

Service Manual

ORDER NO. RRV4626

DDJ-SB2

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

Model	Туре	Power Requirement	Remarks
DDJ-SB2	SXJ	DC 5 V (USB-bus power only)	
DDJ-SB2	XJCN	DC 5 V (USB-bus power only)	

This product is based on the DDJ-SB Performance DJ Controller, and some operation keys have been added, modified, or deleted.

In this service manual, any difference from the DDJ-SB is described in each corresponding section.

For matters not described in this manual, refer to the service manual of the DDJ-SB.

This service manual should be used together with the following manual(s).

Model No.	Order No.	Remarks
DDJ-SB/SXJ5	RRV4503	DDJ-SB/SXJ5

For SPECIFICATIONS and PANEL FACILITIES, refer to the operating instructions.

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11.3 IFPW ASSY (Refer to Service Manual for DDJ-SB)

1. SERVICE PRECAUTIONS

[1.1 NOTES ON SOLDERING], [1.3 SERVICE NOTICE], refer to Service Manual for DDJ-SB.

1.2 NOTES ON PARTS REPLACEMENT

■ Lubrication during Reassembly of the Jog Dial

When reassembling the Jog dial after replacing the Jog dial or control panel, be sure to apply grease to the shaft and shaft bearing of the Jog dial.

For details on how to lubricate, see "Procedure for applying grease during reassembly of the Jog dial" in "7. DISASSEMBLY." Be sure to use the specified grease.

Parts that require simultaneous replacement

Two photointerrupters are provided with each unit of the PNL1 Assy and PNL2 Assy for detection of Jog dial rotations. When replacement of photointerrupters is required because of abnormalities in detected waveforms, etc., be sure to replace both photointerrupters at the same time.

Corresponding Part No.: RPI-579N1

Parts that require simultaneous replacement: PC1551 and PC1552 (PNL1 Assy), PC2251 and PC2252 (PNL2 Assy)

After replacement, be sure to perform the procedure described in "4 Judging the quality of mounting and connection of the photointerrupter" in "6. SERVICE MODE."

Writing to the EEPROM after replacement of microcomputer/Assy

After replacement of any of the following microcomputers/Assys, be sure to write the appropriate program file to the EEPROM, following "8.3 WRITING TO THE EEPROM FOR THE USB CONTROLLER":

IFPW Assy, IC202 (EEPROM), IC201 (USB controller)

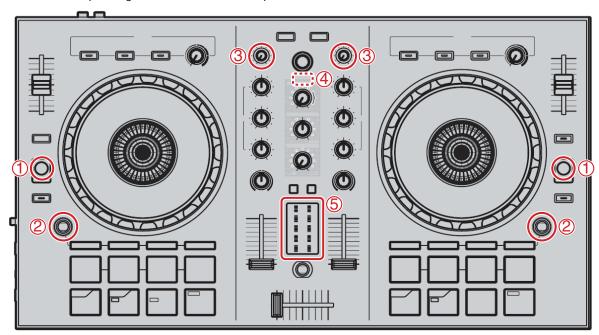
Without writing to the EEPROM, the unit will not operate properly.

PNL1 Assy, IC1002 (MAIN UCOM)

After writing to the EEPROM, it will be updated to the latest state.

1.4 DIFFERENCES BETWEEN THE DDJ-SB2 and DDJ-SB

The differences in the operating elements on the control panel of the DDJ-SB2 from those of the DDJ-SB are as follows:



- 1) DECK 3 and 4 buttons added
- 2 PAD TRANS (TAP) buttons added
- 3 TRIM controls added
- 4 BACK button omitted
- (5) Channel level indicators added

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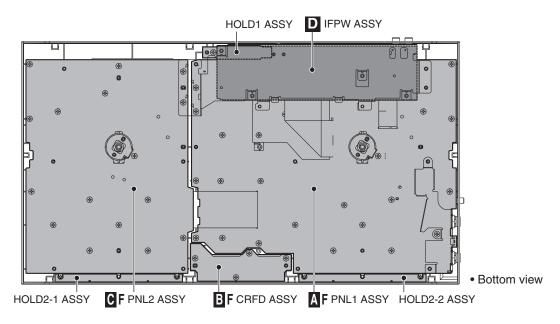
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3. BASIC ITEMS FOR SERVICE

[3.1 CHECK POINTS AFTER SERVICING], [3.2 JIGS LIST], refer to Service Manual for DDJ-SB.

3.3 PCB LOCATIONS



- C NOTES: Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

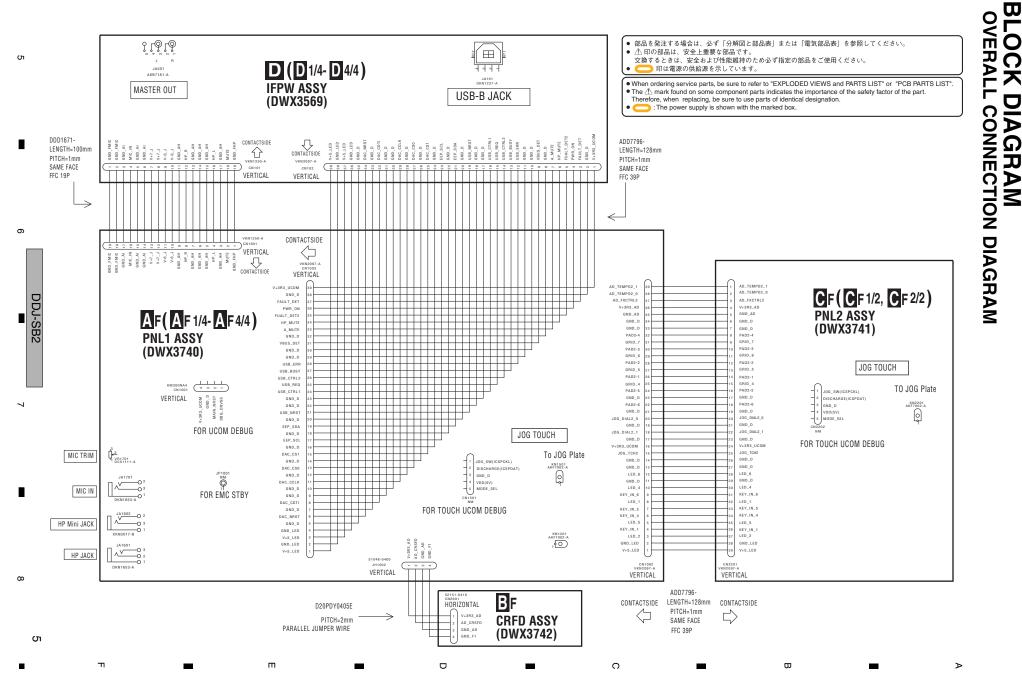
 The /\(\text{\text{mark found on some component parts indicates the importance of the safety factor of the part.}\)
 - The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Mark No. Description	Part No.	Mark No. Description	Part No.
LIST OF ASSEMBLIES			
■ NSP 1PNL1 ASSY	DWM2593	NSP 1PNL2 ASSY	DWM2579
2PNL1 ASSY	DWX3740	2PNL2 ASSY	DWX3741
2HOLD2-1 ASSY	DWX3787	2CRFD ASSY	DWX3742
		2HOLD1 ASSY	DWX3743
		2HOLD2-2 ASSY	DWX3788
		1IFPW ASSY	DWX3569

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4. BLOCK DIAGRAM



USB B RCA L/R **D** IFPW ASSY Master L/R XOUT XIN VSS1210 MUTE XOUT 6 MHz X'tal MAIN UCOM-USB UCOM control line power supply monitoring IC503 17 IC502 MASTER_DATA 11) AK4387ET 2 (4) MASTER DAC 4 IC401 BCLK LRLK 1 NJM4580MD (7) AMP 10 USB NRST USB REQ USB BUSY 43 43 45 45 46 NJM4580MD S-80942CNMC-USB MAIN -26 Reset IC UCOM UCOM AUDIO_DATA MM3411A33N TUSB3200ACPAH 5→3.3V Reg. 1 BH3547F 7 HP AMP (6dB) BH3547F 3 HP AMP (6dB) 5 10 AK4387ET USB UCOM HP DAC IC303/IC304 N.IM2878F3-05 7→5V Reg. IC202 EEP_SDA BR24T64F-W EEP_SDA EEP_SCL NJM2392M 5→7V/-6V DDC. FAULT_DET FAULT DET2 Mute drive A_MUTE MIC_IN Serial Control HP MUTE CN101 CN102 (37)(35) FPNL2 ASSY CN1003 CN1601 29 30 35 DAC_CDTI 36 DAC_NRST IC1702 (2/2) 7 NJM4580MD XIN DSS1131-MUTE 37 DAC_CCLK 38 DAC_CS0(for IC501) 4 MHz Ceramic Res. S-80927CNMC-G8X 39 DAC_CS1(for IC701) MAIN_NRST CN1002 CN2201 Reset IC IC1701 (1/2) Tempo x1 port Slider Slider CH fader x2 port NJM4580MD AMP Rotaly VR x1 port Rotaly VR VR1701 Rotaly VR Rotaly VR x11 port R5F3650ENFA-U0 MIC VR MAIN UCOM CROSS fader ×1 port PC1551 RPI-579N1 IC1701 1 JOG_DIAL1_1 PHOTO 24,75 JA1701 RPI-579N1 INTERRUPTER JOG Rotate JOG_DIAL2_1 MIC IN 20,22 PHOTO INTERRUPTER RPI-579N1 JOG_DIAL1_0 JOG Rotate 3,23,74 PHOTO INTERRUPTER RPI-579N1 JOG_DIAL2_0 JA1601 7,19,21 PHOTO INTERRUPTER HP KN2201 HP mini JOG Touch JOG_TCH_1 3 PIC10F206-I/P Touch UCOM 73 JOG_TCH_2 JOG Touch PIC10F206-I/P Touch UCOM KEY/LED MATRIX IN/OUT LED LED Tr. Buf. Tr. Buf. Grid x8 KEY Tr. Buf. Tr. Buf. PAD AFPNL1 ASSY Tr. Buf. Tr. Buf. JH1002 FCRFD ASSY

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5. DIAGNOSIS

[5.1 POWER ON SEQUENCE], [5.3 VOLTAGE MONITORING], [5.4 ABOUT POWER-SAVING MODE], [5.6 ERROR DISPLAY], refer to Service Manual for DDJ-SB.

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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 checking the lighting status of the LEDs, referring to "5.6 ERROR DISPLAY."

For the relationship of each power-supply and signal system, see "4.3 POWER BLOCK 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 "8.2 UPDATING OF THE FIRMWARE."

B Contents

- [0] Prior Confirmation
- [1] Failure in Startup (Failure in power-on)
- [2] Display (LED indicators)
- [3] Operations (Buttons / Volumes / Faders / Sliders / Jog dial
- [4] USB connection
- [5] AUDIO OUT
 - [6] AUDIO IN

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[7] Basic Operation Check of the MAIN UCOM

The waveform numbers and voltage confirmation-point numbers described in this section correspond to the numbers on the circuit diagrams and PCB diagrams.

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

Ν	о.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
	1		Service mode		After a failure point is identified, see the section referenced in this manual.	6. SERVICE MODE

[0-2] Checking Internal Cables

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Disconnection, breakage, or loose connection of internal cables		connected. Check that there is no breakage in the cables.		

