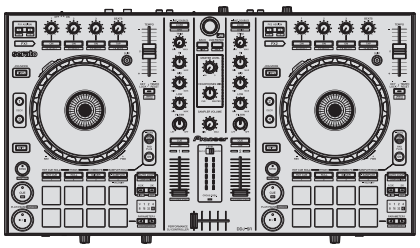
Pioneer

Service Manual



DDJ-SR

ORDER NO.
RRV4499

DJ Controller

DDJ-SR

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

Model	Type	Power Requirement	Remarks
DDJ-SR	CKSUVYXE5	DC 5 V (USB-bus power only)	
DDJ-SR	XECN5	DC 5 V (USB-bus power only)	

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K-MZV NOV. 2013 Printed in Japan

SAFETY INFORMATION

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

WARNING

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

Health & Safety Code Section 25249.6 - Proposition 65

CONTENTS

1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 ºC.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 ºC in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Do NOT use a soldering iron whose tip temperature cannot be controlled.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:
- Parts numbers of lead-free solder:
  GYP1006 1.0 in dia.
  GYP1007 0.6 in dia.
  GYP1008 0.3 in dia.

1.2 NOTES ON PARTS REPLACEMENT

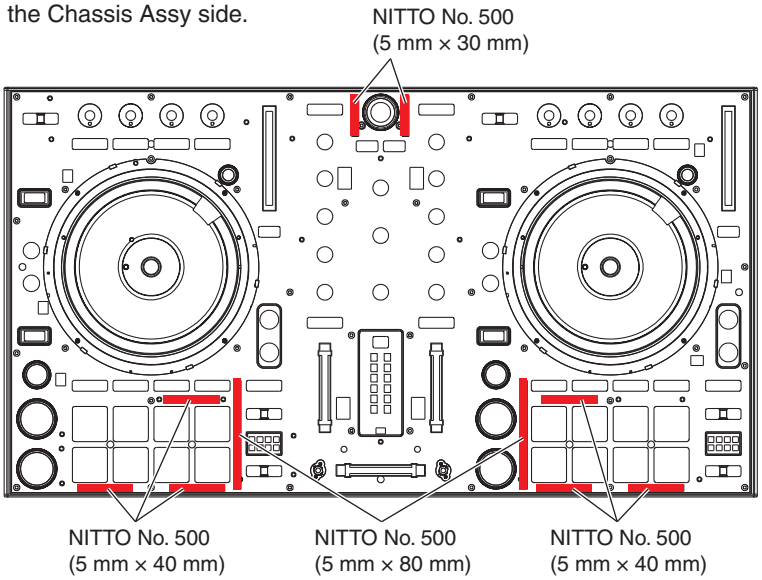
■ Detachment/Reattachment of the front panel

When you replacing Front panel, JW ring, it is necessary to remove Front panel.

When detaching the front panel
The front panel and the Chassis Assy are secured with 10 pieces of double-back tape at the locations shown in the illustration below.
Slowly peel off the tape, taking care that you will not deform the front panel.

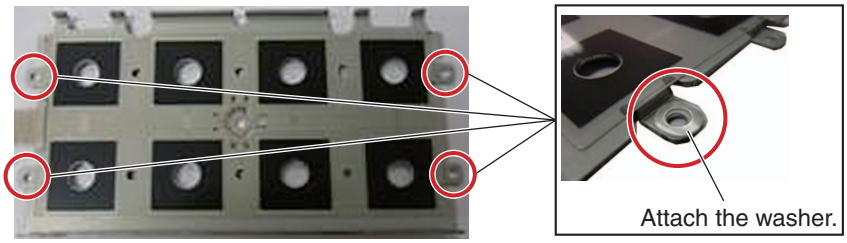
When reattaching the front panel
① Neatly remove any residue of double-back tape from the back of the front panel and the Chassis Assy.
② Stick 10 pieces (5 mm) of NITTO No. 500 double-back tape to the locations shown in the illustration below then remove the paper liner.
Note: Even if double-back tape was not used in the initial state, be sure to attach double-back tape when reattaching the front panel.
Before securing the front panel to the Chassis Assy with screws, never press on the places where the pieces of double-back tape are attached.
Press on the places where the pieces of double-back tape are attached after securing the front panel to the Chassis Assy with screws.

Notes:
- Do not reuse the double-back tape.
- Put the double-back tape on the Chassis Assy side.



Note on Replacement of the Pad & FSR Plate Assy

Four washers have been added to the screw-mounted parts of the Pad & FSR Plate Assy to solve the problem that a performance pad is only pressed halfway although it is fully pressed. This problem was revealed during production.
This emergency measure will be taken care of in the future, but the exact date when the improved products will be produced is not determined yet. At least the first 20,000 products will have the added washers.
The initial service parts for the Pad & FSR Plate Assy will also require attachment of washers.
To prevent the washers from not being attached during replacement of the Pad & FSR Plate Assy with the one for service, the Pad & FSR Plate Assy and the washers are to be enclosed in the same package as a kit.
The part number of the kit for service is GXX1374.
When a new Pad & FSR Plate Assy for service is to be reassembled, be sure to attach the enclosed 4 washers to the screw-mounted parts. (See the figure below.)



Pad & FSR Plate Assy

1.3 ABOUT DEMO MODE

This unit will automatically enter Demo mode if it is left unoperated for 10 minutes in Normal Operation mode, and a demonstration with LED illumination will start.
To cancel this mode, operate any control or button of this unit.
To disable Demo mode, change the setting in the settings of Utilities mode 1. (For details, refer to the operating instructions.)

2. SPECIFICATIONS

General – Main Unit

Power supply ..... DC 5 V
Rated current ..... 500 mA
Main unit weight ..... 4.5 kg (9.9 lb)
Max. dimensions ..... 553.6 mm (W) × 65.3 mm (H) × 319.1 mm (D)
(21.8 in. (W) × 2.6 in. (H) × 12.6 in. (D))
Tolerable operating temperature ..... +5 °C to +35 °C
Tolerable operating humidity ..... 5 % to 85 % (no condensation)

Audio Section

Rated output level
MASTER OUT 1 ..... 4.2 Vrms
MASTER OUT 2 ..... 2.1 Vrms
BOOTH ..... 2.1 Vrms
Total harmonic distortion
MASTER OUT ..... 0.006 %
Frequency characteristic
USB, AUX, MIC ..... 20 Hz to 20 kHz
S/N ratio (when playing on computer)
MASTER OUT ..... 101 dB
Input impedance
AUX ..... 47 kΩ
MIC ..... 10 kΩ
Output impedance
MASTER OUT ..... 1 kΩ
PHONES ..... 32 Ω
USB AUDIO ..... 24 bit/Fs : 44.1 kHz

Input / Output terminals

AUX IN input terminal
RCA pin jacks ..... 1 set
MIC terminal
Phone jack (Ø 6.3 mm) ..... 1 set
BOOTH OUT/MASTER OUT2 output terminal
RCA pin jacks ..... 1 set
MASTER OUT1 output terminal
Phone jack (Ø 6.3 mm) ..... 1 set
PHONES output terminal
Stereo phone jack (Ø 6.3 mm) ..... 1 set
Stereo mini phone jack (Ø 3.5 mm) ..... 1 set
USB terminal
B type ..... 1 set

Accessories

- CD-ROM (Installation Disc)
- USB cable
  (408-SUB-132)
- Read Before Use (Important)/Quick Start Guide
  (DDJ-SR/CKSUVYXE5: 502-DDJSRA-3325A, 502-DDJSRA-3326A)
  (DDJ-SR/XECN5: 502-DDJSRB-3327)
- Warranty (for some regions)
  The included warranty is for the European region.
  - For the North American region, the corresponding information is provided on the last page of both the English and French versions of the “Read Before Use (Important)/Quick Start Guide”.
  - For the Japanese region, the corresponding information is provided on the last page of the Japanese version of the “Read Before Use (Important)/Quick Start Guide”.

3. BASIC ITEMS FOR SERVICE
3.1 CHECK POINTS AFTER SERVICING

Items to be checked after servicing

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

No.	Procedures	Check points
1	Check the firmware version.	The firmware version must be the latest one. If it is not the latest one, be sure to update it.
2	Confirm that the customer complaint has been resolved. If the problem pointed out by the customer occurs with a specific source or operation, such as PC input, AUX/MIC input, Fader, or VOL, input that specific source then perform that specific operation for checking.	The symptoms in question must not be reproduced. There must be no abnormality in audio signals or operations.
3	Check operations of the operating elements. Enter Service mode.	There must be no errors in operations of each button, the jog dial, LEDs, VOL, fader control, and rotary encoder.
4	Check the analog audio output. Connect this unit with a PC with the DJ application (Serato DJ) installed, via USB, then play back audio.	There must be no errors, such as noise, in audio signals and operations of the MASTER/HEADPHONES outputs.
5	Check the analog audio input. Input an audio signal via AUX/MIC.	There must be no abnormality in audio signals or operations.
6	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

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

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

3.2 JIGS LIST

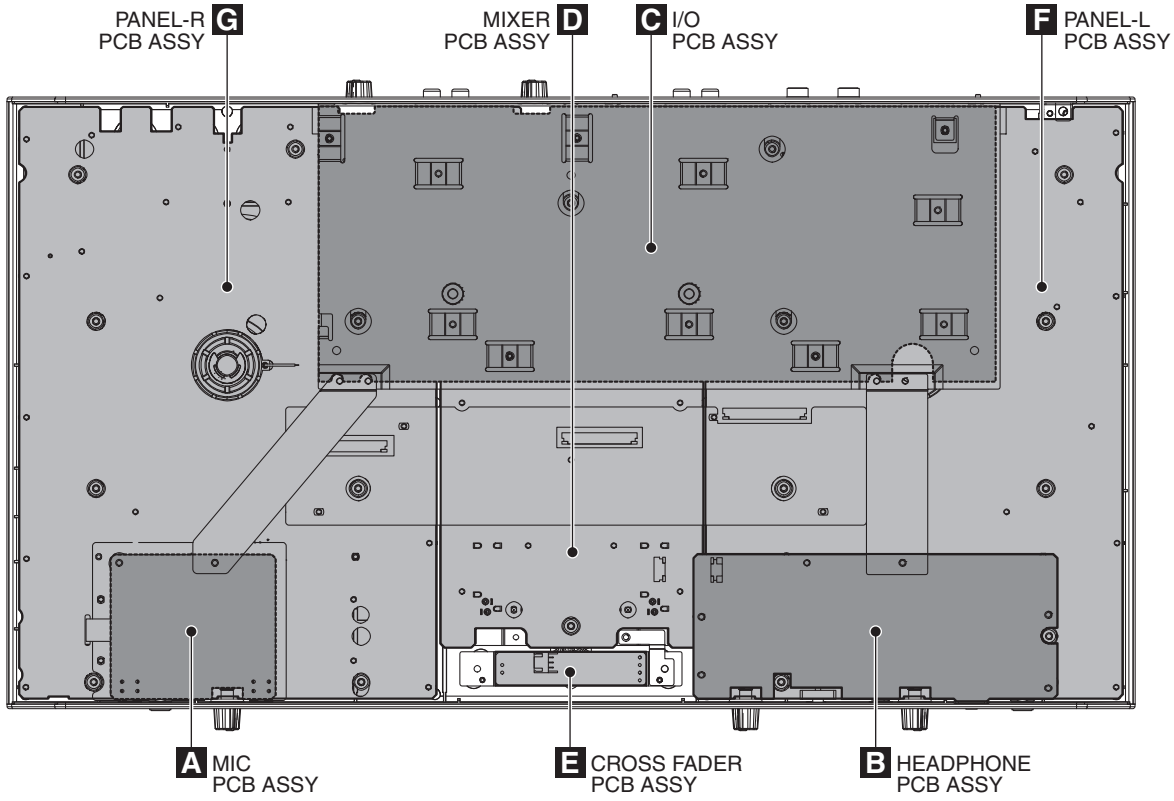
■ Jigs List

Jig Name	Part No.	Purpose of use / Remarks
USB cable	GGP1193	for PC connection

■ Lubricants and Glues List

Name	Part No.	Remarks
Adhesive	GYL1001	Refer to “7. DISASSEMBLY”.
Grease	GEM1096	Refer to “7. DISASSEMBLY”.

3.3 PCB LOCATIONS



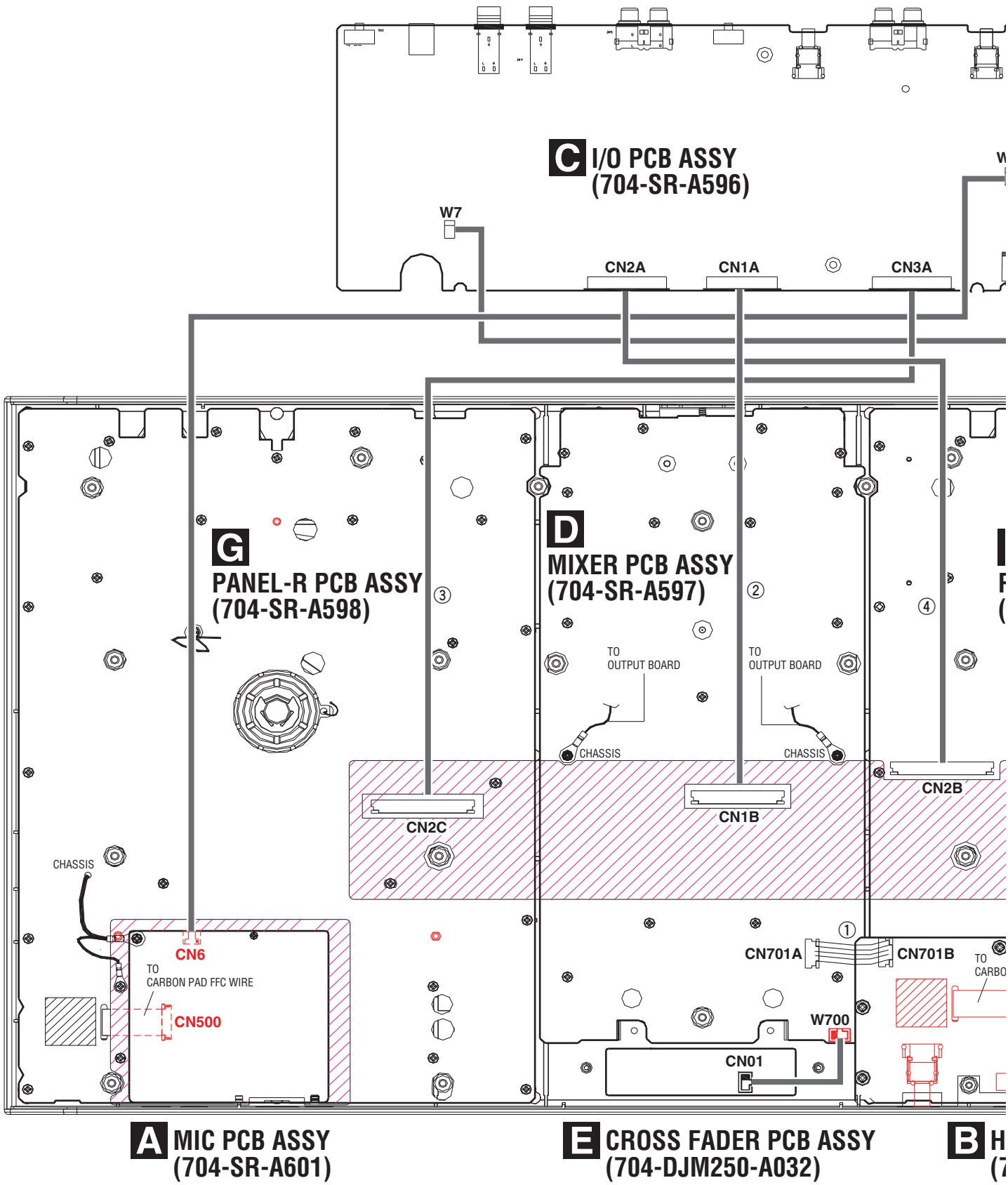
• Bottom view

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

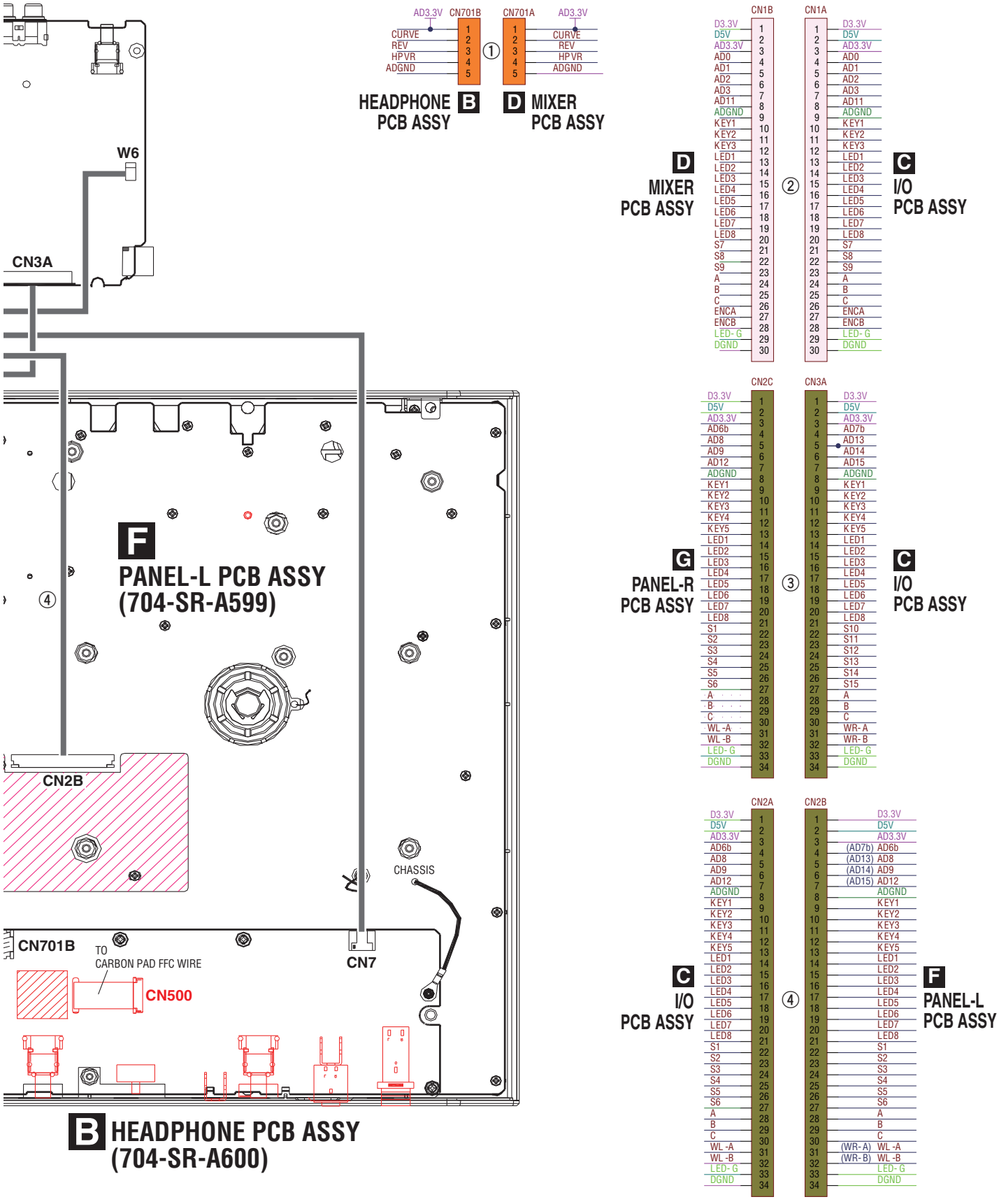
LIST OF ASSEMBLIES

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
		MIC PCB ASSY	704-SR-A601			PANEL-L PCB ASSY	704-SR-A599
		HEADPHONE PCB ASSY	704-SR-A600			PANEL-R PCB ASSY	704-SR-A598
		I/O PCB ASSY	704-SR-A596				
		MIXER PCB ASSY	704-SR-A597				
		CROSS FADER ASSY	704-DJM250-A032				

4. BLOCK DIAGRAM
4.1 OVERALL WIRING DIAGRAM

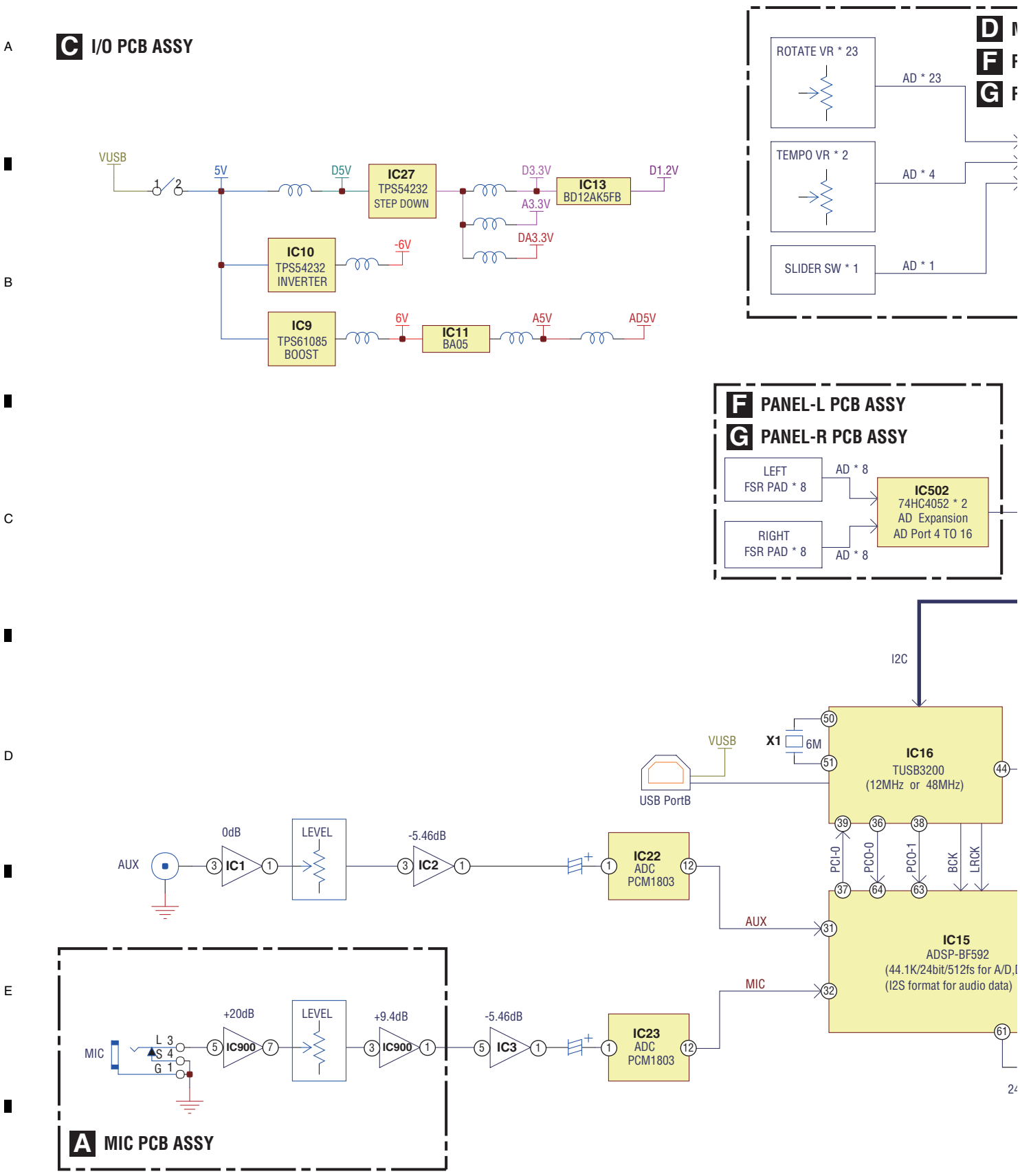


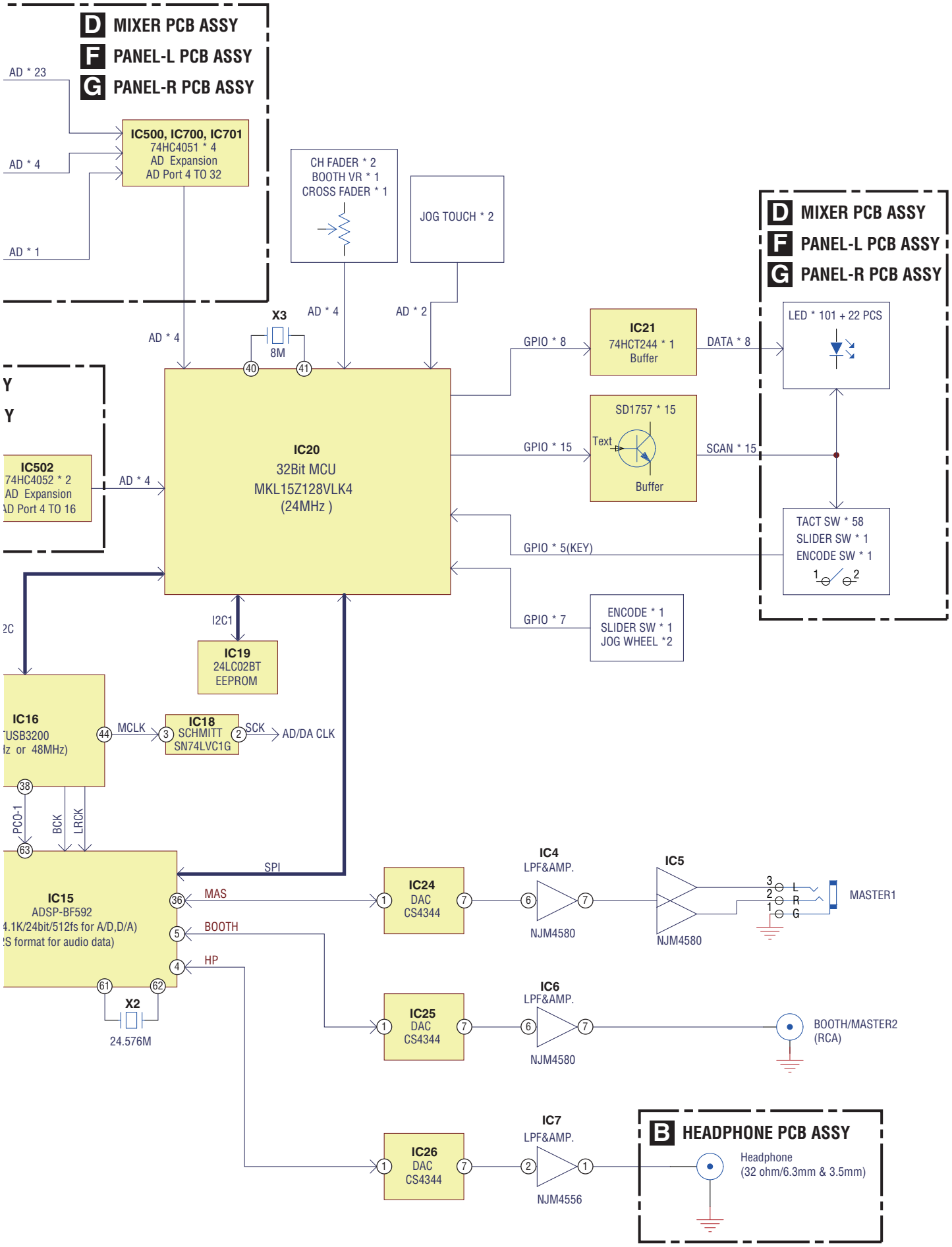
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.



