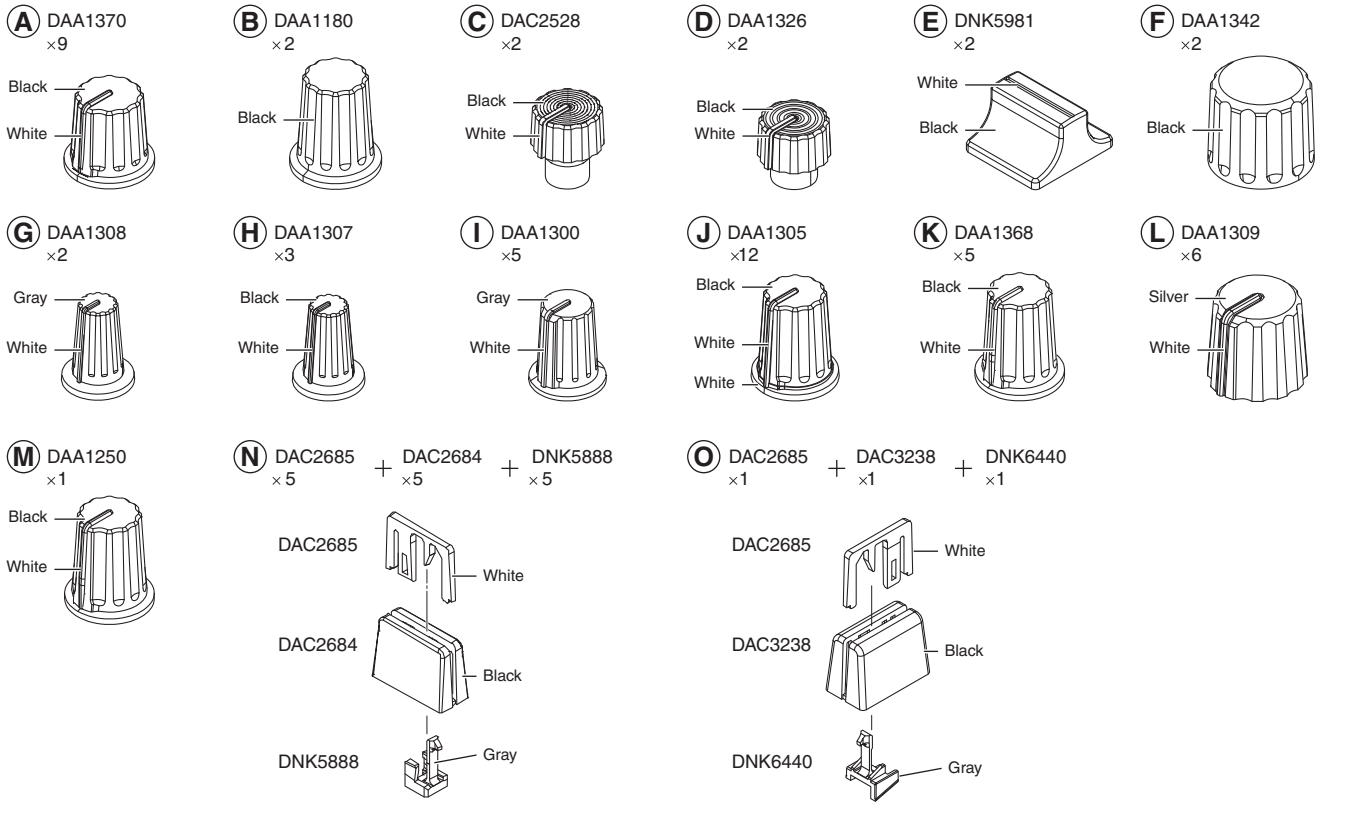
Device Name	Function	Part number	Ref. No.	Assy
IMX6 /Application Processor	Control for 3 LCDs USB device control	MCIMX6Q5EYM10AD-K	IC501	LCDM Assy
DRAM (DDR3 1Gbit x2)	DRAM for I.MX6	W631GG6KB-12-K	IC601, IC602	LCDM Assy
NAND Flash (2 Gbit)	For storing I.MX6 program	MX30LF2G18AC-TI-K	IC802	LCDM Assy
PMIC for I.MX6	Power generating and power control for I.MX6	MMPF0100F0AEP-K	IC401	LCDM Assy
USB Controller	USB device control Transfer USB data to I.MX6	S2R72V27-K	IC851	LCDM Assy
HDMI Reciever IC	Convert the HDMI signal from I.MX6 to RGB signal for LCD.	TFP401APZP-K	IC1201	LCDM Assy
LVDS Reciever IC	Convert the LVDS signal from I.MX6 to RGB signal for LCD.	BU90R104-TBB	IC1701	LCDP Assy
7inch TFT LCD	7 inch LCD	CWX4352-A	Connect to the CN1401 (LCDM), CN1901 (LCDP)	
LCD Backlight IC	Backlight control IC	BD81A04EFV-M-TBB	IC1351, IC1851	LCDM Assy, LCDP Assy
Touch Panel	Touch panel for LCD part	DSX1128-A	Connect to the CN1381 (LCDM), CN1881 (LCDP)	
Touch Panel Controller	LCD touch panel control IC Data is transferred to I.MX6.	AK4187VN-TLB	IC1381, IC1881	LCDM Assy, LCDP Assy
DSP (D810 x2) (SDSP/DSP2)	Audio control IC Sampling rate conversion	D810K013DZKB456-K	IC2601, IC3101	MAIN Assy
DRAM (SDRAM 256 Mbit x2)	DRAM for DSP	M12L2561616A-5TG2S-K	IC2801, IC2851	MAIN Assy
AM3352 /Application Processor	Main microcomputer USB device control USB HUB control Control of the microcomputer for operation buttons Audio processing Control for operation buttons/LED	AM3352BZCZ80-K	IC1701	MAIN Assy
DRAM (DDR3 1 Gbit)	DRAM for AM3352	W631GG6KB-12-K	IC1802	LCDM Assy
PMIC for AM3352	Power generation and control for AM3352	TPS65910A31A1RSL-TLB	IC1601	MAIN Assy
NOR Flash (64 Mbit)	For storing program for AM3352/DSP	MX29LV640ETTI-70G-K	IC2006	MAIN Assy
USB HUB	USB HUB Two USB B terminal Connecting to AM3352, I.MX6 and USB controller	USB2512B-AEZG-TR-TBB	IC4901, IC4951	MAIN Assy
Clock Generator	Generating the audio clock Supplying to AM3352, DSP, DAC and ADC	SI5351C-B03300GM-TBB	IC3602	MAIN Assy
AUDIO DAC	Master DAC	AK4490EQ-TLB	IC3701	MAIN Assy
	Booth DAC	AK4382AVT-TBB	IC3901	
	Headphone DAC	AK4387ET-TBB	IC4501	
AUDIO ADC	ADC for INPUT 1ch to 4ch and microphone	AK5381VT-TBB	IC4103, IC4205, IC4303, IC4405, IC4603	MAIN Assy
High-side SW IC	Current monitoring IC	BD2232G-G-TRB	IC1154, IC1155, IC1157, IC1452, IC1453, IC1454	MAIN Assy
PNL UOCM (PNL1/PNL2)	Standby control Transferring the operation buttons data to AM3352	R5F364AENFA-U0	IC7001, IC7005	STMO Assy
JOG FL	For displaying JOG information	DEL1074-A	V6001, V6101	JFLB1 Assy, JFLB2 Assy

7. DISASSEMBLY

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

Knobs and Volumes Location



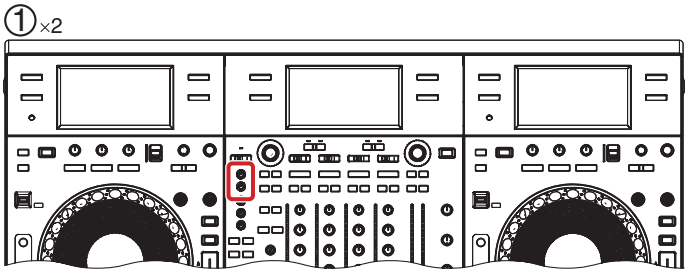


Disassembly

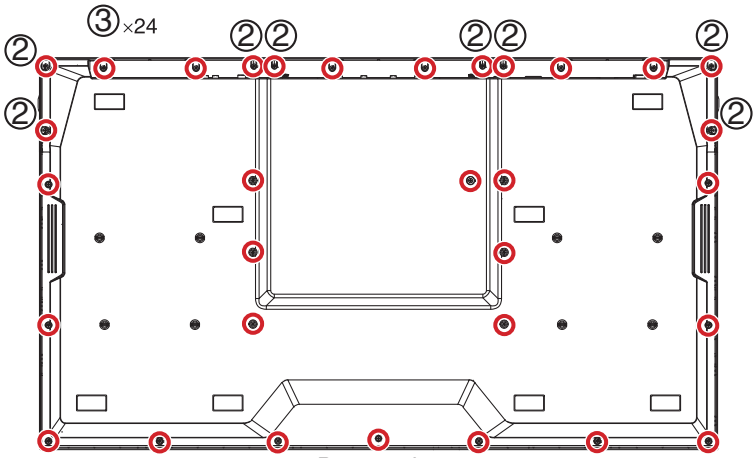
[1] Chassis Section

• Bottom Section

(1) Remove the 2 Knobs/RSW.

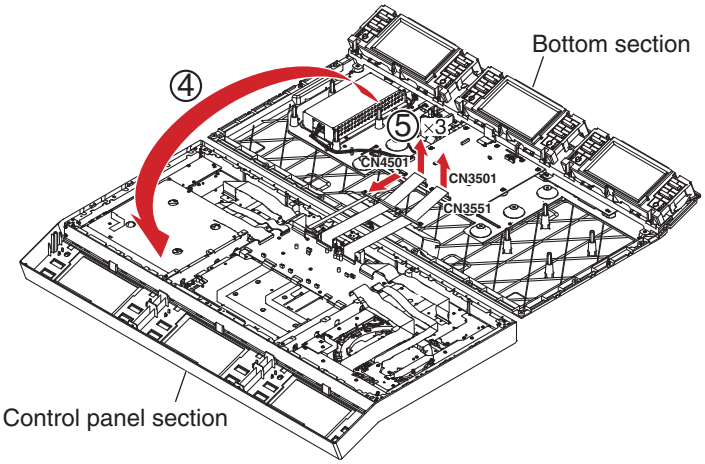


(2) Remove the 8 screws.
(BPZ30P140FTB)
(3) Remove the 24 screws.
(BBZ30P100FTB)

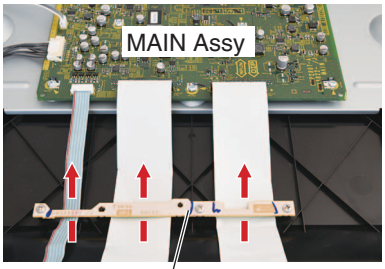


• Bottom view

(4) Remove the Control panel section.
(5) Disconnect the 2 flexible cables and 1 connector.
(CN3501, 3551, 4501)

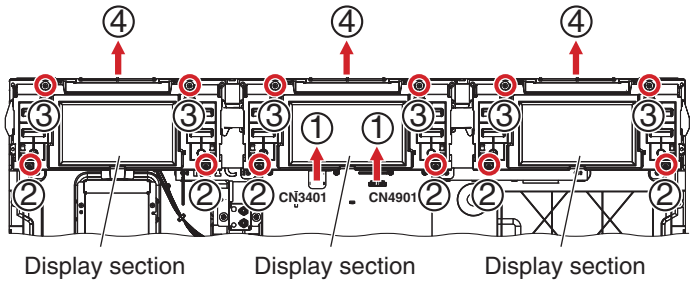


Jumper wires styling

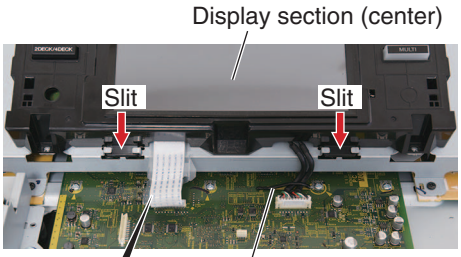


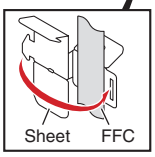
• Display Section

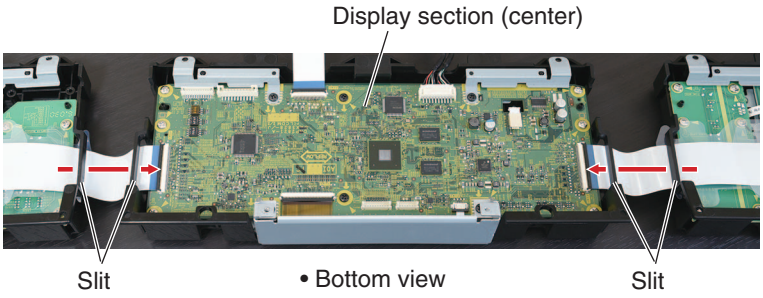
(1) Disconnect the 1 flexible cable and 1 connector. (CN3401, 4901)
(2) Remove the 6 screws. (IBZ30P080FTB)
(3) Remove the 6 screws. (DBA1260)
(4) Remove the 3 display sections.



Jumper wires styling

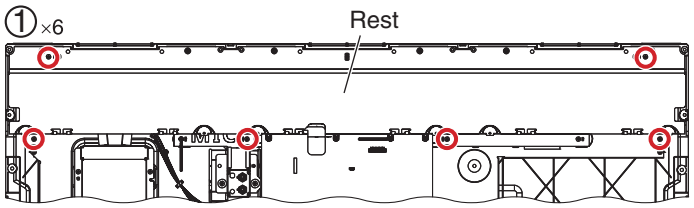




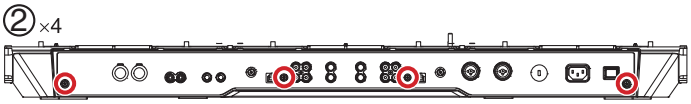


• Chassis Section

(1) Remove the Rest, by removing the 6 screws. (IBZ30P080FTB)

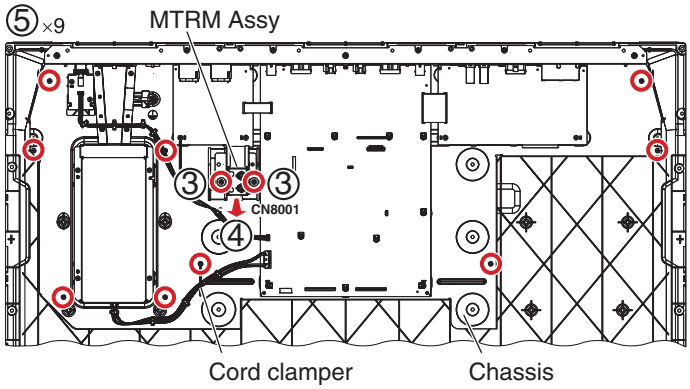


(2) Remove the 4 screws. (BSZ30P060FTB)



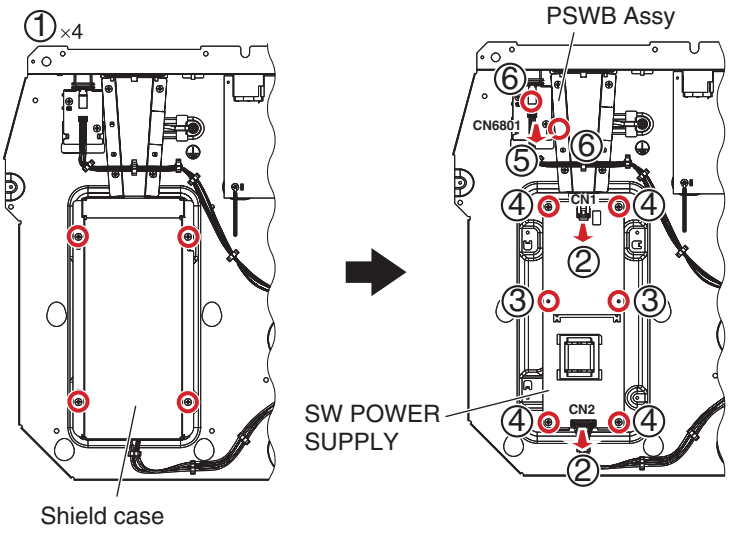
• Rear view

(3) Remove the 2 screws. (DBA1260)
(4) Disconnect the MTRM Assy with stay from the connector. (CN8001)
(5) Remove the Chassis with PC boards, by removing the 9 screws. (BPZ30P080FNI)



