Pioneer DJ

Service Manual

PLX-500-K

TURNTABLE

PLX-500-K
PLX-500-W

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

Model	Type	Power Requirement	Remarks
PLX-500-K, -W	LPWSYXEG	AC 110 V to 120 V or 220 V to 240 V	
PLX-500-K, -W	FWUXEGCB	AC 110 V to 120 V or 220 V to 240 V	

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

Model	Order No.	Remarks
PLX-500-K, -W	RRV4665	SCHEMATIC DIAGRAM, PCB CONNECTION DIAGRAM, PCB PARTS LIST

K-ZZZ SEPT. 2016

SAFETY INFORMATION

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

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

PLX-500-K

CONTENTS

1. SERVICE PRECAUTIONS
1.1 NOTES ON SOLDERING

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

1.2 NOTES ON SERVICING

For final-check playback after repair, a commercially available record is required.
The details, see "3.2 JIGS LIST".

2. SPECIFICATIONS

Power requirements ....AC 110 V to 120 V or 220 V to 240 V, 50 Hz/60 Hz
Power consumption ....11 W
Main unit weight.. 10.7 kg (23.6 lb)
External dimensions .... 450 mm (W) × 158.5 mm (H) × 367.5 mm (D)
                                             (17.7 in. (W) × 6.24 in. (H) × 14.5 in. (D))
Tolerable operating temperature .... +5 °C to +35 °C (+41 °F to +95 °F)
Tolerable operating humidity .... 5 % to 85 % (no condensation)

Turntable part
Drive method .... Servo type direct drive
Motor .... 3-phase brushless DC motor
Braking system .... Electronic brake
Rotation speed ....33 1/3 rpm, 45 rpm, 78 rpm
Rotation speed adjustment range..±8 %
Wow and flutter...0.15 % or less WRMS
S/N ratio..50 dB or higher
Turntable .... Aluminum die-casting Diameter: 332 mm
Starting torque.. 1.6 kg·cm or more
Start time .... 1 second or less (at 33 1/3 rpm)

Tone arm part
Arm type ....Universal type S-shape tone arm,
                        gimbal-supported type bearing structure, static balance type
Effective length.. 230.5 mm
Overhang... 16 mm
Tracking error ....Within 3°
Arm height adjustment range .... 6 mm
Stylus pressure variable range.......................... 0 g to 4.0 g (1 scale 0.1 g)
Proper cartridge weight ....9.5 g or less (single cartridge)
Cartridge type ....VM

Output voltage
PHONO ....2.5 mV/1 kHz
LINE...150 mV/1 kHz

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

■ Accessories

- Turntable
  (200-TT100-232C)

- Slip mat
  (-K: 612-PLX500K-095)
  (-W: 612-PLX500W-095)

- Dust cover
  (-K: 705-PLX500-1650)
  (-W: 705-PLX500W-1651)

- Adapter for EP record
  (200-DJ3000-211)

- Balance weight
  (702-PLX500-098)

- Headshell (cartridge included)
  (705-PLX500-1649)

- Shell Weight
  (200-PLX500-268)

- Power Cord
  (LPWSYXEG: 409-DJ2-070A)
  (FWUXEGCB: 409-DJ2-069A)

- USB cable
  (408-SUB-132)

- Audio adapter cable
  (Stereo pin plug (female) to stereo mini plug (male))
  (408-PL50-068)

- Warranty*
  (LPWSYXEG: 501-PLX-2710)
  *The included warranty is for the European region.

- Operating instructions
  (LPWSYXEG: DRH1378)
  (FWUXEGCB: DRH1379)

PLX-500-K

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	Confirm whether the customer complain has been solved.	The customer complain must not be reappeared. Audio and operations must be normal.
2	Check whether the unit can be turned ON or OFF.	The indicators on the unit must light when the unit is turned ON.
3	Check playback operations.	The turntable must turn or stop properly when the START/STOP button is pressed. The tone arm must move properly when the lifter lever is moved up or down.
4	Check the pitch adjustment.	Check whether the pitch can be adjusted, using the TEMPO slider.
5	Check the LINE OUT/PHONO OUT signals.	Play a record back and check that the audio output from the LINE OUT/PHONO OUT terminals is normal. (For checking, use a powered speaker, pre-main amplifier or a DJ mixer.)
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
LP record or EP record	(Marketed product)	For checking playback operations and the audio output.
Spacer	Dust cover (GGP1257)	Registered the Dust cover (705-PLX500-1650) as a jig for services. You have to procure four pieces of cushion to be placed at the four corners of the dust cover where the turntable is to contact on your own, in order to prevent the top panel of this unit from being damaged.
	or Four cylindrical wood offcuts, etc., of 40 mm dia. × 80 mm in length or longer	To be placed at the four corners of the unit when diagnoses are to be performed with the unit upside down
USB cable	GGP1193	For checking the audio output.

■ Lubricants and Glues List

Name	Part No.	Remarks
Adhesive	GYL1007	Refer to "7. DISASSEMBLY".
Grease	GYA1004	Refer to "9.2 EXTERIOR SECTION".

3.3 PCB LOCATIONS

A

Bottom View
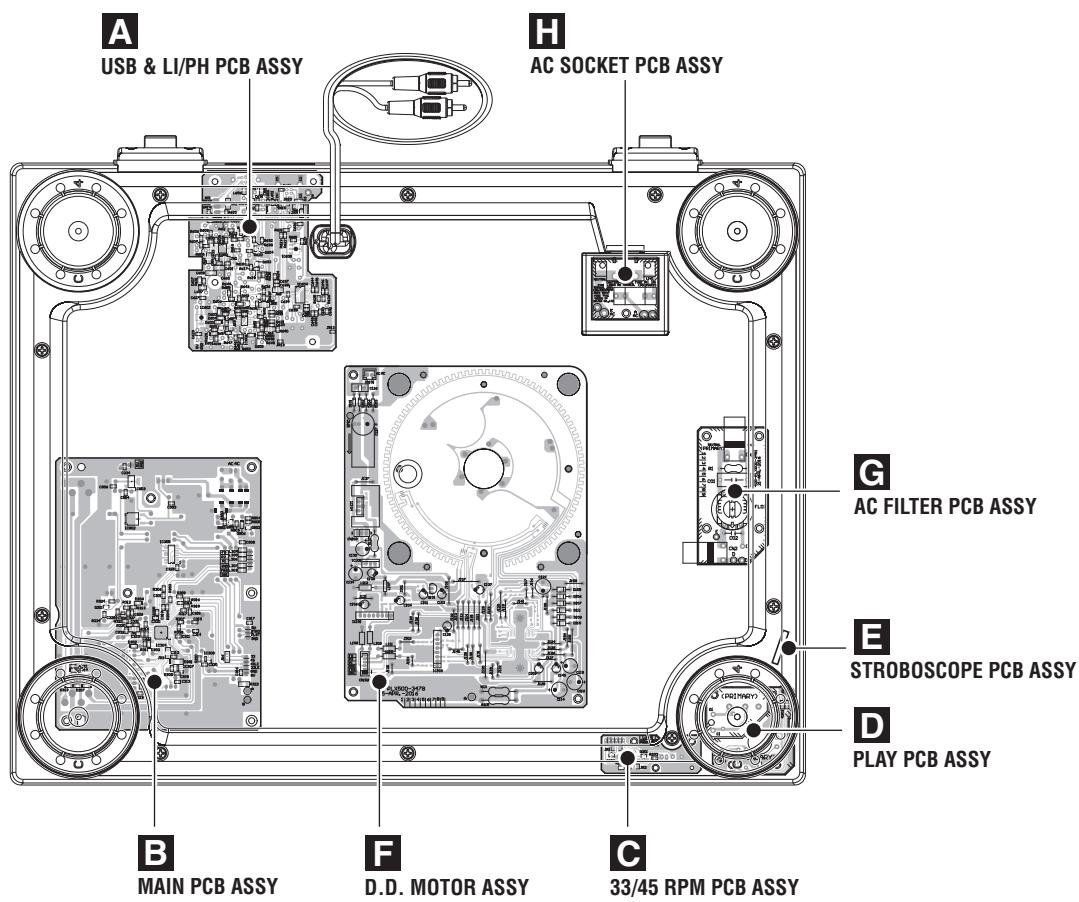
A USB & LI/PH PCB ASSY   **H** AC SOCKET PCB ASSY