- 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。

4.2 OVERALL BLOCK DIAGRAM



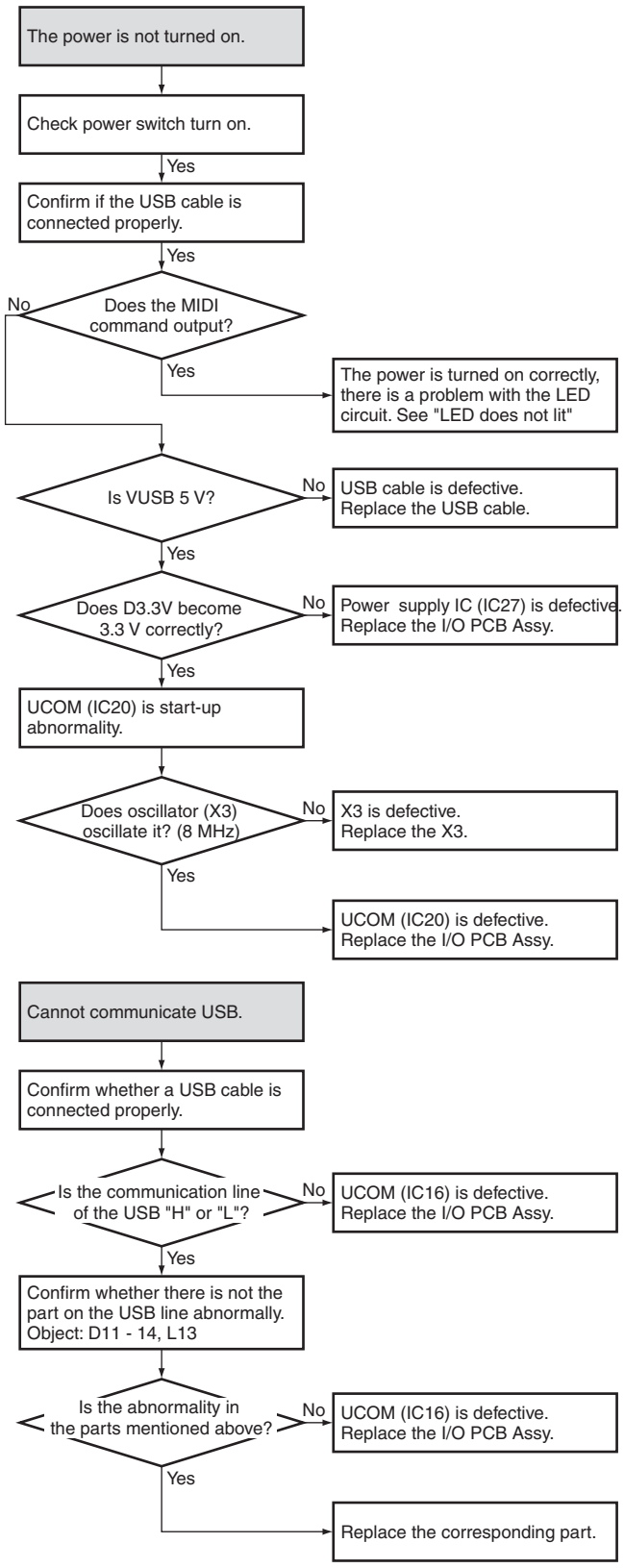

D MIXER PCB ASSY
F PANEL-L PCB ASSY
G PANEL-R PCB ASSY
AD * 23
AD * 4
AD * 1
IC500, IC700, IC701
74HC4051 * 4
AD Expansion
AD Port 4 TO 32
CH FADER * 2
BOOTH VR * 1
CROSS FADER * 1
JOG TOUCH * 2
AD * 4
AD * 4
AD * 2
X3
8M
40
41
IC20
32Bit MCU
MKL15Z128VLK4
(24MHz)
IC502
74HC4052 * 2
AD Expansion
AD Port 4 TO 16
AD * 4
GPIO * 8
IC21
74HCT244 * 1
Buffer
DATA * 8
LED * 101 + 22 PCS
GPIO * 15
SD1757 * 15
Text
Buffer
SCAN * 15
TACT SW * 58
SLIDER SW * 1
ENCODE SW * 1
GPIO * 5(KEY)
GPIO * 7
ENCODE * 1
SLIDER SW * 1
JOG WHEEL *2
I2C1
IC19
24LC02BT
EEPROM
IC16
USB3200
z or 48MHz)
44
MCLK
IC18
SCHMITT
SN74LVC1G
3
2
SCK
AD/DA CLK
38
PCO-1
BCK
LRCK
63
IC15
ADSP-BF592
4.1K/24bit/512fs for A/D,D/A)
S format for audio data)
SPI
36
MAS
5
BOOTH
4
HP
61
62
X2
24.576M
IC24
DAC
CS4344
IC4
LPF&AMP.
NJM4580
IC5
NJM4580
3
2
1
L
R
G
MASTER1
IC25
DAC
CS4344
IC6
LPF&AMP.
NJM4580
BOOTH/MASTER2
(RCA)
IC26
DAC
CS4344
IC7
LPF&AMP.
NJM4556
B HEADPHONE PCB ASSY
Headphone
(32 ohm/6.3mm & 3.5mm)

5. DIAGNOSIS
5.1 TROUBLESHOOTING

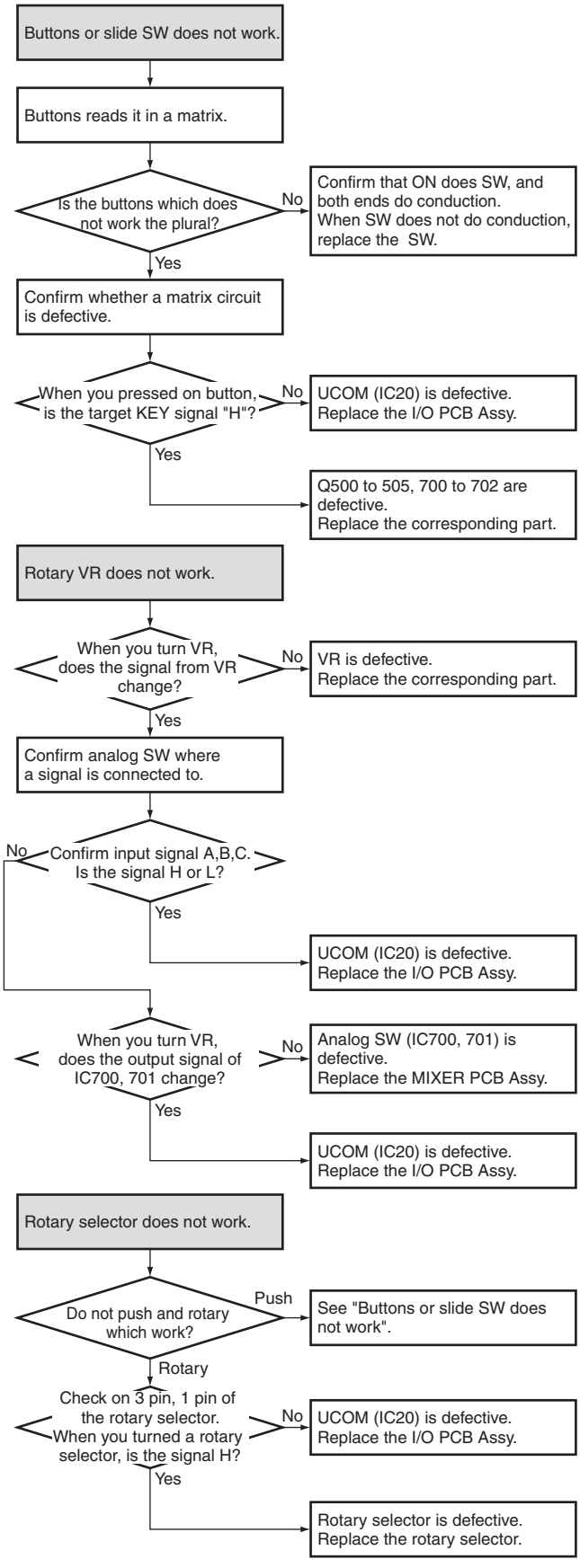
[0] Service mode

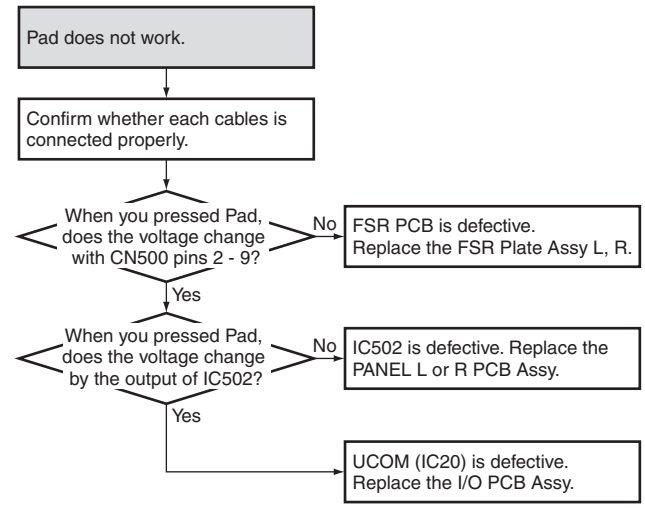
Conduct diagonosis on troubles using Service mode.

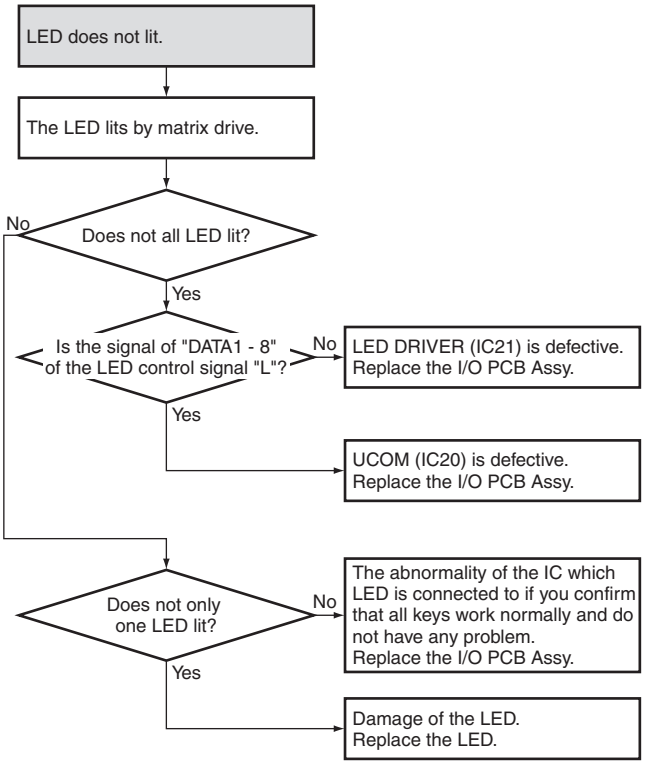
[1] Troubles of starting system and communication



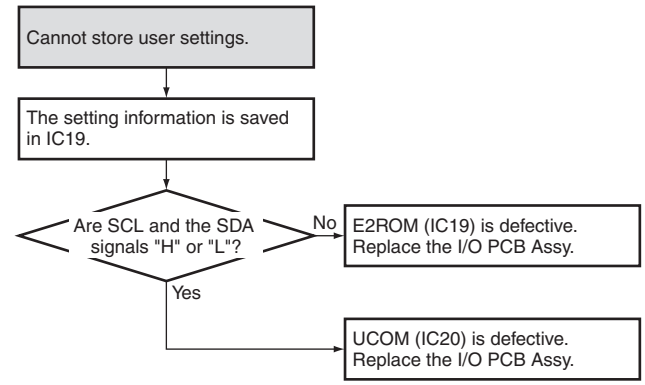
[2] Troubles of operation element and LED



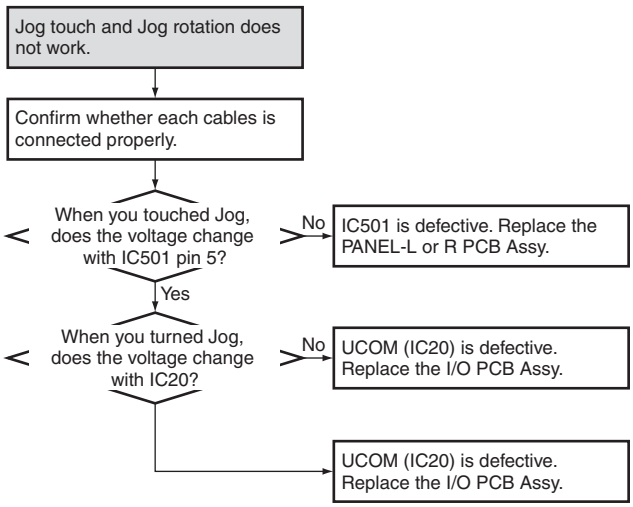




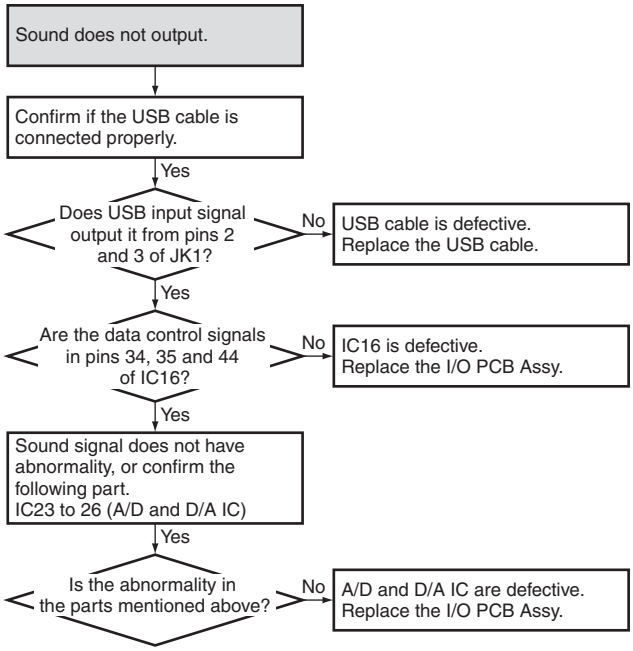
[3] Troubles of settings



[4] Troubles of Jog touch and Jog rotation



[5] Troubles of sound input and output



5.2 BASIC OPERATION CHECK USING SERATO DJ

[Installation of Serato DJ]

A brief explanation of how to install Serato DJ 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 is shown below.

Minimum operating environment

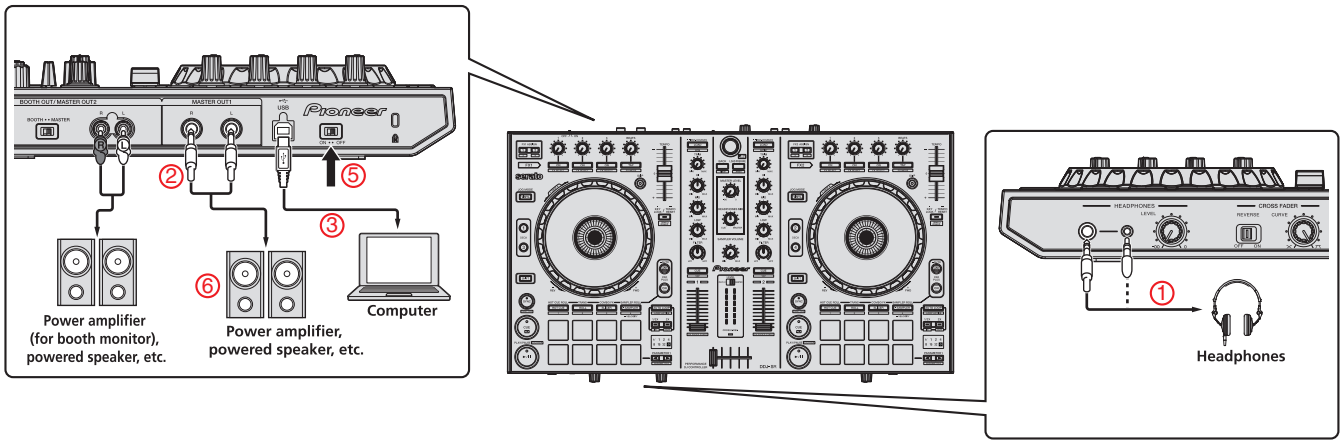
Supported operating systems		CPU and required memory
Mac OS X: 10.8, 10.7 and 10.6	32-bit version	Intel® processor, Core™ 2 Duo 2.0 GHz or better
		1 GB or more of RAM
	64-bit version	Intel® processor, Core™ 2 Duo 2.4 GHz or better
		4 GB or more of RAM
Windows: Windows 7	32-bit version	Intel® processor, Core™ 2 Duo 2.0 GHz or better
		2 GB or more of RAM
	64-bit version	Intel® processor, Core™ 2 Duo 2.4 GHz or better
		4 GB or more of RAM

Others	
Optical drive	Optical disc drive on which the CD-ROM can be read
USB port	A USB 2.0 port is required to connect the computer with this unit.
Display resolution	Resolution of 1 280 x 720 or greater
Internet connection	An Internet connection is required for registering the "Serato.com" user account and downloading the software.

- For the latest information on the required operating environment and compatibility as well as to acquire the latest operating system, refer to "Software Info" under "DDJ-SR" on the Pioneer DJ support site below.
  http://pioneerdj.com/support/
- Operating System support assumes you are using the latest point release for that version.

For the latest version of the Serato DJ 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 installer.

[Connections]



[Operating procedures]

① Connect headphones to one of the [HEADPHONES] terminals.
② Connect powered speakers, a power amplifier, components, etc., to the [MASTER OUT 1] or [BOOTH OUT/MASTER OUT 2] terminals.
③ Connect this unit to your computer via a USB cable.
④ Turn on the computer's power.
⑤ Switch the [ON/OFF] switch on this unit's rear panel to the [ON] side to turn this unit's power on.
⑥ Turn on the power of the devices connected to the output terminals (powered speakers, power amplifier, components, etc.).

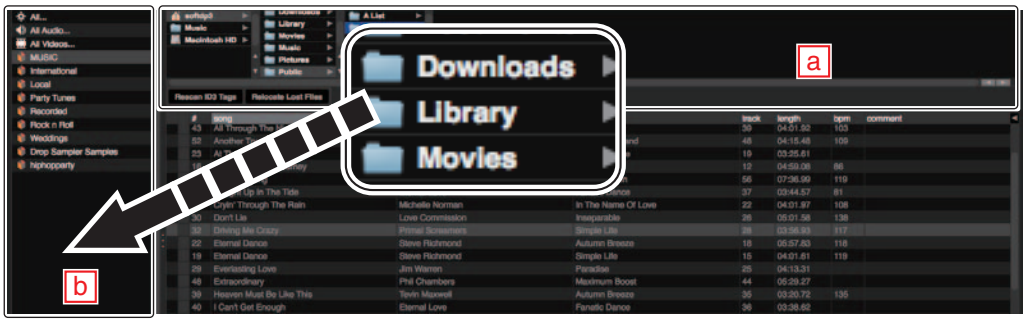
Starting the system

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

When Serato DJ is launched after it is installed, a yellow icon saying “BUY/ACTIVATE” might be displayed in the License panel on the right side of the Serato DJ screen.
DDJ-SR users do not have to activate or buy Serato DJ.
If you tick the check box of [DO NOT SHOW AGAIN] and click [Online], the icon will disappear thereafter.

Importing tracks

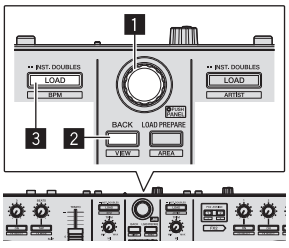
① Click the [Files] key on the Serato DJ software screen to open the [Files] panel.
② Click the folder on the [Files] panel containing the tracks you want to add to the library to select it.
③ On the Serato DJ software screen, drag and drop the selected folder to the crates panel.



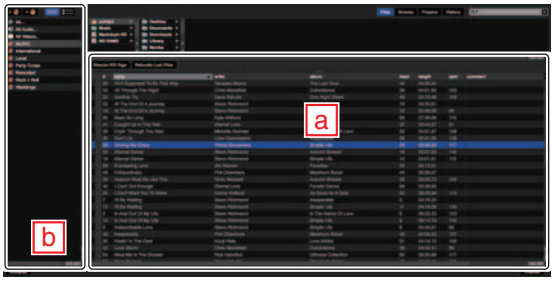
a : [Files] panel
b : Crates panel

Loading tracks and playing them

① Press this unit’ s [BACK (VIEW)] button, move the cursor to the crates panel on the computer’ s screen, then turn the rotary selector to select the crate, etc.
② Press the rotary selector, move the cursor to the library on the computer’ s screen, then turn the rotary selector and select the track.
③ Press the [LOAD] button to load the selected track onto the deck.



1 Rotary selector
2 BACK (VIEW) button
3 LOAD button

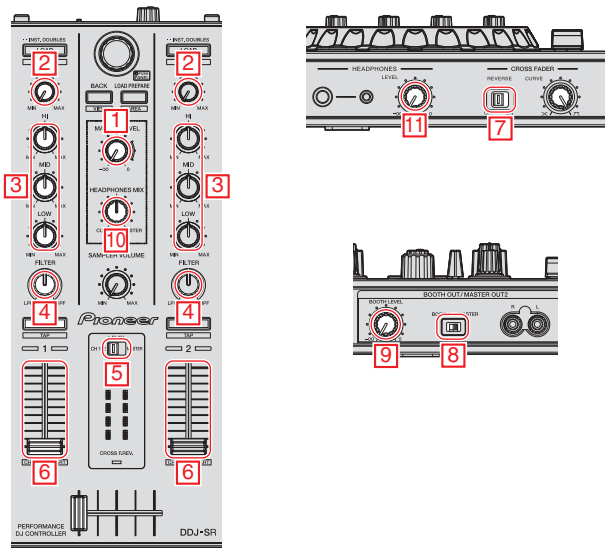


a : Library
b : Crates panel

Playing tracks and outputting the sound

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

Names of controls, etc.		Position
MASTER LEVEL control	1	Turned fully counterclockwise
TRIM control	2	Turned fully counterclockwise
EQ (**HI**, **MID**, **LOW**) controls	3	Center
FILTER control	4	Center
Level indicator switch	5	[**CH1/2**] position
Channel fader	6	Moved forward
CROSS FADER REVERSE switch	7	[**OFF**] position
BOOTH/MASTER selector switch	8	[**MASTER**] position
BOOTH LEVEL control	9	Turned fully counterclockwise



② Press the [▶/❚❚] button to play the track.
③ Move the channel fader away from you.
④ Turn the [TRIM] control.
Adjust [TRIM] so that the orange indicator on the channel level indicator lights at the peak level.
⑤ Turn the [MASTER LEVEL] control to adjust the audio level of the speakers.

Monitoring sound with headphones

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

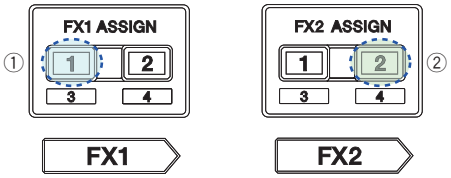
Names of controls, etc.		Position
HEADPHONES MIX control	10	Center
HEADPHONES LEVEL control	11	Turned fully counterclockwise

6. SERVICE MODE
6.1 SERVICE MODE

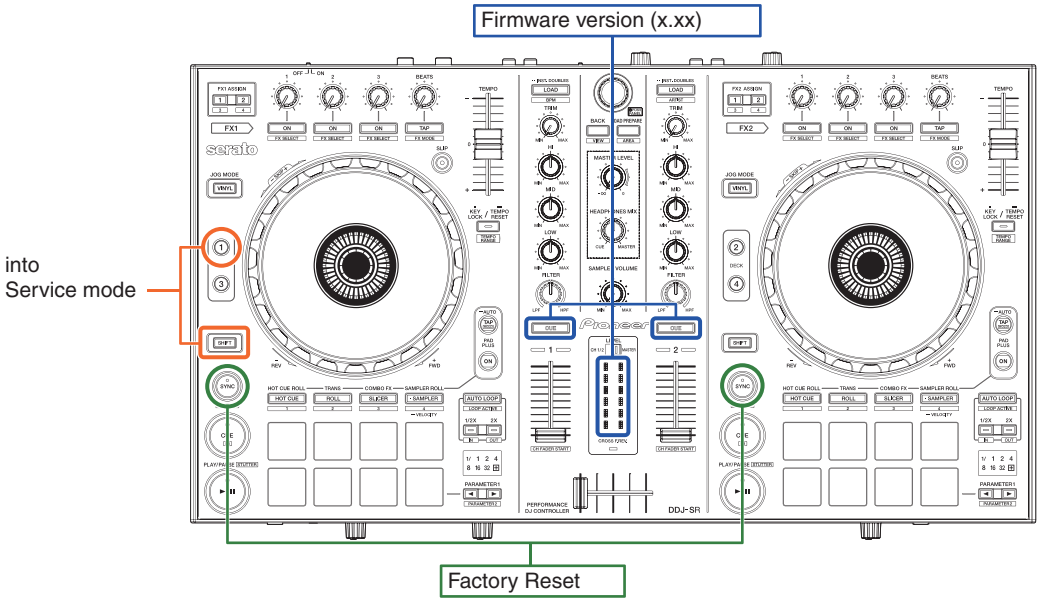
[1] Error Alarming

If unusual detection is occurred during Power on or working, Indicate notice by LED.

	Error	LED	Remarks
①	Abnormalities in FLASH-ROM of MAIN_UCOM	The "FX1 Assign" LED of Deck1 Blinks in a cycle of 1 second.	When update goes wrong and FLASH-ROM is not written correctly, it will be in this state. If the last update failured, the LED blinks when next Power-on. Perform updating again. If this error warning persists, replace the USB cable. If this error warning persists more, replace the I/O PCB Assy.
②	Abnormalities of USB controller	The "FX2 Assign" LED of Deck4 Blinks in a cycle of 1 second.	When the time when it cannot communicate with USB controller correctly although USB cable is connected at the time of starting, it will be in this state. Replace the USB cable. If this error warning persists, replace the I/O PCB Assy.



[2] Service mode



[Method to enter]

Press and hold the left DECK "SHIFT" button and the left "DECK 1" button, then Power-ON.
The firmware version is displayed first. LED except it turn off.

[Method to exit]

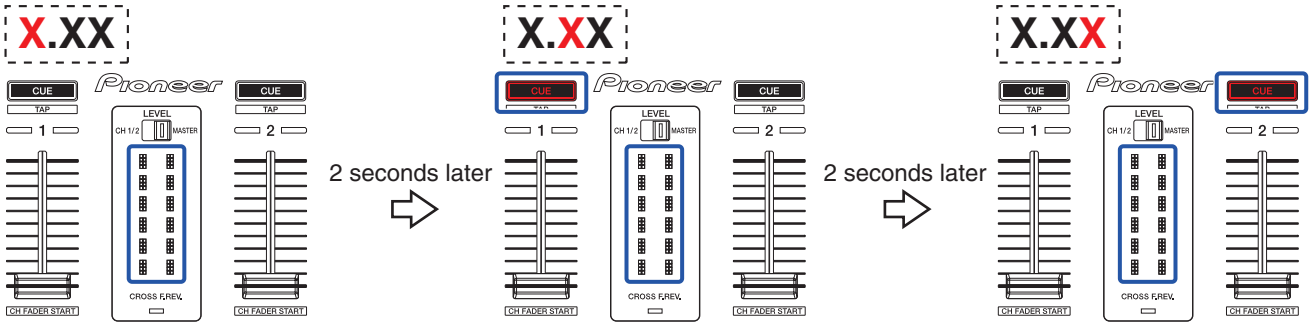
Power-OFF

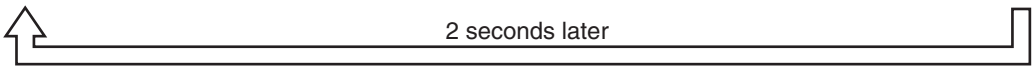
[Note]

When in this mode, the firmware version display appear first.
In this mode, it does not work to communicate with computer via USB.
In this mode, LED dimmer is not available.

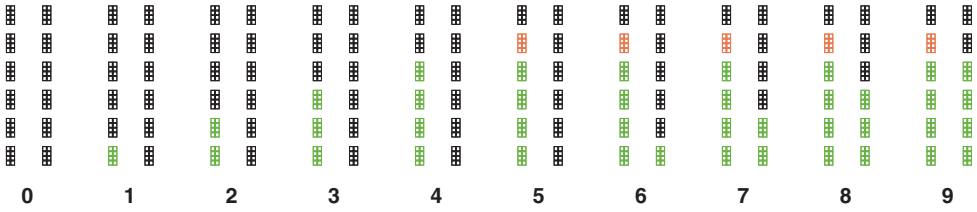
1. Check of the Firmware Version

The format of the firmware version is "x.xx". (x: decimal)
It is displayed by the Headphone CUE/TAP buttons (Deck1 / Deck 2) and Level indicator.
The firmware display the three-digit every 2 seconds in three times.
The digits express by Headphone CUE/TAP buttons, and the numbers express by Level Indicator.



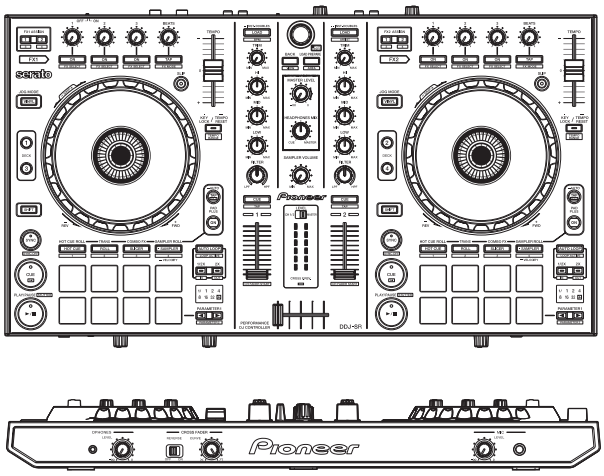


[Numerics expressed with the number of lit LEDs]



2. Check of UI parts & LED

After checking the firmware version, you can check if each UI parts (button/jog dial/knob/fader etc.) are not abnormal.
All UI parts of top&front panel are objects to check.



LED lighting specification for parts type

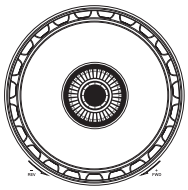
Parts type	UI Parts Name	Function	LED to check
Jog dial (rotate operation)		Turn	"Level indicator" LED (*1)
Level indicator switch		Slide	"Level indicator" LED (*1)
Volume knob, TEMPO slider		Turn	"Level indicator" LED (*2)
Channel fader		Slide	"Level indicator" LED (*3)
Cross fader		Slide	"Beat indicator" LED (*4)
CROSS FADER REVERSE switch		Slide	"CROSS F. REV. indicator" LED (*5)
Push switches (without LED)	Rotary selector	Press	All LED (*6)
	BACK (VIEW) button		"Headphones CUE/TAP button" LED (Deck 1)
	LOAD PREPARE (AREA) button		"Headphones CUE/TAP button" LED (Deck 2)
	Jog dial (touch operation) (Deck 1)		Level indicator left side
	Jog dial (touch operation) (Deck 2)		Level indicator right side
	SHIFT button (Deck 1)		"HOT CUE" LED (Deck 1)
	SHIFT button (Deck 2)		"HOT CUE" LED (Deck 2)
Rotary selector		Turn	All LED (*7)
Push switches (with LED)		Press	Own LED

[Note]

In case of the left parts, the left parts LED are lit.
In case of the right parts, the right parts LED are lit.
In case of the center parts, the right&left parts LED are lit.
All buttons other than the Rotary selector, LED will light only while it is pressed.

