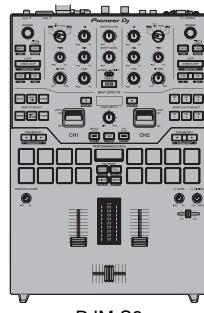


Pioneer DJ

Service Manual



DJM-S9

ORDER NO.
RRV4627

DJ MIXER

DJM-S9

DJM-S9-N

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

Model	Type	Power Requirement	Remarks
DJM-S9	LSYXJ	AC 110 V to 240 V	
DJM-S9	UXJCB	AC 110 V to 240 V	
DJM-S9-N	LSYXJ	AC 110 V to 240 V	
DJM-S9-N	UXJCB	AC 110 V to 240 V	

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

Model	Order No.	Remarks
DJM-S9, DJM-S9-N	RRV4628	SCHEMATIC DIAGRAM, PCB CONNECTION DIAGRAM, PCB PARTS LIST



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SAFETY INFORMATION



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

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

WARNING

B 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

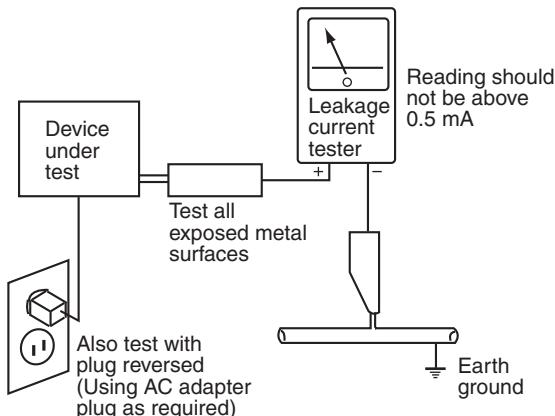
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120 V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

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

1.2 NOTES ON REPLACING

The part listed below is difficult to replace as a discrete component part.

When the part listed in the table is defective, replace whole Assy.

B	Assy Name	Parts that is Difficult to Replace			
		Ref No.	Part No.	Function	Remarks
C	MAIN Assy	IC204	BD9328EFJ	1.25V DCDC converter for microcomputer	IC with heat-pad
		IC205	BD9328EFJ	5 V DCDC converter for internal power gen.	IC with heat-pad
		IC206	BD9328EFJ	8 V DCDC converter for internal power gen.	IC with heat-pad
		IC207	NJM2886DL3-33	3.3 V regulator for microcomputer	IC with heat-pad
		IC401	NJM78M15DL1A	+15 V regulator for OP amp.	IC with heat-pad
		IC407	NJM78M15DL1A	+15 V regulator for OEL	IC with heat-pad
		IC402	NJM79M15DL1A	-15 V regulator for OP amp.	IC with heat-pad
		IC404	NJM7805DL1A	5 V regulator for internal power gen.	IC with heat-pad
		IC403	BD9851EFV	±18 V DCDC converter for internal power gen.	IC with heat-pad
		IC405	BD9851EFV	±7.5 V DCDC converter for OP amp.	IC with heat-pad
		IC1001	D810K013DZKB400	Audio DSP	BGA

1.3 SERVICE NOTICE

■ Detection of abnormal power-supply voltages

The microcomputer of this unit always monitors various power voltages and will shut the unit off immediately after an error is detected. In such a case, the PANEL/UTILITY button LED flashes and all other LEDs are unlit.

D If the unit shuts itself off because of error detection, the circuitry may be heated because of power failure. Therefore, after completing diagnosis, unplug the AC power cord then turn the unit back on after giving it time to cool.

Repair the unit, following the descriptions shown in "5.3 DETECTION OF ABNORMAL POWER-SUPPLY VOLTAGES."

■ Confirmation of User Setting Data

This product has user-settable items, which are set in UTILITY mode.

E Be sure to confirm those data before starting repair, although changing them may not have a large effect.

Use the Check Sheet in "8.3 USER SETTABLE ITEMS," to which you can transcribe the settings, as required.

The settings are stored in SPI Flash memory (IC602) on the Main Assy.

To enter UTILITY mode, hold the PANEL/UTILITY button pressed for at least 1 sec.

■ Calibration of the crossfader

E The crossfader of this unit is calibrated on the production line.

After you replace the corresponding part(s), be sure to perform calibration of the part(s) in question.

For details on the specific parts for which recalibration is required, see "8.1 NECESSARY ITEMS TO BE NOTED."

See "Crossfader Calibration Mode" in "6.1 TEST MODE" for details on how to calibrate.

Without calibration, sound of a channel may leak, even when the crossfader is moved to its end position, where sound of that channel should be muted.

■ About the PANEL UCOM

F For production reasons the PANEL UCOM (IC5101) cannot be supplied with the program (firmware) installed.

If the PANEL UCOM (IC5101) is in failure, replace the entire PNL1B Assy.

■ Printing of the serial number on the control panel of the DJM-S9-N

Production of the DJM-S9-N is limited to 500 units. The serial number is printed at the lower left of the control panel. Note that the serial number is not printed on the control panel for service.

2. SPECIFICATIONS

General – Main Unit

Power requirements.....	AC 110 V to 240 V, 50 Hz/60 Hz
Power consumption	24 W
Power consumption (standby)	0.4 W
Main unit weight.....	4.6 kg
Max. external dimensions	267 mm (width) x 107.9 mm (height) x 407.3 mm (depth)
Tolerable operating temperature.....	+5 °C to +35 °C
Tolerable operating humidity.....	5 % to 85 % (no condensation)

Audio Section

Sampling rate	48 kHz
A/D, D/A converter.....	24 bits
Frequency characteristic	
USB, CD/LINE, MIC, AUX	20 Hz to 20 kHz
S/N ratio (rated output, A-WEIGHTED)	
USB	107 dB
CD/LINE	103 dB
PHONO	90 dB
MIC	80 dB
AUX	96 dB
Total harmonic distortion (20 Hz to 20 kHzBW)	
USB	0.003 %
CD/LINE	0.005 %
Standard input level / Input impedance	
CD/LINE	-12 dBu/47 kΩ
PHONO	-52 dBu/47 kΩ
MIC	-57 dBu/3 kΩ
AUX	-12 dBu/47 kΩ
Standard output level / Load impedance / Output impedance	
MASTER 1.....	+6 dBu/10 kΩ/390 Ω or less
MASTER 2.....	+2 dBu/10 kΩ/390 Ω or less
BOOTH.....	+6 dBu/10 kΩ/390 Ω or less
PHONES	+8 dBu/32 Ω/10 Ω or less
Rated output level / Load impedance	
MASTER 1.....	+25 dBu/10 kΩ
MASTER 2.....	+21 dBu/10 kΩ
BOOTH.....	+25 dBu/10 kΩ
Crosstalk	
CD/LINE	82 dB
Channel equalizer characteristic	
HI	-∞ dB to +6 dB (13 kHz)
MID	-∞ dB to +6 dB (1 kHz)
LOW	-∞ dB to +6 dB (70 Hz)
Microphone equalizer characteristic	
HI	-12 dB to +12 dB (10 kHz)
LOW	-12 dB to +12 dB (100 Hz)

Input / Output terminals

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

- For improvement purposes, specifications and design of this unit and the included software are subject to change without notice.

Accessories

- Power cord
(LSYXJ: ADG1244)
(UXJCB: DDG1108)
- 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.
- Fader bumper A x 4*1
(GNK1010)
- Fader bumper B x 2*1
(DEC3596)
- Warranty card
- Operating Instructions (Quick Start Guide)
(LSYXJ: DRH1334, DRH1335)
(UXJCB: DRH1336)
- Serato DJ CONTROL CD x 2

*1: Fader cushion A and Fader cushion B are included inside of the panel of this product.
For instructions on removing the panel, see this product's operating instructions.

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3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

A Items to be checked after servicing

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

No.	Procedure	Check points
1	Check the firmware version in Test mode.	The version of the firmware must be latest. Update firmware to the latest one, if it is not the latest.
2	Confirm whether the customer complain has been solved. If the problem pointed out by the customer occurs with a specific source or operation, input that specific source then perform that specific operation for checking.	The customer complain must not be reappeared. Audio and operations must be normal.
3	Check the analog audio input (Check the each channel, MIC and AUX.) (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.) (Make the analog connection with CDJ player.)	Audio and operations must be normal.
5	Check the headphones output (1/4" jack, mini jack).	There must be no errors, such as noise, in the audio output.
6	Check the operating elements (buttons, switches, VRs, faders, pads, etc.) and the indicators.	They must operate properly during checking in Test mode.
7	Check the connection of each interface. USB B terminal ("A" / "B")	The device must be properly recognized by the PC.
8	Check the DVS.	Make sure that PC applications function properly and that the audio signals and operations of each channel are normal.
9	Check the user settings.	They must be returned to those set before repair.
10	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

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

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

3.2 JIGS LIST

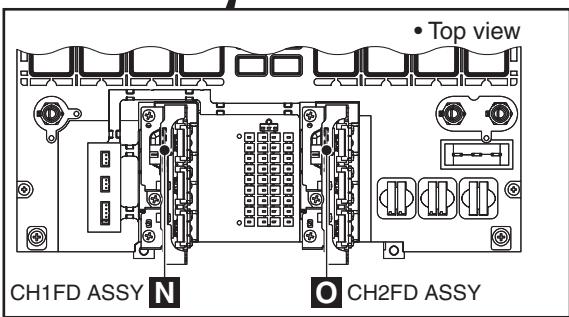
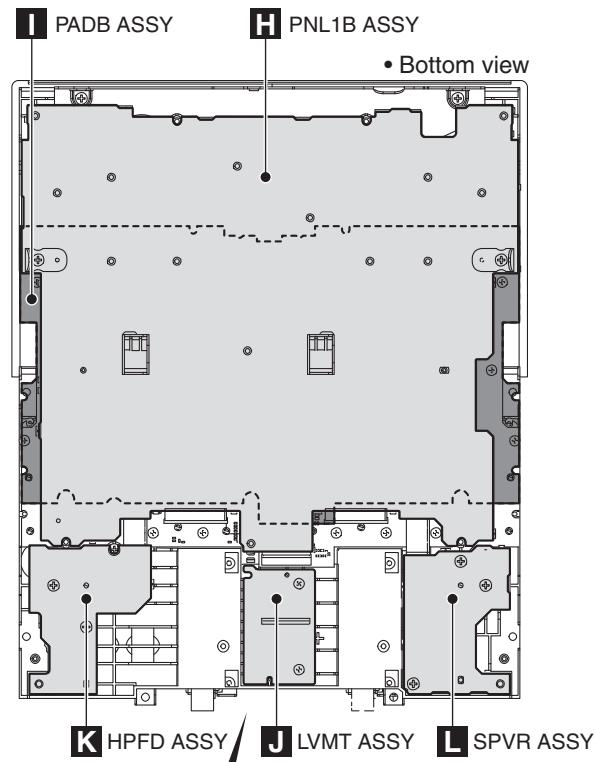
■ Jigs List

Jig Name		Part No.	Purpose of use / Remarks
Jig for positioning of the five points for calibration of the noncontact faders	GGF1717		For calibration of the noncontact faders
Fader bumper A (resin cushion)	GNK1010		For calibration of the noncontact faders
USB cable	GGP1193		For PC connection

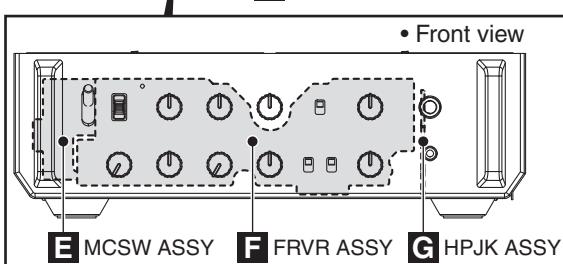
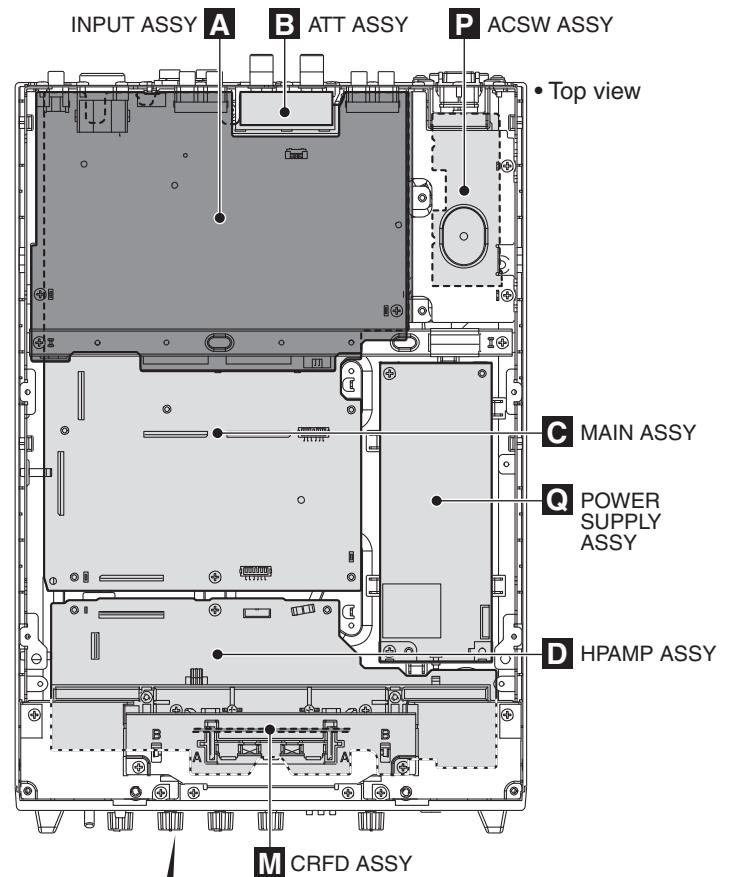
■ Lubricants and Glues List

Name	Part No.	Remarks
Grease (Floil)	GYA1001	To be used for the CH faders, crossfader, and levers with their own LEDs
Acetate tape	GYH1035	To be used for wrapping around the center stay
Double-back tape	GYH1038	To be used for OLED attached (NITTO No. 500)

3.3 PCB LOCATIONS



Note:
The 1 and 2 Assys of CH*FD Assys have the same circuitry, parts, and board shapes. Only printed information is different, because their part numbers and wiring numbers are different.
They are handled similarly in their production management.
Therefore, either 1 or 2 Assy of the respective Assys is assembled in the respective place.



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

Mark No. Description

LIST OF ASSEMBLIES

	1..MAIN ASSY	DWX3673
NSP	1..PAD ASSY	DWM2565
	2..PADB ASSY	DWX3675
	2..CH1FD ASSY	DWX3689
	2..CH2FD ASSY	DWX3690
	2..CRFD ASSY	DWX3678
	2..LVMT ASSY	DWX3679

Mark	No.	Description	Part No.
NSP	1..PNL ASSY	1..PNL ASSY	DWM2566
	2..PNL1B ASSY	2..PNL1B ASSY	DWX3685
	2..SPVR ASSY	2..SPVR ASSY	DWX3681
	2..HPJK ASSY	2..HPJK ASSY	DWX3686
	2..ACSW ASSY	2..ACSW ASSY	DWR1547
NSP	1..JACK ASSY	1..JACK ASSY	DWM2567
	2..INPUT ASSY	2..INPUT ASSY	DWX3683
	2..HPAMP ASSY	2..HPAMP ASSY	DWX3684
	2..FRVR ASSY	2..FRVR ASSY	DWX3687
	2..HPFD ASSY	2..HPFD ASSY	DWX3680
	2..ATT ASSY	2..ATT ASSY	DWX3682
	2..MCSW ASSY	2..MCSW ASSY	DWX3688
	1..POWER SUPPLY ASSY	1..POWER SUPPLY ASSY	DWR1463

4. BLOCK DIAGRAM

4.1 OVERALL WIRING DIAGRAM

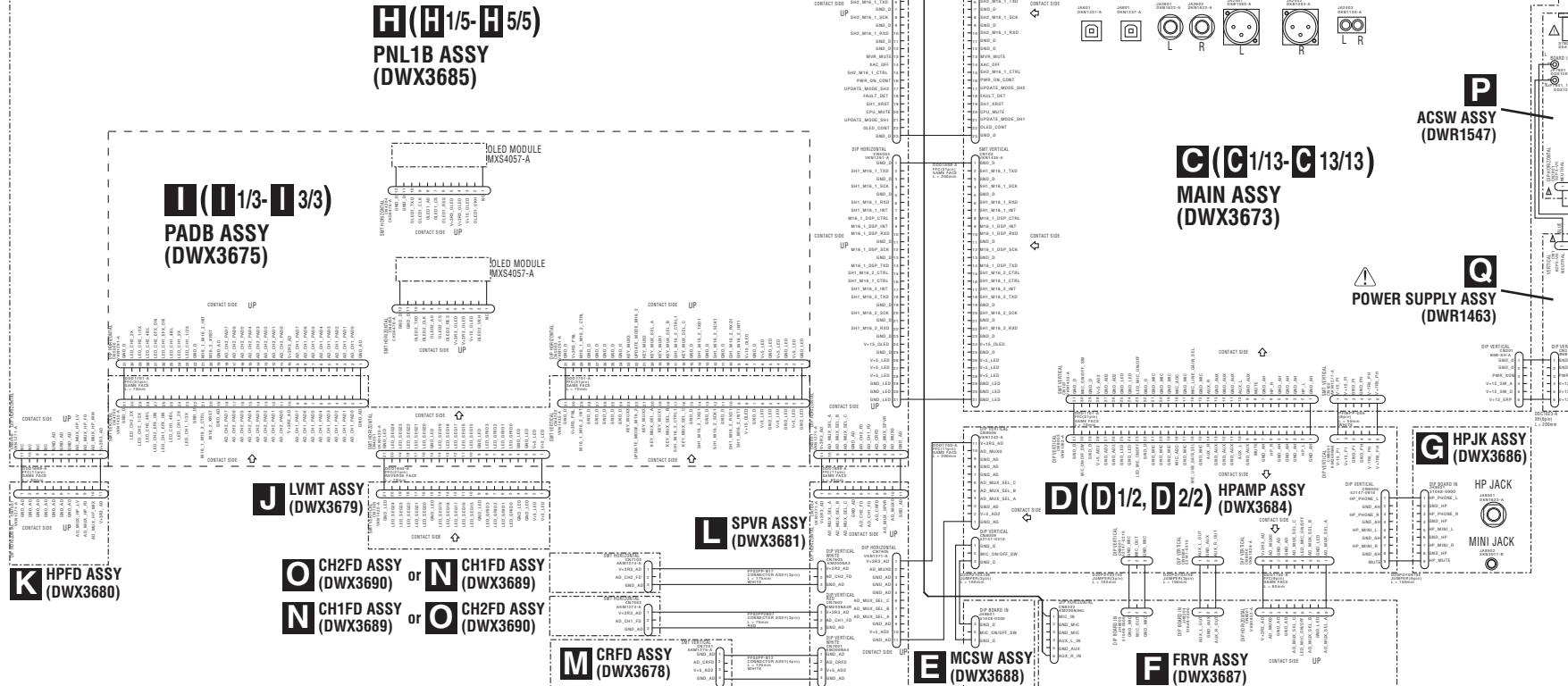
4. BLOCK DIAGRAM

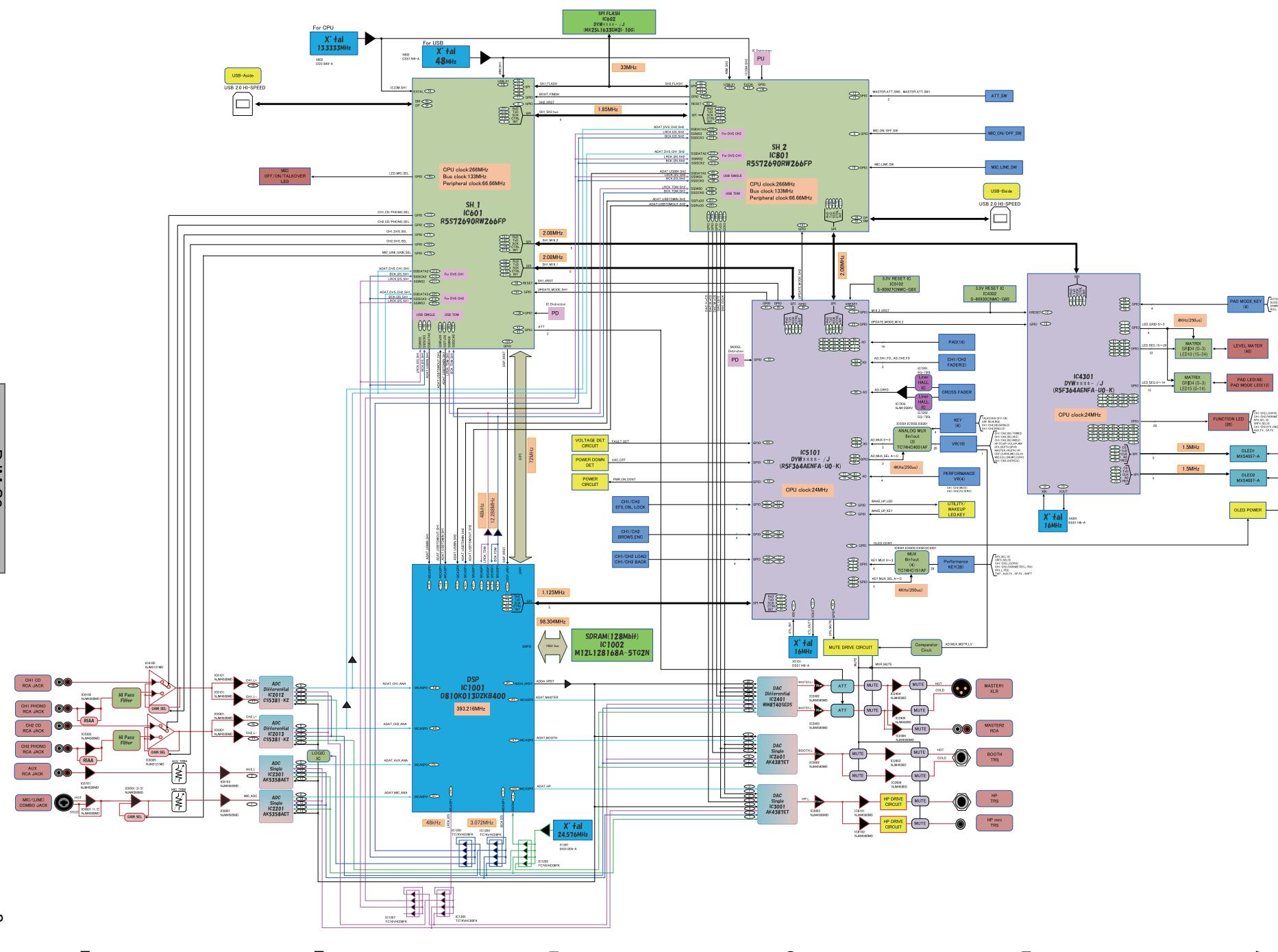
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The **△** mark found on some components indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply is shown with the marked box.
- 部品を発注する場合は、必ず「分解図と部品表」または「電気部品表」を参照してください。
- △印の部品は、安全上重要な部品です。
交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。
- 印は電源の供給源を示しています。

Note:
The 1 and 2 Assys of CH*FD Assys have the same circuitry, parts, and board shapes.
Only printed information is different, because their part numbers and wiring numbers are different.
They are handled similarly in their production management.
Therefore, either 1 or 2 Assy of the respective Assys is assembled in the respective place.

注意:
CH*FD ASSY の 1 と 2 は回路そのもの、使用部品、基板形状は同じです。
部品番号と配線番号が違うため印刷内容が異なります。
生産上は 1 と 2 の ASSY を管理していません。
このためそれぞれの場所には 1 と 2 どちらかの ASSY が配置されています。

Seeing from the backside





4.3 MATRIX TABLE

■ LED アサイン / LED assignment

A マトリクス / Matrix

PAD LED (PADB ASSY)

	LED_GRID0	LED_GRID1	LED_GRID2	LED_GRID3
LED_SEG0	PAD 1-0 BLUE	PAD 1-1 BLUE	PAD 1-2 BLUE	PAD 1-3 BLUE
LED_SEG1	PAD 1-0 RED	PAD 1-1 RED	PAD 1-2 RED	PAD 1-3 RED
LED_SEG2	PAD 1-0 GREEN	PAD 1-1 GREEN	PAD 1-2 GREEN	PAD 1-3 GREEN
LED_SEG3	PAD 1-4 BLUE	PAD 1-5 BLUE	PAD 1-6 BLUE	PAD 1-7 BLUE
LED_SEG4	PAD 1-4 RED	PAD 1-5 RED	PAD 1-6 RED	PAD 1-7 RED
LED_SEG5	PAD 1-4 GREEN	PAD 1-5 GREEN	PAD 1-6 GREEN	PAD 1-7 GREEN
LED_SEG6	PAD 2-0 BLUE	PAD 2-1 BLUE	PAD 2-2 BLUE	PAD 2-3 BLUE
LED_SEG7	PAD 2-0 RED	PAD 2-1 RED	PAD 2-2 RED	PAD 2-3 RED
LED_SEG8	PAD 2-0 GREEN	PAD 2-1 GREEN	PAD 2-2 GREEN	PAD 2-3 GREEN
LED_SEG9	PAD 2-4 BLUE	PAD 2-5 BLUE	PAD 2-6 BLUE	PAD 2-7 BLUE
LED_SEG10	PAD 2-4 RED	PAD 2-5 RED	PAD 2-6 RED	PAD 2-7 RED
LED_SEG11	PAD 2-4 GREEN	PAD 2-5 GREEN	PAD 2-6 GREEN	PAD 2-7 GREEN
LED_SEG12	HOT CUE BLUE	ROLL BLUE	SLICER BLUE	SAMPLER BLUE
LED_SEG13	HOT CUE RED	ROLL RED	SLICER RED	SAMPLER RED
LED_SEG14	HOT CUE GREEN	ROLL GREEN	SLICER GREEN	SAMPLER GREEN

ポートダイレクト / Port direct

PADB ASSY

BEAT FX ECHO	BEAT FX BACK SPIN	BEAT FX FLANGER	SERATO FX 1-1	SERATO FX 1-2	SERATO FX 1-3
BEAT FX REVERB	BEAT FX VINYL BRAKE	BEAT FX PHASER	SERATO FX 2-1	SERATO FX 2-2	SERATO FX 2-3
CH1 ←	CH1 →	BEAT FX SAMPLER	BEAT FX AUX	CH2 ←	CH2 →

PNL1B ASSY

4 BEAT LOOP CH1	1/2X CH1	2X CH1	4 BEAT LOOP CH2	1/2X CH2	2X CH2
EXF ON CH1	EXF ON CH2	PANEL/UTILITY /WAKE UP			

FRVR ASSY

MIC OFF/ON /TALKOVER

LEVEL METER (LVMT ASSY)

	LED_GRID0	LED_GRID1	LED_GRID2	LED_GRID3
LED_SEG15	CLIP LEFT	CLIP CENTER	CLIP RIGHT	
LED_SEG16	CH1 LEVEL RED 1/2	MASTER L RED 1/2	MASTER R RED 1/2	CH2 LEVEL RED 1/2
LED_SEG17	CH1 LEVEL RED 2/2	MASTER L RED 2/2	MASTER R RED 2/2	CH2 LEVEL RED 2/2
LED_SEG18	CH1 LEVEL YELLOW 1/3	MASTER L YELLOW 1/3	MASTER R YELLOW 1/3	CH2 LEVEL YELLOW 1/3
LED_SEG19	CH1 LEVEL YELLOW 2/3	MASTER L YELLOW 2/3	MASTER R YELLOW 2/3	CH2 LEVEL YELLOW 2/3
LED_SEG20	CH1 LEVEL YELLOW 3/3	MASTER L YELLOW 3/3	MASTER R YELLOW 3/3	CH2 LEVEL YELLOW 3/3
LED_SEG21	CH1 LEVEL GREEN 1/4	MASTER L GREEN 1/4	MASTER R GREEN 1/4	CH2 LEVEL GREEN 1/4
LED_SEG22	CH1 LEVEL GREEN 2/4	MASTER L GREEN 2/4	MASTER R GREEN 2/4	CH2 LEVEL GREEN 2/4
LED_SEG23	CH1 LEVEL GREEN 3/4	MASTER L GREEN 3/4	MASTER R GREEN 3/4	CH2 LEVEL GREEN 3/4
LED_SEG24	CH1 LEVEL GREEN 4/4	MASTER L GREEN 4/4	MASTER R GREEN 4/4	CH2 LEVEL GREEN 4/4