[1] Failure in Startup (Failure in power-on)

[1-1] Failure in the power system

In a case where the unit is not started after the USB cable is connected and the unit is turned ON (all LED are not lit)

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Failure in the power system (1)	IFPW Assy	Check that the voltage of the 5VIN power line is in the range of 4.75–5.25 V.	If the voltage is outside the range of 4.75–5.25 V, failure in the USB-bus power, USB cable and USB jack (JA101).	4.3 POWER BLOCK DIAGRAM 5.3 VOLTAGE MONITORING
2	Failure in USB- bus power	IFPW Assy	Check that the VBUS voltage is lower than that of 5VIN by approximately 0.1 to 0.2 V.	If the voltage is 0 V, the wire for the IC protector (P101) may be broken.	4.3 POWER BLOCK DIAGRAM
3	Power failure in the MAIN UCOM on the IFPW Assy	IFPW Assy	If V+3R3_UCOM is abnormal (2.7 V or less) Disconnect the cables from each Assy in order to confirm which Assy's power is abnormal.	Disconnect the two FFCs connecting between the IFPW Assy and PNL1 Assy. If the normal voltage of V+3R3_UCOM is restored, the disconnected FFCs or a part on the PNL1/PNL2 Assy may be defective. If the normal voltage of V+3R3_UCOM is not restored, IC301 or a part that is connected to V+3R3_UCOM on the IFPW Assy may be defective, or connection may be poor.	4.3 POWER BLOCK DIAGRAM
4	Power failure in the MAIN UCOM	PNL1 Assy, PNL2 Assy	If the V+3R3_UCOM voltage is normal, check that Q302 (USB 5V SW) is functioning properly.	If the PWR_ON signal is "L," V+5D will not be output, because Q302 is not turned ON. The error-detection circuit may have been activated. Go to [5]. If the PWR_ON signal (between Pin 49 of IC1002 and the base of Q301) is "H," the error-detection circuit is not activated. Check the voltages of all power ICs. If they are normal, see "[1-2] Failure in the microcomputer system."	4.3 POWER BLOCK DIAGRAM

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No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
5	Power failure in the MAIN UCOM	PNL1 Assy, PNL2 Assy	Check if the error-detection circuit has been activated.	If the FAULT_DET signal (between R420 and Pin 48 of IC1002) is "L," the error-detection circuit has been activated. Go to [6]. If the FAULT_DET signal is "H," the error-detection circuit is not activated. Check the voltages of all power ICs. If they are normal, see "[1-2] Failure in the microcomputer system."	4.3 POWER BLOCK DIAGRAM
6	Power failure (2) Identification of defective power system	FAULT_DET IFPW Assy	Deactivate the voltage monitoring circuit then check the section with improper voltage.	The voltage monitoring circuit can be deactivated by removing R420 (0 Ω) on the FAULT_DET. See the notes in "5.3 VOLTAGE MONITORING" before proceeding to further diagnostics. To identify the section with improper voltage, check the voltage at each point on the IFPW Assy.	4.3 POWER BLOCK DIAGRAM 5.3 VOLTAGE MONITORING

[1-2] Failure in the microcomputer system

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Power failure in the MAIN UCOM	PNL1 Assy	Check the power terminal of the MAIN UCOM (IC1002).	Check the power and voltage are normal. Check the power line and the parts, such as coils (beads), resistors, and capacitors. If no problem was found with the parts, power line, and conduction between the power supply and GND, the MAIN UCOM (IC1002) may be defective.	10.11 WAVEFORMS (5) \$263
2	MAIN UCOM Reset circuit error	PNL1 Assy	Check the Reset terminal (pin 12) of the MAIN UCOM (IC1002).	In normal operation the voltage of the Reset terminal (Pin 12) is high. If it is low, check if the voltage at V+3R3_UCOM is 2.7 V or less. Check the reset line, resistors, capacitors, and the Reset IC (IC1001).	10.11 WAVEFORMS 5)\$253
3	MAIN UCOM X'tal error	PNL1 Assy	Check the oscillation waveforms of the X'tal (X1001).	If the oscillation waveforms are abnormal, check the resistor on the oscillation-signal line, the capacitor, and X'tal (X1001). If nothing is wrong with these parts, the MAIN UCOM (IC1002) may be defective.	10.11 WAVEFORMS (1) (2) (3)
4	MAIN UCOM startup error	PNL1 Assy	After startup, check the lighting statuses of the LEDs. (For example, although some of the LEDs light properly, the unit is not started up properly.)	Refer to "5.6 ERRROR DISPLAY". If there is no corresponding error indication, reload the program via USB. (8.2 UPDATING OF THE FIRMWARE) If the normal status is not recovered after all above steps are performed, the MAIN UCOM (IC1002) may be defective.	5.6 ERROR DISPLAY 8.2 UPDATING OF THE FIRMWARE
5	Power failure in the USB Controller	IFPW Assy	Check if a voltage error was detected. Check the power terminal of the USB Controller (IC201).	If the detected voltage error is confirmed, check conduction between the power supply and GND. Check the power line and the parts, such as coils (beads), resistors, and capacitors. If no problem was found with the parts, power line, and conduction between the power supply and GND, the USB Controller (IC201) may be defective.	5.3 VOLTAGE MONITORING 10.11 WAVEFORMS 123
6	USB Controller Reset circuit error	IFPW Assy	Check the voltage of Reset terminal (pin 10) of the USB Controller (IC201).	In normal operation, the voltage of the Reset terminal (pin 10) is high. If the voltage of the Reset terminal is low, check the reset line, resistors, capacitors. If no problem is found, the USB Controller (IC201) or MAIN UCOM (IC1002) may be defective.	10.11 WAVEFORMS ①2③
7	USB Controller X'tal error	IFPW Assy	Check the oscillation waveforms of the X'tal (X201).	If the oscillation waveforms are abnormal, check the resistor on the oscillation-signal line, the capacitor, and X'tal (X201). If nothing is wrong with these parts, the USB CONTROLLER (IC201) may be defective.	10.11 WAVEFORMS 4\(\sigma\)6\(\gamma\)
8	I2C communication error of USB Controller start up	IFPW Assy	Check the I2C communication waveforms of the EEPROM (IC202) immediately after startup.	Data of the EEPROM (IC202) are loaded only during startup. If an error is generated, check the power supply to the EEPROM, resistors, capacitors. If no problem is found, the EEPROM (IC202) or USB Controller (IC201) may be defective.	10.11 WAVEFORMS (6) (8) (9)
9	EEPROM error	IFPW Assy	Reload the program via USB.	If no problem is found with the communication waveform in "8.3 WRITING TO THE EEPROM FOR THE USB CONTROLLER" above, reload the program via USB. If reloading is successfully performed, the USB Controller (IC201) may be defective. If reloading fails, the EEPROM (IC202) may be defective.	8.3 WRITING TO THE EEPROM FOR THE USB CONTROLLER

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[2] Display (LED indicators)

[2-1] Any one of the LEDs does not light.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
	Defective LED, Defective LED signal line	Periphery of the abnormal LED		If the difference is outside the normal range, the signal lines at the periphery of the corresponding LED, resistors, or the LED itself may be defective.	

[2-2] Several LEDs do not light or abnormal light

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective LED signal line, Defective MAIN UCOM	PNL1 Assy, PNL2 Assy	Check the output signal of MAIN UCOM (IC1002).	If the output signal is abnormal, the MAIN UCOM (IC1002) and LED signal line may be defective.	10.11 WAVEFORMS 多⑦②③
2	Defective LED	Periphery of the abnormal LED	Check the connections of the LED then check the forward voltage (approx. 3.2 V: blue, 2.2 V: others) between both ends of the LED.	If the signal waveform is abnormal, the LED may be defective.	10.11 WAVEFORMS 外介2億
3	Defective transistor for LED drive	PNL1 Assy, PNL2 Assy	Check the transistors for LED drive.	If the signal waveform is abnormal, the transistor may be defective.	10.11 WAVEFORMS 5477273

[3] Operations (Buttons / Volumes / Faders / Sliders / Jog dial)

Operation of all operating elements can be confirmed in Service mode.

[3-1] The performance pads (8 large square pads on each of Decks 1 and 2) do not function.

_	No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
	1		PNL2 Assy Periphery of the	MAIN UCOM (IC1002) that is connected	Normally, the logic is Low (approx. 0 V) when a performance pad is ON, and High (approx. 3.3 V) when it is OFF. If it is not, the performance pad, signal line, FFC, or connector may be in failure.	
D	2	Defective MAIN UCOM (IC1002)	,	If the symptom persists after the above corrections.	The MAIN UCOM (IC1002) may be defective.	[7] Basic Operation Check of the MAIN UCOM

[3-2] The buttons are disabled except performance pads

	No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
	1	Loose connection /defective parts	PNL1 Assy PNL2 Assy Periphery of the abnormal button	Check that the signal line from the corresponding switch to the transistor at the switching-detection section up to the MAIN UCOM (IC1002) is all right.	If other switches that are connected to the same signal line operate normally, the corresponding switch or the diode on the signal line for the corresponding switch may be defective. If other switches do not operate either, a transistor in the switching-detection section or its peripheral circuits may be defective.	10.11 WAVEFORM 9899S
E	2	Defective MAIN UCOM (IC1002)	PNL1 Assy	If the symptom persists after the above corrections.	The MAIN UCOM (IC1002) may be defective.	[7] Basic Operation Check of the MAIN UCOM

[3-3] Rotary selector not controllable

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective BROWSE		Check that the signal lines (ENC_BRWS_0/1) are normal during rotation of the rotary selector.	If the signals are not normal, signal line, resistor, the rotary selector may be defective.	10.11 WAVEFORMS 6667
2	Defective MAIN UCOM (IC1002)		If the symptom persists after the above corrections.	The MAIN UCOM (IC1002) may be defective.	[7] Basic Operation Check of the MAIN UCOM

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No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connection /defective parts	PNL1 Assy, PNL2 Assy, CRFD Assy	Check that the signal lines (AD_****) between the VRs/faders/sliders and MAIN UCOM (IC1002) are all right.	If the signals are not normal, signal line, resistor, capacitor may be defective.	
2	Loose connection /defective parts	PNL1 Assy, PNL2 Assy, CRFD Assy	Check the voltage at each signal line when the corresponding VR is turned or the corresponding fader/slider is moved.	If the voltage of the signal line does not change between 3.3 V and 0 V when the VRs, faders, or sliders are operated, the corresponding operating element, signal line, FFC, connector, resistance, or capacitor may be defective. If the voltage of the AD_TEMPO1/2_1 signal line is not 1.65 V, or if the voltage of the AD_TEMPO1/2_0 signal line does not change between 3.3 V and 0 V when the tempo slider is moved, the tempo slider, signal line, FFC, connector, or capacitor may be in failure.	10.11 WAVEFORMS 愈的必够好多
3	Defective MAIN UCOM (IC1002)	PNL1 Assy	If the symptom persists after the above corrections.	The MAIN UCOM (IC1002) may be defective.	[7] Basic Operation Check of the MAIN UCOM

[3-5] Abnormalities regarding the Jog dial

After the Jog dial Assy is disassembled then reassembled, be sure to check that the load value for the Jog dial is within the specified range. Refer to the "6.1 SERVICE MODE_③ Judging the quality of the Jog dial load".

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
Turr	ing of the Jog di	al is not detected.			
1	Loose connection /defective parts	PNL1 Assy, PNL2 Assy	Check the JOG_DIAL1/2_0 and JOG_DIAL1/2_1 waveforms while the Jog dial is rotated.	If either waveform is abnormal, the photo interrupters (PC1551, PC1552, PC2251 and PC2252) may be defective.	10.11 WAVEFORMS 5)6970
2	Defective JOG1/2 photo interrupter	PNL1 Assy, PNL2 Assy	Check that the phases of the JOG_DIAL1/2_0 and JOG_DIAL1/2_1 waveforms are identical to those described in "④ Quality judging of attachment of the photointerrupters" in "6.1 SERVICE MODE" when the jog dial is turned.	If the waveforms are normal but the phases are not correct, the photointerrupters (PC1551, PC1552, PC2251, PC2252) may be mounted improperly.	10.11 WAVEFORMS ⑤ ಄ ⑦
3	Defective MAIN UCOM (IC1002)	PNL1 Assy	If the symptom persists after the above corrections.	The MAIN UCOM (IC1002) may be defective.	[7] Basic Operation Check of the MAIN UCOM
Tou	ching of the jog d	ial is not detected, or	touching is detected although the jog dia	al is not touched.	
4	Loose connection /defective parts	PNL1 Assy, PNL2 Assy	Check the signal level of Pin 4 of IC1501/IC2201.	The signal is "H" while the jog dial is not touched and becomes "L" when it is touched. If it is not, go to [5]. If it is, go to [8].	10.11 WAVEFORMS 5)®
5	Loose connection /defective parts	PNL1 Assy, PNL2 Assy	Check the signal of Pin 3 of IC1501/IC2201 (Test land "Freq").	The signal produces a pulse waveform in the frequency range of 900 to 1300 kHz while the jog dial is not touched and a pulse waveform in the frequency range of 400 to 700 kHz while it is touched. If so, IC1501/IC2201 may be defective. If the signal produces a pulse waveform in the frequency range of 900 to 1300 kHz regardless of the jog dial's being touched or not, go to [6].	
6	Loose connection /defective parts	PNL1 Assy, PNL2 Assy	Check the connection between Plate (DAH3038) and IC1501/IC2201. As the surface of the Plate is coated, a conduction check must be performed on the plate surface facing the jog dial (DNK6346) through their gap.	Possible causes are poor connection between the aluminum plate of the jog dial and the KN1501/KN2201 metal fittings for grounding, or poor connection or a defective part in the circuits between the KN1501/KN2201 and IC1501/IC2201.	
7	Loose connection /defective parts	PNL1 Assy, PNL2 Assy	Check connections between KN1501/ KN2201 and IC1501/IC2201.	Poor connection or a defective part in the circuits between the KN1501/KN2201 and IC1501/IC2201.	
8	Loose connection /defective parts	PNL1 Assy, PNL2 Assy	Check connections between IC1501/IC2201 and IC1002.	If the connection is properly made, the MAIN UCOM (IC1002) may be defective.	
The	Jog dial turns to	o freely. (The load valu	e for the Jog dial is outside the specified	l range.)	
9	Improper assembly of the Jog dial	Jog dial Assy	Check that the load value for the Jog dial is within the specified range, referring to "Measuring method" in "6.1 SERVICE MODE_③ Judging the quality of the Jog dial load."	If the load value is outside the specified range, detach the jog dial then reapply grease. See "Procedure for applying grease during reassembly of the jog dial" in "7. DISASSEMBLY."	6.1 SERVICE MODE 7. DISASSEMBLY