A

(*1) Jog dial (Rotate operation), Level indicator switch

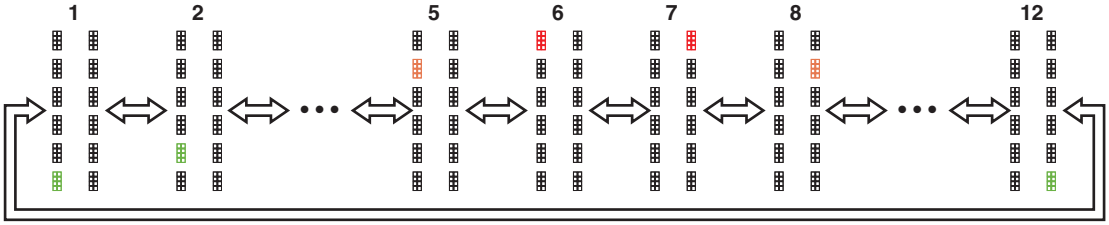


Jog dial

Level indicator switch

The starting position depends on the last position.

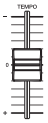
B



(*2) Volume knob, TEMPO slider

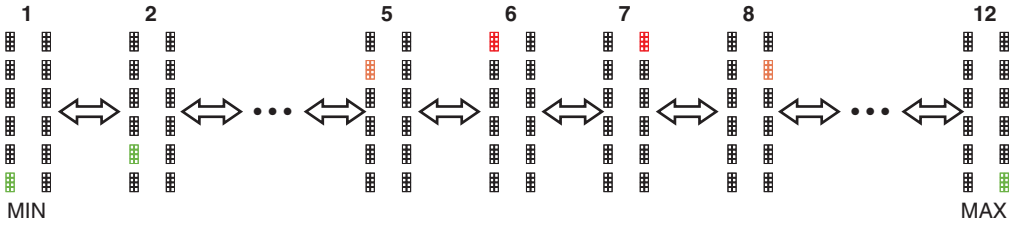
C

Volume type



In these type, the position is indicated in 12 steps from minimum to maximum.

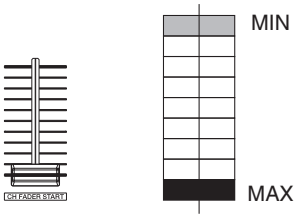
D



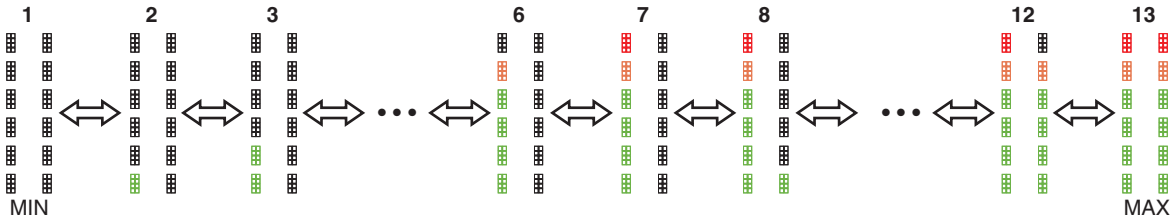
(*3) Channel fader

In channel fader, the position is indicated in 13 steps from minimum to maximum.

E



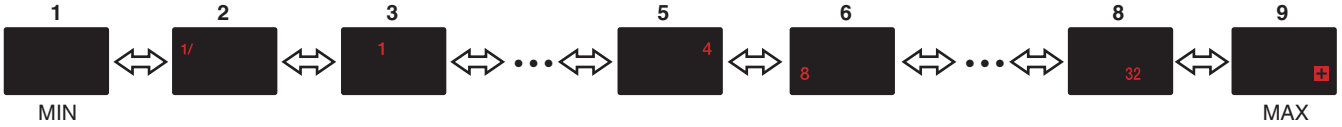
F



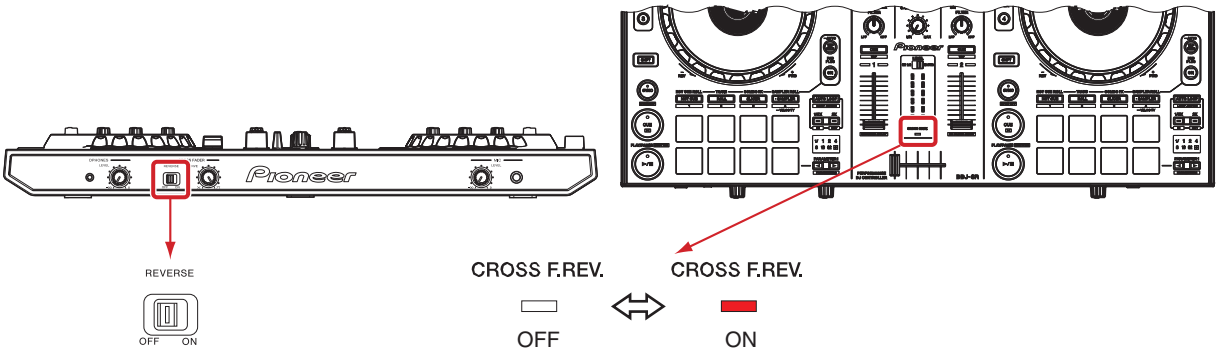
(*4) Cross fader

MIN MAX

In Crossfader, the position is indicated in 9 steps from minimum to maximum.



(*5) CROSS FADER REVERSE switch



(*6) Press the Rotary selector

Mode: LED BRIGHTNESS Mode

Mode	All LED
A	FULL BRIGHTNESS: 100 %
B	MID BRIGHTNESS: 20 %
C	LOW BRIGHTNESS: 10 %
D	OFF

When Rotary selector is pressed,"LED BRIGHTNESS Mode" is changed cyclically as follows.
••• → A → B → C → D → A → •••
When Rotary selector is pressed, "LIGHTING COLOR Mode" does not change.

(*7) Rotate the Rotary selector

Mode: LIGHTING COLOR Mode
(Each mode is indicated with the combination of lighting colors of the LOAD button and the HOT CUE, ROLL, SLICER, and SAMPLER buttons.)

Mode	LIGHTING COLOR of LED		Other LEDs
	LOAD	HOT CUE, ROLL, SLICER, SAMPLER	
1	RED & AMBER	BLUE & RED	State of (*6) retained
2	AMBER	BLUE	
3	AMBER	RED	
4	RED	BLUE	
5	RED	RED	

When Rotary selector is rotated clockwise,"LIGHTING COLOR Mode" is changed cyclically as follows.
••• → 1 → 2 → 3 → 4 → 5 → 1 →•••
When Rotary selector is rotated counterclockwise,"LIGHTING COLOR Mode" is changed cyclically as follows.
••• → 5 → 4 → 3 → 2 → 1 → 5 →•••
When Rotary selectoris rotated, "LED BRIGHTNESS Mode" does not change.

*As two LEDs of different colors each are embedded in the LOAD button and the HOT CUE, ROLL, SLICER, and SAMPLER buttons, LIGHTING COLOR mode can be used for failure diagnosis of each LED.

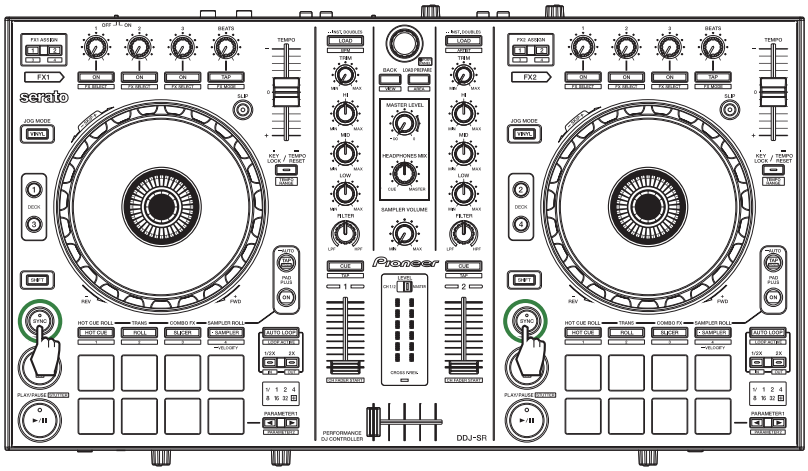
3. Factory Reset

The following data is reset to the factory default settings by "Factory reset" operation.

- Setting data in Utility mode
- Last memory of users

[Method to reset]

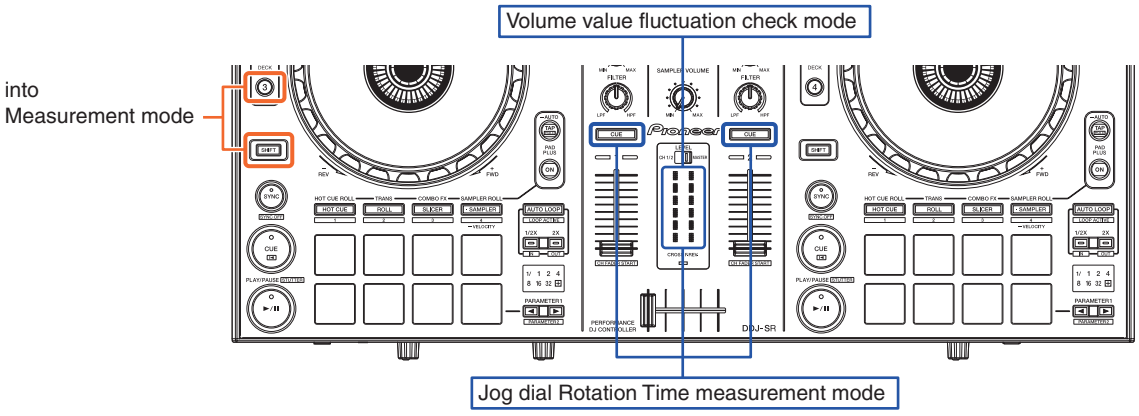
Press and hold the left DECK "SYNC" button and the right DECK "SYNC" button.
Then factory reset starts and "SYNC"LEDs are lit.
After completing reset, "SYNC" LEDs are turned off.



[3] Measurement mode

This is the mode to measure jog dial rotation time and the fluctuation of knobs/faders.

(1) Jog dial Rotation Time measurement mode
(2) Volume value fluctuation check mode



[Method to enter]

Press and hold the "SHIFT"+"DECK3" buttons then Power-ON.
During this mode, "DECK 3" and "DECK 4" LEDs are lit.

[Method to exit]

Power-OFF

(1) Jog dial Rotation Time measurement mode

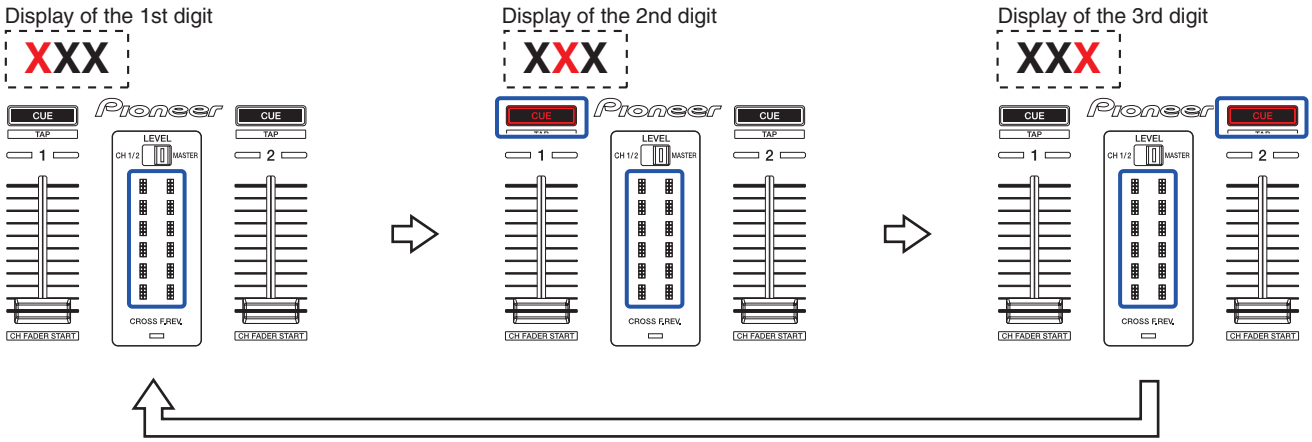
This is the mode to measure the JOG rotation time which is specified at "Jog dial Performance specification".
The specified range is 100 ± 40 msec.

[Method to measure]

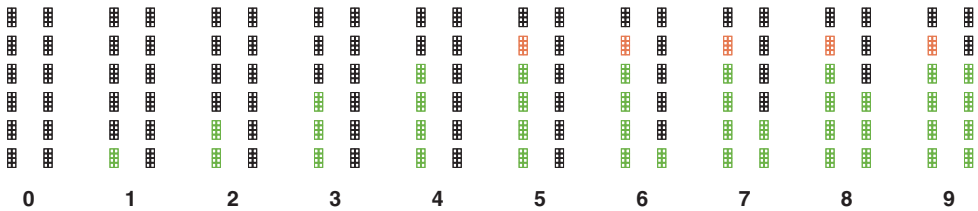
① You spin Jog dial more than 33*7 = 231 rpm.
*1 In case of less than 231 rpm, it is failure. Then "SLIP" LED (Deck1) is lit.
*2 You must measure by either clockwize or counterclockwize.

② The controller measures "T1".
*T1: The time that Jog dial rotation speed slow down from 100 rpm to 50 rpm.

③ The controller display result with three Channel level indicators. Refer to below.
The format of the result is "XXX" msec. (X: 0-999 msec .decimal)
It is displayed by the Headphone CUE/TAP buttons (Deck1 / Deck 2) and Level indicator.



[Numerics expressed with the number of lit LEDs]



If the measurement result is outside the specified range, check the amount of grease for the Jog dial and the chassis.

(2) Volume value fluctuation check mode

[Overview]

Will be tested fluctuation of voltage (A/D conversion value) which is made each Fader and Rotary volume by Level indicator.

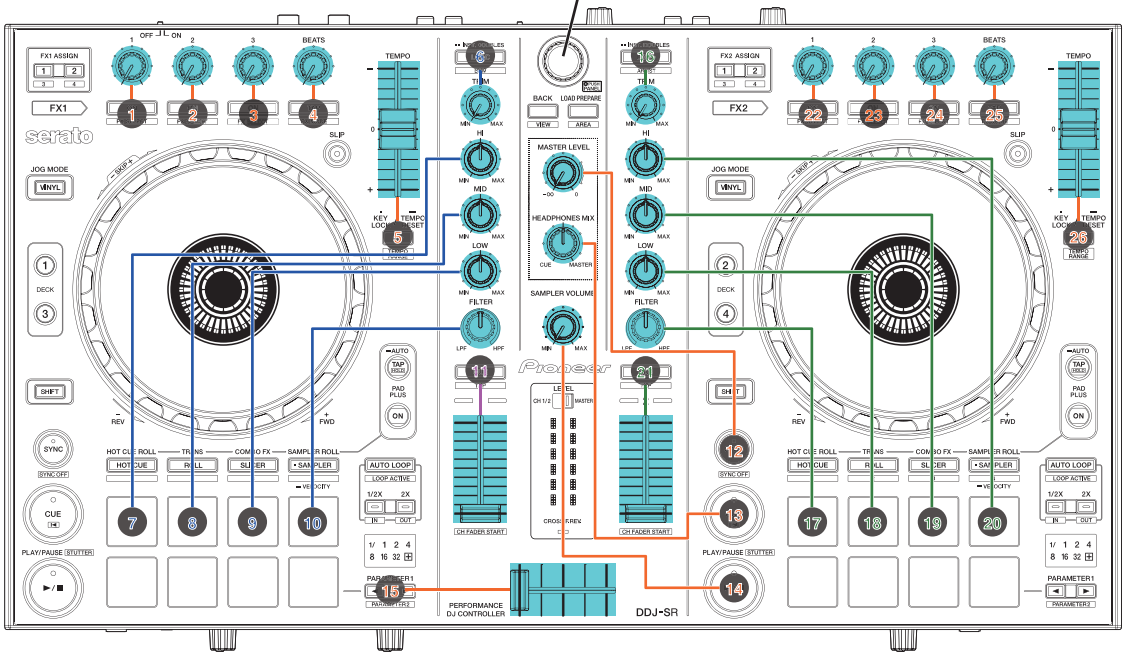
[Use of this mode during repair]

- For failure judgment of the rotary VRs
  As a guide, amplitude values higher than +4 or lower than -4 may be judged as failure.
  The VRs can be set to any position during measurement. Possible symptoms are shown below.
  • The volume changes arbitrarily.
  • Interrupted sound leakage occurs even if the volume is decreased to the minimum at the Master or Booth Monitor.
  • The MIDI signal is output even if the corresponding VR is not operated.
  • For operation check of a rotary VR after replacement

[Knobs under test operation]

Knobs under test operation are filled blue as below.

Test subjects to move by turning right / left-turn Rotary selector.
A/D conversion value observation start/reset by push the Rotary selector.



[Test detail]

① Choose the test subject by turn left and right Rotary selector.
The LED is lit with the following turns every 1 click.
Turn right: 1 → 2 → 3 → 4 → . . . . . → 25 → 26 → 1 → . . .
Turn left: 26 → 25 → 24 → . . . . . → 2 → 1 → 26 → . . .
Note: Regarding No.15, both LED are lit.

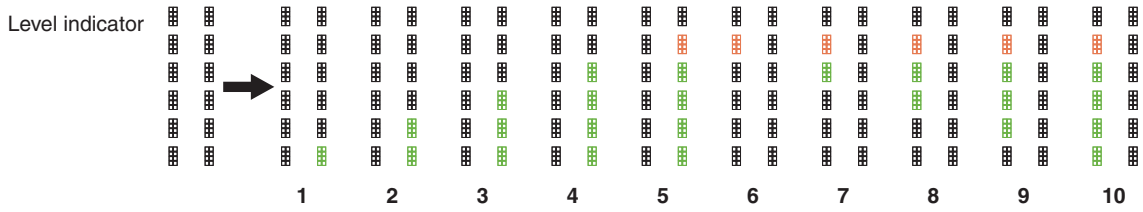
② You can see what knob/fader is selected by Lighting LED on each button as shown in the above figure.
For example ,LED to test Channel fader is "Headphone CUE/TAP" button's LED.

③ When targeted knob is decided, push the Rotary selector and start observation of A/D conversion value.
Get the A / D conversion value immediately after the start. It will be reference value.
*A/D conversion value to be monitored is Raw data.

④ Start monitoring and later to monitor the A/D conversion value, do the following actions depending on its value with Master level indicator.

Result	Fig No.
+1 from the reference value A/D conversion value	1
+2 from the reference value A/D conversion value	2
+3 from the reference value A/D conversion value	3
+4 from the reference value A/D conversion value	4
Over +5 From the reference value A/D conversion value	5
-1 from the reference value A/D conversion value	6
-2 from the reference value A/D conversion value	7
-3 from the reference value A/D conversion value	8
-4 from the reference value A/D conversion value	9
Less than -5 from the reference value A/D conversion value	10

* Display at the same time both fall / rise direction from the reference value of the conversion value A/D.

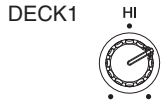


* Keep the lighting position at the time of maximum fluctuation of each of the positive & negative direction

⑤ By pushing the Rotary selector while monitoring the conversion value A/D, it is possible to reset the state of the fluctuations of the past.

Ex.)

1. Turn EQ HI knob (for DECK 1) to the position you want to measure.



2. Turn the Rotary selector until the 7th LED (Performance pad) lights.

3. Start A/D conversion value monitoring to push Rotary selector. If A/D value of push the Rotary selector is 760, to monitor the amount of change in the value of A/D as a reference value 760.

4. After a while, Level indicator is lit as follows: become the value 763 of the A/D.

5. More time has elapsed, to maintain the above display 762 even though the value of the A/D.

6. More time has elapsed, Level indicator is lit as follows: become the value 764 of the A/D.

7. More time has elapsed, Level indicator is lit as follows: become the value 758 of the A/D.

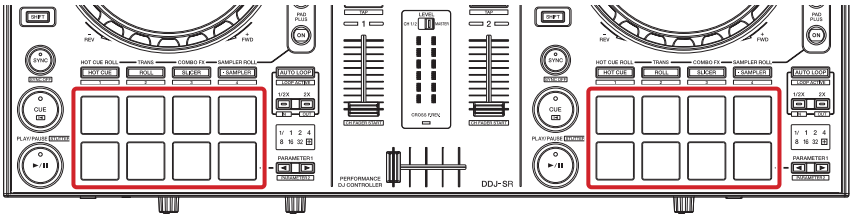
8. More time has elapsed, To maintain the above display 759 even though the value of the A/D.

9. More time has elapsed, Level indicator is lit as follows: become the value 757 of the A/D.

10. Off all the LED on Level indicator When you push the Rotary selector, and this value will be new reference value.

[4] Operation Test of the Velocity Sensitivity and Aftertouch for the Performance pads

Testing the velocity sensitivity and aftertouch of the operating elements shown below.



[Method to enter]

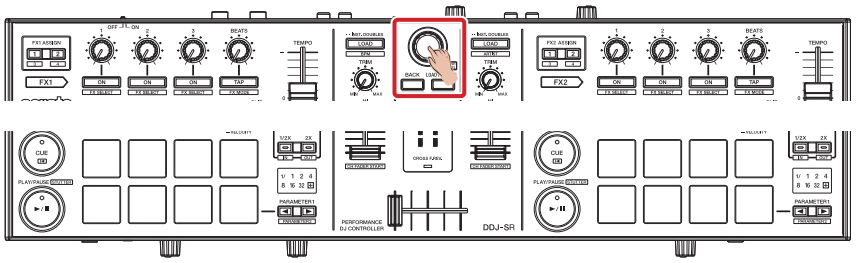
To enter the mode for testing the velocity sensitivity and aftertouch of the operating elements, after the unit starts in Service mode, press the Rotary selector over 1 second. Performance pads 1 on both decks are lit and other LEDs are unlit.

[Method to exit]

Power-OFF.
Or, if the Rotary selector is pressed over 1 second again, all of Performance pad on both decks are unlit.
And the unit returns to normal Service mode.

[Operation method]

Press Performance pad or hold Performance pad pressed.

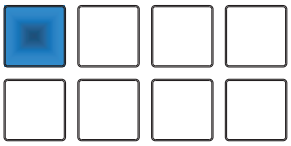


[Description of the modes]

- Values obtained in response to the speed of an initial keypress (velocity sensitivity) or the amount of force applied after initial impact (aftertouch) will be converted to 8-step data (3-bit resolution).
- If the Performance pad on the left deck is held pressed, the number of the lit rubber pads on the right deck will increase/decrease in response to force applied to the Performance pad on the left.
- If the Performance pad on the right deck is held pressed, the number of the lit rubber pads on the left deck will increase/decrease in response to force applied to the Performance pad on the right.
  (With the minimum amount of force applied, one LED is lit, and with the maximum amount of force applied, all 8 LEDs are lit.)

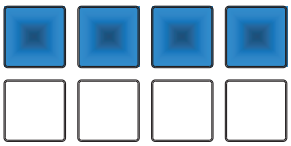
[Display examples]

- When the amount of force applied is minimum
  (the converted value is "0"), only Performance pad LED 1 on the left (right) deck is lit.



- When the amount of force applied is maximum
  (the converted value is "7"), all Performance pad LEDs on the left (right) deck are lit.

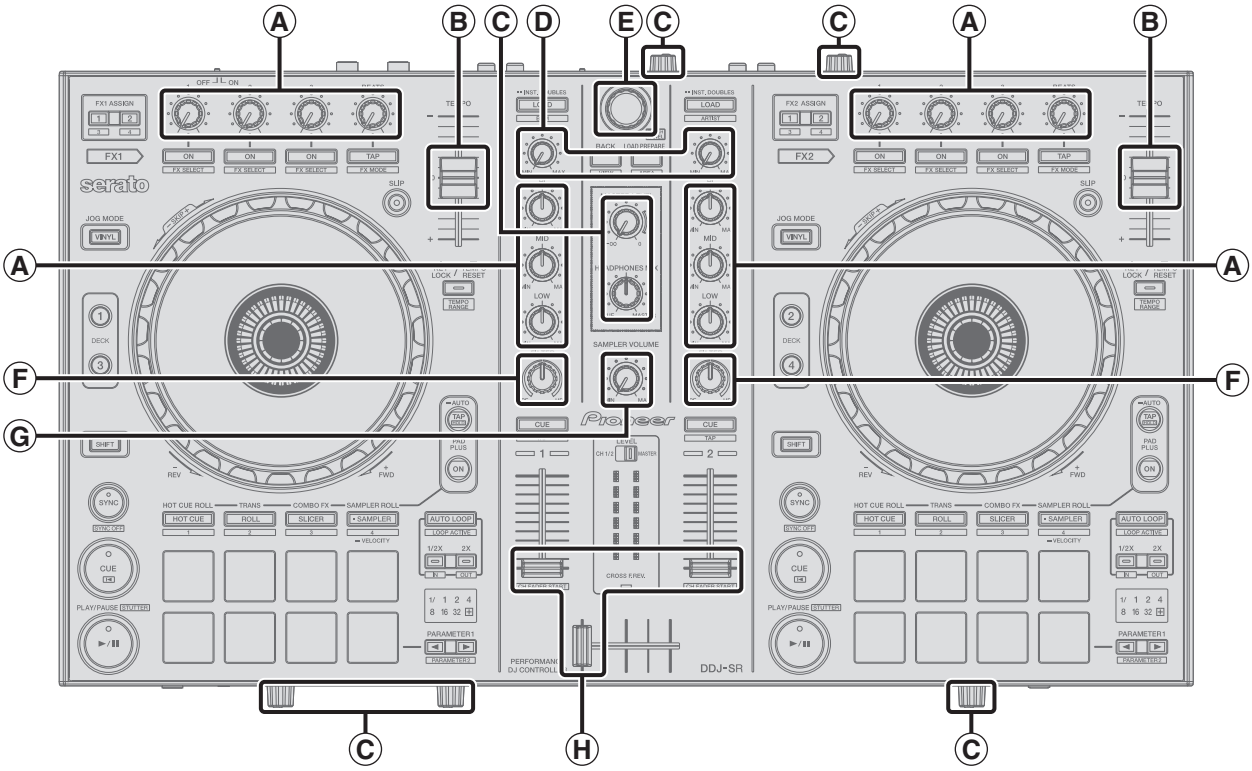
- When the amount of force applied is medium
  (the converted value is "3"), Performance pad LEDs 1–4 on the left (right) deck are lit and the other LEDs are unlit.