G AC FILTER PCB ASSY

E STROBOSCOPE PCB ASSY

D PLAY PCB ASSY

**B** MAIN PCB ASSY   **F** D.D. MOTOR ASSY   **C** 33/45 RPM PCB ASSY

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

Mark	No.	Description	Part No.
		LIST OF ASSEMBLIES	
		1..MAIN PCB ASSY	704-PLX500-B516
		1..USB & LI/PH PCB ASSY	704-PLX500-B518
		1..33/45 RPM PCB ASSY	704-PLX500-B520
NSP		1..AC FILTER & PLAY PCB ASSY	704-PLX500-B523
⚠		2..AC FILTER PCB ASSY	704-PLX500-B521
⚠		2..PLAY PCB ASSY	704-PLX500-B522
⚠		1..AC SOCKET PCB ASSY	704-PLX500-B524
		1..D.D. MOTOR PACKING ASSY	705-PLX500-1652
NSP		2..D.D. MOTOR ASSY	704-PLX500-B525
		1..STROBESCOPE PCB ASSY	704-PLX500-B526

4. BLOCK DIAGRAM

H AC SOCKET PCB ASSY
(704-PLX500-B524)

G AC FILTER PCB ASSY
(704-PLX500-B521)

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

AC
LIVE
NEUTRAL

A
K

CN1
1
2

C
D
E

POWER
SELECT
SW

C1
D1

SW201

T1
TRANS

E STROBOSCOPE
PCB ASSY
(704-PLX500-B526)

CARTRIDGE

CN201
STRO
LED2
LED1
1
2
3

D PLAY PCB ASSY
(704-PLX500-B522)

W202
1 2 3 4

CN302
GND
PL/ST
STRO
8V
1 2 3 4

PLX-500-K

CN602
1 R
2 GND
3 L

RCA OUT

CN901
AC
AC
1
2

CN101
AC
AC
1
2

USB OUT

JK601

A USB & LI/PH PCB ASSY
(704-PLX500-B518)

CN601
5V
GND
1
2

W301
1
2

CN304
P3.3V
SWD_DIO
GND
SWD_CLK
/RST
1 2 3 4 5

CN303 W102
1 1 DRI
2 2 FRS
3 3 GND
4 4 P1
5 5 P2
6 6 FG

F D.D. MOTOR ASSY
(704-PLX500-B525)

MOTOR

PHONO/
LINE

SW601

CN305
/RESI
REQ
MISO
MOSI
SCK
PCS
3.3V
GND
UPDA
1 2 3 4 5 6 7 8 9

W201
5V
GND
33LED
45LED
45
33
1
2
3
4
5
6

CN301
1
2
3
4
5
6

C 33/45 RPM PCB ASSY
(704-PLX500-B520)

B MAIN PCB ASSY
(704-PLX500-B516)

GND
8V

SEARCHLIGHT ASSY
(704-PLX500-B528)

PLX-500-K

H AC SOCKET PCB ASSY

G AC FILTER PCB ASSY

A USB & LI/PH PCB ASSY

AC IN

CN1

FILTER FL01

TRANSFORMER

CN901

IC901 NJM78M08
IC902 LP38690-5V
IC903 LD1117AL-3.3V

8V
5V
3.3V

CN101

IC104 NJM317
IC105 NJM78M05

18V
5V

3.3V
IC602 LD1117
5V

CN601

W301
5V

CN602

RCA OUT

CARTRIDGE

RIAA AMP
IC603 DRV602 (1/2)

RIAA AMP
IC603 DRV602 (2/2)

SW601

R
L

LG
RG

LRGND

JK601

USB

IC604 PCM2900C

RESET IC
IC307 BD4730

OSC
X301
9.6 MHz

MCU
IC304
MKL05Z32VLF4

LEVEL SHIFTER
IC305
74HC4050

LEVEL SHIFTER
IC306
SN74LVC1G17

CN302

CN303

W102

DRI
FRS
GND
P1
P2
FG

MOTOR DRIVE
IC102
BA6868FM

COIL

FF, REV
IC103
BA10358

HALL IC
HE101,102,HE103
HW300BE

FG AMP
IC101
BA10358
Q101
2SC1740

FG

F D.D. MOTOR ASSY

B MAIN PCB ASSY

CN301

W201

Function Selection
STOP/33/45 SW

SW203   SW204

45   33

C 33/45 RPM PCB ASSY

CN201

E STROBOSCOPE PCB ASSY

C1 D1

W202

PL/ST
SW202

AC ON /OFF
SW201

D PLAY PCB ASSY

5. DIAGNOSIS
## 5.1 TROUBLESHOOTING

A

[1] Abnormality regarding startup

The unit is not turned ON.

Is the power selector switch set properly? — No → Set properly.
↓ Yes

Is the Power cord securely plugged in? — No → Securely plug in the Power cord.
↓ Yes

Is the fuse (FU01) on the AC SOCKET PCB Assy intact (not blown)? — No → The circuitry may have been shorted out. Replace the AC SOCKET PCB Assy.
↓ Yes

Does the POWER switch (SW201) work? — No → Replace the POWER switch.
↓ Yes

Are CN901, CN301 and CN302 on the MAIN PCB Assy securely connected? — No → Securely connect them.
↓ Yes

Is CN201 on the PLAY PCB Assy securely connected? — No → Securely connect them.
↓ Yes

Is R906 on the MAIN PCB Assy stayed open? — No → The circuitry may have been shorted out. Replace the MAIN PCB Assy then the D.D. MOTOR Assy, in that order.
↓ Yes

Some part may be in failure. Replace the AC SOCKET PCB Assy, AC FILTER Assy, transformer, then the MAIN PCB Assy, in that order.

