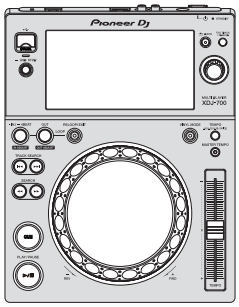
Pioneer DJ

Service Manual



XDJ-700

ORDER NO.
RRV4637

MULTI PLAYER

XDJ-700

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

Model	Type	Power Requirement	Remarks
XDJ-700	UXJCB	AC 100 V to 240 V	
XDJ-700	SYXJ	AC 100 V to 240 V	
XDJ-700	FLXJ	AC 100 V to 240 V	
XDJ-700	AXJ	AC 100 V to 240 V	

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

Model	Order No.	Remarks
XDJ-700	RRV4638	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

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

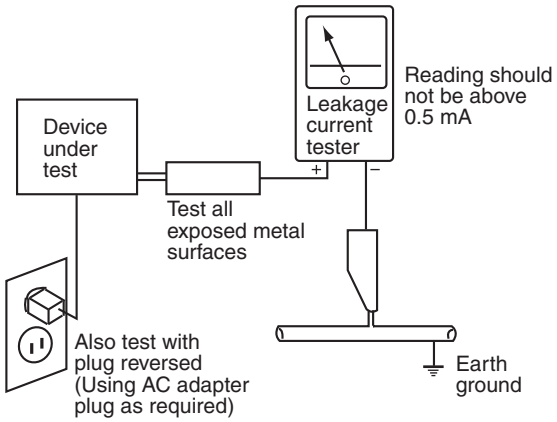
(FOR USA MODEL ONLY)

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

- 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 PARTS

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

Assy Name	Parts that is Difficult to Replace			
	Ref No.	Function	Part No.	Remarks
MAIN Assy	IC2	Authentication Coprocessor	H337S3959	USON package (UltraSmallOutlineNon-lead)
	IC8	MAIN CPU	R8A77240D500BG2	BGA package
	IC11, 14	DDR2	M14D51216322R5BG2K	BGA package
	IC301	DSP	D810K013DZKB400	BGA package
	IC701	LCD Backlight Power IC	BD81A04EFV-M	IC with heat-pad
	IC702	LCD Power IC	R1290K103A	QFN, IC with heat-pad
	IC1202	USBA Current Limit IC	TPS2557DRB	QFN, IC with heat-pad
	IC1203	ETHER PHY	LAN8720A-CP	QFN, IC with heat-pad
	IC1301, 1302	12 V→3.3 V DC/DC Converter	BD9328EFJ	IC with heat-pad
	IC1303	12 V→1.2 V DC/DC Converter	BD9328EFJ	IC with heat-pad

1.3 SERVICE NOTICE

■ About the Flash ROM (IC13) in the MAIN Assy

Replacement of the Flash ROM (IC13) in the MAIN Assy is not possible during service, because writing of the MAC address on the production line is required.
Therefore, the Flash ROM (IC13) is not supplied as a service part. If the Flash ROM is defective, replace the whole MAIN Assy.
After replacing the the MAIN Assy, writing of the serial number of the unit is required.
For details on how to write the serial number, see "8.3 WRITING THE SERIAL NUMBER OF THE UNIT."

■ About backup of the UTILITY settings

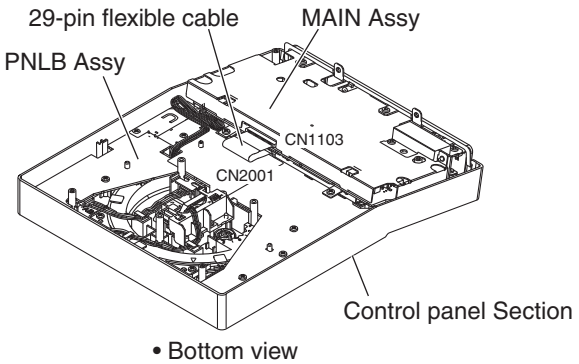
As this unit is provided with user-settable UTILITY settings (such as the Play mode setting,) it is recommended that you back up the settings before starting repair. The settings can be stored for backup in a USB memory device.
For details on how to back up and restore data, see "■ How to Back Up and Restore the Settings" in "8.5 ITEMS FOR WHICH USER SETTINGS ARE AVAILABLE ."

■ About discharging

If the 29-pin flexible cable connecting CN2001 on the PNLB Assy and CN1103 on the MAIN Assy of the control panel section is disconnected, be sure to unplug the Power cord then wait 3 minutes or more before reconnecting the flexible cable.

This is because the internal electrical charge remains in the power circuit for a while after the Power cord is unplugged.
If the flexible cable is connected in such a state, L706 will be damaged.

If the ICP is damaged, no buttons or LEDs of the unit will light and nothing will be displayed when the POWER switch is set to ON.



• Bottom view

2. SPECIFICATIONS

AC adapter
Power..... AC 100 V to 240 V, 50 Hz/60 Hz
Rated current.....0.6 A
Rated output.....DC 12 V, 2 A
Power consumption (standby) .....0.5 W

General – Main Unit
Power consumption .....DC 12 V, 1200 mA
Main unit weight.....2.0 kg (4.4 lb)
(When not attached with the stand).....1.7 kg (3.7 lb)
External dimensions
.....238 mm (W) × 106.3 mm (H)× 307.8 mm (D)
(9.3 in. (W) × 4.1 in. (H) × 12.1 in. (D))
(When not attached with the stand)
.....238 mm (W) × 78.8 mm (H) ×307.8 mm (D)
(9.3 in. (W) ×3.1 in. (H) ×12.1 in. (D))
Tolerable operating temperature.....+5 °C to +35 °C
Tolerable operating humidity.....5 % to 85 % (no condensation)

Analog audio output (AUDIO OUT L/R)
Output terminals..... RCA terminal
Output Level .....2.0 Vrms (1 kHz)
Frequency response..... 4 Hz to 20 kHz
S/N ratio.....115 dB
Total harmonic distortion .....0.003 %

USB downstream section (USB)
Port.....Type A
Power supply.....5 V/1 A or less

USB upstream section (USB)
Port.....Type B

LAN (PRO DJ LINK)
Rating 100Base-TX

Main display
Display type..... Active matrix TFT liquid crystal display (LCD)
Supported languages ..... 18 languages

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

Accessories

- Power cord
  (UXJCB: XDG3052)
  (SYXJ: ADG1154)
  (FLXJ: ADG1154, ADG7097)
  (AXJ: ADG7079)
- Audio cable × 1
  (XDE3045)
- LAN cable × 1
  (DDE1141)
- AC adapter × 1
  (DWR1546)
- Operating Instructions (Quick Start Guide) × 1
  (UXJCB: DRH1313)
  (SYXJ: DRH1314)
  (FLXJ: DRH1315)
  (AXJ: DRH1316)

3. BASIC ITEMS FOR SERVICE
3.1 CHECK POINTS AFTER SERVICING

Items to be checked after servicing

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

No.	Procedure	Check points
1	Confirm the firmware version on Service mode.	The version of the firmware must be latest. Update firmware to the latest one, if it is not the latest.
2	Confirm whether the customer complain has been solved.	The customer complain must not be reappeared.
3	Check the connection of each interface.	
	Playback data contained in the device connected to USB A.	Audio, Search and operations must be normal.
	USB B.	The PC must be linked.
	LINK.	The PC must be linked.
4	Check output signals while the Jog dial or TEMPO slider is being operated.	Audio and operations must be normal.
5	Check the keys on the unit.	Check whether a product can be operated properly by buttons on the product.
6	Check the LCD display.	Check that there is no dirt or dust trapped inside the LCD display.
7	Check the Touch panel.	Check whether a product can be operated properly in an all-black screen of the Service mode.
8	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

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

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

3.2 JIGS LIST

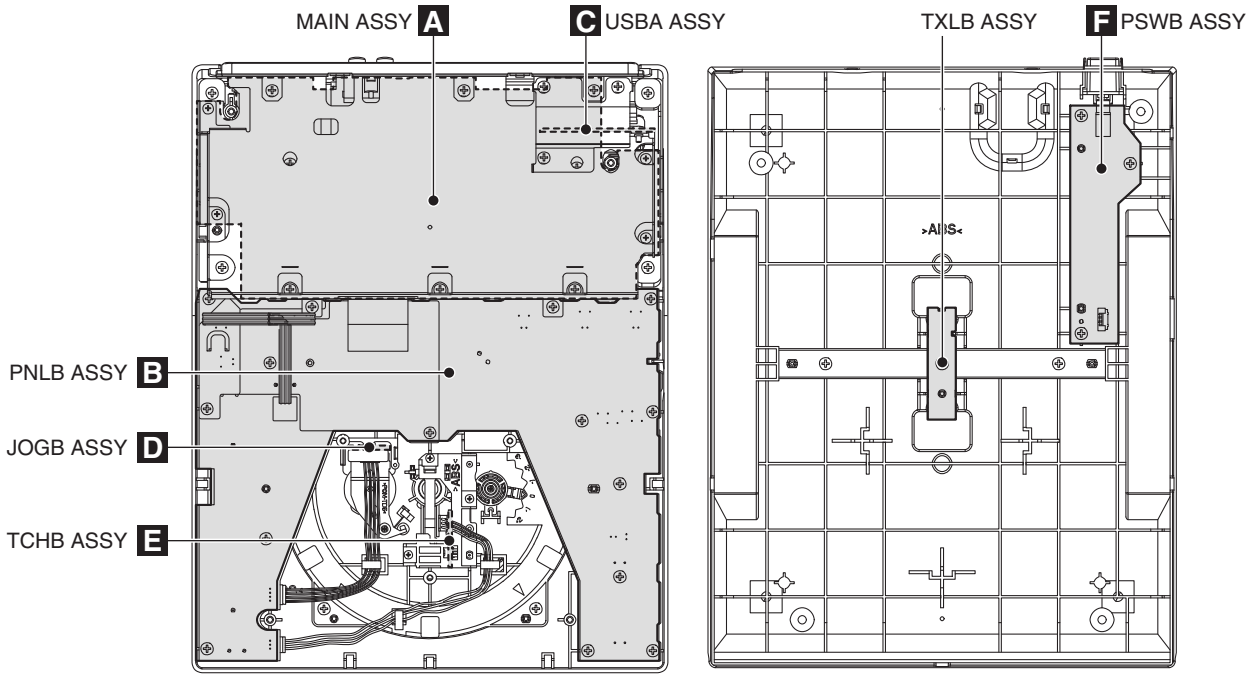
■ Jigs List

Jig Name	Part No.	Purpose of use / Remarks
Software for writing the serial number	GGS1177	For writing the serial number of the unit to the MAIN Assy after replacement. The zipped writing tool (mmpforseigi.exe) and data file (hidcom.dll) are posted at Niis. See "8.3 WRITING THE SERIAL NUMBER OF THE UNIT."

■ Lubricants and Glues List

Name	Part No.	Remarks
Lubricating oil	GYA1001	Refer to "9.4 JOG DIAL SECTION".

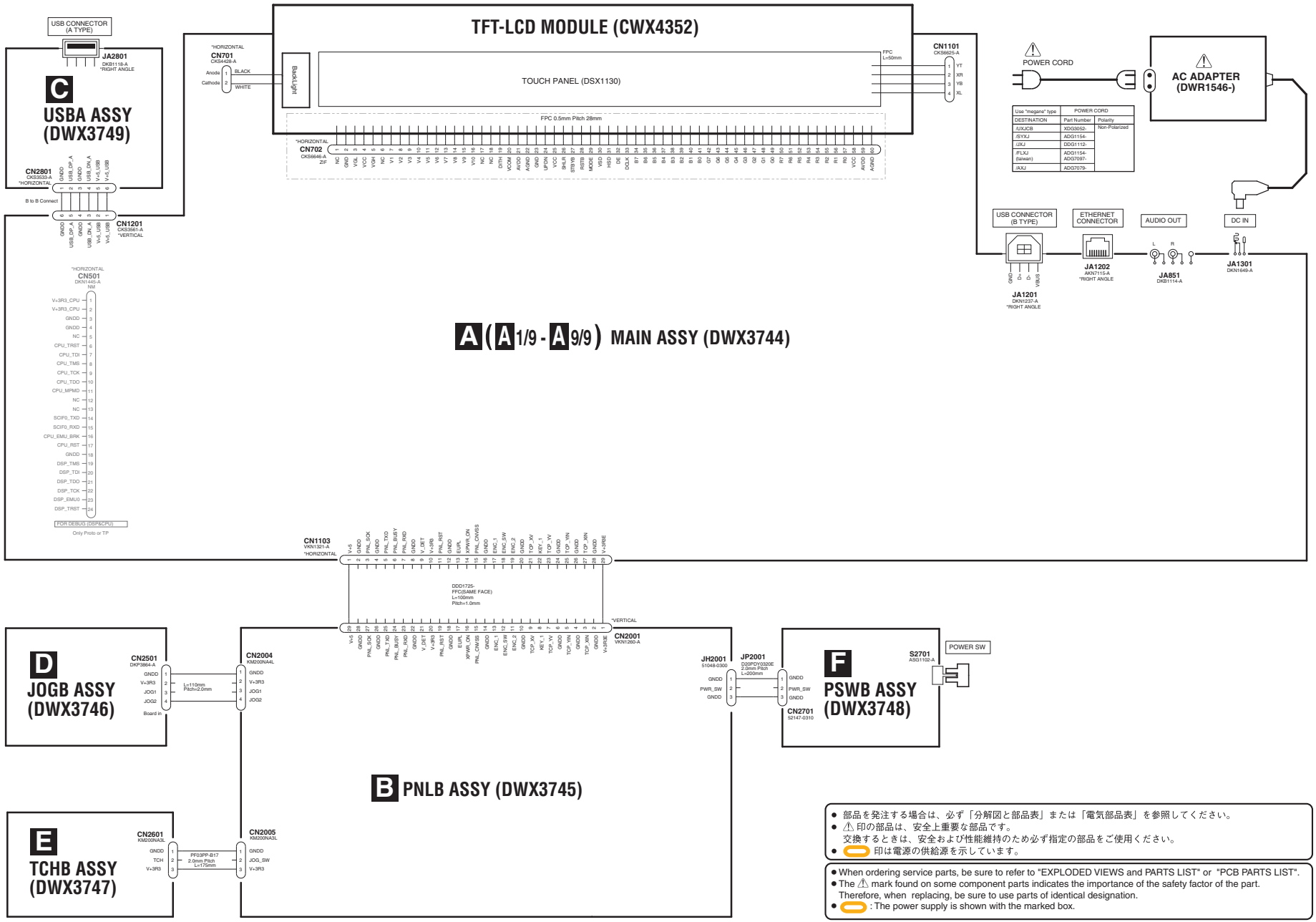
3.3 PCB LOCATIONS



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

Mark	No.	Description	Part No.
LIST OF ASSEMBLIES			
	1	..MAIN ASSY	DWX3744
NSP	1	..PNL ASSY	DWM2581
	2	..PNLB ASSY	DWX3745
	2	..JOGB ASSY	DWX3746
	2	..TCHB ASSY	DWX3747
	2	..PSWB ASSY	DWX3748
	2	..USBA ASSY	DWX3749
	2	..TXLB ASSY	DWX3750