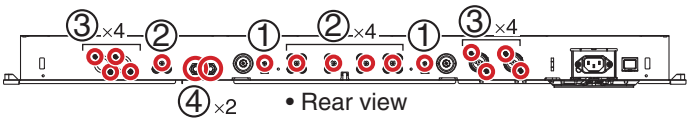
• SW POWER SUPPLY and PSWB Assy

(1) Remove the Shield case, by removing the 4 screws.
(BBZ30P060FTC)
(2) Disconnect the 2 connectors.
(CN1, 2)
(3) Disconnect the 2 PCB holders.
(4) Remove the SW POWER SUPPLY, by removing the 2 screws.
(BBZ30P060FTC)
(5) Disconnect the 1 connector.
(CN6801)
(6) Remove the PSWB Assy, by removing the 2 screws.
(BBZ30P060FTC)

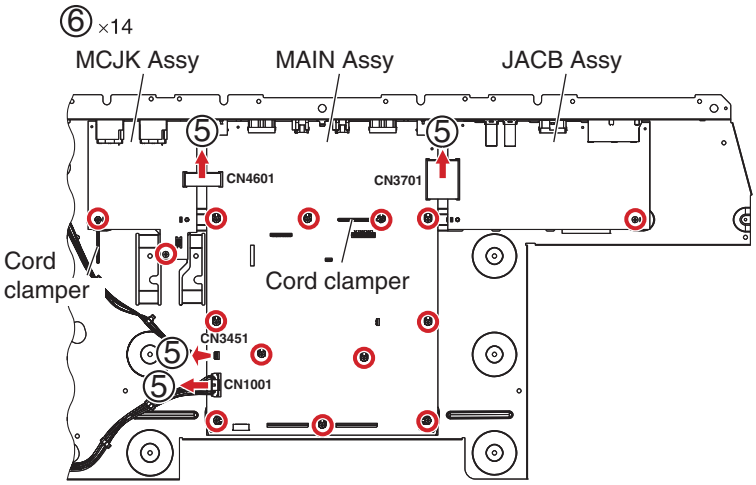


• MAIN, JACB and MCJK Assemblies

(1) Remove the 2 screws.
(DBA1340)
(2) Remove the 5 screws.
(BPZ30P080FTB)
(3) Remove the 8 screws.
(PPZ30P080FTB)
(4) Remove the 2 nuts.
(NKX2FNI)

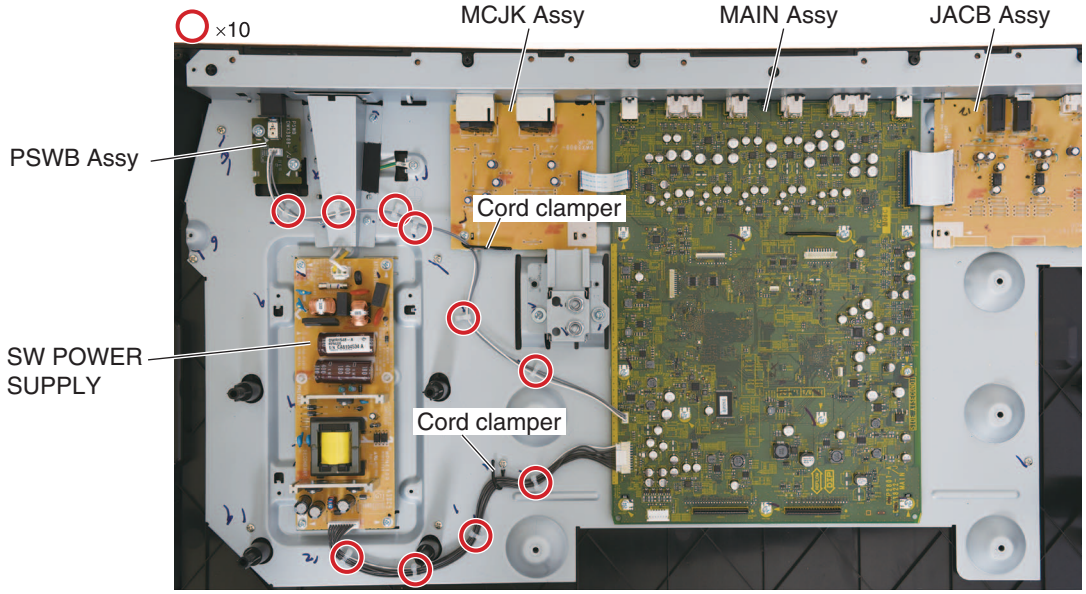


(5) Disconnect the 2 flexible cables and 2 connectors.
(CN1001, 3451, 3701, 4601)
(6) Remove the MAIN, JACB and MCJK Assemblies, by removing the 14 screws.
(BBZ30P060FTC)



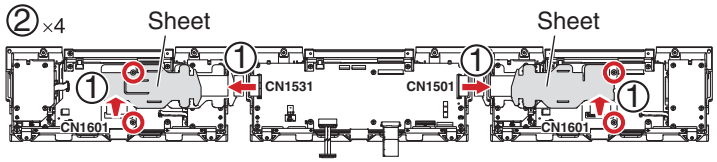
Jumper wires styling

: Holder



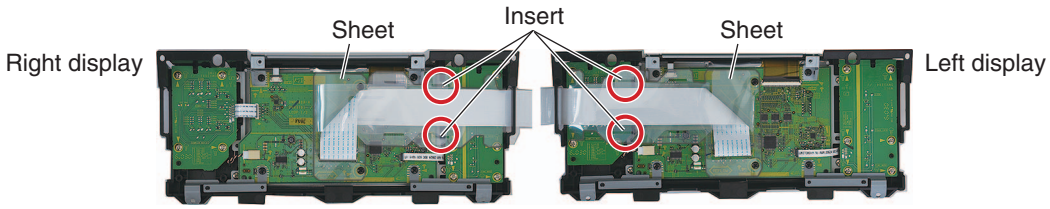
[2] Display Section

(1) Disconnect the 2 flexible cables (4 points).
(CN1501, 1531, 1601)
(2) Remove the 2 Sheets, by removing the 4 screws.
(BBZ30P080FTB)



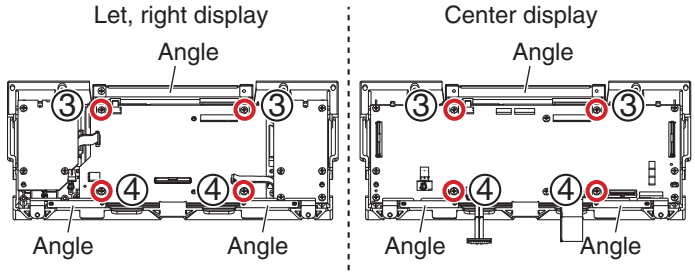
• Bottom view

Jumper wires styling



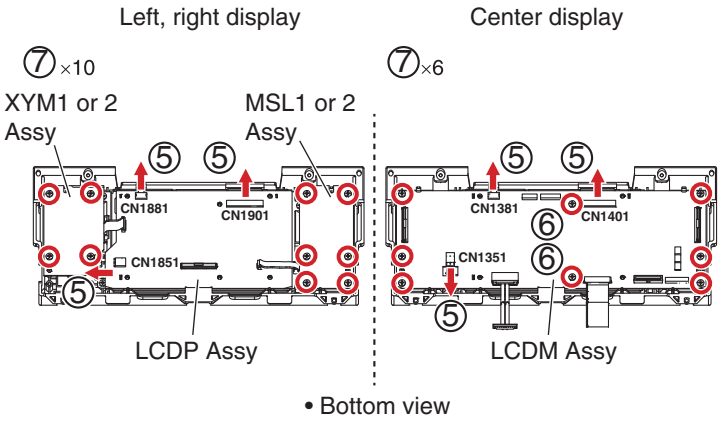
• Bottom view

(3) Remove the Angle, by removing the 2 screws.
(BBZ30P080FTB)
(4) Remove the 2 Angles, by removing the 2 screws.
(BBZ30P080FTB)

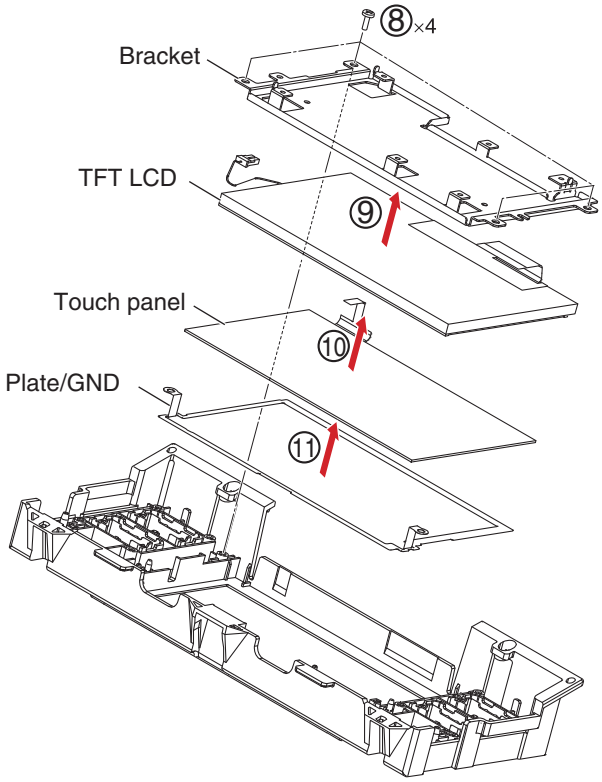


• Bottom view

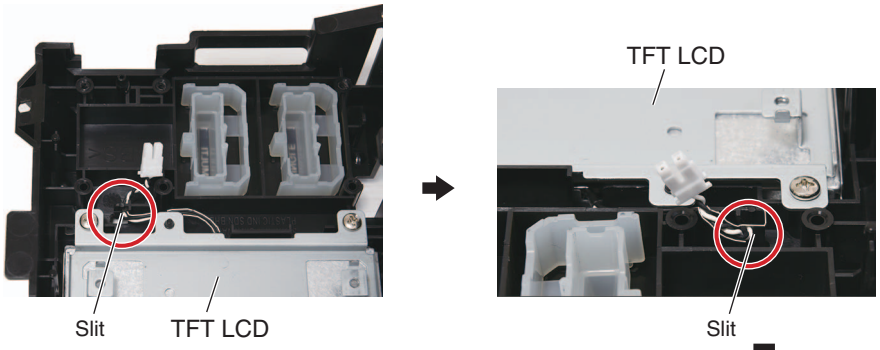
(5) Disconnect the 5 flexible cables and 1 connector.
(CN1351, 1381, 1401, 1851, 1881, 1901)
(6) Remove the 2 screws. (center only)
(BBZ30P080FTB)
(7) Remove the LCDM Assy by removing the 6 screws. (center)
(BPZ30P080FNI)
Remove the LCDP, XYM1 or 2, MSL1 or 2 Assemblies, by removing the 10 screws. (Left, right)
(BPZ30P080FNI)



(8) Remove the Bracket, by removing the 4 screws.
(BPZ30P080FNI)
(9) Remove the TFT LCD.
(10) Remove the Touch panel.
(11) Remove the Plate/GND.



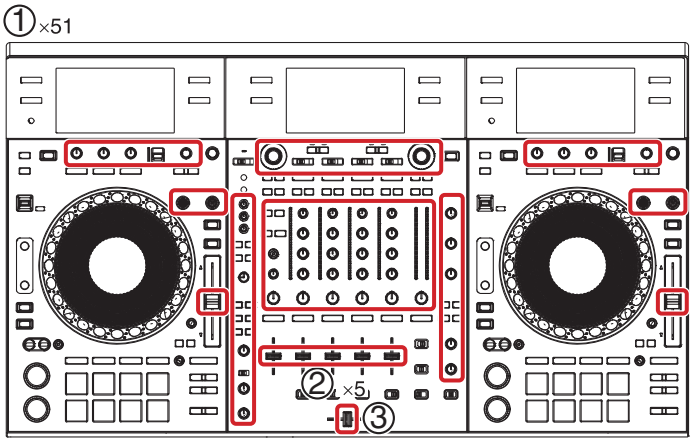
Jumper wires styling



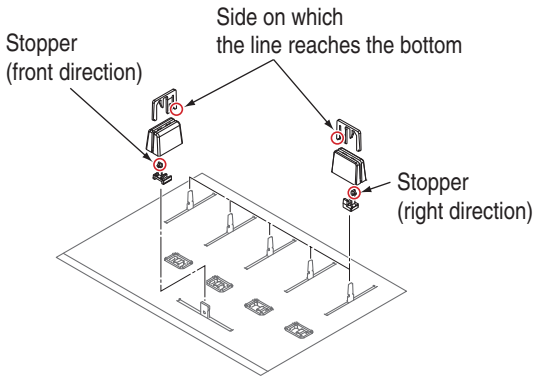
[3] Control panel Section

• Knobs etc.

(1) Remove the all knobs.
(2) Remove the 5 Slider knobs 2, 5 Slider knobs 1, and 5 Slider knob stopper. (See below.)
(3) Remove the Slider knobs 2, knob, and stopper. (See below.)



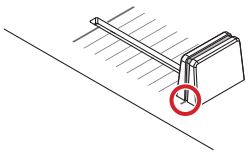
The reference of the direction



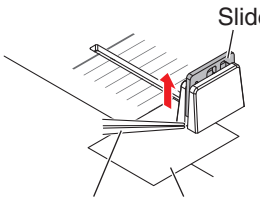
• Disassembly of the slider knob

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

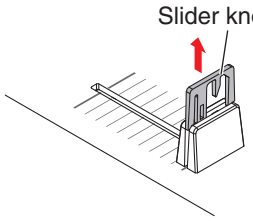
① Find the side on which the line reaches the bottom.



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

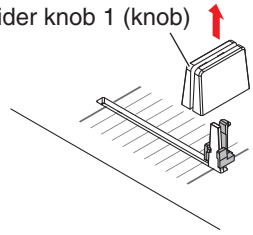


③ Remove the Slider knob 2.

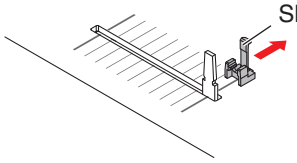


*: During reassembly, fully push down Slider knob 2 until it is dented into Slider knob 1.

④ Remove the Slider knob 1 (knob).



⑤ Remove the Slider knob stopper (Stopper).

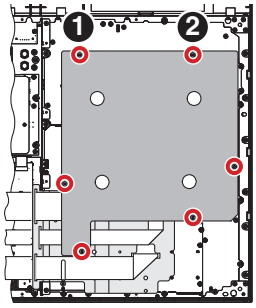


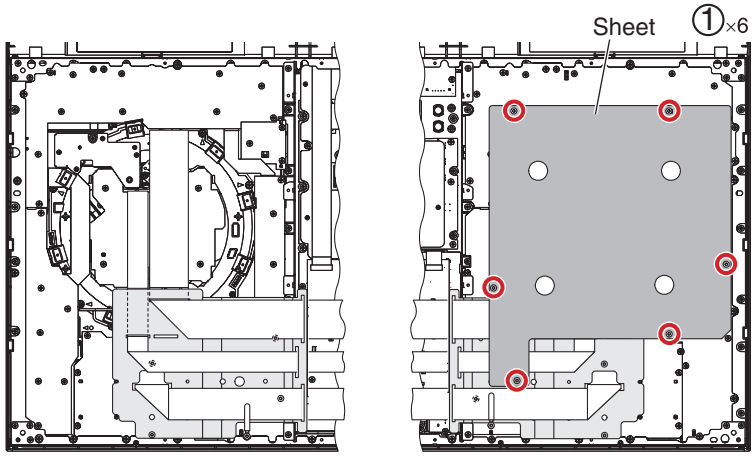
• **Decks Section**

(1) Remove the Sheet, by removing the 6 screws. (BPZ30P080FNI)

Screw tightening order

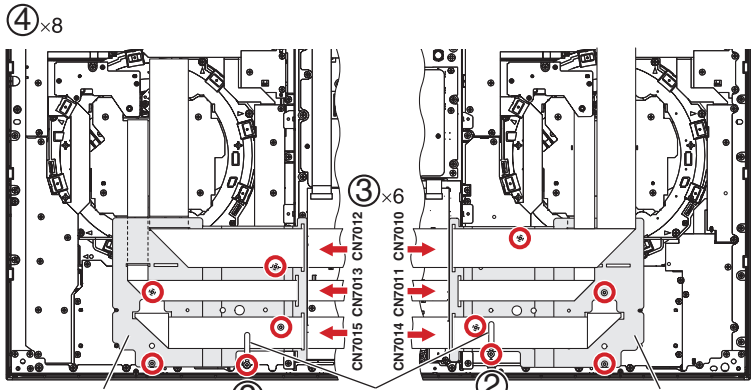
The other screws are random order.