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٩ [No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
	Resi	stance to turning	the Jog dial is too st	rong. (The load value for the Jog dial is o	utside the specified range.	
		Improper assembly of the Jog dial		Check that the load value for the Jog dial is within the specified range, referring to "Measuring method" in "6.1 SERVICE MODE_③ Judging the quality of the Jog dial load."	3.,	6.1 SERVICE MODE 7. DISASSEMBLY

[4] USB connection

[4-1] The unit cannot be recognized by the PC when connected to the PC via USB connection.

	No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
В	0		Input setting of the application installed on the PC	Check that the input setting of the application installed on the PC is appropriate.	The PC will not recognize the unit if the input setting of the application installed on the PC is inappropriate.	Operating instructions
	1	Failure in startup	IFPW Assy PNL1 Assy	Check the lighting statuses of the LEDs during startup.	If no LED lights, see [1] Failure in Startup.	[1] Failure in Startup
	2	Defective USB Controller	IFPW Assy	Check the communication waveforms of the USB_DP/DN lines.	If the unit is connected to a PC via the USB cable, communication will be performed through the USB DP/DN lines. If communication cannot be performed, check the USB cable, connectors, internal cables, resistors, capacitors, and filters. If nothing is wrong with them, USB Controller is defective. Check the items listed in "[1-2] Failure in the microcomputer system".	[1-2] Failure in the microcomputer system 10.11 WAVEFORMS 18/19

[5] AUDIO OUT

[5-1] MASTER OUT is not output.

	No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
•	0	Wrong input setting of the application installed on the PC	Input setting of the application installed on the PC	Check that the input setting of the application installed on the PC is appropriate.	The PC will not recognize the unit if the input setting of the application installed on the PC is inappropriate.	Operating instructions
D	1		IFPW Assy	Check that an audio signal is output from DAC (IC501 pin 10, 11) for MASTER OUT.	If MASTER connector outputs, go to [2], [3]. If MASTER connector does not output, go to [4].	10.11 WAVEFORMS 293233
•	2	Mute signal Loose connection /defective parts	IFPW Assy PNL1 Assy	Check the level of the MUTE audio muting signal.	Normally, the MUTE signal must be low (Approx. 0 V, muting canceled). When it is high (Approx. 3 V), muting is activated and no sound is output. The MUTE signal becomes high, possibly because connection of the corresponding signal line is loose or the Muting circuit (Q501) or Muting Drive circuit (Q502 to Q504, etc.) is defective. As the MUTE signal is output to the PNL1 Assy via CN101, if MASTER OUT is output after the FFC that is connected to CN101 is disconnected, the circuitry on the PNL1 Assy is in failure.	
E	3	Mute signal Loose connection /defective parts	IFPW Assy PNL1 Assy	Check the level of the A_MUTE audio muting signal.	Normally, the A_MUTE signal must be low (Approx. 0 V, muting canceled). When it is high (Approx. 3 V), muting is activated and no sound is output. The A_MUTE signal becomes high, possibly because connection of the signal line is loose or the transistor (Q501) or MAIN UCOM (IC1002) is defective.	
	4	Loose connection /defective parts	IFPW Assy	Check the digital input signals to DAC (IC501) for MASTER OUT. • MCLK: pin 1 • BCLK: pin 2 • MASTER_DATA: pin 3 • LRCK: pin 4 • DAC_NRST: pin 5	If any of those signals is abnormal, connection of the corresponding signal line may be loose or the resistor, capacitor, USB Controller (IC201), or MAIN UCOM (IC1002) may be defective.	10.11 WAVEFORMS 2933323
F	5	Mute signal Loose connection /defective parts	IFPW Assy	Identify the point where the audio signal is interrupted on the line from pins 10 and 11 of IC501 (DAC for MASTER OUT) to the jacks (JA501).	The audio signal may be interrupted by a loose connection of the signal line or by a defective resistor, capacitor, transistor, operational amps (IC502, IC503,) or jacks.	10.11 WAVEFORMS 3439

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[5-2] The HEAD PHONE signal is not output.

Before checking through the table below, check if the settings of the PC application are correct.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
0	Wrong input setting of the application installed on the PC	Input setting of the application installed on the PC	Check that the input setting of the application installed on the PC is appropriate.	The PC will not recognize the unit if the input setting of the application installed on the PC is inappropriate.	Operating instructions
1	Loose connection /defective parts	IFPW Assy	Check the audio signal (HP_L/R), using pins 16 and 12 of the CN101 on the IFPW Assy.	If no audio signal is output, the IFPW Assy may be defective. Go to [2]. If an audio signal is output, connection between the IFPW and PNL1 Assys may be loose, connections inside the PNL1 Assy may be loose, or these Assys may be defective. Go to [6].	10.11 WAVEFORMS
2		IFPW Assy	Check the audio output signal, using pins 10 and 11 of the HP DAC (IC701).	If an audio signal is output, go to [3]. If an audio signal is not output, go to [5].	
3	Loose connection /defective parts	IFPW Assy	Check the audio input signal, using pins 3 and 5 of the HP AMP (IC702). Check the audio output signal, using pins 1 and 7 of the HP AMP (IC702).	If the output signal is normal, connection of the audio signal between HP AMP IC702 and CN101 may be loose. If the input signal is abnormal, connection of the audio input signal line may be loose or the resistor or capacitor may be defective. If the input signal is normal but the output signal is abnormal, go to [4].	
4	Mute signal Loose connection /defective parts	IFPW Assy	Check the level of the muting signal (IC702 pin 2) for HP AMP.	Normally, the muting signal must be high (Approx. 3.3 V, muting canceled). When it is low (Approx. 0 V), muting is activated and no sound is output. The signal line may be defective. If the muting signal is high and normal, possibly HP AMP is defective.	
5	Loose connection /defective parts	IFPW Assy	Check the digital input signals to DAC (IC701) for HP. • MCLK: pin 1 • BCLK: pin 2 • MASTER_DATA: pin 3 • LRCK: pin 4 • DAC_XRST: pin 5	If any of those signals is abnormal, connection of the corresponding signal line may be loose or the resistor, capacitor, USB Controller (IC201), or MAIN UCOM (IC1002) may be defective. If all signals are normal, the DAC (IC701) and its peripheral circuitry do not function properly.	10.11 WAVEFORMS 2930313233
6	Loose connection /defective parts	PNL1 Assy	Identify the point where the audio signal is interrupted on the line from CN101 to the jacks (JA1601/JA1602).	The audio signal may be interrupted by a loose connection of the signal line or by a defective resistor, capacitor, or jack.	

[6] AUDIO IN

[6-1] The MIC INPUT signal is not output

All MIC INPUT circuits are analog. A MIC INPUT signal will be mixed with a DA-converted MASTER signal then output as a MASTER OUT signal.

Therefore, check if the MASTER OUT signal is normal, then if it is, check through this article.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connection /defective parts	PNL1 Assy	Check the audio signal (MIC_IN), using pin 16 of CN1601 on PNL1 Assy.	If an audio signal is input, CN1601, FFC or IFPW Assy may be defective. Go to [2]. If an audio signal is not output, inside the PNL1 Assy may be defective. Go to [3].	
2	Loose connection /defective parts	IFPW Assy	Check the audio signal (MIC_IN), using pin 4 of CN101 on IFPW Assy.	If no audio signal is output, CN1601, FFC or IFPW Assy may be defective. If an audio signal is output, connection between signal line and IC503 (OPAMP for MASTER OUT) may be loose, or these parts may be defective.	
3	Loose connection /defective parts	PNL1 Assy	Identify the point where the audio signal is interrupted on the line from CN1601 to the jack (JA1701).	, , , ,	

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[7] Basic Operation Check of the MAIN UCOM

Note: First, check if the voltage at each section is OK.

Operation checking of all operating elements and LEDs can be performed in Service mode. With regard to operation checking of LED lighting, besides lighting of each LED, check that all LEDs can be simultaneously lit or unlit.

	No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
•	1	Failure in LED lighting	PNL1 Assy PNL2 Assy	In each mode where the abnormal LED should be lit, check the GRID signals (GRID_0 to GRID_7) relating to the abnormal LED between the MAIN UCOM and the transistor for driving the corresponding LED.	If the waveform is abnormal, connection of the GRID signal line may be loose or the resistor, capacitor, or transistor may be defective. If nothing is wrong with these parts, the MAIN UCOM (IC1002) may be defective.	10.11 WAVEFORMS 到场场句
В	2		PNL1 Assy PNL2 Assy	In each mode where the abnormal LED should be lit, check the LED-driving signal between the transistor for driving the corresponding LED and the abnormal LED.	If the waveform is abnormal, connection of the LED-driving signal line may be loose or the resistor, transistor, or diode may be defective.	10.11 WAVEFORMS 每⑦②③
	3		PNL1 Assy PNL2 Assy	In each mode where the abnormal LED should be lit, check the LED-control signal (LED_0 to LED_6) corresponding to the abnormal LED between the transistor for driving the corresponding LED and the MAIN UCOM.	If the waveform is abnormal, connection of the LED-control signal line may be loose or the resistor, capacitor, or transistor may be defective. If nothing is wrong with these parts, the MAIN UCOM (IC1002) may be defective.	10.11 WAVEFORMS 外分で3
С	4	Failure in button operation	PNL1 Assy PNL2 Assy	When pressing the abnormal button, check the GRID signal (GRID_0 to GRID_7) corresponding to the abnormal key between the MAIN UCOM and the switch for the corresponding key (S****).	If the waveform is abnormal, connection of the KEY-detection signal line may be loose or the resistor, capacitor, or transistor may be defective. If nothing is wrong with these parts, the MAIN UCOM (IC1002) may be defective.	10.11 WAVEFORMS 经656分
	5		PNL1 Assy PNL2 Assy	When pressing the abnormal button, check the KEY detection signal between the abnormal key and the transistor for key detection.	If the waveform is abnormal, connection of the KEY-detection signal line may be loose or the switch, transistor, or diode may be defective.	10.11 WAVEFORMS 64.88.59
	6		PNL1 Assy PNL2 Assy	the KEY-detection signal (KEY_IN_0 to KEY_IN_6) corresponding to the abnormal	If the waveform is abnormal, connection of the KEY-detection signal line may be loose or the resistor, capacitor, or transistor may be defective. If nothing is wrong with these parts, the MAIN UCOM (IC1002) may be defective.	10.11 WAVEFORMS \$4869
D	7	Failure in operation of the performance pad, volume, tempo slider, fader, rotary selector, or Jog dial (touching and rotating)	PNL1 Assy PNL2 Assy	Check the waveform of each input signal to the MAIN UCOM when you operate the abnormal operating element.	If the waveform is abnormal, connection of the corresponding signal line may be loose or the resistor, capacitor, or transistor may be defective. If nothing is wrong with these parts, the MAIN UCOM (IC1002) may be defective.	10.11 WAVEFORMS 5)86)82696 66789970
E	8	After lighting of the LEDs at startup is finished, key operation is disabled or LED lighting is not interlocked with the application.	PNL1 Assy IFPW Assy	Check the communication waveform between the USB Controller (IC201) and MAIN UCOM (IC1002). USB_XRST USB_REQ USB_BUSY USB_ERR USB_CTRL1 USB_CTRL2 EEP_SCL EEP_SDA	Normally, the USB Controller (IC201) and MAIN UCOM (IC1002) communicate periodically. Check that each communication-signal line is all right, referring to "10.11 WAVEFORMS." If any waveform is abnormal, connection of that signal line may be loose or the resistor or the capacitor may be defective. If nothing is wrong with these parts, the USB Controller (IC201) or MAIN UCOM (IC1002) may be defective.	10.11 WAVEFORMS 6\8\9\2021\22\23\24
	9	Failure in operation of the volume for MASTER VOL or HP VOL, or abnormal ooutput level.	PNL1 Assy IFPW Assy	Check the waveforms of the control signals of DAC for the MASTER OUT (IC501) and for HP (IC701).	Communication between the MAIN UCOM and DAC is performed only upon startup or while the MASTER_VOL or HP_VOL is operated. If the communication control waveform is abnormal, connection of that signal line may be loose or the resistor or transistor may be defective. If nothing is wrong with these parts, the DAC for MASTER OUT (IC501) or for HP (IC701) or the MAIN UCOM (IC1002) may be defective.	10.11 WAVEFORMS 3834041