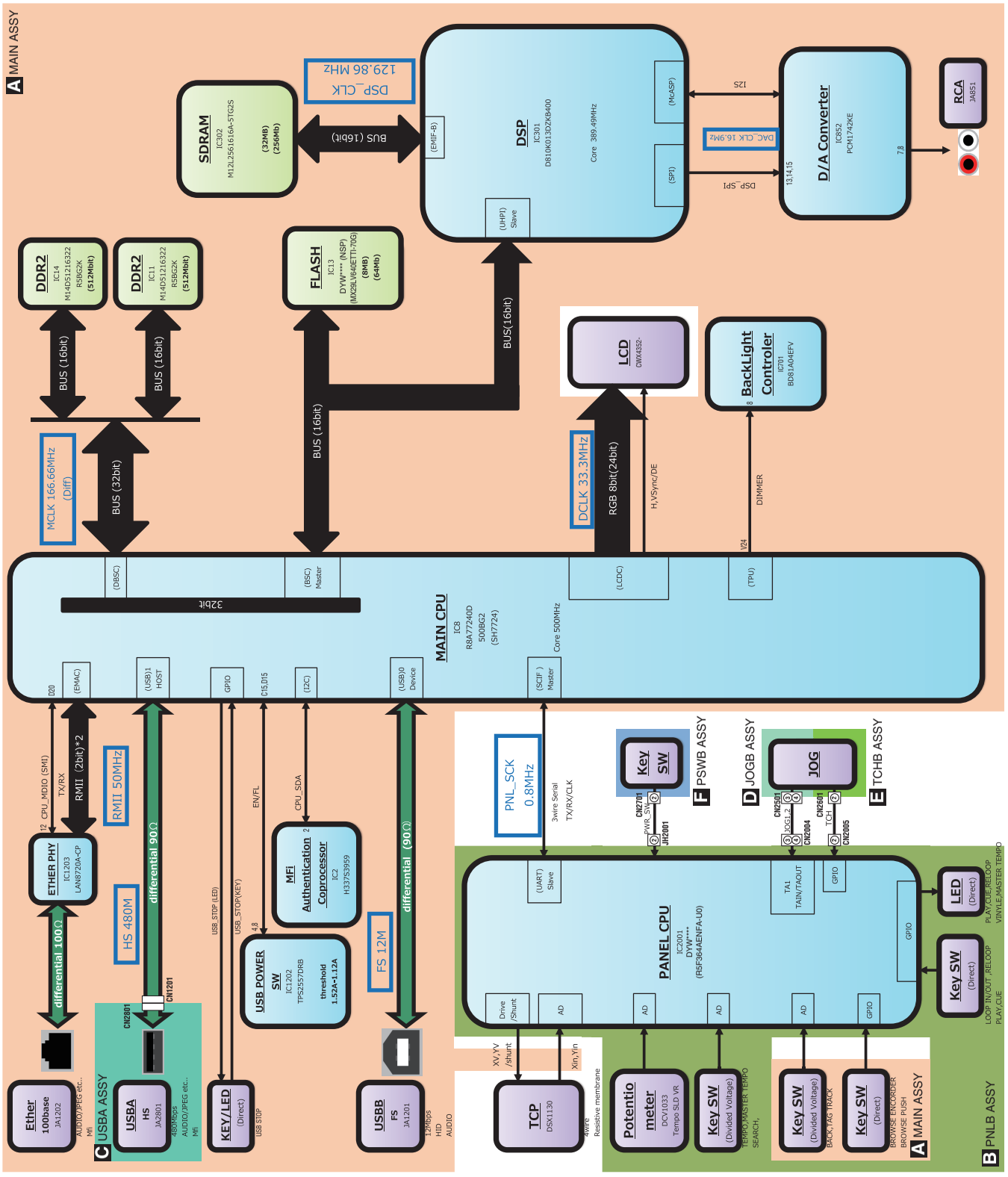
4. BLOCK DIAGRAM



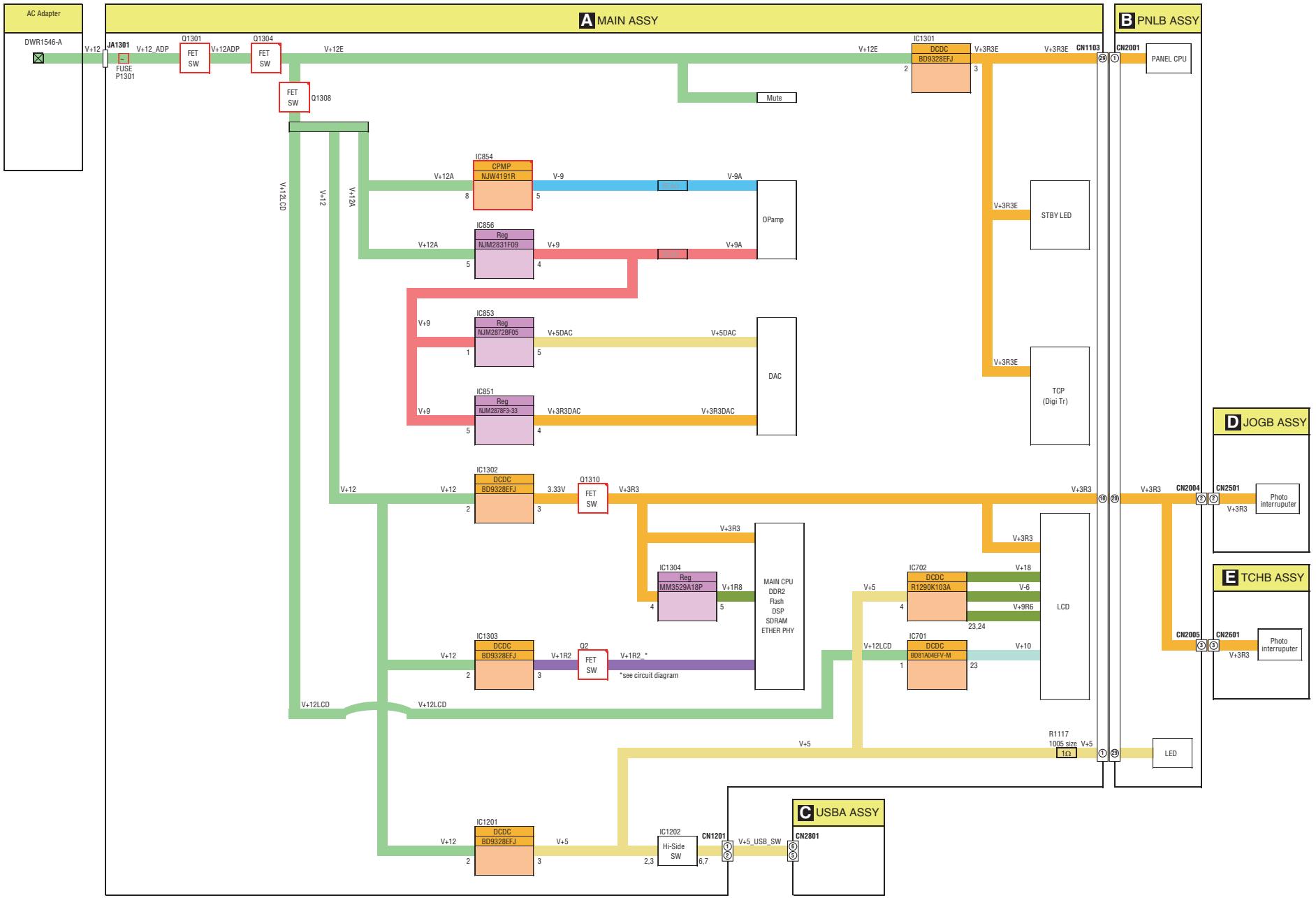
- 部品を発注する場合は、必ず「分解図と部品表」または「電気部品表」を参照してください。
- ⚠ 印の部品は、安全上重要な部品です。
  交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。
- ⬭ 印は電源の供給源を示しています。

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

4.2 SIGNAL BLOCK DIAGRAM

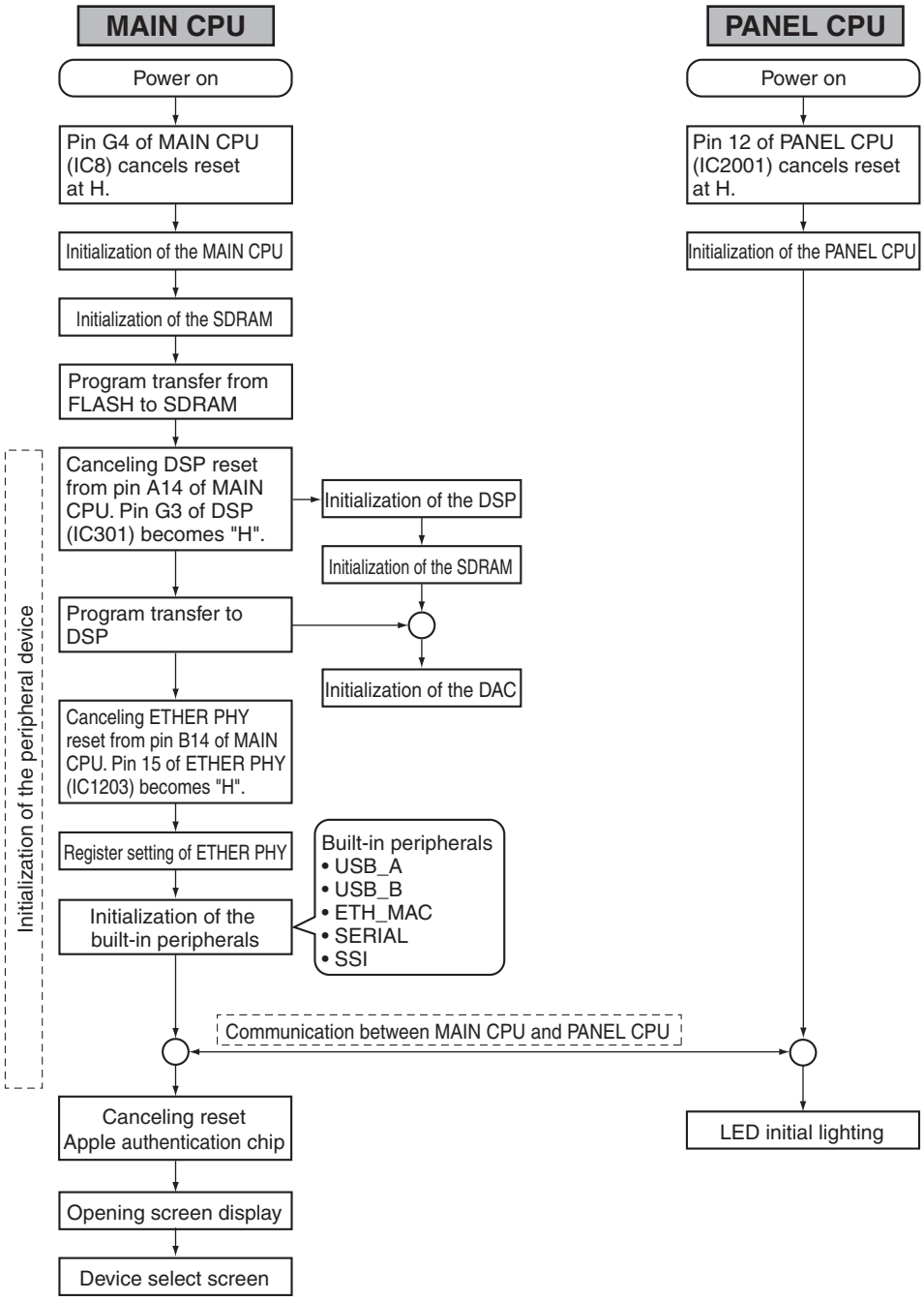


4.3 POWER SUPPLY BLOCK DIAGRAM



XDJ-700

5. DIAGNOSIS
5.1 POWER ON SEQUENCE



5.2 TROUBLESHOOTING

In this section, causes of failure, diagnostics points, and corrective measures can be searched for according to symptoms.
Before disassembling this unit, it is recommended to infer a failure point by performing a status check and referring to the error code.
For the relationship of each power-supply and signal system, see “4. BLOCK DIAGRAM,” and “10. SCHEMATIC DIAGRAM.”
If software of the product is updated before performing diagnostics, check that software updating has been performed properly before proceeding to diagnostics.
If software updating has not been performed properly, update the software, following the instructions in [6] Firmware update of “6.1 SERVICE MODE.”

Contents

[0] Prior Confirmation
[1] Failure in Startup
[2] Display (LED)
[3] Operations (Button/Volume/Rotary enncoder / Jog dial / Touch panel)
[4] USB (Type A/Type B)
[5] LAN
[6] AUDIO OUT
[7] EUP Mode
[8] Error Codes
[9] Power Monitoring

The waveform numbers confirmation-point numbers (10.13 WAVEFORMS) described in this section correspond to the numbers on the “10. SCHEMATIC DIAGRAM” and “11. PCB DIAGRAM” .
Be sure to check the failure points, as well as check for failure in their peripheral circuits.

[0] Prior Confirmation

[0-1] Checking in Service Mode

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	————	————	Check for the location of a defect in Service mode.	See the section describing locations of defects in this manual.	6.1 SERVICE MODE

[0-2] Checking the Alarm Port

If “[0-1] Checking in Service Mode” is performed, this check is not required.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	————	Alarm port on the MAIN Assy (Fig. 1)	Check the output waveforms from the alarm port.	If an output waveform is judged to be improper, see the section describing locations of defects in this manual.	6.1 SERVICE MODE _[5] Outputs of the Alarm Port

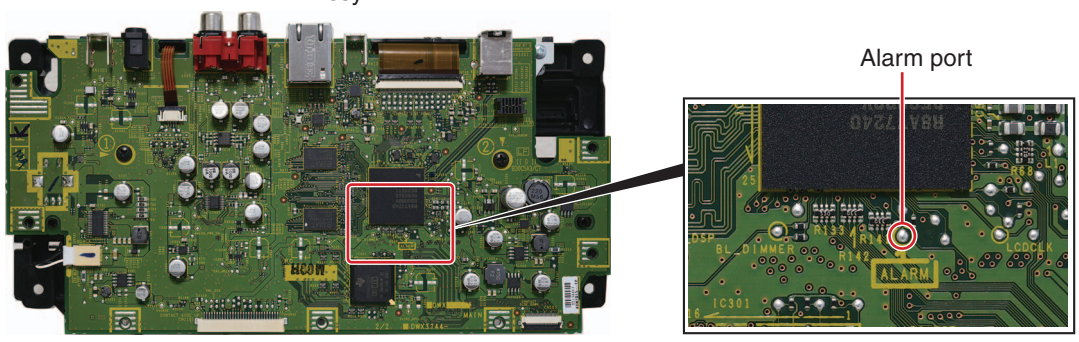


Fig. 1

[0-3] Checking Cables

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Disconnection, breakage, or loose connection of cables	Cables	Check that all the cables are securely connected. Check that there is no breakage in the cables.	Securely connect the cables. If a cable is broken, replace it.	4.1 OVERALL WIRING DIAGRAM 10. SCHEMATIC DIAGRAM

[1] Failure in Startup

[1-1] No power

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	The AC adapter does not function properly.	AC adapter	Check V+12.	If V+12 (JA1301 pin 1) is not output, the AC adapter is defective. Replace it.	————

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
2	The SW power does not function properly.	PNLB Assy, LCDB Assy	Check V+3R3_PNL.	The regulator IC (IC1301) may be loosely connected with its peripheral devices or a part may be defective. Correct loose connection. If the symptom persists, replace the defective part.	————
3	The EUP control unit does not function properly.	MAIN Assy	Check the XPWR_ON signal.	If the signal of XPWR_ON is L, may be loosely connected with its peripheral devices or a part may be defective. Correct loose connection. If the symptom persists, replace the defective part. (Q1, Q2007)	————
4	Various power supply ICs do not function properly.	MAIN Assy	Check each power-supply IC.	The power IC and its peripheral devices for each power supply may be loosely connected or a part may be defective. Correct loose connection. If the symptom persists, replace the defective part.	————
5	Defective CPU_RST signal	MAIN Assy	Check the CPU_RST signal.	If CPU_RST is "L" although the V+3R3_CPU is normal, the RESET IC (IC6) is defective or the relevant connection is poor. Correct loose connection. If the symptom persists, replace the defective part.	————
6	Defective SYS_CLK signal	MAIN Assy	Check the SYS_CLK (=33.333333 MHz) signal.	The X2 or Logic IC (IC3) may be loosely connected with its peripheral devices or a part may be defective. Correct loose connection. If the symptom persists, replace the defective part.	10.13 WAVEFORMS ① (IC3-pin 7)

[1-2] Indications on the LCD

Check the indications on the LCD.

Nothing is displayed on the LCD. (Black screen)

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Power for backlight is not input properly.	MAIN Assy	Check the connection of the backlight power connector (CN701) and the mounting status of the peripheral parts of the power-supply circuit for backlighting (IC701).	Possible causes are poor connection of the backlight power connector (CN701) and defective power-supply circuit for backlighting. Correct loose connection. If the symptom persists, replace the defective part.	————
2	Defective LCD_CLK signal	MAIN Assy	Check the LCD_CLK (= approximately 32.3 to 33.3 MHz) signal.	The IC1 may be loosely connected with its peripheral devices or a part may be defective. Correct loose connection. If the symptom persists, replace the defective part.	————
3	Loose connections between MAIN CPU and LCD module	MAIN Assy	LCheck the power source and signals to the LCD module (CN702). • VAVDD (pin 59), VGL (pin 3), V+3R3LCD (pin 4), VGH (pin 5) • DCLK (pin 33 = approximately 32 MHz), DE (pin 32), RSTB (pin 28 ="H"), STBYB (pin 27 = "H")	Check the signals described in the left adjacent column at CN702 to identify a defective part then correct connection or replace the defective part with a new one.	10.13 WAVEFORMS ② (CN702-pin 33)

The colors displayed on the LCD are improper.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connections between MAIN CPU and LCD module	MAIN Assy	LCheck the power source and signals to the LCD module (CN702). • B7 : B2 (pin 34 : 39), G7 : G2 (pin 42 : 47), R7 : R2 (pin 50 : 55)	Check the signals described in the left adjacent column at the MAIN CPU (IC8), CN702 to identify a defective part then correct connection or replace the defective part with a new one.	————

[2] Display (LED)

All LEDs except USB_STOP are controlled by the PANEL CPU (IC2001).

[2-1] An LED does not light.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective LEDs	PNLB Assy	Check that soldering at the LED in question is properly made. If it is OK, check that the forward voltage (2.2 - 2.7 V) is present at both ends of the LED.	Correct any defective soldering. If the forward voltage is present, then the LED itself is defective. Replace it.	————
2	Defective drive circuit	PNLB Assy	Check that the control signal for the LED in question is output from the PANEL CPU (IC2001).	If the LED does not light even if the control signal is output properly, then the transistor is defective. Replace it.	————
3	Defective PANEL CPU	PNLB Assy	If the symptom persists after the above corrections.	Check the connection between the PANEL CPU (IC2001) and the LED in question. If the connection is OK, the port may be damaged. Replace it.	————

[3] Operations (Button / Volume / Rotary encoder / Jog dial / Touch panel)

As operations of all buttons, variable volumes, rotary encoder , Jog dial and Touch panel can be checked in Service mode, it is recommended to check operations of those controls in Service mode before proceeding to the subsequent checks.
(For details, refer to 6. SERVICE MODE.)

[3-1] No key functions.

No key functions. (except USB STOP button)

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective Power SW	PNLB Assy	Check if there is loose connection on the signal line from the PANEL CPU (IC2001) up to the SW.	If there is no loose connection and if the signal does not become L when the Power SW is pressed, that SW is defective. Replace it.	————
2	Defective RST signal of PANEL CPU	PNLB Assy	Check the RST signal of the PANEL CPU (IC2001 pin 12).	If Pin 12 of IC8003 is "L" although the V+3R3E is normal, the RESET IC (IC2003) or Q2005 is defective or the relevant connection is poor. Correct connection or replace the defective part with a new one.	————
3	Defective CLK signal of PANEL CPU	PNLB Assy	Check the CLK signal of the PANEL CPU (IC2001 pin 13 = 4 MHz).	The X2001 may be loosely connected with its peripheral devices or a part may be defective. Correct loose connection. If the symptom persists, replace the defective part.	10.13 WAVEFORMS ③ (IC2001-pin 15)
2	Defective PANEL CPU	PNLB Assy	If the symptom persists after the above corrections.	Check the connection of the PANEL CPU (IC2001). If the connection is OK, the port may be damaged. Replace it.	————

The USB STOP button does not function. (The signal from the USB STOP button is input to the MAIN CPU.)