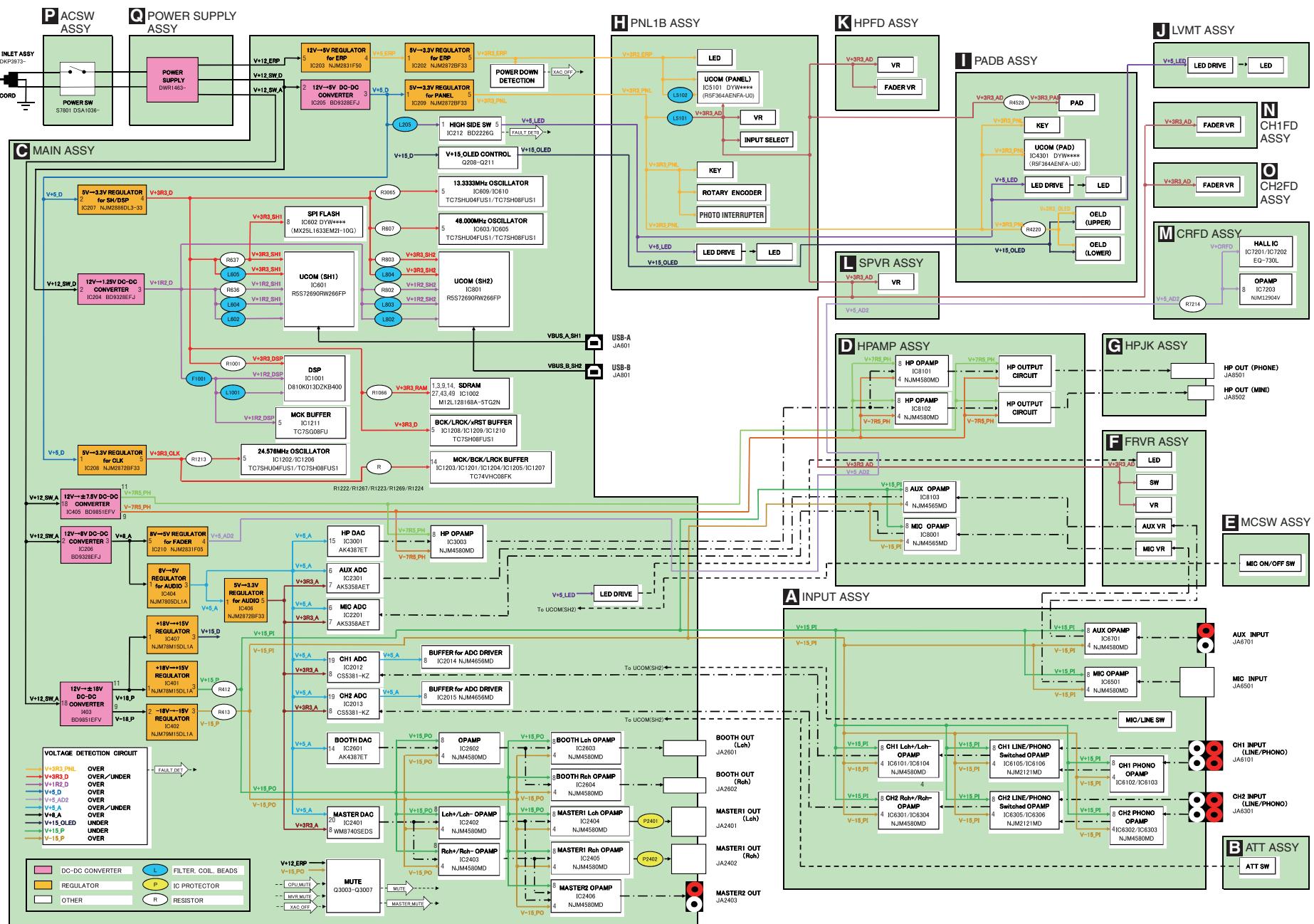
■ KEY アサイン / KEY assignment

SH2 UCOM (IC801)

ピン番号 Pin No.	信号名 Signal Name	経路 Route	操作子 Operating Element
8pin	MIC_ON/OFF_SW	PORT DIRECT	MIC ON/OFF
10pin	MIC_LINE_SW	PORT DIRECT	LINE/MIC LEVEL
13pin	MASTER_ATT_SW0	PORT DIRECT	MASTER ATT.
14pin	MASTER_ATT_SW1	PORT DIRECT	MASTER ATT.

PANEL UCOM (IC5101)

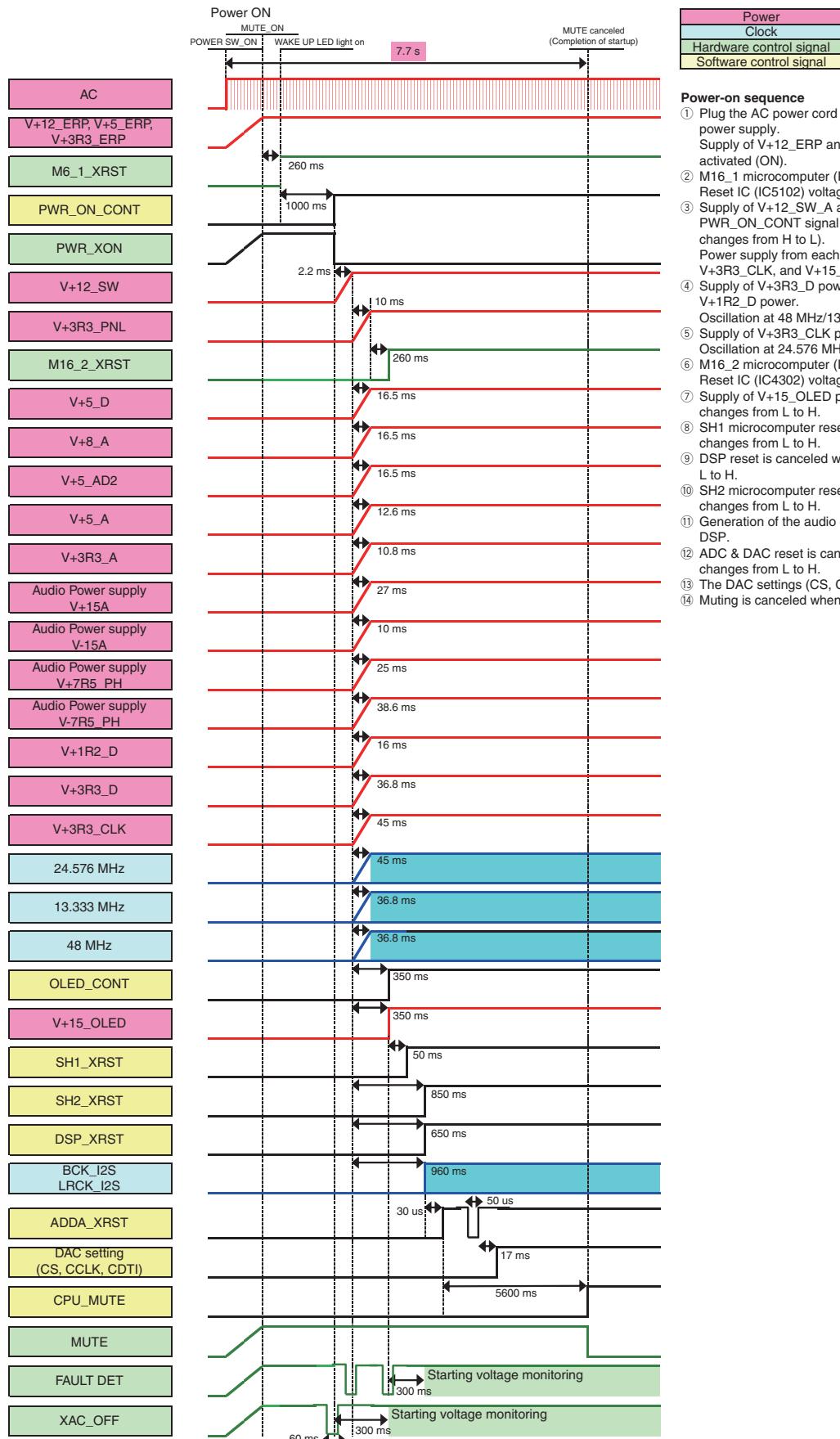
ピン番号 Pin No.	信号名 Signal Name	経路 Route	操作子 Operating Element
53pin	KEY_MUX0	MULTIPLEXER KEY_MUX_SEL_A KEY_MUX_SEL_B KEY_MUX_SEL_C	0 CH1 4 BEAT LOOP
			1
			2 CH1 1/2X
			3 CH1 2X
			4 CH2 4 BEAT LOOP
			5 CH2 2X
			6 CH2 1/2X
			7 SHIFT
			0 BEAT FX ECHO
			1 BEAT FX BACK SPIN
4pin	KEY_MUX1	MULTIPLEXER KEY_MUX_SEL_A KEY_MUX_SEL_B KEY_MUX_SEL_C	2 BEAT FX FLANGER
			3 BEAT FX REVERB
			4 BEAT FX VINYL BRAKE
			5 CH1 PARAMETER ←
			6 CH1 PARAMETER →
			7 BEAT FX PHASER
			0
			1
5pin	KEY_MUX2	MULTIPLEXER KEY_MUX_SEL_A KEY_MUX_SEL_B KEY_MUX_SEL_C	2 SAMPLER FX ON
			3 BEAT ←
			4 BEAT →
			5 TAP
			6 AUX FX ON
			7
			0 CH2 PARAMETER →
			1 CH2 PARAMETER ←
6pin	KEY_MUX3	MULTIPLEXER KEY_MUX_SEL_A KEY_MUX_SEL_B KEY_MUX_SEL_C	2 SERATO DJ FX 2-1
			3 SERATO DJ FX 1-1
			4 SERATO DJ FX 1-2
			5 SERATO DJ FX 2-2
			6 SERATO DJ FX 1-3
			7 SERATO DJ FX 2-3
			0 CH1 LOAD
			1 CH1 BACK
			2 CH1 ROTALY SELECTER
			3 CH2 ROTALY SELECTER
			4 CH2 BACK
			5 CH2 LOAD
			6 CH2 ROTALY SELECTER
			7 CH1 ROTALY SELECTER
			8 CH1 BACK
			9 CH1 LOAD
			10 CH1 ROTALY SELECTER
			11 CH2 ROTALY SELECTER
			12 CH2 BACK
			13 CH2 LOAD
			14 CH2 ROTALY SELECTER
			15 CH1 BACK
			16 CH1 LOAD
			17 CH1 ROTALY SELECTER
			18 CH2 ROTALY SELECTER
			19 CH2 BACK
			20 CH2 LOAD
			21 CH2 ROTALY SELECTER
			22 CH1 BACK
			23 CH1 LOAD
			24 CH1 ROTALY SELECTER
			25 CH2 ROTALY SELECTER
			26 CH2 BACK
			27 CH2 LOAD
			28 CH2 ROTALY SELECTER
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			41 CH2 LOAD
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			43 CH1 BACK
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			45 CH1 ROTALY SELECTER
			46 CH2 ROTALY SELECTER
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			52 CH1 ROTALY SELECTER
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			58 CH1 LOAD
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			93 CH1 LOAD
			94 CH1 ROTALY SELECTER
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			100 CH1 LOAD
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			105 CH2 ROTALY SELECTER
			106 CH1 BACK
			107 CH1 LOAD
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			109 CH2 ROTALY SELECTER
			110 CH2 BACK
			111 CH2 LOAD
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			130 CH2 ROTALY SELECTER
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			173 CH2 BACK
			174 CH2 LOAD
			175 CH2 ROTALY SELECTER
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			178 CH1 ROTALY SELECTER
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			210 CH2 ROTALY SELECTER
			211 CH1 BACK
			212 CH1 LOAD
			213 CH1 ROTALY SELECTER
			214 CH2 ROTALY SELECTER
			215 CH2 BACK
			216 CH2 LOAD
			217 CH2 ROTALY SELECTER
			218 CH1 BACK
			219 CH1 LOAD
			220 CH1 ROTALY SELECTER



5. DIAGNOSIS

5.1 STARTUP SEQUENCE

■ Timing Chart of Power-on, Reset, and Muting



Power-on sequence

- ① Plug the AC power cord in and set the POWER switch to ON to start power supply.
Supply of V+12_ERP and V+3R3_ERP power starts. Muting is activated (ON).
- ② M16_1 microcomputer (IC5101) reset is canceled when the Reset IC (IC5102) voltage is detected.
- ③ Supply of V+12_SW_A and V+12_SW_D power starts when the PWR_ON_CONT signal changes from L to H (the PWR_XON signal changes from H to L).
Power supply from each power IC, except for V+3R3_D, V+3R3_CLK, and V+15_OLED, starts.
- ④ Supply of V+3R3_D power is automatically triggered by supply of V+1R2_D power.
Oscillation at 48 MHz/13,333 MHz starts.
- ⑤ Supply of V+3R3_CLK power starts.
Oscillation at 24.576 MHz starts.
- ⑥ M16_2 microcomputer (IC4301) reset is canceled when the Reset IC (IC4302) voltage is detected.
- ⑦ Supply of V+15_OLED power starts when the OLED_CONT signal changes from L to H.
- ⑧ SH1 microcomputer reset is canceled when the SH1_XRST signal changes from L to H.
- ⑨ DSP reset is canceled when the DSP_XRST signal changes from L to H.
- ⑩ SH2 microcomputer reset is canceled when the SH2_XRST signal changes from L to H.
- ⑪ Generation of the audio clock signals (BCK and LRCK) is started at DSP.
- ⑫ ADC & DAC reset is canceled when the ADDA_XRST signal changes from L to H.
- ⑬ The DAC settings (CS, CCLK, CDTI) are made.
- ⑭ Muting is canceled when the CPU_MUTE signal changes from L to H.

5.2 TROUBLESHOOTING

A Table of Contents in Troubleshooting

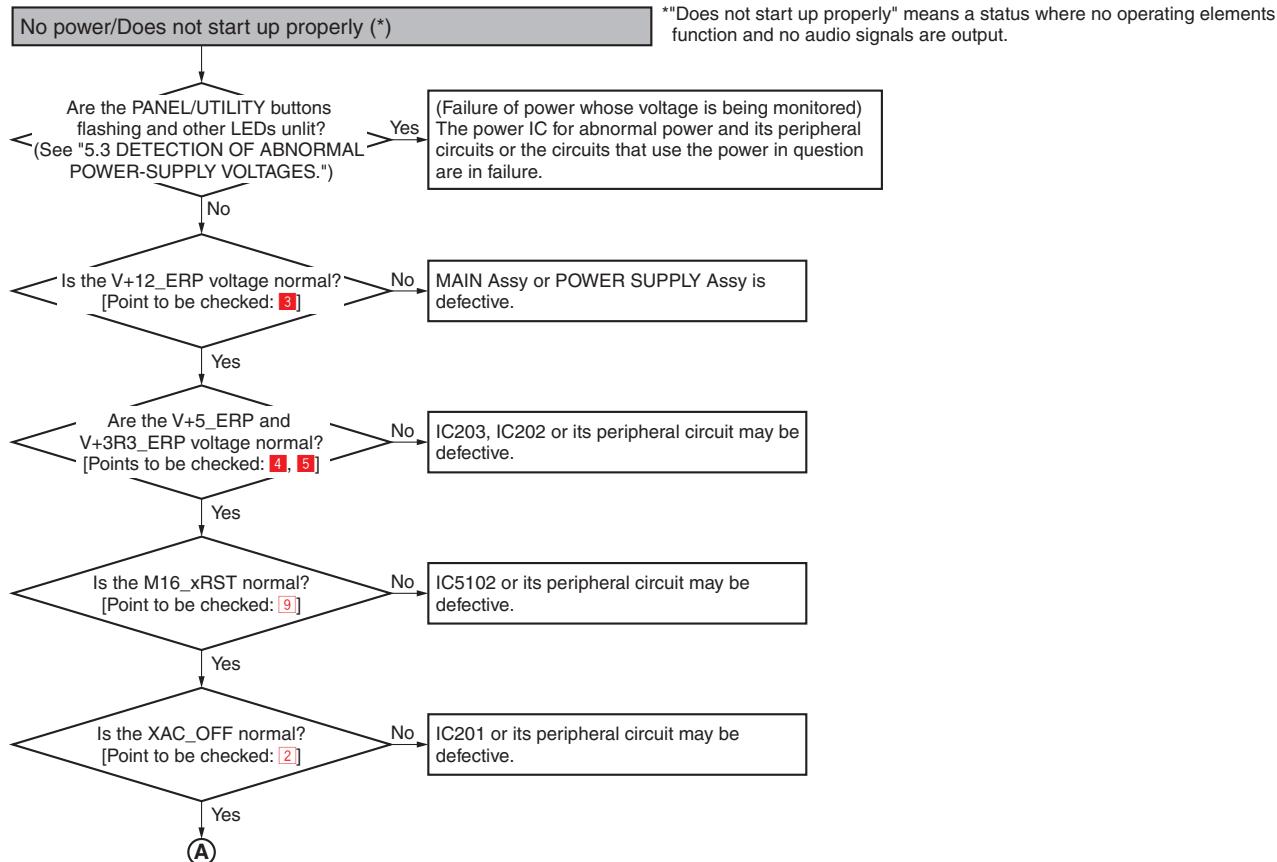
Prior Confirmation	Check that the cables for connection of the external equipment and internal cables are properly connected and that there is no breakage in those cables.
Startup-Related Problems	No power/Does not start up properly
Display-Related Problems	<ul style="list-style-type: none"> The LED(s) not lit/Abnormal LED indication(s) No or abnormal OLED display indications
Operation-Related Problems	<ul style="list-style-type: none"> The buttons, slide switches, INPUT SELECT switches, pads, HP CUE fader, or rotary VRs (except for MIC LEVEL and AUX LEVEL) do not function. The rotary VRs (MIC LEVEL, AUX LEVEL) do not function. Rotary selector not controllable The effect ON/OFF lever do not function. The crossfader does not function or functions abnormally. The channel faders do not function.
Audio-Related Problems	<ul style="list-style-type: none"> No audio signals from the CH audio input connectors are available. No audio signals from the MIC connectors are available. The microphone volume is too low. No audio signals from the AUX connectors are available. No audio signals are output from the MASTER 1 / MASTER 2 connectors. The volume from the MASTER 1 and 2 connectors is too low or the MASTER ATT does not function. No audio signals are output from the BOOTH connector. No audio signals are output from the PHONES connectors. No audio signals are input/output via the USB connectors.
DVS-Related Problems	No DVS operations
PC-Connection-Related Problems	<ul style="list-style-type: none"> The DJM-S9 is not recognized by a PC. The Firmware cannot be updated.

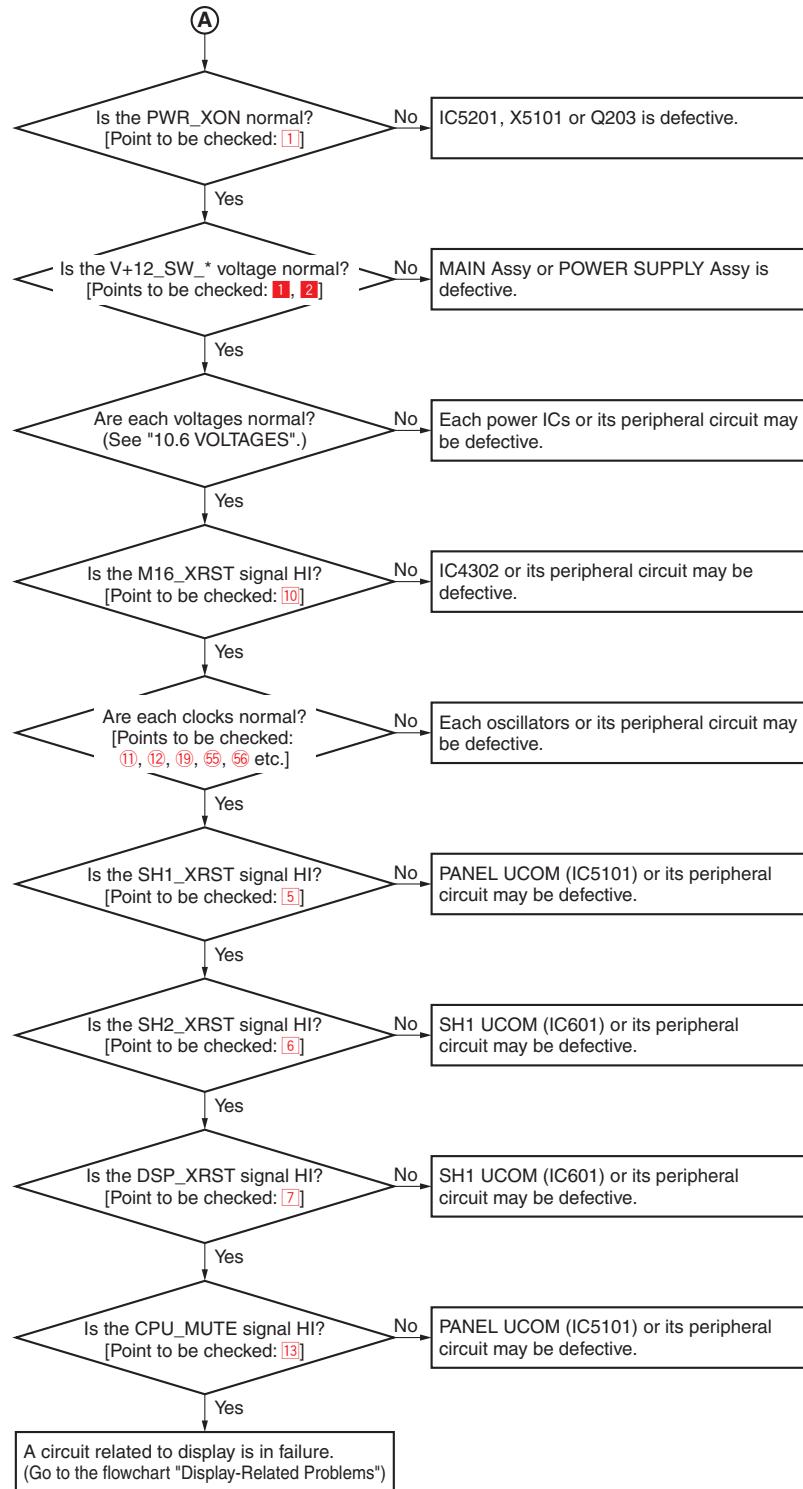
About descriptions of "Points to be checked: *, etc." in the flowcharts

Only the representative points to be checked are indicated as the points to be checked for the CH audio inputs and the operating elements, which have the same function (circuits).

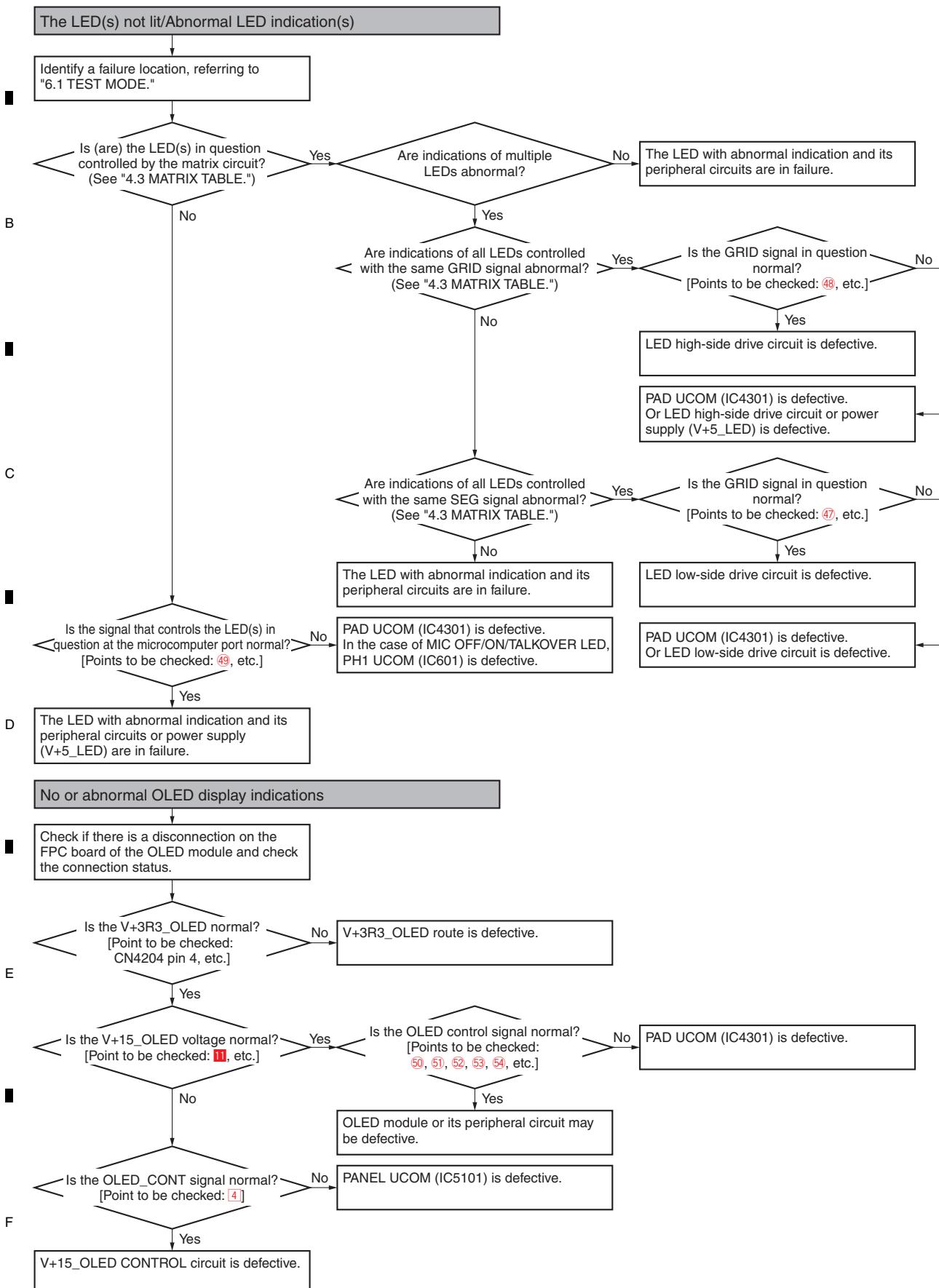
Read the indicated points as the points corresponding to the part actually in failure.