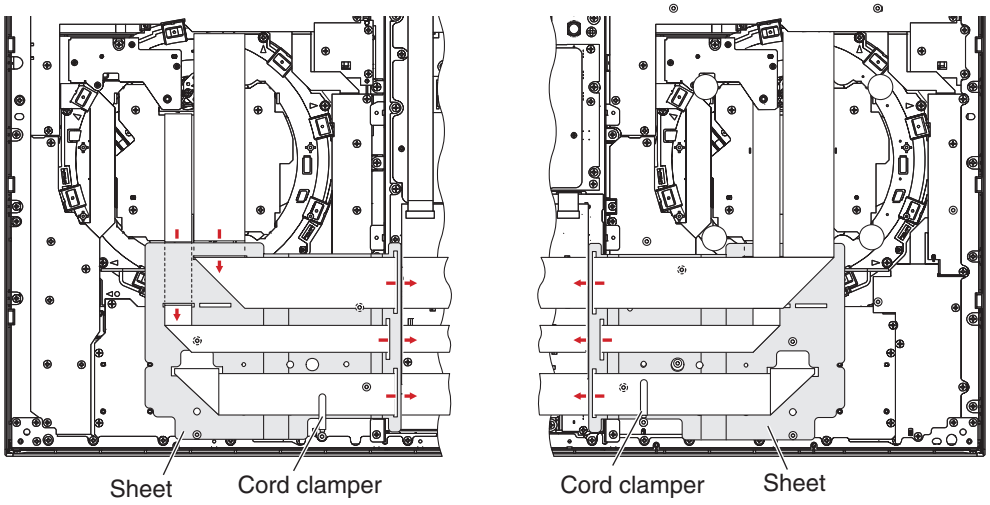
• Bottom view

(2) Remove the 2 Cord clampers, by removing the 2 screws. (BPZ30P080FNI)
(3) Disconnect the 6 flexible cables. (CN7010-7015)
(4) Remove the 2 Sheets, by removing the 8 screws. (BPZ30P080FNI)

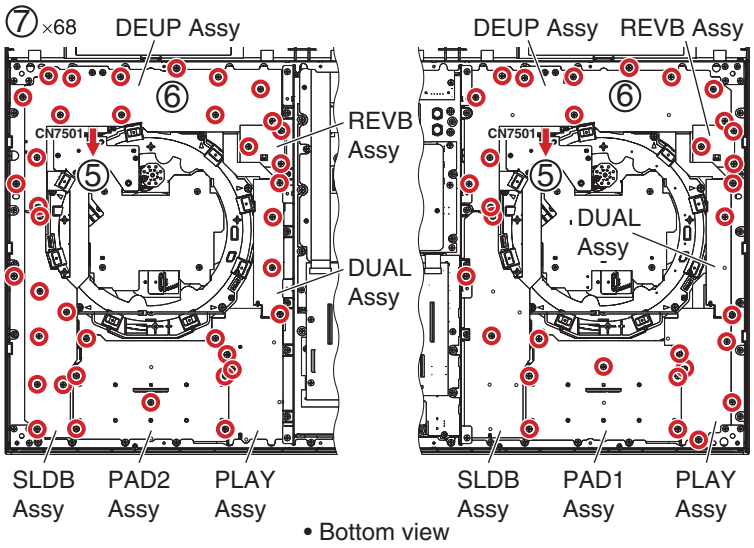


• Bottom view

Jumper wires styling



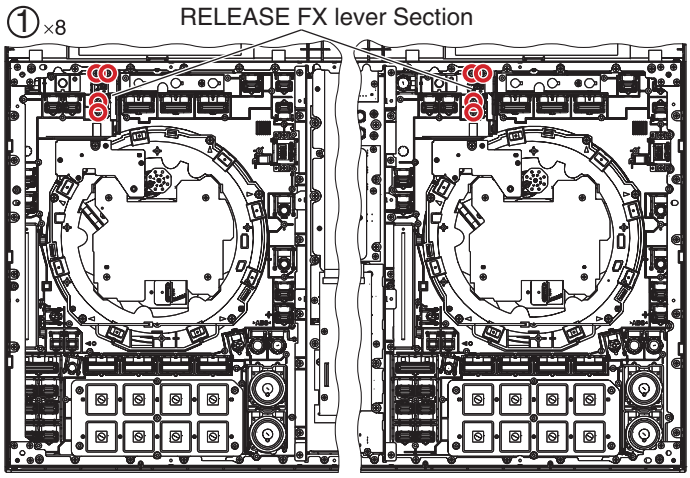
(5) Disconnect the 2 flexible cables. (CN7501)
(6) Remove the 2 screws. (BPZ30P100FTC)
(7) Remove the DEUP, SLDB, REVB, DUAL, PLAY, PAD1 and PAD2 Assemblies. (BPZ30P080FNI)



• Bottom view

• RELEASE FX lever Section

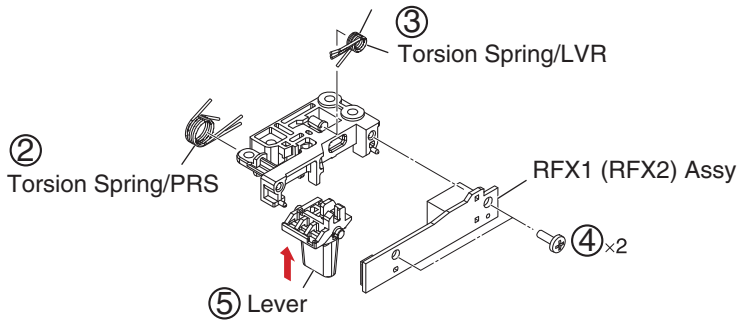
(1) Remove the 2 RELEASE FX lever sections, by removing the 8 screws. (BPZ30P100FTC)



• Bottom view

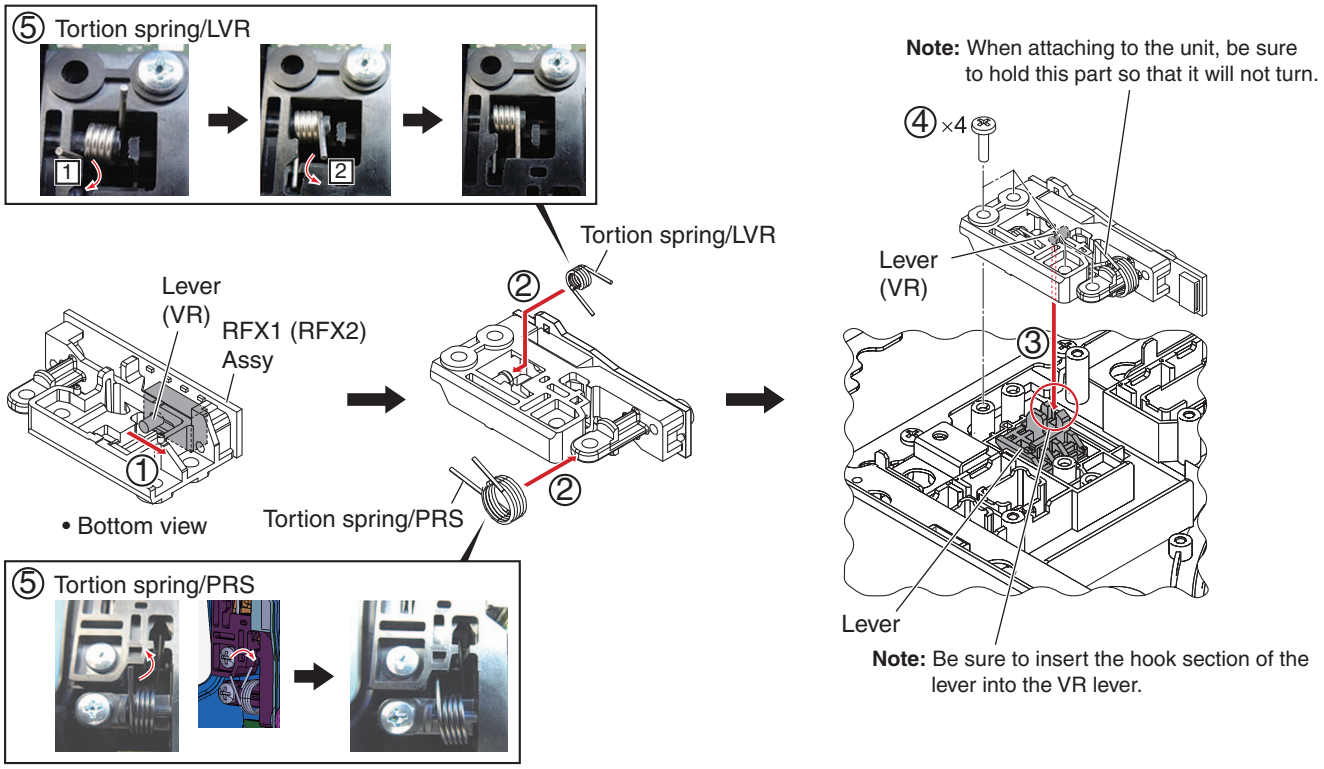
(2) Remove the Torsion Spring/PRS.
(3) Remove the Torsion Spring/LVR.
(4) Remove the RFX1 (RFX2) Assy, by removing the 2 screws. (BPZ30P080FNI)
(5) Remove the Lever.

Refer to "6.1 SERVICE MODE ①-8: RELEASE FX lever adjustment mode".



Reassembly of the RELASE FX lever Section

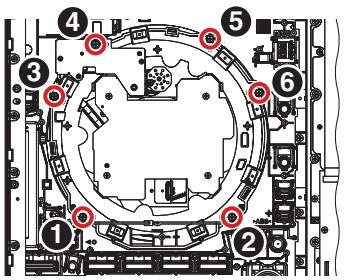
① Move the lever of the Slide VR on the RFX1 (RFX2) Assy to the center.
② Attach the Tortion spring/LVR and Tortion spring/PRS.
③ Attach the step ② parts to the Control panel.
④ Tighten 4 screws. (BPZ30P100FTC)
⑤ Styling the Tortion spring/LVR and Tortion spring/PRS.

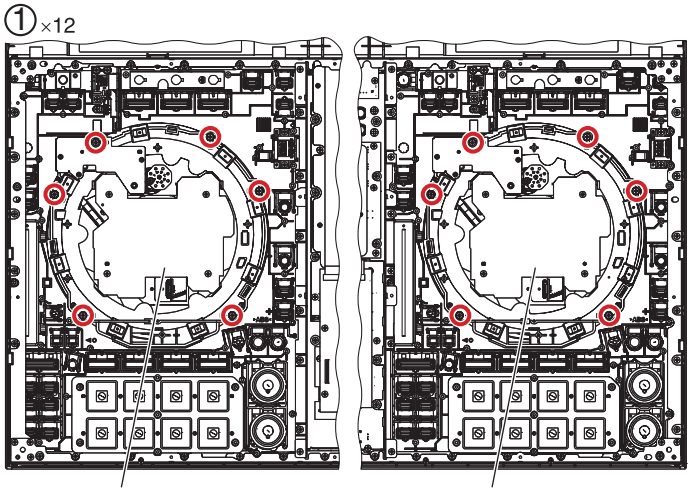


[4] Jog dial Section

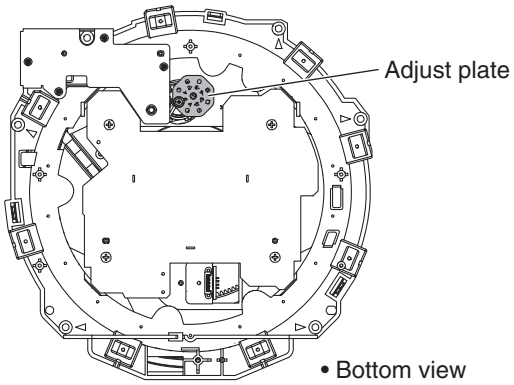
(1) Remove the Jog dial section, by removing the 12 screws.
(BPZ30P080FNI)

Screw tightening order

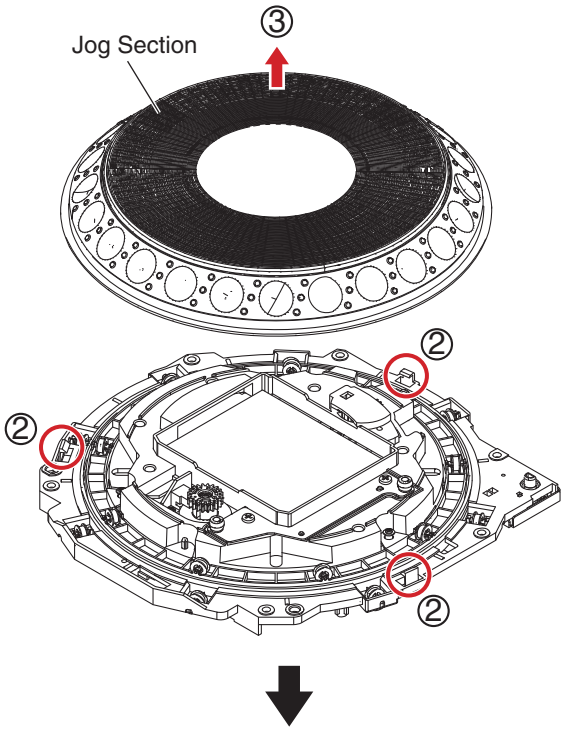




Position of the Adjust plate
About details of Adjustment etc., refer to the
“6.1 SERVICE MODE
①-7: Measurement mode of the load of JOG dial”.

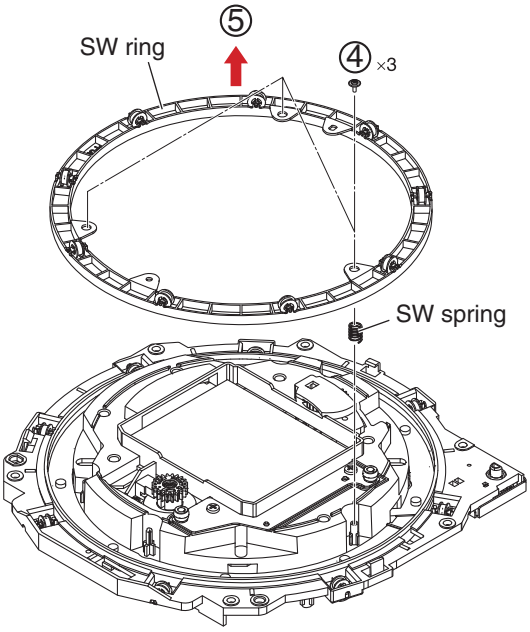


(2) Unhook the 3 hooks.
(3) Remove the Jog Section.



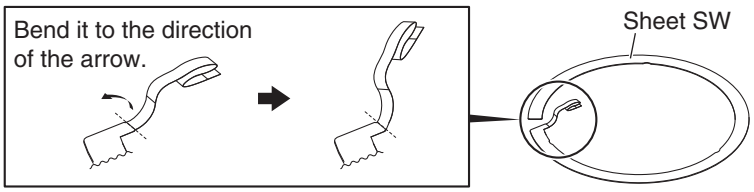
(4) Remove the 3 screws.
(DBA1265)
(5) Remove the SW ring.

Note:
Be careful not to lost SW spring.