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective SW	PNLB Assy, MAIN Assy	Check if there is loose connection on the signal line from the MAIN CPU (IC8) up to the SW.	If there is no loose connection and if the signal does not become L when the SW is pressed, that SW is defective. Replace it.	————
2	Defective MAIN CPU	MAIN Assy	If the symptom persists after the above corrections.	The MAIN CPU (IC8) is defective. Replace the MAIN Assy.	————

[3-2] Variable volumes not controllable

TEMPO slider not controllable

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective TEMPOslider	PNLB Assy	Check the waveform of signals on the signal line (ADCT, ADIN).	If the voltage on the signal line (ADIN) fluctuates within the range of 0–3.3 V, with 1.65 V at the center, go to Step 2. If it does not, the TEMPO slider (VR2001) is defective. Replace it.	————
2	Defective PANEL CPU	PNLB Assy	If the symptom persists after the above corrections.	Check the connection of the PANEL CPU (IC2001). If the connection is OK, the port may be damaged. Replace it.	————

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

No response when the Rotary selector is operated

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connections in the signal line or defective SW	MAIN Assy, PNLB Assy	Check the connections of the signal lines for ENC_SW, ENC1, and ENC2. When the SW is pressed, the ENC_SW signal must become L, and when it is turned, the waveforms of the signal lines for ENC1 and ENC2 must change.	The PANEL CPU (IC2001) and SW may be loosely connected or they may be defective. Reconnect them securely. If the symptom persists, replace them.	————
2	Defective PANEL CPU	PNLB Assy	If the symptom persists after the above corrections.	Check the connection of the PANEL CPU (IC2001). If the connection is OK, the port may be damaged. Replace it.	————

[3-4] Abnormalities regarding the Jog dial

Turning of the Jog dial is not detected

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective photo interrupter or PANEL CPU	JOGB Assy, PNLB Assy	Check the waveforms of the signal lines (JOG1/JOG2).	If no waveform can be confirmed, the photo interrupter (PC2501) may be defective. Replace it. If a waveform can be confirmed, the signal line may be loosely connected or the PANEL CPU (IC2001) may be defective. Reconnect the signal line. If the symptom persists, replace it.	10.13 WAVEFORMS ④⑤ (CN2004-pin 3 (JOG1)) (CN2004-pin 4 (JOG2))
2	Defective encoder plate	Jog dial Section	Check if the encoder plate has come off Gear A or is dirty.	If it has come off, adhere it at its original position. If it is dirty, replace it with a new one.	————

Pressing on the Jog dial cannot be detected.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective mecha. part or PANEL CPU	TCHB Assy, PNLB Assy	Check the waveform of the signal on the signal line (JOG_SW) when the Jog dial is pressed.	If the signal on the signal line (JOG_SW (IC2002_pin 2)) is not set to L when the Jog dial is pressed, the TCHB Assy may be defective. Replace it. If the signal line is set to L, the signal line may be loosely connected or the PANEL CPU (IC2001 or buffer IC (IC2002)) may be defective. Reconnect the signal line. If the symptom persists, replace it.	————

Noise is heard when the Jog dial is turned.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective gears	Jog dial Section	There may be any scratches on the gear or some foreign object between the gears.	If there are any scratches, replace the scratched gear with a new one. If there is any foreign object, remove it then replace the gears with new ones. Target part: Load gear, Encoder gear, Jog shaft After that, check that the Jog adjustment value is within the reference range, referring to “8.4 JOG DIAL ROTATION LOAD ADJUSTMENT.”	————
2	Improper assembly of the Jog dial	Jog dial Section	Check that grease is applied to the roller.	If the amount of grease on the roller is insufficient, apply grease to the shaft bearing of the Jog holder and roller section.	————

The Jog dial turns too freely. (The load value for the Jog dial is outside the specified range.)

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Improper adjustment or assembly of the Jog dial	Jog dial Section	Check that the load value for the Jog dial is within the specified range, referring to “Measuring method” in “8.4 JOG DIAL ROTATION LOAD ADJUSTMENT.”	If it is outside the specified range, adjust the position of the Cam plate to change the load value for the Jog dial, referring to “How to Adjust” in “8.4 JOG DIAL ROTATION LOAD ADJUSTMENT.”	————
				During the above adjustment, if the upper-limit adjustment position of the Cam plate is reached, oil mayhave been spattered on the Cam Plate. Replace the Washer, Load gear, and Cam plate with new ones, then reassemble. After replacement, adjust the position of the Adjust Plate to change the load value for the Jog dial.	————

Resistance to turning the Jog dial is too strong. (The load value for the Jog dial is outside the specified range.)

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Improper adjustment of the JOG dial or defective washer, gear, or cam plate	Jog dial Section	Check that the load value for the Jog dial is within the specified range, referring to “Measuring method” in “8.4 JOG DIAL ROTATION LOAD ADJUSTMENT.”	If it is outside the specified range, adjust the position of the Cam plate to change the load value for the Jog dial, referring to “How to Adjust” in “8.4 JOG DIAL ROTATION LOAD ADJUSTMENT.”	————
				During the above adjustment, if the lower-limit adjustment position of the Cam plate is reached, shavings from the worn-out washer may have increased the friction. Replace the Washer, Load gear, and Cam plate with new ones, then reassemble. After replacement, adjust the position of the Cam plate to change the load value for the Jog dial.	————

[3-5] The touch panel is inoperable

The touch panel is unresponsive to operations.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Poor calibration (user)	Black screen of Service mode	Check if position gap is a cause of unresponsiveness of the keys on the touch panel.	Perform calibration.	————
2	Loose connections	MAIN Assy	Check that the FPC from the touch panel is securely connected to CN1101.	Fully insert the FPC from the touch panel at a right angle to CN1101 then securely lock it.	————
3	Defective PANEL CPU	PNLB Assy	Check the touch panel input signal (Pins 94 and 95 of IC2001) at the PANEL CPU. (at touch the center of the screen)	If the waveform is abnormal, go to 4. If the waveform is OK, the PANEL CPU (IC2001) may be in failure. Replace it.	10.13 WAVEFORMS ⑥⑦ (IC2001-pin 94,95) Note: The reference waveforms are those to be indicated when the center of the screen or its periphery is touched.
4	Defective Touch panel	MAIN Assy	Check the touch panel control signal (Pins 1–4 of CN1101).	Check operations of the circuits between IC2001 and CN1101 to identify the part in failure, then repair or replace the part in question. If there is no problem with those circuits, the touch panel itself is in failure. Replace it.	10.13 WAVEFORMS ⑧⑨⑩⑪ (CN1101-pin 1-4) Note: The reference waveforms are those to be indicated when the center of the screen or its periphery is touched.

[4] USB (Type A/Type B)

[4-1] No communication via the USB connector (Type A)

Check the following, with a USB device connected to the USB A connector.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connections in the communi-cation line.	Between USBA Assy and MAIN Assy	Check the connection of the USB communication line.	If connection is improper, resolder it. If connection is proper, go to 2.	————
2	V+5_USB, V+5_USBSW are defective.	MAIN Assy	Check V+5_USBSW of the USB power supply.	If V+5_USBSW cannot be confirmed and V+5_USB can be confirmed, go to 3. If V+5_USB cannot be confirmed, go to 4. If V+5_USBSW can be confirmed, go to 5.	————
3	The USB POWER SW IC or its control signal is defective.	MAIN Assy	Check the CPU_USB_HSTPWREN and HSSW_PWRFL signals from the USB POWER SW IC (IC1202).	If the CPU_USB_HSTPWREN signal does not become H, check the connection. If the connection is OK, then the MAIN CPU (IC8) is defective. Replace the MAIN CPU. If the HSSW_PWRFL signal does not become H, the USB POWER SW IC (IC1202) is in a state of shutdown caused by abnormally high temperature. Check the connection. If the connection is OK, then the port may be damaged. Replace it.	————
4	Defective DC/DC converter for V+5_USB or peripheral circuit	MAIN Assy	Check the DC/DC converter for V+5_USB (IC1201) or check the peripheral circuit.	Analyze DC/DC converter for V+5USB (IC1201) and peripheral circuit. Identify a defectiveness element and replace it.	————
5	Defective USB_CLK signal	MAIN Assy	Check the USB_CLK (= 48.000 MHz) signal.	The X3 may be loosely connected with its peripheral devices or a part may be defective. Correct loose connection. If the symptom persists, replace the defective part.	10.13 WAVEFORMS ⑫ (X3-pin 3)
6	Defective MAIN CPU	MAIN Assy	If the symptom persists after the above corrections.	The MAIN CPU (IC8) is defective. Replace the MAIN Assy.	————

[4-2] No communication via the USB connector (Type B)

Check the following, with a USB device connected to the USB B connector.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connections in the communi-cation line.	MAIN Assy	Check the USB communication line.	If connection is improper, resolder it. If connection is proper, go to 2.	————
2	Defective CPU_VBUS0 signal	MAIN Assy	Check the CPU_VBUS1 signal.	If the CPU_VBUS1 signal cannot be found, something is wrong in the line from the USB-B connector (JA1201) to MAIN CPU (IC8). Identify the defective site and correct it. If the CPU_VBUS1 signal is found, go to 3.	————
3	Loose connections in the USB signal.	MAIN Assy	Check the connections of the communication line (USB_D+, USB_D-).	The communication line may be loosely connected. Correct it if it is. If connection is proper, go to 4.	————
4	Defective USB_CLK signal	MAIN Assy	Check the USB_CLK (= 48.000 MHz) signal.	The X3 may be loosely connected with its peripheral devices or a part may be defective. Correct loose connection. If the symptom persists, replace the defective part.	10.13 WAVEFORMS ⑫ (X3-pin 3)
5	Defective MAIN CPU	MAIN Assy	If the symptom persists after the above corrections.	The MAIN CPU (IC8) is defective. Replace the MAIN Assy.	————

[5] LAN

[5-1] No LAN communication

Check the following, with a peripheral device connected to the LINK terminal.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connections in the communi-cation line.	MAIN Assy	Check the connection of the periphery circuit of ETHER PHY (IC1203).	If connection is improper, resolder it.	————
2	Defective ETHER PHY or MAIN CPU	MAIN Assy	If the symptom persists after the above corrections.	The ETHER PHY (IC1203) may be defective. Replace it. If the symptom persists, the MAIN CPU (IC8) may be defective. Replace the MAIN Assy.	————

[6] AUDIO OUT

[6-1] No sound

The analog audio signal is not output.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Power is not supplied properly.	MAIN Assy	Check the power voltages (V+9A, V-9A, V+3R3DAC, V+5DAC) for audio.	Each power-supply may be loosely connected or may be defective. Correct loose connection. If the symptom persists, replace the defective part.	————
2	Defective MUTE signal	MAIN Assy	Check the MUTE signal. While you usually playback, MUTE is canceled, and High.	The connection, transistor, or DSP may be defective. Correct loose connection. If the symptom persists, replace the defective part.	————
3	Loose connections in the signal line.	MAIN Assy	Check the connection of the audio signal lines (ROUT, LOUT).	If connection is improper, resolder it. If connection is proper, go to 4.	————
4	Defective DAC_MCLK signal	MAIN Assy	Check the DAC_MCLK (IC852 pin 16 = 16.9344 MHz) signal.	The X501 or logic IC (IC502) may be loosely connected with its peripheral devices or a part may be defective. Correct loose connection. If the symptom persists, replace the defective part.	10.13 WAVEFORMS ⑭ (IC852-pin 16)
5	DAC or DSP is defective.	MAIN Assy	Check the digital inputs (IC852 pin 1, 2, 3, 16) on DAC (IC852) and digital outputs (IC852 pin 7, 8).	If the analog signal is not output although the digital signal is input, DAC (IC852) or one of its peripheral parts may be defective. If the digital signal is not input, DSP (IC301) or one of its peripheral parts may be defective. Correct loose connection. If the symptom persists, replace the defective part.	————

[7] EUP Mode

Shifting to EUP mode is not possible.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	The AUTO STANDBY setting is set to OFF.	————	Check that the AUTO STANDBY setting in the UTILITY settings is set to ON.	Shifting to EUP mode is not possible when the setting is OFF. Change the setting, as required.	————
2	Defective PANEL CPU	PNLB Assy	Check that the signal from pin 69 of the PANEL CPU (IC2001) changes from H to L during mode shift.	The PANEL CPU (IC2001) may be defective. Check the soldering of the PANEL CPU and its periphery. If the soldering is OK, then replace it.	————
3	Disconnection, breakage, or loose connection of cables	MAIN Assy	Check the XPWR_ON signal changes from L to H during mode shift.	The signal line cable may be defective. If it is loosely connectedbetwenn MAIN and PNLB Assemblies, securely connect it. XPWR_ON signal and its periphery. If the soldering is OK, then replace it.	————
4	Defective FET SW	————	————	When there is not a problem with Step 3, the FET SW is defective. Replace it. (Q1308)	————

EUP mode cannot be exited.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective key or loose connection of the signal line	PNLB Assy its periphery	Check the connection of the nonresponding key.	Check the connection of the signal line for the nonresponding key. If the connection is proper, replace the connected SW.	————
2	Defective PANEL CPU	PNLB Assy	Check that the signal from pin 69 of the PANEL CPU (IC2001) changes from L to H during mode shift.	The PANEL CPU (IC2001) may be defective. Check the soldering of the PANEL CPU and its periphery. If the soldering is OK, then replace it.	————

[8] Error Codes

How to respond when an error code is displayed on the CONTROLLER DISPLAY (LCD) is described below.

[8-1] E-7010: DSP DEVICE ERROR

The DSP (IC301) does not work properly. Downloading of programs is not possible.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	————	————	————	If it is judged as NG, the DSP (IC301) or SDRAM (IC302)does not work properly or communication between the MAIN CPU (IC8) and DSP is not established. Proceed as follows:	————
2	Power is not supplied properly.	MAIN Assy	Check the power voltages (V+3R3_DSP and V+1R2_DSP).	The DSP requires two power supply systems. Check the connections of the power supply lines. If soldering is improper, resolder it.	————
3	The clock is not properly input.	MAIN Assy	Check that the frequency at pin 38 (DSP_CLK) of SDRAM (IC302) is approx. 129 MHz.	Check the connection of the logic IC (IC501). If soldering is improper, resolder it.	10.13 WAVEFORMS ⑭ (IC302-pin 38)
4	The RESET signal is not properly input.	MAIN Assy	Check that the signals of the DSP_RST line are H.	If the signal of the DSP_RST line is L, the port of MAIN CPU may be damaged. If the signal of the DSP_RST line is L, check the connection of the logic IC (IC8) and its periphery.	————
5	Loose connection between the MAIN CPU and DSP	MAIN Assy	Check the connection between the MAIN CPU and DSP.	Check the connections between MAIN CPU (IC8) and DSP (IC301). If soldering is improper, resolder it.	————
6	Loose connection between the MAIN DSP and SDRAM	MAIN Assy	Check the connection between the DSP and SDRAM.	Check the connections between DSP (IC301) and SDRAM (IC302). If soldering is improper, resolder it.	————
7	————	————	If the symptom persists after the above corrections.	Replace the MAIN Assy.	————

[8-2] E-7021: PHY CHIP ERROR

The ETHER PHY (IC1203) does not work properly.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	————	————	————	If it is judged as NG, the ETHER PHY (IC1203) does not work properly or communication between the MAIN CPU (IC8) and ETHER PHY is not established. Proceed as follows: See also "[5-1] No LAN communication."	————
2	Power is not supplied properly.	MAIN Assy	Check the power voltages of V+3R3_ETH and V+3R3A_ETH) lines.	Check the connections of the power supply lines. If soldering is improper, resolder it.	————
3	The clock is not properly input.	MAIN Assy	Check that the frequency at Pin 5 (CLK) of ETHER PHY (IC1203) is 25 MHz.	Check the connections between X1201 and ETHER PHY. If soldering is improper, resolder it.	10.13 WAVEFORMS ⑮ (IC1203-pin 5)
4	The RESET signal is not properly input.	MAIN Assy	Check that the signals of the ETHER_RST line is H.	If the signal of the ETHER_RST line is L, the port on the MAIN CPU may be damaged.	————
5	Loose connection between the MAIN CPU and ETHER PHY	MAIN Assy	Check the connections of communication line between the MAIN CPU and ETHER PHY.	Check the connections between MAIN CPU (IC8) and ETHER PHY (IC1203). If soldering is improper, resolder it.	————
6	————	————	If the symptom persists after the above corrections.	Replace the ETHER PHY (IC1203).	————

[8-3] E-7026: AUTH CHIP ERROR

The Apple authentication chip (IC2) does not work properly.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connection between the MAIN CPU and AUTHENTICATION CHIP	MAIN Assy	Check the connections of communication line between the MAIN CPU and AUTHENTICATION CHIP.	Check the connections between MAIN CPU (IC8) and AUTHENTICATION CHIP (IC2). If soldering is improper, resolder it.	————
2	————	————	If the symptom persists after the above corrections.	Replace the MAIN Assy.	————

[9] Power Monitoring

The Standby LED flashes, and the unit does not start up.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Poor connection of the voltage-monitoring circuit	PNLB Assy	Check the VDET voltage level. When the voltage level is H (3.3 V): Normal When the voltage level is L: Abnormal	Check the voltage at the PANEL CPU (Pin 21 of IC2001). If the voltage level is L, check the connections at the periphery of the POWER DETECTION circuit or Q2607. If the connection is improperly made, correct it. If a problem is not found, go to 2.	————
2	Poor connection of V+12/ V+3R3 or failure in parts of the power supply section	MAIN Assy, PNLB Assy	Remove Q1204 from the MAIN Assy then check the voltages at V+12 and V+3R3. Note: Removing Q1204 partially cancels power monitoring. Unplug the AC power cord after several seconds, because power will be forcibly supplied even if there is any failure in power supply. After checking the voltages, be sure to reattach Q1204.	Possible causes are poor connection of a power line whose voltage was abnormal or failure in parts of such a power line. Check the connections. If a connection is improperly made, correct it. If connection is properly made, replace a part, as follows: If the voltage at V+12 and V+3R3 are abnormal, replace the MAIN Assy. After checking the voltages, be sure to reattach Q2603.	————
3	————	————	If the symptom persists after the above corrections.	Replace the MAIN Assy then the PNLB Assy, in that order, one by one, followed by a startup check after each replacement.	————

5.3 CONNECTION CONFIRMATION WITH THE PC

[1. USB B connector]

Whether communication between the PC connected via the USB B connector and this unit is properly performed or not can be confirmed on the PC.