Startup-Related Problems

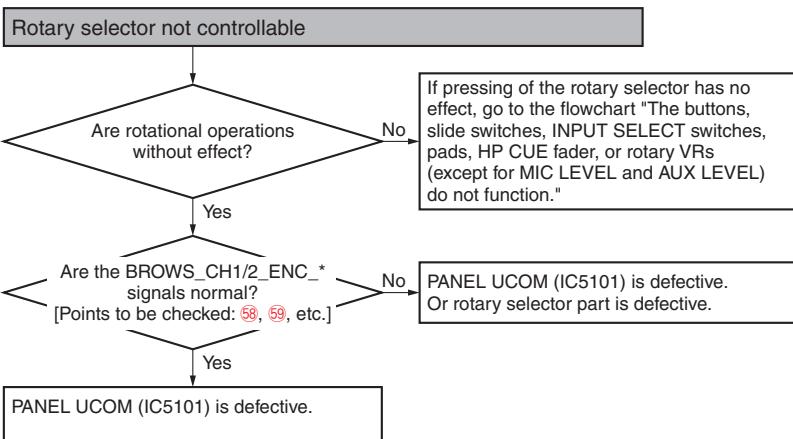
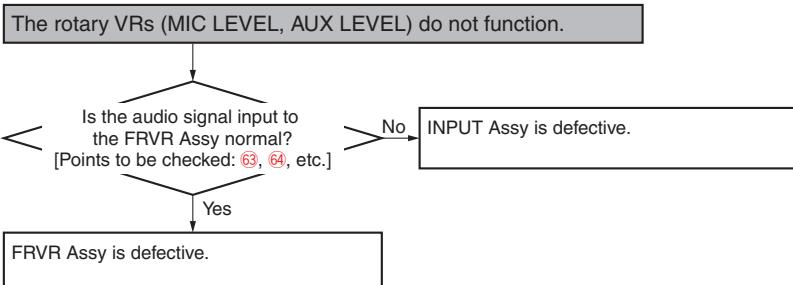
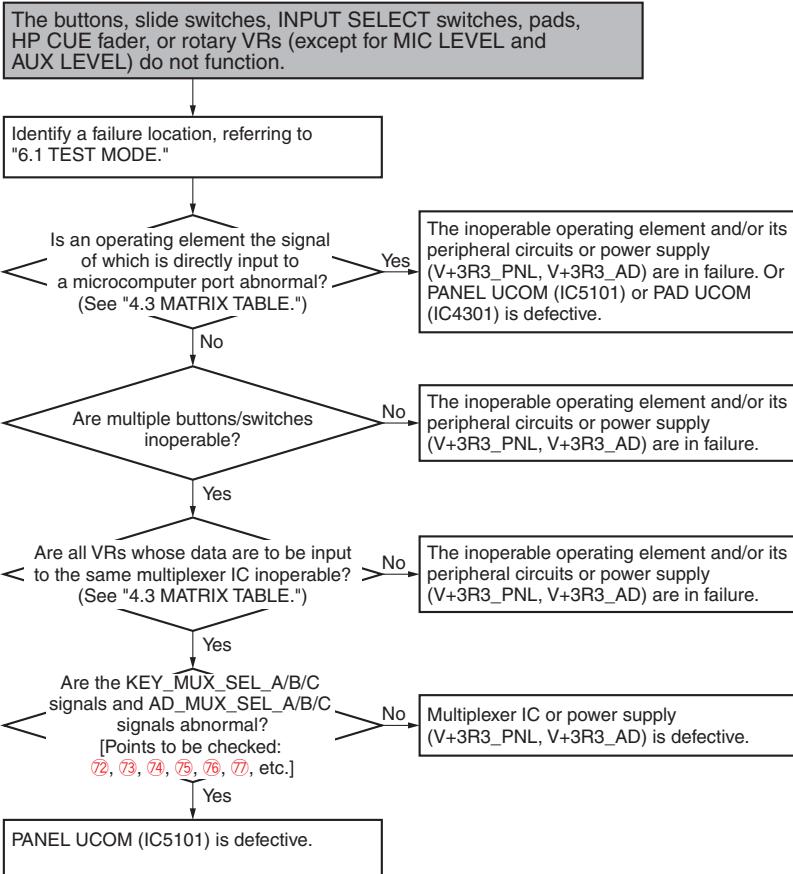


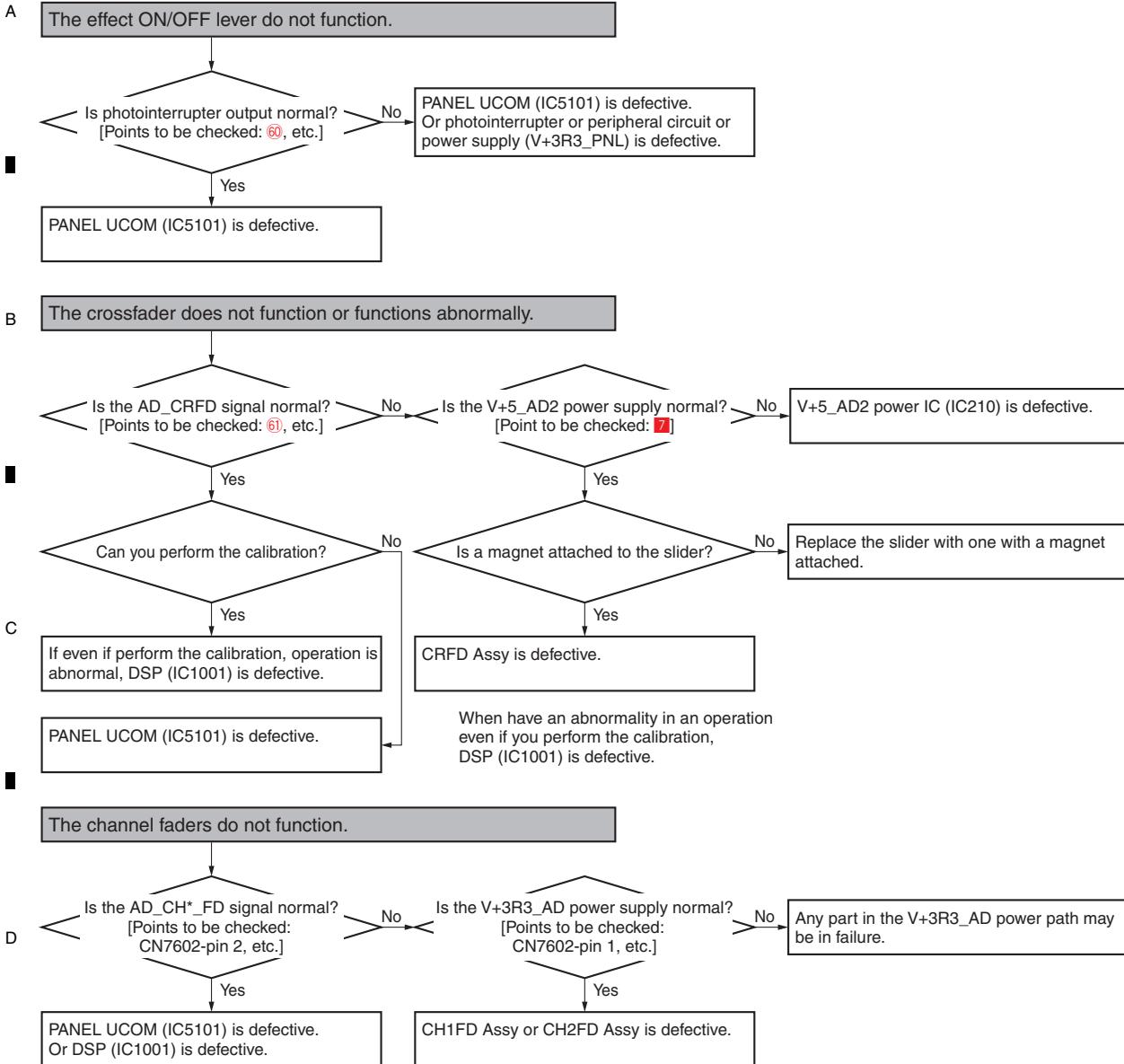


A Display-Related Problems



Operation-Related Problems



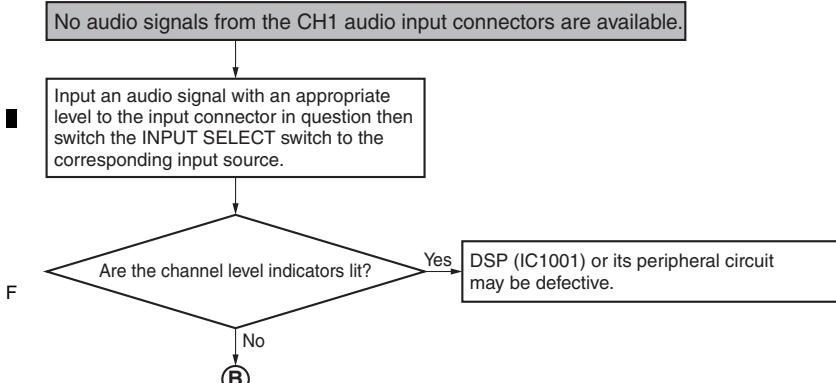


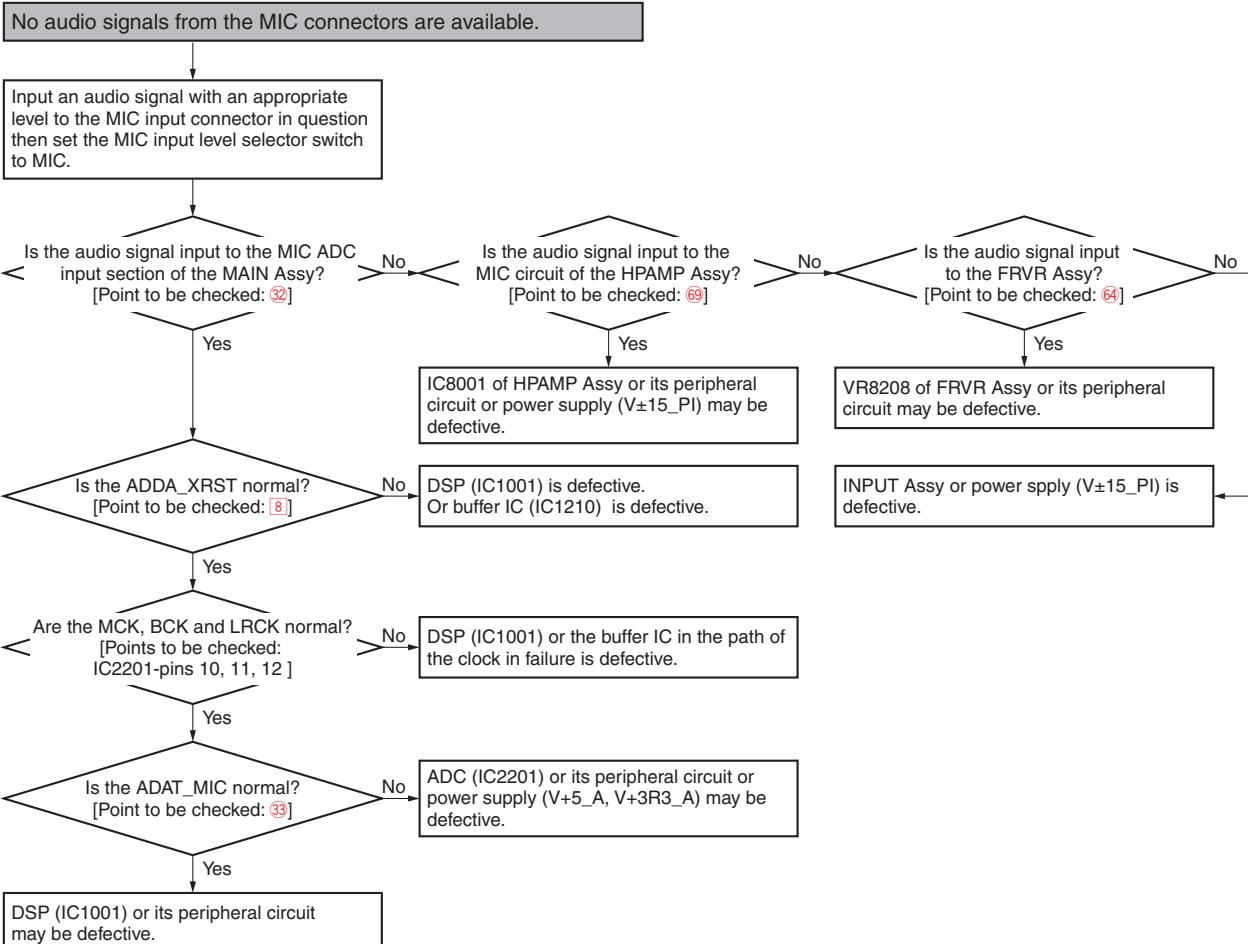
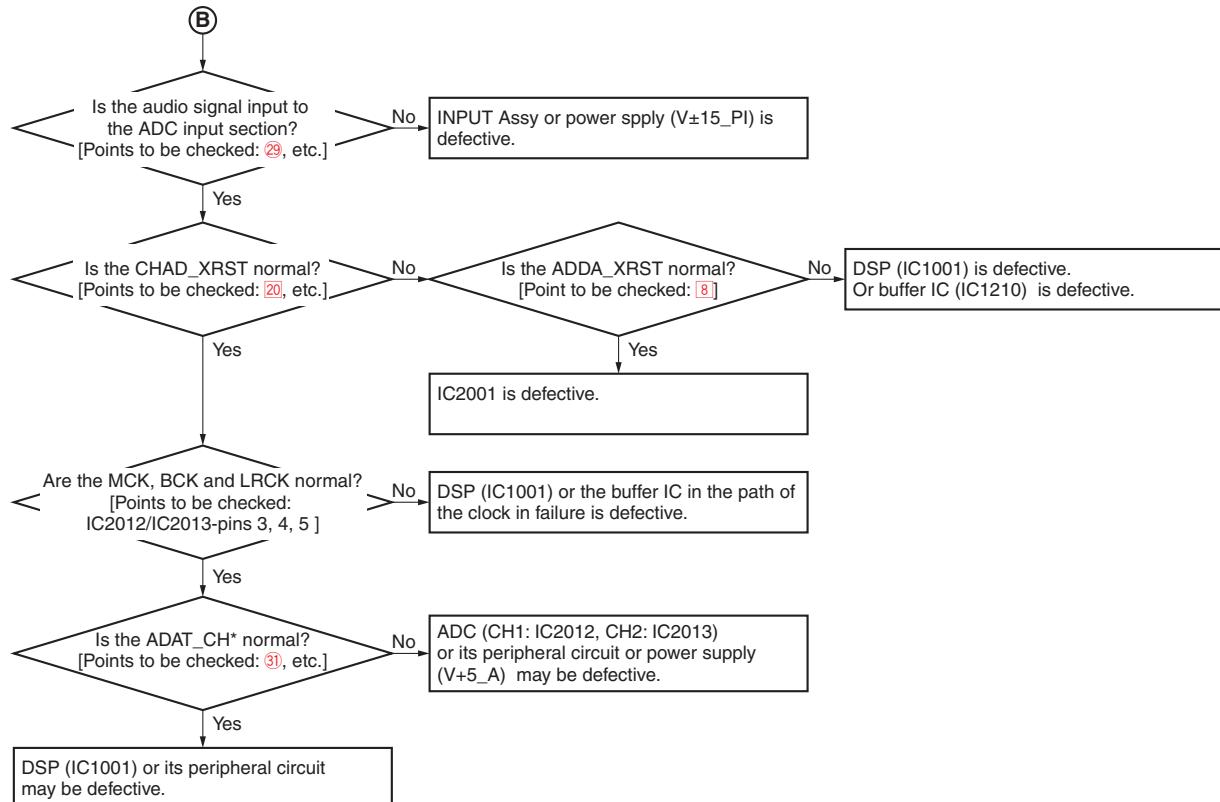
Audio-Related Problems

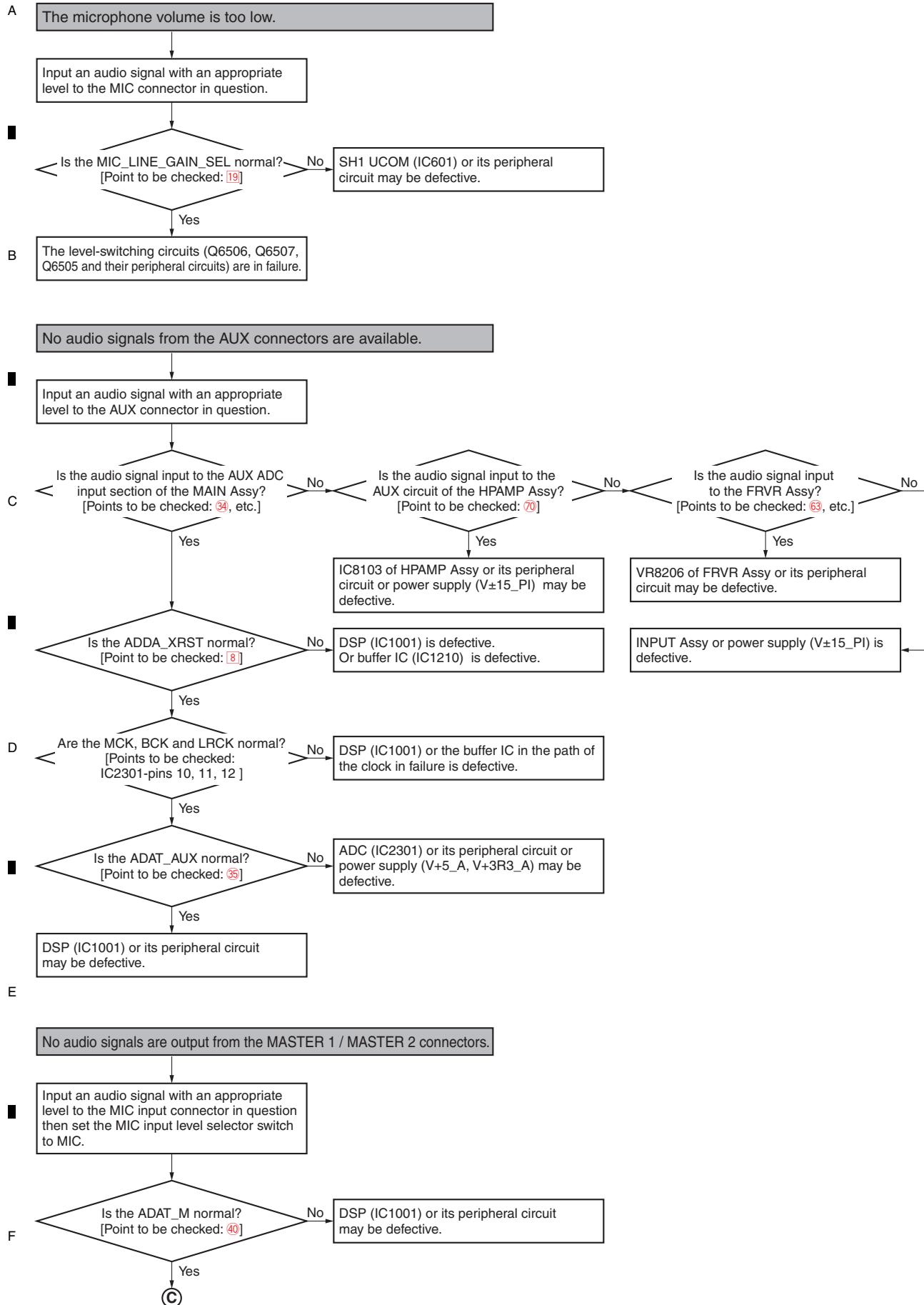
[Prior Confirmation]

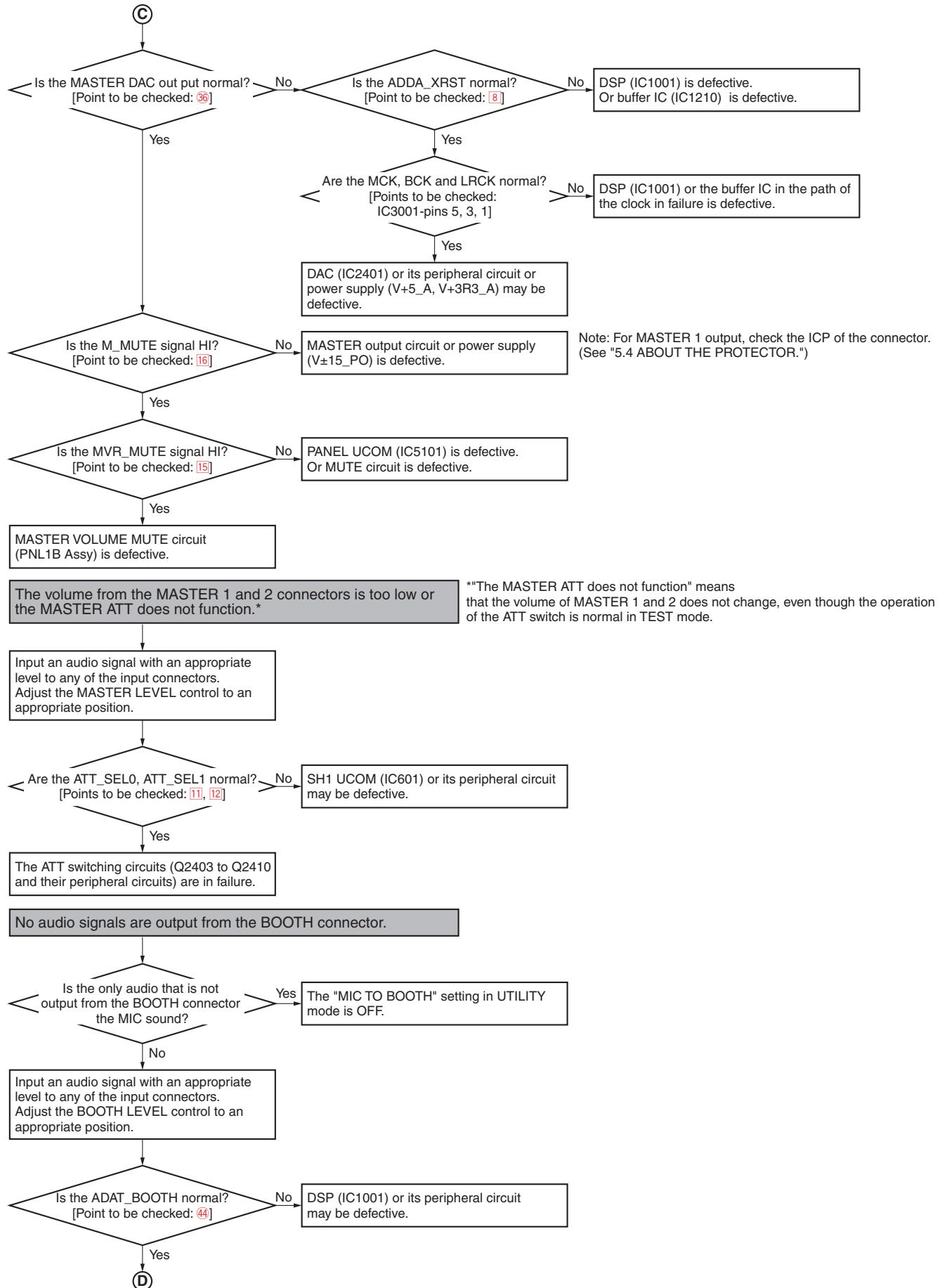
Check that the displays and operations are normal.

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









A

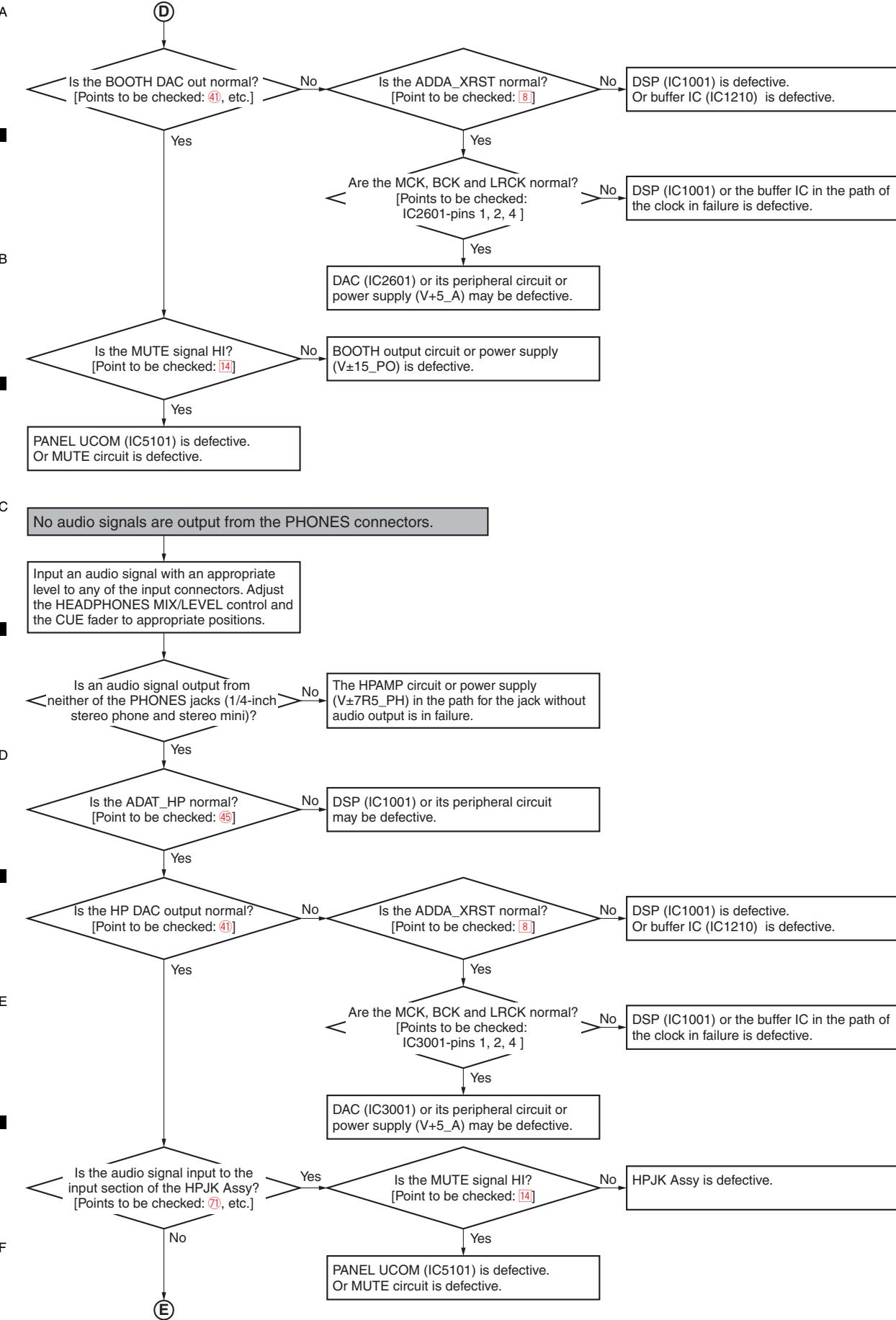
B

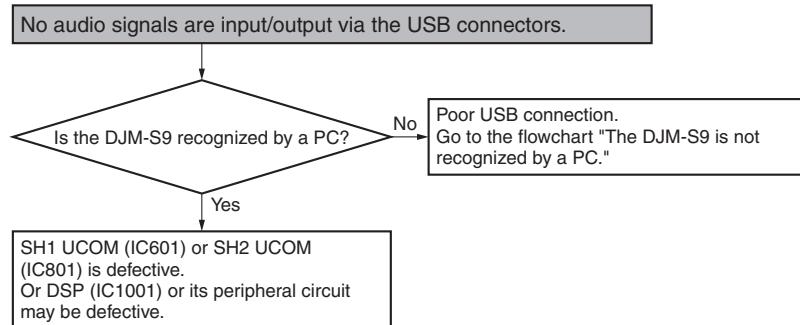
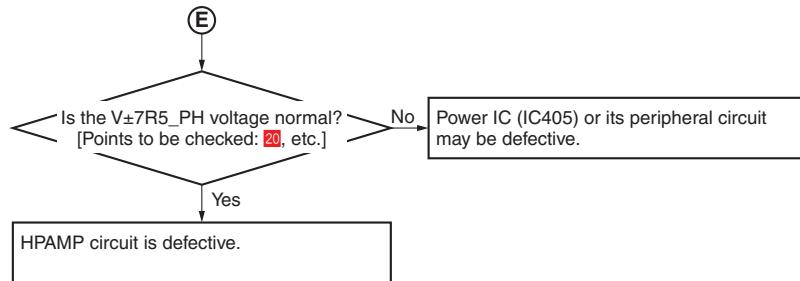
C

D

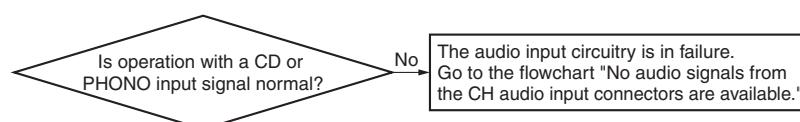
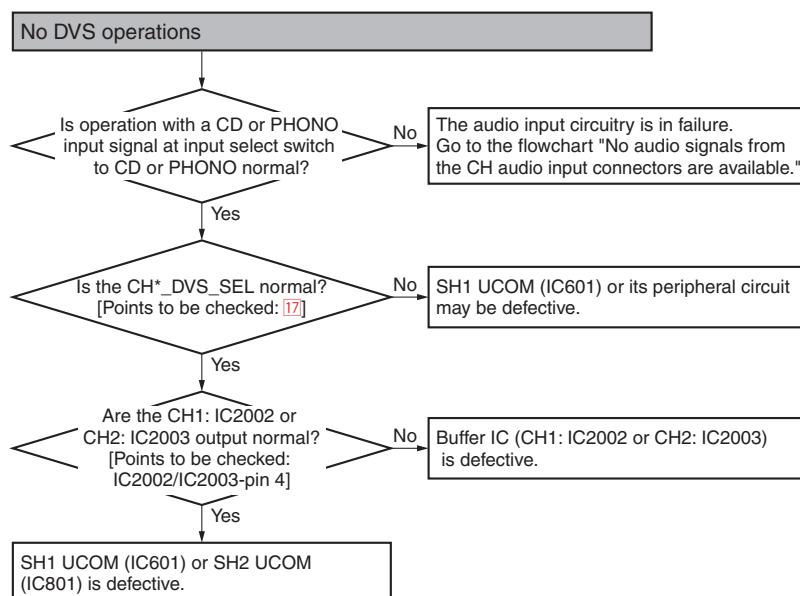
E

F

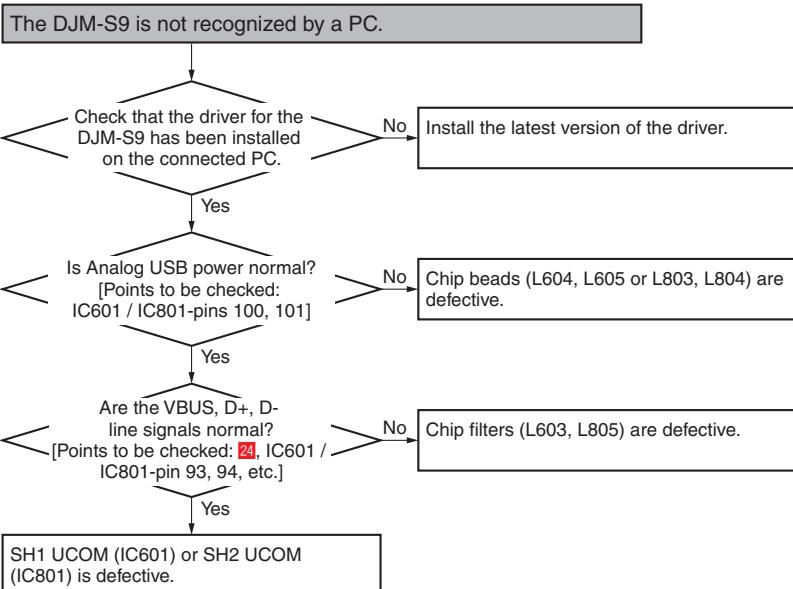




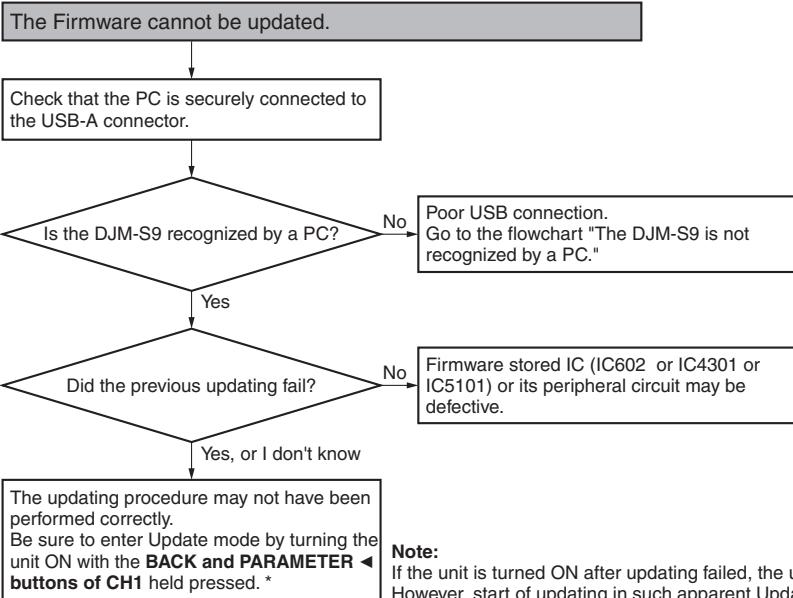
DVS-Related Problems



A PC-Connection-Related Problems



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5.3 DETECTION OF ABNORMAL POWER-SUPPLY VOLTAGES

The PANEL UCOM (IC5101) of this unit always monitors various power voltages and will shut the unit off immediately after an error is detected.