The platter does not rotate, even though the unit is turned ON.

Is there any foreign matter between the platter and motor? — No → Remove any foreign matter.
↓ Yes

Is CN101 on the D.D. MOTOR Assy securely connected? — No → Securely connect them.
↓ Yes

Is the fuse (FU101) on the D.D MOTOR PCB Assy intact (not blown)? — No → The circuitry may have been shorted out. Replace the D.D MOTOR Assy.
↓ Yes

Does the PL/ST switch (SW202) work? — No → Replace the switch.
↓ Yes

The motor, the control system or the transformer may be in failure. Replace the D.D. MOTOR Assy, MAIN PCB Assy, then the transformer in that order.

The specified rotation speed cannot be changed.

Is there any foreign matter between the platter and motor? — No → Remove any foreign matter.
↓ Yes

Do the tact switches (SW203, SW204) work? — No → Replace the faulty switches.
↓ Yes

Do the strobe patterns change after the 33/45 RPM button is pressed? — No → The command is not input to the CPU. Replace the MAIN PCB Assy then the 33/45 RPM PCB Assy, in that order.
↓ Yes

Does the 33/45 RPM button LED light or go dark when the corresponding button is pressed? — No → The LED is in failure. Replace the LED (D203, D204) or 33/45 RPM PCB Assy.
↓ Yes

The motor may be in failure. Replace the D.D. MOTOR Assy.

[2] Abnormality regarding the operating elements and LEDs

The pitch does not change even if the TEMPO slider knob is moved.

Is there any foreign matter between the platter and motor? — **No** → Remove any foreign matter.

↓ **Yes**

Does VR301 work* properly? — **No** → Replace the VR301.

↓ **Yes**

*Check method with the aid of a tester
When the VR is turned toward TEMPO +, the resistance both ends of D313 must become closer to 0 ohm.
The resistance both ends of D307 must be approximately 900 ohms.
When the VR is turned toward TEMPO –, the resistance both ends of D313 must be approximately 900 ohms.
The resistance both ends of D307 must become closer to 0 ohm.

The VR data may not be input to the CPU or the motor may be uncontrollable.
Replace the MAIN PCB Assy then the D.D. MOTOR Assy, in that order.

Strobe Lock is not available.

Are the strobe LEDs lit? — **No** → Replace the D308 to 311.
If the LEDs are not lit all, replace the MAIN PCB Assy, PLAY PCB Assy then the STROBESCOPE PCB Assy, in that order.

↓ **Yes**

Is the TEMPO slider set to center? — **No** → Adjust the TEMPO slider to center.

↓ **Yes**

Is the TEMPO slider LED lit? — **No** → Replace the LED (D312).

↓ **Yes**

① The VR data may not be input to the CPU. Check if VR301 has any problem, referring to "The pitch does not change even if the TEMPO slider knob is moved."
② The rotation speed may not be controlled properly. Replace the MAIN PCB Assy.
③ The motor may be in failure. Replace the D.D. MOTOR Assy.

[3] Abnormality regarding audio

**PHONO is not output./
PHONO output is loud.**

Is the LINE/PHONO swtch set to PHONO? — **No** → Set to PHONO position.

↓ **Yes**

Is the headshell attached tightly? — **No** → Attach tightly.

↓ **Yes**

Are there solder bridges or disconnection in the USB & LI/PH PCB Assy? — **No** → Repair any solder bridge or resolder any unsoldered part. If there is any pattern disconnection, replace the USB & LI/PH PCB Assy.

↓ **Yes**

Does LINE/PHONO switch (SW601) work? — **No** → Replace the LINE/PHONO switch (SW601).

↓ **Yes**

Is CN602 on the USB & LI/PH PCB Assy securely connected? — **No** → Securely connect them.

↓ **Yes**

The internal wiring is disconnected.
Replace the Tone Arm Assy.

LINE is not output.

Does PHONO output properly? — **No** → Refer to "PHONO is not output./ PHONO output is loud.", and confirm that the normal PHONO output is obtained.

↓ **Yes**

Is the LINE/PHONO switch set to LINE? — **No** → Set to LINE position.

↓ **Yes**

Is CN601 on the USB & LI/PH PCB Assy securely connected? — **No** → Securely connect them.

↓ **Yes**

The circuit is abnormal.
Replace the USB & LI/PH PCB Assy then the MAIN PCB Assy, in that order.

USB is not output.

Does PHONO output properly? — **No** → Refer to "PHONO is not output./ PHONO output is loud.", and confirm that the normal PHONO output is obtained.

↓ **Yes**

Is CN601 on the USB & LI/PH PCB Assy securely connected? — **No** → Securely connect them.

↓ **Yes**

The circuit is abnormal.
Replace the USB & LI/PH PCB Assy then the MAIN PCB Assy, in that order.

Waveforms

PHONO output during playback at 1 kHz, 0 dB.

① **CH1: L ch OUTPUT (CN602 pin3)**
V: 10 mV/div. H: 1 mS/div.
② **CH2: R ch OUTPUT (CN602 pin1)**
V: 10 mV/div. H: 1 mS/div.

PLX-500-K

11
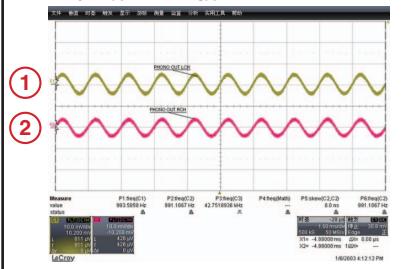
5.2 AUDIO OUTPUT CHECK USING rekordbox

Confirm that the sound of the analog record played back by this unit is output properly from the USB terminal to the computer in this item.

[Installation of rekordbox]

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

Minimum operating environment

Supported operating systems	CPU and required memory
Mac OS X: 10.11/10.10/10.9 (latest update)	Intel® processor Core™ i3/i5/i7, Intel® processor Core™ 2 Duo
	4 GB or more of RAM
Windows: 32-bit version or 64-bit version of Windows 10/Windows 8.1/Windows 7 (latest service pack)	Intel® processor Core™ i3/i5/i7, Intel® processor Core™ 2 Duo
	4 GB or more of RAM

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

• For information on the latest system requirements, compatibility, and supported operating systems of rekordbox, see [**System Requirements**] on the rekordbox.
com site below.
http://rekordbox.com/
• Operating System support assumes you are using the latest point release for that version.

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

• Be sure to use rekordbox Version 4.2.1 or later, because the prior versions of rekordbox do not support the PLX-500.