Note: Installation of the driver software is not necessary.

■ Use Device Manager for checking.

If the PC and this unit are properly connected, the components of this unit are added in Device Manager (under Hardware) as devices.

If all components are properly displayed, the PC and this unit are properly communicating via the USB connector.

In a case of Windows 7:

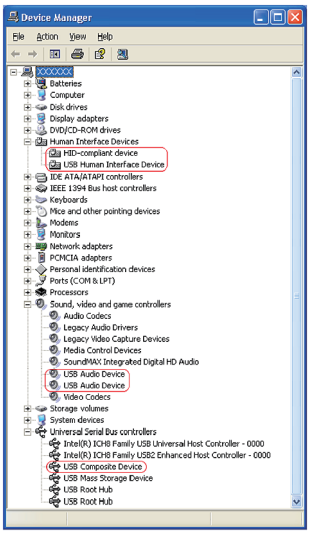
Click on "Start" then right-click on "Computer." Next, select "Properties" then select "Device Manager" on the System screen.

If a User Account Control screen is displayed, click on [Yes].

Devices to be added:

- Universal Serial Bus controllers
  - USB Composite Device
- Under “Sound, video and game controllers”
  - USB Audio Device
- Human Interface Devices
  - HID-compliant device
  - USB Human Interface Device

A communication check may be easily performed if connection is made with Device Manager displayed on the PC screen.



[2. LINK]

Whether communication between the PC connected via the LINK connector and this unit is properly performed or not can be confirmed on this unit.

Note: Use a Category 5 cable or a cable with higher specifications for connection.
Either a straight or cross LAN cable can be used when the unit is directly connected with the PC, but when the unit is connected with the PC via a hub, be sure to use a straight cable.

■ Use the MENU/UTILITY key of this unit to check linkage.

The linkage between the PC and this unit can be confirmed with LINK STATUS under [MENU/UTILITY].

How to display LINK STATUS

1. Hold the MENU/UTILITY key pressed for at least 1 sec.
   The [UTILITY] screen will be displayed.
2. Select LINK STATUS, using the rotary selector.
3. With LINK STATUS selected, connect the PC and this unit, using the LINK cable.
4. Check the LINK STATUS display.

	① Not connected	② While connection is being made	③ When connected properly
Indication	NOT CONNECT	CONNECTING	CONNECTED

If the indication changes from ① to ② then ③, the link is properly established.
If the cable is disconnected, the indication returns to ①.

5. After checking is completed, press the MENU/UTILITY key.
   The screen displayed before the MENU/UTILITY key was pressed will be restored

6. SERVICE MODE
6.1 SERVICE MODE

OUTLINE OF THE SERVICE MODE

The following service modes are prepared for this unit.

① Confirmation of the button input and an indication function.
It is the mode which checks each input and display function of a button, a Jog dial, the slider volume and a encoder.

② Check mode of the load of Jog dial.
It is the mode which measures the load when rotating Jog dial.

③ Indication of various information
It is a mode displaying information such as a version and an error history, a device normal / abnormality judgment.

④ Error display list
An error code and the contents are shown.

⑤ Output of the alarm port
Explanation of the meaning of output of status terminal on a PC Board Assy.

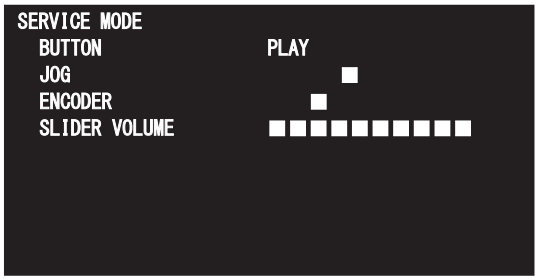
⑥ Firmware update.
Explanation of the method of firmware update.

DETAILS OF THE SERVICE MODE

[1] Confirmation of the button input and an indication function

When it spends a power supply while pushing a PLAY/PAUSE ►/II button and a TRACK SEARCH ►►I button simultaneously, It is displayed in the LCD display part, "SERVICE MODE", and enters into this mode.
(Please continue pushing until "Pioneer LOGO" screen disappears.)

In this mode, the input of each button, Jog dial, volume, etc. is normal, and it can check that a display can also be performed normally.
In addition, indication turns on while you push a button.
Caution: When TEMPO slider knob is moved to the + side in this mode, "the load measurement mode of Jog dial."
(Refer to the following clause.)



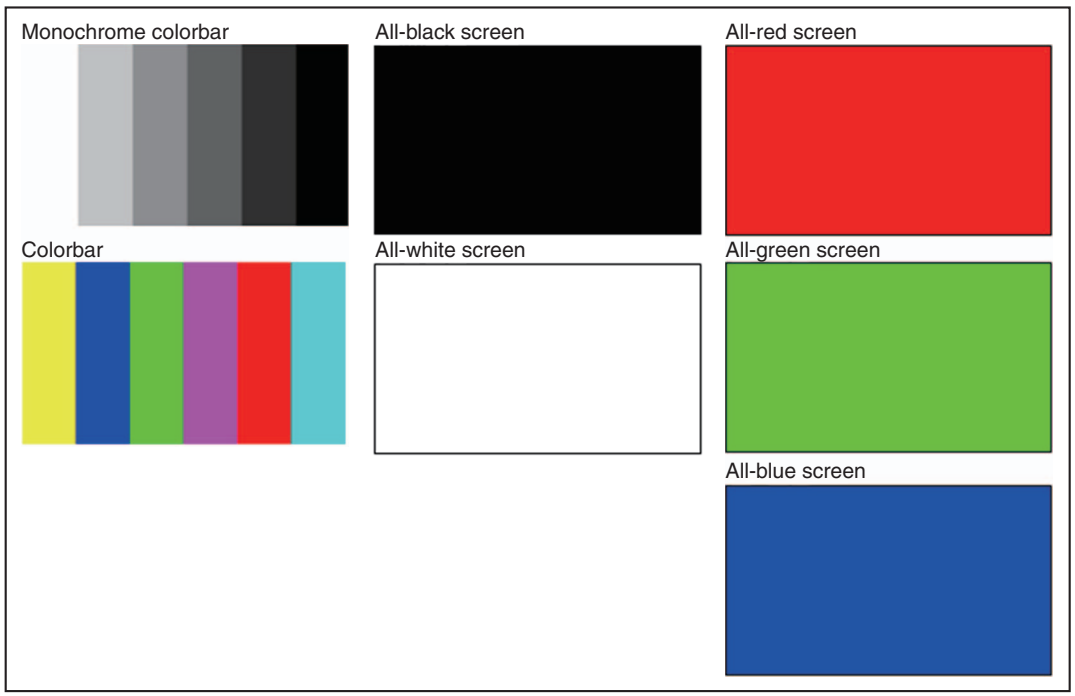
BUTTON	: The pushed button name is displayed.
JOG	: The point moves according to the direction that Jog dial turned.
ENCODER	: The point moves according to the direction that ENCODER switch turned.
TEMPO SLIDER VOLUME	: If a TEMPO slider knob is moved to the – side, a bar display will increase.

Button, Switch	Light up LED	Status Display (BUTTON)	Other Displays
PLAY/PAUSE (►/II)	PLAY/PAUSE (►/II)	PLAY	
CUE	CUE	CUE	
IN/-4BEAT (IN ADJUST)	IN/-4BEAT (IN ADJUST)	IN	
OUT (OUT ADJUST)	OUT (OUT ADJUST)	OUT	
RELOOP/EXIT	RELOOP/EXIT	RELOOP/EXIT	All LED lights up
TRACK SEARCH I◄◄		PREVIOUS I◄◄	
TRACK SEARCH ►►I		NEXT ►►I	
SEARCH ◄◄		REV ◄◄	
SEARCH ►►		FWD ►►	
JOG MODE VINYL	VINYL	JOG MODE	
TEMPO ±6/±10/±16/WIDE		TEMPO RANGE	
MASTER TEMPO	MASTER TEMPO	MASTER TEMPO	
JOG TOUCH		JOG TOUCH SW	
TEMPO		SLIDER VOLUME ▮ MARK Increase and decrease (10 points)	
JOG (FWD ROTATE)		JOG ▮ MARK Right movement (10 points by one rotation)	
JOG (REV ROTATE)		JOG ▮ MARK Left movement (10 points by one rotation)	
USB STOP	USB Access	USB STOP	
BACK			Color pattern-changes. (Refer to the color pattern display of LCD)
TAG TRACK/REMOVE			Color pattern-changes. (Refer to the color pattern display of LCD)
Rotary selector (SW)		ENCODER PUSH	
Rotary selector (FWD ROTATE)		ENCODER ▮ MARK Right movement (Max 10 points)	
Rotary selector (REV ROTATE)		ENCODER ▮ MARK Left movement (Max 10 points)	

*1: STANDBY-LED is turned on only here.

Color pattern display of LCD

When pressing the TAG-TRACK button from above status indication more and send a screen, display the six kinds of color patterns to LCD as follows.
If the BACK button is pushed, a display will return a previous page.



Confirmation of the Touch display operation

Display LCD color patterns, as mentioned above, then select an all-black screen.
Touch the screen and verify that a plus sign lights at the touched position.

[2] Check mode of the load of Jog dial

Measurement

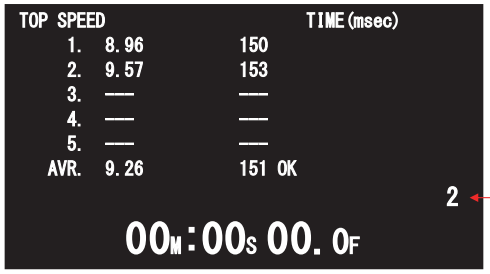
t is the mode which judges the load (light/heavy) when rotating Jog dial numerically objective.
It goes into "[1] Confirmation of the button input and a indication function", and it will become this mode if the "TEMPO slider" move to the [+] (forward) side maximumly.

It goes into this mode, and a number will be displayed if Jog dial is turned clockwise with sufficient vigor.
The meaning of the numerical value displayed is as follows.

TOP SPEED: Top speed (let the time of turning one rotation in 1.8 second be 1 speed)
TIME: Time taken for rotation to fall to 1.5 speed from 3 speed

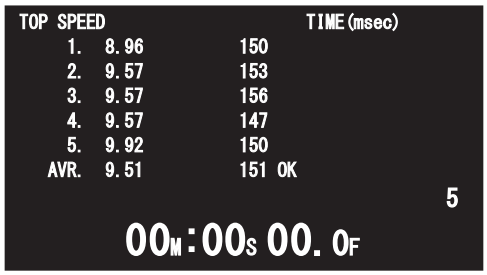
It is necessary to make it rotate top speed to 7.0 or more times to measure the rotation fall time required.
Not more than 7.0 times faster in the display " 00M:00S 00.0F " to be flashing a warning.

In addition, when it carries out continuously several times, about time, 2nd henceforth takes and displays an average of a maximum of 99 times.
Measurement which absorbed variation by this can be performed.

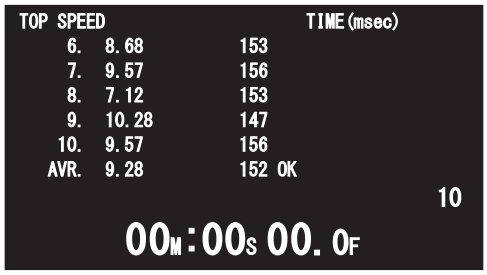


When you measured twice.

The numerical value written to the right end shows the number of times of an input.



When you measured 5 times.



When you measured 10 times.

Measurement to 99 times and calculation of average value can be performed by the highest.

Judgment result

If time is in a certain uniformity range, I display it with "OK" in the line of title, but display "NG" if I do not enter.
This judgment value is 100 ± 15 msec.

Record of a judgement

If USB memory is inserted and MASTER TEMPO button is pushed, a measurement result can write out as a CSV file of the name "JOGLOAD_XDJ-700.CSV."
In addition, data is added whenever it pushes MASTER TEMPO button.
Moreover, the MAC address is filled in as solid identification.

● MAC_ADDR:00-E0-36-00-84-40

NO.	TOP SPEED	TIME(msec)
1	7.71	138
2	8.17	138
3	7.61	138
4	9.25	141
5	8.81	135
6	8.41	138
7	8.68	141
8	7.12	141
9	8.17	138
10	8.68	135
11	8.17	138
12	8.54	132
13	7.82	135
AVR	8.24	137(NG)

(judge : 85 ms <= Time <= 115 ms)

[3] Indication of various information

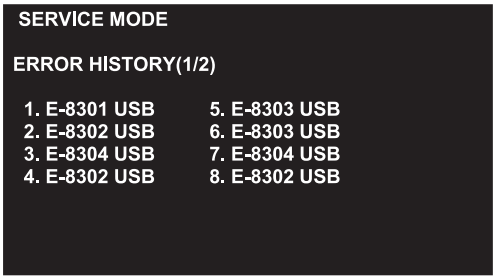
If a power supply is switched on, pushing "PLAY/PAUSE ►/II" "TRACK SEARCH I◄◄" button simultaneously with a button, it will be displayed on LCD display part as "SERVICE MODE", and will go into this mode.
(Please continue pushing until "Pioneer LOGO"screen disappears.)
It goes into this mode, and if a TAG-TRACK button is pushed and a screen is sent, the contents of a display will change as follows. Moreover, it can return with BACK button.

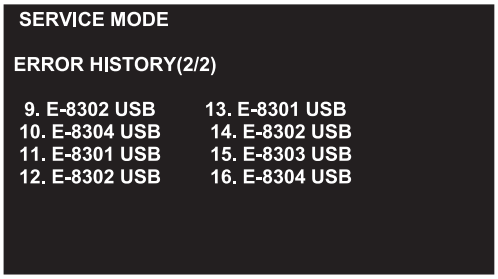
① Version information

The version number of CPU/microcomputer carried in this machine is displayed.
Simultaneously, the MAC Address of Ethernet built in this unit, destinetion code and serial number are also displayed.

MAIN : The CPU which controls a main
PANEL : The microcomputer which controls a button input.
DSP : Audio DSP

② Error history



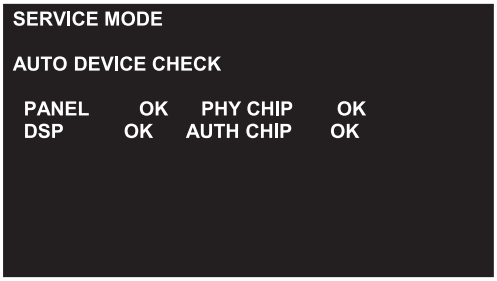


16 pieces are divided into two screens and the error history generated in the past is displayed. “1” becomes the newest error code.
The 16 newest pieces are displayed.
The screen is selected with the BACK button or TAG TRACK button.
Moreover, the item which follows an error code expresses a media. (The error which is not related to media is blank.)

USB : USB device (MEMORY/HDD)
LINK : Linked media

About contents of an error code, please refer to "[4] Error display list".

③ Auto device diagnosis

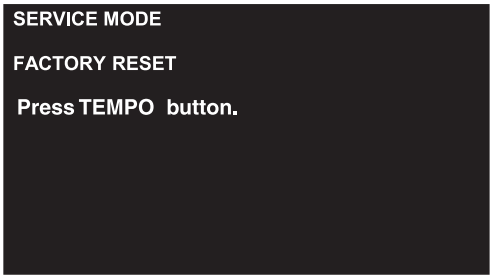


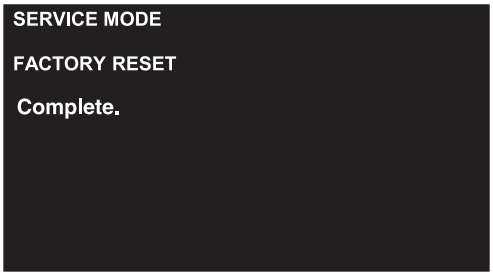
The result which judged normal/abnormalities of each device is displayed at the time of power supply ON and initialization.

PANEL : The microcomputer which controls a button input.
DSP : Audio DSP
PHY CHIP : The controller which controls the physical layer of Ethernet.
AUTH CHIP : The authentication tip of Apple.

Please refer to "[6] Output of the alarm port" for details.

④ Factory reset





It is used to return the contents set up by UTILITY to a factory-shipments state, or clear an error history.
If TEMPO button is pushed on this screen, it will return to the following states.

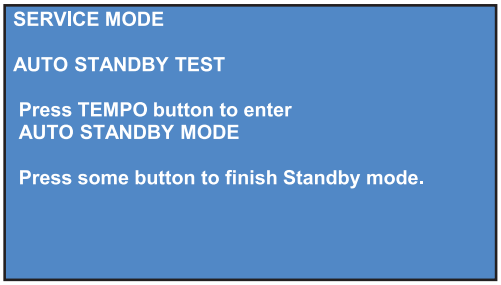
<<UTILITY>>
- PLAY MODE = CONTINUE
- LOAD LOCK = UNLOCK
- AUTO CUE LEVEL = MEMORY
- SLIP FLASHING = ON
- ON AIR DISPLAY = ON
- LANGUAGE = <Shipment setting>
- HISTORY NAME = "HISTORY"
- PLAYER No. = AUTO
- MIDI CHANNEL = 1
- AUTO STANDBY = ON
- LCD BRIGHTNESS = 3
- SCREEN SAVER = ON
- DUPLICATION = DEFAULT

<<The state of a key>>
- TIME MODE = REMAIN
- AUTO CUE = OFF
- JOG MODE = CDJ
- QUANTIZE = ON

<<Error history>>
ALL CLEAR

Switching on a power supply can also perform, pushing a USB-STOP button and TAG TRACK button simultaneously, in order to perform Factory reset.
However, an error history is not cleared at this time.