Content to be monitored

A voltage abnormality, such as a voltage drop or voltage rise in any of the various power-supply ICs in the MAIN Assy is monitored.

Voltages to be detected

Voltage to be monitored	Excess voltage	Reduced voltage	Voltage to be monitored	Excess voltage	Reduced voltage
V+3R3_PNL	4.08 V	—	V+5_A	6.43 V	3.71 V
V+3R3_D	4.08 V	2.11 V	V+8_A	9.77 V	—
V+1R2_D	1.63V	—	V+15_OLED	—	10.31 V
V+5_D	6.91V	—	V+15_P	—	11.31 V
V+5_AD2	6.91V	—	V-15_P	-11.77 V	—

Detection terminals and their terminal voltage

TP terminal for the FAULT_DET signal in the MAIN Assy or TP terminal of the FAULT_DET input terminal (44 pins) of the PANEL UCOM (IC5101) in the PNL1B Assy

In normal operation : HI (3.3 V)

When an error is detected : LOW (0 V)

Timing of monitoring start

1,900 msec after power-on

Timing upon judgment as a failure

50 msec after an error was detected

LED indication when an error is generated

If an error is detected, the PANEL/UTILITY button LED flashes and all other LEDs become unlit.

Restoration method

If the unit shuts itself off because of error detection, after completing diagnosis unplug the power cord. Then, plug the power cord in after a while then turn the unit back on.

Diagnostic procedure

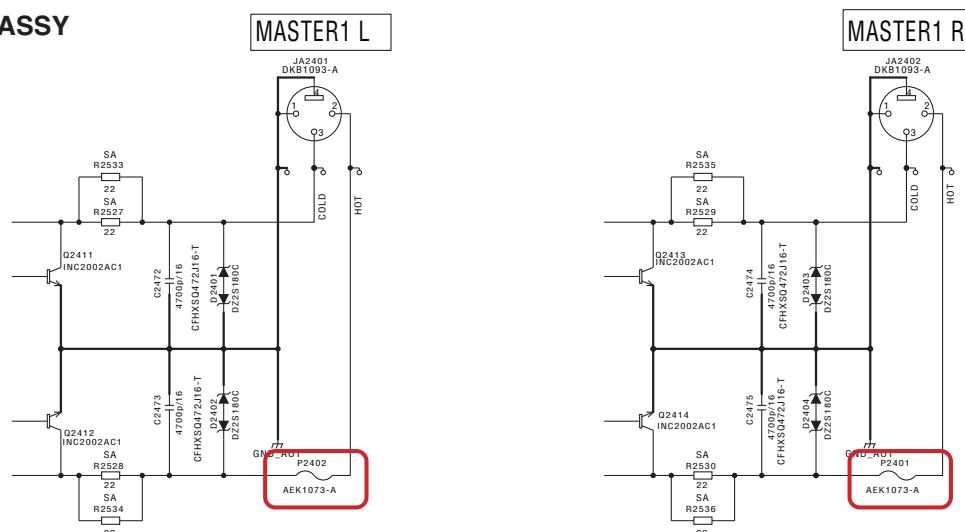
- Check that each power-supply IC is not short-circuited to GND.
- Because power voltage monitoring starts about 2 seconds after the unit is turned on, check each power-supply IC before voltage monitoring starts.
- If checking of all power-supply ICs cannot be finished before voltage monitoring starts and the unit shuts itself off, turn the unit back on, following the procedure described in "Restoration method" above, then continue checking. Repeat this until checking of all power-supply ICs is completed.

5.4 ABOUT PROTECTOR

This unit uses ICPs (IC protectors) in MASTER1 output circuit.

If the specified signal from the MASTER 1 connectors (XLR) is not properly output, check if any ICP is activated.

C MAIN ASSY



6. SERVICE MODE

6.1 TEST MODE

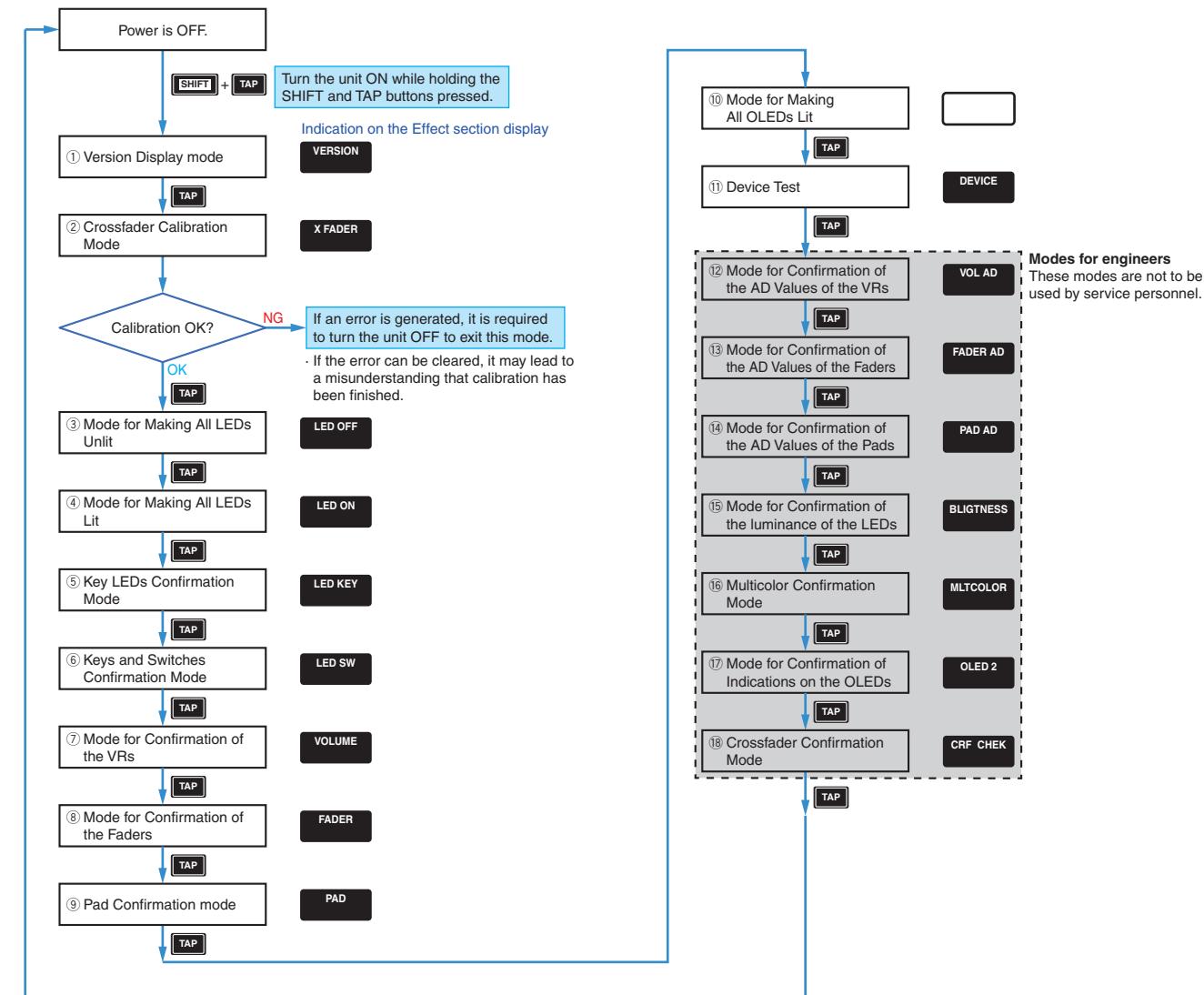
A Outline of Test Mode

The following modes are provided in Test mode of this unit:

- ① Version Display mode
- ② Crossfader Calibration Mode
- ③ Mode for Making All LEDs Unlit
- ④ Mode for Making All LEDs Lit
- ⑤ Key LEDs Confirmation Mode
- ⑥ Keys and Switches Confirmation Mode
- ⑦ Mode for Confirmation of the VRs
- ⑧ Mode for Confirmation of the Faders
- ⑨ Pad Confirmation mode
- ⑩ Mode for Making All OLEDs Lit
- ⑪ Device Test

B How to Operate in Test Mode

How to Enter and Shift Test Mode

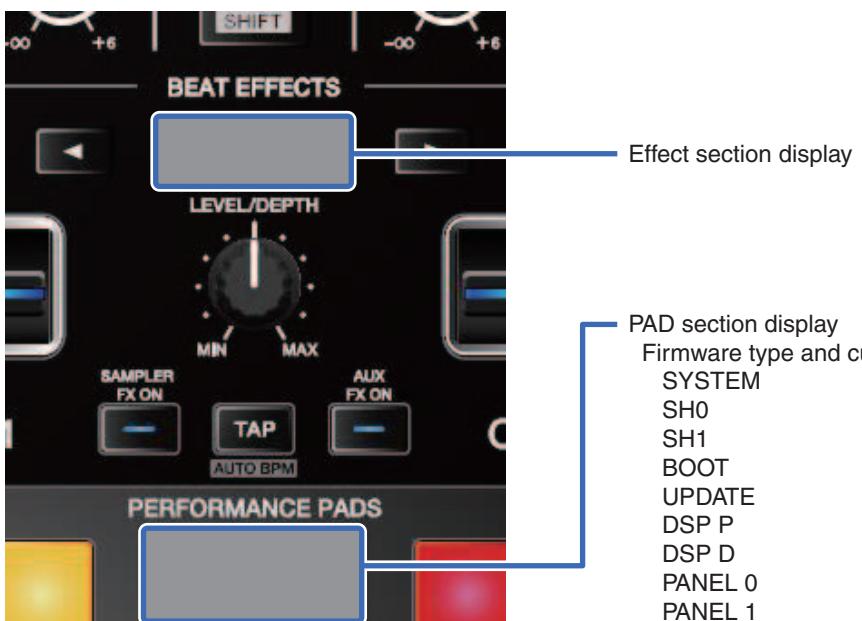


① Version Display Mode

This mode is for confirming the firmware version of each microcomputer.

The firmware type (system, main microcomputer, submicrocomputer, DSP, etc.) and the current version of the selected firmware is indicated on the PAD section display.

When Version Display mode is entered, the system firmware version is displayed. The firmware type to be displayed can be changed with the BEAT **◀** or **▶** button.



B
PAD section display
Firmware type and current version
SYSTEM
SH0
SH1
BOOT
UPDATE
DSP P
DSP D
PANEL 0
PANEL 1

Alert of Crossfader Calibration Not Implemented

If the blue LEDs are flashing immediately after Test mode is entered, calibration of the crossfader has not been implemented yet. Perform calibration, referring to the next section "② Crossfader Calibration Mode."



A

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A ② Crossfader Calibration Mode

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

Calibration 1: The AD values for the specific 5 points of the crossfader are recorded.

[A jig for positioning of the five points for calibration of the noncontact faders \(GGF1717\) is required.](#)

Calibration 2: The AD values for both end positions of the crossfader are recorded.

[The Fader bumper A \(GNK1010\) are required.](#)

Calibration 1

When Crossfader Calibration mode is entered, the CH1 pads 1–4, CH2 pad 1, HOT CUE mode button, and ROLL mode button light in white. On the PAD section display, "CALIB 01" and the current AD value of the crossfader are displayed.

B Note: For positioning, be sure to use a jig for positioning of the five points for calibration of the noncontact faders (GGF1717).

The AD values on the PAD section display indicated in this manual are merely examples.

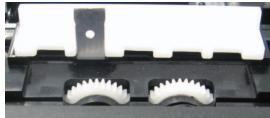
NEVER move the crossfader to a position that corresponds to the value on the screen indicated in this manual.



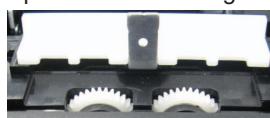
C ① Slide the crossfader to point 1 (leftmost position) then press pad 1 of CH1. The AD value of the crossfader is stored, and the color of pad 1 will become green.



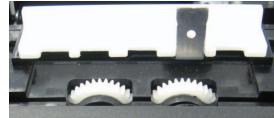
D ② Slide the crossfader to point 2 (2nd position from the left end) then press pad 2 of CH1. The AD value of the crossfader is stored, and the color of pad 2 will become green.



E ③ Slide the crossfader to point 3 (center position) then press pad 3 of CH1. The AD value of the crossfader is obtained, and the color of pad 3 will become green.



④ Slide the crossfader to point 4 (4th position from the left end) then press pad 4 of CH1. The AD value of the crossfader is obtained, and the color of pad 4 will become green.



⑤ Slide the crossfader to point 5 (rightmost position) then press pad 1 of CH2. The AD value of the crossfader is obtained, and the color of pad 1 of CH2 will become green.



⑥ Simultaneously press the HOT CUE mode and ROLL mode buttons. The color of the HOT CUE and ROLL mode buttons and the five pads becomes blue, and storing of the AD values in serial flash memory is completed.

Indication of normal completion



[Error Indications of Calibration 1]

Calibration 1 may fail for any of the following three reasons:

- I. Data storage in serial flash memory was attempted although measurement had not been performed at all 5 points.
- II. The measured AD value at any of the measurement points is outside the designed range.
- III. The magnitude relation among the measured AD values is contradictory.

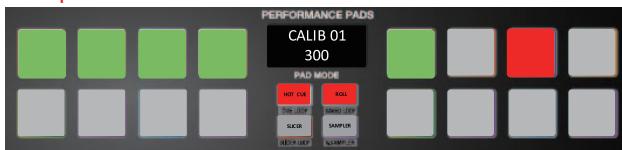
Error Indication
CH2 PAD 2
CH2 PAD 3
CH2 PAD 4

If any of the above errors is generated, the HOT CUE and ROLL mode buttons and the pad that corresponds to the error reason will light in red.

In such a case, no operation will be available. Turn the unit OFF then retry from the beginning.

If the error persists even after performing the Calibration 1 procedures again from the beginning, the crossfader may be in failure. Repair the crossfader, referring to "The crossfader does not function or functions abnormally" in "5.2 TROUBLESHOOTING," then perform Calibration 1 again.

Example of error indication



Calibration 2

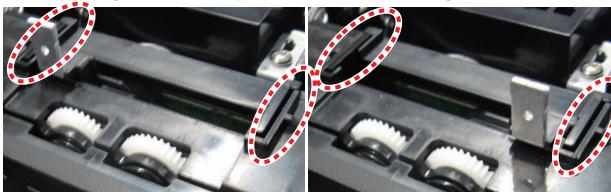
When Calibration 1 is properly completed, the SLICER mode and SAMPLER mode buttons light in white.

To start Calibration 2, simultaneously press these 2 buttons. The color of the buttons changes to green. Pads 5–8 of CH1 and pads 6 and 7 of CH2 will light in white when Calibration 2 starts.

Note: Be sure to use the Fader bumper A (GNK1010) for Calibration 2.



⑦ Attach the resin cushions for the crossfader (circled in red and white in the photos below), then slide the crossfader to its leftmost position first then to its rightmost position. Repeat these to-and-fro movements 3 times for each end (a total of 6 movements). Each time the crossfader reaches its end position, the color of the pads will change from white to green one by one, from left to right.



Slide to the leftmost then rightmost position alternately 3 times each.



⑧ After a total of 6 to-and-fro movements are finished, the color of the 6 pads and the SLICER mode and SAMPLER mode buttons will change to blue.

Indication of normal completion



This completes Calibration 1 and 2.

Displaying the results of calibration

After Calibration 1 and 2 are completed, the 7 measured calibration values can be confirmed on the PAD section display.

The data being displayed can be changed with the BEAT ▲ or ▼ button, in the following order:

- CLB1: Data item 1 of Calibration 1
- CLB2: Data item 2 of Calibration 1
- CLB3: Data item 3 of Calibration 1
- CLB4: Data item 4 of Calibration 1
- CLB5: Data item 5 of Calibration 1
- CLB6: Data for the leftmost position of Calibration 2
- CLB7: Data for the rightmost position of Calibration 2

Error alert when no calibration is performed

With no calibration, the LEDs of the hotkey buttons flash in blue in Version Display mode.

See the previous section "① Version Display Mode."

A

B

C

D

E

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A ③ Mode for Making All LEDs Unlit

This mode is for checking that all LEDs can be unlit.

B ④ Mode for Making All LEDs Lit

This mode is for checking that all LEDs can be lit.

C ⑤ Key LEDs Confirmation Mode

This mode is for checking operations of the buttons having LEDs, by lighting them.
The buttons that can be checked in this mode are indicated below:

CH1 / CH2
4BEAT LOOP
1/2X
2X
PARAMETER

BEAT EFFECTS
ECHO BACK SPIN FLANGER
REVERB VINYL BRAKE TRANS
FX1 1 FX1 2 FX1 3
FX2 1 FX2 2 FX2 3
SAMPLER FX ON
AUX FX ON

PAD MODE
HOT CUE
ROLL
SLICER
SAMPLER

D Other buttons
UTILITY



E Check Procedures

When Key LEDs Confirmation mode is entered, the LEDs of the above buttons initially light.

You can check that any of those buttons, except for the PAD MODE buttons, operates properly by making sure that the button goes dark when it is pressed once.

For operational checking of the PAD MODE buttons, proceed as follows:

1. When Key LEDs Confirmation mode is entered, all the RGB LEDs of the 4 PAD MODE buttons light (in white).
2. When the HOT CUE mode button is pressed, the R LEDs of all 4 buttons simultaneously light.
3. When the ROLL mode button is pressed, the G LEDs of all 4 buttons simultaneously light.
4. When the SAMPLER mode button is pressed, the B LEDs of all 4 buttons simultaneously light.
5. When the SLICER mode button is pressed, all the RGB LEDs of all 4 buttons simultaneously go dark.



⑥ Keys and Switches Confirmation Mode

This mode is for operational checking of the buttons that do not have their own LEDs, various switches, rotary selectors, EFFECT levers, and INPUT SELECT switches.

Buttons not having their own LEDs

For operational checking of the buttons not having their own LEDs, the LEDs of the other buttons will be used.

When Keys and Switches Confirmation mode is entered, the corresponding LEDs will light. If a button is pressed once for checking, the corresponding LED will go dark.

The buttons and the LEDs that correspond to those buttons are shown in the table below.

Button to be checked	Corresponding LED
Depression of the rotary selector	4 BEAT LOOP
BACK	1/2X
LOAD	2X
SHIFT	UTILITY
BEAT ▲ BEAT ▼	SAMPLER FX ON AUX FX ON

*For both CH1 and CH2
*For both CH1 and CH2
*For both CH1 and CH2



About the TAP button

TAP The TAP button is used to shift modes in Test mode. As this button is deemed to operate properly if mode shifting is properly performed, its operation is not checked in this mode.

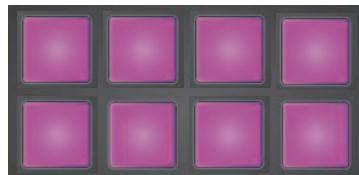
Rotary selectors

Rotational operations (clockwise and counterclockwise) of the rotary selectors can be checked, using the multicolor LEDs of the pads. The specifications are common to CH1 and CH2.

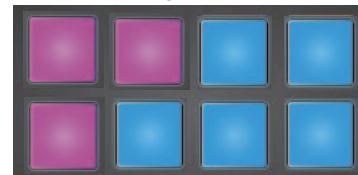


When Keys and Switches Confirmation mode is entered, the 8 pads light in purple.
Clockwise turning of the rotary selector turns off the red LEDs and counterclockwise turning turns off the blue LEDs; thus, turning it clockwise changes the pads' color to blue and turning it counterclockwise changes the color to red.
Clockwise turning starts turning off the red LEDs from pad 3 to pad 2 clockwise.
Counterclockwise turning starts turning off the blue LEDs from pad 2 to pad 3 counterclockwise.
When the rotary selector is fully turned clockwise or counterclockwise, all LEDs of all pads go dark.

When this mode is entered, all pads are lit in purple.



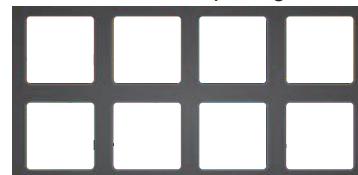
Clockwise turning turns off the red LEDs.



Counterclockwise turning turns off the blue LEDs.



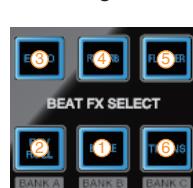
When the selector is fully turned clockwise or counterclockwise, all pads go dark.



CH1/2 INPUT SELECT switches

When Keys and Switches Confirmation mode is entered, the 12 buttons of BEAT FX and SERATO FX light.

Turning the CH1 INPUT SELECT switch to positions ①–⑥ indicated in orange in the photo below makes the corresponding LEDs of BEAT FX go dark. Turning the CH2 INPUT SELECT switch to positions ①–⑥ indicated in red in the photo below makes the corresponding LEDs of SERATO FX go dark.



A EFFECT levers

When Key LEDs Confirmation mode is entered, the LEDs of the EFFECT levers light. If LOCK/ON and ON are both detected, the LED will go dark.

The specifications are common to CH1 and CH2.



B MIC, LINE, FADER REVERSE switches

When Key LEDs Confirmation mode is entered, the LEDs corresponding to the switches indicated in the table below light. If any change is made to any of those switches, the corresponding LED will go dark.

The switches and the corresponding LEDs are shown in the table below.

Switch to be checked	Corresponding LED	Figure number
MIC input level selector switch	CH1 PARAMETER L	①
MIC ON OFF selector switch	CH1 PARAMETER R	②
MIC TALK OVER selector switch	HOT CUE	③
CROSS FADER REVERSE switch	ROLL	④
CH1 CH FADER REVERSE switch	SLICER	⑤
CH2 CH FADER REVERSE switch	SAMPLER	⑥
MASTER ATT level selector switch	CH2 PARAMETER L, R	⑦

C About the MASTER ATT level selector switch

Because the MASTER ATT level selector switch has 3 values, 2 LEDs (CH2 PARAMETER L and R) are used for operational checking.

If switching to 2 positions other than the initial position is detected, both LEDs go dark.



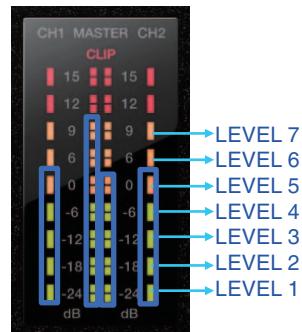
⑦ Mode for Confirmation of VRs / ⑧ Mode for Confirmation of the Faders

These modes are for checking operation of various VRs and faders.

When either mode is entered, the LEDs corresponding to various VRs or faders will light. When each VR or fader is operated to the upper or lower limit of the movable range and the appropriate maximum or minimum value for the voltage is detected, that VR/fader is regarded as normal then the corresponding LED goes dark.

The VRs/faders and the corresponding LEDs are shown in the table below.

Mode for Confirmation of the AD Values of the VRs	Mode for Confirmation of the AD Values of the Faders	Corresponding LED
CH1 TRIM CH1 FILTER CH1 EQ HI CH1 EQ MID CH1 EQ LOW	CH1 fader	CH1 Level Indicator LEVEL 5 CH1 Level Indicator LEVEL 4 CH1 Level Indicator LEVEL 3 CH1 Level Indicator LEVEL 2 CH1 Level Indicator LEVEL 1
CH2 TRIM CH2 FILTER CH2 EQ HI CH2 EQ MID CH2 EQ LOW	CH2 fader	CH2 Level Indicator LEVEL 5 CH2 Level Indicator LEVEL 4 CH2 Level Indicator LEVEL 3 CH2 Level Indicator LEVEL 2 CH2 Level Indicator LEVEL 1
MASTER LEVEL BOOTH MONITOR DEPTH SAMPLER VOLUME MIC_EQ LOW MIC_EQ HI MIC_ECHO	Crossfader	Master level indicator L LEVEL 7 Master level indicator L LEVEL 6 Master level indicator L LEVEL 5 Master level indicator L LEVEL 4 Master level indicator L LEVEL 3 Master level indicator L LEVEL 2 Master level indicator L LEVEL 1
HP LEVEL HP MIX CUT LAG CH1 CURVE CH2 CURVE	Headphone CUE fader	Master level indicator L LEVEL 5 Master level indicator L LEVEL 4 Master level indicator L LEVEL 3 Master level indicator L LEVEL 2 Master level indicator L LEVEL 1



Threshold values for the upper or lower limit of various VRs or faders

Name of VR/fader	Detection of the lower limit	Detection of the upper limit
CH1 TRIM CH1 FILTER CH1 EQ HI CH1 EQ MID CH1 EQ LOW CH2 TRIM CH2 FILTER CH2 EQ HI CH2 EQ MID CH2 EQ LOW MASTER LEVEL BOOTH MONITOR DEPTH SAMPLER VOLUME MIC_EQ LOW MIC_EQ HI MIC_ECHO HP LEVEL HP MIX CUT LAG CH1 CURVE CH2 CURVE	Less than 25	More than 1000
CH1 fader	Less than 80	More than 950
CH2 fader	Less than 80	More than 950
Crossfader	(Minimum value of Calibration 2 + 30) or less	(Maximum value of Calibration 2 - 30) or more
Headphone CUE fader	Less than 25	More than 1000

A ⑨ Pad Confirmation mode

This mode is for checking depression on the pads and lighting of the RGB LEDs.