[Connections]

Computer

Rear panel

USB cable (included) ①

Power cord (included) ③   To power outlet
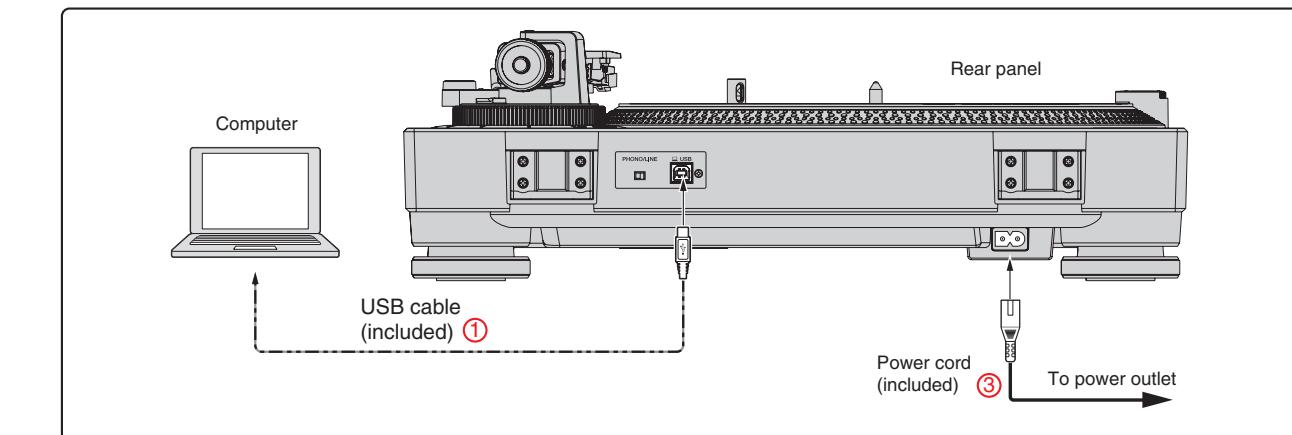
[Operating procedures]

① Connect this unit to your computer via a USB cable.
② Turn on the computer's power.
③ Connect the power cord.
④ Switch the [POWER] switch on this unit's top panel to the [ON] side to turn this unit's power on.

Run the operation check with rekordbox.

Starting the rekordbox.

① Set REC of the upper panel to active, and display the recording panel window.
② Confirm that the recording source display is "USB REC".

When the recording source display is not "USB REC",
- Display the AUDIO tab of the configuration screen.
- Select "REC INPUT" from the pull-down of AUDIO.
- Close the configuration.

③ Comfirm that the recording adjust knob is set to center.
④ Place a record on the turntable of this unit. After laying down the stylus, press [START/STOP] button and play back the music.
⑤ Confirm that the recording level indicator flahes near the center position.

End the sysytem.

1 End the rekordbox.
2 Change the POWER switch on the top panel of this unit to [OFF] side, and turn off the power of this unit.
3 Unplug the USB cable from the computer.

6. SERVICE MODE

There is no information to be shown in this chapter.

7. DISASSEMBLY

A

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.

Notes on performing diagnosis with the unit turned upside down (on how to secure the tone arm, etc.):

Be sure to secure the tone arm with the hook for the tone arm before turning the unit upside down.
Remove the items that can fall, such as the turntable and turntable sheet, from the unit beforehand.
Be sure to use the spacers or a dust cover (GGP1257) dedicated for repair use (NOT the customer's own dust cover) before turning the unit upside down.

B
Disassembly for each Assemblies

[1] Exterior Section

(1) Remove the SPEED PUSH button.
(2) Remove the 4 screws (602-RP5000-412).
*Except when removing the D.D. Motor Assy,
 do not remove the 4 screws.
(3) Turn the unit upside down.

Note:

C
Before turning the unit upside down, be sure to place the spacers or dust cover so that no load is applied to the tone arm, etc.
As the dust cover is not so strong, be careful not to apply a heavy load.

Put a 4 cushion on the contact part of 4 corners of the Dust cover to prevent you from injuring Top panel.

D

Dust cover   Cushion

② SPEED PUSH button

① SPEED PUSH button
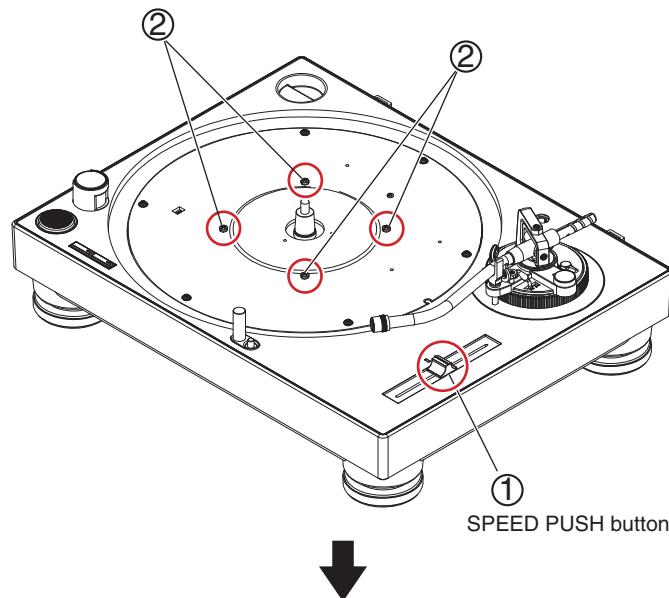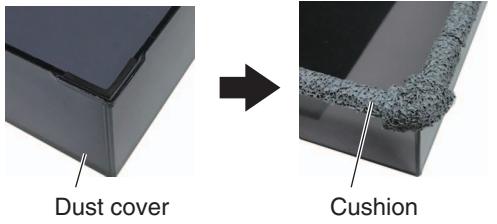
E

F

(4) Remove the 10 screws (602-HPTB310-797).

Note:
Be careful not to touch sheet metal
(The burr of the outer periphery) that attached to
the bottom case.