Notes on replacing the Sheet SW

Styling of the Sheet SW

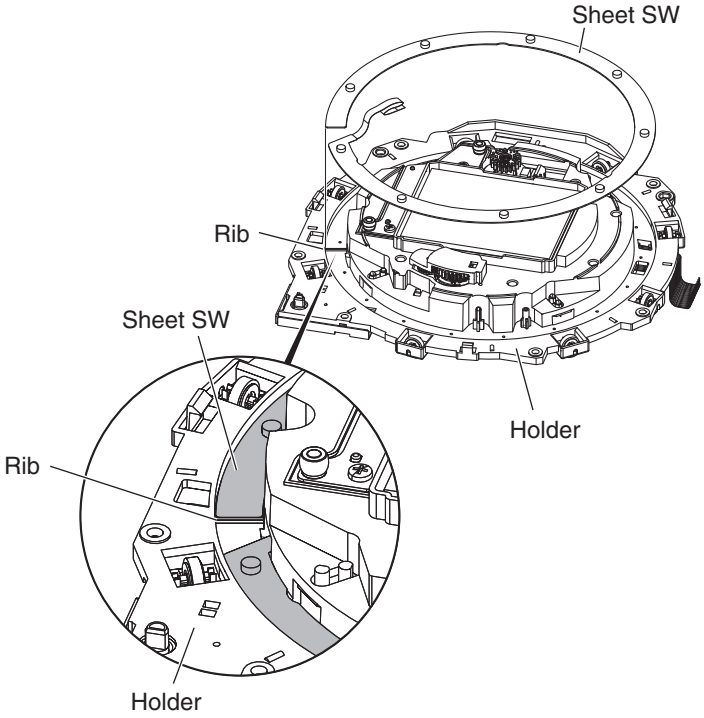


Notes on replacing the Sheet SW

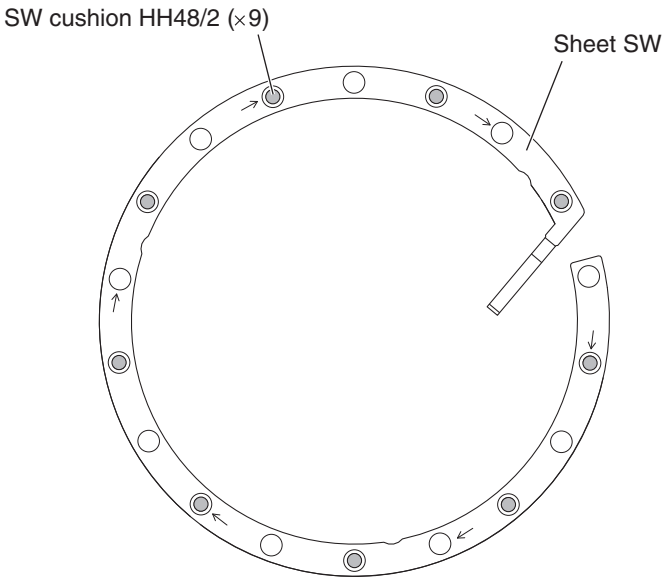
Pasting position of the Sheet SW

Notes:

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

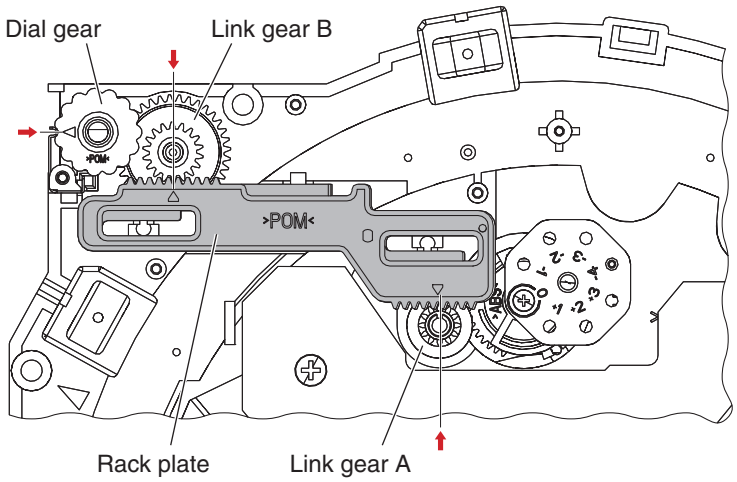


Pasting position of the SW cushion HH48/2



Alignment of the Rack Plate

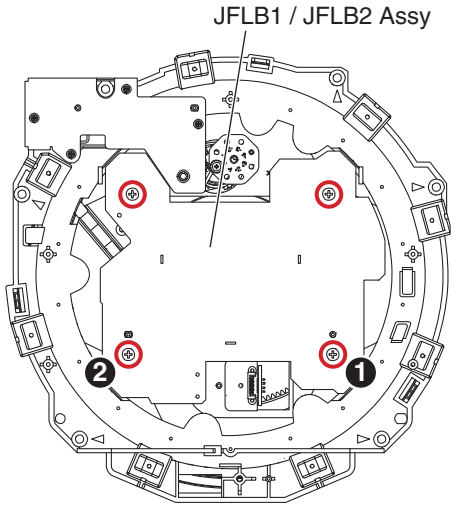
Place the rack plate so that its teeth are engaged with those of the gears and its triangular marks are positioned as shown in the figure.



Reference information

Screw tightening order (JFLB1 / JFLB2 Assy)

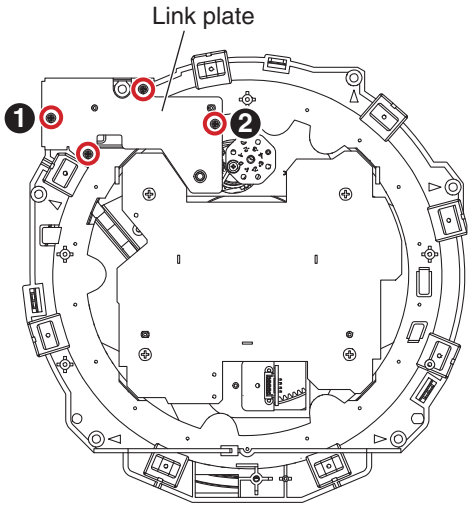
The other screws are random order.



• Bottom view

Screw tightening order (Link plate)

The other screws are random order.



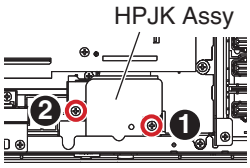
• Bottom view

[5] Mixer Section

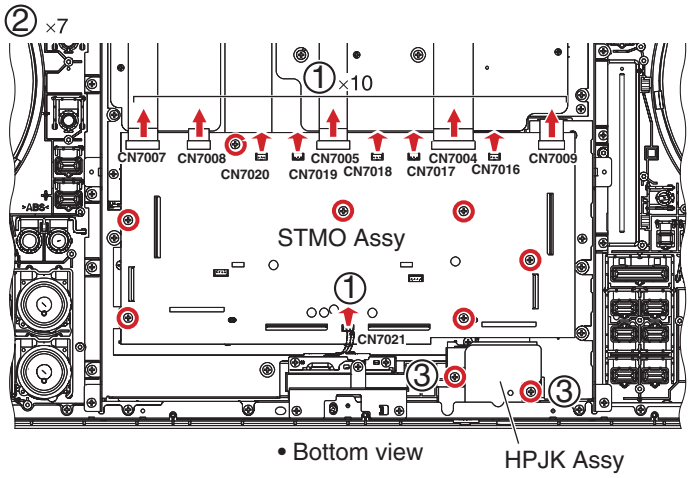
• STMO and HPJK Assemblies

(1) Disconnect the all flexible cables and connectors.
(CN7004, 7005, 7007-7009, 7016-7021)
(2) Remove the STMO Assy, by removing the 7 screws.
(BPZ30P100FTC)
(3) Remove the HPJK Assy with stay, by removing the 2 screws.
(BPZ30P100FTC)

Screw tightening order



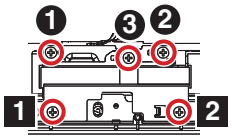
* When mounting, and then tighten the screws holding down the HPJK Assy to the front surface of the product.

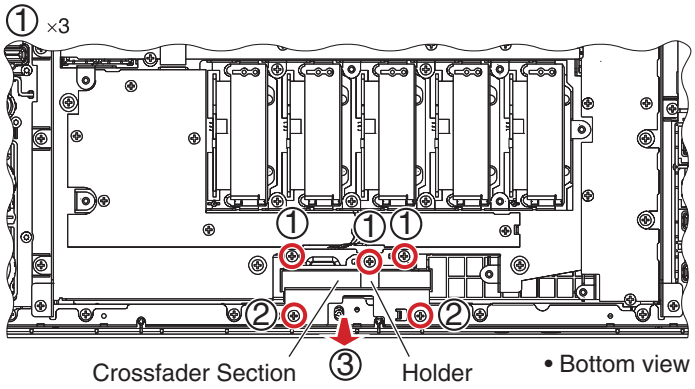


• Crossfader Section

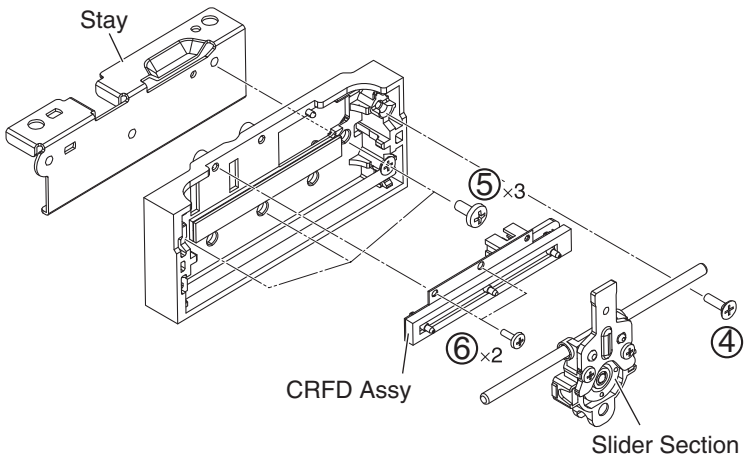
(1) Remove the 3 screws.
(BPZ30P080FNI)
(2) Remove the Holder, by removing the 2 screws.
(BBZ30P060FTC)
(3) Remove the Crossfader section.

Screw tightening order





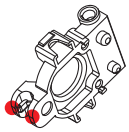
(4) Remove the Slider section, by removing the 1 screw.
(CPZ26P080FTC)
(5) Remove the Stay, by removing the 3 screws.
(BBZ30P060FTC)
(6) Remove the CRFD Assy, by removing the 2 screws.
(BPZ20P050FTC)



Locations of grease application

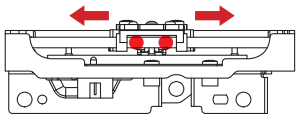
Lubricating oil (GEM1034)

- Slider



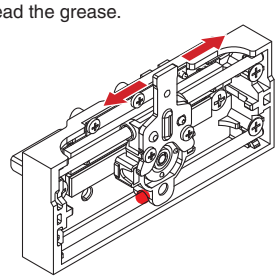
- Guide Bar (upper)

After grease application, move the slider in order to fully spread the grease.



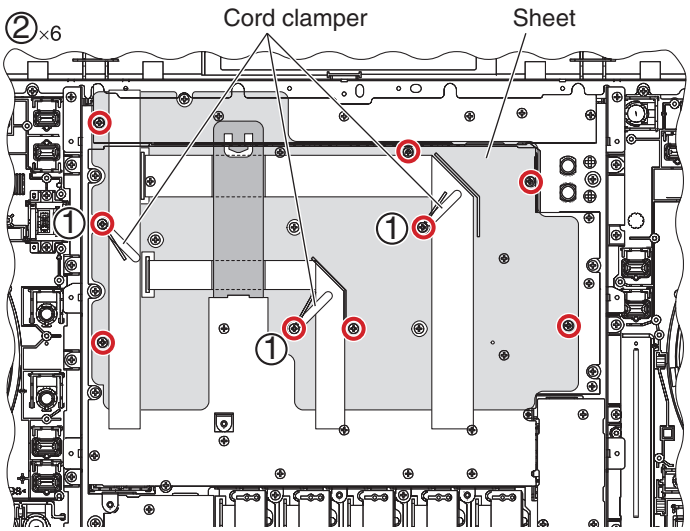
- Guide Bar (lower)

After grease application, move the slider in order to fully spread the grease.

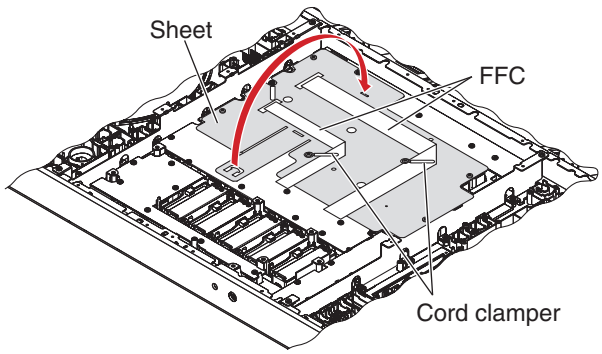


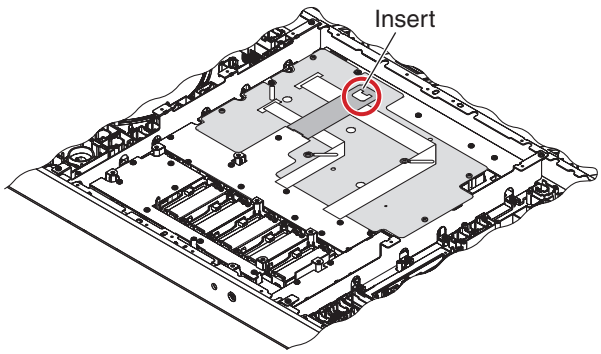
• Mixer Section

(1) Remove the 3 Cord clampers, by removing the 3 screws. (BPZ30P080FNI)
(2) Remove the Sheet, by removing the 6 screws. (BPZ30P080FNI)

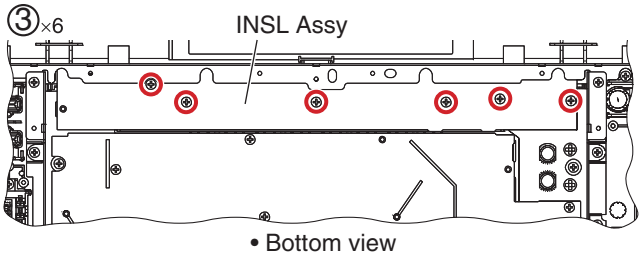


Jumper wires styling

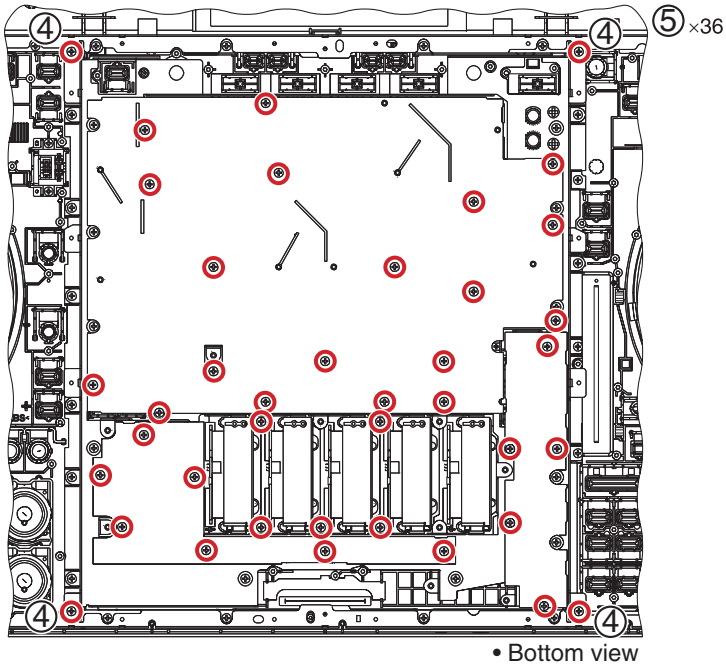




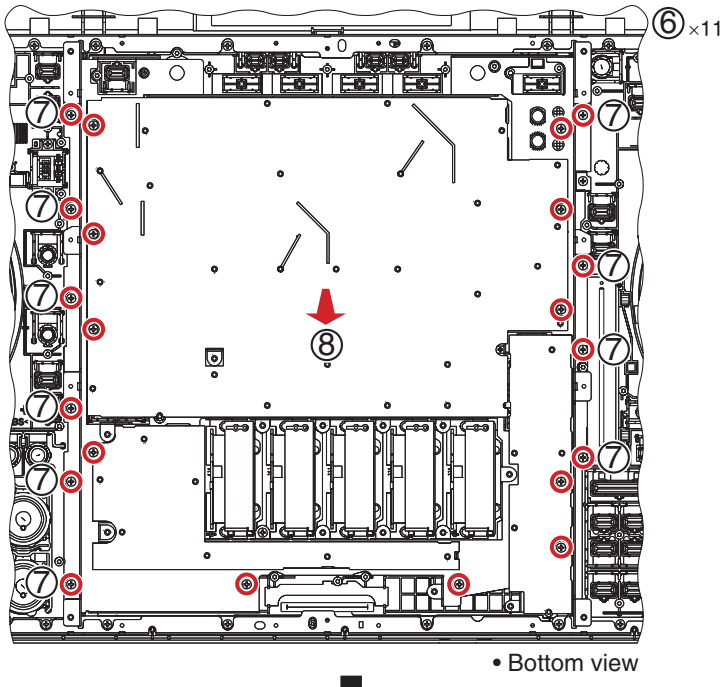
(3) Remove the INSEL Assy, by removing the 6 screws. (BPZ30P080FNI)



(4) Remove the 4 screws. (BBZ30P060FTC)
(5) Remove the 36 screws. (BPZ30P080FNI)

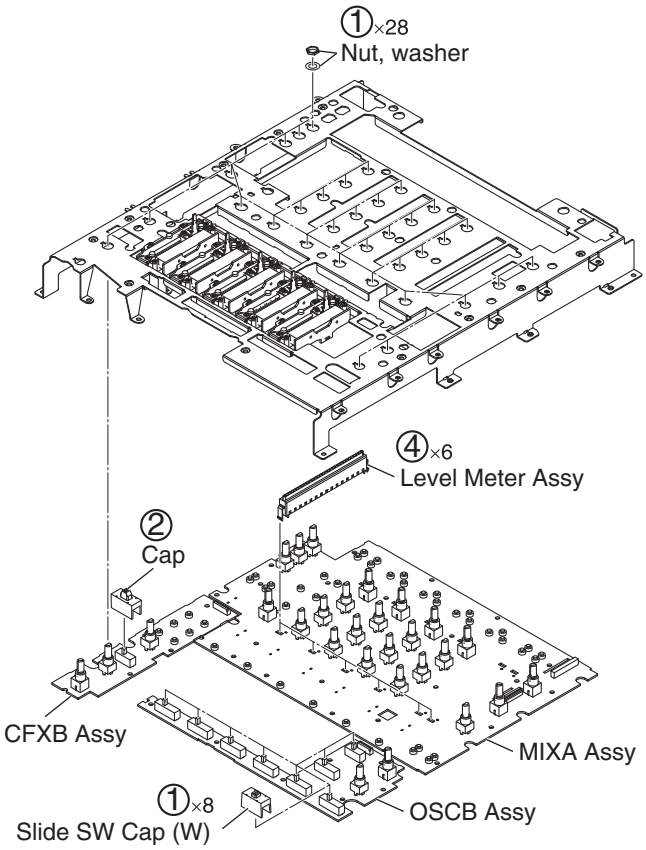


(6) Remove the 11 screws. (BPZ30P080FNI)
(7) Remove the 10 screws. (BPZ30P100FTC)
(8) Remove the Mixer section.