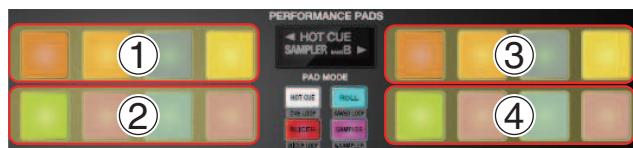
When Pad Confirmation mode is entered, the LEDs of all pads go dark.

The 16 pads are divided into 4 blocks of 4 pads, and each block can be checked in ascending order, as indicated in the photo below.

Operation of any pad other than the pads in the block being checked is invalid (in order to avoid accidentally lighting any pad that is not in the block being checked by mistakenly touching it).

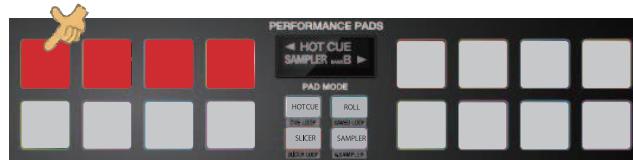
Depression on any pad that is not in the correct order is also invalid (in order to avoid doubling or skipping depression of any key).

B



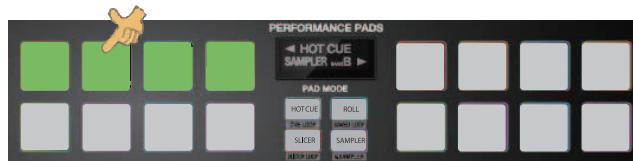
The operating procedure at Block ① is shown below.
Press Pad 1. All pads in the block light in red.

C



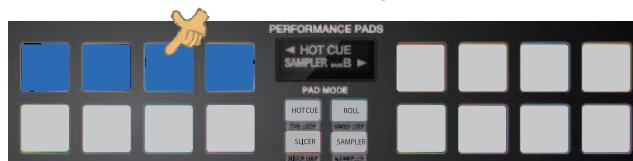
Press Pad 2. All pads in the block light in green.

D



Press Pad 3. All pads in the block light in blue.

E



Press Pad 4. All pads in the block light in white.

F



Proceed with the above steps for Blocks ② to ④.

Checking is completed when all pads in all blocks are lit in white.

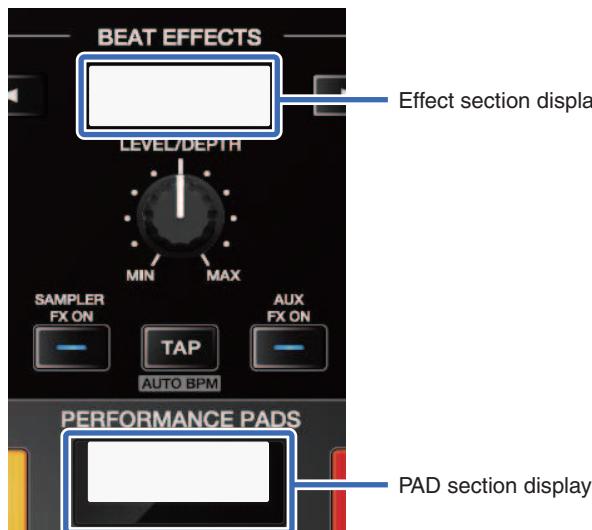


⑩ Mode for Making All OLEDs Lit

This mode is for checking the organic electroluminescent displays by making all OLEDs lit.

Check if any foreign material is attached to the display or if there are any dead pixels in the display.

Turning the CH2 rotary selector clockwise or counterclockwise will increase or decrease the luminance of the OLEDs in 16 steps.



⑪ Device Test

This mode is for checking if SDRAM for the DSP has any problem and that the ports for updating are connected.

When Test mode is started, checking of SDRAM and the ports for updating starts. Then when Device Test mode is entered, the results of such checking are displayed on the PAD section display.

- SDRAM OK : Reading and writing check of SDRAM was OK.
- SDRAM NG : Reading and writing check of SDRAM was NG.
- SD CHECK : A reading and writing check of SDRAM is in progress.
- UPDPT OK : Checking of the ports for updating was OK.
- UPDPT NG : Checking of the ports for updating was NG.
- UP CHECK : Checking is in progress.

SDRAM OK
UPDPT OK

If "CHECK" is indicated, wait until checking is finished then "OK" or "NG" is displayed.

If the result for the ports for updating was NG, which port is in failure is indicated with the LEDs indicated in the table below.

Port name	LED indicating a failure port
SH1_M16C1_CTRL	CH1_PARAM_L LED
SH1_M16C2_CTRL	CH1_PARAM_R LED
UPDATE_MODE_SH1	CH2_PARAM_L LED
UPDATE_MODE_M16_2	CH2_PARAM_R LED



6.2 ABOUT THE DEVICE

	Device Name	Function	Part No.	Ref. No.	Assy
A	POWER DOWN DETECTION CIRCUIT	3.0 V reset IC for microcomputer	S-80930CNMC-G80	IC201	MAIN Assy
	Regulator 5V (ERP) → 3.3V (ERP)	3.3 V regulator for microcomputer	NJM2872BF33	IC202	MAIN Assy
	Regulator 12V (ERP) → 5V (ERP)	5 V regulator for internal power generation	NJM2831F05	IC203	MAIN Assy
	DC-DC Converter 12V (SW) → 1.25V (D)	1.25 V DCDC converter for microcomputer	BD9328EFJ	IC204	MAIN Assy
	DC-DC Converter 12V (SW) → 5V (D)	5 V DCDC converter for internal power generation	BD9328EFJ	IC205	MAIN Assy
	DC-DC Converter 12V (SW) → 8V (A)	8 V DCDC converter for internal power generation	BD9328EFJ	IC206	MAIN Assy
	Regulator 5V (D) → 3.3V (D)	3.3 V regulator for microcomputer	NJM2886DL3-33	IC207	MAIN Assy
	Regulator 5V (D) → 3.3V (CLK)	3.3 V regulator for clock	NJM2872BF33	IC208	MAIN Assy
	Regulator 5V (D) → 3.3V (PNL)	3.3 V regulator for microcomputer	NJM2872BF33	IC209	MAIN Assy
	Regulator 8V (A) → 5V (FADER)	5 V regulator for crossfader	NJM2831F05	IC210	MAIN Assy
	1A HI-SIDE SWITCH	V+5_LED high side SW	BD2226G	IC212	MAIN Assy
	Regulator +18V (P) → +15V (P)	+15 V regulator for OP amp.	NJM78M15DL1A	IC401	MAIN Assy
	Regulator -18V (P) → -15V (P)	-15 V regulator for OP amp.	NJM79M15DL1A	IC402	MAIN Assy
	DC-DC Converter 12V (SW) → ±18V (P)	±18 V DCDC converter for internal power generation	BD9851EFV	IC403	MAIN Assy
B	Regulator 8V (A) → 5V (A)	5 V regulator for AD converter and DA converter	NJM7805DL1A	IC404	MAIN Assy
	DC-DC Converter 12V (SW) → ±7.5V (HP)	±7.5 V DCDC converter for OP amp.	BD9851EFV	IC405	MAIN Assy
	Regulator 5V (A) → 3.3V (A)	3.3 V regulator for AD converter and DA converter	NJM2872BF33	IC406	MAIN Assy
	Regulator +18V (P) → +15V (D)	+15 V regulator for Organic electroluminescence	NJM78M15DL1A	IC407	MAIN Assy
	SH1 UCOM	Main control, USB control	R5S72690RW266FP-K	IC601	MAIN Assy
	SPI FLASH	External RAM for SH1	DYW**** (MX25L1633EM2I-10G-K)	IC602	MAIN Assy
	SH2 UCOM	Main control, USB control	R5S72690RW266FP-K	IC801	MAIN Assy
	DSP	Audio DSP	D810K013DZKB400-K	IC1001	MAIN Assy
	SDRAM 128M	External RAM for DSP	M12L128168A-5TG2N-K	IC1002	MAIN Assy
	CH1_ADC (CMOS mode)	Audio AD converter (CH1)	CS5381-KZ	IC2012	MAIN Assy
	CH2_ADC (CMOS mode)	Audio AD converter (CH2)	CS5381-KZ	IC2013	MAIN Assy
	MIC ADC	Audio AD converter (MIC)	AK5358AET	IC2201	MAIN Assy
	AUX ADC	Audio AD converter (AUX)	AK5358AET	IC2301	MAIN Assy
	MASTER DAC	Audio DA converter (MASTER)	WM8740SEDS	IC2401	MAIN Assy
	BOOTH DAC	Audio DA converter (BOOTH)	AK4387ET	IC2601	MAIN Assy
	HP DAC	Audio DA converter (HEADPHONES)	AK4387ET	IC3001	MAIN Assy
D	PAD UCOM	OLED, LED and KEY control	DYW**** (R5F364AENFA-U0-K)	IC4301	PADB Assy
	PAD UCOM RESET	3.0 V reset IC for microcomputer	S-80930CNMC-G80	IC4302	PADB Assy
	HALL IC	Hall IC for crossfader	EQ-730L	IC7201, IC7202	CRFD Assy
	PANEL UCOM	VR, PAD and KEY control	DYW**** (R5F364AENFA-U0-K)(NSP)	IC5101	PNL1B Assy
E	PANEL UCOM RESET	2.7 V reset IC for microcomputer	S-80927CNMC-G8X	IC5102	PNL1B Assy

Note on DYW****

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

The IC that data are stored of DJM-S9

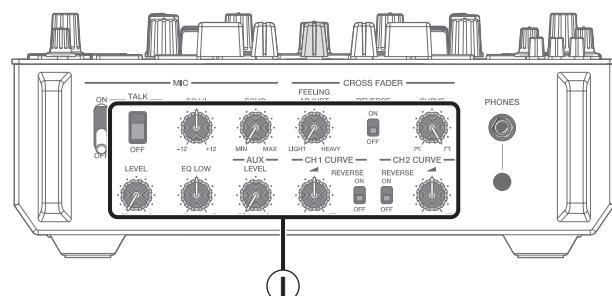
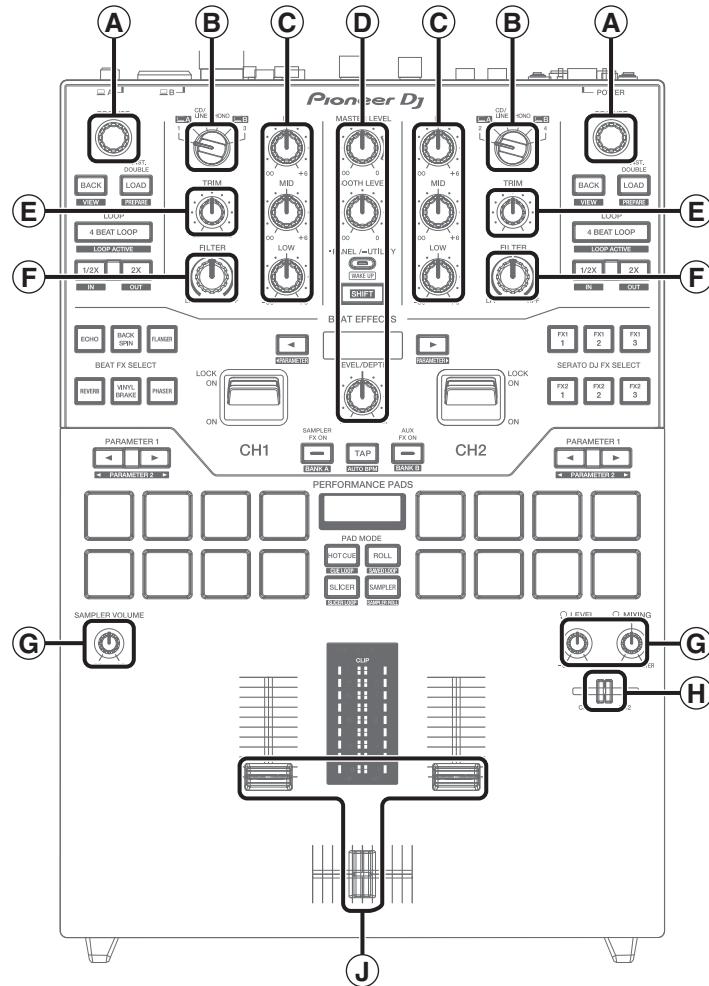
The IC that data are stored	Stored Data	Assy
FLASH ROM (IC602, DYW****)	Product firmware (for main & DSP control), User setting data, Crossfader calibration data	MAIN Assy

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



A DAA1344 x2	B DAA1345 x2	C DAA1305 x6
Black	White	White
D DAA1198 x3	E DAA1204 x2	F DAA1320 (DJM-S9) DAA1350 (DJM-S9-N) x2
White	White	White
Black	Black	Gray
G DAA1346 x3	H DAC3088 x1	I DAA1348 x9
White	White	White
Black	Black	Black
J DAC2685 (DJM-S9) DAC3164 (DJM-S9-N) x3	K DAC3089 (DJM-S9) DAC3100 (DJM-S9-N) x3	L DNK6440 x3
White (DAC2685) Black (DAC3164)	White (DAC3089) Black (DAC3100)	Gray

A Disassembly

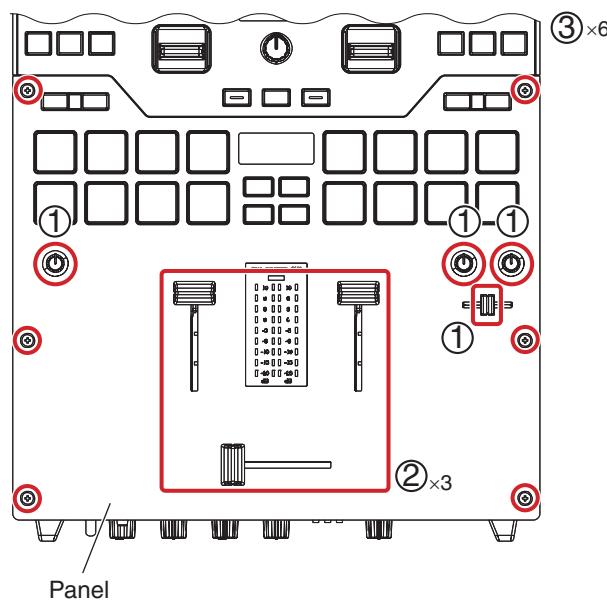
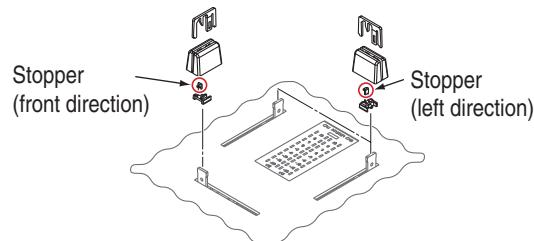
[1] Control Panel Section (1/2)

[1-1] Fader panel Section

- (1) Remove the 4 Knobs.
- (2) Remove the 3 Slider knobs 2, 3 Knobs, 3 Stoppers.
(See below.)
- (3) Remove the Panel, by removing the 6 screws.
(DJM-S9: DBA1446)
(DJM-S9-N: DBA1447)

B

The reference of the direction



C

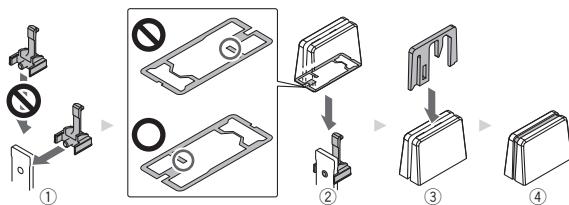
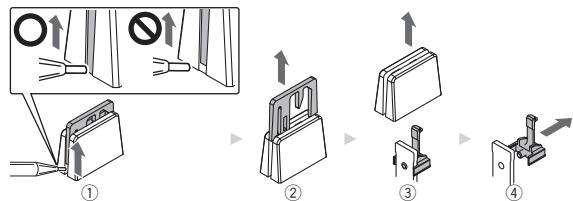
■ Assembly / Reassembly of the Slider Knob 2, Knob and Stopper

-Disassembly-

- ① Lift the lower end of the Slider knob 2, using a pointed tool.
- ② Pull the Slider knob 2 out upward.
- ③ Pull the Knob out upward.
- ④ Pull the Stopper out horizontally.

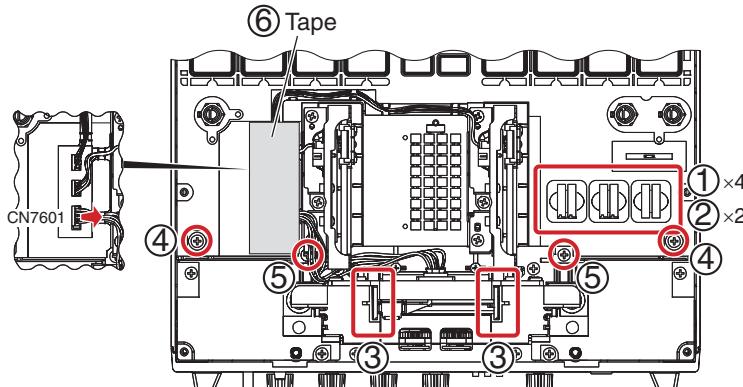
-Reassembly-

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

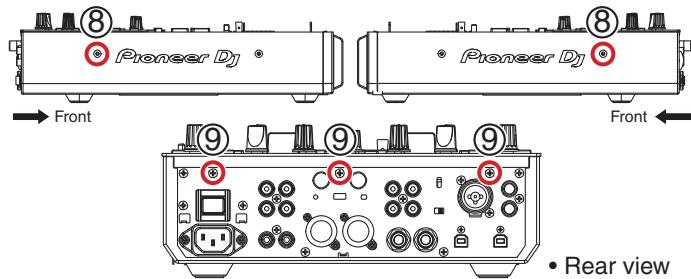


[1-2] Control panel Section

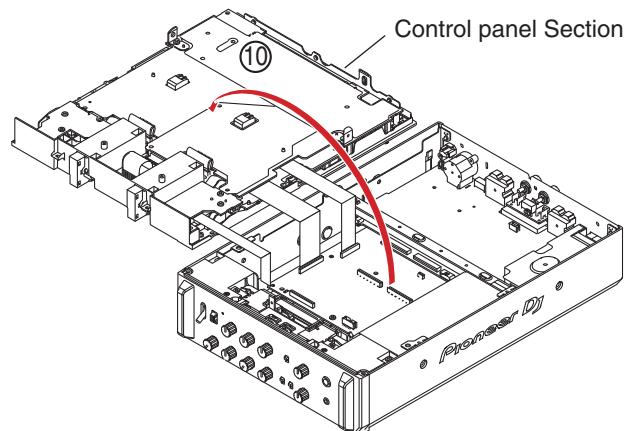
- E (1) Remove the 4 Fader Bumpers A.
(for prevention of loss)
- (2) Remove the 2 Fader Bumpers B.
(for prevention of loss)
- (3) Remove the 2 Fader Bumpers C.
(for prevention of loss)
- (4) Remove the 2 screws.
(BBZ30P060FTC)
- (5) Remove the 2 screws.
(BPZ30P080FNI)
- (6) Remove the Tape.
- (7) Disconnect the 1 connector.
(CN7601)



(8) Remove the 2 screws
(IBZ30P080FTB)
(9) Remove the 3 screws
(BSZ30P060FTB)



(10) Remove the Control panel Section.

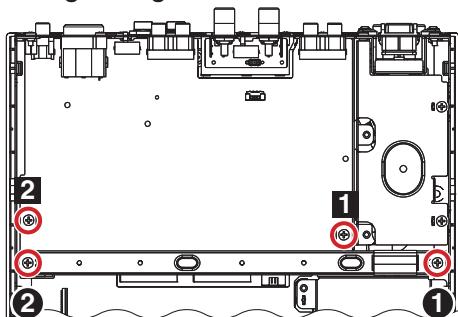


[2] Chassis Section (1/2)

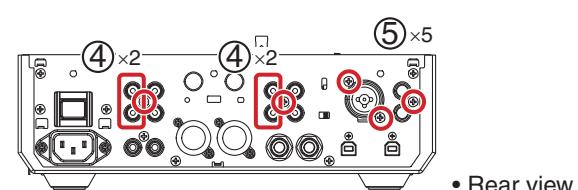
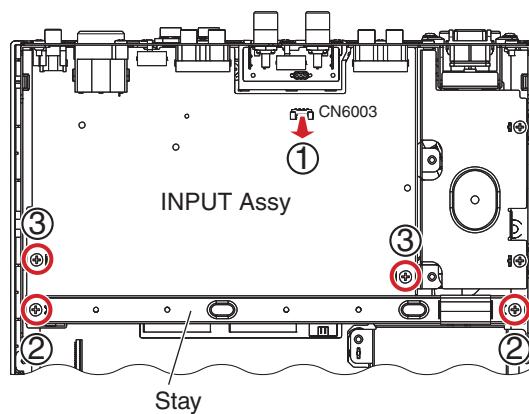
[2-1] INPUT Assy

(1) Disconnect the 1 jumper wire.
(CN6003)
(2) Remove the Stay, by removing the 2 screws.
(BBZ30P060FTC)
(3) Remove the 2 screws.
(BBZ30P060FTC)

Screw tightening order



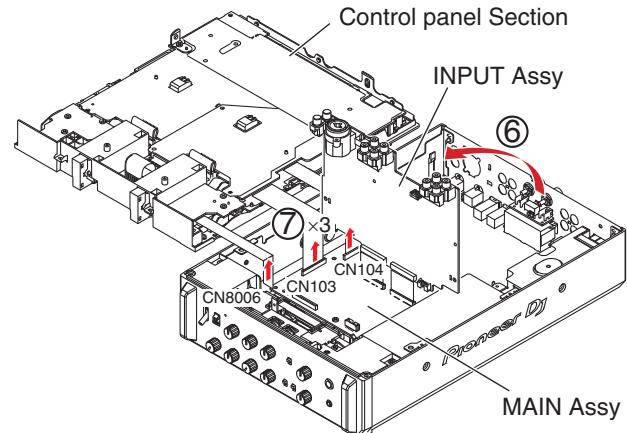
(4) Remove the 4 Plugs/Pin.
(5) Remove the 5 screws.
(BPZ30P080FTB)



A (6) Lift up the INPUT Assy to a front direction.

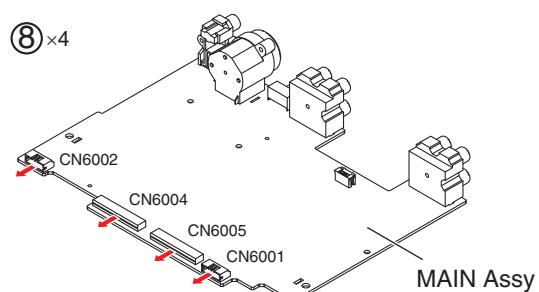


Diagnosis



(7) Disconnect the 3 flexible cables.
(CN103, 104, 8006)

B



(8) Disconnect the 2 flexible cables and 2 connectors.
(CN6001, 6002, 6004, 6005)

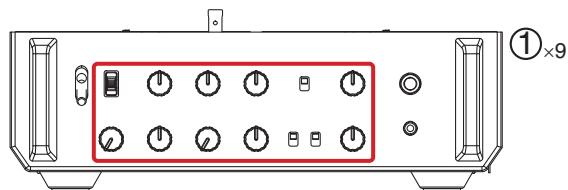
C



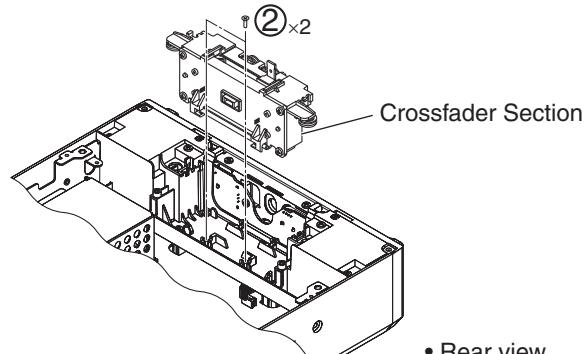
[3] Front Section

D [3-1] Crossfader Section

(1) Remove the 9 knobs.