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5.5 BASIC OPERATION CHECK USING SERATO DJ INTRO

[Installation of Serato DJ Intro]

A brief explanation of how to install Serato DJ Intro on a PC is given below. For details, refer to the operating instructions of the software.

If the OS of the PC to be used is Windows, install the driver software that enables audio output from the PC beforehand. The operating environment of the PC required for installation of Serato DJ Intro is shown below.

Minimum operating environment

Supported operating systems	CPU and required memory
Mac: OS X v10.10, 10.9, and 10.8	Intel [®] processor, Core™ Duo 1.6 GHz or better Intel [®] processor, Core™ i3, i5, or i7
and 10.8	1 GB or more of RAM
Windows: Windows 8.1/8 and Windows 7 (SP1)	Intel [®] processor, Core™ 2 Duo 2.0 GHz or better Intel [®] processor, Core™ i3, i5, or i7
and windows / (SPI)	1 GB or more of RAM

Others	
USB port	A USB 2.0 port is required to connect the computer with this unit.
Display resolution	Resolution of 1 024 x 768 or greater
Internet connection	An Internet connection is required for registering the "Serato.com" user account and downloading the software.

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- To check the latest information on the operating environment and compatibility, and to acquire the latest operating system, access the Serato site.
 http://serato.com/
- Operating System support assumes you are using the latest point release for that version.

For the latest version of the Serato DJ Intro software, access Serato.com and download the software from there.

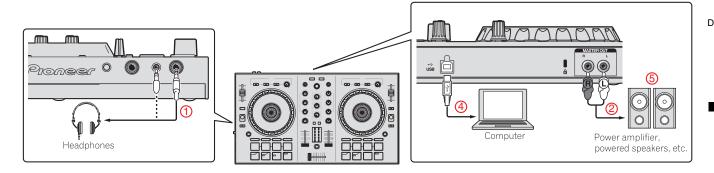
For downloading, registration of a user account at "Serato.com" is required.

Unzip the downloaded file, then double-click the unzipped file to launch the installer.

Read the terms of the license agreement carefully, and if you agree, select [I agree to the license terms and conditions], then click [Install].

After installation is completed, the Installation Completed screen will be displayed. Click on [Close] to terminate the Serato DJ Intro installer.

[Connections]



[Operating procedures]

- 1 Connect headphones to one of the [HEADPHONES] terminals.
- ② Connect such devices as a power amplifier, powered speakers, etc., to the [MASTER OUT] terminals.
- 3 Turn on the computer's power.
- 4 Connect this unit to your computer via a USB cable.
- 5 Turn on the power of the devices connected to the output terminals (power amplifier, powered speakers, etc.).

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A Starting the system

Launching Serato DJ Intro

For Windows 7

From the Windows [Start] menu, click the [Serato DJ Intro] icon under [All Programs] > [Serato] > [DJ Intro].

■ For Windows 8.1/8

From [Apps view], click the [Serato DJ Intro] icon.

For Mac (OS X)

In Finder, open the [Applications] folder, then click the [Serato DJ Intro] icon.

Computer screen directly after the Serato DJ Intro software is launched



A: Deck section C: Browser section

Importing tracks

- ① Click the [Files] icon on the Serato DJ Intro software screen to open the [Files] panel.
- 2 Click to select the track obtained in Obtaining a track for your DJ performance in the [Files] panel.
- 3 Drag and drop the selected file to the [crates] panel on the Serato DJ Intro software screen.

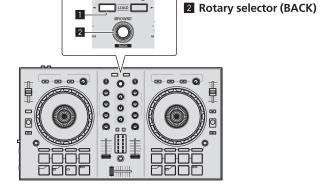


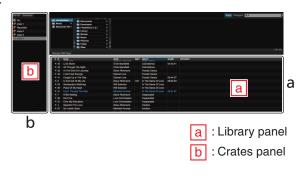
Loading tracks and playing them

- ① Press the rotary selector (BACK) while pressing the [SHIFT] button of this unit to move the cursor to the [crates] panel on the computer screen, then turn the rotary selector (BACK) to select a crate, etc.
- ② If the [Files] panel is open, click the [Files] icon to close the [Files] panel.

1 LOAD button

- ③ Press the rotary selector (BACK) to move the cursor to the library panel on the computer screen, then turn the rotary selector (BACK) and select a track.
- 4 Press the [LOAD] button to load the selected track onto the deck.





: [Files] panel

: Crates panel

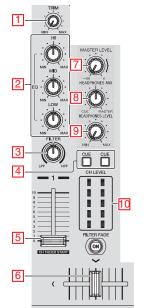
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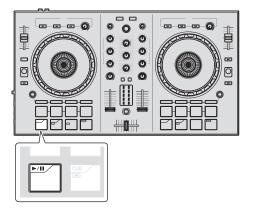
Playing tracks and outputting the sound



- 1 TRIM control
- 2 EQ (HI, MID, LOW) controls
- 3 FILTER control
- 4 Headphones CUE button
- **5** Channel fader
- 6 Crossfader
- 7 MASTER LEVEL control
- **8** HEADPHONES MIX control
- 9 HEADPHONES LEVEL control
- 10 Channel level indicator
- ① Set the positions of the controls, etc., as shown below.

Names of controls, etc.		Position
TRIM control	1	Turned fully counterclockwise
EQ (HI, MID, LOW) controls	2	12 o'clock position
FILTER control	3	12 o'clock position
Channel fader	5	Minimum (lowest) position
MASTER LEVEL control	7	Turned fully counterclockwise
Crossfader	6	Center position

② Press the [►/II] button to play the track.



- 3 Turn the [TRIM] control (1).
 Adjust the [TRIM] control so that the channel level indicator' s (10) orange indicator lights at peak level.
- 4 Move the channel fader (5) to the maximum level.
- (5) Turn the [MASTER LEVEL] (7) control to adjust the audio level of the speakers.

 Adjust the audio level output from the [MASTER OUT] terminals to an appropriate level.

Monitoring sound with headphones

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

Names of controls, etc.		Position
HEADPHONES MIX control	8	12 o'clock position
HEADPHONES LEVEL control	9	Turned fully counterclockwise

- ① Press the headphones [CUE] button for the channel 1.
- ② Turn the [HEADPHONES LEVEL] control. Adjust the sound level output from the headphones to an appropriate level.

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6. SERVICE MODE 6.1 SERVICE MODE

The outline in the Service mode

The following service modes are prepared for this unit.

- ① Check of operator input and a display function
 It is the mode which checks each input and display function of buttons, volumes, jog dials, and encoders.
- Version display
 It is the mode which checks the version of a firmware.
 - 3 Judging the quality of the Jog dial load It is the mode which judges the quality of the load when rotating jog dial.
 - ④ Judging the quality of mounting and connection of the photointerrupter
 It is the mode which judges the quality of attachment of photointerrupter which detects rotation of jog dial.
 - ⑤ A/D value fluctuation check mode The description of this mode is omitted, because this confirmation mode is provided for use by engineers.
- 6 Factory reset User settings is reset and it returns to a default.

① Check of operator input and a display function (1)

When it spends a power supply while pushing a LOOP IN and a LOOP OUT buttons of right deck simultaneously, enters into this mode. (Please continue pushing until an opening display is completed.)

In this mode, the input of each buttons, volumes, jog dials, and encoders are correct, and it can check that a display can also be performed correctly. In addition, display of a button is turned on only while pushing the button. Refer to the following next clause for volume, jog dial and encoder.

Part	Operator	Туре	LED Display
Deck (The thin	ng same on the right and the left is omitte	ed.)	
1	▶/II button	Performance pads (Tact SW)	▶/II
2	CUE (I◄) button	Performance pads (Tact SW)	CUE (I◄)
3	SYNC (OFF) button	Performance pads (Tact SW)	SYNC (OFF)
4	SHIFT button	Performance pads (Tact SW)	SHIFT
5	Performance pads 1	Performance pads (Tact SW)	Performance pads 1
6	Performance pads 2	Performance pads (Tact SW)	Performance pads 2
7	Performance pads 3	Performance pads (Tact SW)	Performance pads 3
8	Performance pads 4	Performance pads (Tact SW)	Performance pads 4
9	HOT CUE mode button	Tact SW	HOT CUE mode
10	AUTO LOOP mode button	Tact SW	AUTO LOOP mode
1	MANUAL LOOP mode button	Tact SW	MANUAL LOOP mode
12	SAMPLER mode button	Tact SW	SAMPLER mode
13	3 TRANS button	Tact SW	TRANS
14	VINYL (SLIP) button	Tact SW	VINYL (SLIP)
15	DECK button	Tact SW	DECK 3 (4)
16	KEY LOCK (TEMPO RANGE) button	Tact SW	KEY LOCK (TEMPO RANGE)
17	7 TEMPO slider	Slide VR (with center click)	* Refer to next clause.
18	B Effect 1 button	Tact SW	Effect 1
19	Effect 2 button	Tact SW	Effect 2
20	Effect 3 button	Tact SW	Effect 3
2	Effect level controls	Rotary VR (without center click)	* Refer to next clause.
22	2 Jog dial	Jog	* Refer to next clause.
Mixer (23, 29	to 35 is the same at right and left)		
23	B LOAD button	Tact SW	
24	Rotary selector (Rotate)	Rotary encoder (with push)	* Refer to next clause.
25	Rotary selector (Push)	Rotary encoder (with push)	All LED lit → Dark → Unlit (Cyclic)
26	MASTER LEVEL control	Rotary VR (without center click)	* Refer to next clause.
27	7 HEADPHONES MIX control	Rotary VR (with center click)	* Refer to next clause.
28	HEADPHONES LEVEL control	Rotary VR (without center click)	* Refer to next clause.
29	TRIM control	Rotary VR (with center click)	* Refer to next clause.
30	EQ (HI) control	Rotary VR (with center click)	* Refer to next clause.
3.	EQ (MID) control	Rotary VR (with center click)	* Refer to next clause.
32	EQ (LOW) control	Rotary VR (with center click)	* Refer to next clause.
33	FILTER control	Rotary VR (with center click)	* Refer to next clause.
34	Headphones CUE button	Tact SW	Headphones CUE
35	Channel fader	Slide VR (without center click)	* Refer to next clause.
36	6 Crossfader	Slide VR (without center click)	* Refer to next clause.
3	7 FILTER FADE button	Tact SW	FILTER FADE
4	MIC LEVEL control	Rotary VR (without center click)	* Firmware is not concerned.