⑤ A check of auto standby



Usually, there are no media to reproduce, and when prolonged operation is not performed, it shifts to the auto standby mode.
However, in this mode, it can shift to the auto standby mode immediately.
Press the TEMPO button to enter AUTO STANDBY mode.
If operation excluding the following from the state of being in the auto standby mode is performed,
- Push the USB STOP button
- JOG rotation (except for touching the Table top)
- Turn the TOUCHR/ELEASE volume
- Move the TEMPO slider

It will return from the auto standby mode.

Since a return is the same processing as power supply ON, the service mode is ended.

[4] Error display list

WAVE display shows "E-XXXX: DISC DRIVE ERROR".
Note: An alarm port is a function which outputs a pulse from the test port of SH and tells an unusual part by the number of pulses.

Error code	Display word	Contents	Notes	Alarm port correspondence
E-7010	DSP DEVICE ERROR	The DSP doesn't function normally. The program isn't available for download.		○
E-7021	PHY CHIP ERROR	The ETHER PHY doesn't function normally.		○
E-7022	PANEL CPU ERROR	The PANEL CPU doesn't function normally.	It becomes this error when communication with PANEL CPU is not materialized in the abnormalities in wire connection etc. It becomes this error when update of PANEL CPU goes wrong.	○
E-7024	MAIN CPU ERROR	The MAIN CPU doesn't function normally.	It becomes this error when update of MAIN CPU goes wrong.	
E-7206	AUTH CHIP ERROR	Apple authentication tip does not operate normally.		○
E-7101	INTERRUPT EXCEPTION	The abnormalities which are not expected on a MAIN CPU occurred.		
E-8302	CANNOT PLAY TRACK	Abnormalities occurred during playback.		
E-8303	CANNOT PLAY TRACK	The error of buffer memory writing occurred.		
E-8304	UNSUPPORTED FILE FORMAT	The decoding error occurred.		
E-8305	UNSUPPORTED FILE FORMAT	It is the format which is not supported.		
E-8306	NO FILE	The registered file does not exist.		
E-8307	USB ACCESS ERROR	USB apparatus which is not supported was connected.		
E-8309	LINK ACCESS ERROR	It ended in the error of the timeout of continuation 4 times.		

[5] Output of the alarm port

Although "Normal/abnormalities of each device at the time of power supply ON and initialization" can be judged by ③ Auto device diagnosis of a "[3] Indication of various information", the test port output on a main board can also be checked. When a defect is detected by the device by power supply ON, an alarm port performs the following pulse outputs.

	Alarm Port			Service Mode/Auto Device Diagnostic Display		Normal Error Display
	Detection	Remarks	Output Pattern	Display	Remarks	
MAIN CPU						
FLASH (for MAIN CPU)	×	If FLASH is NG, the boot program itself does not operate.	—	×	←	—
SDRAM (for MAIN CPU)	○	—	(0.5sHI->0.5sLOW) x once ->2sLOW->Afterward,repetition	×	If SDRAM is NG, the service program itself does not operate.	—
Peripheral with built-in Main CPU						
USB-A	—	Since it is built-in MAIN CPU, it is hard to consider that peripheral one of these becomes out of condition at pinpoint. It cannot judge whether all have fault in the course to a connector.	—	—		—
USB-B	—		—	—	←	—
LAN	—		—	—		—
External peripheral						
ETHER PHY	○	—	(0.5sHI->0.5sLOW) x 3 times ->2sLOW->Afterward,repetition	○	—	E-7021
AUTHENTICATION CHIP	○	—	(0.5sHI->0.5sLOW) x 9 times ->2sLOW->Afterward,repetition	○	—	E-7026
Device communicated with MAIN CPU						
PANEL CPU (PANEL)	○	—	(0.5sHI->0.5sLOW) x 5 times ->2sLOW->Afterward,repetition	△	Although detection is possible in communication failure, since it does not put into the service mode, a check is correctly impossible.	E-7022
DSP	○	—	(0.5sHI->0.5sLOW) x twice ->2sLOW->Afterward,repetition	○	—	E-7010
SDRAM (for DSP)	×	If SDRAM is NG, it cannot communicate with MAIN CPU.	—	×	←	—
Altogether normal	—	—	After 2sHI as LOW	—	—	—

[6] Firmware update

The device and updater file name for update is the following.

Device	File Name	Remarks
MAIN CPU (MAIN)	XDJ700M.UPD	Motorola formal text
PANEL CPU (PANEL)	XDJ700P.UPD	Motorola formal text
Two devices (one conclusion)	XDJ700.UPD	Motorola formal text

A version is not contained in a file name.
Moreover, "XDJ700.UPD" which connected two files can be read.

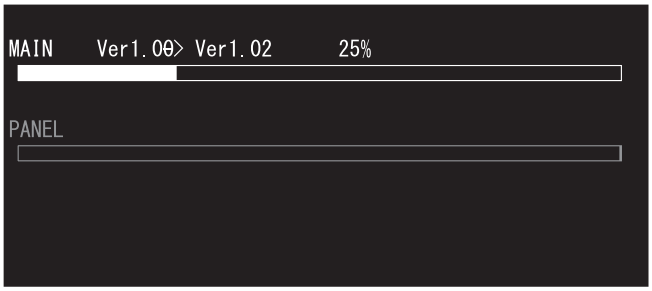
■ When USB memory is used

Please use USB memory formatted by FAT/FAT32. It does not correspond to HFS+.

① A file to update is copied to USB memory.
(One files will be copied if it is one pieces. Two files will be copied if it is two pieces. … (It is one file if it is "XDJ700.UPD"))

② Please turn on a power supply, pushing both the buttons of LOOP IN and RELOOP./EXIT (Please continue pushing until "Pioneer LOGO" screen disappears.)
It is displayed the message of "Connect a USB storage device to the USB port.", USB memory is inserted in USB port of the front or the back.
(If USB memory is put and it goes into the mode, a message will not be displayed but update will start immediately.)

③ Update is automatically performed in the order of "MAIN -> PANEL".
The status is displayed with the bar graph and % as follows during update. Moreover, an old version and a new version are also displayed.



④ When there is no file, gray out of the display of the device is carried out, and update is not performed.
And, %-display is a standard and is not exact.

⑤ Since the message of "Firmware update is completed.Turn the power off before using." will be displayed if update is completed, please return on a power supply.

■ Recovery when failing

When update of each CPU goes wrong and the power supply has been turned off on the way, subsequent normal operation becomes impossible. In this case, the recovery (emergency) mode which only updates operates.

① Failure of a MAIN
When the message of "MAIN firmware update failed." is displayed or the power supply has been turned off on the way, if a power supply is returned on again, the error code of "MAIN CPU ERROR" will be displayed.
In this case, update will be possible if you insert USB memory in the USB port.
In addition, only MAIN is updated even if files other than MAIN are in USB memory.
(This is because provision of a FLASH ROM in which a specific MAC address has been written is not possible.
For details, see section "1.3 SERVICE NOTICE_■ About the Flash ROM (IC3) in the MAIN Assy").

② Failure of a PANEL
When the message of "PANEL firmware update failed." is displayed or the power supply has been turned off on the way, if a power supply is returned on again, the error code of "E-7022: PANEL CPU ERROR" will be displayed.
In this case, how to the update mode to enter differs from usual.
Please continue pushing a button until it turns on a power supply and the message of "Connect a USB storage device to the USB port." is displayed, pushing only a USB-STOP button.
In addition, if files other than PANEL are contained in USB memory, it will usually pass and all they will be updated.

6.2 ABOUT THE DEVICE

Device Name	Function	Part No.	Ref No.	Ref No.
MAIN CPU	Main control	R8A77240D500BG2	IC8	MAIN Assy
FLASH	Memory for MAIN CPU (Firmware)	DYW**** (*NSP)	IC13	MAIN Assy
DDR2	Memory for MAIN CPU (Work)	M14D51216322R5BG2K	IC11, IC14	MAIN Assy
DSP	Audio DSP	D810K013DZKB400	IC301	MAIN Assy
SDRAM	Memory for DSP (Work)	M12L2561616A-5TG2S	IC302	MAIN Assy
ETHER PHY	PHY for LINK	LAN8720A-CP	IC1203	MAIN Assy
AUTHENTICATION CHIP	The authentication of Apple.	H337S3959	IC2	MAIN Assy
PANEL CPU	Button input, LED & JOG FL control	DYW****	IC2001	PNLB Assy

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

Two or more FLASH and SDRAM are mounted in the main unit.
Please diagnose it after confiming whether it is a device that agrees with purpose again.

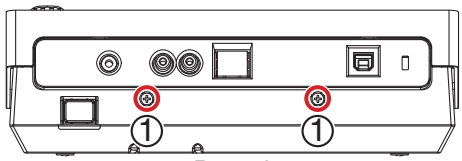
7. DISASSEMBLY

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.

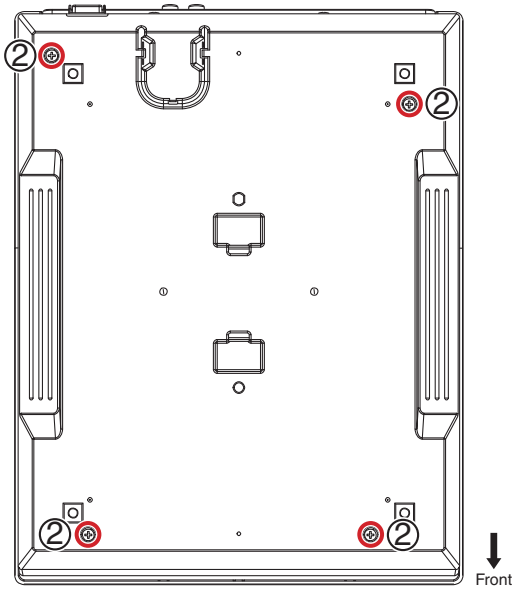
Disassembly

[1] Bottom Section

(1) Remove the 2 screws.
(BBZ30P060FTB)
(2) Remove the 4 screws.
(BPZ30P080FNI)

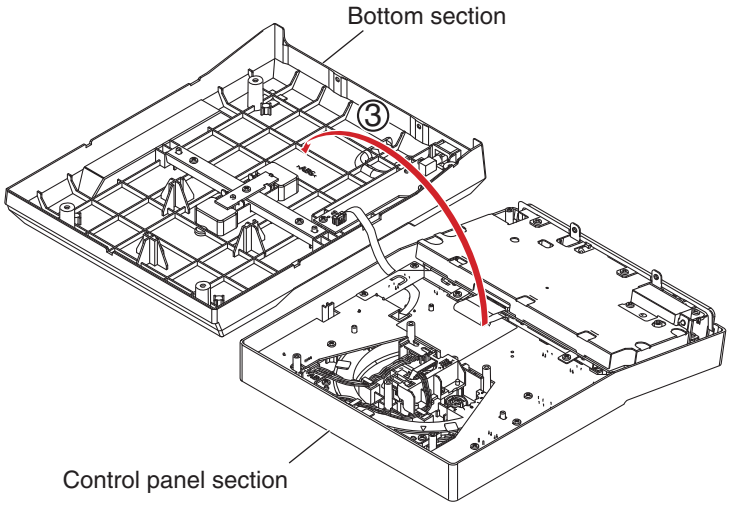


• Rear view



• Bottom view

(3) Remove the Bottom section.

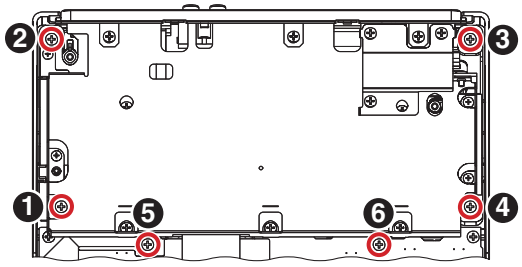


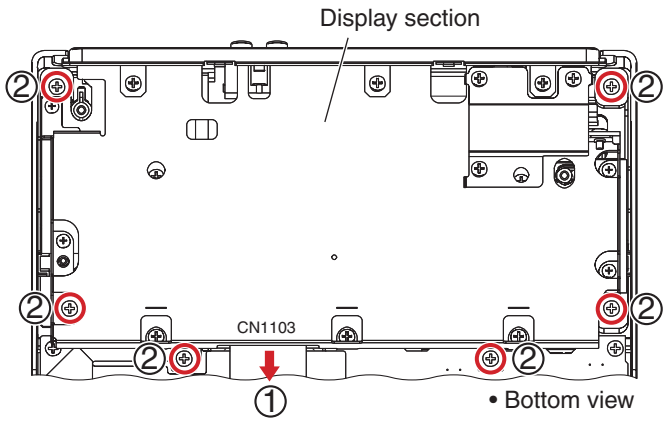
[2] Display Section

[2-1] Display section

(1) Disconnect the 1 flexible cable.
(CN1103)
(2) Remove the Display section, by removing the 6 screws.
(BPZ30P080FNI)

Screw tightening order

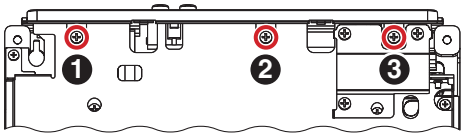


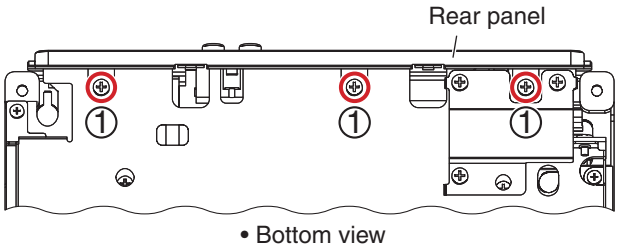


[2-2] Rear panel

(1) Remove the Rear panel, by removing the 3 screws.
(BBZ30P060FTB)

Screw tightening order

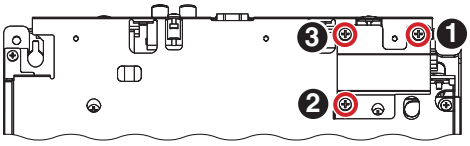


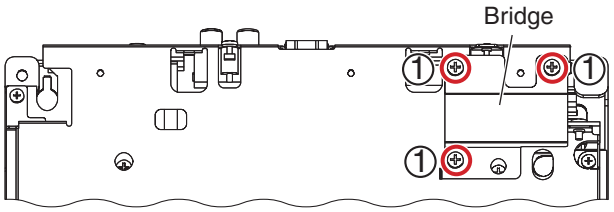


[2-3] USBA Assy

(1) Remove the Bridge, by removing the 3 screws.
(BBZ30P060FTB)

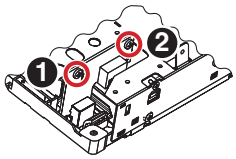
Screw tightening order

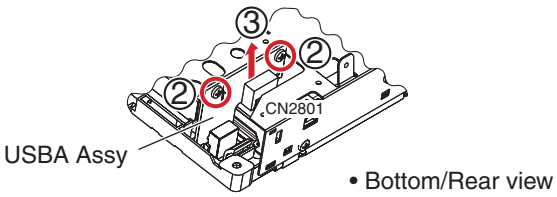




(2) Remove the 2 screws.
(BBZ30P060FTB)
(3) Remove the USBA Assy, by disconnecting the 1 BtoB connector.
(CN2801)

Screw tightening order

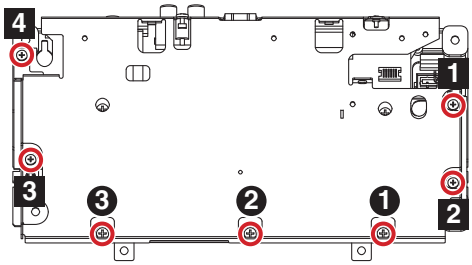


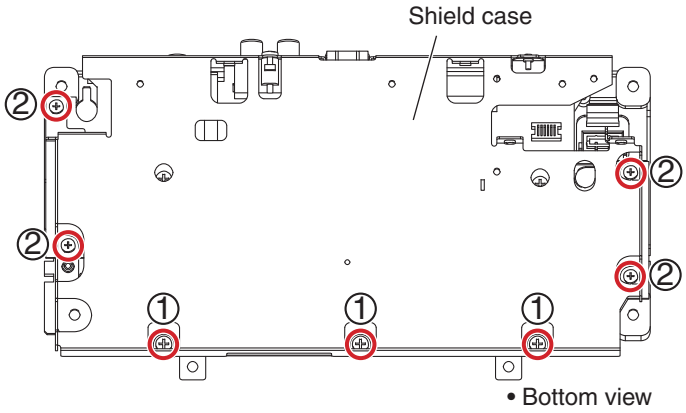


[2-4] Shield case

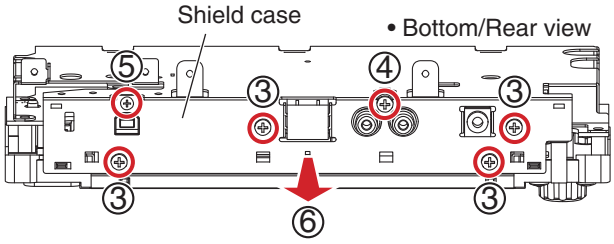
(1) Remove the 3 screws.
(BBZ30P060FTB)
(2) Remove the 4 screws.
(BPZ26P080FTC)

Screw tightening order

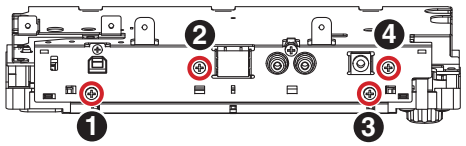




(3) Remove the 4 screws.
(BBZ30P060FTB)
(4) Remove the 1 screw.
(BPZ30P080FNI)
(5) Remove the 1 screw.
(DBA1340)
(6) Remove the Shield case.