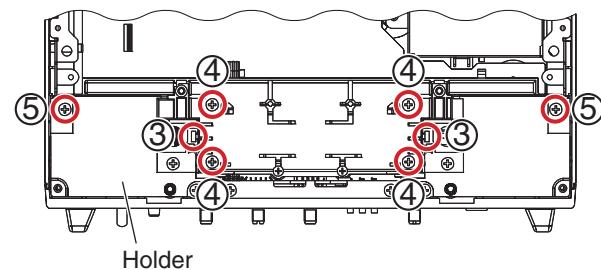
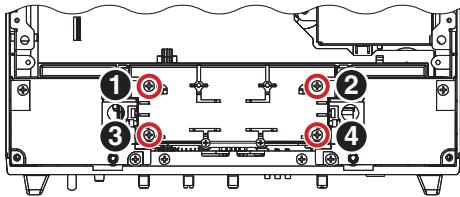
E (2) Remove the Crossfader Section, by removing the 2 screws.
(CPZ26P080FTC)



• Rear view

- (3) Remove the 2 Cushions.
(for prevention of loss)
- (4) Remove the 4 screws.
(BPZ30P080FNI)
- (5) Remove the Holder, by removing the 2 screws.
(BBZ30P060FTC)

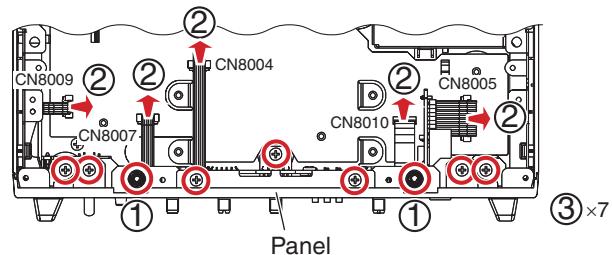
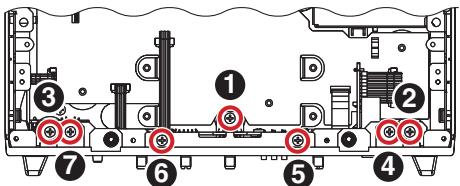
Screw tightening order



[3-2] Panel Section

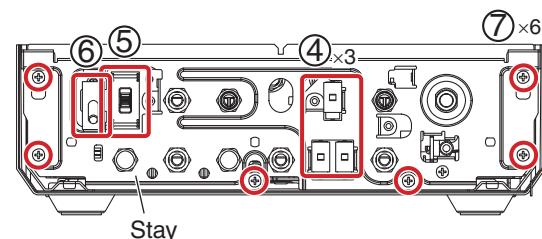
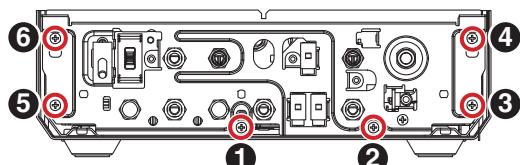
- (1) Remove the 2 Springs.
(for prevention of loss)
- (2) Disconnect the 4 flexible cables and 4 jumper wires.
(CN8004, 8005, 8007, 8009, 8010)
- (3) Remove the Panel, by removing the 7 screws.
(BSZ30P060FTB)

Screw tightening order



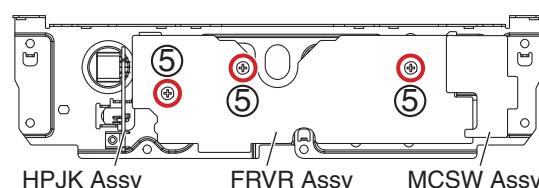
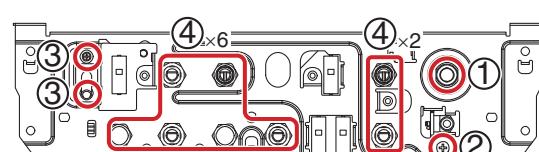
- (4) Remove the 3 Slide SW packings (B).
- (5) Remove the SW packing.
- (6) Remove the Cap/MIC.
- (7) Remove the Stay with PC board, by removing the 6 screws.
(BBZ30P060FTC)

Screw tightening order



[3-3] MCSW, FRVR and HPJK Assemblies

- (1) Remove the 1 nut.
(DBN1018)
- (2) Remove the HPJK Assy, by removing the 1 screw.
(BBZ30P060FTC)
- (3) Remove the MCSW Assy, by removing the 2 screws.
(AMZ26P040FTC)
- (4) Remove the 8 nuts
(NK90FTC)
- (5) Remove the FRVR Assy, by removing the 3 screws.
(BBZ30P060FTC)



• Rear view F

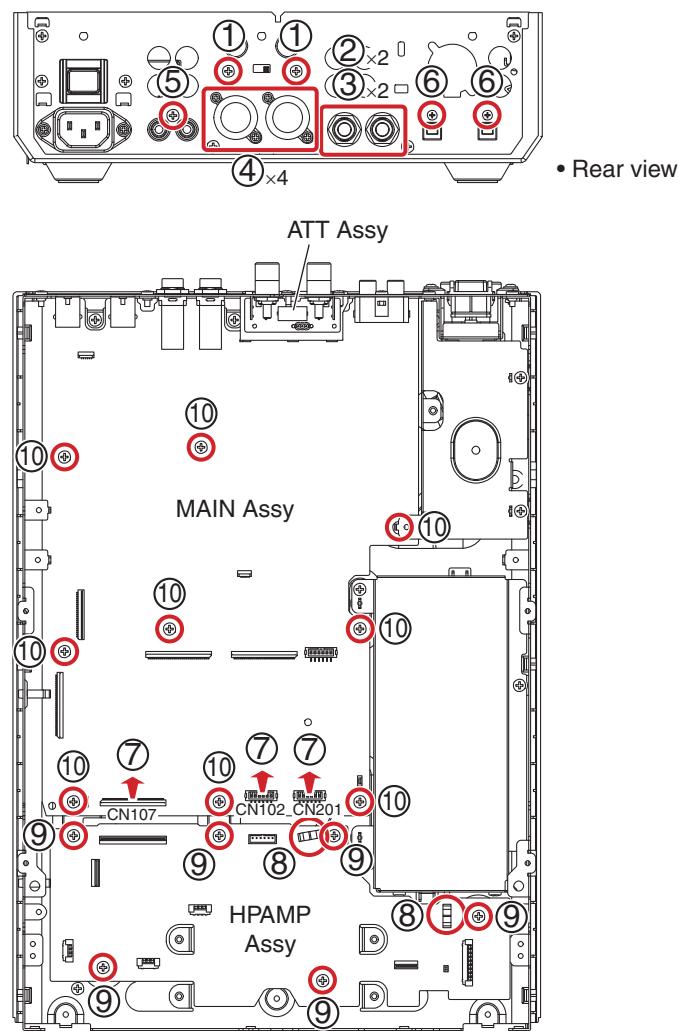
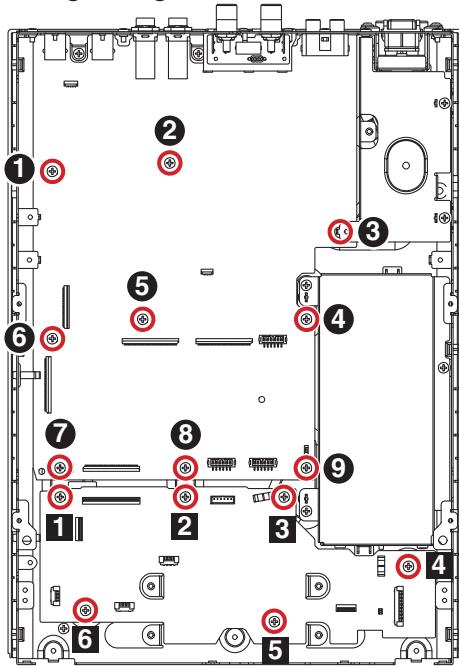


A [4] Chassis Section (2/2)

[4-1] ATT, MAIN and HPAMP Assemblies

- (1) Remove the ATT Assy, by removing the 2 screws.
(BBZ30P060FTB)
- (2) Remove the 2 nuts.
(NKX2FNI)
- (3) Remove the 2 washers.
(DEC2920)
- (4) Remove the 4 screws.
(PPZ30P080FTB)
- (5) Remove the 1 screw.
(BPZ30P080FTB)
- (6) Remove the 2 screws.
(DBA1340)
- (7) Disconnect the 1 flexible cable and 2 connectors.
(CN102, 107, 201)
- (8) Release the jumper wire from 2 clampers.
- (9) Remove the HPAMP Assy, by removing the 6 screws.
(BPZ30P080FNI)
- (10) Remove the MAIN Assy, by removing the 9 screws.
(BPZ30P080FNI)

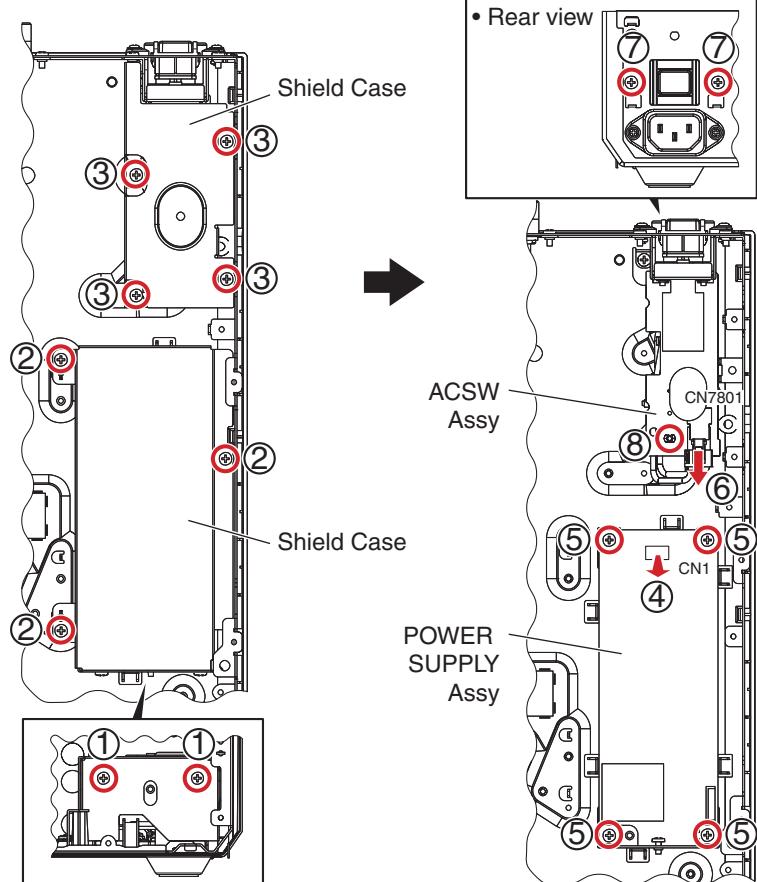
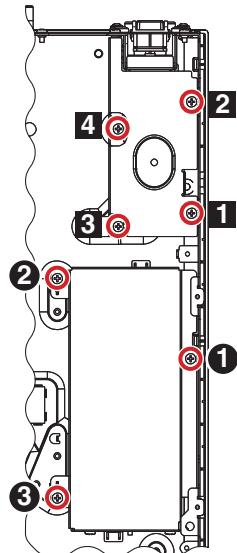
Screw tightening order



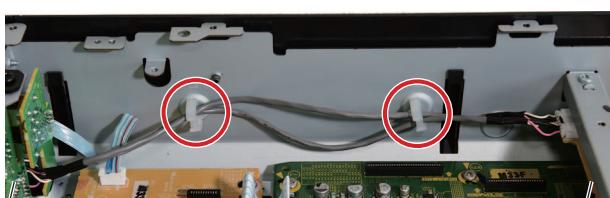
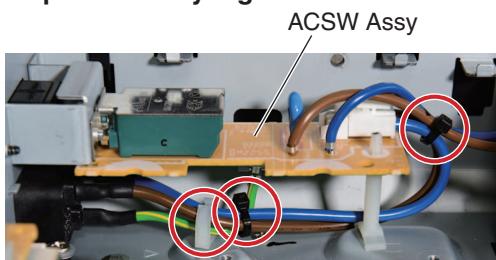
[4-2] POWER SUPPLY and ACSW Assemblies

- (1) Remove the 2 screws.
(BBZ30P060FTC)
- (2) Remove the Shield case, by removing the 3 screws.
(BBZ30P060FTC)
- (3) Remove the Shield case, by removing the 4 screws.
(BBZ30P060FTC)
- (4) Disconnect the 1 connector.
(CN1)
- (5) Remove the POWER SUPPLY Assy, by removing the 4 screws.
(BPZ30P100FTB)
- (6) Disconnect the 1 connector.
(CN7801)
- (7) Remove the 2 screws.
(BBZ30P060FTB)
- (8) Remove the ACSW Assy from the PCB spacer.

Screw tightening order



Jumper wires styling



FRVR Assy



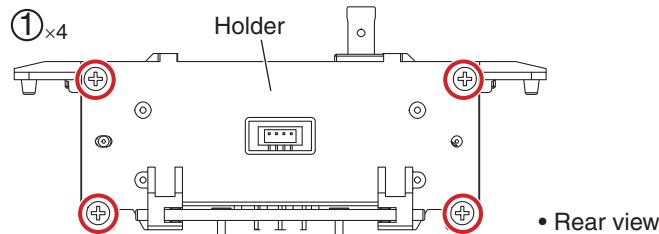
POWER SUPPLY Assy
MAIN Assy
HPAMP Assy

INPUT Assy

A [5] Crossfader Section

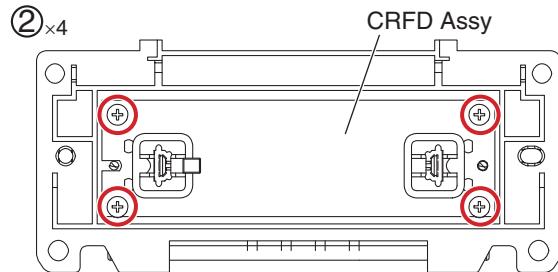
[5-1] CRFD Assy

(1) Remove the Holder, by removing the 4 screws.
(BPZ30P080FNI)



B

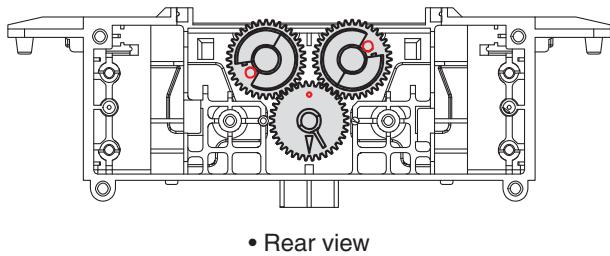
(2) Remove the CRFD Assy, by removing the 4 screws.
(BPZ20P050FTC)



C

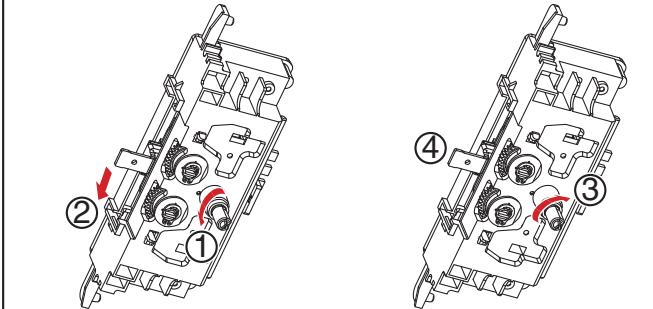
Positioning of the gears during reassembly

During reassembly, position the gears so that the engraved circle on each gear (indicated in red in the figure below) is located as shown in the figure below.



Confirmation of operations after reassembly

① Turn the knob counterclockwise.
② Make sure that the slider can be run downward (unrestrained).
③ Turn the knob clockwise.
④ Make sure that the slider does not run downward by itself but can be moved by hand.



Locations of grease application

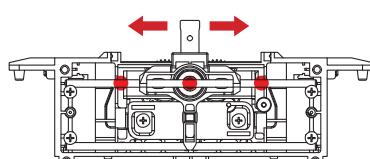
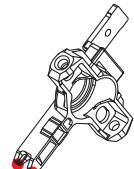
E



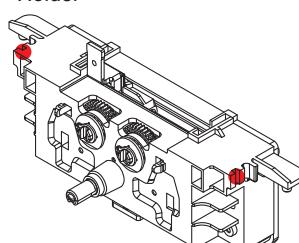
• Slider

• Shaft (upper)

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

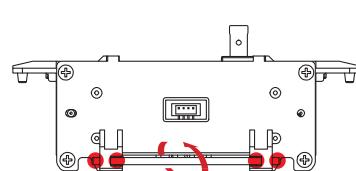


• Holder



• Guide bar

After grease application, rotate the guide bar in order to fully spread the grease.

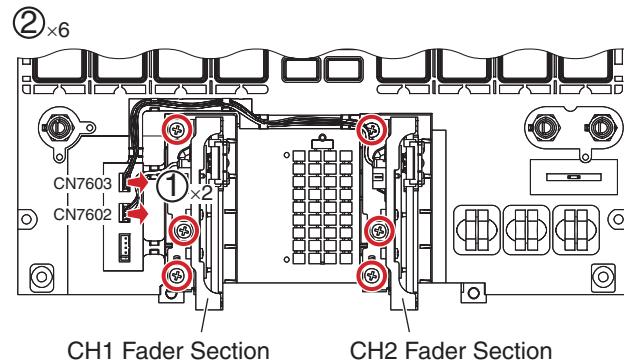


F

[6] CH Fader Section

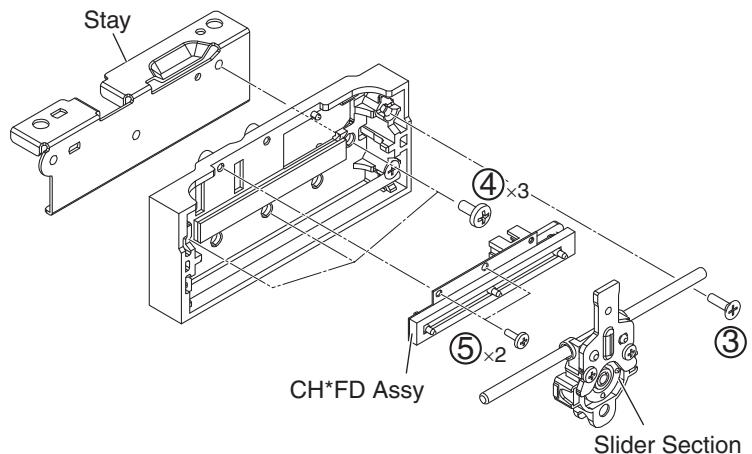
[6-1] CH1FD and CH2FD Asssemblies

- (1) Disconnect the 2 connectors.
(CN7602, 7603)
- (2) Remove the 2 CH fader Sectios, by removing the 6 screws.
(BPZ30P080FNI)

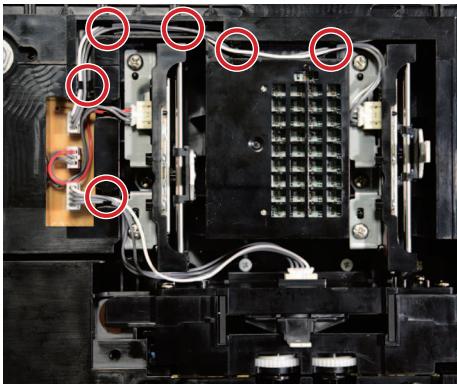


CH1 Fader Section CH2 Fader Section

- (3) Remove the Slider Section, by removing the 1 screw.
(CPZ26P080FTC)
- (4) Remove the Stay, by removing the 3 screws.
(BBZ30P060FTC)
- (5) Remove the CH*FD Assy, by removing the 2 screws.
(BPZ20P050FTC)



Jumper wires styling



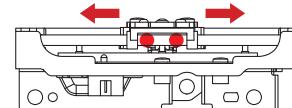
Locations of grease application



• Slider

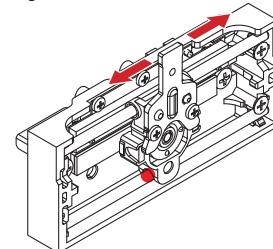
• Guide Bar (upper)

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



• Guide Bar (lower)

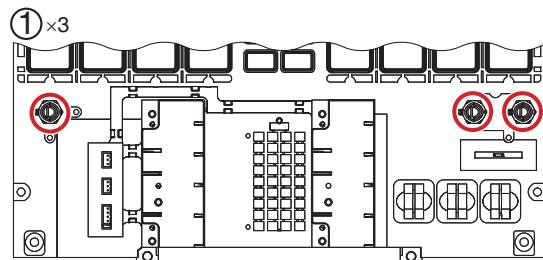
After grease application, move the slider in order to fully spread the grease.



A [7] Control panel Section (2/2)

[7-1] LVMT, SPVR and HPFD Assemblies

(1) Remove the 3 nuts.



B

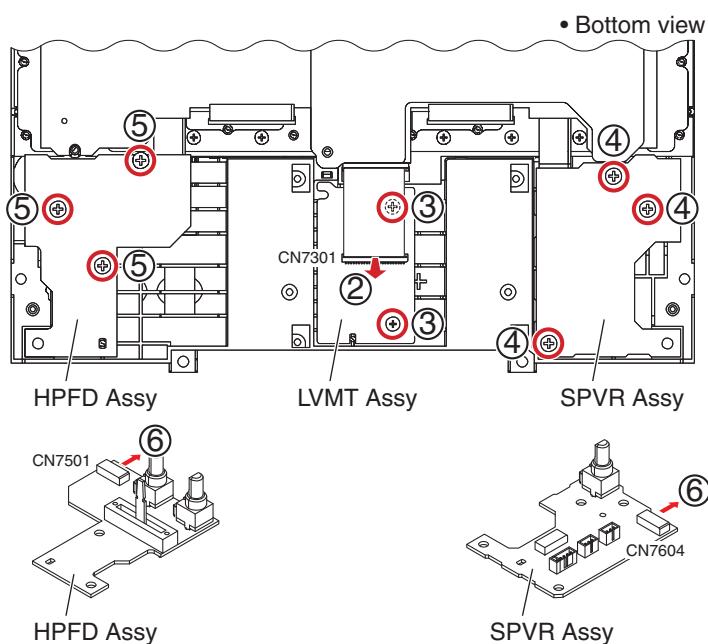
(2) Disconnect the 1 flexible cable.
(CN7301)

(3) Remove the LVMT Assy, by removing the 2 screws.
(BPZ26P080FTC)

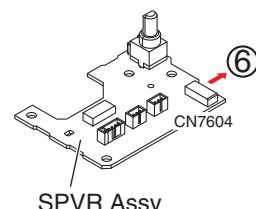
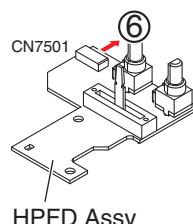
(4) Remove the SPVR Assy, by removing the 3 screws.
(BPZ30P080FNI)

C (5) Remove the HPFD Assy, by removing the 3 screws.
(BPZ30P080FNI)

(6) Disconnect the 2 flexible cables.
(CN7604, 7501)



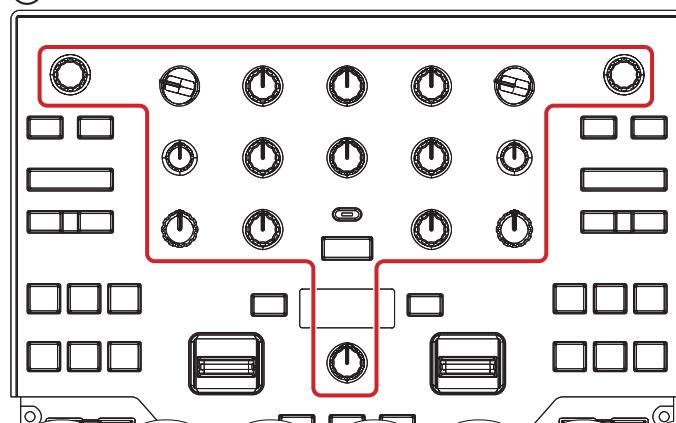
D



[7-2] PNL1B Assy

(1) Remove the all knobs.

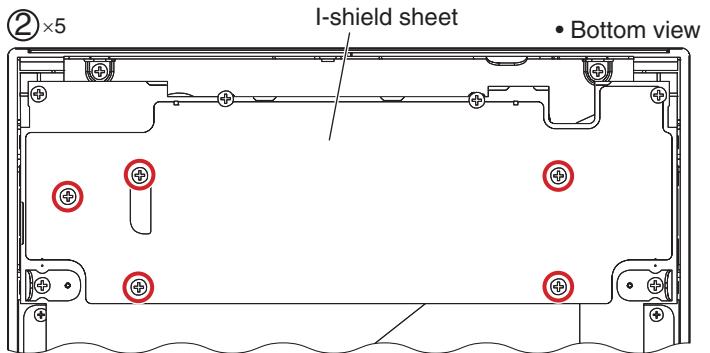
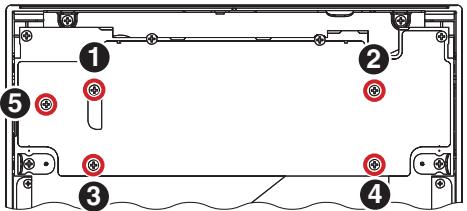
① x17



F

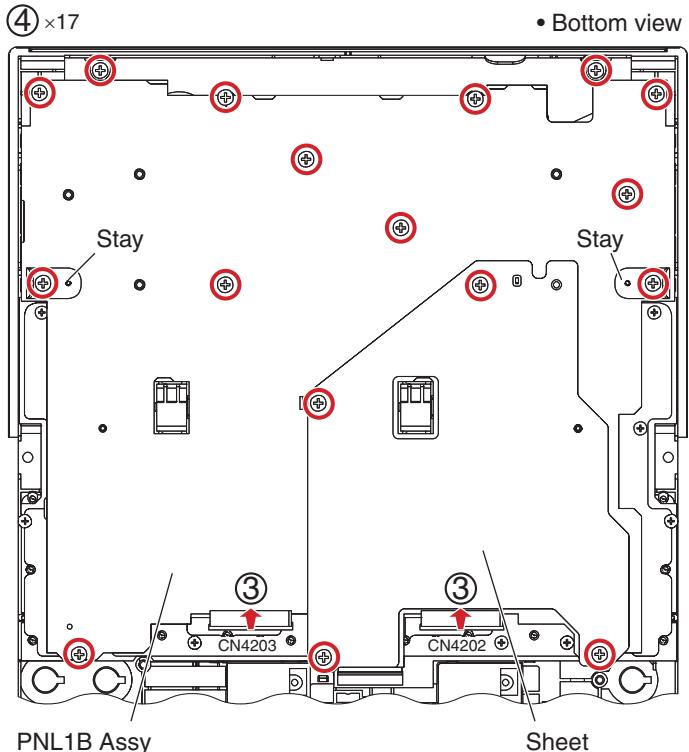
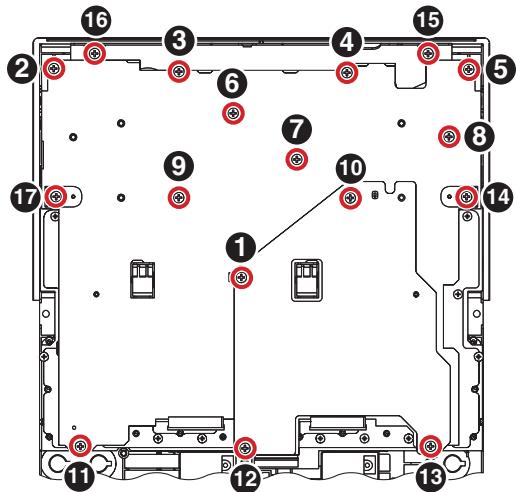
(2) Remove the I-shield sheet, by removing the 5 screws.
(BPZ30P080FNI)

Screw tightening order

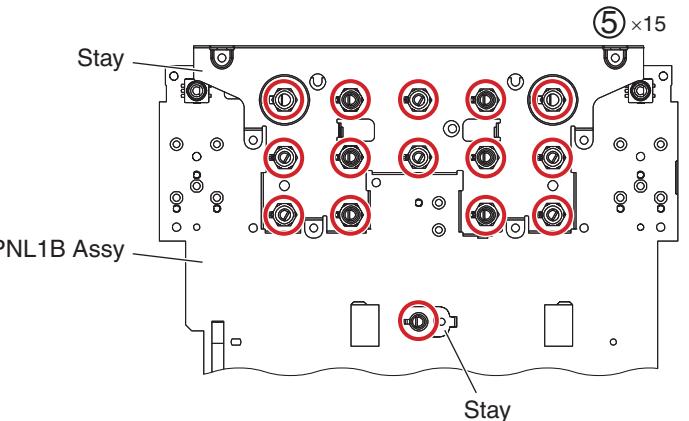


(3) Disconnect the 2 flexible cables.
(CN4202, 4203)
(4) Remove the PNL1B Assy with the Sheet, Stays, by removing the 17 screws.
(BPZ30P080FNI)

Screw tightening order



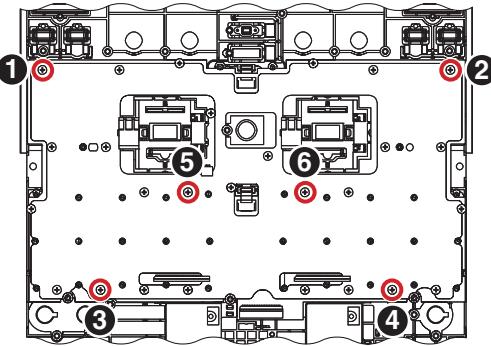
(5) Remove the 2 Stays, by removing the 15 nuts.



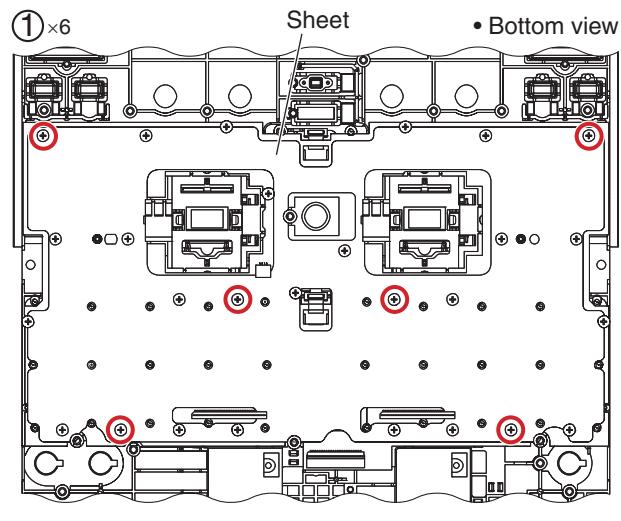
A [7-3] PADB Assy

(1) Remove the Sheet, by removing the 6 screws.
(BPZ26P080FTC)

Screw tightening order



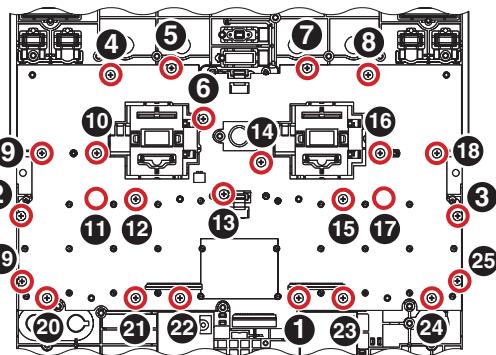
B



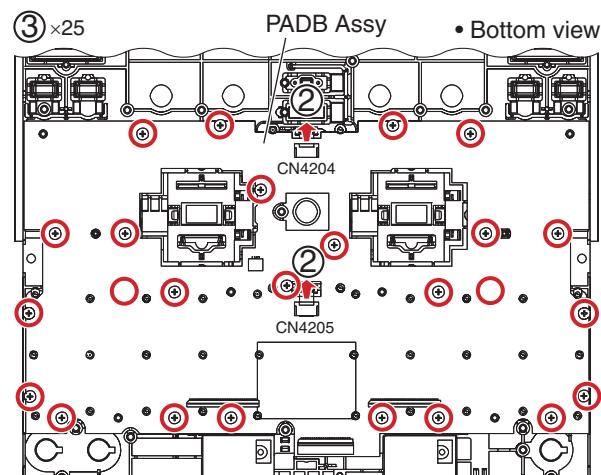
(2) Disconnect the 2 flexible cables.
(CN4204, 4205)

c (3) Remove the PADB Assy, by removing the 25 screws.
(BPZ26P080FTC)

Screw tightening order



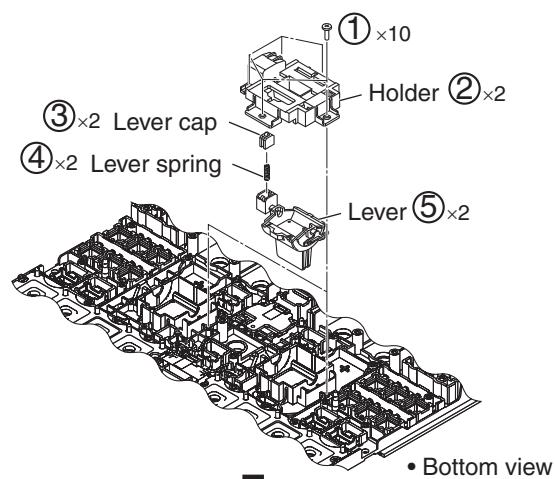
D



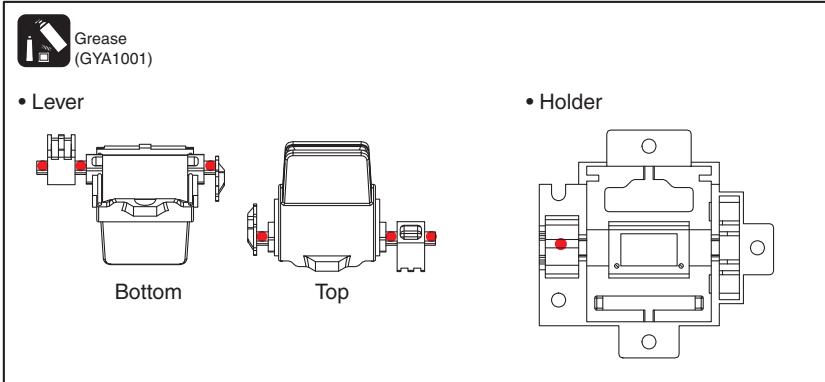
[7-4] EFFECT Lever Section

(1) Remove the 10 screws.
(BPZ26P080FTC)

E (2) Remove the 2 Holders.
(3) Remove the 2 Lever caps.
(4) Remove the 2 Lever springs.
(5) Remove the 2 Levers.