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1 Check of operator input and a display function (2)

The bar display of the volume is carried out using the sequence of the following LED. If the value of volume decreases, the number of lightings of LED becomes fewer, and if it increases, it will increase. LED turned on whenever it pushes LOAD button can move, and volume can be chosen. (mode[1] to [5]) And LED is used in the shape of a ring, and jog dial and a rotary encoder carry out a rotation display. in addition, if jog touch is ON LOOP-OUT and RELOOP are turned on.

LED	[mode0] FX ALL OFF	[mode1] FX1-1 ON	[mode2] FX1-2 ON
1	Test of button	TEMPO slider (L)	EQ (HI) control (L)
2	Test of button	Effect level controls (L)	EQ (MID) control (L)
3	Test of button	FILTER control (L)	EQ (LOW) control (L)
4	Test of button	TEMPO slider (R)	EQ (HI) control (R)
(5)	Test of button	Effect level controls (R)	EQ (MID) control (R)
6	Test of button	FILTER control (R)	EQ (LOW) control (R)
LED	[mode3] FX1-3 ON	[mode4] FX2-1 ON	[mode5] FX2-2 ON
1	MASTER LEVEL control	Jog dial (rotate) (L)	Rotary selector (rotate)
2	HEADPHONES MIX control	Jog dial (rotate) (L)	Rotary selector (rotate)
3	HEADPHONES LEVEL control	Jog dial (rotate) (L)	Rotary selector (rotate)
4	Channel fader (L)	Jog dial (rotate) (R)	TRIM 1 control
(5)	Channel fader (R)	Jog dial (rotate) (R)	TRIM 2 control
6	Crossfader	Jog dial (rotate) (R)	_



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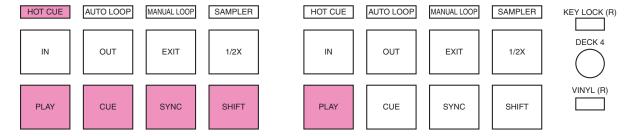
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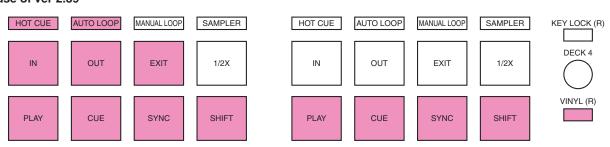
2 Version display

In "① Check of operator input and a display function (2)", if FILTER FADE button is pushed in the state where push LOAD button and FX2-3 is on (mode6), while pushing, a version is displayed on the sequence of LED.

In case of Ver 1.05



• In case of Ver 2.39



3 Judging the quality of the Jog dial load

Refer to the service manual of DDJ-SB.

4 Judging the quality of mounting and connection of the photointerrupter

Refer to the service manual of DDJ-SB.

(5) A/D value fluctuation check mode

The description of this mode is omitted, because this confirmation mode is provided for use by engineers.

6 Factory reset

The memory of the following user setup can be carried out in this unit.

- (1) Channel fader start setting
- (2) Demo mode setting
- (3) Jog dial MIDI message sending interval setting
- (4) BackSpin Assist Setup

In factory reset, these setup can be eliminated and it can return to a default.

In "1 Check of operator input and a display function (2)", If LOOP IN and 1/2X buttons of the right deck is simultaneously pushed in the state (mode6) where push LOAD button and FX 2-3 is on, all LED of

HOT CUE / AUTO LOOP / MANUAL LOOP/SAMPLER

IN / OUT / RELOOP / 1/2X

►/II / CUE / SYNC / SHIFT

of the right deck can light up and reset.

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7. DISASSEMBLY

Note:

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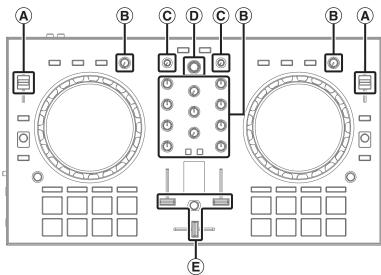
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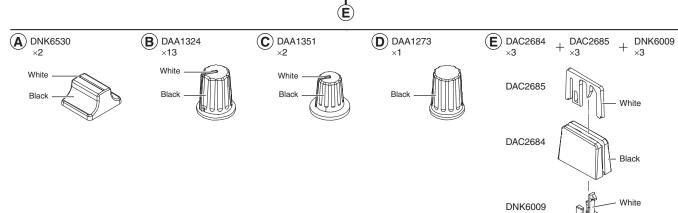
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Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

3

Knobs and Volumes Location





Disassembly

[1] Each PCB Assemblies

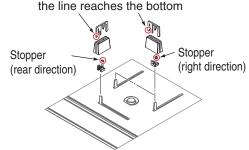
Exterior Section

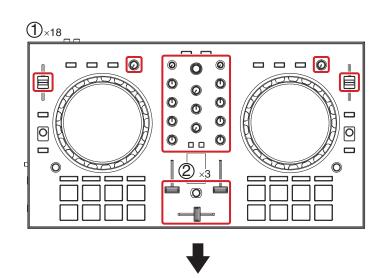
- (1) Remove the all knobs.
- (2) Remove the 3 Silider knobs 2, 3 Slider knobs 1, 3 Stoppers/SLD.

(Refer to the service manual of DDJ-SB.)

The reference of the direction

Side on which the line reaches the bottom





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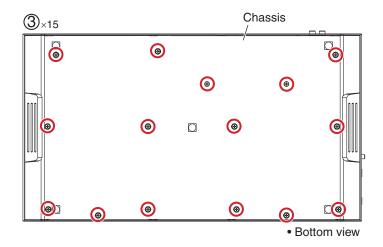
DDJ-SB2

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(3) Remove the Chassis by removing the 15 screws.

(BPZ30P100FTB)



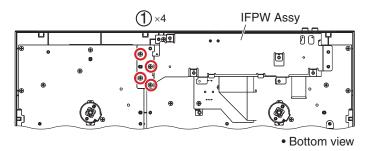
В

D

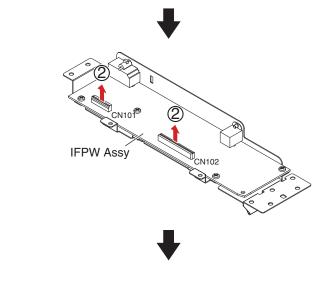
Е

• IFPW Assy

(1) Remove the IFPW Assy with Stay by removing the 4 screws. (BPZ30P080FNI)



(2) Disconnect the 2 flexible cables. (CN101, 102)



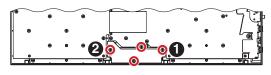
• CRFD Assy

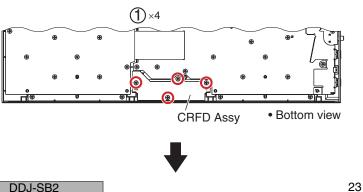
(1) Remove the CRFD Assy by removing the 4 screws. (BPZ30P080FNI)

Screw tightening order

The other screws are random order.

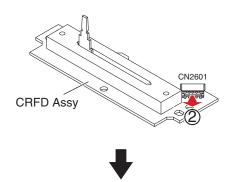
5





3

(2) Disconnect the 1 connector. (CN2601)



• PNL2 Assy

В

С

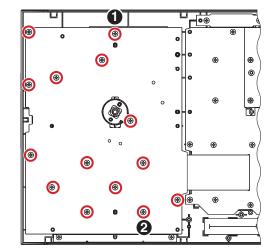
D

Е

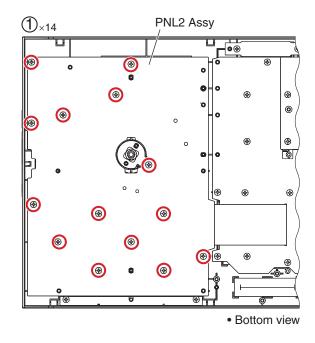
(1) Remove the PNL2 Assy by removing the 14 screws. (BPZ30P080FNI)

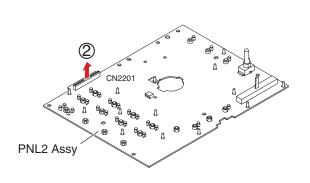
Screw tightening order

The other screws are random order.



(2) Disconnect the 1 flexible cable. (CN2201)





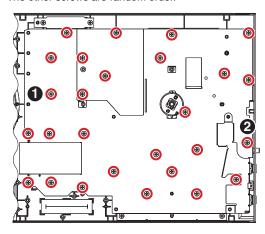
24

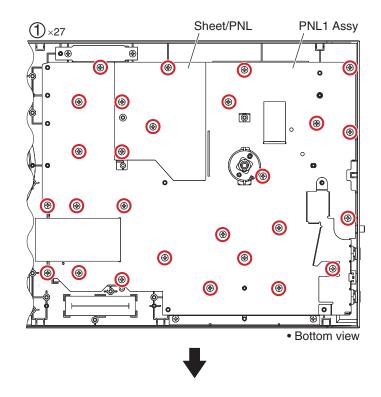
PNL1 Assy

 Remove the Sheet/PNL and PNL1 Assy by removing the 27 screws. (BPZ30P080FNI)

Screw tightening order

The other screws are random order.





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25

[2] Jog dial Section

Refer to the service manual of DDJ-SB.

8. EACH SETTING AND ADJUSTMENT

[8.2 UPDATING OF THE FIRMWARE], [8.3 WRITING TO THE EEPROM FOR THE USB CONTROLLER], refer to Service Manual for DDJ-SB.

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 or PCB Assemblies are replaced.

 IC and PCB Assy storing firmware / user settings □ Confirmation of the version of the firmware MAIN UCOM (IC1002: PNL1 Assy) · Updating to the latest version of the firmware USB controller (IC201: IFPW Assy) · Writing to EEPROM for USB controller EEPROM (IC202: IFPW Assy) · Factory reset IFPW Assy, PNL1 Assy · Be changed user setting to condition before the repair (when be possible) · Judging the quality of the Jog dial load Jog dial at the "NG" judgment execute habituation of the grease again. • Judging the quality of mounting and connection of the PC1551, PC1552 (PNL1 Assy) PC2251, PC2252 (PNL2 Assy) photointerrupter

8.4 ITEMS FOR WHICH USER SETTINGS ARE AVAILABLE

A This unit is provided with user settable items, as shown below.

Although no serious operational problems occur even if data for such user settable items are cleared during repair, it is recommended that you take note of those settings before starting repair.

Use the Check Sheet, to which you can transcribe the settings.

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

	Item for Which User's Setting Value (The factory default settings are indicated in bold.) / Indication method		Part Name	Content to be Stored
	Channel fader start setting	with the sync mode set / without the sync mode set / function disabled		
		(Left deck) Effect 1 button lit / Effect 2 button lit / Effect 3 button lit		
es	Demo mode setting	Settings enabled / Settings disabled		
modes		(Left deck) [VINYL (SLIP)] button lit / off	101000	
	Jog dial MIDI message	3 ms / 4 ms / 5 ms / 6 ms / 7 ms / 9 ms / 11 ms / 13 ms	(PNL1 Assv)	Utility setting
Utilities	sending interval setting	performance pads lighting LED number: 1/2/3/4/5/6/7/8	(11217.00)	
	Back spin length setting	short / normal / long		
		Effect 1 button lit: short / Effect 2 button lit: normal : Effect 3 button lit: long		

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

To enter Utilities mode 1,

while pressing both performance pad 1 and performance pad 4 on the left deck, connect the USB cable to the main unit (main unit is turned on).

Then, can set each item when you press either Effect button, [VINYL (SLIP)] button, [SAMPLER] mode button of the left deck, and either Effect button of the right deck.

(For details, refer to the operating instructions of the unit.)