④ x 10

• Bottom view

A USB & LI/PH
PCB ASSY

H AC SOCKET
PCB ASSY

G AC FILTER
PCB ASSY

E STROBOSCOPE
PCB ASSY

D PLAY PCB ASSY

C 33/45 RPM
PCB ASSY

SEARCHLIGHT ASSY

B MAIN PCB ASSY
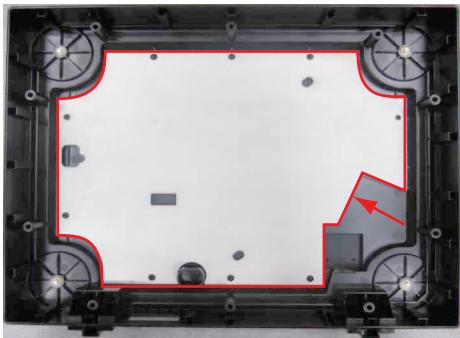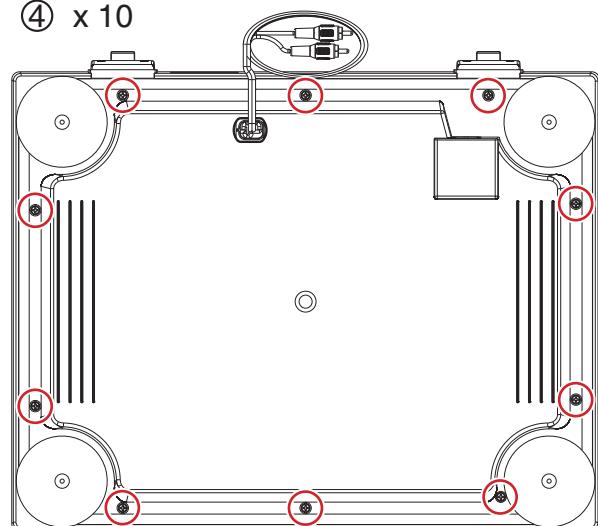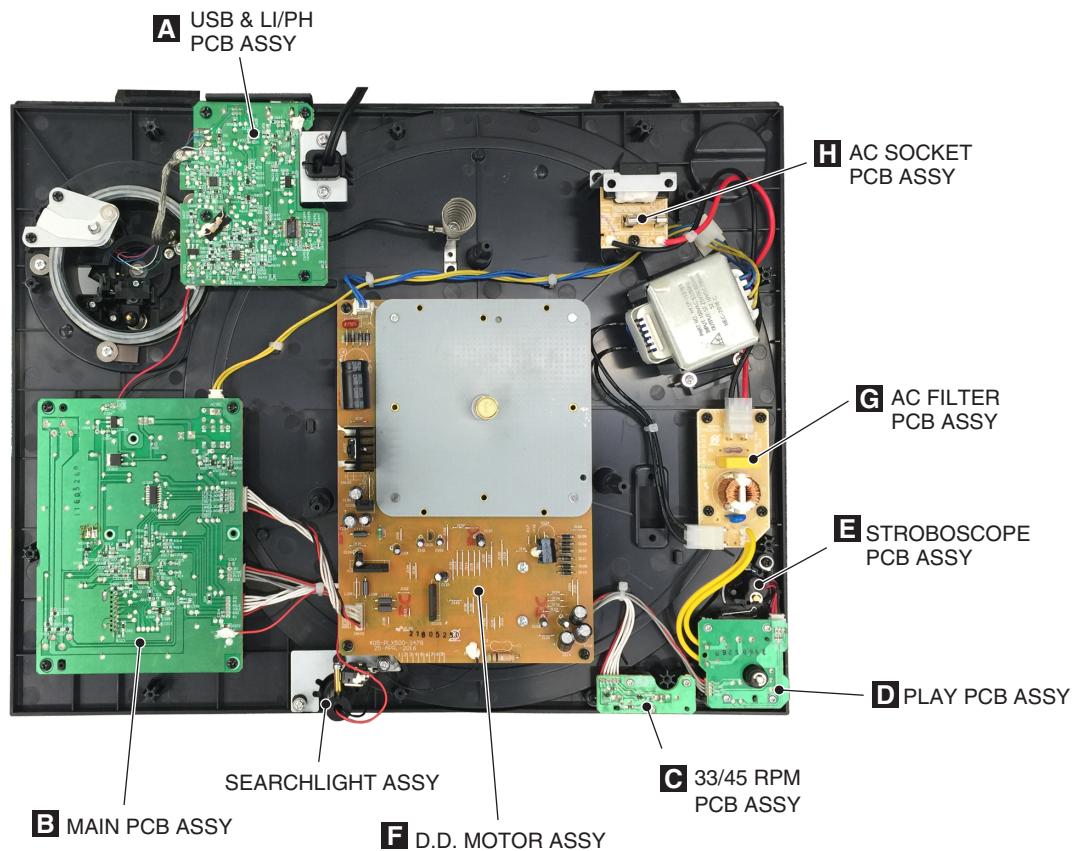
F D.D. MOTOR ASSY

[1-1] D.D. MOTOR Assy

(1) Disconnect the connector (CN101).
(2) Disconnect the connector (CN303) on the MAIN Assy.
(3) Disconnect the cable (black) of the SEARCHLIGHT Assy.
(4) Remove the 3 screws (602-DJ5500-452), and then remove the D.D. MOTOR Assy.

Note:
When the removal of the adhesive, apply the adhesive at the time of assembly. (GYL1007)

D.D. MOTOR Assy

Note:
Do not remove the two screws.

④ ① CN101

② CN303

D.D. MOTOR ASSY

B MAIN PCB ASSY

④ ③ cable (black) ④
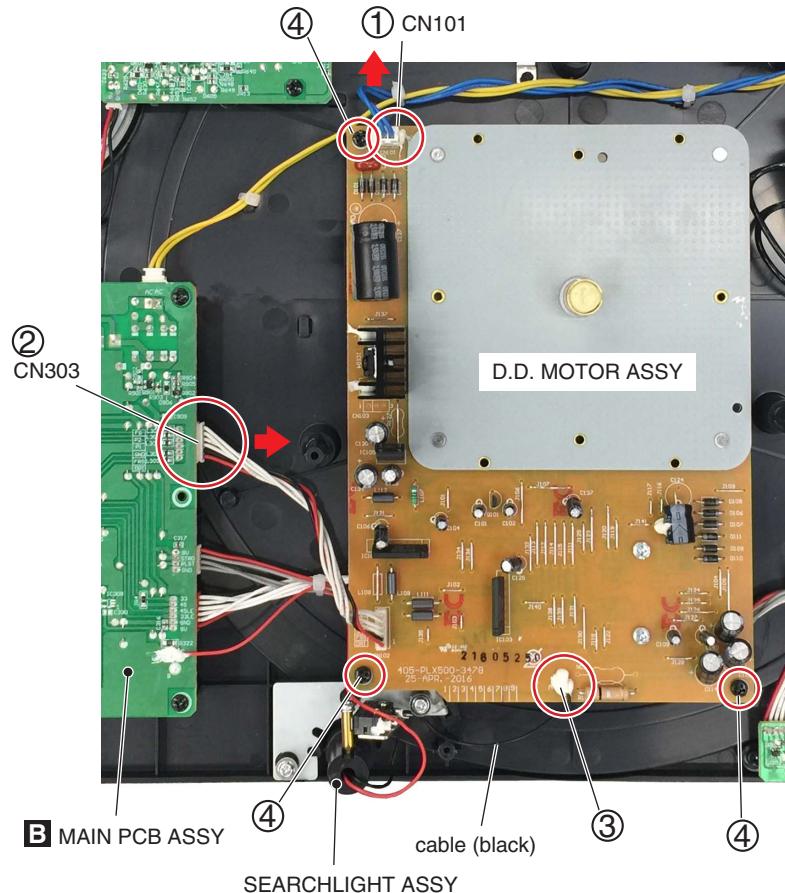
SEARCHLIGHT ASSY

[1-2] MAIN Assy

(1) Disconnect the cable (red) of the SEARCHLIGHT Assy.
(2) Disconnect the connector (CN601) on the USB & LI/PH PCB ASSY.
(3) Disconnect the connectors (CN301, CN302, CN303 and CN901).
(4) Remove the 4 screws (602-DJ5500-452), and then remove the MAIN Assy.