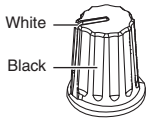
7. DISASSEMBLY

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

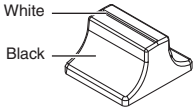
Knobs and Volumes Location



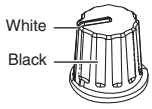
(A) 100-S1-3006 ×14



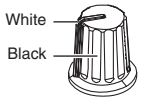
(B) 100-S1-3005 ×2



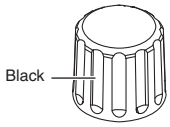
(C) 100-S1-3008 ×7



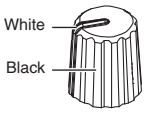
(D) 100-DDJLE-2944 ×2



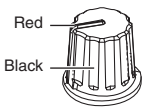
(E) 100-S1-3010 ×1



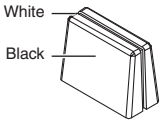
(F) 100-S1-3009 ×2



(G) 100-SR-3008 ×1



(H) 100-22-2824 ×3



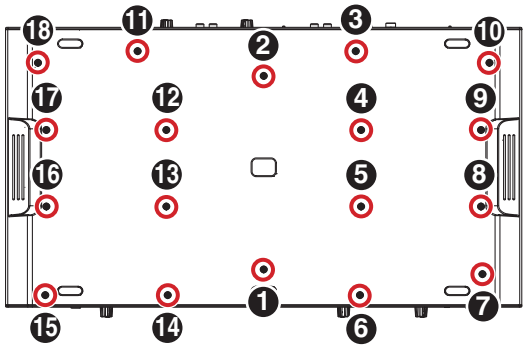
Disassembly

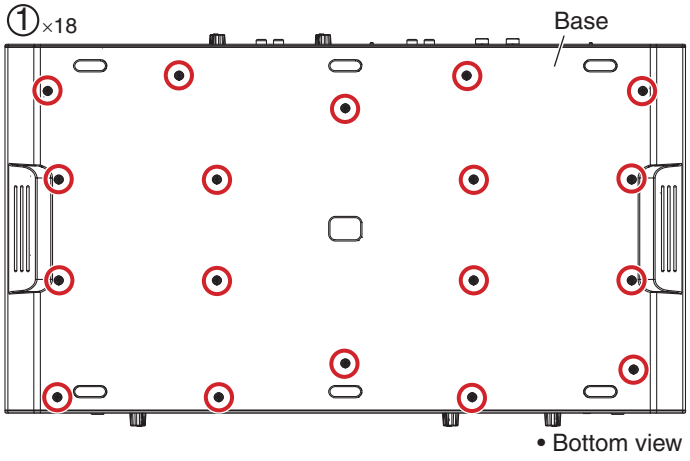
[1] I/O, MIC, HEADPHONE PCB Assemblies

• Base

(1) Remove the Base by removing the 18 screws.
(602-PTP3012-571)

Screw tightening order

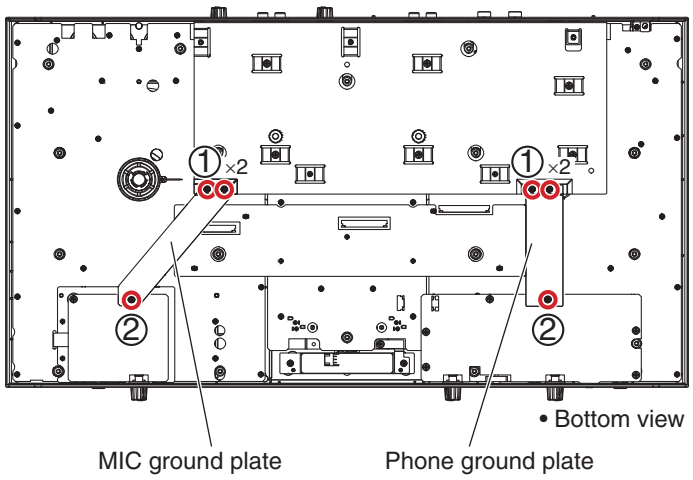




• I/O PCB Assy

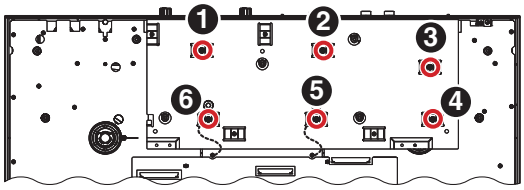
(1) Remove the four screws.
(602-B300-041)

(2) Remove the Phone ground plate and MIC ground plate by removing the two screws.
(602-DJ5500-452)

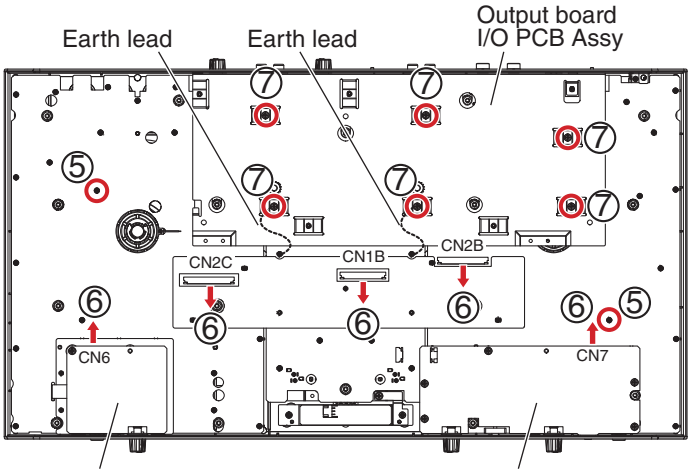


(3) Remove the two screws.
(602-ST306-728B)
(4) Remove the one screw.
(602-QMX2BPM-322)
(5) Release the two jumper wires from the clamper.
(6) Disconnect the three flexible cables and two connectors.
(CN1B, 2B, 2C, 6, 7)
(7) Remove the I/O PCB Assy with Output board by removing the six screws.
(602-DJ5500-452)

Screw tightening order



• Rear view

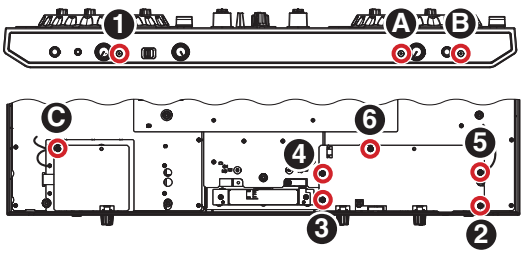


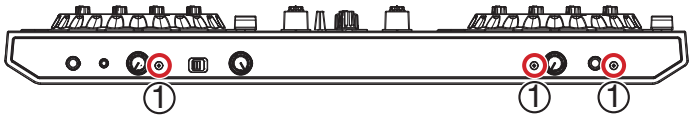
• Bottom view

• MIC and HEADPHONE PCB Assemblies

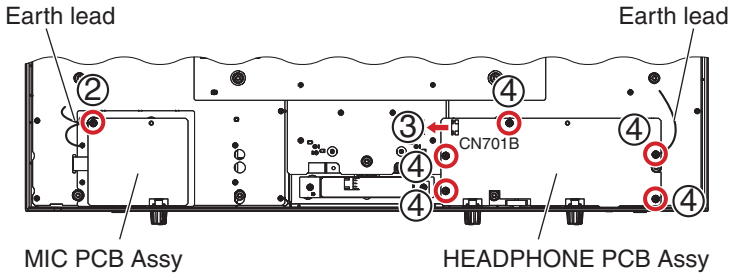
(1) Remove the three screws.
(602-ST306-728B)
(2) Remove the MIC PCB Assy by removing the one screw.
(602-DJ5500-452)
(3) Disconnect the one flexible cable.
(CN701B)
(4) Remove the HEADPHONE PCB Assy by removing the five screws.
(602-DJ5500-452)

Screw tightening order





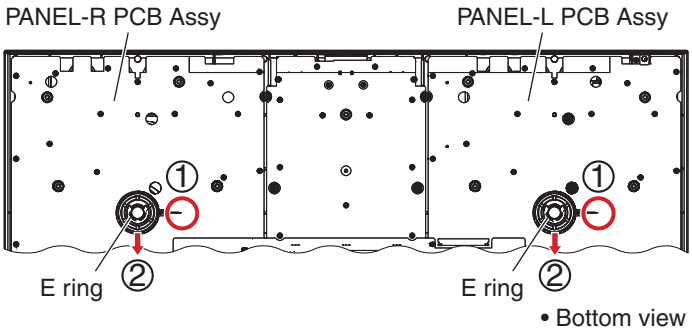
• Front view



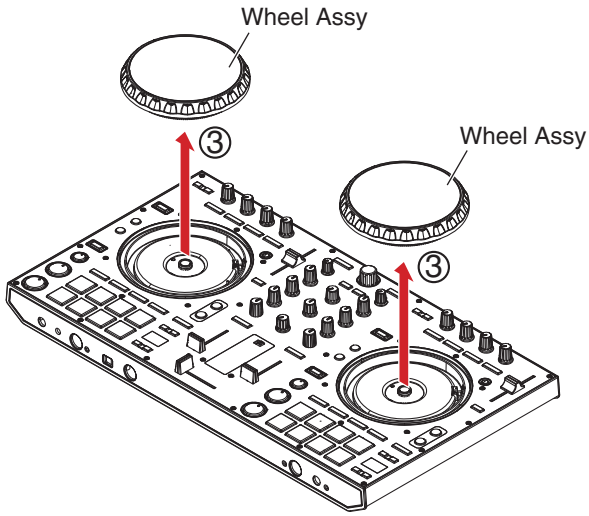
• Bottom view

[2] Jog dial section

(1) Remove the two solders.
(2) Remove the two E rings.
(606-C304-209)



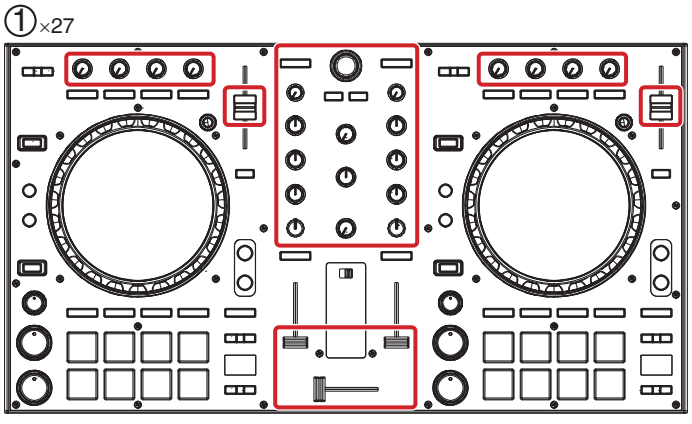
(3) Remove the two Wheel Assemblies.



[3] Each PCB Assemblies

Note:
When you remove each PCB Assemblies, it is not necessary to remove a jog dial section.

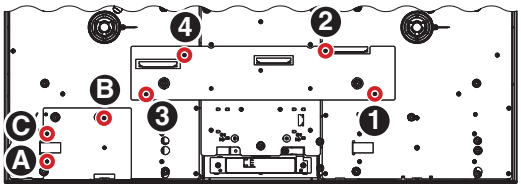
(1) Remove the all knobs.

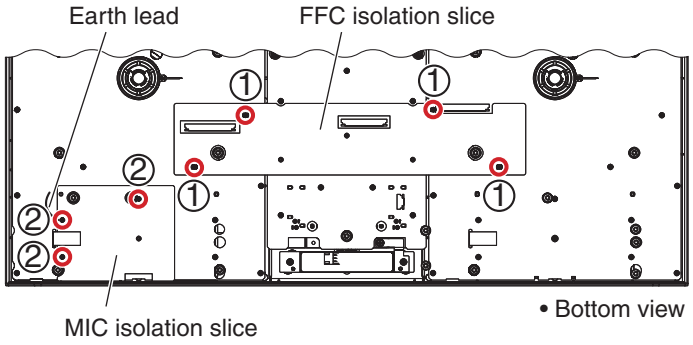


• Shield

(1) Remove the FFC isolation slice by removing the four screws.
(602-SL24F-099)
(2) Remove the MIC isolation slice by removing the three screws.
(602-SL24F-099)

Screw tightening order

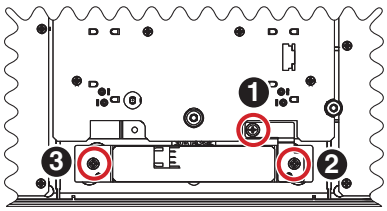


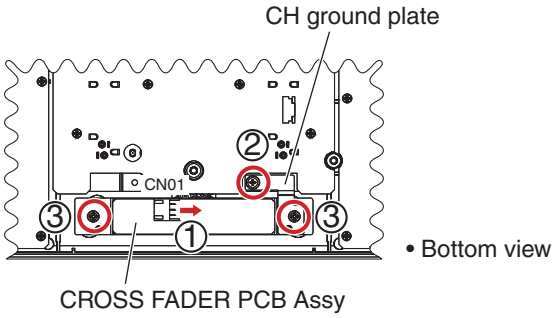


• CROSS FADER PCB Assy

(1) Disconnect the one connector.
(CN01)
(2) Remove the one screw.
(602-QMX2BPM-322N)
(3) Remove the CH ground plate and CROSS FADER PCB Assy by removing the two screws.
(602-SW3008-737B)

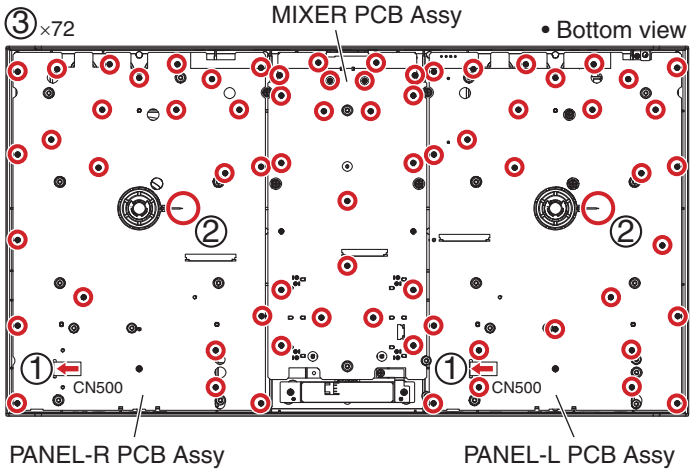
Screw tightening order





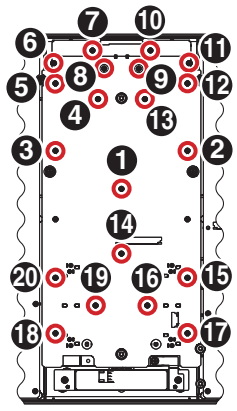
• MIXER, PANEL-L and R PCB Assemblies

(1) Disconnect the two flexible cables.
(CN500)
(2) Remove the two solders.
(3) Remove the MIXER PCB Assy by removing the 20 screws.
Remove the PANEL-L and R PCB Assemblies by removing the 52 screws.
(602-SL24F-099)

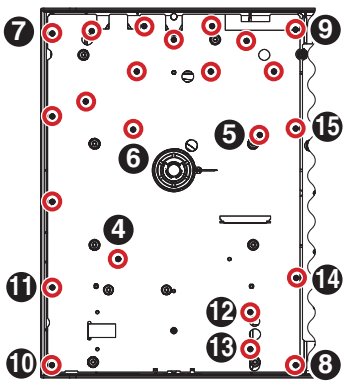


Screw tightening order

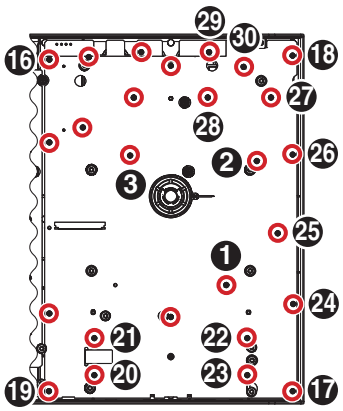
MIXER PCB Assy



PANEL-R PCB Assy

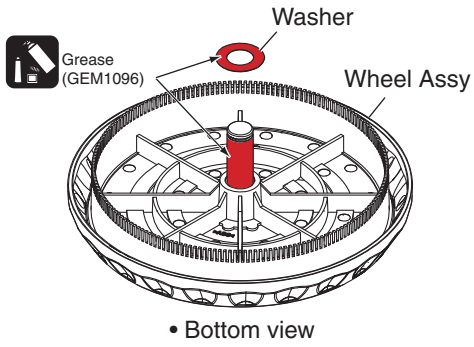


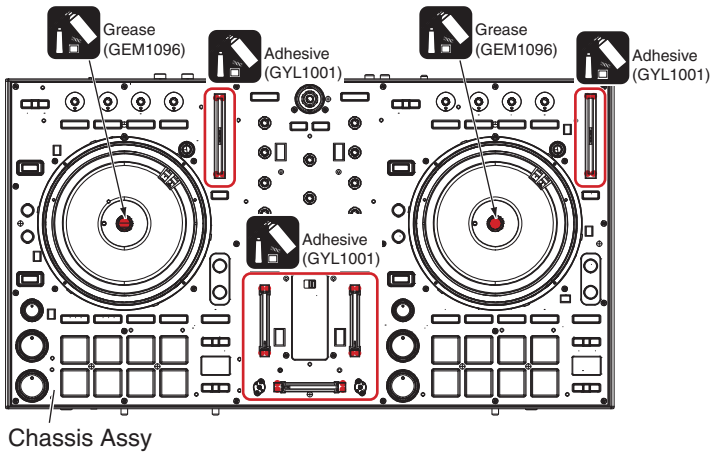
PANEL-L PCB Assy

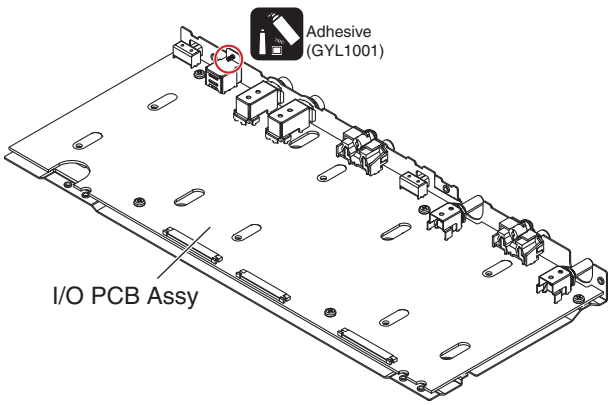


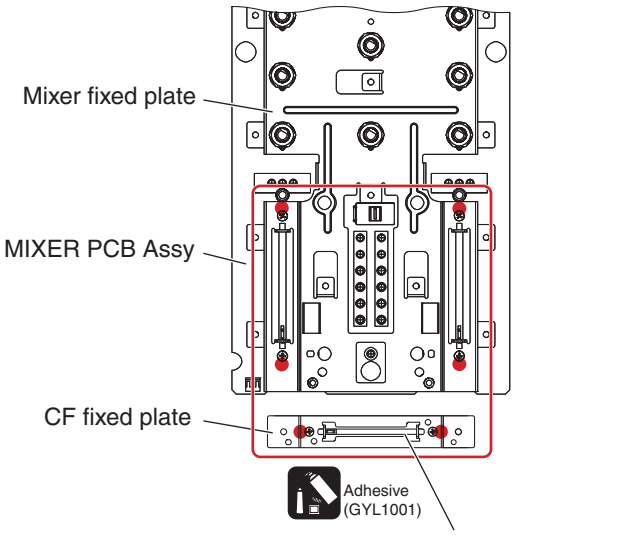
The other screws are random order.

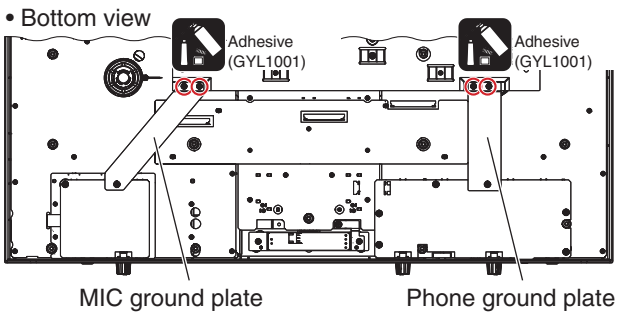
The Application Position of Adhesive and Grease











8. EACH SETTING AND ADJUSTMENT

8.1 NECESSARY ITEMS TO BE NOTED

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

• IC storing firmware IC20 (I/O PCB Assy)	⇒ • Confirmation of the version of the firmware • Updating to the latest version of the firmware
• IC storing utility settings IC19 (I/O PCB Assy)	⇒ • Factory reset • Be changed user setting to condition before the repair (when be possible)
• PCB Assy storing firmware and utility settings I/O PCB Assy	⇒ • Confirmation of the version of the firmware • Updating to the latest version of the firmware • Factory reset • Be changed user setting to condition before the repair (when be possible)
• Wheel Assy	⇒ • Confirmation of the specified value by the mode which measures rotary decline time of the jog dial

8.2 UPDATING OF THE FIRMWARE

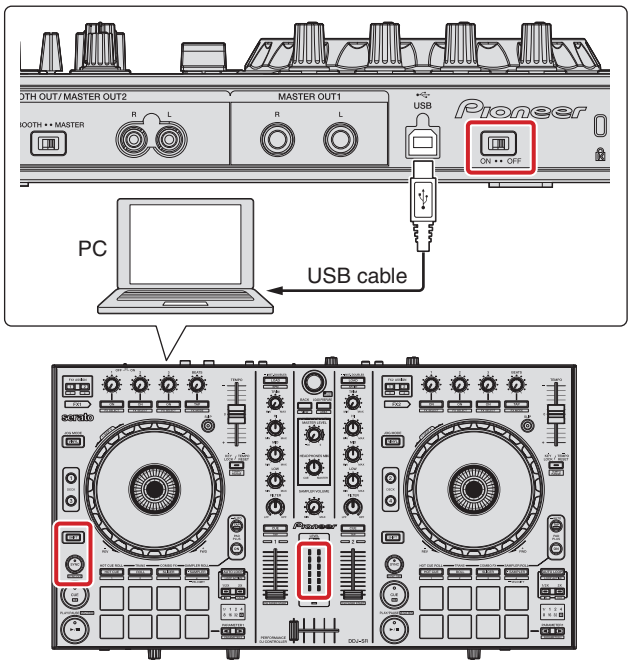
Preparations

- Unzip the downloaded update fife for updating.
  Place the update file on the desktop.
- ASIO driver exclusively for DDJ-SX is required to be installed for Windows PC users.
- If Java has not been installed, please download the Java Runtime Environment (JRE) at: http://java.com and install it on your computer.

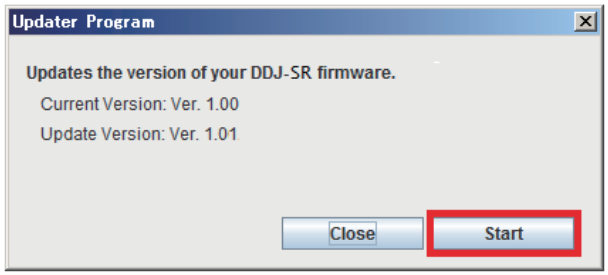
Updating Procedures

Note: Turn the power off and disconnect all the cables from the unit.
And close all applications on your computer before running this updating procedure.

① Connect your computer to DDJ-SR via the USB cable included with the product.
② Turn on the power of DDJ-SX while pressing the [SHIFT] button and the [SYNC] button on the LEFT deck ensure the Level meter LEDs flash before releasing your finger from the these buttons.



③ When the update file for DDJ-SR (DDJ-SR_Vxxx.jar) is activated, the following dialogue is displayed. Click the [Start] button.
Approximately a few minutes are required for updating.



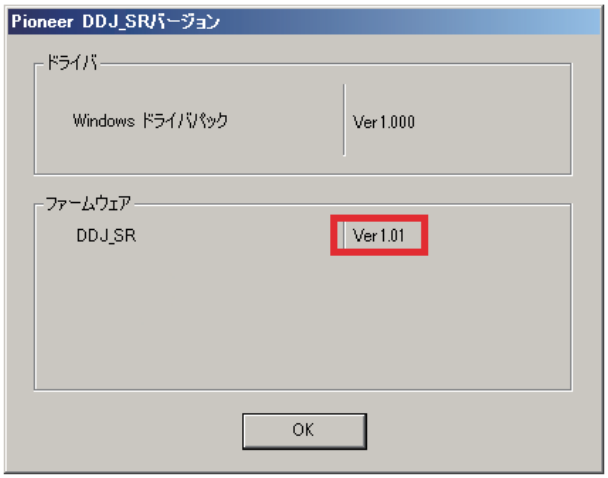
④ When the firmware update process is complete, click the [OK] button.

Note: Please note that if you fail to update, turn on the power of DDJ-SR again and start from Step ② of the above Updating Procedures.

How to check the Firmware Version

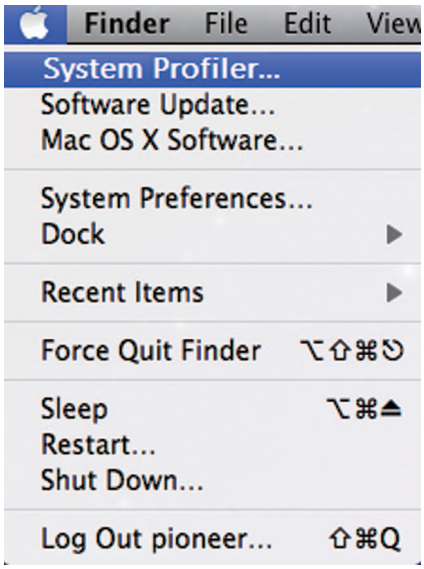
For Windows

From the [Start menu], Run [All Programs] → [Pioneer] → [DDJ-SR] → [DDJ_SR Version Display Utility].
*Click [DDJ_SR Version Display Utility] tile on the Start Screen for Windows 8.

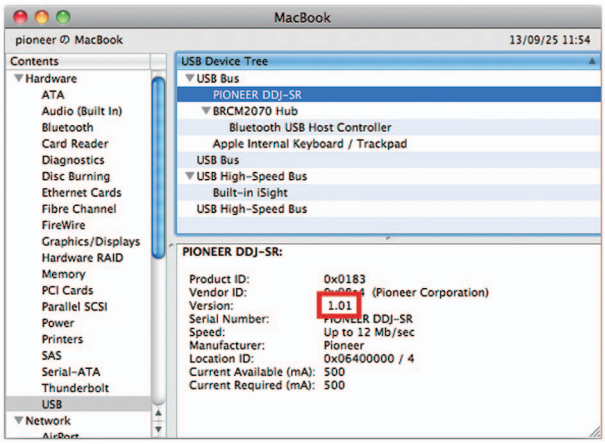


For Mac

Open the Apple menu while pressing the option key, then select “System Profiler” or “System Information.”



Select the [USB] from the [Hardware] to display the name of the controller. Select the controller to display the firmware version.



8.3 ITEMS FOR WHICH USER SETTINGS ARE 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 take note of those settings before starting repair.
Use the Check Sheet shown next page, 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 is Available			Setting Value (The factory default settings are indicated in bold.) / Indication method	Part Name	Content to be Stored
Utilities mode 1	Settings for DJ software other than Serato DJ		**Setting to use Serato DJ** • Setting to use DJ software other than Serato DJ Left Deck [KEY LOCK] button unlit • [KEY LOCK] button lit	IC19 (I/O PCB Assy)	UTILITY setting
	Channel fader start setting		With SYNC, **without SYNC**, function disabled Left Deck Effect parameter 1 button lit • Effect parameter 2 button lit • Effect parameter 3 button lit		
	Master output' s attenuation level setting		**0 dB** (no attenuation) • –3 dB • –6 dB Left Deck [HOT CUE] mode button lit • [ROLL] mode button lit • [SLICER] mode button lit		
	Slip mode flashing setting		**Settings enabled** • Settings disabled Left Deck [SLIP] button lit • [SLIP] button unlit		
	Demo mode setting		**Demo mode enabled** • Demo mode disabled Left Deck [TAP (FX MODE)] button lit • [TAP (FX MODE)] button unlit		
	Sampler velocity mode setting	Velocity curve setting	**Curve 1** • Curve 2 • Curve 3 • Curve 4 [1/2X (IN)] button lit • [2X (OUT)] button lit • [PARAMETER <] button lit • [PARAMETER >] button lit		
		After touch setting	**Settings enabled** • Settings disabled [SAMPLER] mode button lit • [SAMPLER] mode button unlit		
	Jog dial MIDI message sending interval setting		**3 ms** • 4 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 12 ms • 13 ms Level indicator lighting LED number: 0 • 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10		
Utilities mode 2	Default value of the beat for the hot cue roll function setting		1/32 • 1/16 • 1/8 • **1/4** • 1/2 • 1 Left Deck Beat indicator indication: 1/32 • 1/16 • 1/8 • 1/4 • 1/2 • 1		
	FX level	Default value of the Combo FX level setting	Level 12 • Level 50 • Level 75 • Level 100 When the HOT CUE button on the left deck is pressed, a value is indicated with the Beat indicator on the left deck. Right Deck Level indicator lighting LED number: 1 • 2 • 3 • 4		
		Default value of the Combo FX filter operation mode setting	Off • Slow • Quick • LFO When a Performance pad is pressed after the HOT CUE button on the right deck is pressed, a value (1, 2, 3, or 4) will be indicated with the left-column LEDs of the LEVEL indicator. A default value can be set separately for each of the 6 Performance pads (1, 2, 3, 5, 6, or 7). Level indicator lighting LED number: 1 • 2 • 3 • 4		
	Default value of the beat for the sampler roll function setting		1/32 • 1/16 • 1/8 • 1/4 • 1/2 • 1 When a Performance pad is pressed after the ROLL button on the right deck is pressed, a value (1, 2, 3, or 4) will be indicated with the right-column LEDs of the LEVEL indicator. A default value can be set separately for each of the 6 Performance pads (1, 2, 3, 5, 6, or 7). Left Deck Beat indicator indication: 1/32 • 1/16 • 1/8 • 1/4 • 1/2 • 1 When the SAMPLER button on the left deck is pressed, a value is indicated with the Beat indicator on the left deck		
	Momentary mode setting		Settings enabled • **Settings disabled** Left Deck [PAD PLUS ON]button lit • [PAD PLUS ON] button unlit		
	Pad Plus mode flashing operation setting		**Settings enabled** • Settings disabled Left Deck [PAD PLUS TAP] button lit • [PAD PLUS TAP] button unlit		

Each of the above items can be set in Utility mode.
To enter Utilities mode 1, terminate the application, turn the unit OFF, then while holding the [SHIFT] and [PLAY/PAUSE] buttons on the left deck pressed, set the [ON/OFF] switch on the rear panel of the unit to ON.
To enter Utilities mode 2, terminate the application, turn the unit OFF, then while holding the [SHIFT] and [PLAY/PAUSE] buttons on the right deck pressed, set the [ON/OFF] switch on the rear panel of the unit to ON.
(For details, refer to the operating instructions of the unit.)