Sheet for confirmation of the user setting

	Demo mode setting			
With the sync mode set	Without the sync mode set	Function disabled	enabled	disabled

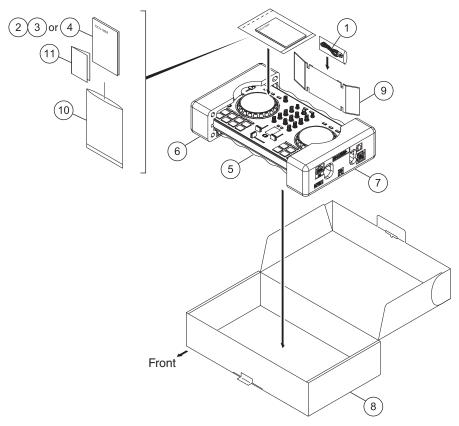
Jog dial MIDI message sending interval setting					Back	spin length s	setting			
3 ms	4 ms	5 ms	6 ms	7 ms	9 ms	11 ms	13 ms	short	normal	long

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 extstyle extstyle
- 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.	<u>Description</u>	Part No.	Mark	No.	<u>Description</u>	Part No.	
1	USB Cable	DDE1128		4	Operating Instructions	See Contrast table (2)	
2	Operating Instructions	See Contrast table (2)			(Quick Start Guide)		
	(Quick Start Guide)			5	Packing Sheet	AHG7053	
3	Operating Instructions	See Contrast table (2)		6	Pad	DHA1927	
	(Quick Start Guide)			7	Pad	DHA1928	
				8	Packing Case	See Contrast table (2)	_
				9	Partition/ACC	DHC1085	Е
			NSP	10	Polyethylene Bag	AHG7117	
			NSP	11	Warranty	See Contrast table (2)	

(2) CONTRAST TABLE

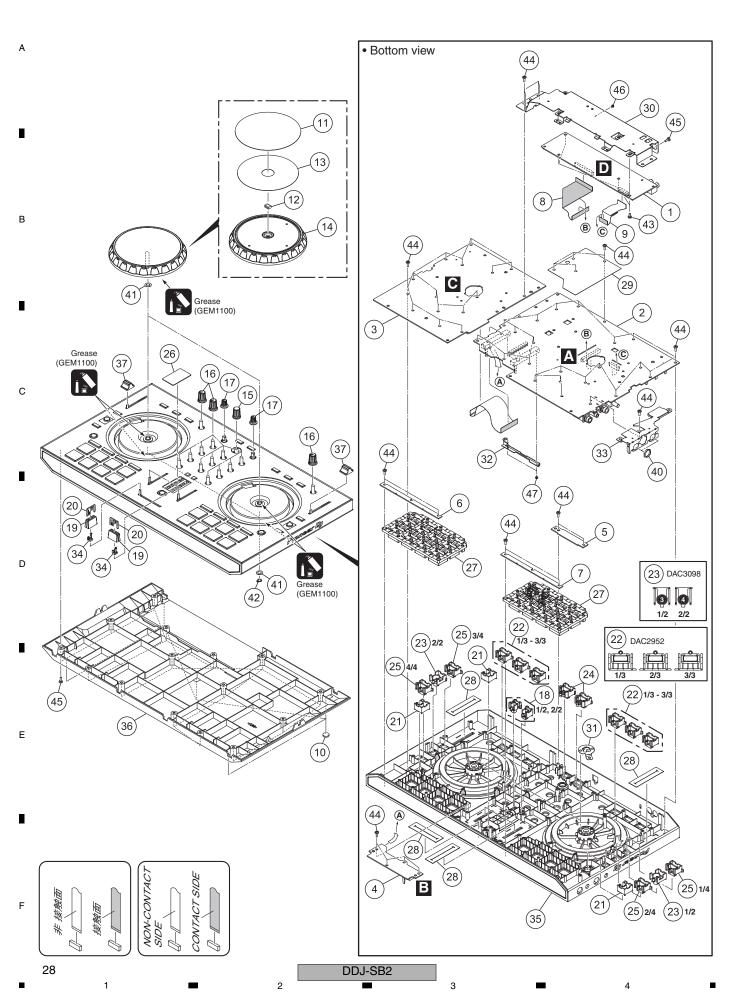
DDJ-SB2/SXJ and XJCN are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-SB2/SXJ	DDJ-SB2/XJCN
	2	Operating Instructions (Quick Start Guide)(En, Fr, De, It, NI)	DRH1317	Not used
	3	Operating Instructions (Quick Start Guide)(Es, Pt, Ru, Ja)	DRH1318	Not used
	4	Operating Instructions (Quick Start Guide)(Zhcn)	Not used	DRH1319
	8	Packing Case	DHG3423	DHG3424
NSP	11	Warranty	ARY7158	Not used

■ 6 ■ 7

DDJ-SB2

9.2 EXTERIOR SECTION



EXTERIOR SECTION PARTS LIST

D ! !!	Barri M
	Part No.
=	DWX3569
	DWX3740
•	DWX3741
	DWX3742
HOLD1 Assy	DWX3743
HOLD2-1 Assy	DWX3787
HOLD2-2 Assy	DWX3788
FFC	ADD7796
FFC/19P	DDD1671
Rubber Foot	VEB1349
Plate	DAH3038
	DEC3539
	DEH1042
	DNK6346
	DAA1273
Diai Kilob 3 (b)	DANIZIO
Knah/DLC	DAA1204
	DAA1324
	DAA1351
	DAC2662
	DAC2684
Slider Knob 2	DAC2685
Button/MIX	DAC2951
Button/OPL	DAC2952
Button	DAC3098
Button	DAC3151
Button	DAC3152
Plate	DAH3036
	DEB2016
	DEC3355
-	DEC3543
Stay	DNH3240
Distriction	D111040=
	DNH3137
	DNH3146
	DNH3218
Stopper/SLD	DNK6009
Control Panel	DNK6454
Chassis	DNK6471
Knob	DNK6530
••••	
••••	
	NKX2FNI
(
Washer	WA62D095D050
	YC60FAC
	BBZ30P060FTC
	BPZ30P080FNI
Screw	BPZ30P100FTB
OCICW	B. 2001 1001 1B
Screw (M3*5)	DBA1340
	HOLD2-1 Assy HOLD2-2 Assy FFC FFC/19P Rubber Foot Plate Gasket/JOG DS Tape/JOG Jog Dial Dial Knob S (B) Knob/PLS Knob Button S (Opal) Slider Knob 1 Slider Knob 2 Button/MIX Button/OPL Button Button Plate Button Fader Packing Sheet/PNL Stay Plate/CND Plate/CHF Stay Stopper/SLD Control Panel Chassis Knob Nut (M12) Washer Washer Screw Screw

DDJ-SB2

В

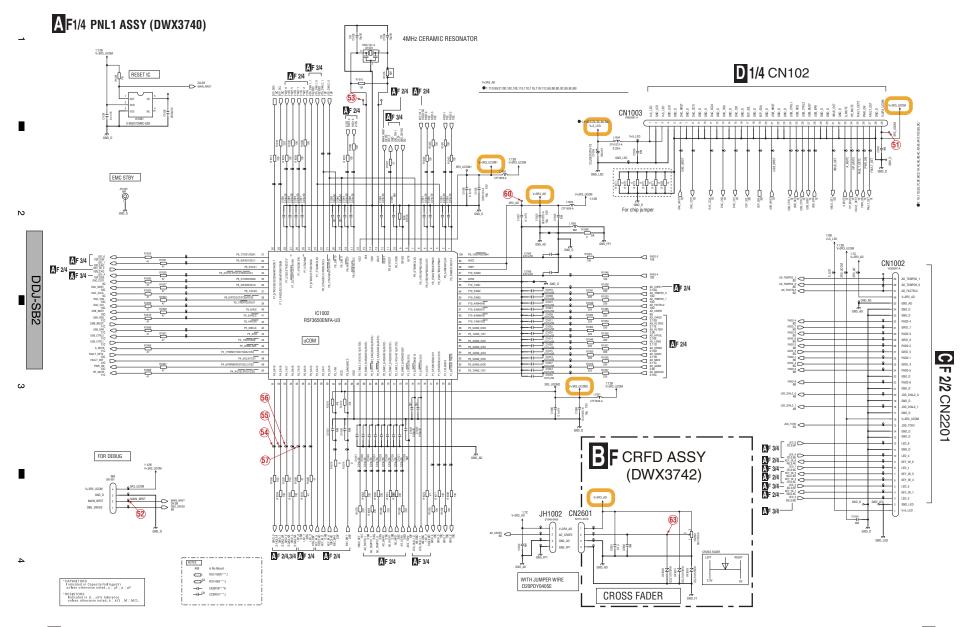
Ε

29

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47 Screw

PMH20P040FTC

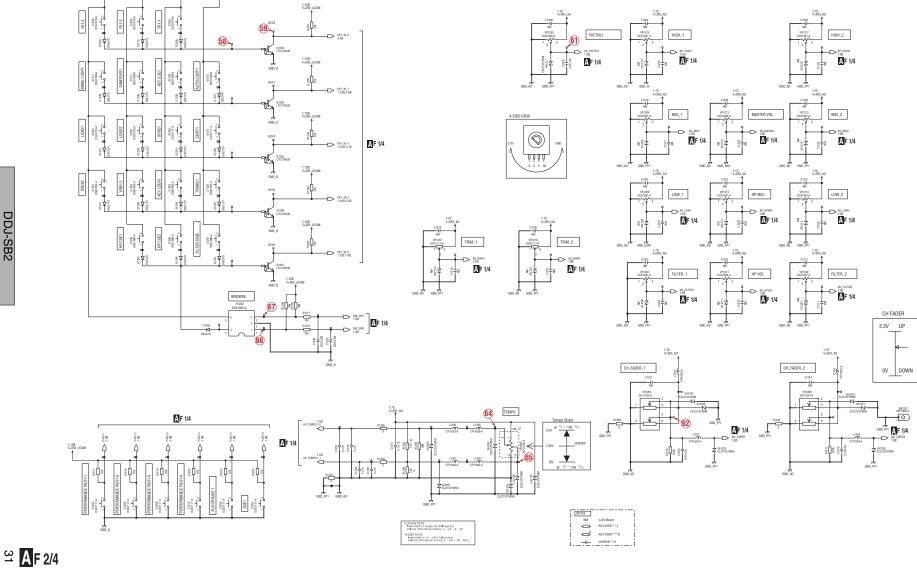


A F 1/4

A F 1/4

A F 2/4

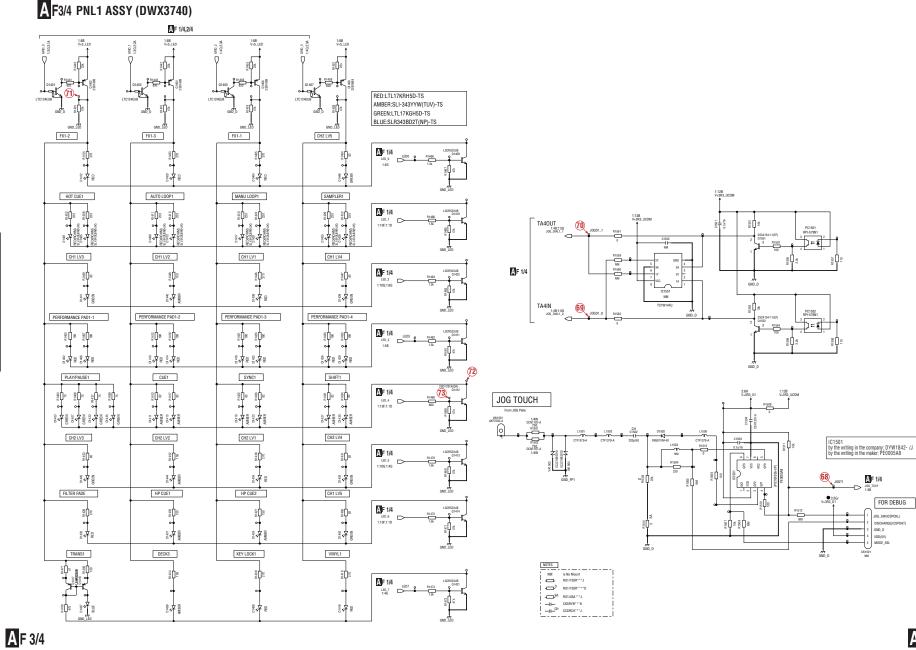
A F2/4 PNL1 ASSY (DWX3740)