Note:
When the removal of the adhesive, apply the adhesive at the time of assembly. (GYL1007)

② CN601

A USB & LI/PH PCB ASSY

④ ④

CN303 ▶
③
CN302 ▶
CN301 ▶

cable (red)

④ ① ④
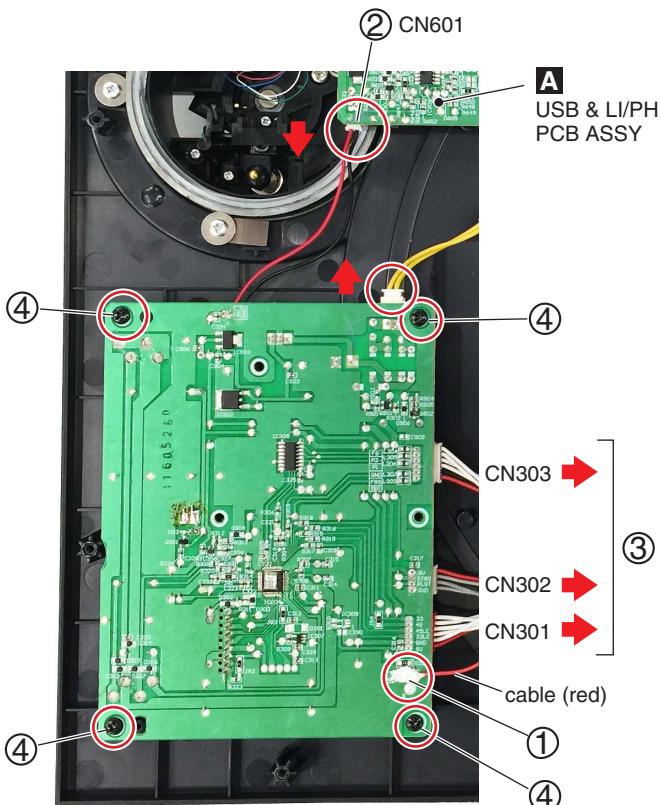
[1-3] AC FILTER, PLAY, 33/45 RPM PCB Assy

(1) Cut the 2 cable ties.

G
AC FILTER
PCB ASSY

①

C
33/45 RPM
PCB ASSY

D
PLAY PCB ASSY

④ CN1
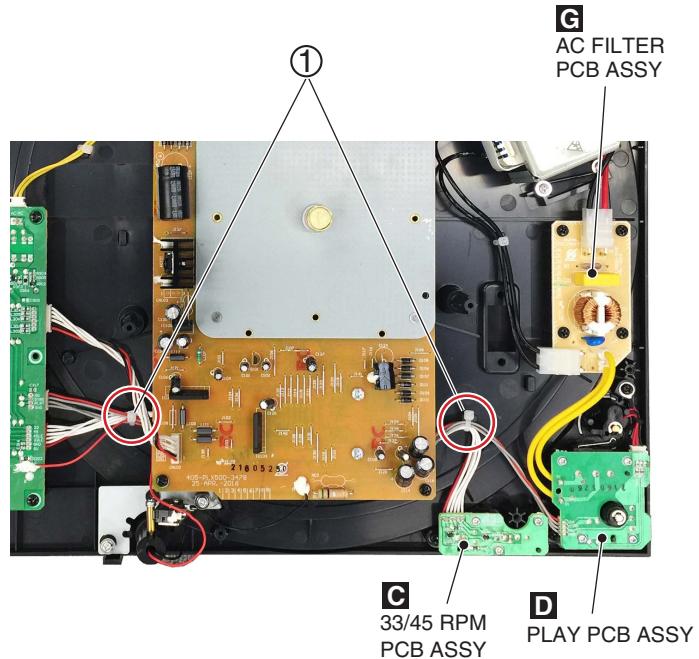
(2) Disconnect the connector (CN201) on the PLAY
PCB Assy.
(3) Remove the 7 screws (602-SL24F-099), and then
remove the PLAY PCB Assy and 33/45 RPM
PCB Assy.
(4) Disconnect the connector (CN1) on the AC
FILTER PCB Assy.
(5) Disconnect the 2 cables (black) of the AC
FILTER PCB Assy.
(6) Remove the 4 screws (602-DJ5500-452), and
then remove the AC FILTER PCB Assy.

⑥ x 4

G
AC FILTER
PCB ASSY

⑤

② CN201

D
PLAY PCB ASSY

C
33/45 RPM
PCB ASSY

③ x 7
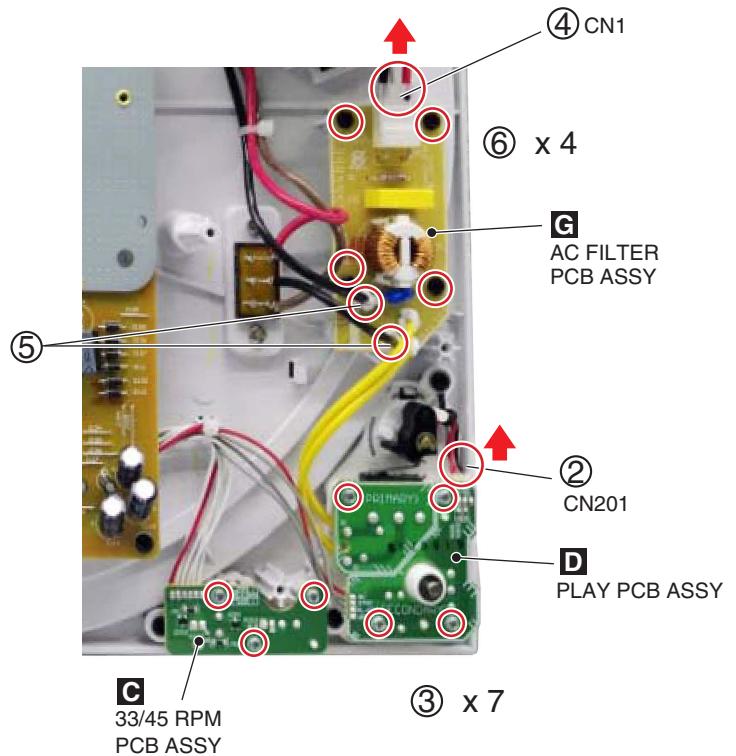
[1-4] USB & LI/PH Assy

(1) Disconnect the connector (CN601) on the PLAY PCB Assy.

(2) Remove the screw (602-B600-057), and then remove SPRING FOR BOTTOM BASE and wire.