Sheet for confirmation of the user setting

Utilities mode 1							
Setting of DJ software to be used		Channel fader start setting			Master output' s attenuation level setting		
Serato DJ	Other than Serato DJ	With SYNC	Without SYNC	disabled	0 dB	-3 dB	-6 dB

Utilities mode 1			
Slip mode flashing setting		Demo mode setting	
enabled	disabled	enabled	disabled

Utilities mode 1																
Sampler velocity mode						Jog dial MIDI message sending interval setting										
Velocity curve selection				After touch setting												
Curve1	Curve2	Curve3	Curve4	enabled	disabled	3 ms	4 ms	5 ms	6 ms	7 ms	8 ms	9 ms	10 ms	11 ms	12 ms	13 ms

Utilities mode 2											
Default value of the beat forthe hot cue roll function setting						Default value of the beat forthe sampler roll function setting					
1/32	1/16	1/8	1/4	1/2	1	1/32	1/16	1/8	1/4	1/2	1

Utilities mode 2			
Momentary mode setting		Pad Plus mode flashing operation setting	
enabled	disabled	enabled	disabled

Utilities mode 2									
Combo FX									
Default value of the Combo FX level setting					Default value of the Combo FX filter operation mode setting				
	Level 12	Level 50	Level 75	Level 100		Off	Slow	Quick	LFO
Performance pad 1					Performance pad 1				
Performance pad 2					Performance pad 2				
Performance pad 3					Performance pad 3				
Performance pad 5					Performance pad 5				
Performance pad 6					Performance pad 6				
Performance pad 7					Performance pad 7				

A

B

C

D

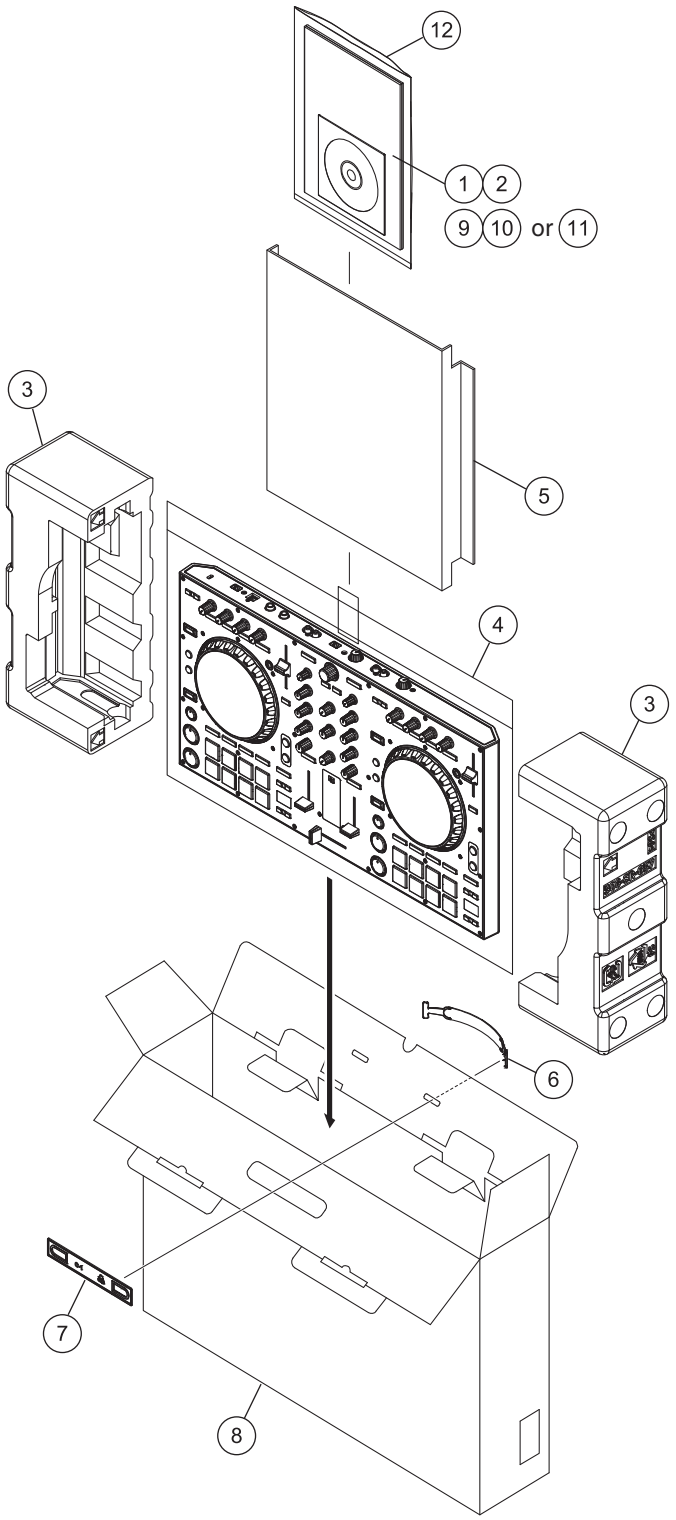
E

F

9. EXPLODED VIEWS AND PARTS LIST

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

9.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

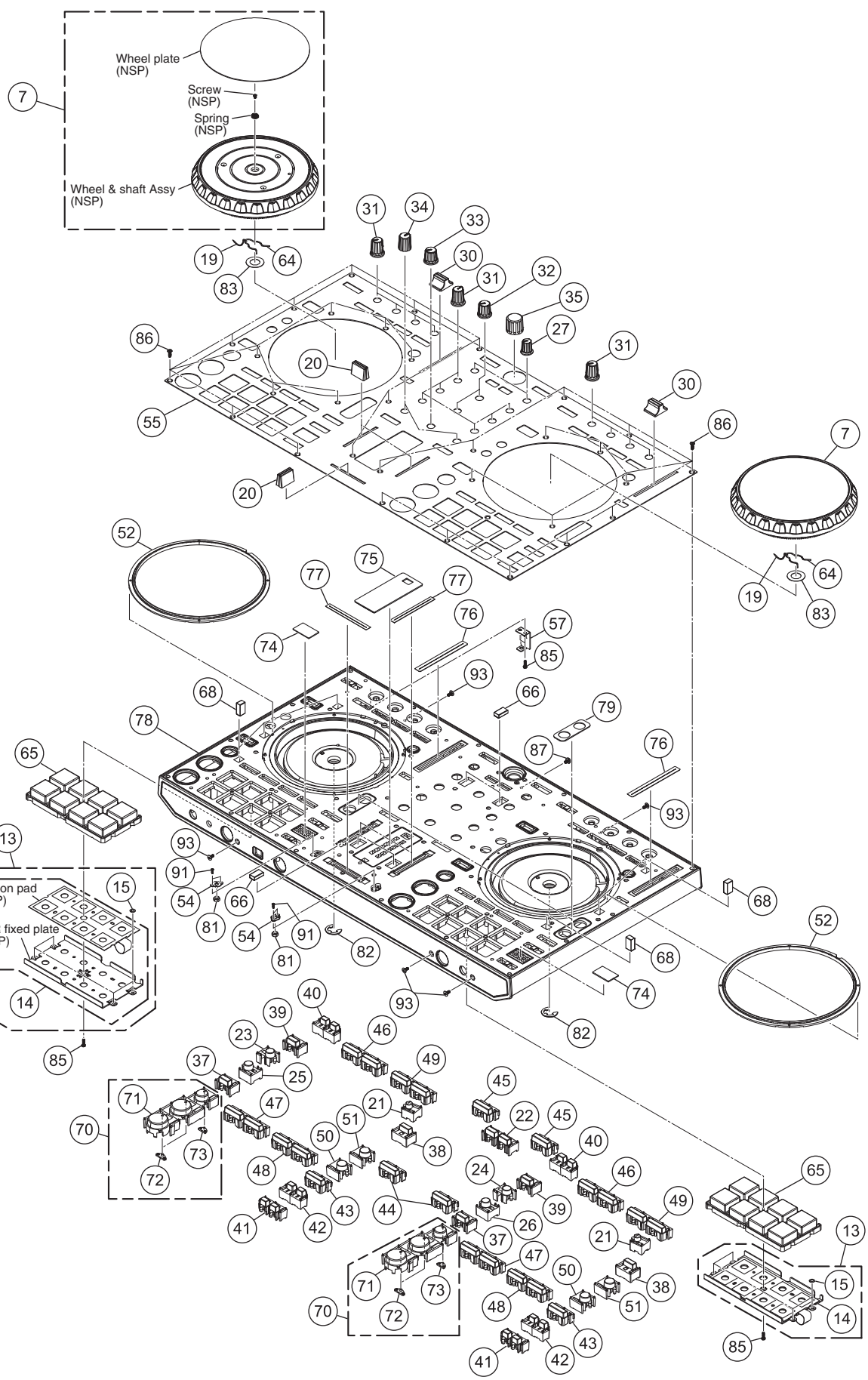
Mark	No.	Description	Part No.
	1	USB Cable (L = 1500 mm)	408-SUB-132
	2	CD-ROM (Installation Disc)	••••• (To Be Determined)
	3	Polyfoam	506-SR-657
	4	Soft Bag	509-SR-328
	5	Paster Board	507-SR-3440
	6	Handle	100-SX-3017
	7	Handle Base	100-SX-3018
	8	Gift Box	See Contrast table (2)
	9	Read Before Use (Important)/ Quick Start Guide	See Contrast table (2)
	10	Read Before Use (Important)/ Quick Start Guide	See Contrast table (2)
	11	Read Before Use (Important)/ Quick Start Guide	See Contrast table (2)
	12	PE Bag	505-DJM250-014

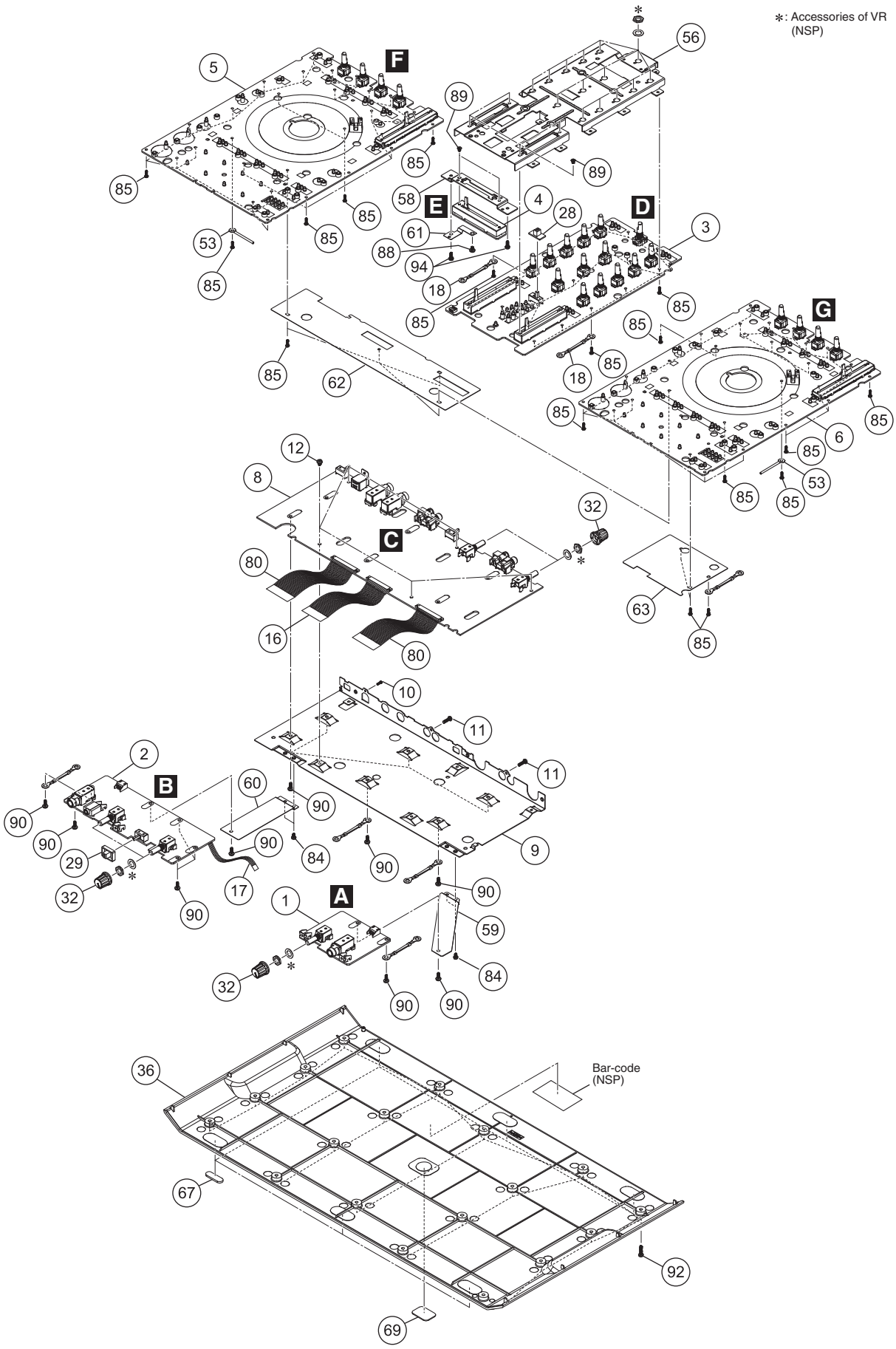
(2) CONTRAST TABLE

DDJ-SR/CKSUVYXE5 and XECN5 are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-SR /CKSUVYXE5	DDJ-SR /XECN5
	8	Gift Box	507-SRA-3449A	507-SRB-3449
	9	Read Before Use (Important)/Quick Start Guide (En, Fr, De, It, Nl)	502-DDJSRA-3325A	Not used
	10	Read Before Use (Important)/Quick Start Guide (Es, Pt, Ru, Ko, Ja)	502-DDJSRA-3326A	Not used
	11	Read Before Use (Important)/Quick Start Guide (Zhcn)	Not used	502-DDJSRB-3327

9.2 EXTERIOR SECTION




∗: Accessories of VR (NSP)
Bar-code (NSP)

(1) EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	MIC PCB Assy	704-SR-A601
	2	HEADPHONE PCB Assy	704-SR-A600
	3	MIXER PCB Assy	704-SR-A597
	4	CROSS FADER PCB Assy	704-DJM250-A032
	5	PANEL-L PCB Assy	704-SR-A599
	6	PANEL-R PCB Assy	704-SR-A598
	7	Wheel Assy	701-SR-5350
	8	I/O PCB Assy	704-SR-A596
	9	Output Board	300-SR-2089
	10	Screw	602-HP1010K-181
	11	Screw	602-MK7-131
	12	Screw	602-QMX2BPM-322N
	13	1..Pad & FSR Plate Assy kit	GXX1374
	14	2..Pad & FSR Plate Assy	704-SR-A629
	15	2..Washer	606-SR-270
	16	30P 1.0 FFC Cable	406-SR-1259
	17	5P 1.0 FFC Cable	406-SR-1260
	18	1P Ground Wire (L=70 mm)	406-SR-1267
	19	1P Lead Wire	406-S1-1231
	20	Push Button	100-22-2824
	21	Little Round Button	100-S1-2991
	22	2 Key Button	100-S1-2992S
	23	Deck 1 Button	100-S1-2990
	24	Deck 2 Button	100-S1A-2990
	25	Deck 3 Button	100-S1B-2990
	26	Deck 4 Button	100-S1C-2990
	27	Jog Tuning Knob	100-DDJLE-2944
	28	CF Button	100-S1-3003
	29	Button	100-S1-3004
	30	Speed Push Button	100-S1-3005
	31	FX Rotate Knob	100-S1-3006
	32	Gain Rotate Knob	100-S1-3008
	33	Gain Rotate Knob	100-SR-3008
	34	Filter Rotate Knob	100-S1-3009
	35	Browser Rotate Knob	100-S1-3010
	36	Base	See Contrast table (2)
	37	Shift Button	100-SHIFT-3053
	38	Rectangular Button	100-SR-3053
	39	Vinyl Button	100-VINYL-3053
	40	1/2 Button	100-12-3054
	41	Rectangular Button	100-DJSR-3054
	42	-/- Button	100-SR-3054
	43	Auto Button	100-AUTO-3055
	44	Cue Button	100-CUE-3055
	45	Load Button	100-LOAD-3055

Mark	No.	Description	Part No.
	46	On/On Button	100-ON-3055
	47	Hot Cue/Roll Button	100-ROLL-3055
	48	Slice/Sampler Button	100-SLICER-3055
	49	On/Tap Button	100-TAP-3055
	50	On Button	100-ON-3056
	51	Tap Hold Button	100-TAP-3056
	52	JW Ring	100-SR-3060
	53	Locking Cable Clip	300-HM510B-224
	54	Fixed Cover	300-33-1918
	55	Front Panel	300-SR-2086
	56	Mixer Fixed Plate	300-SR-2088
	57	K Lock Plate	300-SR-2091
	58	CF Fixed Plate	300-SR-2102
	59	MIC Ground Plate	300-SR-2104
	60	Phone Ground Plate	300-SR-2105
	61	CF Ground Plate	300-SR-2106
	62	FFC Isolation Slice	501-SR-2589
	63	MIC Isolation Slice	501-SR-2590
	64	Spring	603-C304-335
	65	Velocity Soft Knob	604-SR-618
	66	Sponge	612-4MIX-416
	67	Foot Mat	612-S1-445
	68	Sponge (8*6*18 mm)	612-S1-451
	69	Square Pad	612-SR-478
	70	1..Play Button Assy	701-DDJSR-5397
NSP	71	2..Play Sync Button	100-SR-3057
NSP	72	2..Lens	100-SR-3058
NSP	73	2..Little Lens	100-SR-3063
	74	Numeral Lens	501-SR-2574
	75	LM Lens	501-SR-2575
	76	VR Cushion	612-HDJ7000-056A
	77	VR Cushion	612-IM-296
	78	Chassis Assy	701-DDJSR-5398
	79	Quant Lens	501-SR-2573
	80	34P 1.0 FFC Cable	406-SR-1258
	81	Nut	601-A100-004
	82	E Ring	606-C304-209
	83	Washer (20*11*0.25T)	606-C304-210
	84	Screw	602-B300-041
	85	Screw	602-SL24F-099
	86	Screw	602-HP1010K-182
	87	Screw	602-QMX2BPM-322
	88	Screw	602-QMX2BPM-322N
	89	Screw	602-SA12-414
	90	Screw	602-DJ5500-452
	91	Screw	602-A700-494
	92	Screw	602-PTP3012-571
	93	Screw	602-ST306-728B
	94	Screw	602-SW3008-737B

(2) CONTRAST TABLE

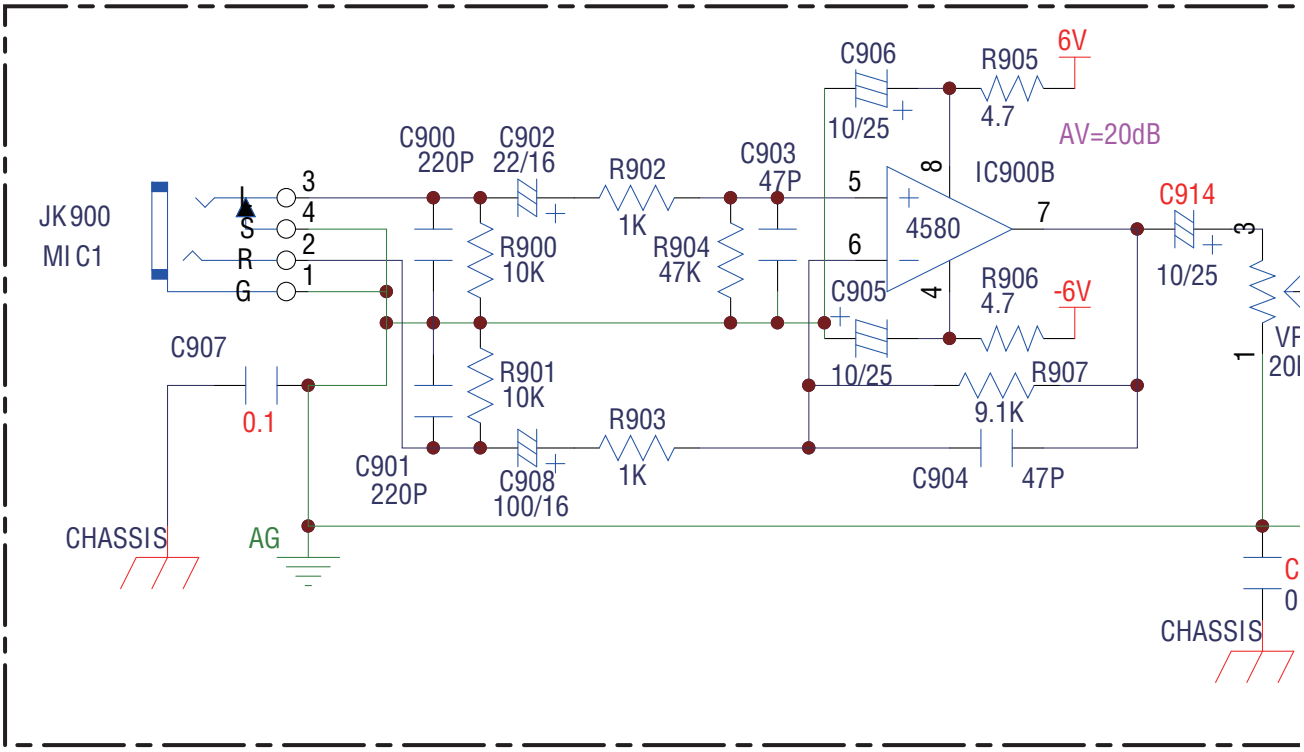
DDJ-SR/CKSUVYXE5 and XECN5 are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-SR /CKSUVYXE5	DDJ-SR /XECN5
	36	Base	100-SRA-3052	100-SRB-3052

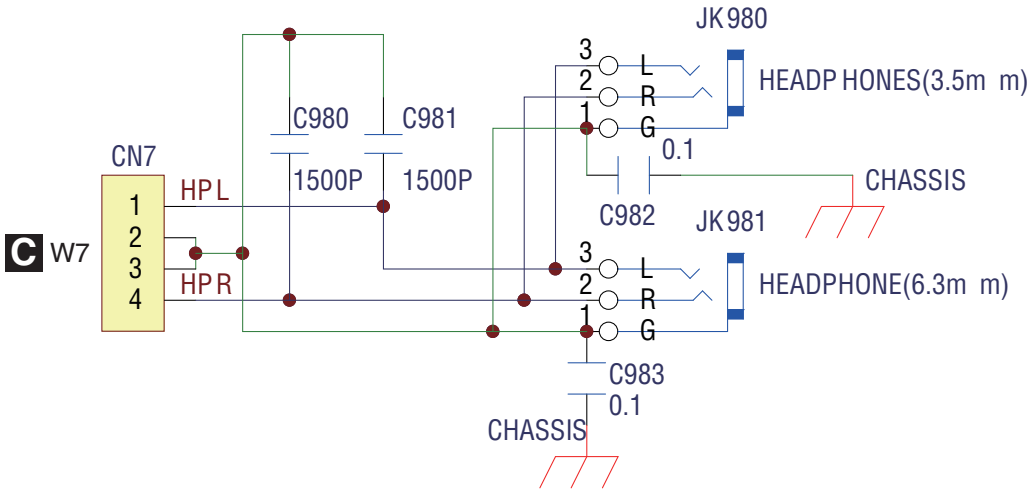
10. SCHEMATIC DIAGRAM

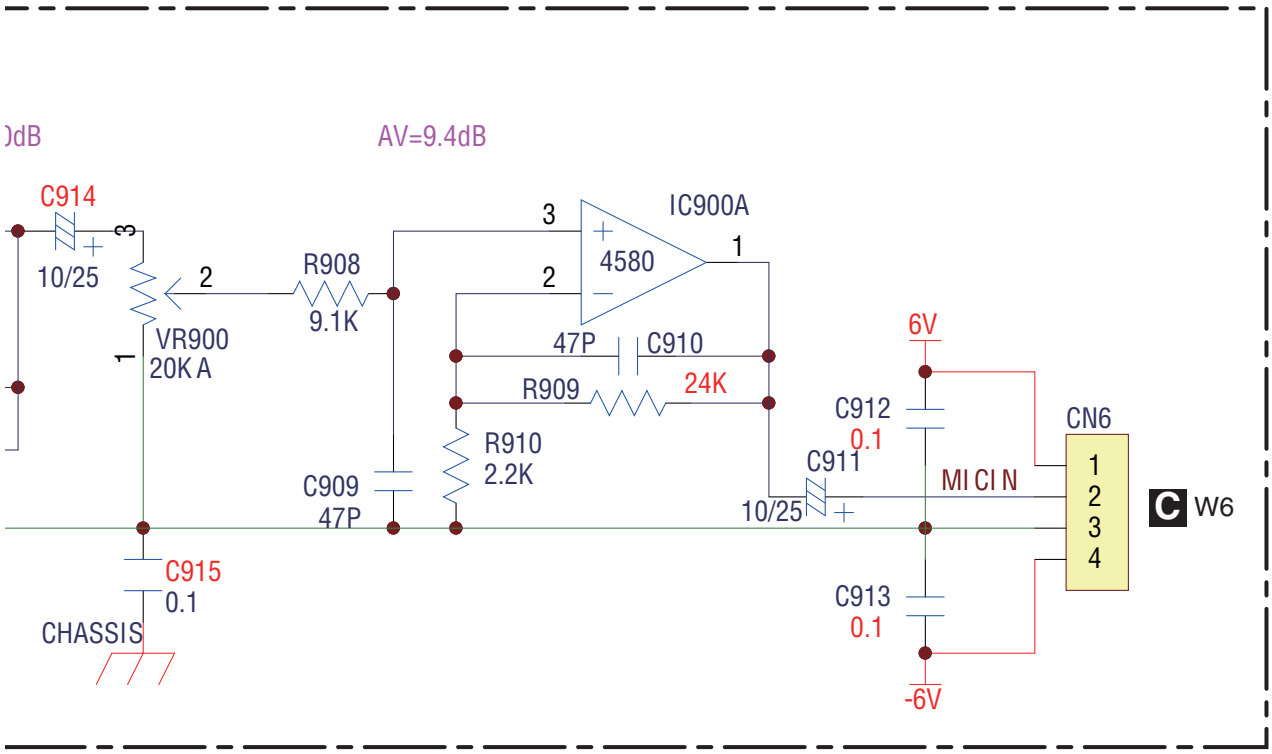
10.1 MIC and HEADPHONE PCB ASSYS

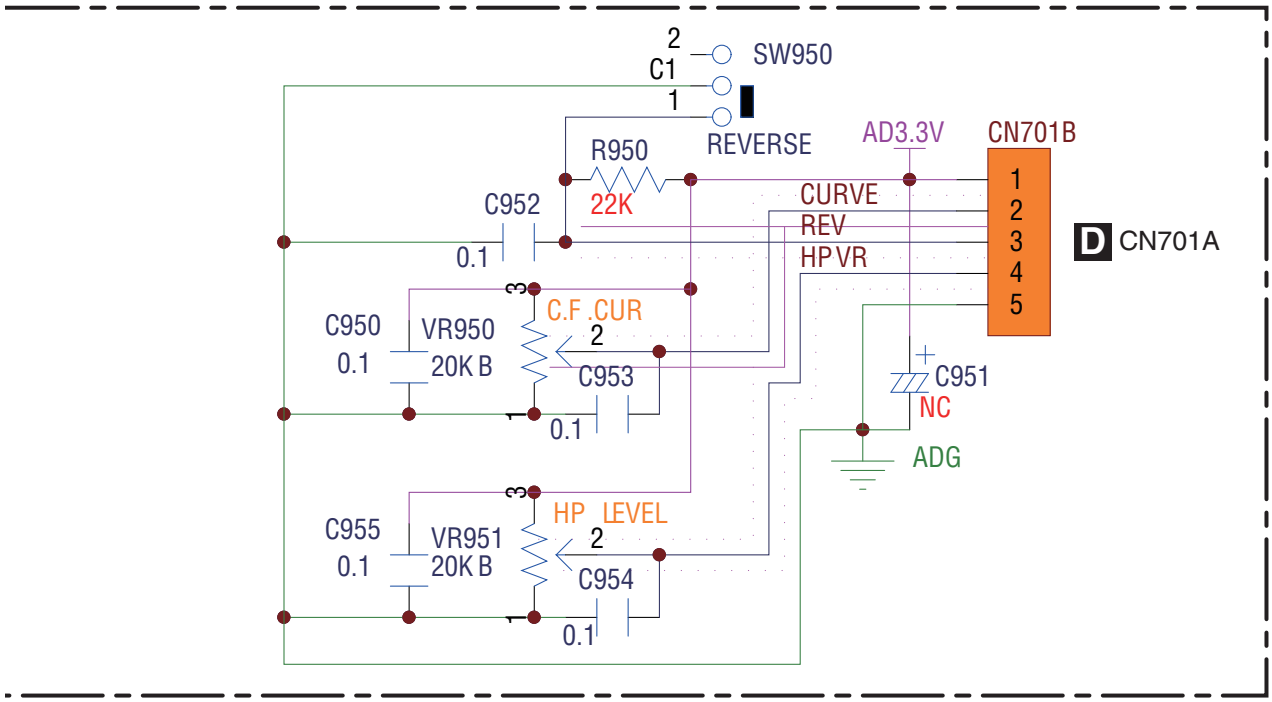
A MIC PCB ASSY (704-SR-A601)



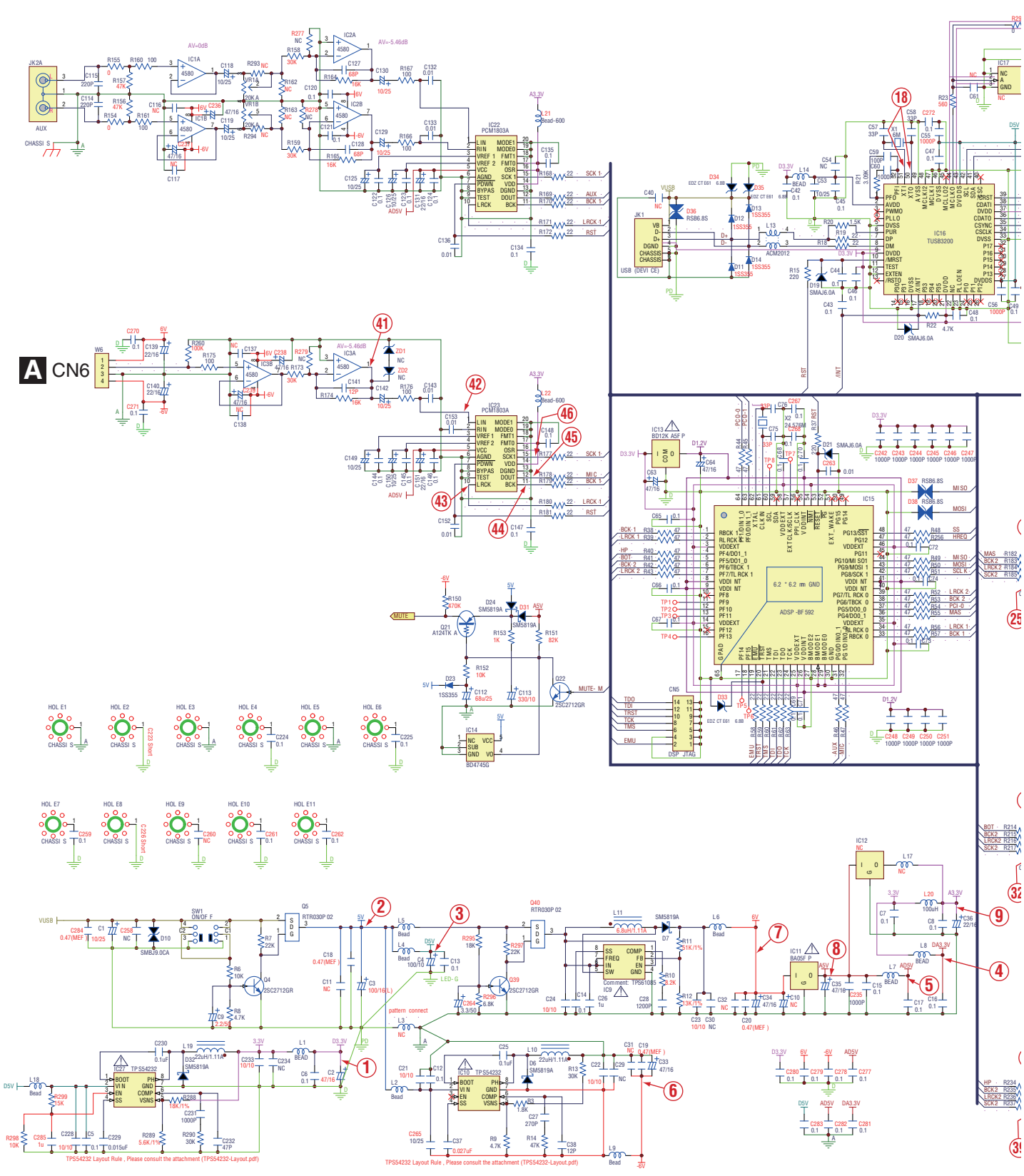
B HEADPHONE PCB ASSY (704-SR-A600)