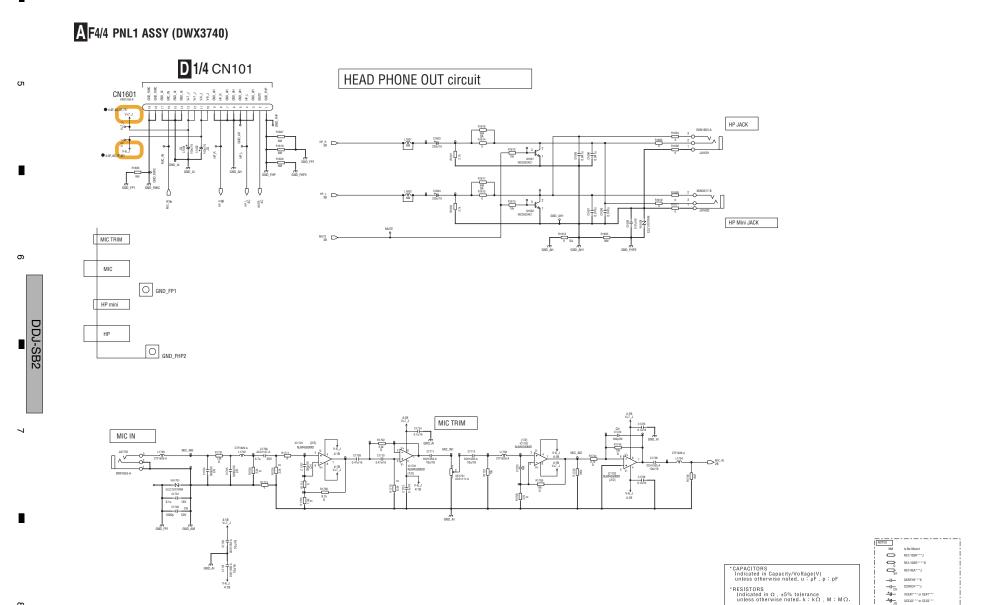
D

C

32

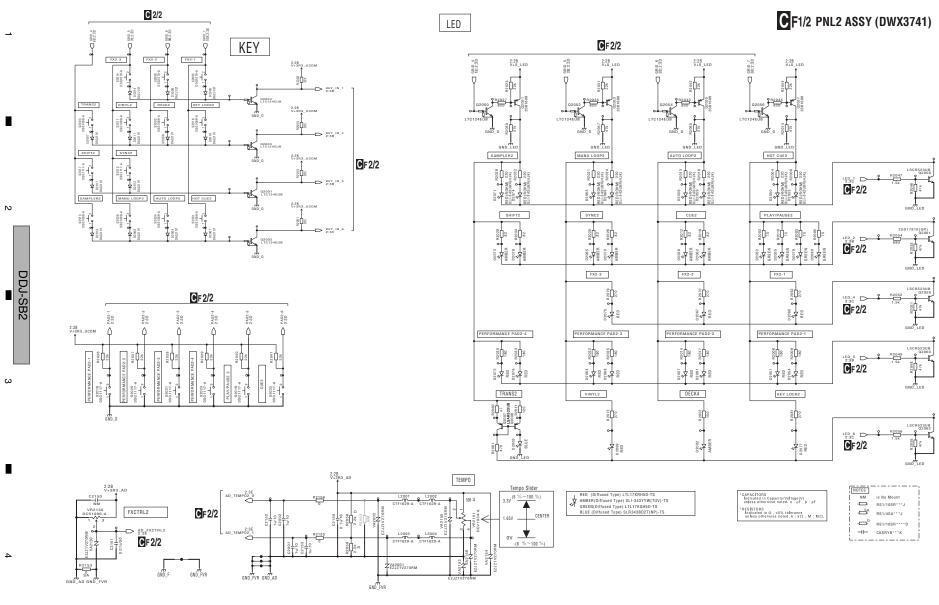


C



⇔ A F 4/4





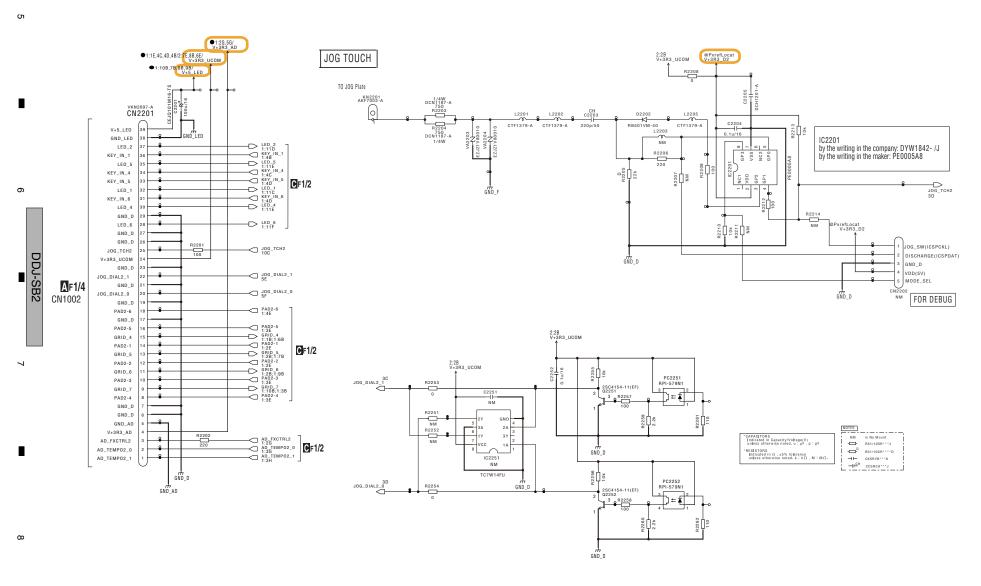
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C F 1/2

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CF2/2 PNL2 ASSY (DWX3741)



C F 2/2

G F 2/2

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D

C

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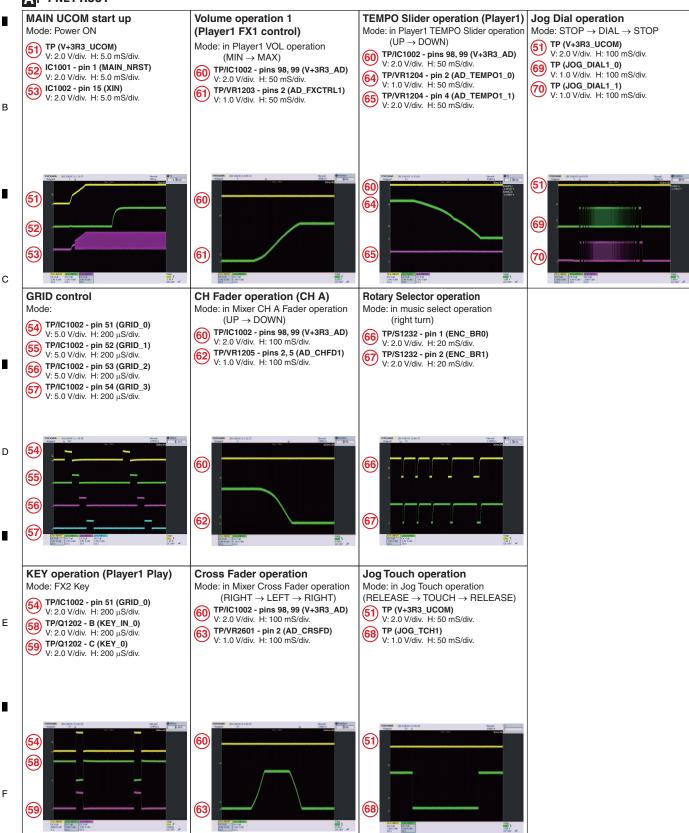
10.11 WAVEFORMS

A Note:

The indicated voltage values of the oscilloscope in this section are reference values and may vary, depending on the settings of the oscilloscopes and probes.

The numerics circled with a frame denote numbers for the measurement points indicated in the Schematic diagrams and PCB diagrams.

AF PNL1 ASSY



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DDJ-SB2

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AF PNL1 ASSY

LED drive (1)

Mode: All LED light

- **TP/IC1002 pin 51 (GRID_0)** V: 5.0 V/div. H: 200 μS/div.
- 71 Q1402 C (V+5LED_GRID0) V: 5.0 V/div. H: 200 μS/div.
- 72 Q1412 C (GND_LED4) V: 2.0 V/div. H: 200 μS/div.
- V: 2.0 V/div. H: 200 μS/div.

 73 Q1412 B (LED_4)
 V: 2.0 V/div. H: 200 μS/div.

LED drive (2)

Mode: All LED lit off

- **TP/IC1002 pin 51 (GRID_0)** V: 5.0 V/div. H: 200 μS/div.
- Q1402 C (V+5LED_GRIDO) V: 5.0 V/div. H: 200 μS/div.
- Q1412 C (GND_LED4) V: 2.0 V/div. H: 200 μS/div.
- **Q1412 B (LED_4)** V: 2.0 V/div. H: 200 μS/div.



LED drive (3)

Mode: one LED right (only Player 1)

- **TP/IC1002 pin 51 (GRID_0)** V: 5.0 V/div. H: 200 μS/div.
- 71 Q1402 C (V+5LED_GRID0) V: 5.0 V/div. H: 200 μS/div.
- **Q1412 C (GND_LED4)**V: 2.0 V/div. H: 200 μS/div.
- **Q1412 B (LED_4)** V: 2.0 V/div. H: 200 μS/div.



Α

В

С

D

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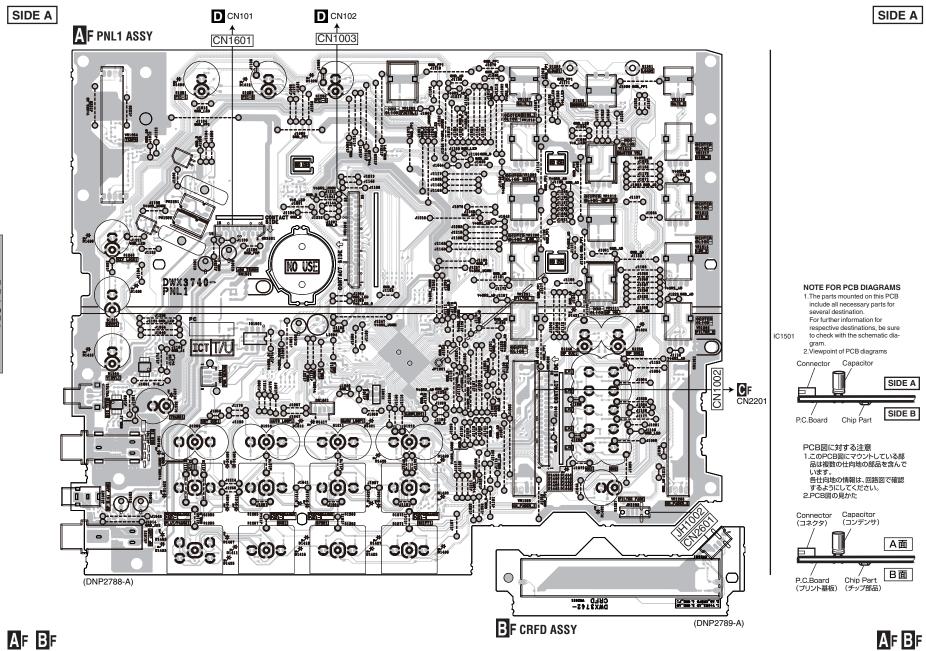
37

DDJ-SB2

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DDJ-SB2



PCB CONNECTION DIAGRAM

ω

SIDE B SIDE B AF PNL1 ASSY 67 66 51 CN1003 71 CN1601 Q1402 Q1406 Q1401 Q1405 Q1552 Q1206 Q1421 Q1207 Q1202 IC1002 IC1702 Q1413 IC1001 Q1422 Q1414 Q1203 Q1411 Q1412 Q1601 Q1602 (DNP2788-A) $\triangleright \bigcirc$ (DNP2789-A) BF CRFD ASSY 8 AF BF A F B F

C

12. PCB PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

• The extstyle extstyleTherefore, when replacing, be sure to use parts of identical designation.

• When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47 k ohm (tolerance is shown by J = 5%, and K = 10%).