(3) Remove the 2 screws (602-B600-058), and then remove the SIGNAL WIRE Assy.

A USB & LI/PH PCB ASSY

SIGNAL WIRE Assy

SPRING FOR BOTTOM BASE

③ ② ①

CN601
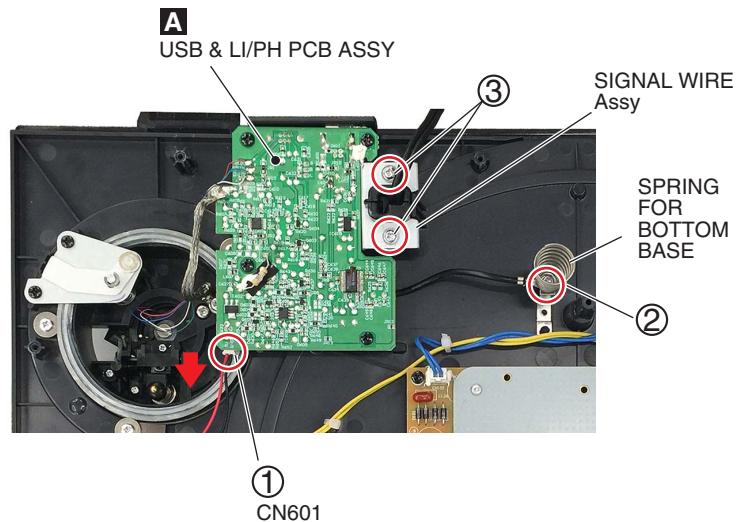
(4) Remove 4 places of solders.

Note:
Be sure to swiftly remove solder, paying attention not to let the removed solder fall onto the wires for the tone arm.

(5) Remove the 4 screws (602-DJ5500-452).

(6) Remove the screw (602-ISOF2005-686B).

④ ⑥

⑤ x 4
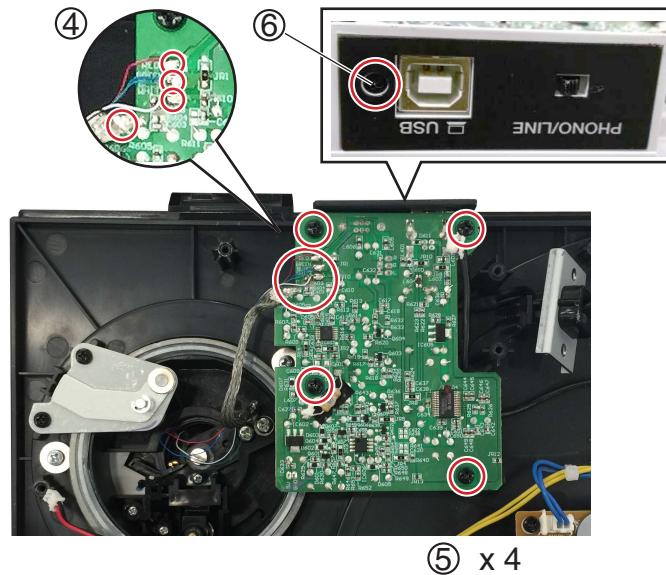
(7) Disconnect the connector (CN602), and then remove the USB & LI/PH PCB Assy.

⑦ CN602

A USB & LI/PH PCB ASSY Side A
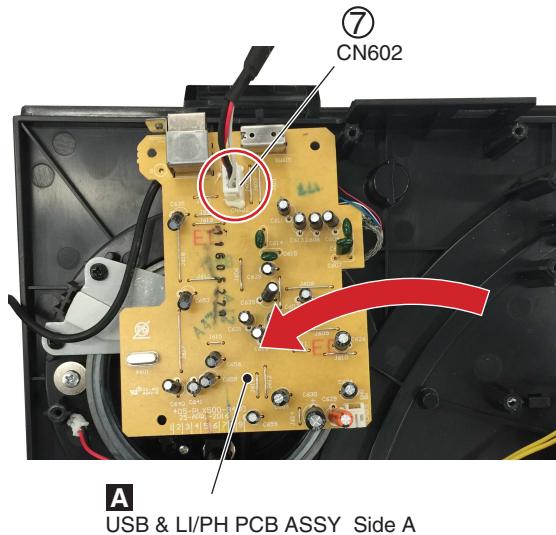
[1-5] Power Transformer

(1) Cut the 4 cable ties.
(2) Disconnect the connector (CN101) on the D.D. MOTOR Assy.
(3) Disconnect the connector (CN901) on the MAIN PCB Assy.
(4) Disconnect the 2 wires (red, brown) of the POWER SELECT SW.
Disconnect the wire (black) of the AC FILTER PCB Assy.

③ CN901

① ①

D.D. MOTOR ASSY

WIRE (BROWN)
WIRE (RED)
WIRE (BLACK)

B MAIN PCB ASSY

② CN101

④

POWER SELECT SW

④

G AC FILTER PCB ASSY
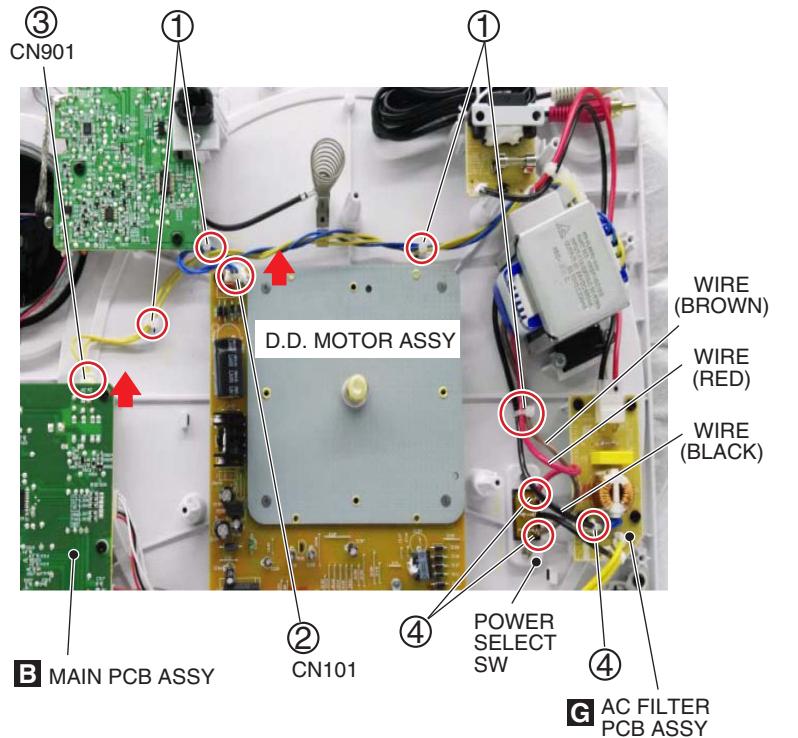
(5) Remove the 2 screws (602-M400-055), and then remove the TRANSFORMER LEAF SPRING.
Remove the POWER TRANSFORMER.