)dB
AV=9.4dB
C914
10/25
VR900
20K A
R908
9.1K
IC900A
4580
47P
C910
R909
24K
R910
2.2K
C909
47P
C915
0.1
CHASSIS
6V
C912
0.1
C911
10/25
MI CI N
C913
0.1
-6V
CN6
1
2
3
4
C W6


SW950
C1
REVERSE
R950
22K
C952
0.1
AD3.3V
CN701B
CURVE
REV
HP VR
1
2
3
4
5
D CN701A
C.F .CUR
C950
0.1
VR950
20K B
C953
0.1
C951
NC
ADG
HP LEVEL
C955
0.1
VR951
20K B
C954
0.1

10.2 I/O PCB ASSY

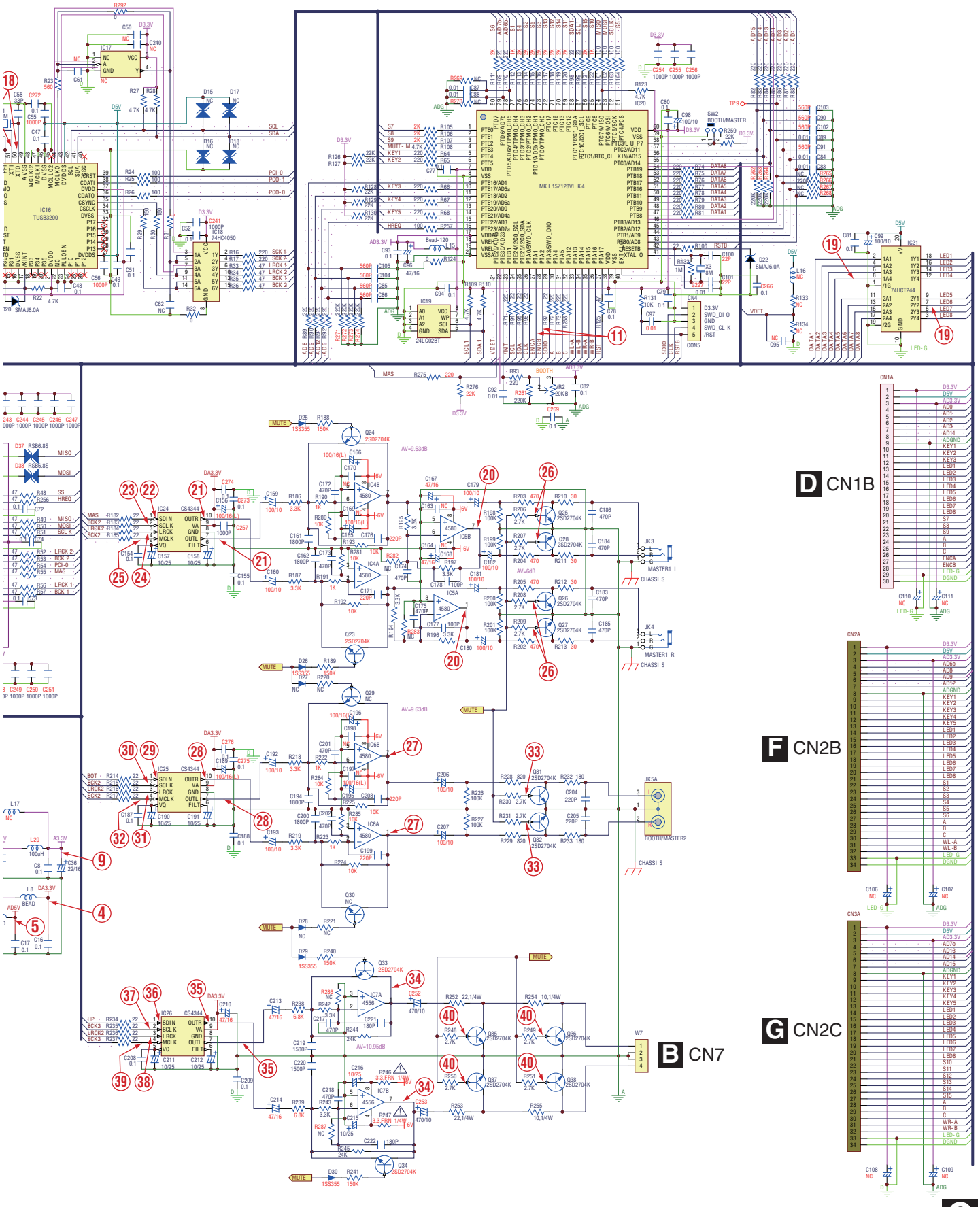


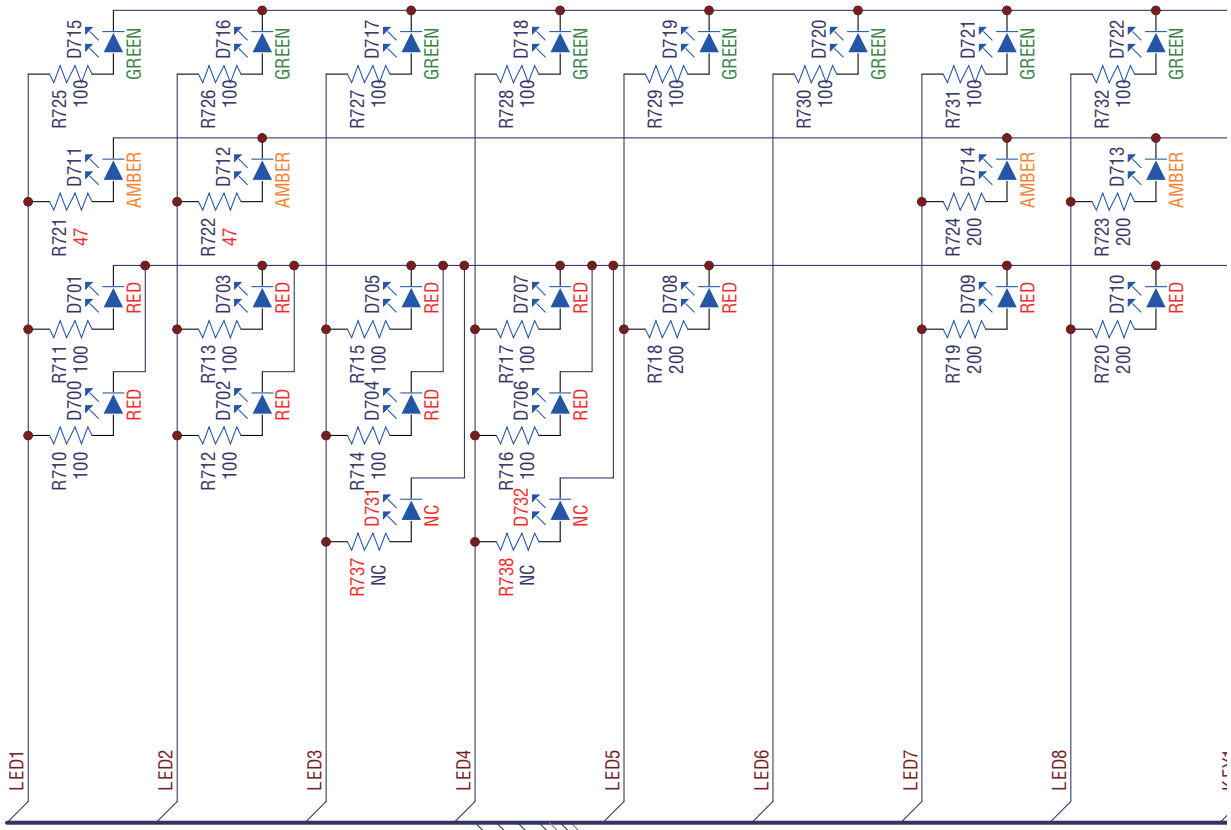
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

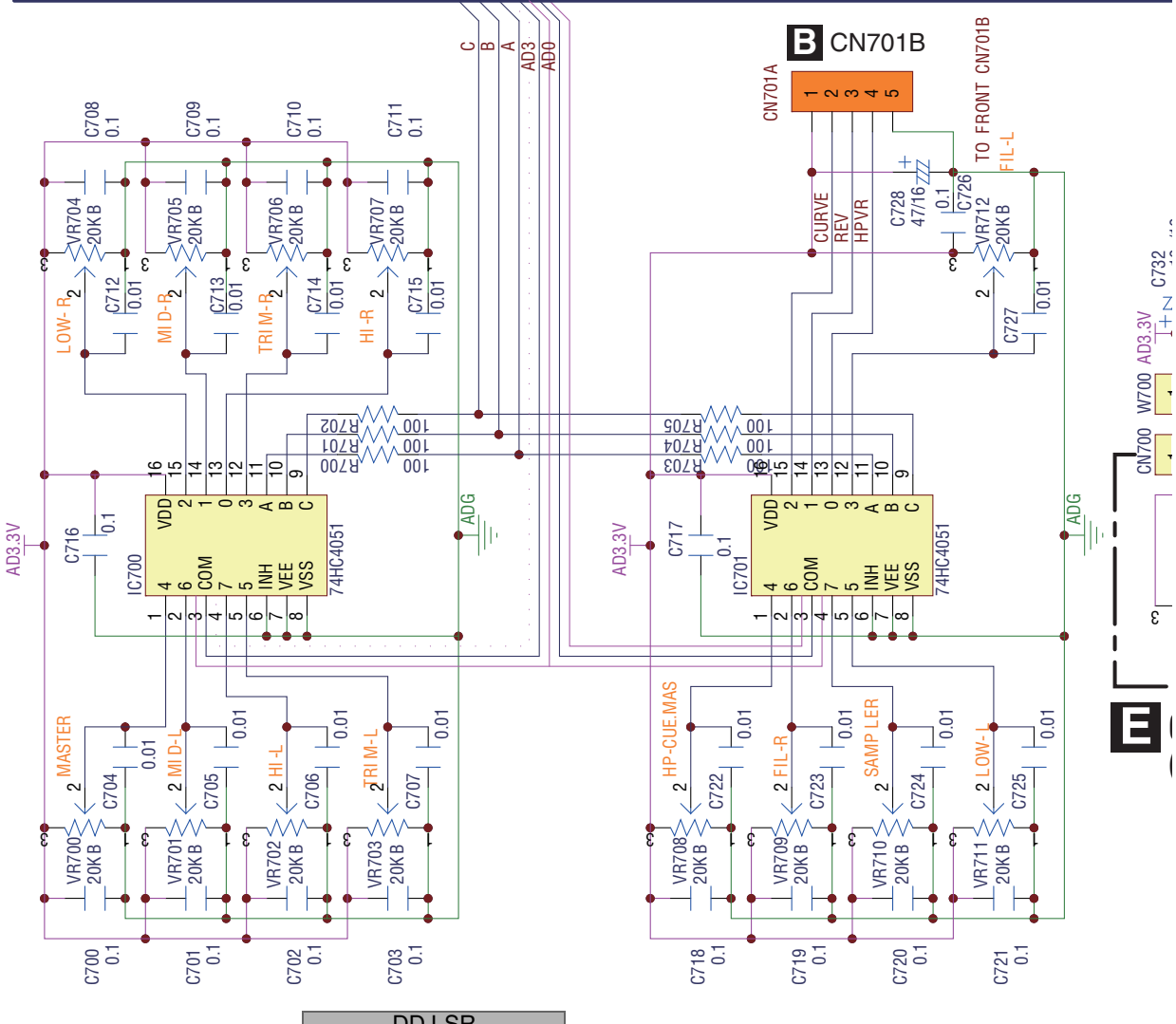
⚠ 印の部品は、安全上重要な部品です。
交換するときは、安全および性能維持のため
必ず指定の部品をご使用ください。

C

C I/O PCB ASSY (704-SR-A596)

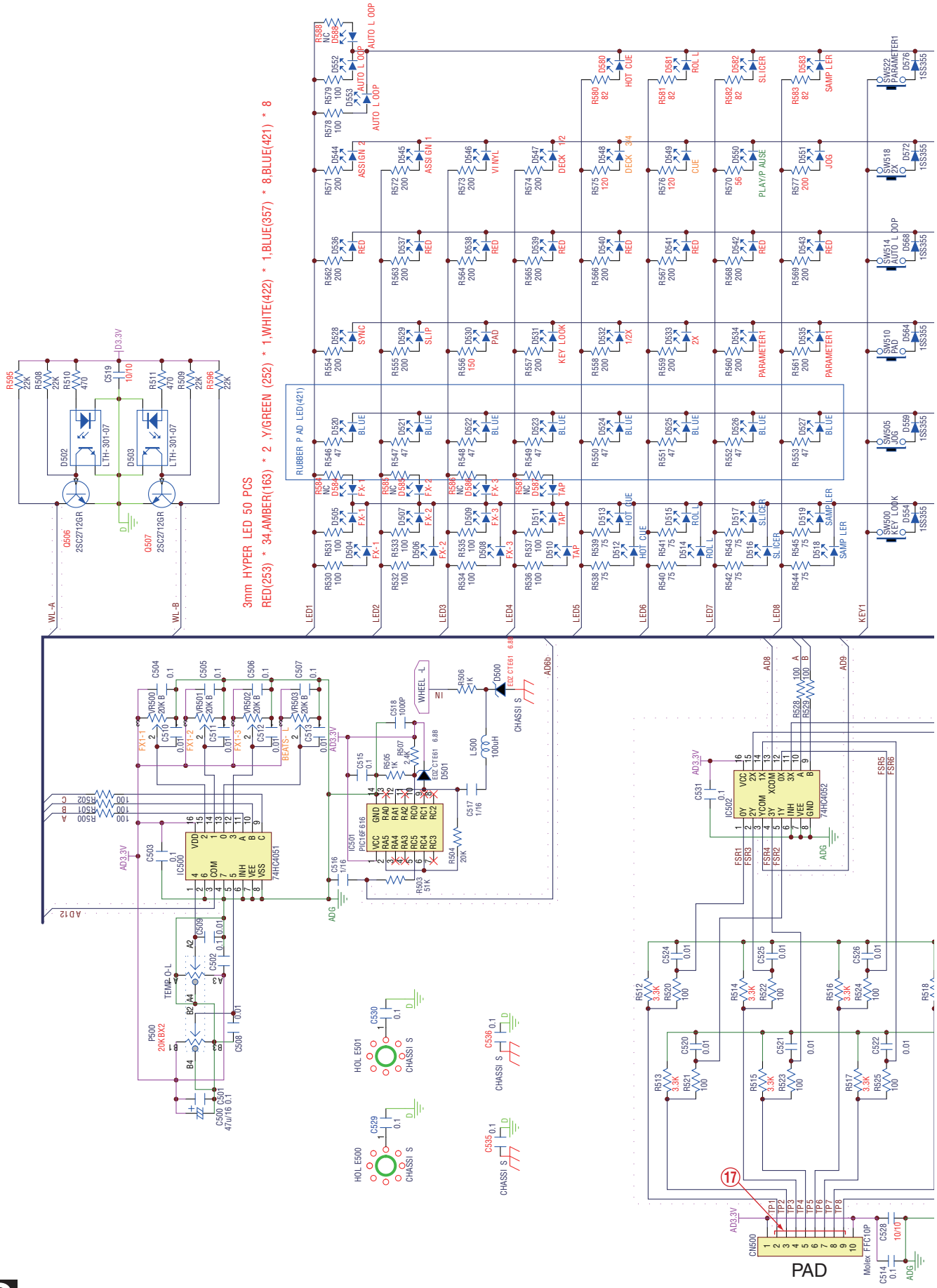



3mm HYPER LED 23 PCS
RED(253) * 11,AMBER(162) * 4 ,Y/GREEN (252) * 8
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8


B CN701B
CN701A
TO FRONT CN701B
IC700
IC701
74HC4051
AD3.3V
ADG
MASTER
MI D-L
HI -L
TRI M-L
LOW- R
MI D-R
TRI M-R
HI -R
CURVE
REV
HPVR
FIL-L
HP-CUE.MAS
FIL-R
SAMP LER
LOW- L
CN700
W700
E

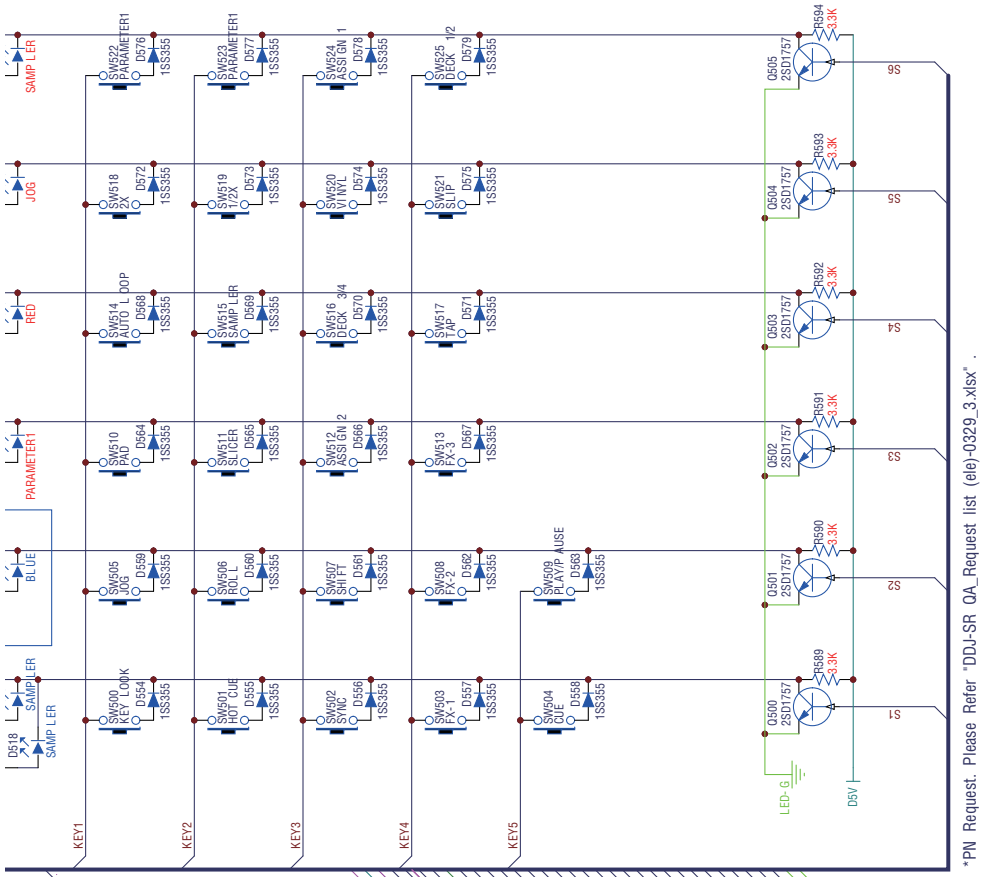
5
6
7
8
A
B
C
D
E
F
LED8
KEY1
KEY2
KEY3
R732 100
D722
GREEN
R723 200
D713
AMBER
R720 200
D710
RED
SW705 LEVEL
D728 1SS355
SW703 TACT
D726 1SS355
CUE- R
SW701 TACT
D723 1SS355
CUE- L
SW707 TACT
D730 1SS355
LOAD- L
SW704 TACT
D727 1SS355
LOAD- R
SW702 TACT
D724 1SS355
BACK
SW706 TACT
D729 1SS355
LOAD PREPARE
D725 1SS355
SW700 BROWSE
R706 22K
R702 10K
R703 10K
R707 22K
D3.3V
C739 0.01
C740 0.01
ENCB
ENCA
D
R736 33K
Q702 2SD1757
R735 33K
Q701 2SD1757
R734 33K
Q700 2SD1757
D5V
LED-G
S9
S8
S7
AD2
AD1
AD11
VR713 20K B
CH1-FA
VR714 20K B
CH2-FA
C731 0.01
C732 10u/10
C733 0.01
C734 0.01
C729 0.1
C730 0.1
AD3.3V
W700
3P
CN700
3P
VR715 20K B
CORSS FADER
ADG
C737 47u/16
D3.3V
D5V
AD3.3V
AD0
AD1
AD2
AD3
AD11
ADGND
KEY1
KEY2
KEY3
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
S7
S8
S9
A
B
C
ENCA
ENCB
LED-G
DGND
CN1B
C738 10u/25
C741 10/25
C727 0.01
C725 0.01
0.1
C CN1A
D MIXER PCB ASSY (704-SR-A597)
E CROSS FADER PCB ASSY (704-DJM250-A032)

10.4 PANEL-L and R PCB ASSYS

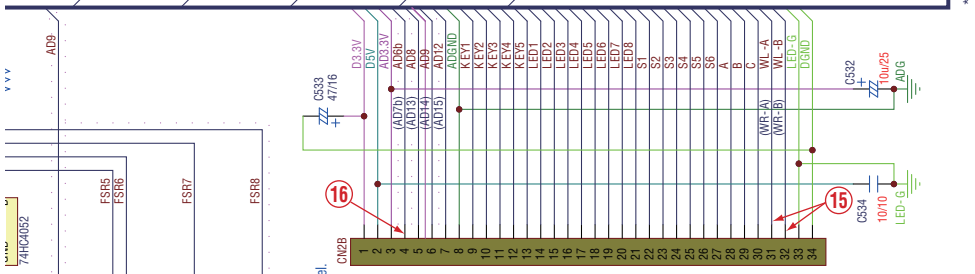


F PANEL-L PCB ASSY (704-SR-A599)

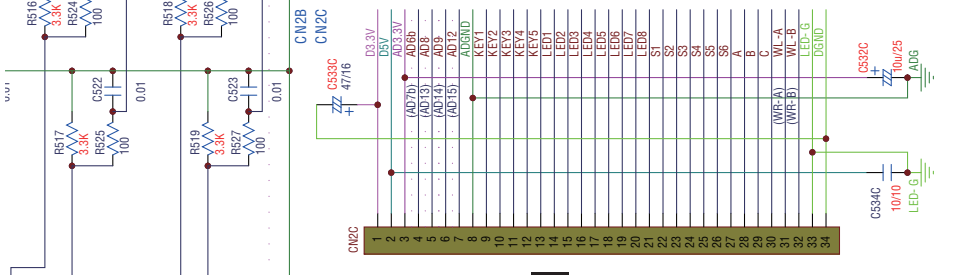
G PANEL-R PCB ASSY (704-SR-A598)



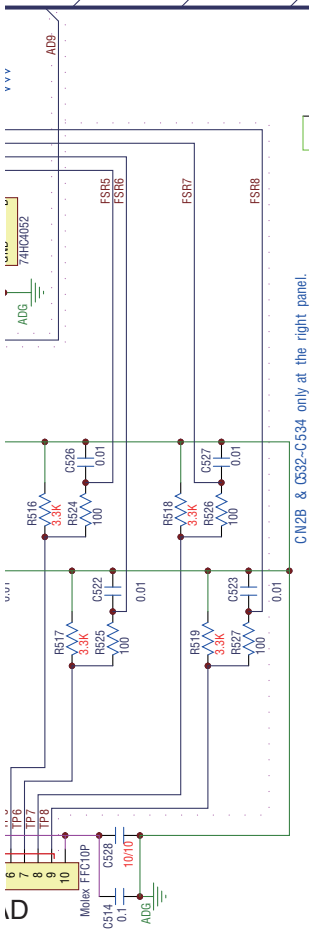
*PN Request. Please Refer "DDJ-SR QA_Request list (ele)-0329_3.xlsx" .



C CN2A (F)

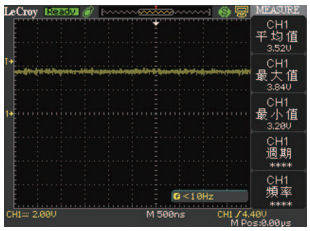


C CN3A (G)

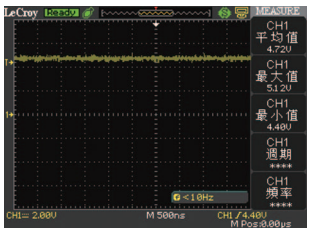


10.5 WAVEFORMS

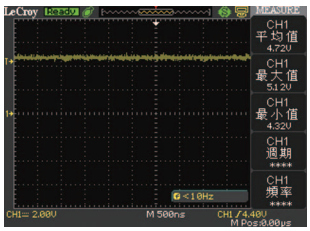
1 **C2 + side** (D3.3V)



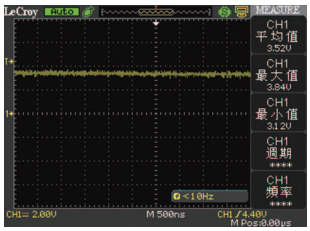
2 **C3 + side** (+5V)



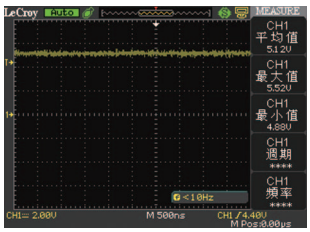
3 **C4 + side** (D5V)



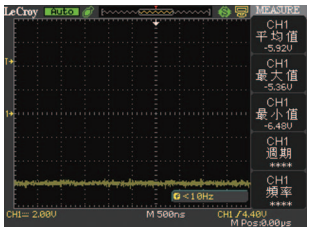
4 **C16** (DA3.3V)



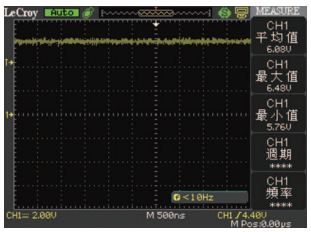
5 **C17** (AD5V)



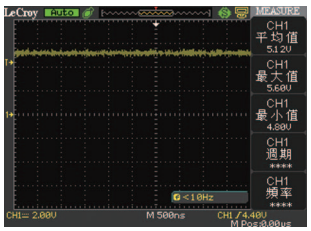
6 **C33 - side** (-6V)



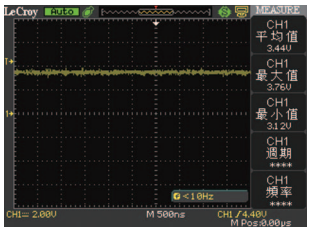
7 **C34 + side** (+6V)



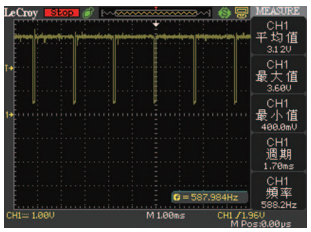
8 **C35 + side** (A5V)



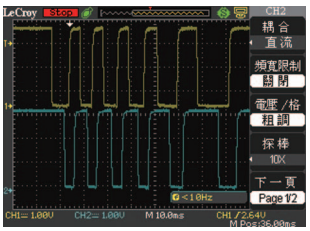
9 **C36 + side** (A3.3V)



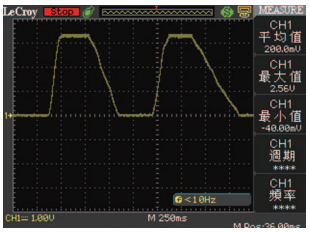
10 **TACT SW pin**



11 **IC20 pins 27, 28**

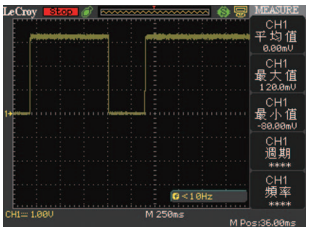


12 **SLIDER VR pin** (AD)

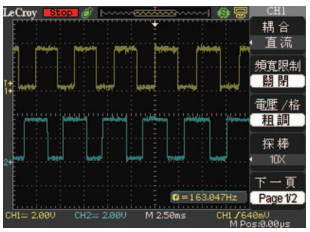


13

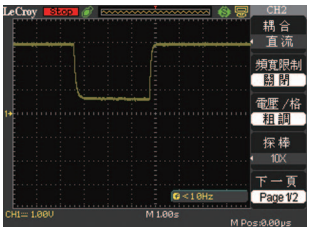
14 **SELECT SW pin** (AD)