Screw tightening order

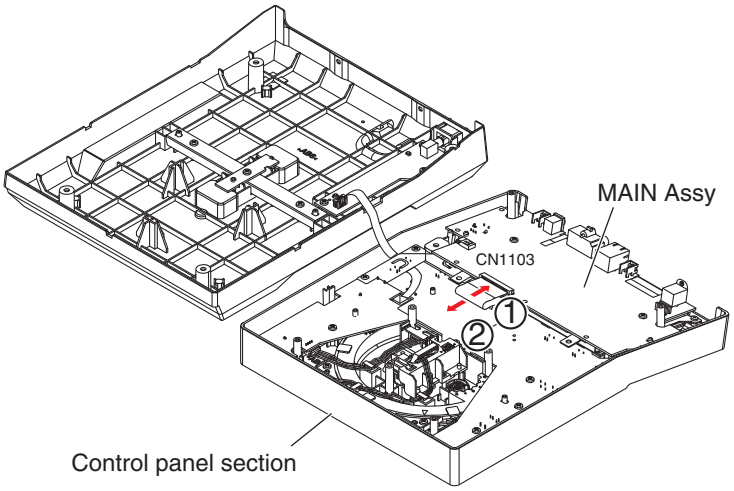


[2-5] Diagnosis

(1) Reconnect the 1 flexible cable.
(CN1103)

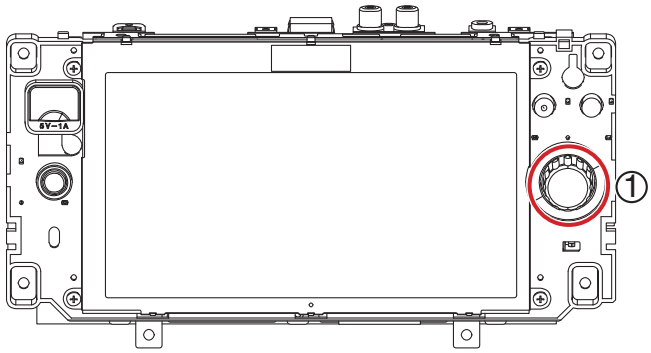
Diagnosis

(2) Disconnect the 1 flexible cable.
(CN1103)



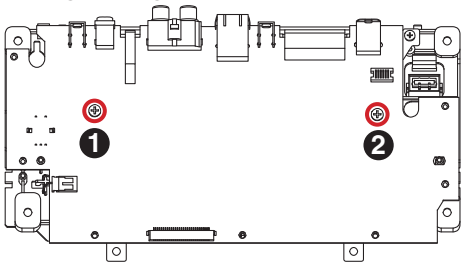
[2-6] MAIN Assy

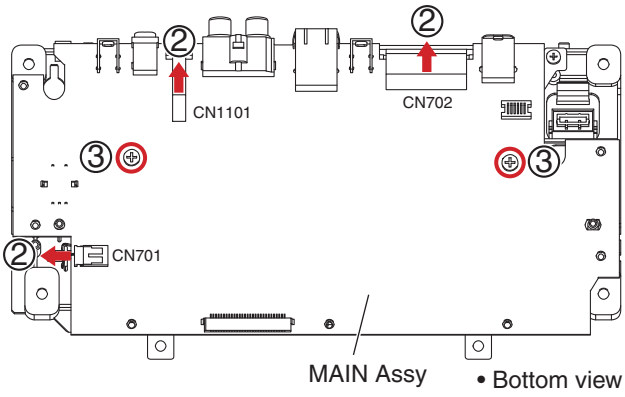
(1) Remove the Dial knob.



(2) Disconnect the 2 flexible cables and the 1 connector.
(CN701, 702, 1101)
(3) Remove the MAIN Assy, by removing the 2 screws.
(BBZ30P060FTB)

Screw tightening order

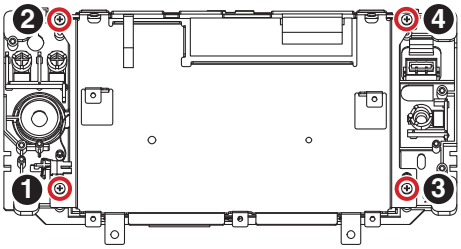


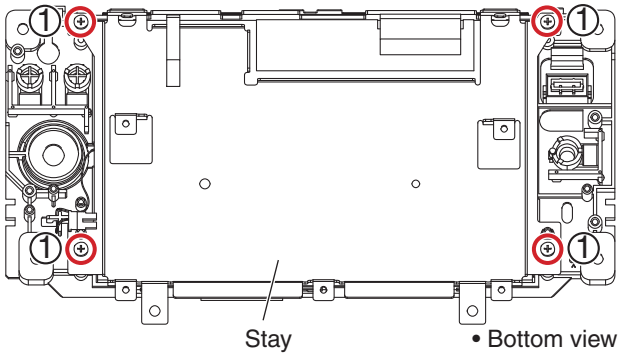


[2-7] TFT LCD

(1) Remove the Stay, by removing the 4 screws.
(BPZ26P080FTC)

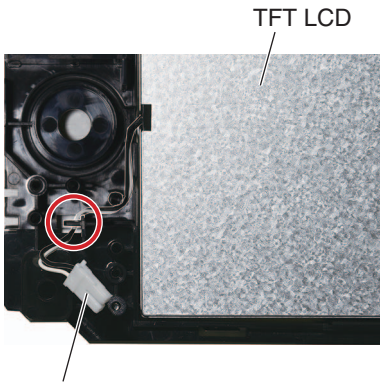
Screw tightening order

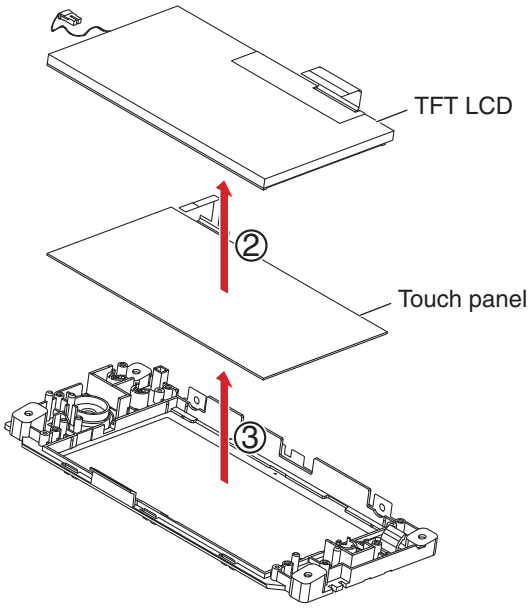




(2) Remove the TFT LCD.
(3) Remove the Touch panel.

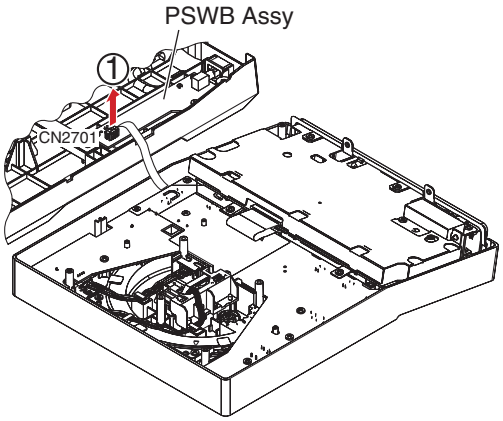
Jumper wire styling



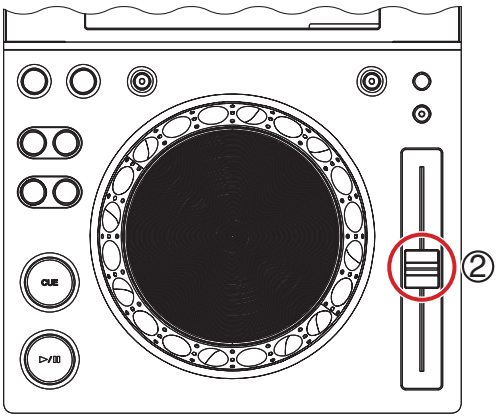


[3] PNLB Assy

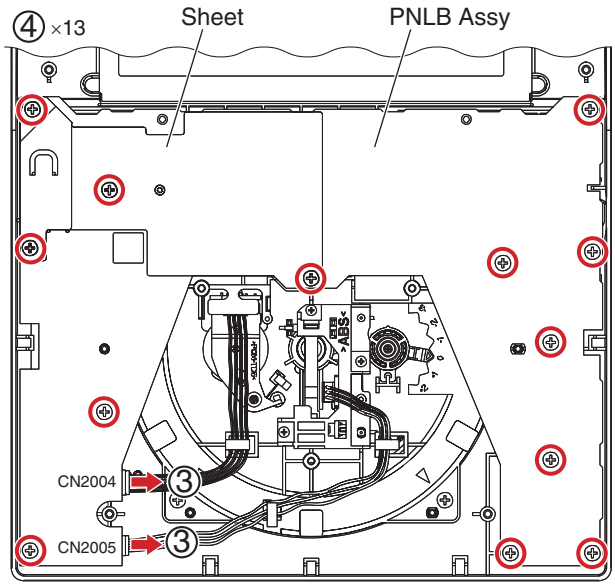
(1) Disconnect the jumper wire. (CN2701)



(2) Remove the Knob/SLD.



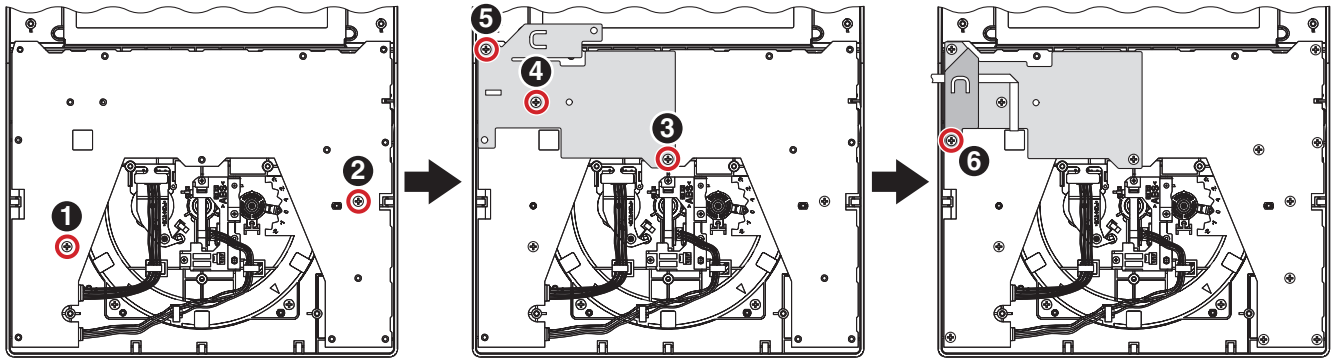
(3) Disconnect the 2 connectors.
(CN2004, 2005)
(4) Remove the PNLB Assy with Sheet, by removing the 13 screws.
(BPZ30P080FNI)



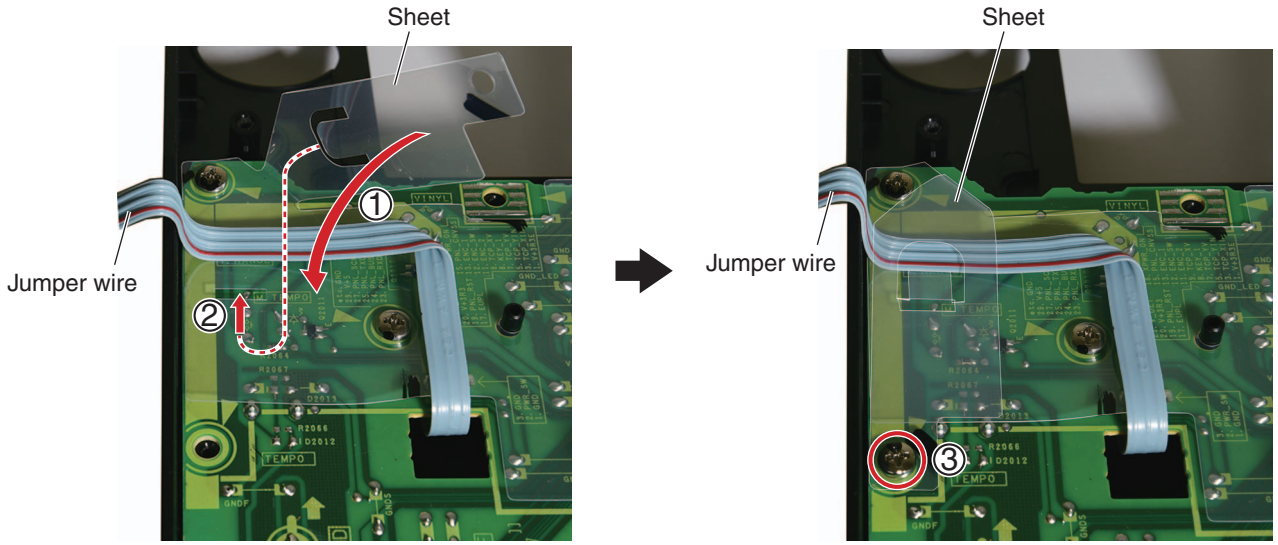
• Bottom view

Screw tightening order

The other screws are random order.



■ Jumper wire and Sheet styling

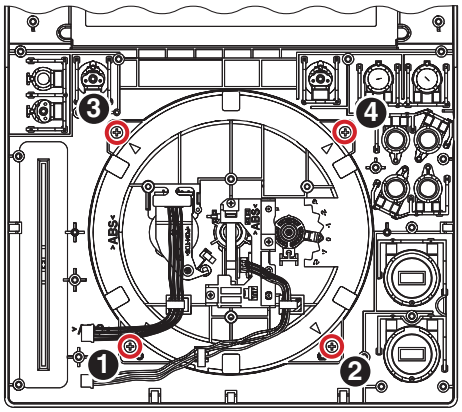


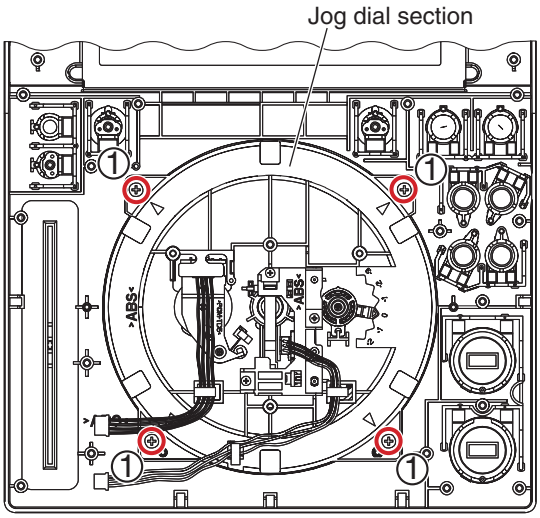
[4] Jog Dial Section

[4-1] Jog Dial Section

(1) Remove the Jog dial section, by removing the 4 screws.
(BPZ30P080FNI)

Screw tightening order

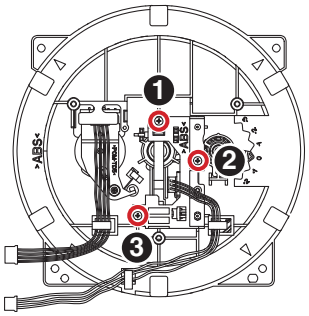


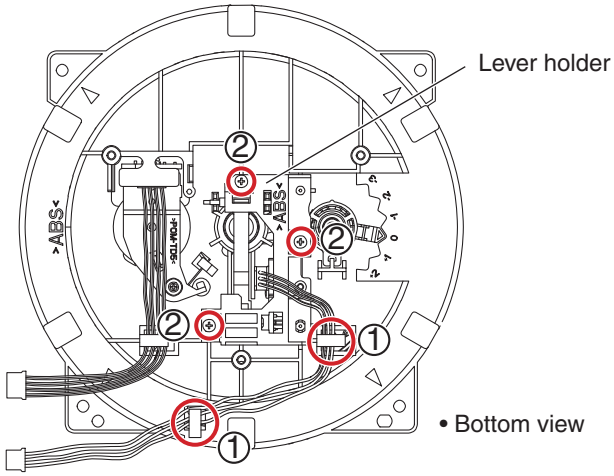


[4-2] TCHB Assy

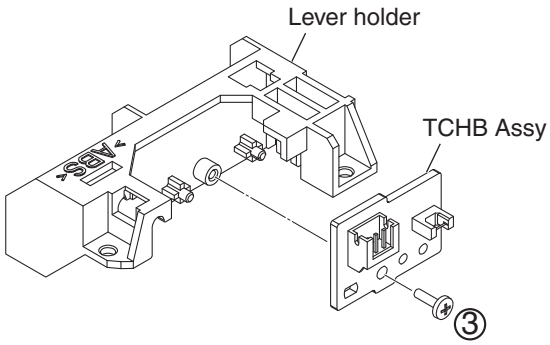
(1) Release the jumper wire from the 2 hooks.
(2) Remove the Lever holder with PC board, by removing the 3 screws.
(BPZ20P060FTC)

Screw tightening order



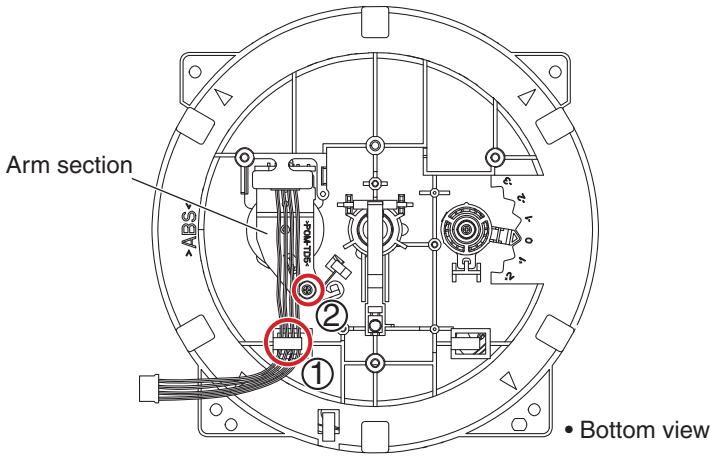


(3) Remove the TCHB Assy, by removing the 1 screw.
(BPZ20P060FTC)

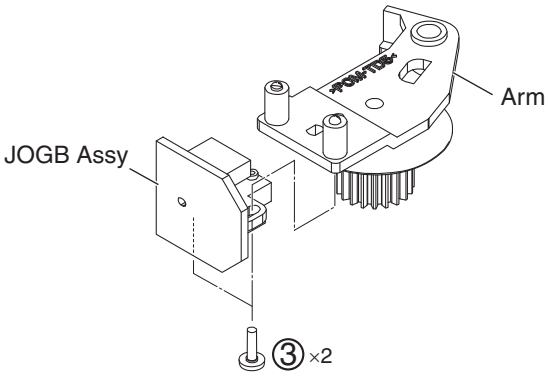


[4-3] JOGB Assy

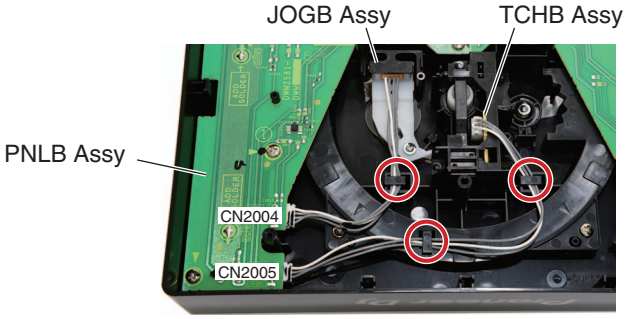
(1) Release the jumper wire from the 1 hook.
(2) Remove the Arm section with PC board, by removing the 1 screw.
(DBA1265)



(3) Remove the JOGB Assy, by removing the 2 screws.
(BPZ20P060FTC)



■ Jumper wires styling



8. EACH SETTING AND ADJUSTMENT

8.1 NECESSARY ITEMS TO BE NOTED

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

• MAIN Assy	⇒ • Confirmation of the version of the firmware • Updating to the latest version of the firmware • Writing the serial number of the unit. • Confirmation of the touch display operation* • Restoring the data of user-settable items (if possible)
• PNLB Assy (PANEL CPU: IC2001)	⇒ • Confirmation of the version of the firmware • Updating to the latest version of the firmware
• Jog dial section component	⇒ • JOG DIAL ROTATION LOAD ADJUSTMENT
• Touch panel	⇒ • Confirmation of the touch display operation*

*: For confirmation of the touch display operation, refer to "Confirmation of the Touch display operation" in "[1] Confirmation of the button input and an indication function" of "6.1 SERVICE MODE."