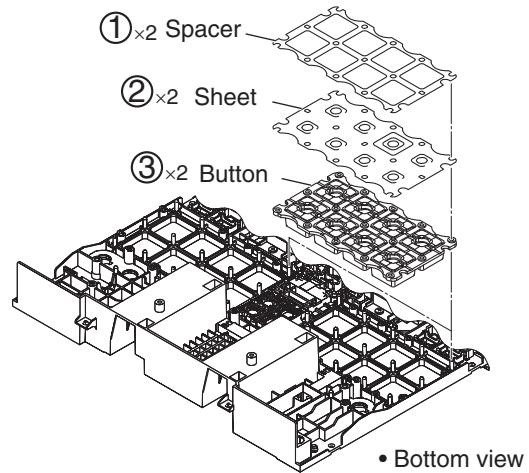


■ Locations of grease application



[7-5] OLED Section

- (1) Remove the 2 Spacers.
- (2) Remove the 2 Sheets.
- (3) Remove the 2 Buttons.



• Upper

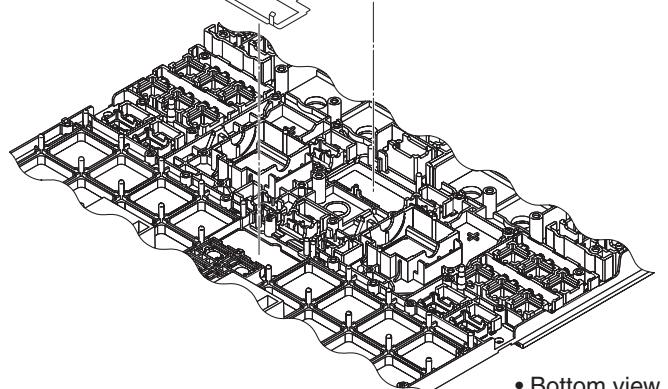
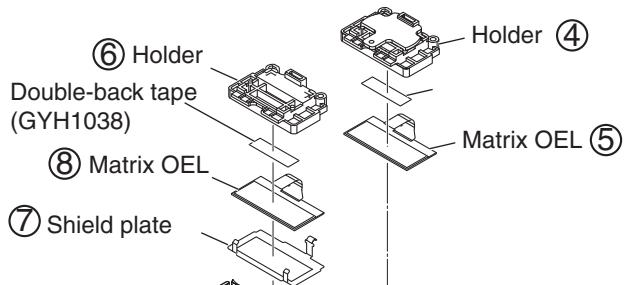
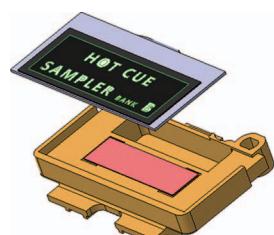
- (4) Remove the Holder.
- (5) Remove the Matrix OEL.

• Lower

- (6) Remove the Holder.
- (7) Remove the Shield plate.
- (8) Remove the Matrix OEL.

Caution:

If you peel off the Matrix OEL that was attached to the Holder with the aid of double-back tape (10 mm in width x 35 mm in length), strong stress will be imparted to the Matrix OEL and may damage it. Do not reuse an Matrix OEL that has been detached even once. Replace with a new Matrix OEL.



• Bottom view

8. EACH SETTING AND ADJUSTMENT

8.1 NECESSARY ITEMS TO BE NOTED

A After repairing, be sure to check the version of the firmware, and if it is not the latest one, update to the latest version. Perform the each item when the following parts are replaced.

- IC602, MAINAssy 
 - Confirmation of the version of the firmware
 - Updating to the latest version of the firmware
 - Factory reset
(Be changed user setting to condition before the repair when be possible)
 - Crossfader calibration *1

- Crossfader section component part 
 - Crossfader calibration *1

- B • IC5101, PNL1B Assy,
IC4301, PADB Assy 
 - Confirmation of the version of the firmware
 - Updating to the latest version of the firmware

*1 :

Be sure to perform calibration, referring to "2 Crossfader Calibration Mode" in "6.1 TEST MODE."

C

D

E

F

8.2 UPDATING OF THE FIRMWARE

A. How to check the current Firmware Version of DJM-S9

1. Connect DJM-S9 to your computer using a USB cable.
2. Launch the Settings Utility.

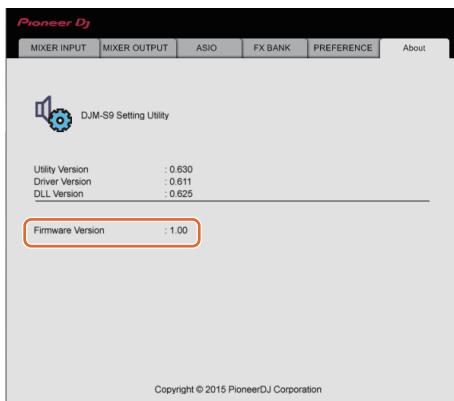
For Windows:

[Start] menu > [All Programs] > [Pioneer] -> [DJM-S9] -> [DJM-S9 Settings Utility]

For Mac OS:

[Application] > [Pioneer] > [DJM-S9] > [DJM-S9 Settings Utility]

3. Check the Firmware Version in the Settings Utility
The firmware version is displayed in the [About] tab.



B

C

B. Download and unzip the update file

1. Download the update file.

For Windows:

Download and save the [DJM-S9_vxxx_Win.zip] file in a random directory like Desktop.

For Mac OS:

Download and save the [DJM-S9_vxxx_Mac.zip] file in a random directory like Desktop.

D

2. Unzip the downloaded file.

For Windows:

Unzip the zip file to find the folder named [DJM-S9_vxxx_Win] and the following files in it.

1. [2CH_MIXER_UP.upd]
2. [DJM-S9Updater.exe]
3. pcupdate.dll

For Mac OS:

Double click to unzip the [DJM-S9_vxxx_Mac] folder.

1. [DJM-S9Update.app]

E

xxx is numerical characters of the new firmware version.

Depending on your computer settings, the extension such as .exe or .app may not be displayed.

C. Preparation for updating DJM-S9

1. Connect DJM-S9 and a computer.

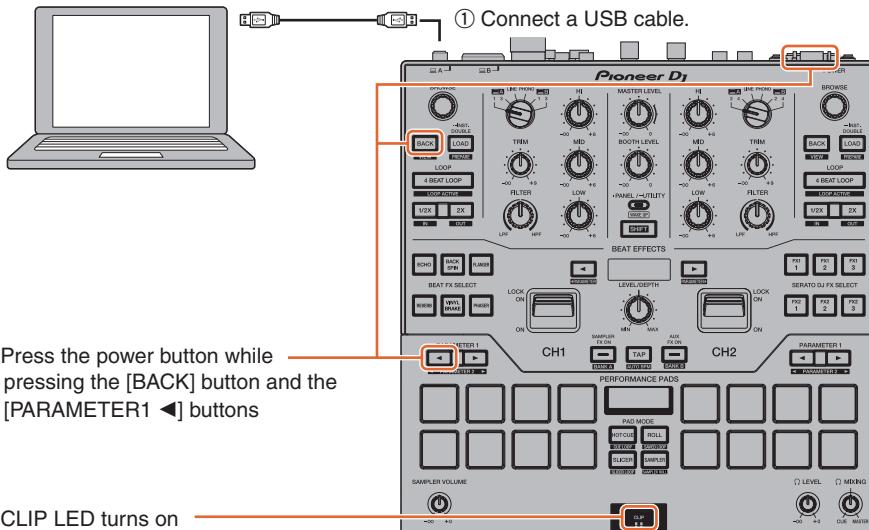
Connect DJM-S9 to your computer using a USB cable.
(Connect the USB cable to (USB-A) port.)

F

2. Activate the update mode.

Press the power button while pressing the [BACK] button and the [PARAMETER1 LEFT] buttons on the left deck.
Once the update mode is activated, the CLIP LED at the top of the MASTER level meter flashes.

A



B

D. Updating the firmware using a computer

1. Updating procedures.

Before updating, close all the applications running on the computer.

C

① Activate the update program.

For Windows:

Double click [DJM-S9Updater.exe] to activate the update file.

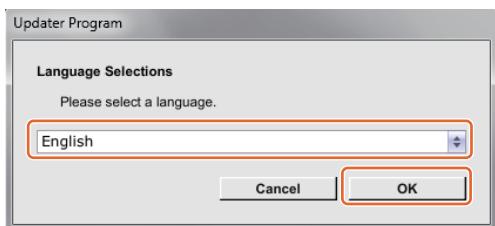
D

For Mac OS:

Double click [DJM-S9Update.app] to activate the update file.

② Select a language.

Select the language you want to use and click on [OK].



Please refer to “Tips: When [Your DJM-S9 is not connected] is shown during updating the firmware” in a later section if the same message is popped up after clicking “OK”.

E

③ Check the firmware version before updating.

After ensuring that the firmware version is x.xx, click on the [Start] button.

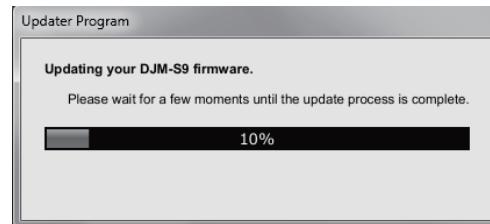
Ensure that the power cable and the USB cable are securely connected to DJM-S9 during the update.

Please make sure to use an AC adaptor to power your laptop during updating the firmware.



The updating process starts.

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



④ Complete the updating process.

When the firmware update process is complete and the message below appears, click the [OK] button. When all the LEDs of the MASTER level meter on DJM-S9 are lit, the firmware update is completed.



⑤ Reboot DJM-S9.

Turn off the power of DJM-S9 and then turn it on again.

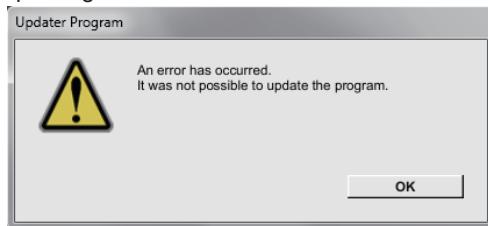
F

E. Check the firmware version

Check the firmware version of DJM-S9 as described in [A. How to check the current Firmware Version of DJM-S9]. The firmware update is successfully completed when you find the version you wanted in the Settings Utility.

Tips: How to cope with abnormal termination:

If you fail to update and the following message appears, turn off the power of DJM-S9 and start from the beginning of the above Updating Procedures.



Tips: When [Your DJM-S9 is not connected] is shown during updating the firmware

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



- Is the USB cable connected to a USB-A port?

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

- When the above message appears even if the cable is connected to a USB-A port, please follow the steps below.

1) Uninstall the driver software of DJM-S9. (How to uninstall the driver software:)

For Windows users:

Navigate to Start -> Control panel -> Programs. Then, select “Pioneer DJM -S9 Driver” and click “Uninstall”.

For MacOS users:

Double click the driver software and then double click [DJM-S9 Uninstaller.app].

Follow the instructions in your computer after this.

The latest driver software is available from the following link.

<http://www.pioneerdj.com/en/support/>

2) Update the firmware again from the beginning.

3) After completing the firmware update, install the driver software again.

Please see the Operating Instructions for how to install the driver software.

[Reference information]

This updater has been verified to operate on the operating systems below:

Windows: Windows 7/Windows 8/Windows 8.1

MacOS: OS X 10.8 / 10.9 / 10.10

Approximately 2 minutes is required for updating.

The images shown in this Guide may not be the same as the current ones.

8.3 USER SETTABLE ITEMS

A 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	OLED display	Setting Value	Setting Value (The factory default settings are indicated in bold.)	Part Name	Content to be Stored
Auto standby function setting	AUTO STANDBY	OFF / ON	ON	IC602 (MAIN Assy)	Utility setting
Talke over mode setting	MIC TALKOVER	NORMAL / ADVANCED	ADVANCED		
Talke over level setting	TALKOVER LEVEL	-6 dB / -12 dB / -18 dB / -24 dB	-18 dB		
MIC low cut setting	MIC LOW CUT	OFF/ON	ON		
MIC output setting to BOOTH monitor	MIC TO BOOTH	OFF/ON	ON		
MIC limiter setting	MIC LIMITTER	OFF/ON	ON		
MASTER limiter setting	MASTER LIMITTER	OFF/ON	ON		
Attenuator level setting of BOOTH monitor	BOOTH ATT.	0 dB / -6 dB / -12 dB	0 dB		
STEREO / MONO switch of MASTER output	MASTER OUT	STEREO / MONO	STEREO		
STEREO / MONO switch of BOOTH monitor	BOOTH OUT	STEREO / MONO	STEREO		
Brightness adjustment of LED / OLED	LED BRIGHTNESS	1 / 2 / 3	1		
Reset factory shipping state	FACTORY RESET	cancel / reset			

Each of the above items can be set in Utilities modes.

To enter Utilities mode, in normal start-up mode press and hold the [PANEL/UTILITY] button more than one second.

C

Sheet for confirmation of the user setting

Auto standby function setting		Talke over mode setting			
OFF	ON	NORMAL	ADVANCED		
Talke over level setting		MIC low cut setting			
-6 dB	-12 dB	-18 dB	-24 dB	OFF	ON
MIC output setting to BOOTH monitor		MIC limiter setting		MASTER limiter setting	
OFF	ON	OFF	ON	OFF	ON
Attenuator level setting of BOOTH monitor		STEREO / MONO switch of MASTER output		STEREO / MONO switch of BOOTH monitor	
-0 dB	-6 dB	-12 dB	STEREO	MONO	STEREO
Brightness adjustment of LED / OLED					
1	2	3			

E

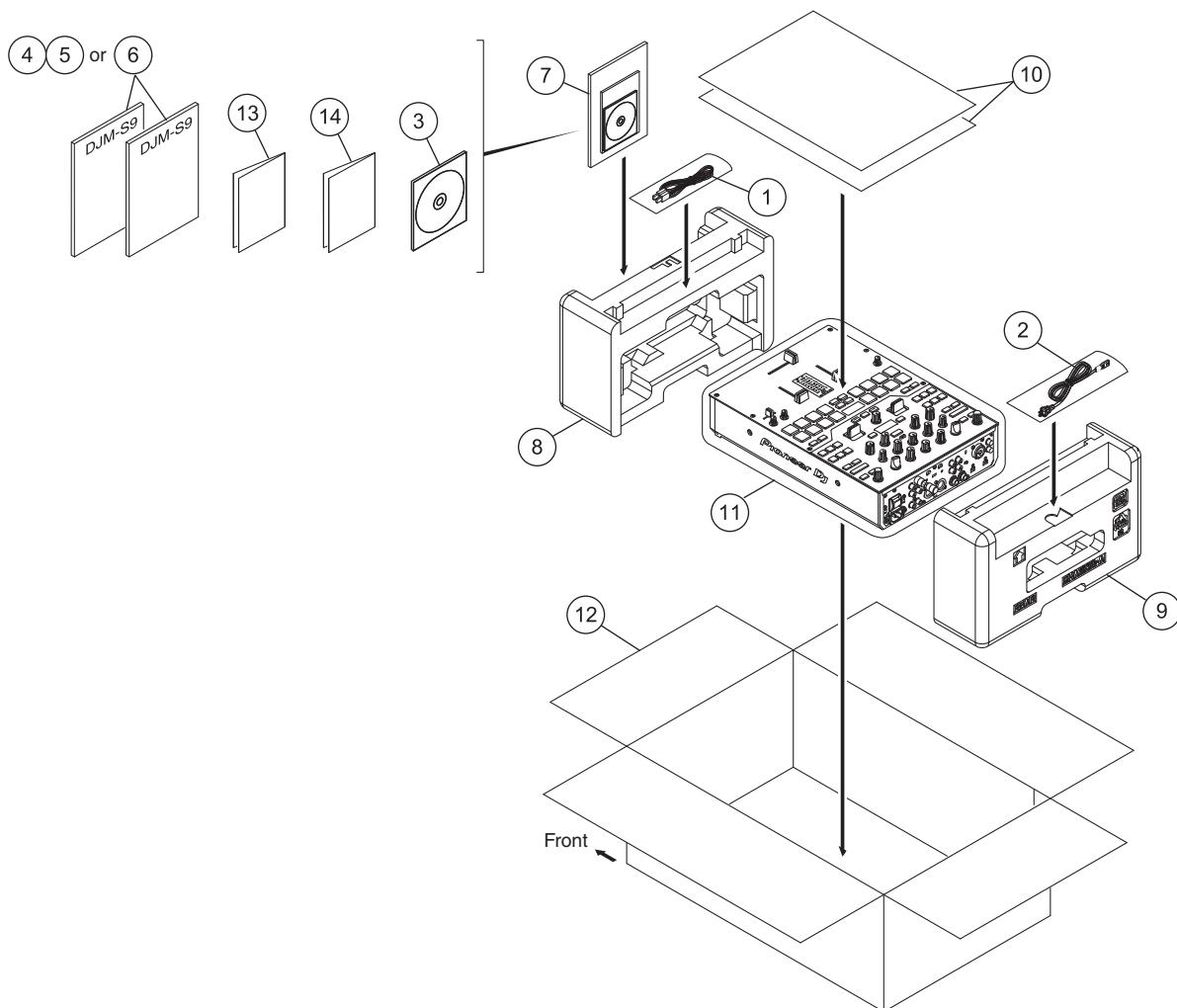
F

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

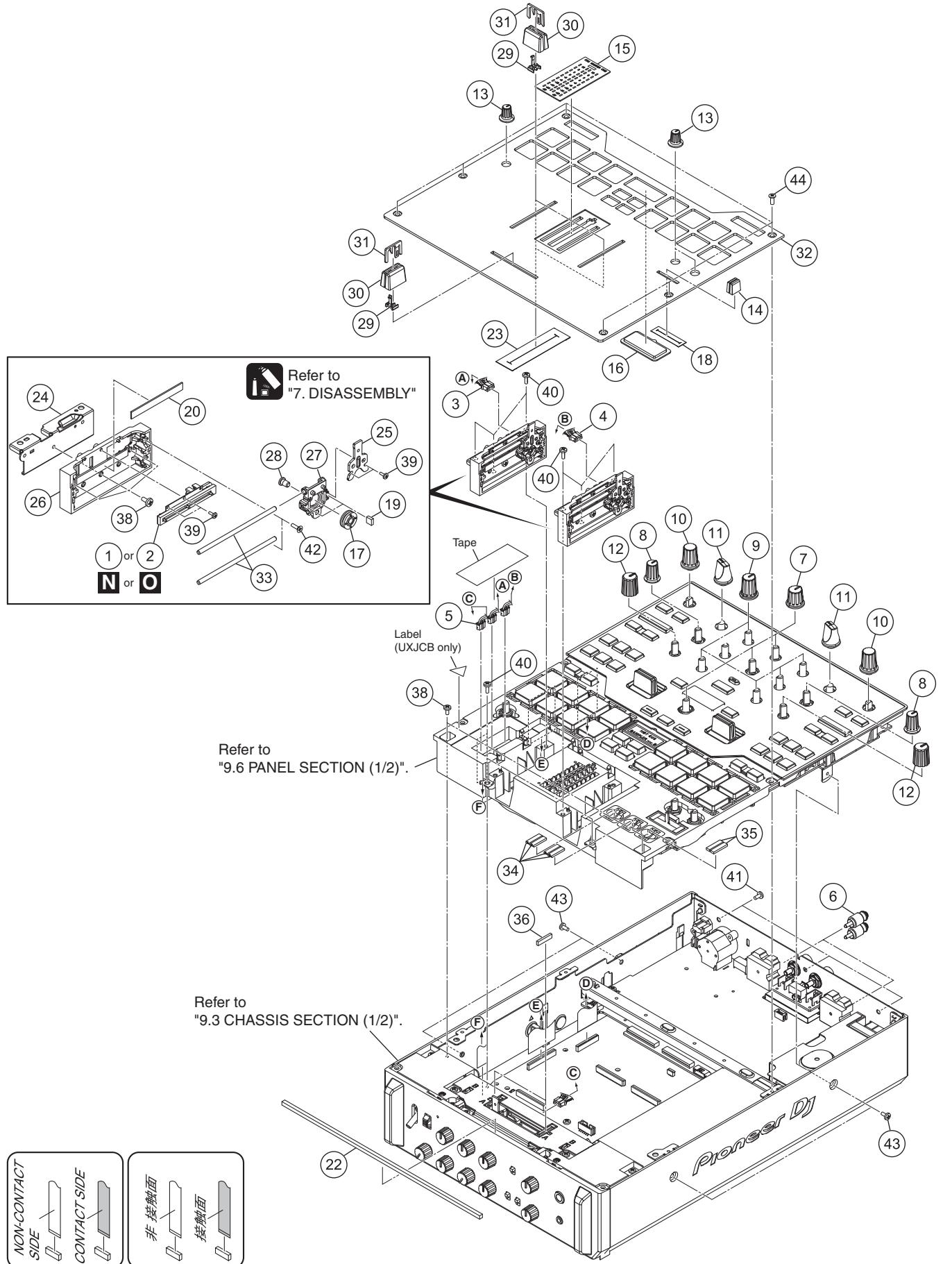
	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
A	1	USB Cable	DDE1128
	2	Power Cord	See Contrast table (2)
	3	CD ROM Assy/DVS	DXX2734
	4	Operating Instructions (Quick Start Guide)	See Contrast table (2)
B	5	Operating Instructions (Quick Start Guide)	See Contrast table (2)
	6	Operating Instructions (Quick Start Guide)	See Contrast table (2)
	7	Polyethylene Bag	AHG7117
C	8	Packing Pad	DHA1929
	9	Packing Pad	DHA1930
	10	Packing Board	DHB1002
	11	Sheet	RHX1006
	12	Packing Case	See Contrast table (2)
D	13	Leaflet/FPC	DRM1393
	14	Warranty Card	See Contrast table (2)

(2) CONTRAST TABLE

DJM-S9/LSYXJ, DJM-S9/UXJCB, DJM-S9-N/LSYXJ and DJM-S9-N/UXJCB are constructed the same except for the following:

Mark	No.	Symbol and Description	DJM-S9 /LSYXJ	DJM-S9 /UXJCB	DJM-S9-N /LSYXJ	DJM-S9-N /UXJCB
D	2	Power Cord	ADG1244	DDG1108	ADG1244	DDG1108
	4	Operating Instructions (Quick Start Guide) (En, Fr, De, It)	DRH1334	Not used	DRH1334	Not used
	5	Operating Instructions (Quick Start Guide) (NI, Es, Pt, Rs)	DRH1335	Not used	DRH1335	Not used
	6	Operating Instructions (Quick Start Guide) (En)	Not used	DRH1336	Not used	DRH1336
	12	Packing Case	DHG3420	DHG3421	DHG3435	DHG3436
NSP	14	Warranty Card	ARY7158	Not used	ARY7158	Not used

9.2 EXTERIOR and CH FADER SECTION



(1) EXTERIOR and CH FADER SECTION PARTS LIST

	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
A	1	CH1FD Assy	DWX3689	26	Holder	DNK6425
	2	CH2FD Assy	DWX3690	27	Slider	DNK6426
	3	Connector Assy	PF03PP2B07	28	Brake	DNK6427
	4	Connector Assy	PF03PP-B17	29	Stopper	DNK6440
	5	Connector Assy	PF04PP-B12	30	Knob	See Contrast table (2)
	6	Plug/Pin	DKM1024	31	Slider Knob 2	See Contrast table (2)
	7	Rotary SW Knob (MA)	DAA1198	32	Panel	See Contrast table (2)
	8	Rotary SW Knob S (C)	DAA1204	33	Guide Bar	VLL1514
	9	Knob/RSW	DAA1305	34	Fader Bumper A	GNK1010
	10	Knob	DAA1344	35	Fader Bumper B	DEC3596
B	11	Knob	DAA1345	36	Fader Bumper C	DEC3605
	12	Knob/CL	See Contrast table (2)	37	.....
	13	Knob	DAA1346	38	Screw	BBZ30P060FTC
	14	Knob	DAC3088	39	Screw	BPZ20P050FTC
	15	Plate	DAH3033	40	Screw	BPZ30P080FNI
NSP	16	Window	DAH3034	41	Screw	BSZ30P060FTB
	17	Damper	DEB2032	42	Screw	CPZ26P080FTC
	18	Fader Packing (B)	DEC2572	43	Screw	IBZ30P080FTB
	19	Cushion	DEC3356	44	Screw	See Contrast table (2)
C	20	Felt	DEC3603			
	21	.....			
	22	Cushion	DEC3639			
	23	Packing	DEC3642			
	24	Stay	DNF1942			
	25	Lever	DNH3211			

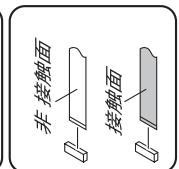
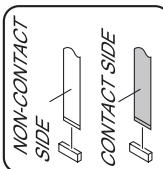
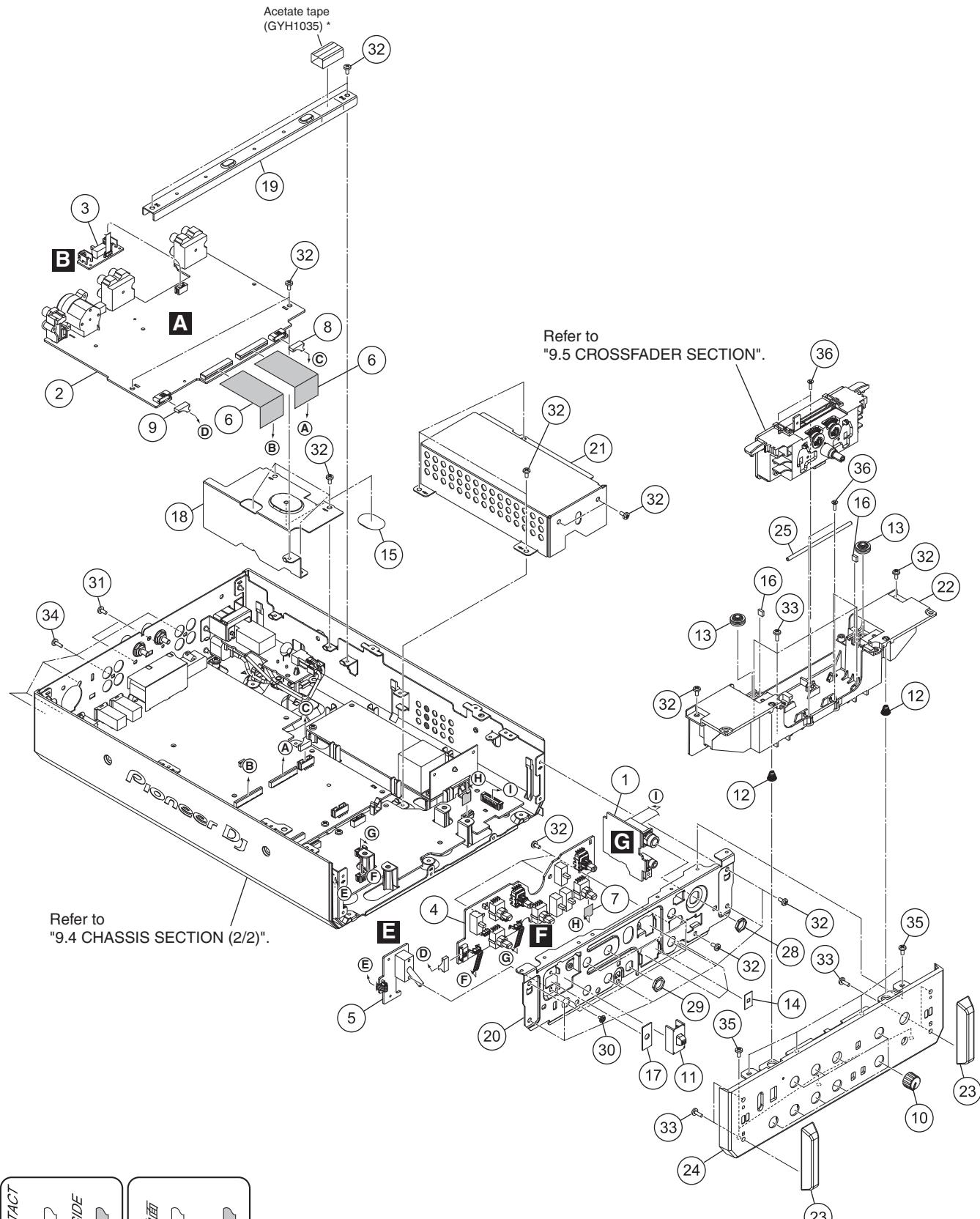
D (2) CONTRAST TABLE

DJM-S9/LSYXJ, DJM-S9/UXJCB, DJM-S9-N/LSYXJ and DJM-S9-N/UXJCB are constructed the same except for the following:

	<u>Mark</u>	<u>No.</u>	<u>Symbol and Description</u>	<u>DJM-S9 /LSYXJ</u>	<u>DJM-S9 /UXJCB</u>	<u>DJM-S9-N /LSYXJ</u>	<u>DJM-S9-N /UXJCB</u>
E	12	Knob/CL		DAA1320	DAA1320	Not used	Not used
	12	Knob		Not used	Not used	DAA1350	DAA1350
	30	Knob		DAC3089	DAC3089	DAC3100	DAC3100
	31	Slider Knob 2		DAC2685	DAC2685	Not used	Not used
	31	Knob		Not used	Not used	DAC3164	DAC3164
	32	Panel		DNB1241	DNB1241	DEA1038	DEA1038
	44	Screw		DBA1446	DBA1446	DBA1447	DBA1447

9.3 CHASSIS SECTION (1/2)

* This acetate tape is for protecting cables.
If it is peeled away, be sure to adhere new acetate tape.