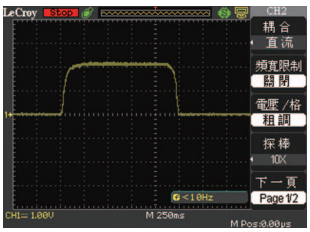
15 **CN2B pins 31, 32**



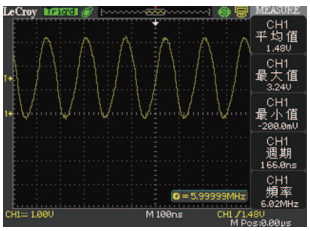
16 **CN2B pin 4**



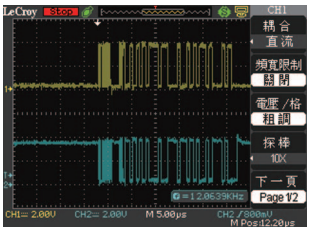
17 **CN500 pins 2 to 9**



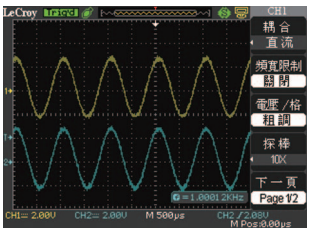
18 **IC16 pins 51, 50**



19 **IC21 pins 7, 8**



20 **IC5 pins 1, 7** (1 kHz IN)



A

B

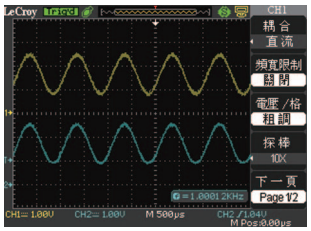
C

D

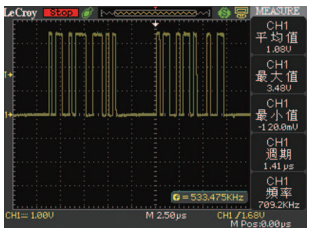
E

F

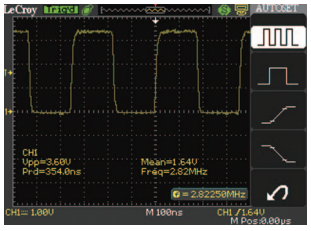
21 **IC24 pins 7, 10** (1 kHz IN)



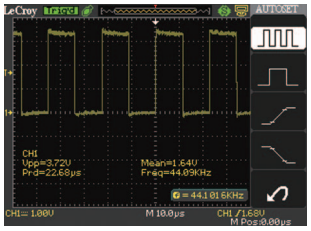
22 **IC24 pin 1** (MAS)



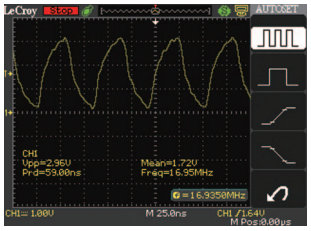
23 **IC24 pin 2** (BCK)



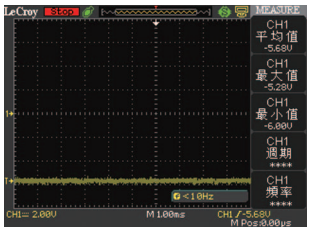
24 **IC24 pin 3** (LRCK)



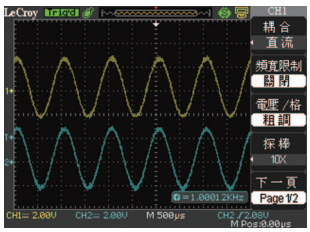
25 **IC24 pin 4** (SCK)



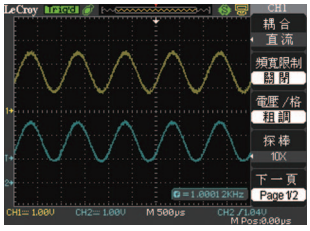
26 **Q25 to Q28 base** (-6V)



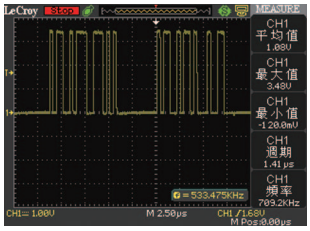
27 **IC6 pins 1, 7** (1 kHz IN)



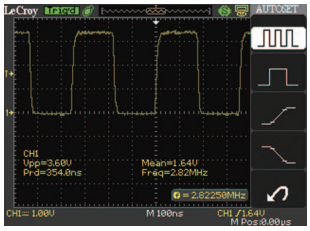
28 **IC25 pins 7, 10** (1 kHz IN)



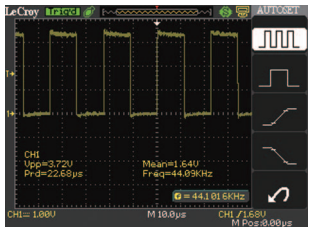
29 **IC25 pin 1** (BOT)



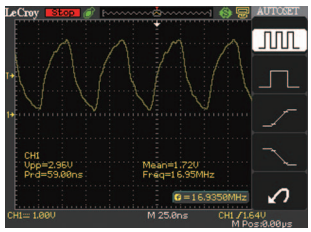
30 **IC25 pin 2** (BCK)



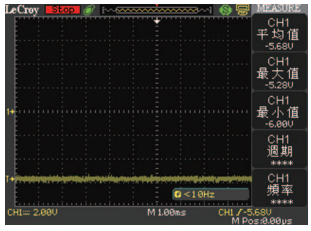
31 **IC25 pin 3** (LRCK)



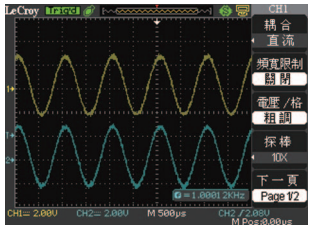
32 **IC25 pin 4** (SCK)



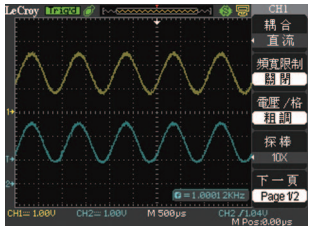
33 **Q31, Q32 base** (-6V)



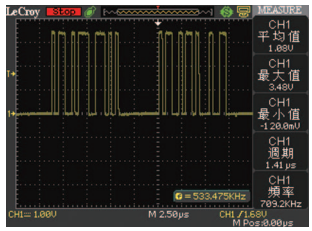
34 **IC7 pins 1, 7** (1 kHz IN)



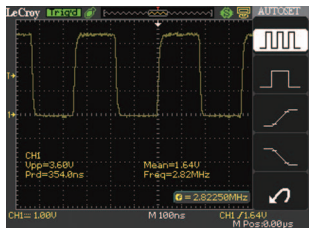
35 **IC26 pins 7, 10** (1 kHz IN)



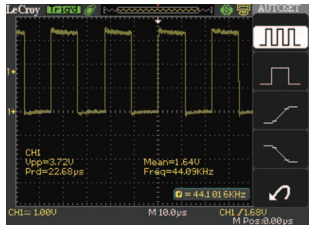
36 **IC26 pin 1** (HP)



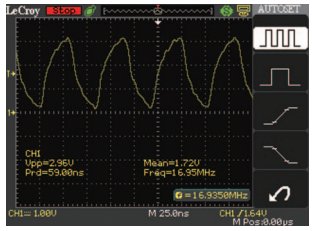
37 **IC26 pin 2** (BCK)



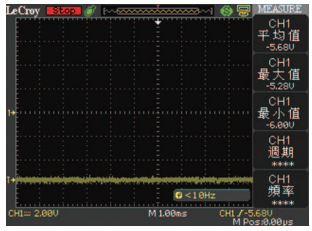
38 **IC26 pin 3** (LRCK)



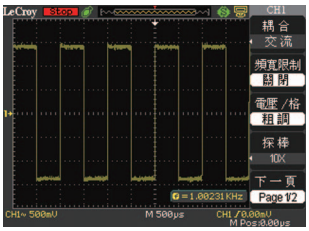
39 **IC26 pin 4** (SCK)



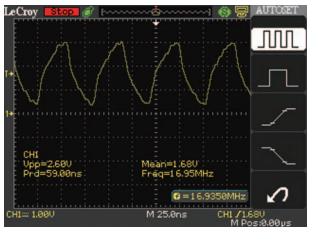
40 **Q35 to Q38 base** (-6V)



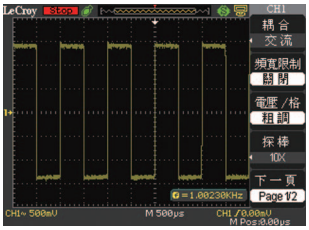
41 **IC3 pin 1** (1 kHz IN)



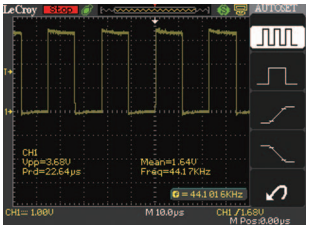
46 **IC23 pin 15** (SCK)



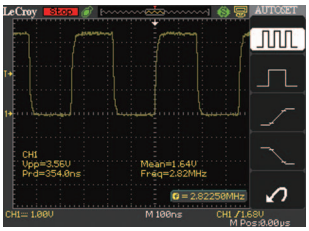
42 **IC23 pin 1** (1 kHz IN)



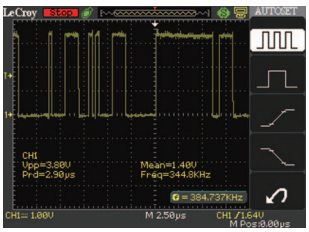
43 **IC23 pin 10** (LRCK)



44 **IC23 pin 11** (BCK)



45 **IC23 pin 12** (MIC)



A

B

C

D

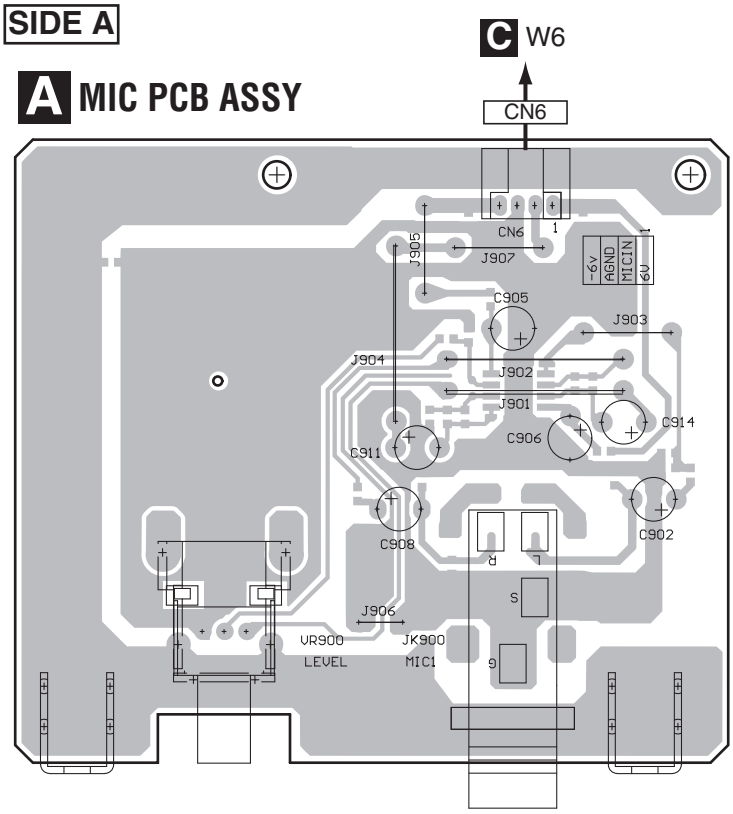
E

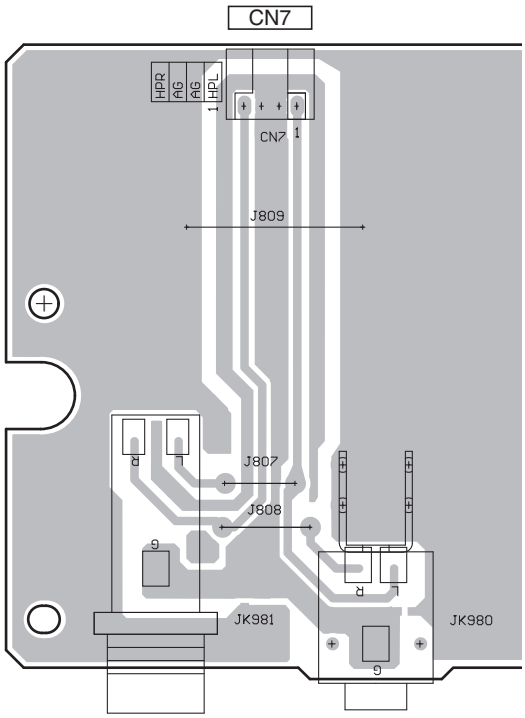
F

11. PCB CONNECTION DIAGRAM
11.1 MIC and HEADPHONE PCB ASSYS

SIDE A

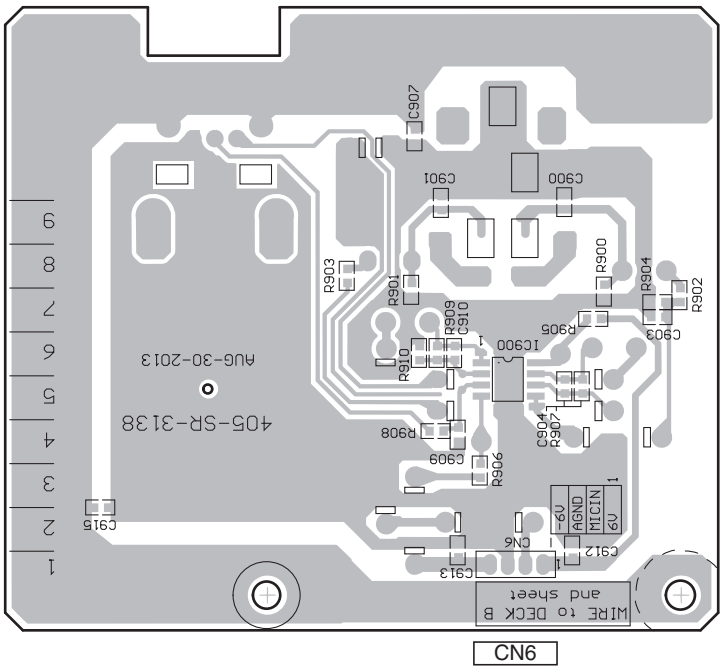
A MIC PCB ASSY

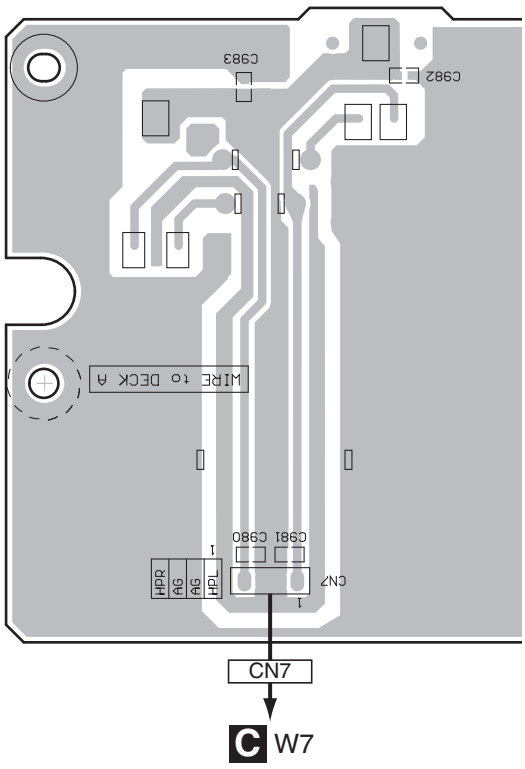




SIDE B

A MIC PCB ASSY



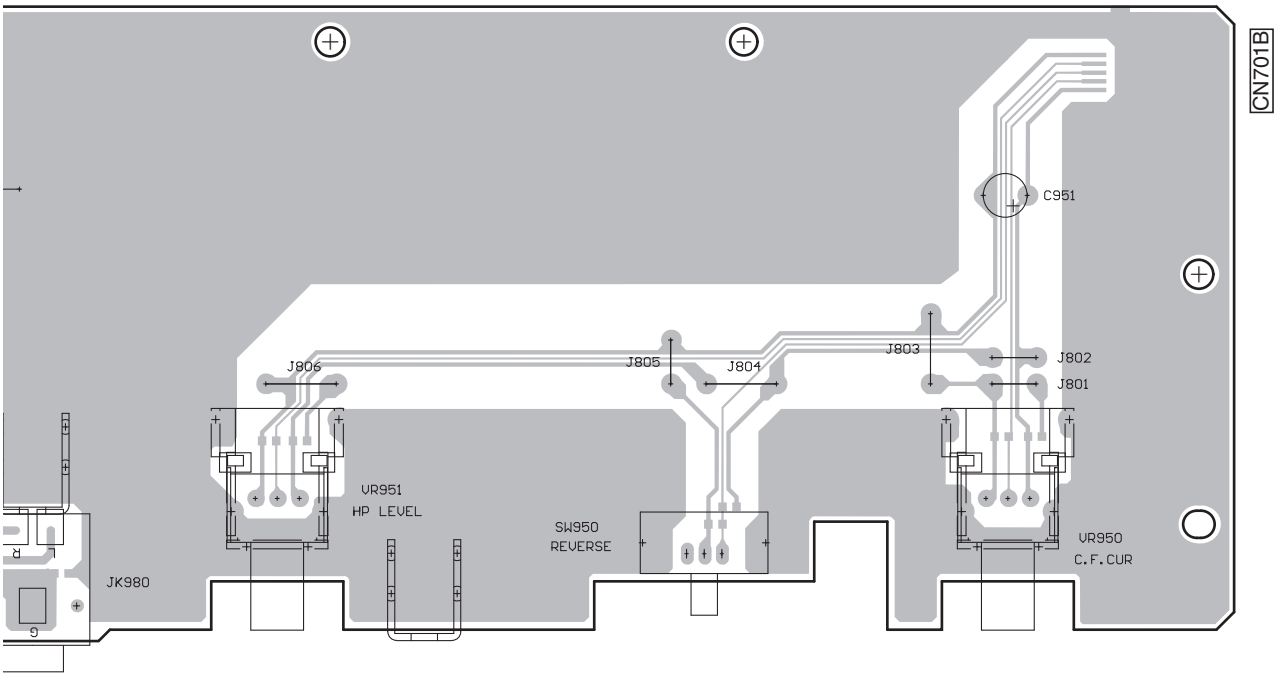


IC900

A B

SIDE A

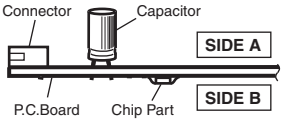
B HEADPHONE PCB ASSY



NOTE FOR PCB DIAGRAMS :

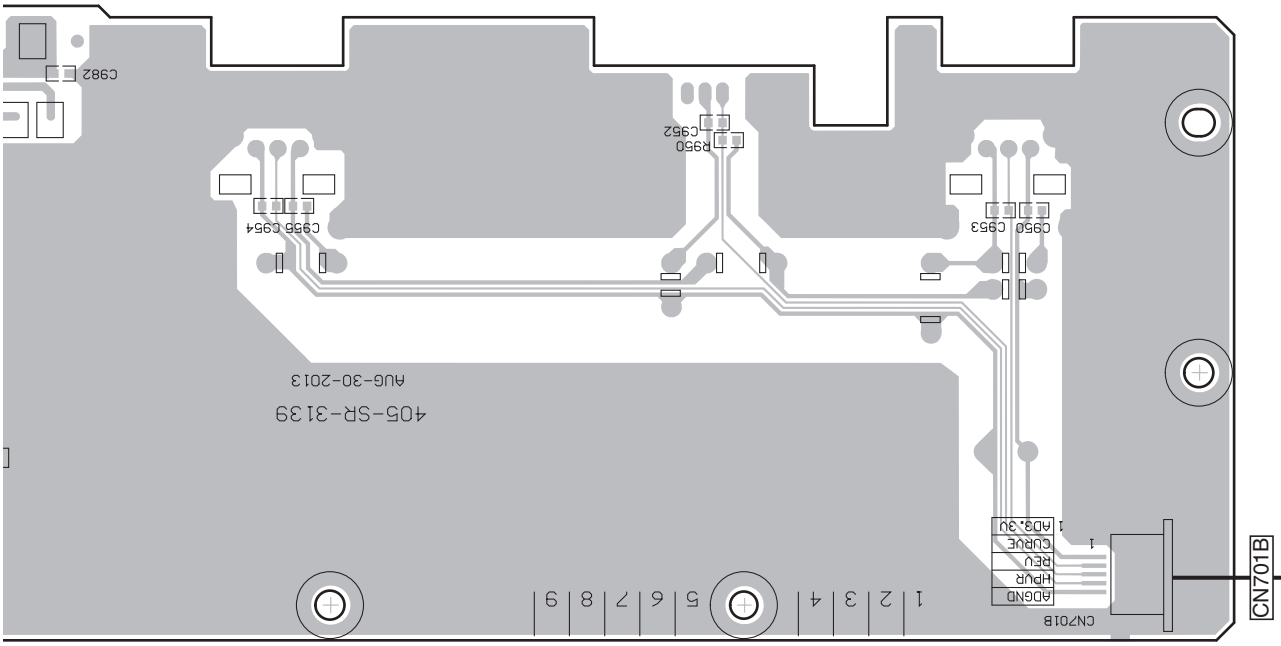
1. The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.