• MIXA, OSCB and CFXB Assemblies

(1) Remove the 8 Slide SW Caps (W).
(2) Remove the Cap.
(3) Remove the MIXA, OSCB and CFXB Assemblies, by removing the 28 nuts and 28 washers.
(4) Remove the 6 Level meter Assemblies.

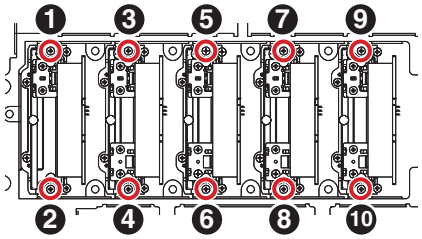


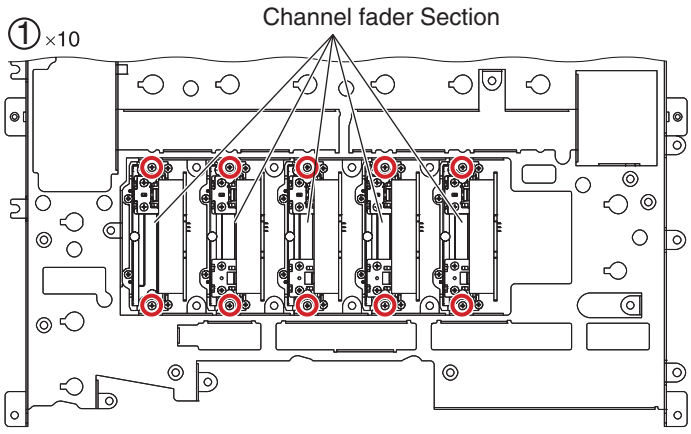
• Channel fader Section

(1) Remove the 5 Channel fader sections, by removing the 10 screws. (BSZ20P040FTB)

Screw tightening order

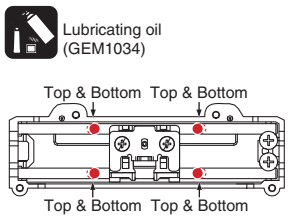
The other screws are random order.



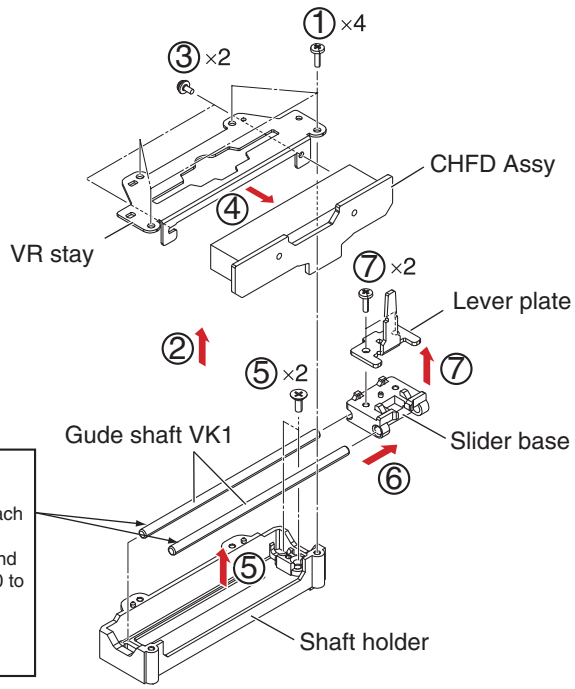


• CHFD1, 2, 3, 4 and SAFD Assemblies

(1) Remove the 4 screws.
(BPZ20P060FTC)
(2) Remove the CHFD (SAFD) Assy with VR stay.
(3) Remove the 2 screws.
(PMH20P040FTC)
(4) Remove the CHFD (SAFD) Assy.
(5) Remove the two screws and remove the Guide shaft VK1 and Slider base Section.
(CPZ26P080FTC)
(6) Remove the Slider Section from Guide shaft VK1.
(7) Remove the 2 screws and remove the Lever plate.
(BPZ20P060FTC)



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



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

After repairing, be sure to check the version of the firmware, and if it is not the latest one, update to the latest version.
When the following parts are replaced, confirmation of the version of the firmware, updating to the latest version of the firmware.

• IC storing firmware and calibration value: IC3001, MAIN Assy	⇨ • Confirmation of the version of the firmware • Updating to the latest version of the firmware • Crossfader, PAD calibration • RELEASE FX lever calibration
• CROSS FADER Assy	⇨ • Crossfader Calibration
• Performance pads section (PAD1 (PAD2) Assy*, Button/PAD, Sensor, Spacer) *It needs to be adjusted if removed without having to replace the PAD (PAD2) Assy.	⇨ • PAD calibration
• Touch panel	⇨ • Touch panel calibration
• RELEASE FX lever (RFX1 (RFX2) Assy, Lever, Torsion Spring/LVR, Torsion Spring/PRS, Holder)	⇨ • RELEASE FX lever adjustment (calibration)
• Jog dial section component part (See "9.7 JOG DIAL SECTION".)	⇨ • Confirmation of the specified value by Jog dial Rotation Time measurement mode

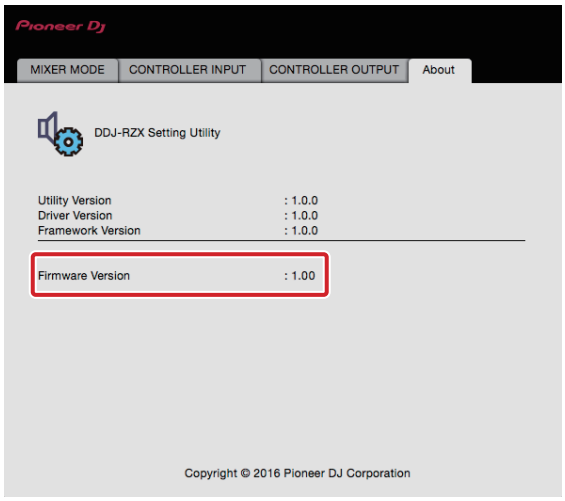
8.2 UPDATING OF THE FIRMWARE

A. Check the current DDJ-RZX version.

1. Connect your computer with DDJ-RZX.

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

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



B. Check the downloaded file.

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

   For MacOS:
   Save the downloaded file [ddj-rzx_vxxx_mac.zip] to an arbitrary directory such as desktop and unzip it.
   The [DDJ-RZX_vxxx_MAC.dmg] file is generated when the file unzipped and then double click to mount it.

2. Check the unzipped file.
   For Windows:
   The [DDJ-RZX_vxxx_WIN_E] folder is generated when the file is unzipped.
   Please ensure the following file is included in the folder.
   [DDJ-RZX_vxxx.exe]

   For MacOS:
   The [DDJ-RZX_vxxx_MAC_E] folder is generated when the file is extraced.
   Please ensure the following file is included in the folder.
   [DDJ-RZX_vxxx.app]

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

C. Set up DDJ-RZX for updating:

1. Connect your computer with DDJ-RZX.
   Connect your computer and the DDJ-RZX (connect USB-A) using a USB cable.
2. Go into update mode.
   While holding [Left DECK SYNC] and [Left DECK SHIFT] buttons, press the Power button to go into update mode.

[2-2] Press the Power button. [1] Connect a USB cable.

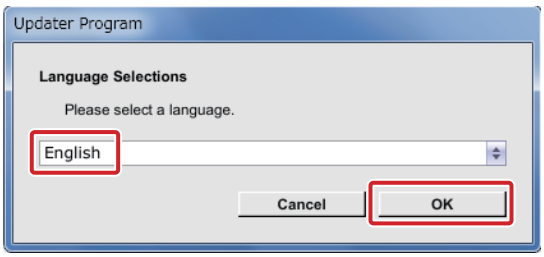
[2-1] Hold these two buttons.

D. Update the firmware from your computer:

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

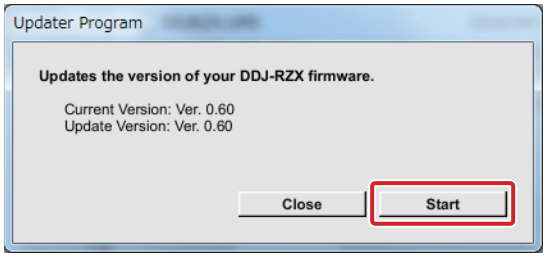
<STEP1> Start the updater program.
For Windows:
Double click [DDJ-RZX_vxxx.exe] to start the updater program.
For MacOS:
Double click [DDJ-RZX_vxxx.app] to start the updater program.

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

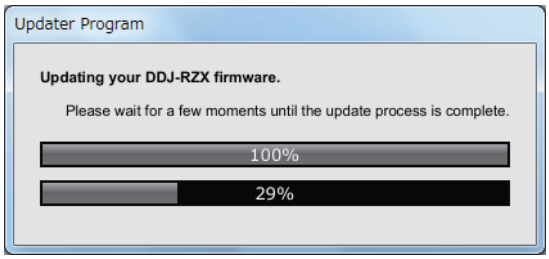


· If the message “Your DDJ-RZX is not connected” is displayed when you click on [OK], see “Corrective actions to be taken when ‘Your DDJ-RZX is not connected’ is displayed:” described later.

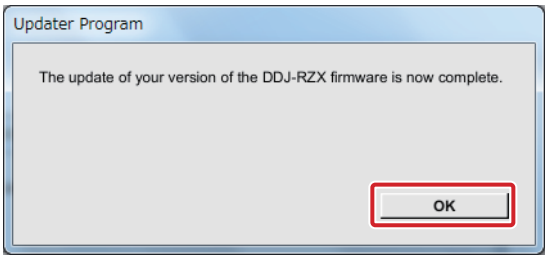
<STEP3> Check the version.
Ensure that the version for this update is x.xx and click [Start].
The figure below shows an example.
DO NOT remove Power and/or USB cables during updating.
Use the AC adapter when a notebook computer is used.



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



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

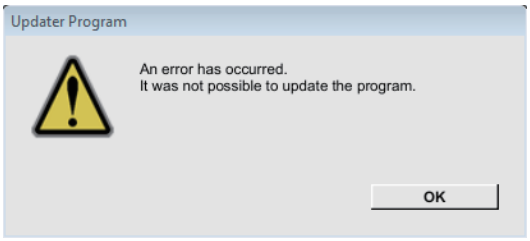


<STEP5> Restart DDJ-RZX.
Please turn off the power of DDJ-RZX and then turn it on again.

E. Check the current version.

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

If updating failed:
If the error message shown below is displayed during updating, turn off the DDJ-RZX then proceed with the steps from the beginning.



Corrective actions to be taken when “Your DDJ-RZX is not connected” is displayed:
If “Your DDJ-RZX is not connected” is displayed after selection of the language, check the following:

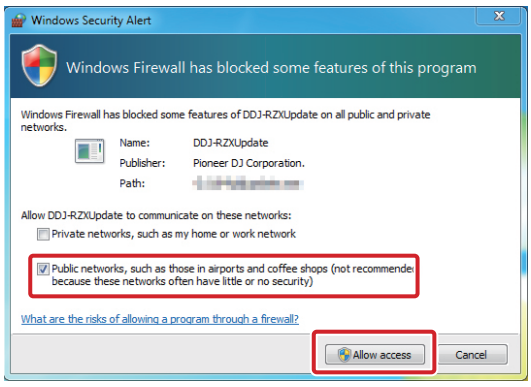
- Is the USB cable connected to the USB-A connector?
  If it is not, connect the cable to the USB-A connector then perform the updating procedure again.
- Is the driver software installed?
  (For Windows only)

  Visit the Website indicated below to download the latest version of the driver software:

  http://pioneerdj.com/support/index.php?lang=ja

  For details on how to install the driver software, refer to the operating instructions of the DDJ-RZX.

When following dialog is displayed while updating
Check “Public networks” and click “Allow access” .



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

It will take approximately 3 minutes to complete the update process.
The screen displays shown in this manual are under development and are subject to change.

8.3 ITEMS FOR WHICH USER SETTINGS ARE AVAILABLE

This unit is provided with user settable items, as shown below.
If the corresponding part or board Assy is replaced for repair, change the user resettable settings to those noted on the Check Sheet before starting repair. If resetting is not possible, when returning the repaired product, be sure to tell the customer that the Utility settings have been cleared and will have to be reset, as required.

Item for Which User's Setting is Available		Setting Value (The factory default settings are indicated in bold.)	Part Name	Content to be Stored
MIDI controller setting		**Operations to be switched in response to running /not running of rekordbox /** Forced operations to be generally expected from the MIDI controller	IC2006 (MAIN Assy)	Utility setting
Master output attenuator level setting		**0 dB** (no attenuation) / –3 dB / –6 dB / –9 dB / –12 dB		
Booth output attenuator level setting		**0 dB** (no attenuation) / –3 dB / –6 dB / –9 dB / –12 dB		
Setting of the auto standby function		**Auto standby function enabled** / Auto standby function disabled		
Setting of talk over function	Mode setting	**Advanced • Talk over mode** / Normal • Talk over mode		
	Level setting	–6 dB / –12 dB / –**18 dB** / –24 dB		
Cut lag setting of crossfader		0.5 mm / **1.0 mm** / 3.7 mm		
Output setting of microphone to booth monitor		OFF (Microphone audio NOT to be output from the BOOTH OUT connector) / **0 dB** / –3 dB / –6 dB / –9 dB / –12 dB / –15 dB / –18 dB		
Peak limiter setting		**Peak limiter enabled** / Peak limiter disabled		
Brightness setting of jog ring		**2 (Brightly lit)** / 1 (dimly lit) / unlit		
Unit display section brightness setting		**3** / 1 (Dark) to 5 (Bright)		
Demo mode and screen saver function setting		**Demo mode to be started after 10 minutes of nooperation** / to be started after 5 minutes of nooperation / to be started after 1 minute of nooperation / Screen saver function disabled Demo mode disabled		
Touch panel calibration setting		Left touch panel / **Center touch panel** / Right touch panel		
Monaural / stereo setting of master output		MONO / **STEREO**		
Monaural / stereo setting of booth output		MONO / **STEREO**		
Operation setting of microphone sound low cut filter		**Enables the low cut filter of microphone sound** / Disables the low cut filter of microphone sound		
Limiter setting of microphone audio added to master output		Limiter ON (enabled) / **Limiter OFF (Disabled)**		
Limiter setting of microphone audio added to booth output		Limiter ON (enabled) / **Limiter OFF (Disabled)**		

Each of the above items can be set in Utilities screen.
Press the [WAKE UP (UTILITY)] button for over 1 second. The utilities screen appears on a center display of this unit.