8.2 FIRMWARE UPDATE / RECOVERY

For details on updating of firmware and recovery of the main unit, see [6] UPDATING OF FIRMWARE in “6.1 SERVICE MODE.”

8.3 WRITING THE SERIAL NUMBER OF THE UNIT

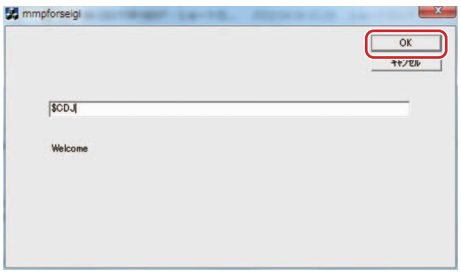
Writing the serial number can be performed from a PC that is connected with this unit via a USB B cable.

Preparations

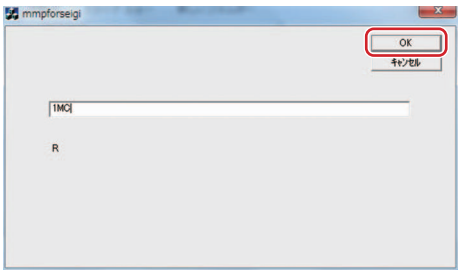
① Download the software for writing the serial number (GGS1177) from Niis.
② Unzip GGS1177 then store the two unzipped files (mmpforseigi.exe and hidcom.dll) in the PC.
Create a new folder at a place of your preference, such as the desktop, to store those files.

Procedure

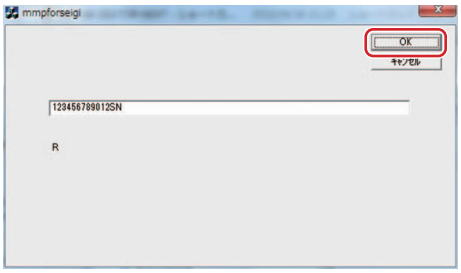
① Connect the unit with a PC via a USB B cable.
② Start the writing software, by double-clicking on mmpforseigi.exe.
③ Enter a "$CDJ" command then click on OK.



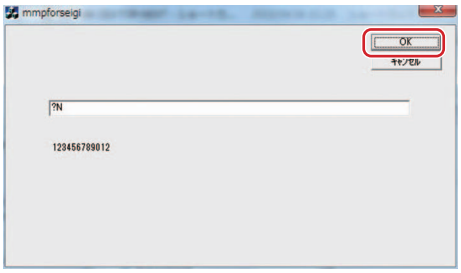
④ Enter a "1MC" command then click on OK.



⑤ Enter an "xSN" ("x" denotes a 12-digit serial number printed on the label) command then click on OK.



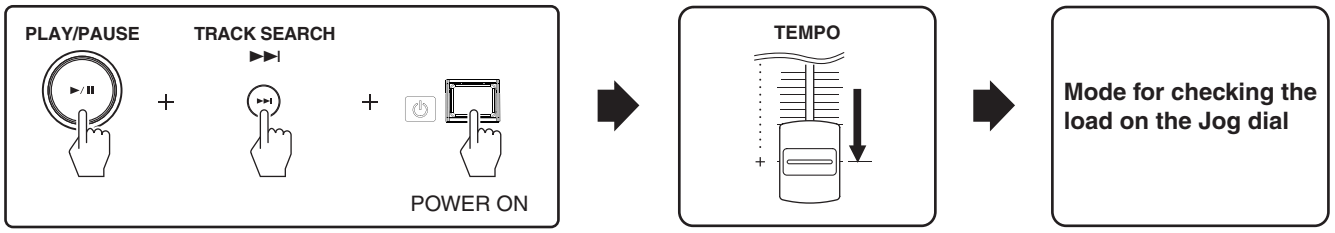
⑥ Enter a "?N" command then click on OK to check the serial number.



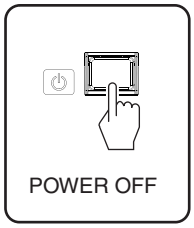
8.4 JOG DIAL ROTATION LOAD ADJUSTMENT

JOG Check Mode : ON

• It is the mode which judges the load (light/-- heavy) numerically when rotating the Jog dial.



JOG Check Mode : CANCEL



Adjustment

The adjustment value of Cam plate should be adjusted to "0". (See Fig. 1)

Inspection

① Rotate the Jog dial more than 5 times before inspection. The inspection shall be done after running-in rotation.

② Enters the mode for checking the load of Jog dial
⇒ Turn on the power while pushing the "PLAY/PAUSE (►/II) " and "TRACK SEARCH (►►I)" buttons.
Next, move the "TEMPO slider" to the [+] (forward) side maximumly.

③ Rotate the Jog dial at high speedy. The direction of the rotation is clockwise.

④ "TOP SPEED" and "TIME (msec)" are displayed in LCD display. (See Fig. 2)
The time of the rotation speed decreasing from X3 to X1.5 ("Rotation decreasing time") is measured only when the "Top speed" is X7 or more.
Confirm the average of 5 times of "Rotation decreasing time" is in spec.
SPEC : 100 ± 15 (msec)

⑤ If "Rotation decreasing time" is not in spec, change the adjustment value of Cam plate.
And do above-mentioned inspection ②, ③ and ④ again.

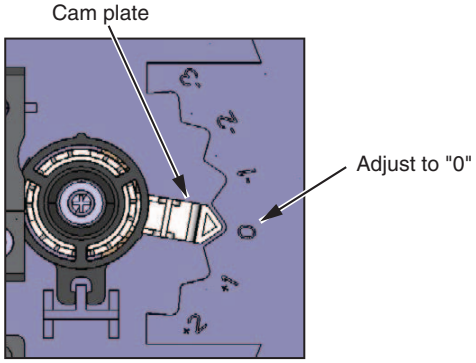


Fig. 1

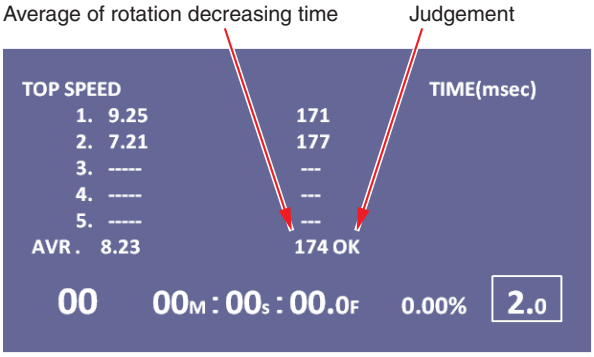


Fig. 2 (Example of displaying LCD)

[Load adjustment method]

• When smaller than 85 msec. ⇒ Adjust the Cam plate to minus"-" side. (To decrease the load)
• When bigger than 115 msec. ⇒ Adjust the Cam plate to plus"+" side. (To increase the load)

8.5 ITEMS FOR WHITCH USERS SETTING IS AVAILABLE

This unit is provided with user-settable items, as shown below.
Although no serious operational problems occur even if data for such user-settable items are cleared during repair, it is recommended that you back up those settings before starting repair.
For backup of the user settings, use a USB memory device.
If the corresponding part or board Assy is replaced for repair, restore the backed-up user settings.
(For details, see "■ How to Back Up and Restore the Settings.")
If backup of user settings is not possible, when returning the repaired product be sure to tell the customer that the Utility settings have been cleared and will have to be reset, as required.

Item for Which User's Setting is Available	Setting Value (The factory default settings are indicated in bold.)	Part No.	Content to be Stored
PLAY MODE	**CONTINUE**/SINGLE	IC13 (MAIN Assy)	UTILITY setting
LOAD LOCK	LOCK/**UNLOCK**		
AUTO CUE LEVEL	-36 dB / -42 dB / 48 dB / -54 dB / -60 dB / -66 dB / -72 dB / -78 dB / **MEMORY**		
SLIP FLASHING	**ON**/OFF		
ON AIR DISPLAY	**ON**/OFF		
LANGUAGE	Destination		
HISTORY NAME	—		
PLAYER No.	**AUTO**, 1 - 4		
LINK STATUS	—		
MIDI CHANNEL	**1** - 16		
AUTO STANDBY	**ON**/OFF		
LCD BRIGHTNESS	1 - **3** - 5		
TOUCH DISPLAY CALIBRATION	—		
SCREEN SAVER	**ON**/OFF		
DUPLICATION	**DEFAULT**, ALL, PLAYER1 - 4		
TIME MODE	TIME/**REMAIN**	IC13 (MAIN Assy)	Statuses of keys
AUTO CUE	ON/**OFF**		
JOG MODE	**CDJ**/VINYL		
TEMPO RANGE	±6 , **±10** , ±16 , WIDE		
MASTER TEMPO	ON/**OFF**		
QUANTIZE	**ON**/OFF		
BEAT SYNC	ON/**OFF**		

■ How to Back Up and Restore the Settings

You can store the UTILITY and other settings in a USB memory device then retrieve the stored settings later.
How to store and retrieve data is described below.
(For details, refer to "Changing the Settings" in the operating instructions.)

Backup (Storing the Settings)

1. Connect the USB device onto which you want to store the settings.
2. Touch [USB].
3. Touch [MENU (UTILITY)].
4. Use the rotary selector to select and enter [SAVE] at [MY SETTINGS].

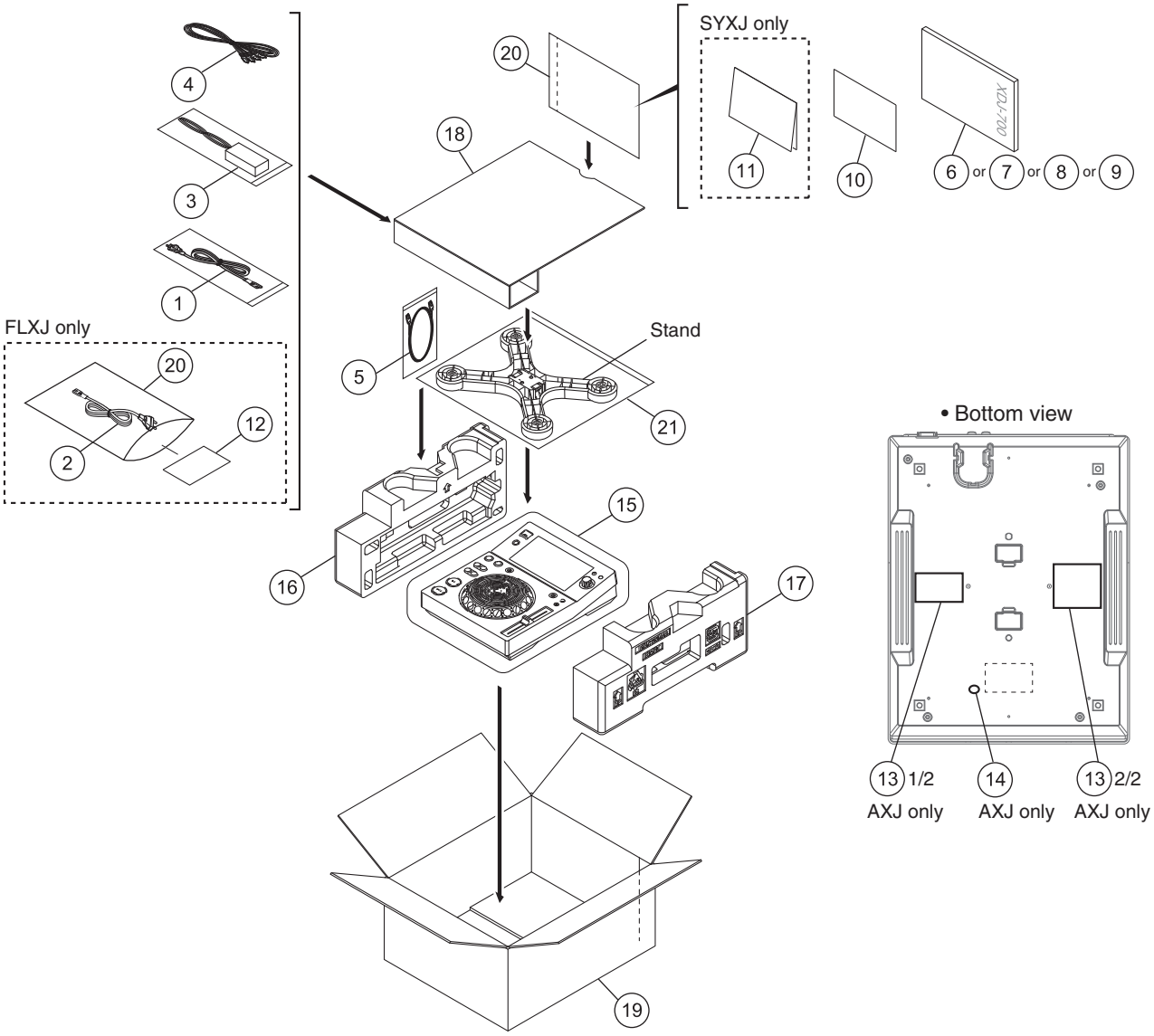
Restore (Retrieving the stored settings)

1. Sets the USB device for calling out the setting details.
2. Touch [USB].
3. Touch [MENU (UTILITY)].
4. Use the rotary selector to select and enter [LOAD] at [MY SETTINGS].