 56×10^{1} \rightarrow 561 ······RD1/4PU 5 6 1 J 560Ω $47 \times 10^3 \rightarrow 473 \cdots RD1/4PU[4] \boxed{7} \boxed{3} J$ $47 k\Omega$ \rightarrow R50 RN2HR 3 0 K 0.5Ω 1Ω

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors). $5.62 \text{ k}\Omega \rightarrow 562 \times 10^{\overline{1}} \rightarrow 5621 \cdots RN1/4PC \text{ } \overline{0} \text{ } \overline{2} \text{ } \overline{1} \text{ } F$

Mark No. Description	Part No.	Mark No. Description	Part No.	В
NSP 1PNL1 ASSY 2PNL1 ASSY 2HOLD2-1 ASSY	DWM2593 DWX3740 DWX3787	NSP 1PNL2 ASSY 2PNL2 ASSY 2CRFD ASSY 2HOLD1 ASSY 2HOLD2-2 ASSY	DWM2579 DWX3741 DWX3742 DWX3743 DWX3788	
		1IFPW ASSY	DWX3569	

DDJ-SB/SXJ5, DDJ-SB2/SXJ and DDJ-SB2/XJCN are constructed the same except for the following:

Mark	Symbol and Description	DDJ-SB/SXJ5	DDJ-SB2/SXJ	DDJ-SB2/XJCN	Remarks
	1PNL1 ASSY	DWX3570	Not used	Not used	
NSP	1PNL1 ASSY	Not used	DWM2593	DWM2593	
	2PNL1 ASSY	Not used	DWX3740	DWX3740	
	2HOLD2-1 ASSY	Not used	DWX3787	DWX3787	
NSP	1PNL2 ASSY	DWM2526	DWM2579	DWM2579	
	2PNL2 ASSY	DWX3571	DWX3741	DWX3741	
	2CRFD ASSY	DWX3573	DWX3742	DWX3742	
	2HOLD ASSY	DWX3575	Not used	Not used	
	2HOLD1 ASSY	Not used	DWX3743	DWX3743	
	2HOLD2-2 ASSY	Not used	DWX3788	DWX3788	

k No. Description	Part No.	Mark No. Description	Part No.	_
F PNL1 ASSY		D 1226-1229,1251,1253	DA2J101	
		D 1281,1282,1289,1290	DA2J101	
MICONDUCTORS		D 1281,1282,1289,1290	1SS355VM	
IC 1001	S-80927CNMC-G8X	D 1293,1295,1346,1347	DA2J101	
IC 1002	DYW1893	D 1293,1293,1340,1347	1SS355VM	
IC 1501	PE0005A8	D 1293,1293,1340,1347	1999994	
IC 1701,1702	NJM4580MD	D 1401 1405 1400 1410	CLI 242H0D(HHZ)	
Q 1202,1203,1205-1207	LTC124EUB	D 1401,1405,1409,1413	SLI-343U8R(HJK)	
		D 1402,1404,1406,1408	LTL17KRH5D	
Q 1202,1203,1205-1207	RT1N241M	D 1403,1407,1433,1435	LTL17KGH5D	
Q 1401,1403,1405,1407	LTC124EUB	D 1410,1412,1414,1416	LTL17KRH5D	
Q 1401,1403,1405,1407	RT1N241M	D 1411,1415,1419,1423	SLI-343YYW(TUV)	
Q 1402,1404,1406,1408	2SB1689			
Q 1409-1411,1413,1414	2SC4154-11(EF)	D 1417,1421,1425,1428	SLI-343U8R(HJK)	
	, ,	D 1418,1420,1422,1426	LTL17KRH5D	
Q 1409-1411,1413,1414	LSCR523UB	D 1424,1427,1430,1431	SLI-343YYW(TUV)	
Q 1412	2SD1781K(QR)	D 1429,1432,1434,1438	LTL17KRH5D	
Q 1417.1418	LSAR523UB	D 1436,1440,1444	SLI-343YYW(TUV)	
Q 1417.1418	ISA1602AM1(EF)			
Q 1421.1422	LSCR523UB ` ´	D 1437	SLR343BD2T(NP)	
,		D 1439,1441-1443,1445	LTL17KGH5D	
Q 1421,1422,1551,1552	2SC4154-11(EF)	D 1446	LTL17KGH5D	
Q 1601.1602	INC2002AC1	D 1502	RB501VM-40	
D 1201.1202.1208-1210	DA2J101			
D 1201,1202,1208-1210	1SS355VM	<u>MISCELLANEOUS</u>		
D 1226-1229,1251,1253	1SS355VM	L 1001-1003,1201-1208 INDUCTOR	CTF1629	

		1 -	2	3	4
	<u>Mark</u>	No. Description	Part No.	Mark No. Description	Part No.
		L 1004 RAD SPL INDUCTOR	DTH1212	C 1223,1232,1240,1609	CKSRYB103K50
		L 1501,1502,1505 INDUCTOR	CTF1379	C 1502	CCSRCH221J50
Α		L 1702-1705 INDUCTOR	CTF1629	C 1503,1551,1701,1714	CKSRYB104K16
^		JA 1601,1701 6.5 DIA JACK	DKN1653	C 1603,1604	CEAT221M10
		JA 1602 STEREO MINI JACK	XKN3017	C 1605-1608	CKSRYB473K50
		KN 1201,1501 EARTH TERMINAL	AKF7002	C 1702	CCSRCH102J50
		S 1201,1202,1209-1212 TACT SWITCH	DSG1089-	C 1704	CCSRCH561J50
		S 1232 ENCODER	DSX1082	C 1705	CCSRCH332J50
		S 1243,1244,1246,1256 TACT SWITCH	DSG1089	C 1706	ACG1147
		C 1051 1050 1061 TACT CWITCH	D001070	C 1707,1722	CCSRCH331J50
		S 1251,1258-1261 TACT SWITCH S 1252,1253,1265-1268 TACT SWITCH	DSG1079 DSG1117	C 1709.1710	CKSRYB474K16
		S 1257 TACT SWITCH	DSG1089	C 1711,1713,1720,1721	DCH1263
		S 1271,1272 TACT SWITCH	DSG1117	C 1715,1725,1726	CKSRYB104K16
В		X 1001 CERAMIC RESONATOR (4 MHz)	DSS1131	C 1728	DCH1263
		ON 4000 4000 OOD OONNEOTOD	\#\#\@@@\\		
		CN 1002,1003 39P CONNECTOR CN 1601 19P CONNECTOR	VKN2097		
		1001 SHIELD CASE	VKN1250 DNH3219	F CRFD ASSY	
		JH 1002 4P CABLE HOLDER	51048-0400	MISCELLANEOUS	
		JP 1001 JUMPER WIRE	D20PDY0405E	CN 2601 4PJUMPER CONNECTOR	52151-0410
				VA 2601-2603 VARISTORS	EZJZ1V270RM
		PC 1551,1552 PHOTO INTERRUPTER	RPI-579N1		
		VA 1201-1205,1217,1218 VARISTORS VA 1220,1221,1223-1226 VARISTORS	EZJZ1V270RM EZJZ1V270RM	RESISTORS	D0/4000
		VA 1503,1504 SMD VARISTOR	EZJZ1V80010	VR 2601 VARIABLE RESISTOR Other Resistors	DCV1023 RS1/10SR###J
		VA 1601,1701 VARISTORS	EZJZ1V270RM	Other nesistors	N3 I/ IU3N###J
С		,		<u>CAPACITORS</u>	
O	RES	<u>STORS</u>		C 2601	CKSRYB104K16
		VR 1201,1202 POTENTIOMETER	DCS1097		
		VR 1203,1211,1213 POTENTIOMETER VR 1204 SLIDE VR	DCS1096 DCV1034	_	
		VR 1205,1206 VARIABLE RESISTOR	DCV1034 DCV1024	F PNL2 ASSY	
		VR 1207,1216 ROTARY VR	DCS1117	SEMICONDUCTORS	
		,		IC 2201	PE0005A8
		VR 1208-1210,1212 POTENTIOMETER	DCS1097	Q 2001-2004,2050,2052	RT1N241M
		VR 1214,1215,1217 POTENTIOMETER	DCS1097	Q 2001-2004,2050,2052	LTC124EUB
		VR 1701 POTENTIOMETER R 1069,1514,1614,1615	DCS1111 RS1/4SA0R0J	Q 2007,2008	ISA1602AM1
		R 1202,1208	RS1/10SR2201D	Q 2007,2008	LSAR523UB
D		,		Q 2051,2053,2055,2057	2SB1689
_		R 1501,1502	DCN1187	Q 2054,2056	LTC124EUB
		R 1503	RS1/10SR2202D	Q 2054,2056	RT1N241M
		R 1618 R 1701	RS1/4SA0R0J RS1/10SR1501D	Q 2058-2060,2062	LSCR523UB
		R 1702	RS1/10SR3901D	Q 2058-2060,2062,2251	2SC4154-11
_		17 02	1101/1001100011	Q 2061	2SD1781K
		R 1703,1704	RS1/10SR3301D	Q 2252	2SC4154-11
		R 1705	RS1/10SR1801D	D 2001,2004-2009	1SS355VM
		R 1706	RS1/10SR9101D RS1/10SR2700D	D 2001,2004-2009	DA2J101
		R 1708 R 1709,1745	RS1/10SR1002D	D 2002,2058,2062,2065	SLI-343YYW
		11 1703,1743	1101/100111002D	D 2003	CL DO 40 DDOT
Е		R 1710	RS1/10SR6801D	D 2003 D 2011-2014,2016,2017	SLR343BD2T DA2J101
		R 1744	RS1/10SR2701D	D 2011-2014,2016,2017	1SS355VM
		Other Resistors	RS1/10SR###J	D 2050,2053,2056,2059	SLI-343U8R
	040	ACITODO		D 2051,2054,2057,2060	LTL17KRH5D
	CAP	ACITORS C 1001,1005-1007,1213	CKSRYB104K16		.==
		C 1002	CKSRYB222K50	D 2052,2055,2079,2080 D 2061,2064,2067-2069	LTL17KGH5D LTL17KRH5D
		C 1003,1004	CCSRCH150J50	D 2063,2066,2071,2074	SLI-343U8R
		C 1008,1022,1023,1504	DCH1201	D 2070,2073,2078	SLI-343YYW
		C 1009-1021,1024-1029	CKSRYB103K50	D 2072,2075-2077	LTL17KRH5D
		0 1000 1005 1007	01/00/04/00/750		
		C 1033,1035-1037	CKSRYB103K50 CEJQ101M16	D 2202	RB501VM-40
F		C 1038,1601,1602 C 1039-1042	CCSRCH101J50	MICCELLANGOUS	
		C 1044-1056,1205,1215	CKSRYB103K50	MISCELLANEOUS L 2001-2004 INDUCTOR	CTF1629
		C 1207-1210	CKSRYB105K10	L 2201,2202,2205 INDUCTOR	CTF1379
				KN 2201 EARTH TERMINAL	AKF7002
	42		DDJ-SB		
			0		4

<u>Mark</u>	No. Description	Part No.
	S 2001-2004,2008,2011 TACT SWITCH	DSG1089
	S 2005,2009,2014 TACT SWITCH	DSG1079
	S 2012,2017-2023 TACT SWITCH	DSG1117
	S 2013,2016 TACT SWITCH	DSG1089
	CN 2201 39P CONNECTOR	VKN2097
	PC 2251,2252 PHOTO INTERRUPTER	RPI-579N1
	VA 2001,2002,2150 VARISTORS	EZJZ1V270RM
	VA 2153-2156 VARISTORS VA 2203.2204 SMD VARISTOR	EZJZ1V270RM EZJZ1V80010
	•	

RESISTORS

 VR 2150
 POTENTIOMETER
 DCS1096

 VR 2151
 SLIDE VR
 DCV1034

 R 2058,2059
 RS1/10SR2201D

 R 2153
 RS1/4SA0R0J

 R 2203,2204
 DCN1187

 R 2205
 RS1/10SR2202D

 Other Resistors
 RS1/10SR###J

CAPACITORS

C 2001,2002,2152,2153 CKSRYB105K10
C 2151 CKSRYB103K50
C 2155,2204,2252,2601 CKSRYB104K16
C 2201 CEJQ101M16
C 2203 CCSRCH221J50
C 2205 DCH1201

HOLD1 ASSY

There is no service parts.

HOLD2-1 ASSY

There is no service parts.

HOLD2-2 ASSY

There is no service parts.

IFPW ASSY

The supply parts are, refer to Service Manual for DDJ-SB.

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