Sheet for confirmation of the user setting

MIDI controller setting	
Operations to be switched in response to running not running of Serato DJ	Forced operations to be generally expected from the MIDI controller

Master output attenuator level setting				
0 dB	–3 dB	–6 dB	–9 dB	–12 dB

Booth output attenuator level setting				
0 dB	–3 dB	–6 dB	–9 dB	–12 dB

Setting of the auto standby function	
enabled	disabled

Setting of talk over function					
Mode setting		Level setting			
Advanced	Normal	–6 dB	–12 dB	**–18 dB**	–24 dB

Cut lag setting of crossfader	Output setting of microphone to booth monitor							
	OFF	**0 dB**	–3 dB	–6 dB	–9 dB	–12 dB	–15 dB	–18 dB

Peak limiter setting		Brightness setting of jog ring			Unit display section brightness setting	
enabled	disabled	**Lit brightly**	Lit dark	Unlit	**Bright**	Dark

Demo mode and screen saver function setting				
Start after 10 min of nooperation	Start after 5 min of nooperation	Start after 1 min of nooperation	Screen saver function disabled	disabled

Touch panel calibration setting		
Left touch panel	**Center touch panel**	Right touch panel

Monaural/stereo setting of master output		Monaural/stereo setting of booth output	
MONO	**STEREO**	MONO	**STEREO**

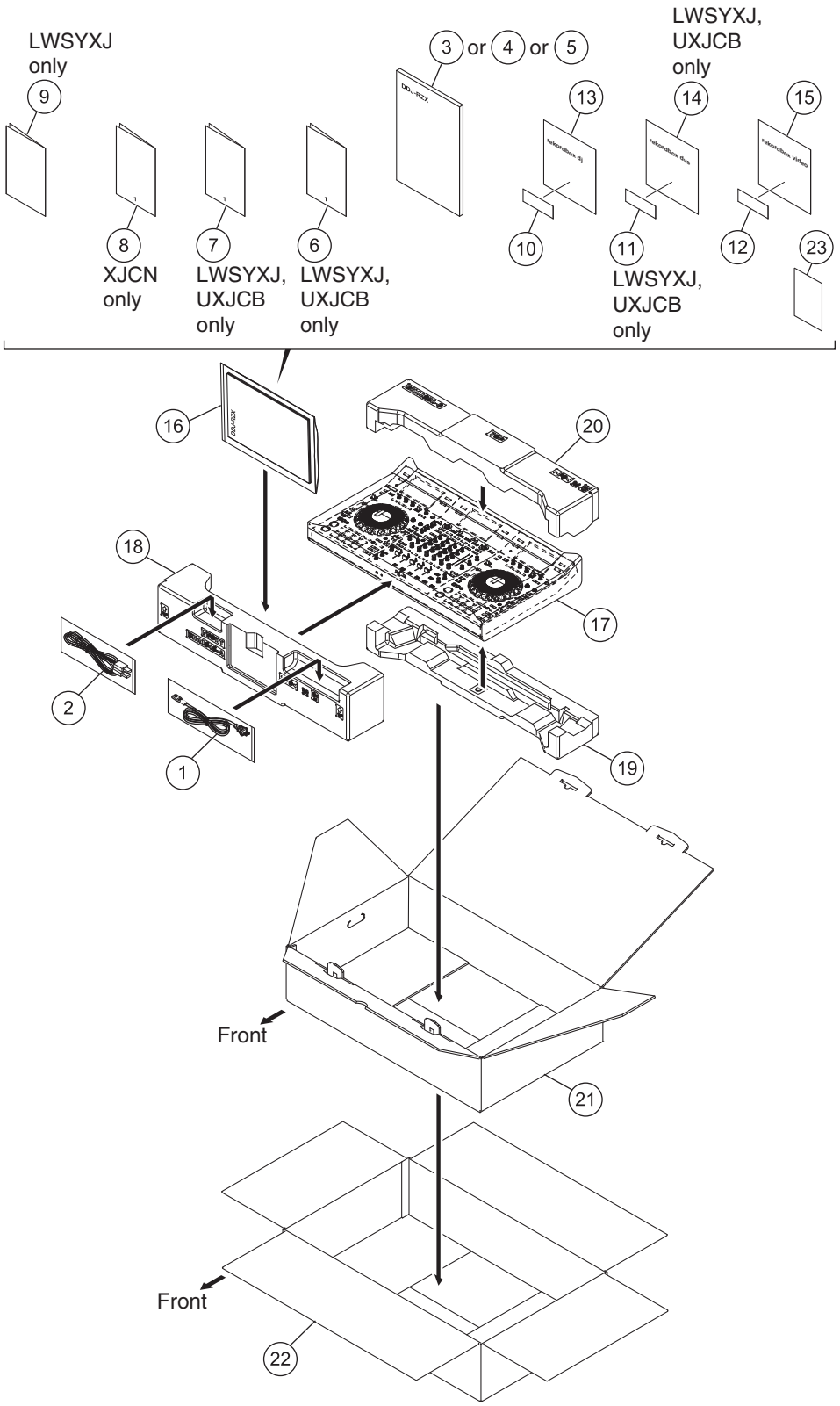
Operation setting of microphone sound low cut filter	
enabled	disabled

Limiter setting of microphone audio added to master output		Limiter setting of microphone audio added to booth output	
enabled	**disabled**	enabled	**disabled**

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

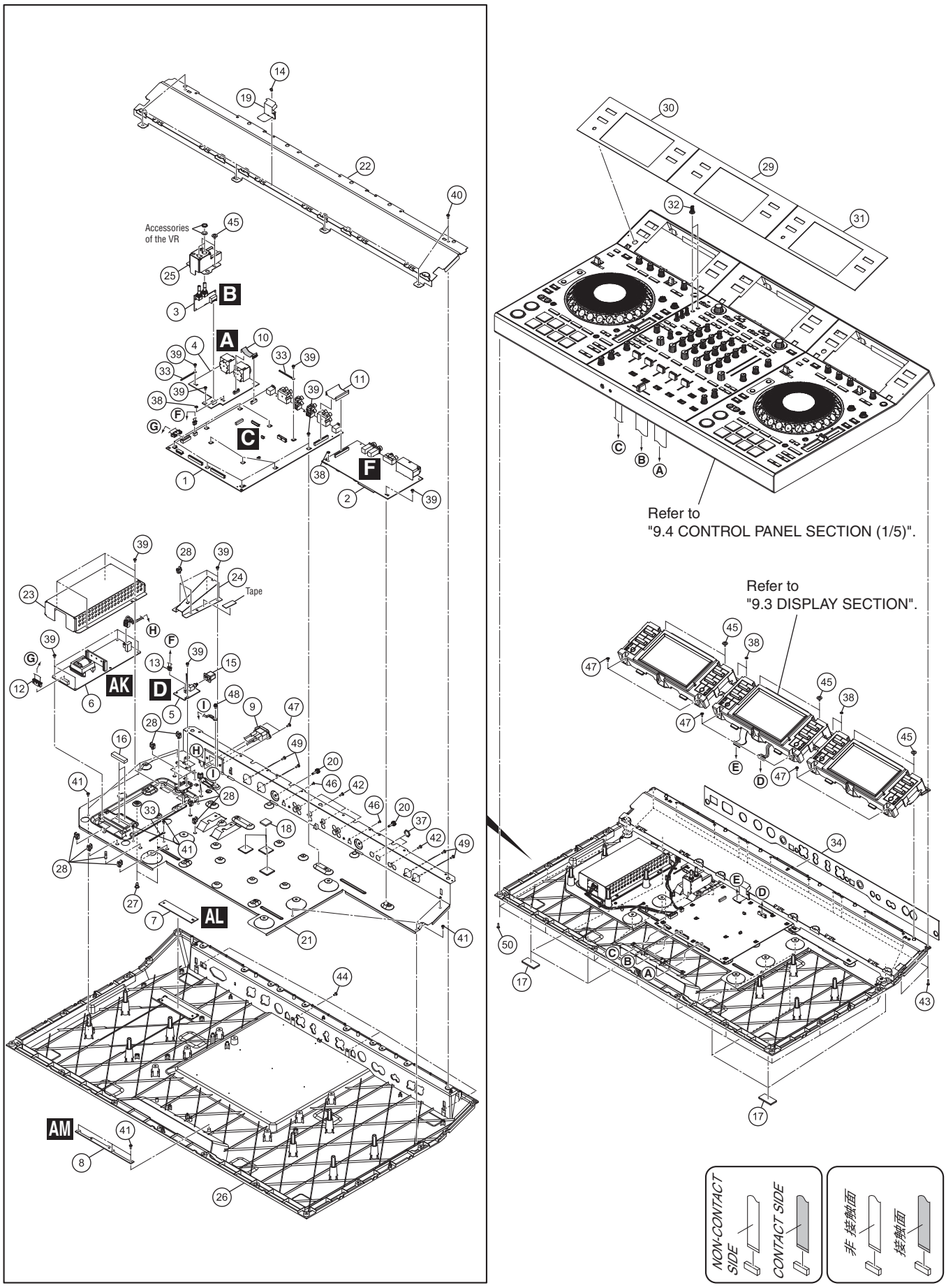
Mark	No.	Description	Part No.
⚠	1	Power Cord	See Contrast table (2)
	2	USB Cable	DDE1128
	3	Operating Instructions (Quick Start Guide)	See Contrast table (2)
	4	Operating Instructions (Quick Start Guide)	See Contrast table (2)
	5	Operating Instructions (Quick Start Guide)	See Contrast table (2)
	6	License Caution	See Contrast table (2)
	7	License Caution	See Contrast table (2)
	8	License Caution	See Contrast table (2)
NSP	9	Warranty	See Contrast table (2)
NSP	10	rekordbox dj license key card	DXA2304
NSP	11	rekordbox dvs license key card	See Contrast table (2)
NSP	12	rekordbox video license key card	DXA2323
NSP	13	Software license notice	DRM1410
NSP	14	Leaflet	See Contrast table (2)
NSP	15	Leaflet	DRM1415
NSP	16	Polyethylene Bag	AHG7117
	17	Mirror Mat	DHL1201
	18	Pad	DHA1949
	19	Pad	DHA1950
	20	Pad	DHA1951
	21	Packing Case	See Contrast table (2)
	22	Carton	See Contrast table (2)
NSP	23	Other Card	See Contrast table (2)

(2) CONTRAST TABLE

DDJ-RZX/LWSYXJ, UXJCB and XJCN are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-RZX /LWSYXJ	DDJ-RZX /UXJCB	DDJ-RZX /XJCN
⚠	1	Power Cord	ADG1244	DDG1108	DDG1114
	3	Operating Instructions (Quick Start Guide)(En, Fr)	Not used	DRH1344	Not used
	4	Operating Instructions (Quick Start Guide) (En, Fr, De, It, Nl, Es, Pt, Ru)	DRH1345	Not used	Not used
	5	Operating Instructions (Quick Start Guide)(Zhcn)	Not used	Not used	DRH1347
	6	License Caution (En, Fr, De, It, Nl, Es, Pt, Ru, Ja, Zhtw)	DRH1387	DRH1387	Not used
	7	License Caution (Fr)	DRH1388	DRH1388	Not used
	8	License Caution (Zhtw, Ko)	Not used	Not used	DRH1389
NSP	9	Warranty	DRY1270	Not used	Not used
NSP	11	rekordbox dvs license key card	DXA2322	DXA2322	Not used
NSP	14	Leaflet	DRM1414	DRM1414	Not used
	21	Packing Case	DHG3468	DHG3466	DHG3472
	22	Carton	DHG3469	DHG3467	DHG3473
NSP	23	Other Card	Not used	DRM1413	Not used

9.2 CHASSIS SECTION



(1) CHASSIS SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	MAIN Assy	DWX3822
	2	JACB Assy	DWX3797
	3	MTRM Assy	DWX3799
	4	MCJK Assy	DWX3809
	5	PSWB Assy	DWX3808
⚠	6	SW POWER SUPPLY Assy	DWR1548
	7	HOLD1 Assy	DWX3889
	8	HOLD2 Assy	DWX3890
⚠	9	AC Inlet	DKP3980
	10	FFC	DDD1788
	11	FFC	DDD1741
	12	Crimp Connector	DKP3981
	13	Connector Assy	PF03PP-C40
	14	Nylon Rivet	AEC1671
	15	Power Knob	DAC2306
	16	Heat Cond Sheet	DEB2020
	17	Sheet/LEG	DEC3534
	18	Sheet	DEC3618
	19	Sheet	DEC3677
	20	Earth Terminal	DKE1015
	21	Chassis	DNA1460
	22	Rest	DNF1983
	23	Shield Case	DNF1984
	24	Cover	DNH3254
	25	Bracket	DNH3255
	26	Chassis	DNK6535
NSP	27	PCB Holder	PNW1706
	28	Holder	VEC1355
	29	Bezel	DAH3098
	30	Bezel	DAH3099
	31	Bezel	DAH3100
	32	Knob/RSW	DAA1308
	33	Cord Clamper (Steel)	RNH-184
	34	Plate	See Contrast table (2)
	35	•••••	
	36	•••••	
	37	Nut (M12)	NKX2FNI
	38	Washer	DBF1005
	39	Screw	BBZ30P060FTC
	40	Screw	BBZ30P080FTB
	41	Screw	BPZ30P080FNI
	42	Screw	BPZ30P080FTB
	43	Screw	BPZ30P140FTB
	44	Screw	BSZ30P060FTB
	45	DM Screw (FTC)	DBA1260
	46	Screw (M3*5)	DBA1340
	47	Screw	IBZ30P080FTB
	48	Screw	PMH40P080FTC
	49	Screw	PPZ30P080FTB
	50	Screw	BBZ30P100FTB

(2) CONTRAST TABLE

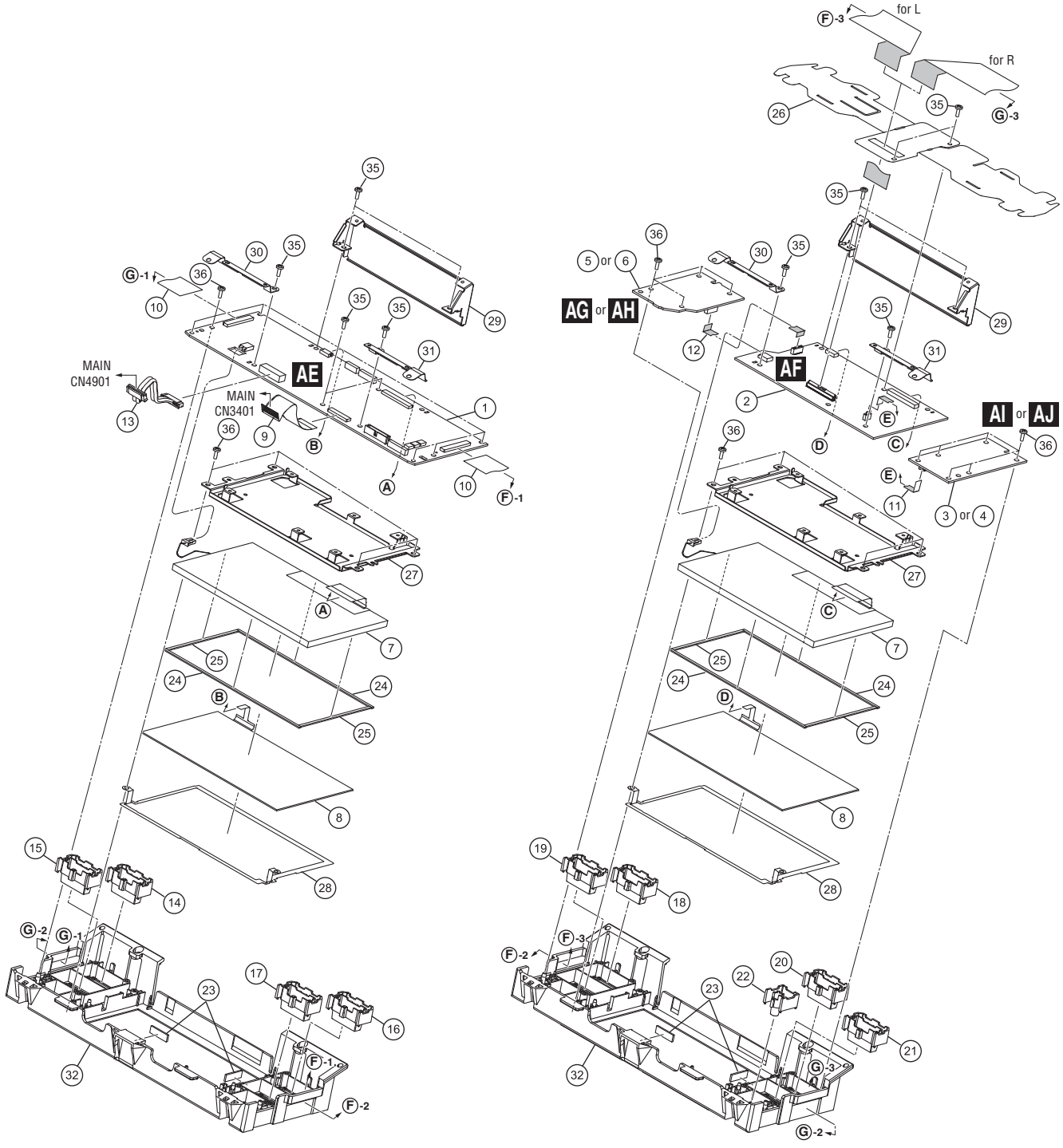
DDJ-RZX/LWSYXJ, UXJCB and XJCN are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-RZX /LWSYXJ	DDJ-RZX /UXJCB	DDJ-RZX /XJCN
	34	Plate	DAK1006	DAK1006	DAK1008