9. EXPLODED VIEWS AND PARTS LIST

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

9.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

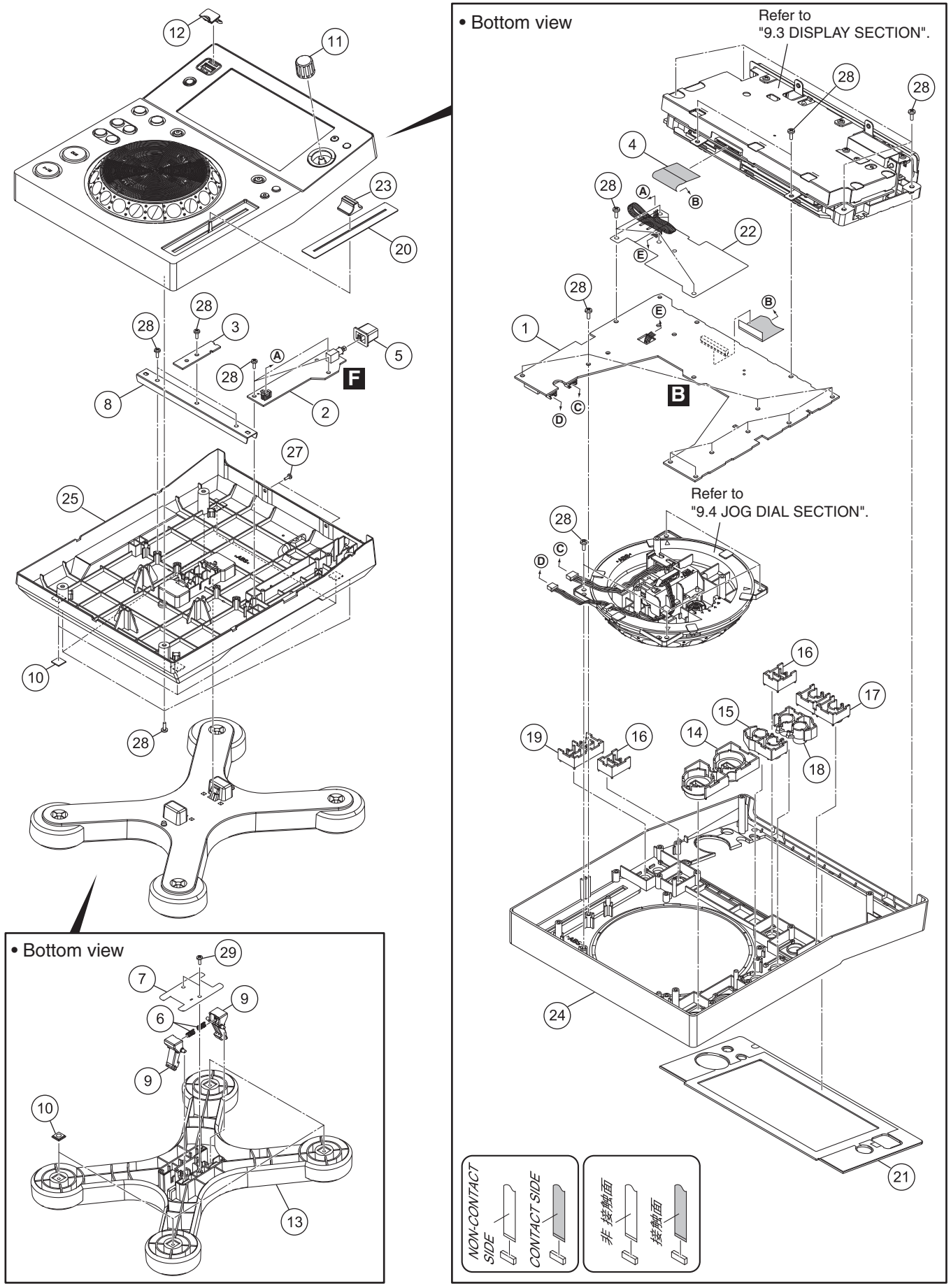
Mark	No.	Description	Part No.
⚠	1	Power Cord	See Contrast table (2)
⚠	2	Power Cord	See Contrast table (2)
⚠	3	AC Adapter	DWR1546
	4	Audio Cable	XDE3045
	5	LAN Cable	DDE1141
	6	Operating Instructions (Quick Start Guide)	See Contrast table (2)
	7	Operating Instructions (Quick Start Guide)	See Contrast table (2)
	8	Operating Instructions (Quick Start Guide)	See Contrast table (2)
	9	Operating Instructions (Quick Start Guide)	See Contrast table (2)
NSP	10	Leaflet	See Contrast table (2)
NSP	11	Warranty	See Contrast table (2)
	12	Caution Card SB	See Contrast table (2)
NSP	13	Name Label	See Contrast table (2)
NSP	14	CCC S & E Label	See Contrast table (2)
	15	Packing Sheet	AHG7053
	16	Packing Pad	DHA1933
	17	Packing Pad	DHA1934
	18	Partition	DHC1087
	19	Packing Case	See Contrast table (2)
NSP	20	Polyethylene Bag	AHG7117
NSP	21	Poly Bag	DHL1198

(2) CONTRAST TABLE

XDJ-700/UXJCB, SYXJ, FLXJ and AXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	XDJ-700 /UXJCB	XDJ-700 /SYXJ	XDJ-700 /FLXJ	XDJ-700 /AXJ
⚠	1	Power Cord	XDG3052	ADG1154	ADG1154	ADG7079
⚠	2	Power Cord	Not used	Not used	ADG7097	Not used
	6	Operating Instructions (Quick Start Guide)(En)	DRH1313	Not used	Not used	Not used
	7	Operating Instructions (Quick Start Guide) (En, Fr, De, It, Nl, Es, Pt,Ru)	Not used	DRH1314	Not used	Not used
	8	Operating Instructions (Quick Start Guide)(En, Es, Zhtw)	Not used	Not used	DRH1315	Not used
	9	Operating Instructions (Quick Start Guide)(Zhcn)	Not used	Not used	Not used	DRH1316
NSP	10	Leaflet	DRH1275	DRH1275	DRH1275	DRH1274
NSP	11	Warranty	Not used	ARY7158	Not used	Not used
	12	Caution Card SB	Not used	Not used	ARM7064	Not used
NSP	13	Name Label	Not used	Not used	Not used	DAL1290
NSP	14	CCC S & E Label	Not used	Not used	Not used	DRW2310
	19	Packing Case	DHG3431	DHG3430	DHG3432	DHG3434

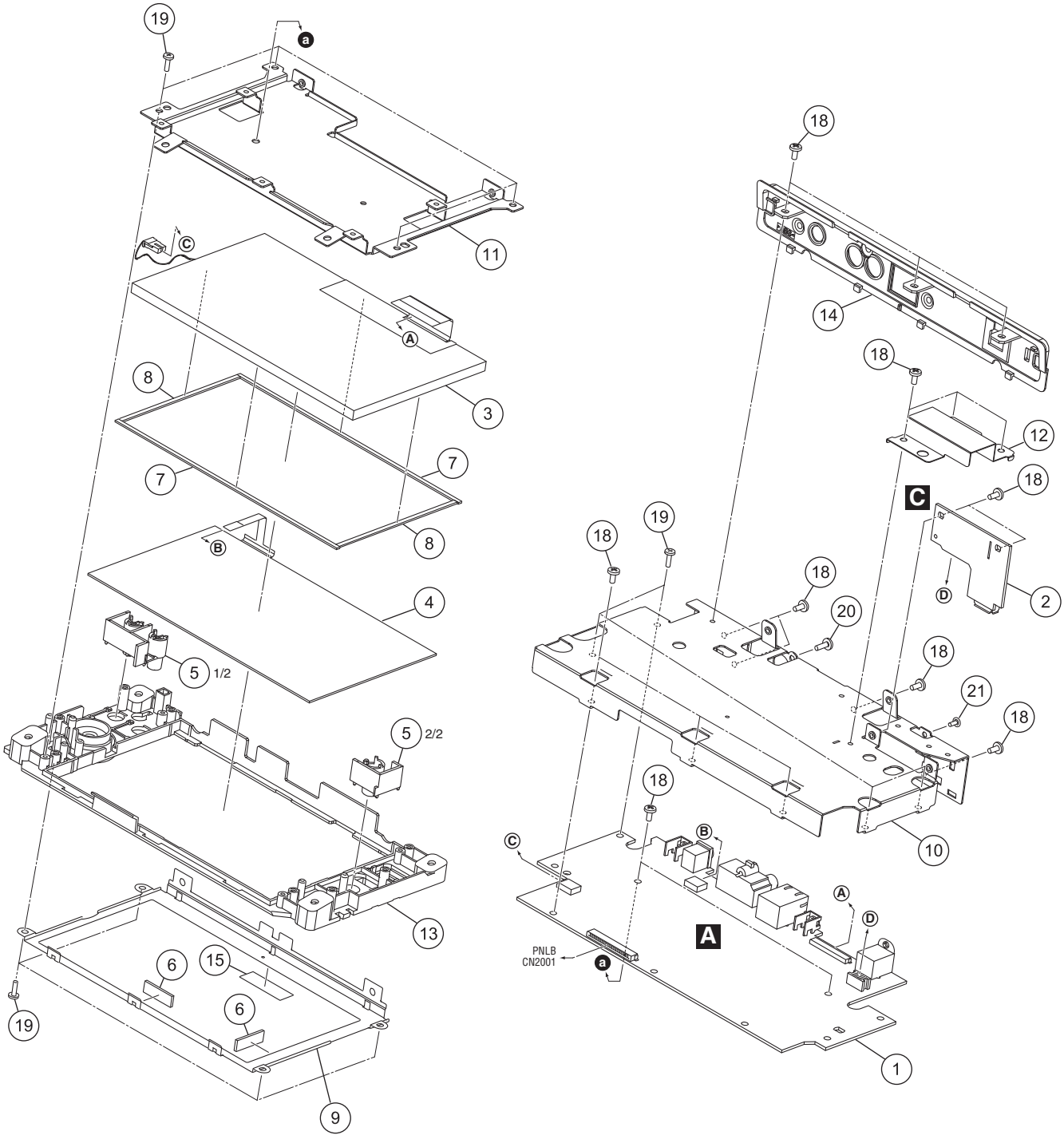
9.2 EXTERIOR SECTION



EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	PNLB Assy	DWX3745
	2	PSWB Assy	DWX3748
	3	TXLB Assy	DWX3750
	4	FFC	DDD1725
	5	Power Knob	DAC2306
	6	Coil Spring	DBH1811
	7	Cover	DEC3623
	8	Stay	DNF1970
	9	Hook	DNK6529
	10	Rubber Foot	VEB1349
	11	Dial Knob	DAA1259
	12	Cover/USB	DNK6041
	13	Leg	DNK6526
	14	Play Button	DAC2682
	15	Button/SRC	DAC3028
	16	Button/REL	DAC3030
	17	Button/LOP	DAC3074
	18	Button/TSR	DAC3076
	19	Button	DAC3146
	20	Slide Sheet 1C	DAH2404
	21	Panel	DAH3056
	22	Sheet	DEC3624
	23	Knob/SLD	DNK5981
⚠	24	Control Panel	DNK6527
⚠	25	Chassis	DNK6521
	26	. . . . .	
	27	Screw	BBZ30P060FTB
	28	Screw	BPZ30P080FNI
	29	Screw	BPZ30P080FTB

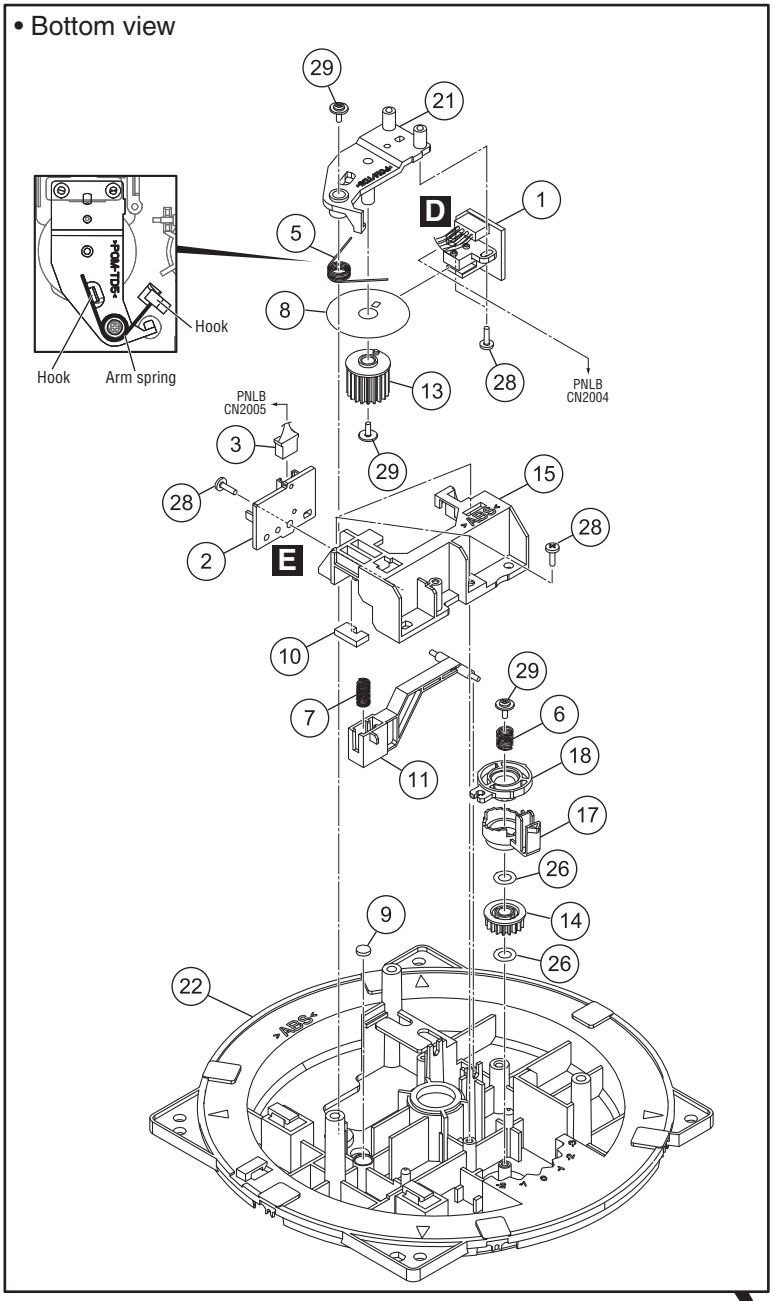
9.3 DISPLAY SECTION

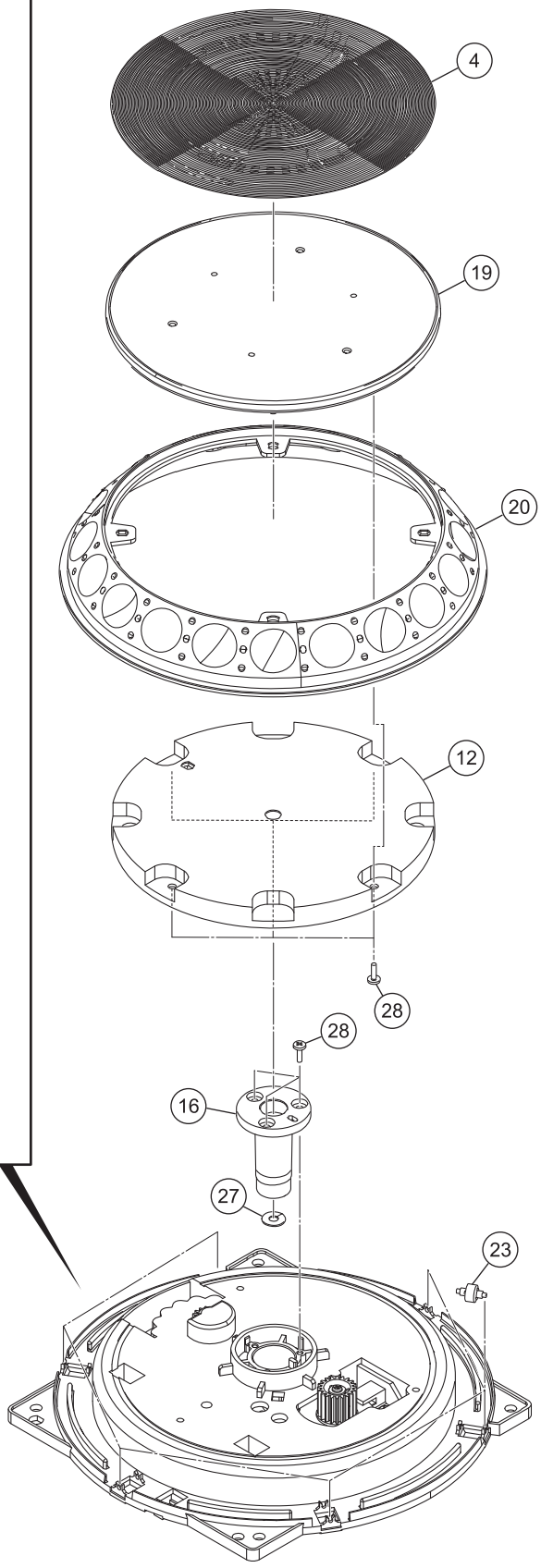


DISPLAY SECTION PARTS LIST

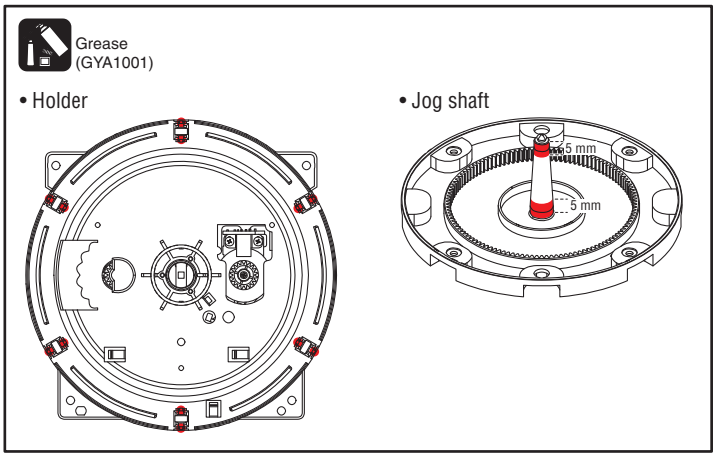
Mark	No.	Description	Part No.
	1	MAIN Assy	DWX3744
	2	USBA Assy	DWX3749
	3	TFT LCD	CWX4352
	4	Touch Panel	DSX1130
	5	Button	DAC3145
	6	Packing/LCD	DEC3565
	7	Packing/L	DEC3568
	8	Packing/S	DEC3569
	9	Bracket	DNH3234
	10	Shield Case	DNH3235
	11	Stay	DNH3236
	12	Bridge	DNH3242
	13	Base	DNK6525
	14	Rear Panel	DNK6528
	15	Tape	DEC3655
	16	. . . . .	
	17	. . . . .	
	18	Screw	BBZ30P060FTB
	19	Screw	BPZ26P080FTC
	20	Screw	BPZ30P080FNI
	21	Screw (M3*5)	DBA1340

9.4 JOG DIAL SECTION





■ Locations of grease application / グリス塗布位置



JOG DIAL SECTION PARTS LIST

Mark No.	Description	Part No.
1	JOGB Assy	DWX3746
2	TCHB Assy	DWX3747
3	Connector Assy	PF03PP-B17
4	Plate	DAH3058
5	Arm Spring	DBH1612
6	Load Spring	DBH1676
7	Lever Spring	DBH1726
8	Encorder Plate	DEC2889
9	Lever Cushion (A)	DEC3001
10	Cushion	DEC3654
11	Jog Lever	DNK4763
12	Jog Shaft	DNK4934
13	Encorder Gear	DNK4937
14	Load Gear	DNK5178
15	Lever Holder	DNK5206
16	Shaft Holder	DNK5514
17	Cam Plate	DNK5546
18	Push Plate	DNK5547
19	Jog Dial A	DNK5574
20	Jog Dial	DNK6522
21	Arm	DNK6523
22	Holder	DNK6524
23	Roller A Assy	DXB1825
24	. . . . .	
25	. . . . .	
26	Washer	WA41D070D025
27	Washer	WT32D080D050
28	Screw	BPZ20P060FTC
29	Screw (FE)	DBA1265