(1) CHASSIS SECTION (1/2) SECTION PARTS LIST

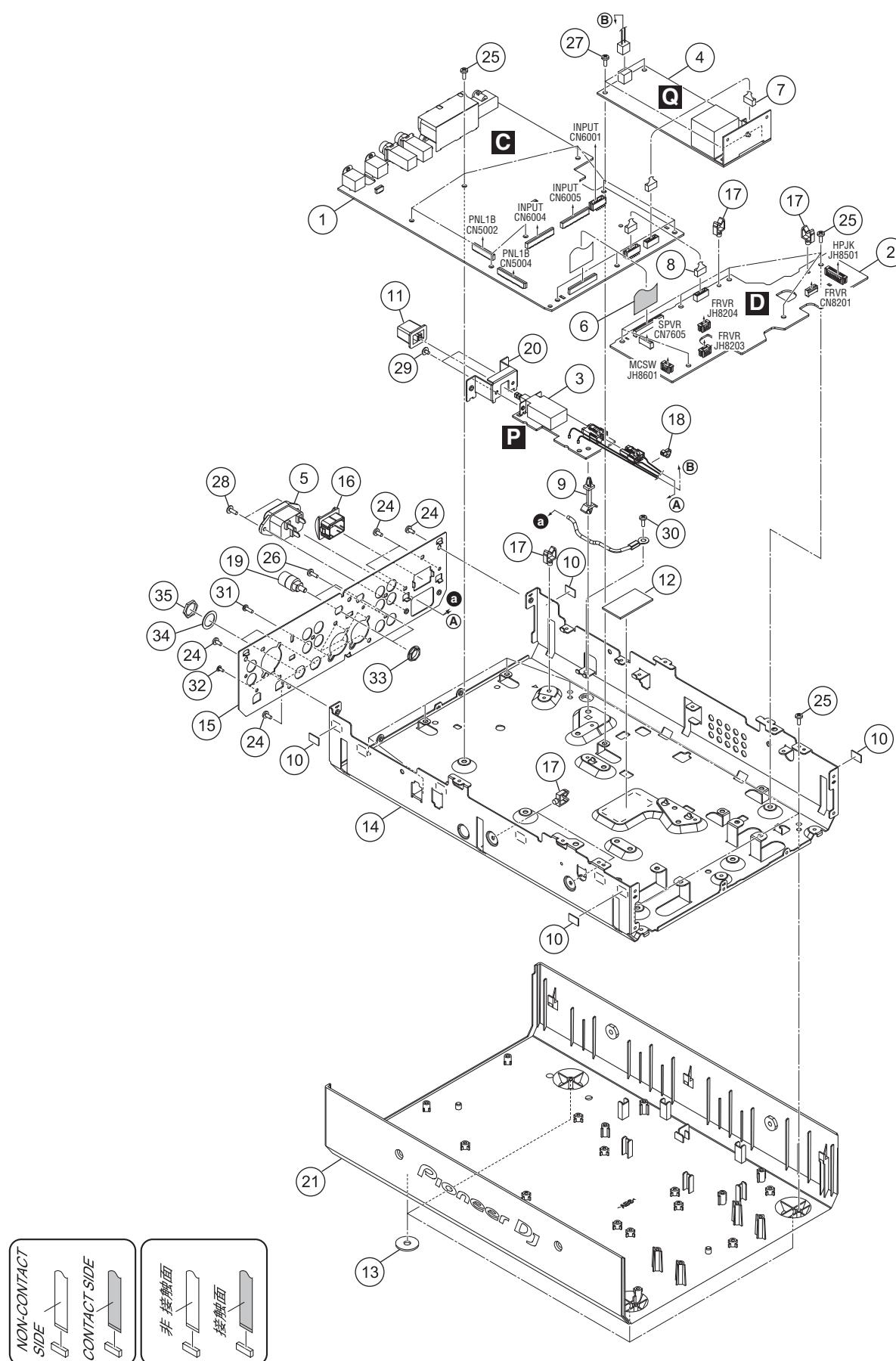
	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
A	1	HPJK Assy	DWX3686	△	21	Shield Case	DNF1946
	2	INPUT Assy	DWX3683		22	Holder	DNK6429
	3	ATT Assy	DWX3682		23	Guard	DNK6441
	4	FRVR Assy	DWX3687		24	Panel	See Contrast table (2)
	5	MCSW Assy	DWX3688		25	Guide Bar	VLL1514
B	6	FFC	DDD1701	△	26	.....
	7	FFC	DDD1702		27	.....
	8	Connector Assy	PF06PP-D05		28	Nut M12	DBN1018
	9	Shielded Conn-Cable	DDA1059		29	Nut	NK90FTC
	10	Knob	DAA1348		30	Screw	AMZ26P040FTC
C	11	Cap/MIC	DAC2773	△	31	Screw	BBZ30P060FTB
	12	Spring	DBH1810		32	Screw	BBZ30P060FTC
	13	Damper/SI	DEB2008		33	Screw	BPZ30P080FNI
	14	Slide SW Packing (B)	DEC2590		34	Screw	BPZ30P080FTB
	15	Insulating Sheet	DEC3629		35	Screw	BSZ30P060FTB
D	16	Cushion	DEC3640	△	36	Screw	CPZ26P080FTC
	17	SW Packing	DED1177				
	18	Shield Case	DNF1943				
	19	Stay	DNF1944				
	20	Stay	DNF1945				

(2) CONTRAST TABLE

DJM-S9/LSYXJ, DJM-S9/UXJCB, DJM-S9-N/LSYXJ and DJM-S9-N/UXJCB are constructed the same except for the following:

Mark	No.	Symbol and Description	DJM-S9 /LSYXJ	DJM-S9 /UXJCB	DJM-S9-N /LSYXJ	DJM-S9-N /UXJCB
△	24	Panel	DXA2291	DXA2291	DXA2298	DXA2298

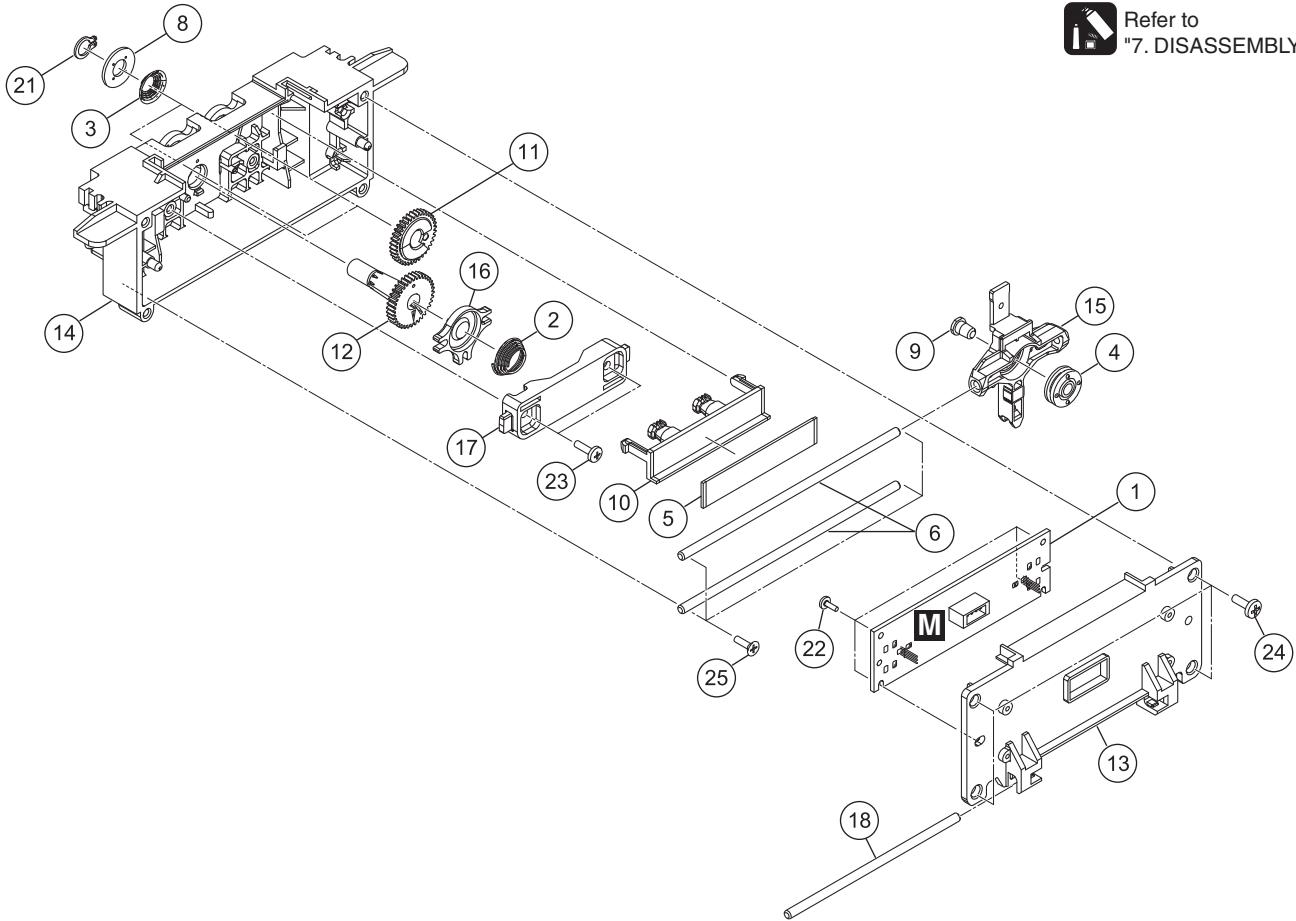
9.4 CHASSIS SECTION (2/2)



CHASSIS SECTION (2/2) SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
A	1 MAIN Assy	DWX3673
	2 HPAMP Assy	DWX3684
	3 ACSW Assy	DWR1547
	4 POWER SUPPLY Assy	DWR1463
	5 AC Inlet	DKP3973
NSP	6 FFC	DDD1701
	7 Crimp Connector	DDC1023
	8 Connector Assy	PF06PP-D05
	9 PCB Spacer	AEC1446
	10 Cushion 11x7	AED7092
B	11 Power Knob	DAC2306
	12 Heat Cond Sheet	DEB2026
	13 Cushion	DEC3177
	14 Chassis	DNA1456
	15 Rear Panel	DNC2118
C	16 Power Knob Guard	DNK4534
	17 Holder	VEC1355
	18 Binder	ZCA-SKB90BK
	19 Earth Terminal	DKE1019
	20 Bracket PSW	DNF1759
D	21 Chassis	DNK6442
	22	
	23	
	24 Screw	BBZ30P060FTB
	25 Screw	BPZ30P080FNI
E	26 Screw	BPZ30P080FTB
	27 Screw	BPZ30P100FTB
	28 Screw	IBZ30P080FTB
	29 Screw	IMZ30P040FTC
	30 Screw	PMH40P080FTC
F	31 Screw	PPZ30P080FTB
	32 Screw (M3*5)	DBA1340
	33 Flange Nut M9	DBN1008
	34 Washer	DEC2920
	35 Nut (M12)	NKX2FNI

9.5 CROSSFAADER SECTION

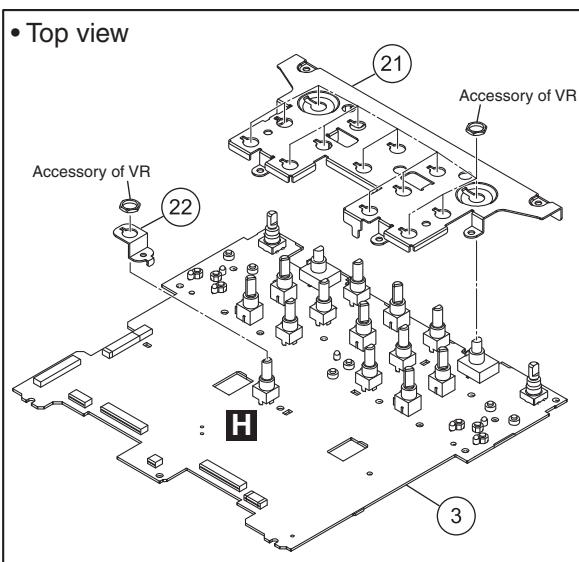


CROSSFAADER SECTION PARTS LIST

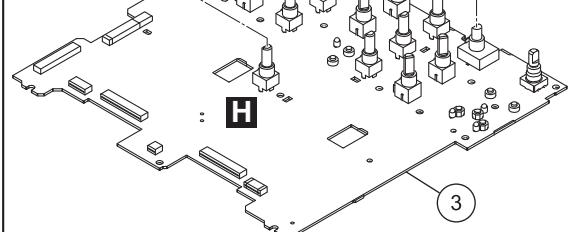
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	CRFD Assy	DWX3678	16	Brake	DNK6445
2	Spring/TRQ	DBH1792	17	Plate	DNK6446
3	Spring	DBH1809	18	Guide Bar	VLL1514
4	Damper	DEB2032	19	.....
5	Felt	DEC3597	20	.....
6	Shaft	DLA2240	21	Washer	YC60FAC
7	.....		22	Screw	BPZ20P050FTC
8	Bush (MA)	DNK5086	23	Screw	BPZ26P080FTC
9	Brake	DNK6427	24	Screw	BPZ30P080FNI
10	Brake	DNK6428	25	Screw	CPZ26P080FTC
11	Gear	DNK6430			
12	Gear	DNK6431			
13	Holder	DNK6432			
14	Holder	DNK6433			
15	Slider	DEA1037			

9.6 PANEL SECTION (1/2)

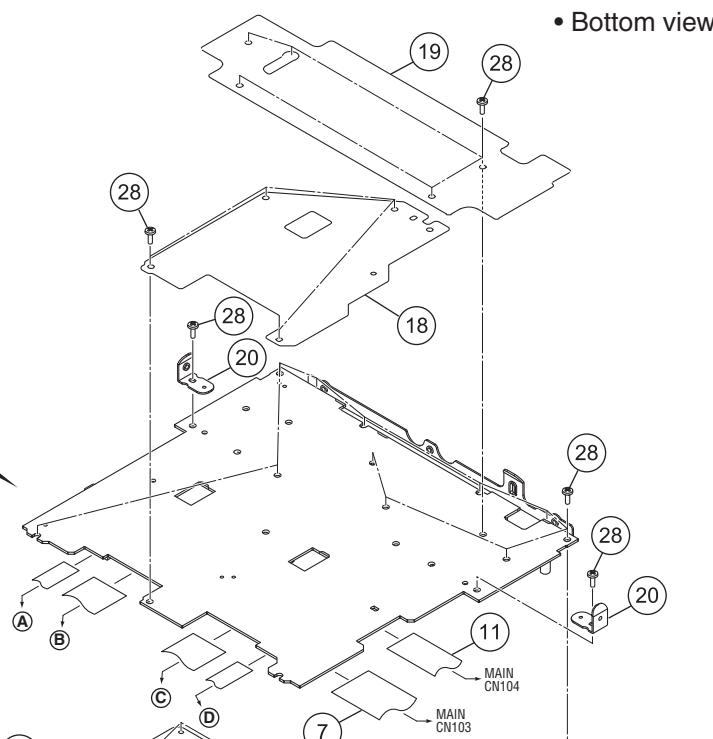
A



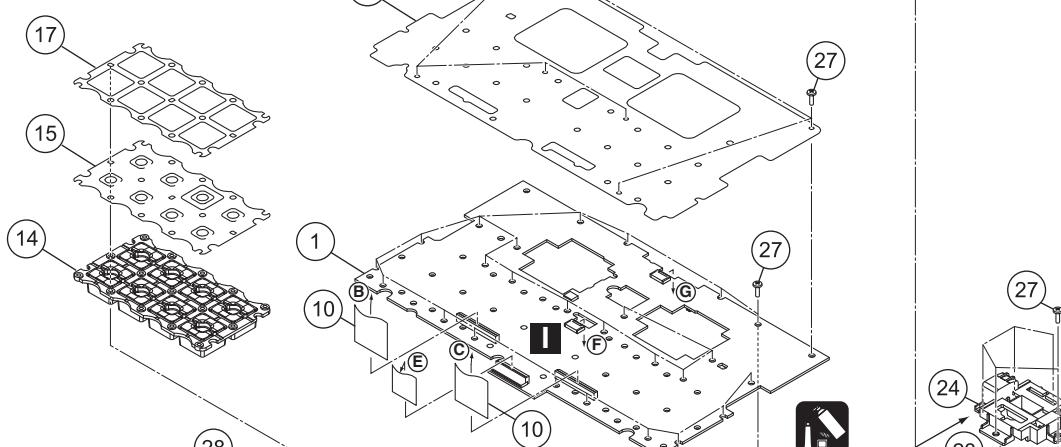
B



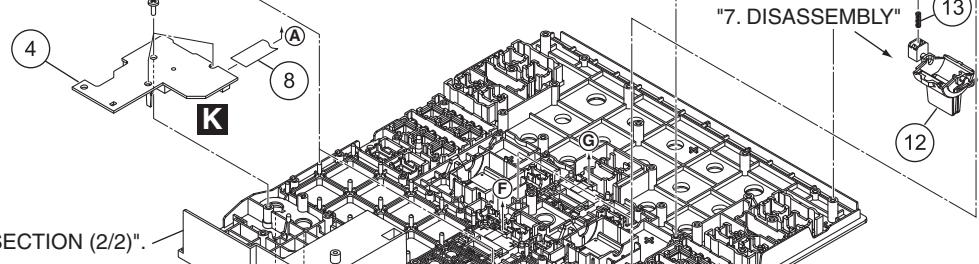
C



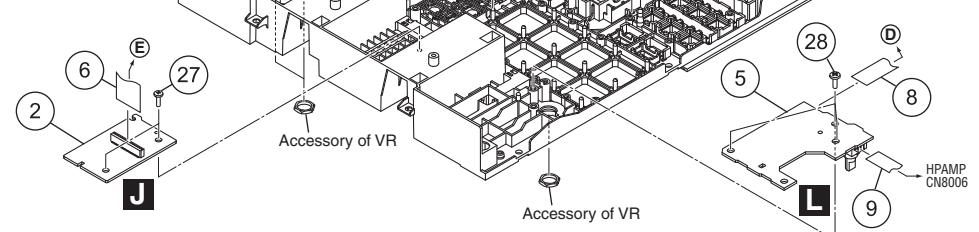
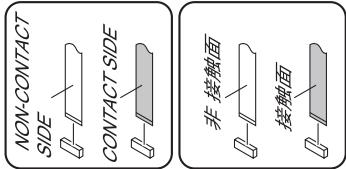
D



E



F



PANEL SECTION (1/2) SECTION PARTS LIST

Mark No.	Description	Part No.
1	PADB Assy	DWX3675
2	LVMT Assy	DWX3679
3	PNL1B Assy	DWX3685
4	HPFD Assy	DWX3680
5	SPVR Assy	DWX3681
6	FFC/21P	DDD1655
7	FFC	DDD1698
8	FFC	DDD1699
9	FFC	DDD1700
10	FFC	DDD1701
11	FFC	DDD1724
12	Lever	DAC3081
13	Lever Spring	DBH1702
14	Button	DEB2014
15	Sheet	DEC3593
16	Sheet	DEC3600
17	Spacer	DEC3601
18	Sheet	DEC3635
19	I-Shield Sheet	DEC3644
20	Stay	DNH3212
21	Stay	DNH3213
22	Stay	DNH3214
23	Lever Cap	DNK5344
24	Holder	DNK6435
25	.....
26	.....
27	Screw	BPZ26P080FTC
28	Screw	BPZ30P080FNI

A

B

C

D

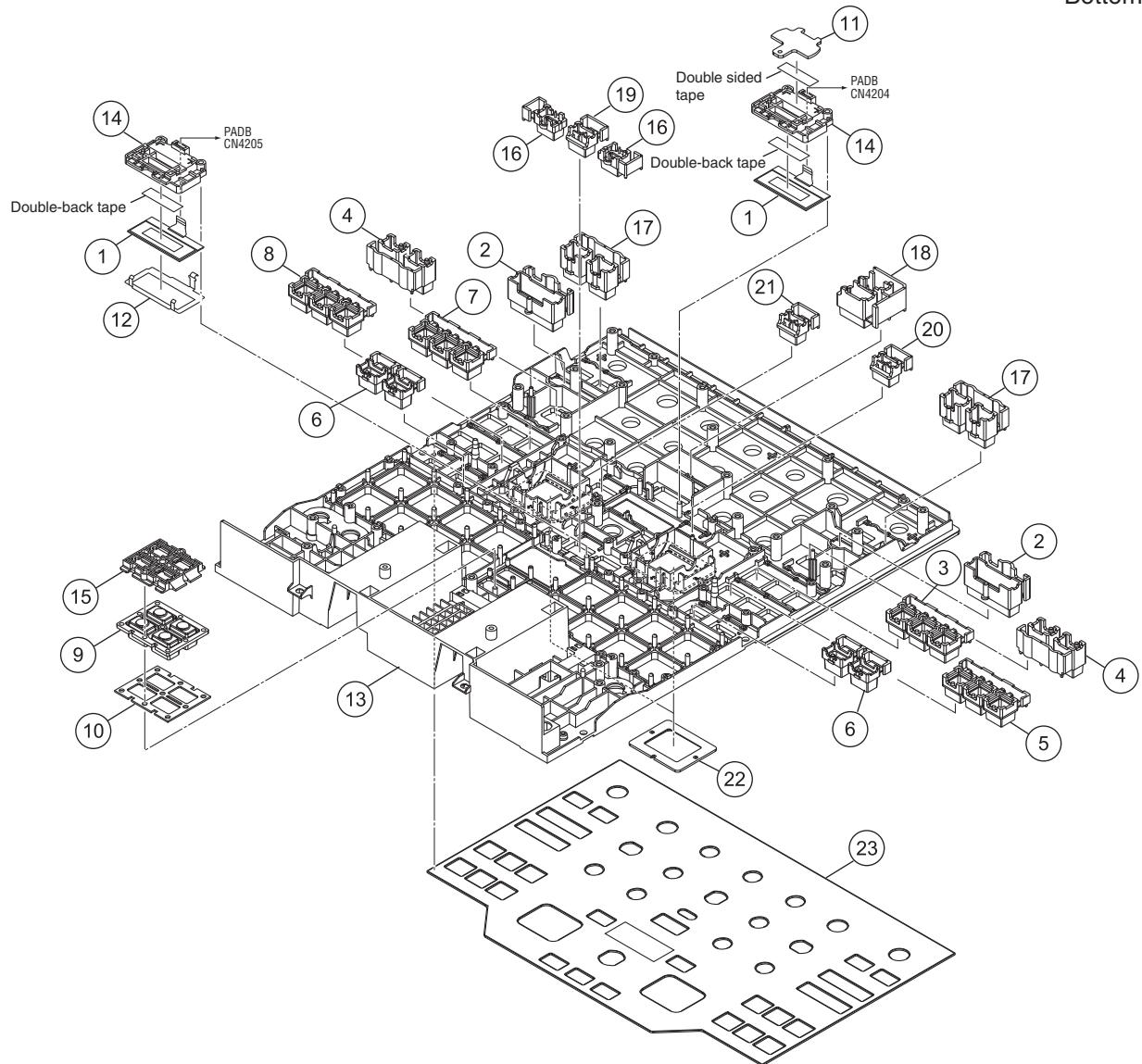
E

F

9.7 PANEL SECTION (2/2)

A

- Bottom view



B

C

D

E

F

PANEL SECTION (2/2) SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Matrix OEL	MXS4057	16	Button	DXA2289
2	Button	DAC3082	17	Button	See Contrast table (2)
3	Button	DAC3084	18	Button	See Contrast table (2)
4	Button	DAC3090	19	Button	See Contrast table (2)
5	Button	DAC3093	20	Button	See Contrast table (2)
6	Button	DAC3094	21	Button	See Contrast table (2)
7	Button	DAC3095	22	Panel	See Contrast table (2)
8	Button	DAC3096	23	Panel	See Contrast table (2)
9	Button	DEB2015			
10	Sheet	DEC3604			
11	Spacer	DEC3641			
12	Shield Plate	DNF1969			
⚠ 13	Panel	DNK6438			
14	Holder	DNK6439			
15	Holder	DNK6443			

(2) CONTRAST TABLE

DJM-S9/LSYXJ, DJM-S9/UXJCB, DJM-S9-N/LSYXJ and DJM-S9-N/UXJCB are constructed the same except for the following:

Mark	No.	Symbol and Description	DJM-S9 /LSYXJ	DJM-S9 /UXJCB	DJM-S9-N /LSYXJ	DJM-S9-N /UXJCB
	17	Button	DAC3085	DAC3085	DAC3101	DAC3101
	18	Button	DXA2288	DXA2288	DXA2290	DXA2290
	19	Button	DAC3087	DAC3087	DAC3102	DAC3102
	20	Button	DAC3091	DAC3091	DAC3103	DAC3103
	21	Button	DAC3092	DAC3092	DAC3104	DAC3104
	22	Panel	DNK6436	DNK6436	DNK6457	DNK6457
	23	Panel	DNK6437	DNK6437	DNK6459*	DNK6459*

*The serial number is not printed on this part for service.

C

D

E