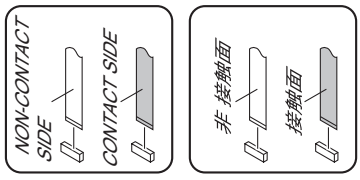
9.3 DISPLAY SECTION

■ Center

■ Left and Right



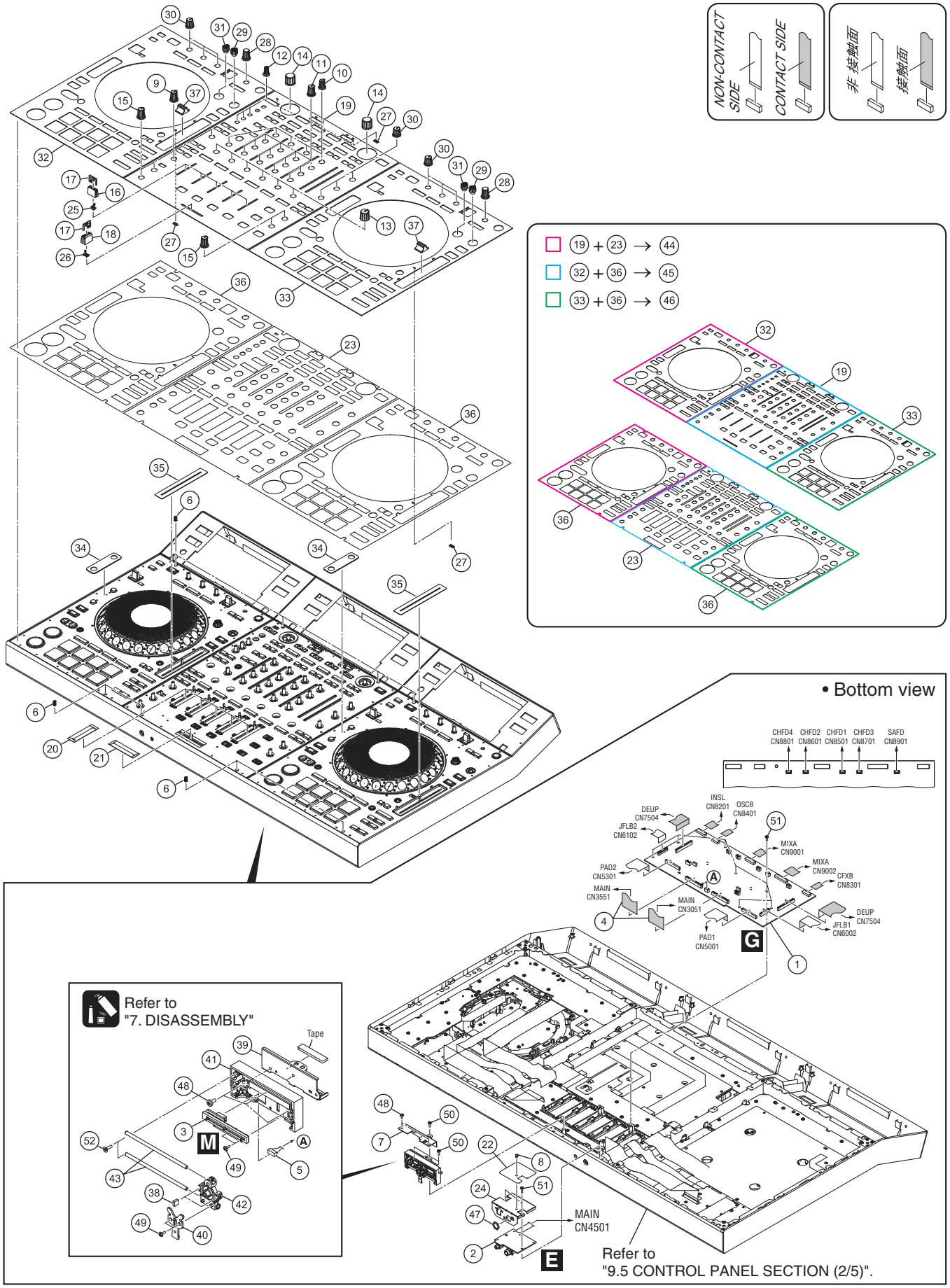
• Bottom view



DISPLAY SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	LCDM Assy	DWX3828
	2	LCDP Assy	DWX3791
	3	MSL1 Assy	DWX3884
	4	MSL2 Assy	DWX3885
	5	XYM1 Assy	DWX3886
	6	XYM2 Assy	DWX3887
	7	TFT LCD	CWX4352
	8	Touch Panel	DSX1128
	9	FFC	DDD1703
	10	FFC	DDD1740
	11	FFC	ADD7783
	12	10P FFC	DDD1533
	13	Shielded Conn-Cable	DDA1075
	14	Button	DAC3170
	15	Button	DAC3172
	16	Button	DAC3175
	17	Button	DAC3176
	18	Button	DAC3173
	19	Button	DAC3174
	20	Button	DAC3177
	21	Button	DAC3178
	22	Button	DAC3171
	23	Packing/LCD	DEC3565
	24	Packing/L	DEC3568
	25	Packing/S	DEC3569
	26	Sheet	DEC3678
	27	Bracket	DNF1991
	28	Plate/GND	DNH3173
	29	Angle	DNH3256
	30	Angle	DNH3277
	31	Angle	DNH3278
	32	Holder	DNK6612
	33	•••••	
	34	•••••	
	35	Screw	BBZ30P080FTB
	36	Screw	BPZ30P080FNI

9.4 CONTROL PANEL SECTION (1/5)

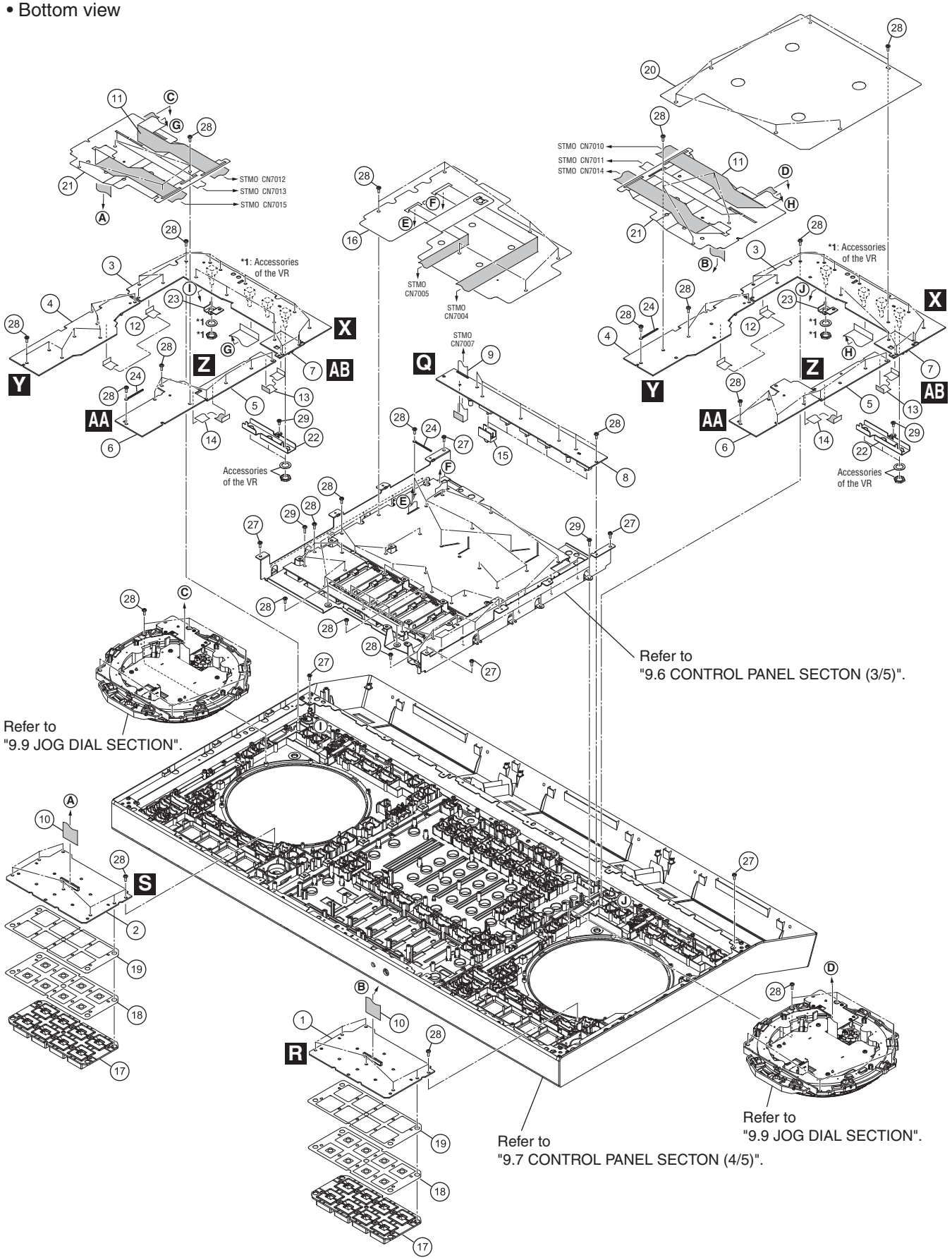


CONTROL PANEL SECTION (1/5) PARTS LIST

Mark	No.	Description	Part No.
	1	STMO Assy	DWX3824
	2	HPJK Assy	DWX3810
	3	CRFD Assy	DWX3817
	4	FFC	DDD1751
	5	Connector Assy	PF03PP-B05
	6	Coil Spring	DBH1813
	7	Holder	DNF2005
	8	Nylon Rivet	AEC1671
	9	Knob (RES)	DAA1250
	10	Knob/CH	DAA1300
	11	Knob/RSW	DAA1305
	12	Knob/RSW	DAA1307
	13	Knob/FRE	DAA1309
	14	Knob/BRS	DAA1342
	15	Knob	DAA1368
	16	Slider Knob 1	DAC2684
	17	Slider Knob 2	DAC2685
	18	Knob	DAC3238
	19	Plate	DAH3101
	20	Fader Packing	DEC3355
	21	Packing	DEC3642
	22	Sheet	DEC3705
	23	DS Tape	DEH1087
	24	Stay	DNF1992
	25	Slider Knob Stopper	DNK5888
	26	Stopper	DNK6440
	27	Lens	DNK6621
	28	Rotary SW Knob (C)	DAA1180
	29	Knob/CFC	DAA1326
	30	Knob	DAA1370
	31	Adjust Knob Black	DAC2528
	32	Plate	DAH3102
	33	Plate	DAH3116
	34	Plate	DAH3106
	35	Sheet	DAH3112
	36	DS Tape	DEH1086
	37	Knob/SLD	DNK5981
NSP	38	Cushion	DEC3356
	39	Stay	DNF1942
	40	Lever	DNH3211
	41	Holder	DNK6425
	42	Slider	DNK6426
	43	Guide Bar	VLL1514
	44	•••••	DEA1056
	45	•••••	DEA1057
	46	•••••	DEA1058
	47	Nut (M12)	NKX2FNI
	48	Screw	BBZ30P060FTC
	49	Screw	BPZ20P050FTC
	50	Screw	BPZ30P080FNI
	51	Screw	BPZ30P100FTC
	52	Screw	CPZ26P080FTC

9.5 CONTROL PANEL SECTION (2/5)

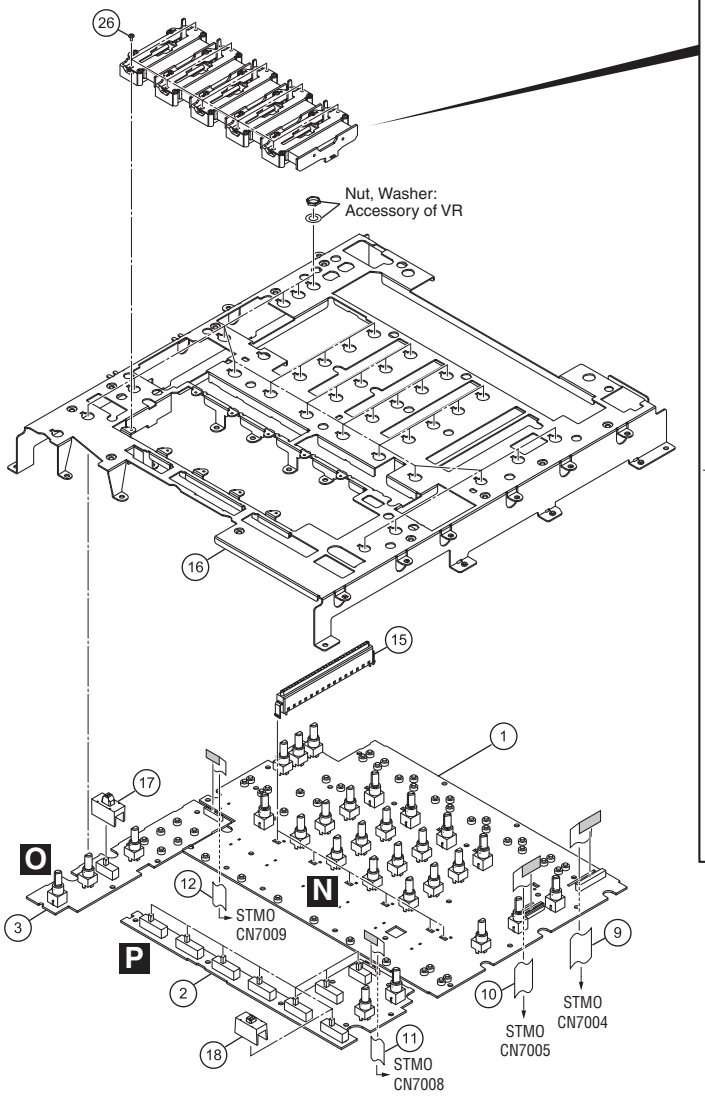
• Bottom view

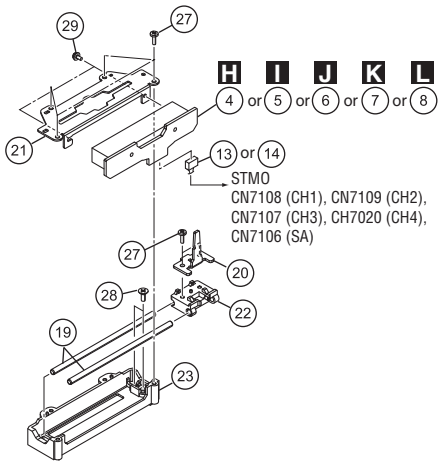


CONTROL PANEL SECTION (2/5) PARTS LIST

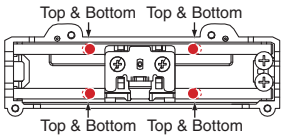
Mark	No.	Description	Part No.
	1	PAD1 Assy	DWX3818
	2	PAD2 Assy	DWX3819
	3	DEUP Assy	DWX3811
	4	SLDB Assy	DWX3812
	5	DUAL Assy	DWX3813
	6	PLAY Assy	DWX3814
	7	REVB Assy	DWX3826
	8	INSL Assy	DWX3800
	9	FFC	DDD1742
	10	FFC	DDD1745
	11	FFC	DDD1747
	12	FFC	DDD1748
	13	FFC	DDD1749
	14	12P FFC	DDD1507
	15	Cap	DAC3136
	16	Sheet	DEC3682
	17	Button/PAD	DEB2005
	18	Sensor	DEC3656
	19	Spacer	DEC3667
	20	Sheet	DEC3683
	21	Sheet	DEC3684
	22	Stay	DND1306
	23	Stay	DNF2004
	24	Cord Clamper (Steel)	RNH-184
	25	•••••	
	26	•••••	
	27	Screw	BBZ30P060FTC
	28	Screw	BPZ30P080FNI
	29	Screw	BPZ30P100FTC

9.6 CONTROL PANEL SECTION (3/5)



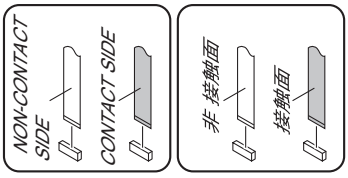


Lubricating oil
(GYA1001)