2. View point of PCB diagrams.



SIDE B

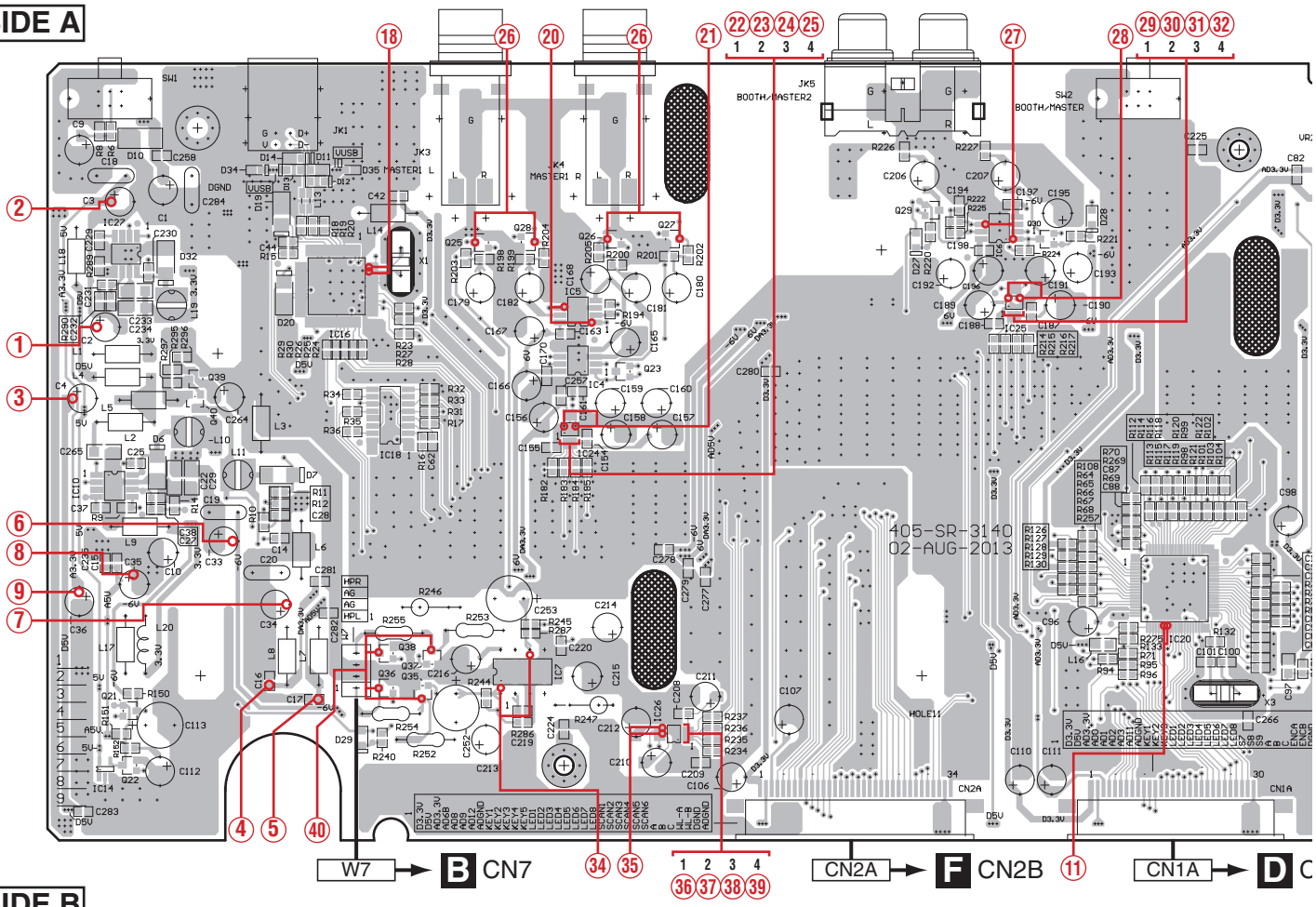
B HEADPHONE PCB ASSY



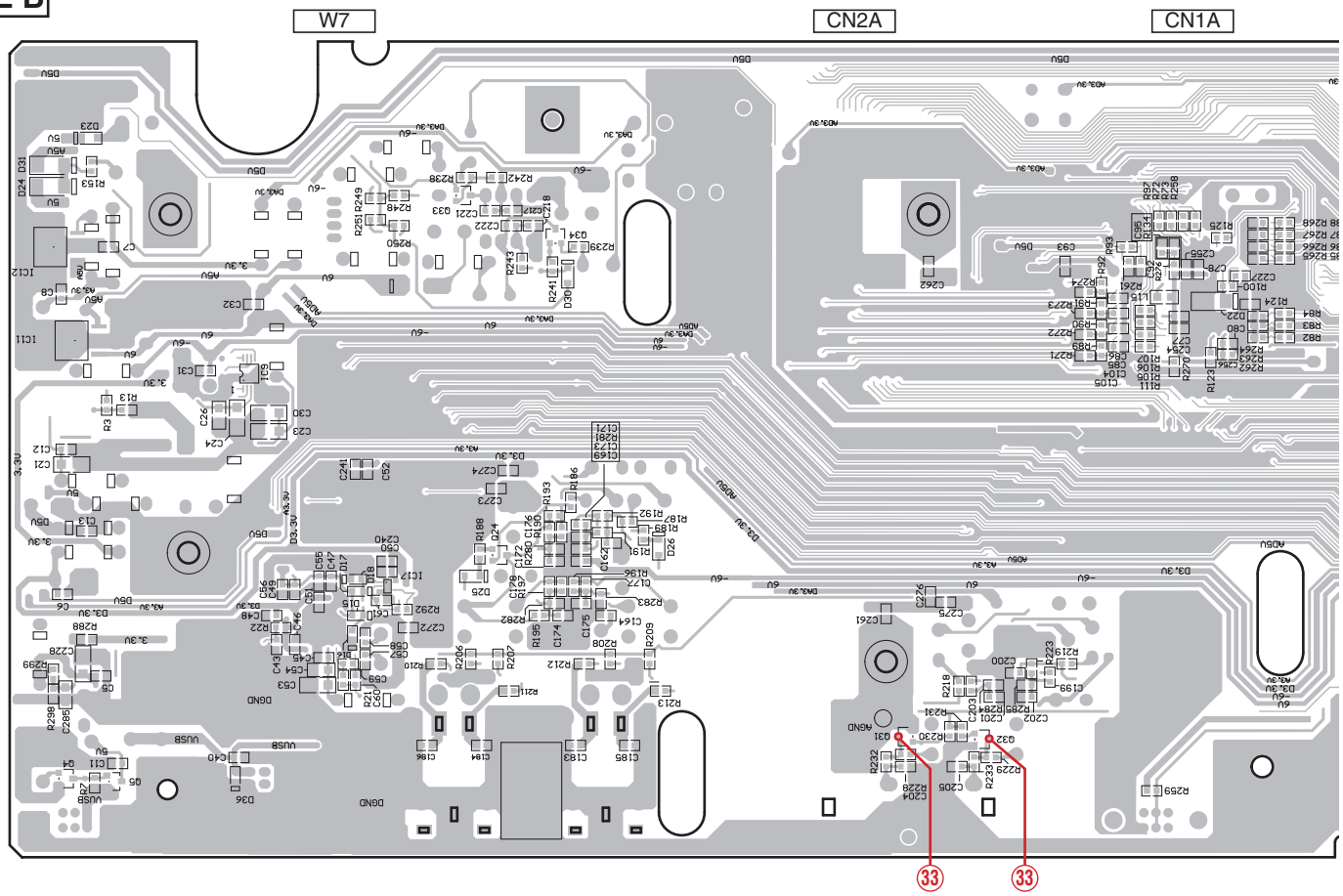
D CN701A

11.2 I/O PCB ASSY

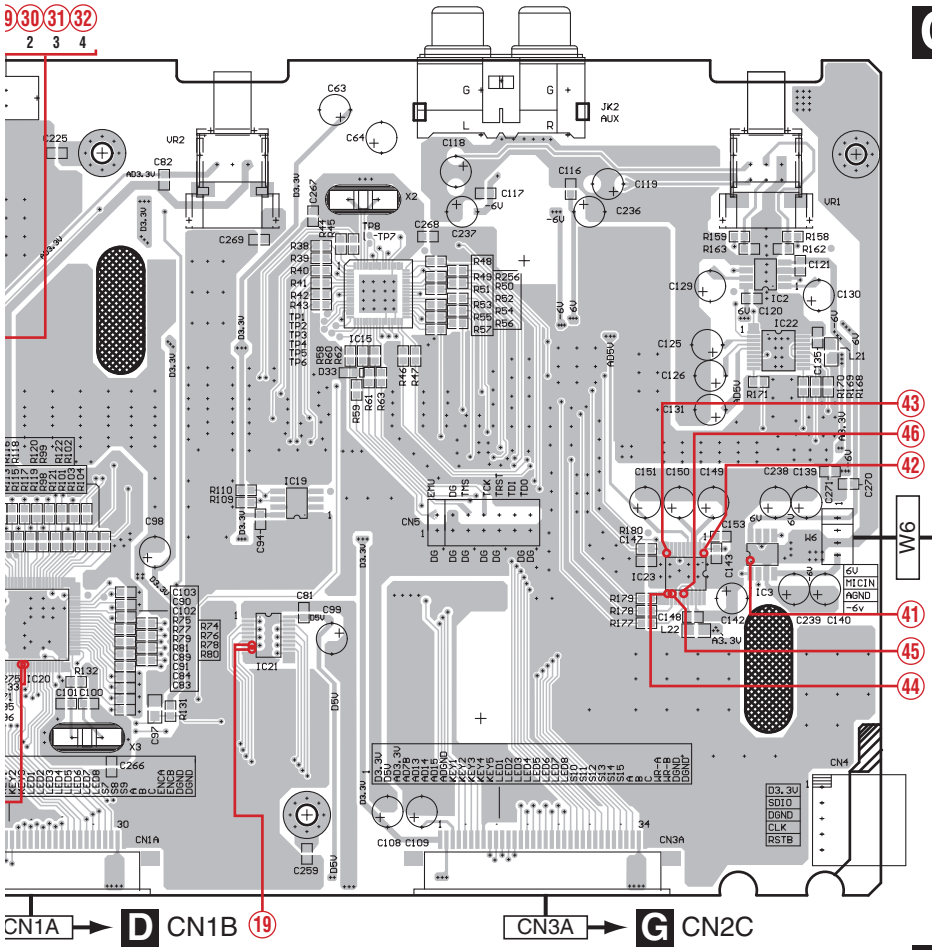
SIDE A



SIDE B

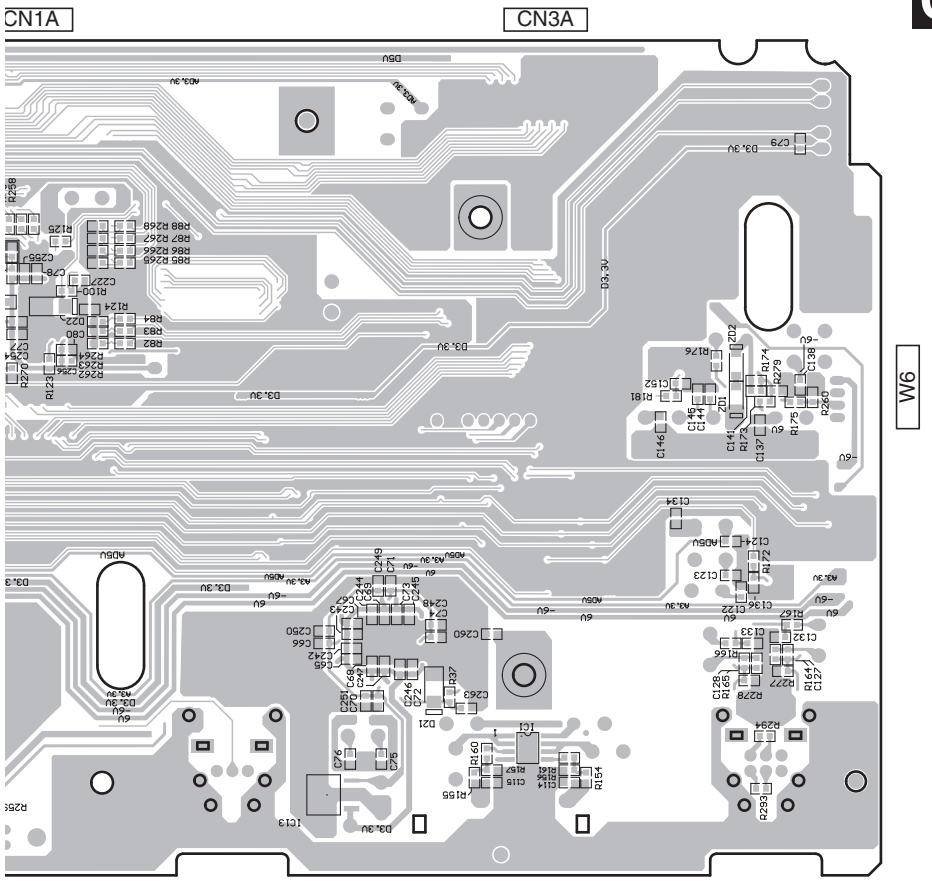


C I/O PCB ASSY — SIDE A



A
IC27 Q25-Q28 Q29 IC16 Q30 IC2
IC16 IC6 IC25 IC15
IC5 IC4 IC22
Q39 Q23 B
Q40 IC18 IC24
IC10 IC19
IC3 IC23
IC20 IC21
Q35-Q38 IC7 C
Q21 IC26
Q22 IC14

C I/O PCB ASSY — SIDE B



D
Q33
Q43 IC12
IC11
IC9 E
Q24
Q31 Q32 IC1
Q4 Q5 IC13 F

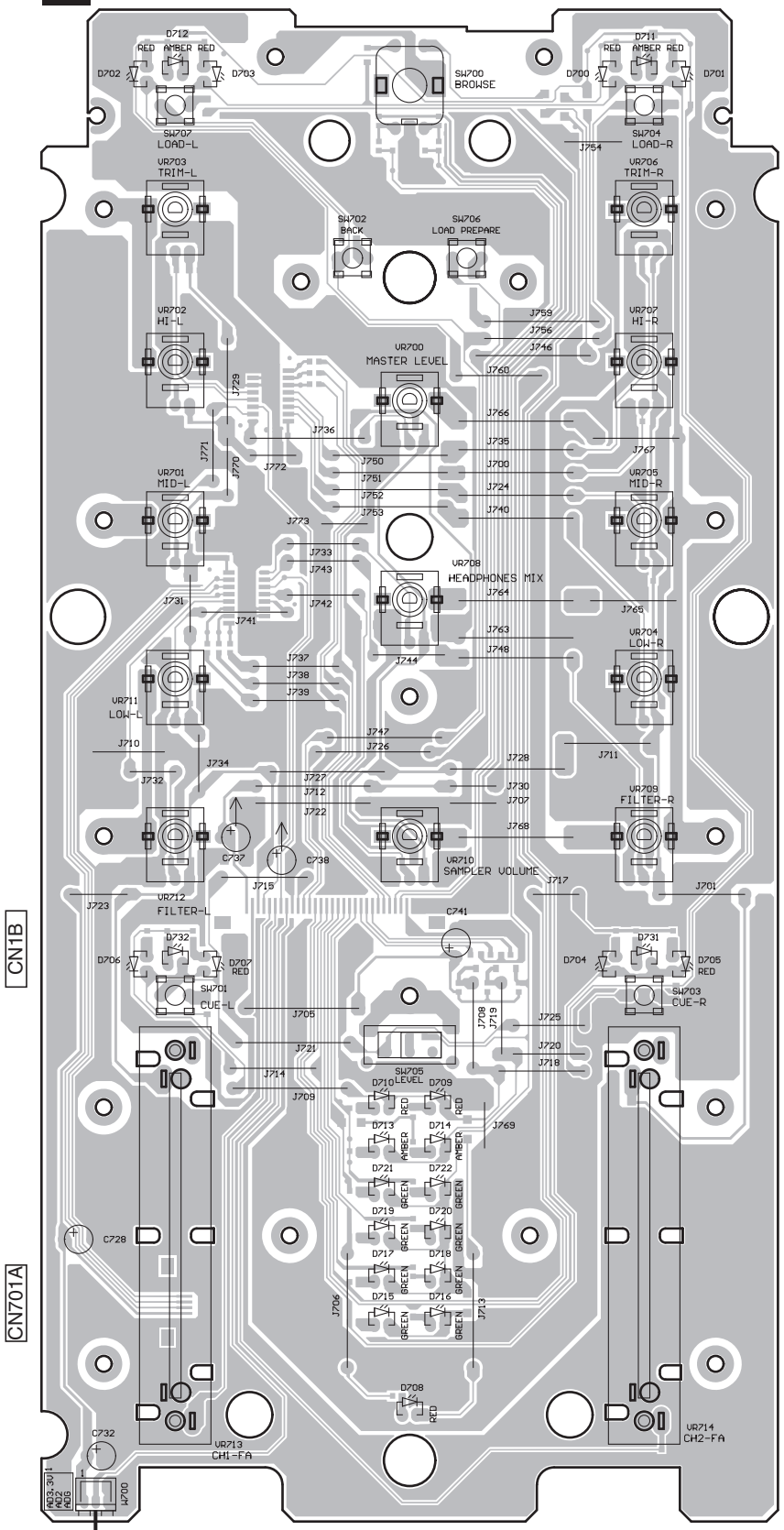
C

11.3 MIXER and CROSS FADER PCB ASSYS

SIDE A

D MIXER PCB ASSY

SIDE A



E CROSS FADER PCB ASSY

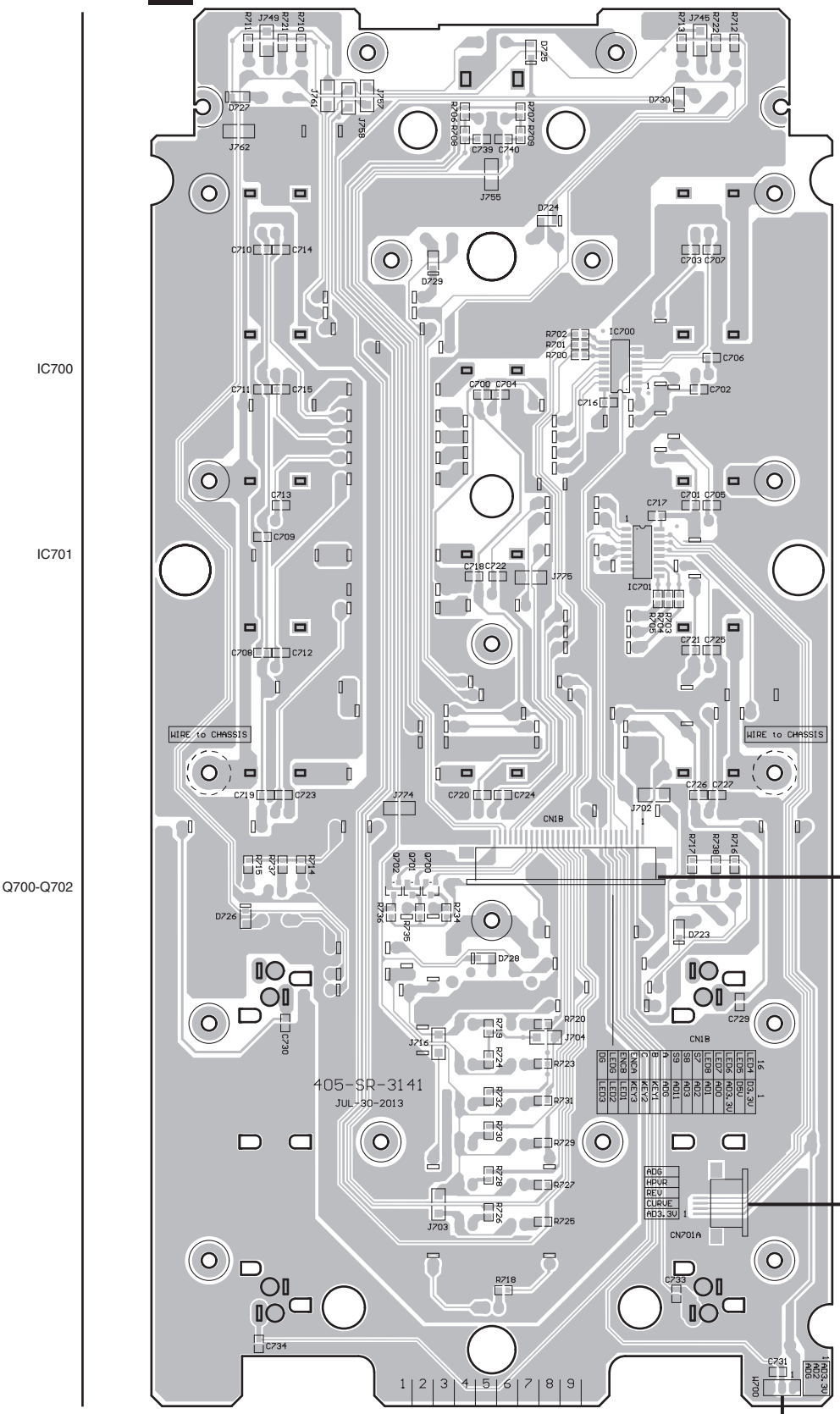
D E

DDJ-SR

SIDE B

D MIXER PCB ASSY

SIDE B



CN1B → C CN1A

CN701A → B CN701B

E CROSS FADER PCB ASSY

DDJ-SR

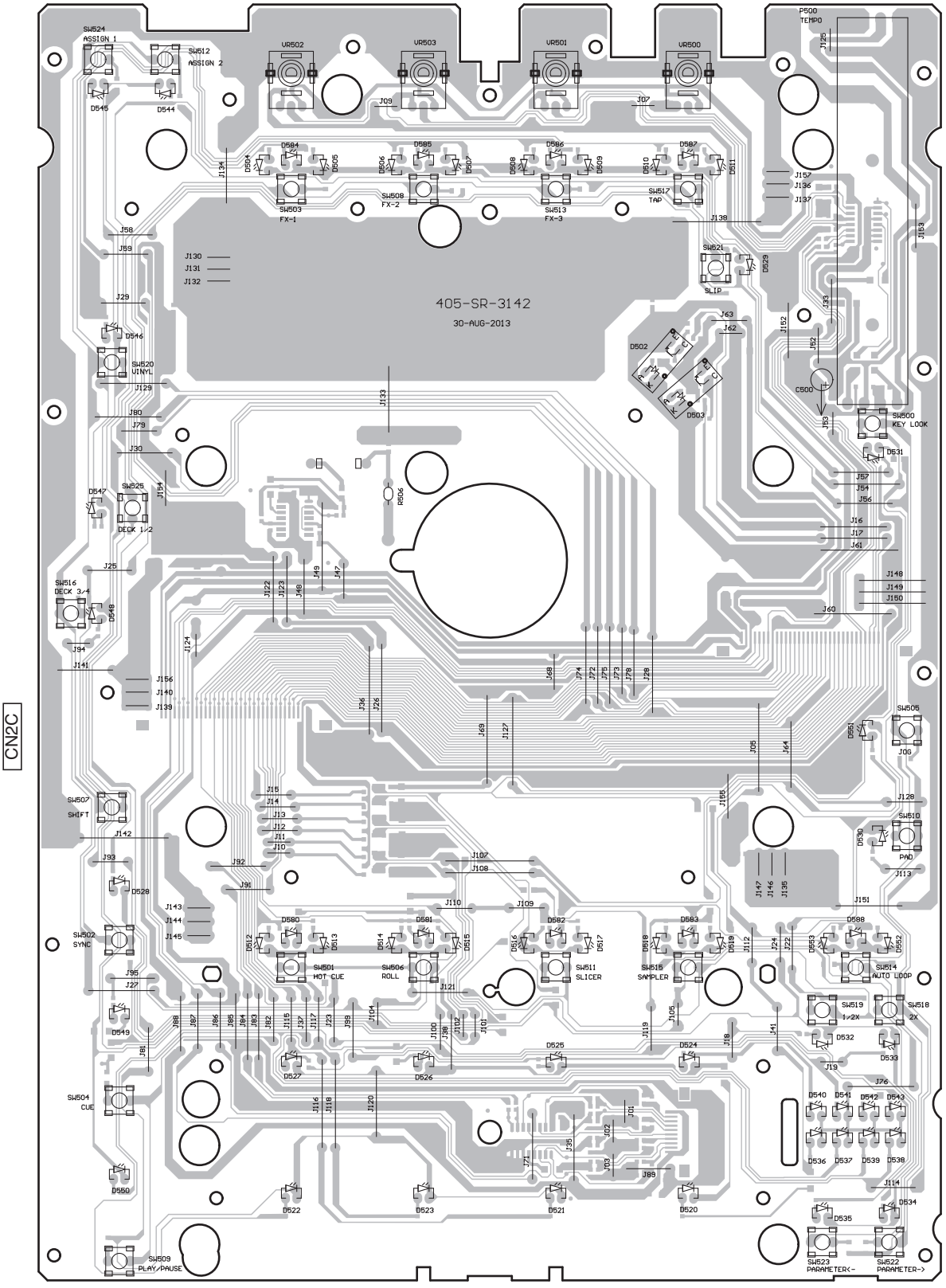
11.4 PANEL-L and R PCB ASSYS

SIDE A

SIDE A

F PANEL-L PCB ASSY

G PANEL-R PCB ASSY

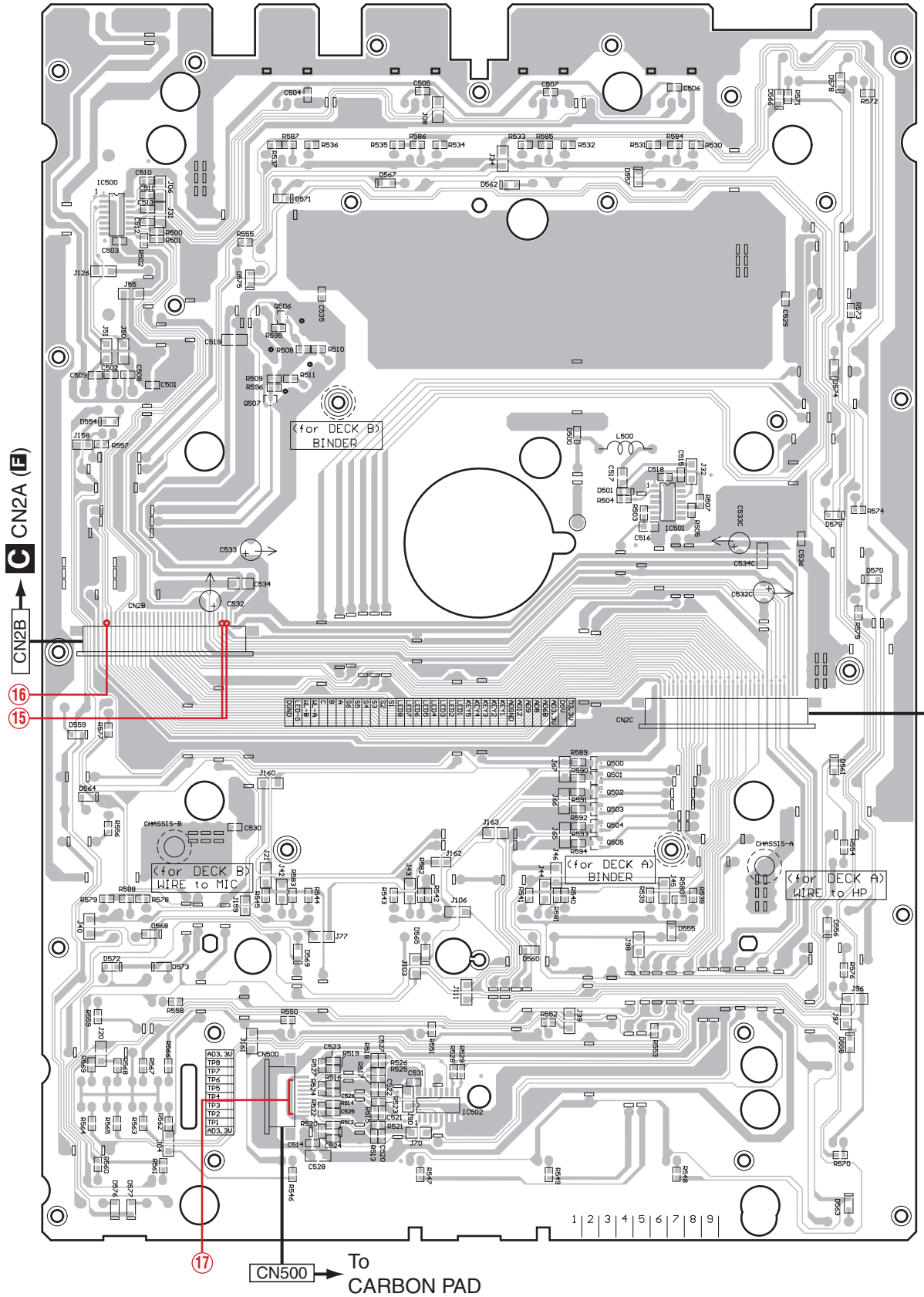


F G

SIDE B

SIDE B

F PANEL-L PCB ASSY
G PANEL-R PCB ASSY



12. PCB 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.*

● *Although the cables that are directly mounted on each PCB Assy are listed individually as electrical parts of the corresponding PCB Assy in the parts list, those cables are included with each PCB Assy for service when it is supplied.*

Mark	No.	Description	Part No.

LIST OF ASSEMBLIES

		MIC PCB ASSY	704-SR-A601
		HEADPHONE PCB ASSY	704-SR-A600
		I/O PCB ASSY	704-SR-A596
		MIXER PCB ASSY	704-SR-A597
		CROSS FADER PCB ASSY	704-DJM250-A032
		PANEL-L PCB ASSY	704-SR-A599
		PANEL-R PCB ASSY	704-SR-A598

Mark	No.	Description	Part No.

A MIC PCB ASSY

MISCELLANEOUS

		FIXED PLATE	300-4500-2010A
		VR FIXED PLATE	300-6000-1874
		PH FIXED PLATE	300-S1-2061
	CN 6	4P SOCKET	404-DCM270E3-878A
	JK 900	MIC JACK	420-SMX211-137

RESISTORS

	VR 900		418-SR-712

CAPACITORS

	C	907,912,913,915	413-DCM280-773
	C	908	413-HT801K-193
	C	905,906,911,914	413-SPPW3-235
	C	902	413-SPPW3-236

B HEADPHONE PCB ASSY

MISCELLANEOUS

		FIXED PLATE	300-4500-2010A
	VR 950,951	VR FIXED PLATE	300-6000-1874
	JK 981	PH FIXED PLATE	300-S1-2061
	SW950	SLIDE SW	403-SR-435
	CN 7	4P SOCKET	404-DCM270E3-878A
	JK 980	HEADPHONE JACK	420-HDJ7100-063
	JK 981	3P PHONE JACK	420-HMJ1001-5034

RESISTORS

	VR 950,951		418-SR-710

CAPACITORS

	C	950,952-955,982,983	413-DCM280-773

C I/O PCB ASSY

SEMICONDUCTORS

	Q	23-28,31-38	416-3000-378
	Q	4,22,39	416-CTB200-166
	Q	21	416-HDJ9700-210
	Q	5,40	416-UDJ200-347
	D	6,7,24,31,32	414-007USB-148
	D	11-14,23,25,26,29,30	414-CD1000-075A
	D	10	414-DDJLE-348
	D	36-38	414-DJ1100G-207
	D	33-35	414-RMP3-285
	D	19-22	414-UDJ200-284

MISCELLANEOUS

	VR 1,2	VR FIXED PLATE	300-6000-1874
		PH FIXED PLATE	300-S1-2061
		GROUND PLATE	300-S1-2069
	SW1,2	SLIDE SW	403-COMBO-427
	W 7	4P CONNECTOR WIRE	404-SR-3797
	W 6	4P CONNECTOR WIRE	404-SR-3799
	L 20	INDUCTANCE	415-USOLOPA-342
	JK 1	USB JACK (USB-B (F))	420-007USB-150
	JK 2,5	2P RCA JACK	420-HDJ7000-045
	JK 3,4	3P PHONE JACK	420-HMJ1001-5034
	X 1	CRYSTAL (6 MHz)	427-S1-143
	X 2	CRYSTAL (24.576 MHz)	427-S1-145
	X 3	CRYSTAL (8 MHz)	427-SUB-149
		SPONGE	612-4MIX-416
	L 21,22	CHIP BEAD	415-1300-240A
	L 11	INDUCTOR	415-DDJLE-407
	L 13	TDK COMMON MODE FILTERS	415-FU800-305
	L 15	TDK CHIP BEAD	415-FU801-316
	L 10,19	POWER CHOKE	415-MC6000-356
	L 1,2,4-9,14,18	BEAD CORE	415-HV3500K-090

RESISTORS

	VR 2		418-SR-710
	VR 1		418-SR-711
	R 10		412-900-987
	R 18,19,58-63,94-100,168-172		412-CDVD2001-554
	R 177-185,214-217,234-237		412-CDVD2001-554
	R 21		412-PDJ1-1291
⚠	R 246,247		412-SR-1680
	R 252,253		412-3113-089
	R 254,255		412-BJ2300I-468

CAPACITORS

	C	3,156,165,166,189,195,196	413-MC6000-1192
	C	112	413-SR-1299
	C	5-8,12-17,25,42-52,65-74,77-82	413-DCM280-773
	C	93,94,120-124,134,135,144-148	413-DCM280-773
	C	154,155,187,188,208,209,224	413-DCM280-773
	C	225,230,259,261,262,266-283	413-DCM280-773
	C	53,265	413-MC6000-1180
	C	113	413-007USB-828
	C	2,33-35,63,64,96,167,168	413-CDVD2001-265
	C	210,213,214,236-239	413-CDVD2001-265
	C	9	413-DV300-5156

Mark	No.	Description	Part No.
	C	4,98,99,159,160,192,193	413-HMA2200-5017
	C	179-182,206,207	413-HMA2200-5017
	C	264	413-HPR1-821
	C	252,253	413-HT8015-169
	C	18-20,284	413-QSPAND-632
	C	1,118,119,125,126,129,130	413-SPPW3-235
	C	142,149,150,157,158,190	413-SPPW3-235
	C	191,211,212,215,216	413-SPPW3-235
	C	36,131,139,140,151	413-SPPW3-236

D MIXER PCB ASSY

SEMICONDUCTORS

	Q	700-702	416-MC6000-374
	D	715-722	410-DJ5000-252T
	D	723-730	414-CD1000-075A
	D	700-710	410-DJ5000-253T
	D	711-714	410-HDJ2000-162T

MISCELLANEOUS

	SW701-704,706,707	TACT SW	403-DDJLE-419
	SW700	ENCODER	403-DDJLE-418
	SW705	SLIDE SW	403-SR-434
	W 700	3P 2.5 CONNECTOR WIRE	404-SR-3798
	D 715-722	LED HOLDER	504-RMX30-158

RESISTORS

VR 713,714		418-PDJ33-672
VR 700,710		418-SR-706
VR 701,702,704,705,707-709,711,712		418-SR-707
VR 703,706		418-SR-708

CAPACITORS

C	738,741	413-SPPW3-235
C	700-703,708-711	413-DCM280-773
C	716-721,726,729,730	413-DCM280-773
C	704-707,712-715,722-725	413-DCM280-889
C	727,731,733,734,739,740	413-DCM280-889
C	728,737	413-CDVD2001-265
C	732	413-DV300-5155

E CROSS FADER PCB ASSY

MISCELLANEOUS

	CN C01	3P SOCKET	404-KMD3500-609A
		PC SHEET (PC 1.5T)	501-EN2000-2469

RESISTORS

VR 715		418-DJM250-674

F PANEL-L PCB ASSY

SEMICONDUCTORS

	Q	506,507	416-CTB200-166
	Q	500-505	416-MC6000-374
	D	520-527	410-S1-421
	D	530	410-S1-422
	D	550	410-SR-437
	D	548,549	410-HDJ2000-162T
	D	502,503	417-HDJ2000-411
	D	554-579	414-CD1000-075A
	D	500,501	414-RMP3-285
	D	512-519	410-CDI600-357T
	D	504-511,528,529,531-547,551-553,580-583	410-DJ5000-253T

MISCELLANEOUS

	CN 500	10P FFC CONNECTOR	404-CDMIX2-1142
	CN 2B	34P 1.0 FFC SOCKET	404-SR-3805
		1P GROUND WIRE	406-SR-1266
	L 500	INDUCTANCE	415-USOLOPA-342
	D 528,548-550	LED HOLDER	504-RMX30-158
	SW504,509	TACT SW	403-DDJLE-416
	SW500-503,505-508,510-525	TACT SW	403-DDJLE-419

RESISTORS

R 506		412-3113-078
VR 500-503		418-SR-706
P 500	SLIDE VR (20KB*2)	418-SR-705

CAPACITORS

C	500,533	413-CDVD2001-265
C	532	413-SPPW3-235
C	501-507,514,515,529-531,535,536	413-DCM280-773

G PANEL-R PCB ASSY

SEMICONDUCTORS

	Q	506,507	416-CTB200-166
	Q	500-505	416-MC6000-374
	D	520-527	410-S1-421
	D	530	410-S1-422
	D	550	410-SR-437
	D	548,549	410-HDJ2000-162T
	D	502,503	417-HDJ2000-411
	D	554-579	414-CD1000-075A
	D	500,501	414-RMP3-285
	D	512-519	410-CDI600-357T
	D	504-511,528,529,531-547,551-553,580-583	410-DJ5000-253T

MISCELLANEOUS

	CN 500	10P FFC CONNECTOR	404-CDMIX2-1142
	CN 2C	34P 1.0 FFC SOCKET	404-SR-3805
		2P GROUND WIRE	406-SR-1265
	L 500	INDUCTANCE	415-USOLOPA-342
	D 528,548,549,550	LED HOLDER	504-RMX30-158
	SW504,509	TACT SW	403-DDJLE-416
	SW500-503,505-508,510-525	TACT SW	403-DDJLE-419

RESISTORS

R 506		412-3113-078
VR 500-503		418-SR-706
P 500	SLIDE VR (20KB*2)	418-SR-705

CAPACITORS

C	500, 533	413-CDVD2001-265
C	532	413-SPPW3-235
C	501-507,514,515,529-531,535,536	413-DCM280-773