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

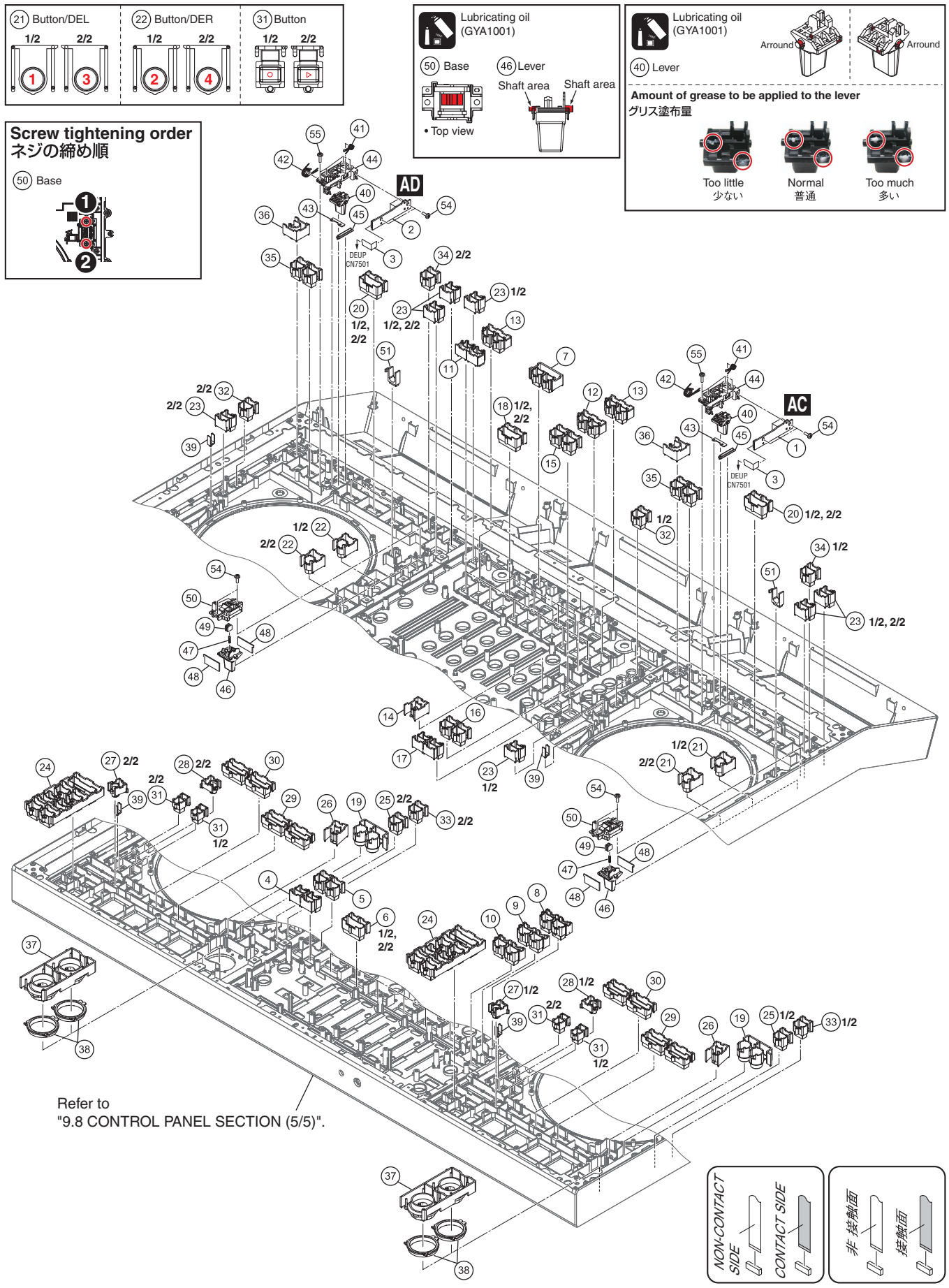
注意:
グリス塗布位置は各シャフト上下2箇所ずつ計8箇所です。
(1ポイント当たり 0.4～1 mg ×8ポイント)
グリス塗布後はスライダーベースを動かして (フルストローク)
摺動部にグリスを十分なじませてください。
(動かす回数の目安は10～20往復)



CONTROL PANEL SECTION (3/5) PARTS LIST

Mark	No.	Description	Part No.
	1	MIXA Assy	DWX3794
	2	OSCB Assy	DWX3802
	3	CFXB Assy	DWX3801
	4	CHFD1 Assy	DWX3803
	5	CHFD2 Assy	DWX3804
	6	CHFD3 Assy	DWX3805
	7	CHFD4 Assy	DWX3806
	8	SAFD Assy	DWX3807
	9	FFC	DDD1742
	10	FFC	DDD1743
	11	FFC	DDD1744
	12	FFC	DDD1789
	13	Connector Assy	PF03PP-C12
	14	Connector Assy	PF03PP4B12
	15	Level Meter Assy	DXB1882
	16	Stay	DND1305
	17	Cap	DAC3136
	18	Slide SW Cap (W)	DAC2401
NSP	19	Guide Shaft VK1	DLA1978
	20	Lever Plate	DNH2954
	21	VR Stay	DNH2955
	22	Slider Base	DNK5851
	23	Shaft Holder	DNK5852
	24	•••••	
	25	•••••	
	26	Screw	BSZ20P040FTB
	27	Screw	BPZ20P060FTC
	28	Screw	CPZ26P080FTC
	29	Screw	PMH20P040FTC

9.7 CONTROL PANEL SECTION (4/5)

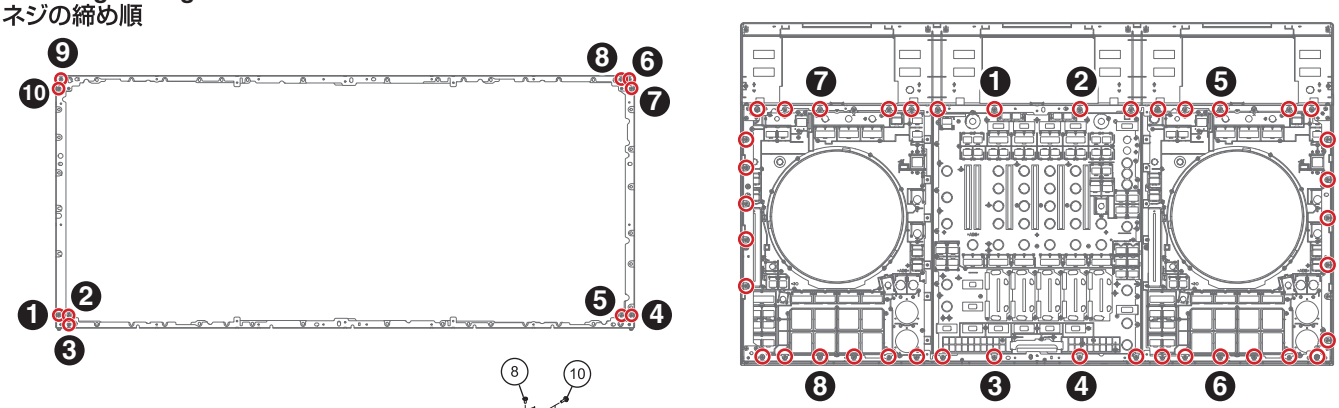


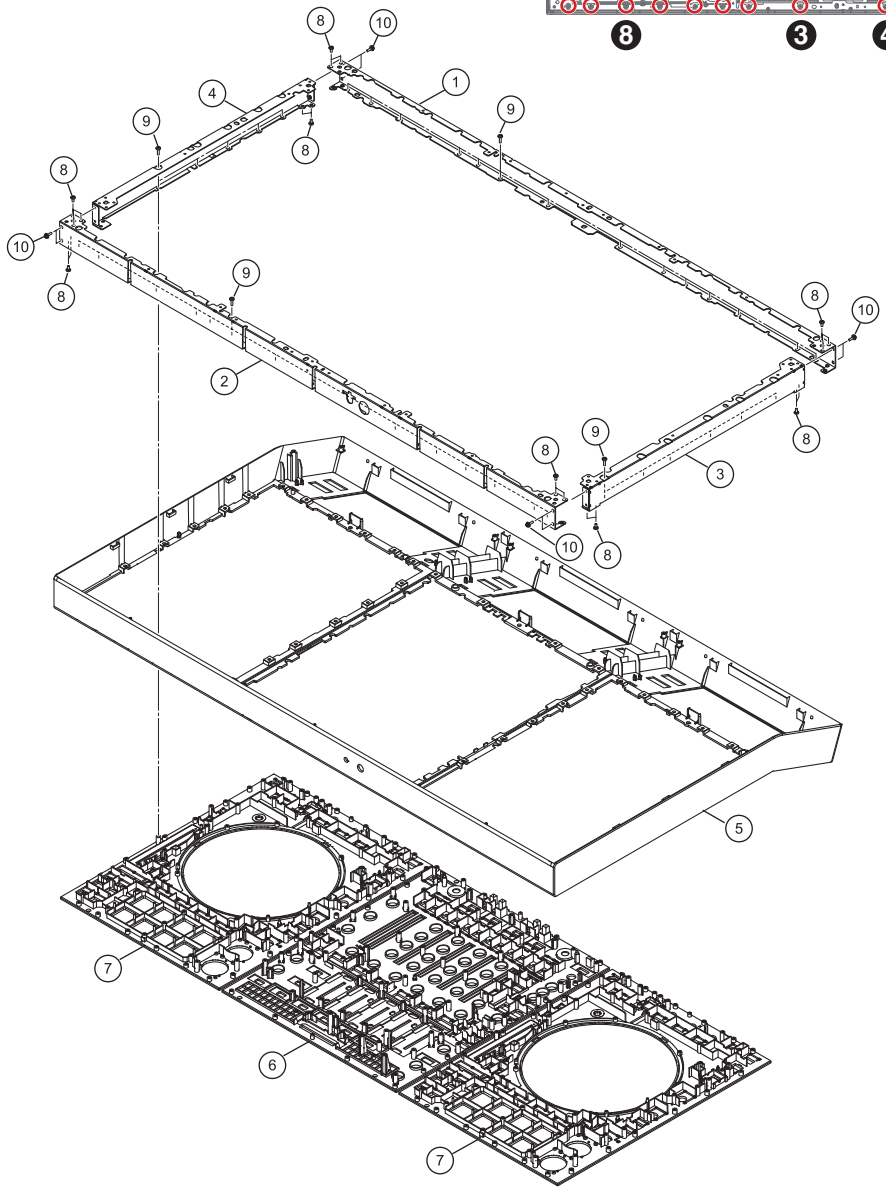
CONTROL PANEL SECTION (4/5) PARTS LIST

Mark	No.	Description	Part No.
	1	RFX1 Assy	DWX3820
	2	RFX2 Assy	DWX3821
	3	FFC	DDD1752
	4	Button/FX2	DAC2986
	5	Button	DAC3154
	6	Button	DAC3155
	7	Button	DAC3156
	8	Button	DAC3166
	9	Button	DAC3179
	10	Button	DAC3180
	11	Button	DAC3167
	12	Button	DAC3186
	13	Button	DAC3187
	14	Button	DAC3193
	15	Button	DAC3223
	16	Button	DAC3181
	17	Button	DAC3182
	18	Button	DAC3224
	19	Button/BSY	DAC2810
	20	Button/ON	DAC2991
	21	Button/DEL	DAC3000
	22	Button/DER	DAC3001
	23	Button	DAC3125
	24	Button	DAC3128
	25	Button	DAC3239
	26	Button	DAC3194
	27	Button	DAC3185
	28	Button	DAC3184
	29	Button	DAC3196
	30	Button	DAC3204
	31	Button	DAC3168
	32	Button	DAC3225
	33	Button	DAC3240
	34	Button	DAC3228
	35	Button	DAC3226
	36	Button	DAC3227
	37	Button	DXB2174
	38	Ring Rens (PLAY)	DNK5315
	39	Lens/TMP	DNK6307
	40	Lever	DAC2804
	41	Torsion Spring/LVR	DBH1790
	42	Torsion Spring/PRS	DBH1791
	43	Cushion	DEB1999
	44	Holder/LVR	DNK6025
	45	Lens	DNK6620
	46	Lever	DAC3097
	47	Lever Spring	DBH1702
	48	Brake	DEC3634
	49	Lever CAP	DNK5344
	50	Base	DNK6470
	51	Lens	DNK6622
	52	•••••	
	53	•••••	
	54	Screw	BPZ30P080FNI
	55	Screw	BPZ30P100FTC

9.8 CONTROL PANEL SECTION (5/5)

Screw tightening order
ネジの締め順

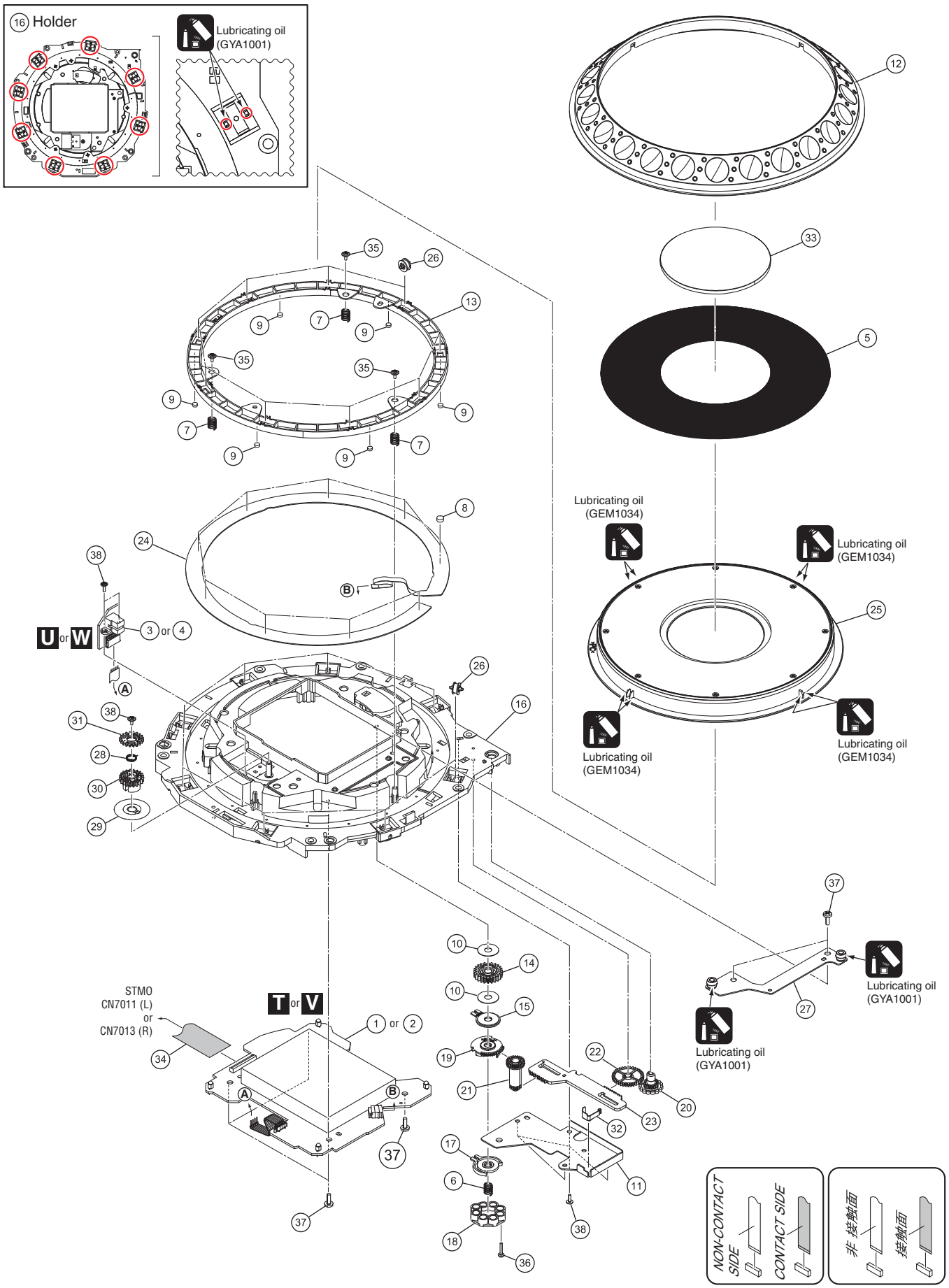




CONTROL PANEL SECTION (5/5) PARTS LIST

Mark	No.	Description	Part No.
	1	Frame	DNH3260
	2	Frame	DNH3261
	3	Frame	DNH3262
	4	Frame	DNH3263
	5	Frame	DNK6613
	6	Panel	DNK6614
	7	Panel	DNK6615
	8	Screw	BBZ30P060FTC
	9	Screw	BPZ30P100FTC
	10	Screw	PMB30P060FTC

9.9 JOG DIAL SECTION



JOG DIAL SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	JFLB1 Assy (for Left deck)	DWX3795
	2	JFLB2 Assy (for right deck)	DWX3796
	3	JOGR1 Assy (for Left deck)	DWX3815
	4	JOGR2 Assy (for right deck)	DWX3827
	5	Jog Plate	DAH2679
	6	Coil Spring/LD	DBH1798
	7	SW Spring	DBH1681
	8	SW Cushion Hh48/2	DEC2538
	9	Cushion/RNG	DEC3466
	10	Washer	DEC3137
	11	Link Plate	DNH2848
	12	Jog B	DNK4068
	13	SW Ring	DNK5233
	14	Gear/LD	DNK6145
	15	Smoother	DNK5237
	16	Holder	DNK6556
	17	Comp Plate	DNK5243
	18	Adjust Plate	DNK5300
	19	Cam Plate	DNK5301
	20	Dial Gear	DNK5302
	21	Link Gear A	DNK5303
	22	Link Gear B	DNK5304
	23	Rack Plate	DNK5305
	24	Sheet SW	DSX1078
	25	Jog Dial A Assy	DXA2159
	26	Roller	DXB2178
	27	Stay Assy/Jog	DXB2133
	28	Encoder Spring	DBH1710
	29	Plate	DEC3700
	30	Gear/A	DNK6143
	31	Gear/B	DNK6144
	32	Leaf Spring/ADJ	DBK1376
	33	Jog Panel	DAH2609
	34	FFC	DDD1746
	35	Screw (FE)	DBA1265
	36	Screw	BPZ20P100FTC
	37	Screw	BPZ30P080FNI
	38	Screw	IPZ20P060FTC