Power Transformer

⑤ x 2

TRANSFORMER LEAF SPRING
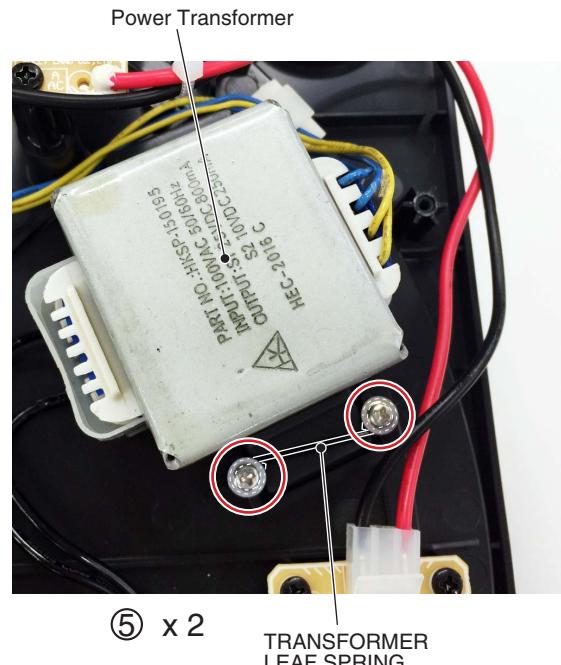
8. EACH SETTING AND ADJUSTMENT

There is no information to be shown in this chapter.

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

APPENDAGE
LABEL

CAUTION
LABEL

MODEL
NAME
LABEL

Refer to
"9.2 EXTERIOR SECTION".

BAR CODE

BAR CODE
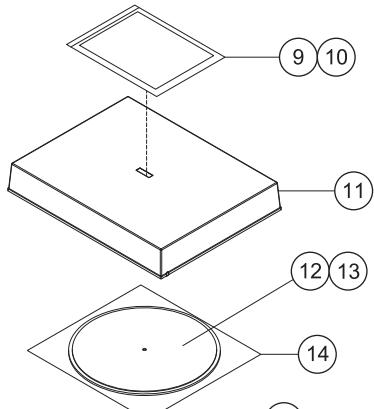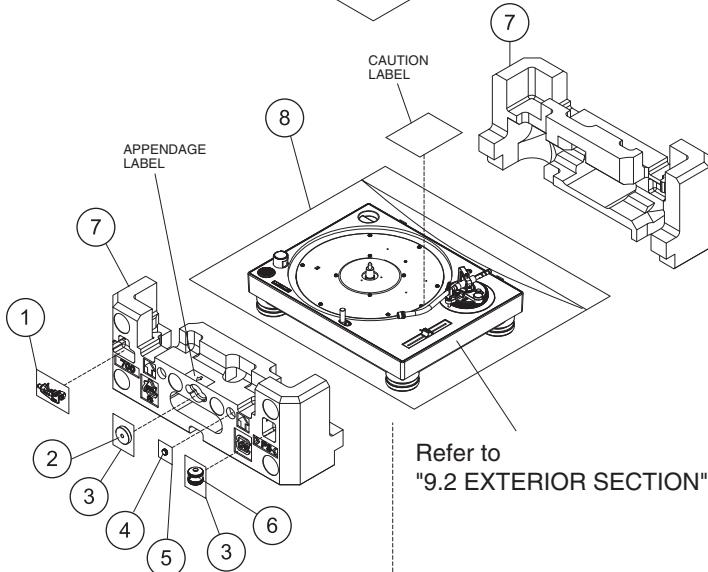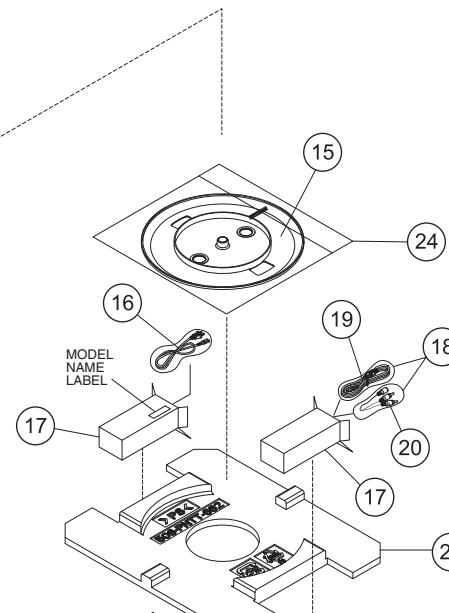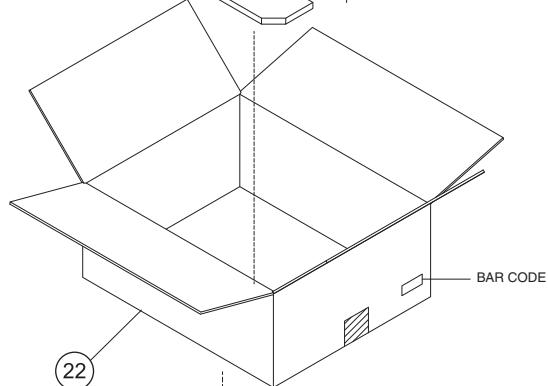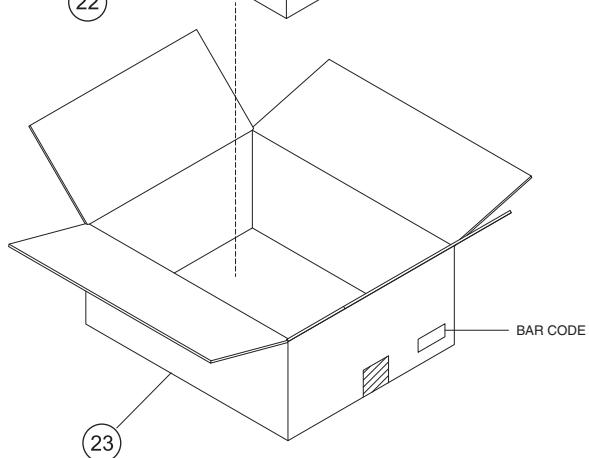
(1) PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	HEADSHEEL & CARTRIDGE ASS' Y	705-PLX500-1649
	2	45 RPM ADAPTOR (AL)	200-DJ3000-211
	3	POLYBAG (60 * 102 MM) (PB,CD)	505-B300-007
	4	SCREW	200-ST100-268
	5	POLYBAG (PE, 35 * 50 MM)	505-S15-117
	6	COUNTER WEIGHT ADJUSTOR ASS'Y	702-PLX500-098
	7	POLYFOAM	506-PLX500-700
	8	SOFT BAG	509-PNTT-332
	9	I/B	See Contrast table (2)
	10	WARRANTY CARD	See Contrast table (2)
	11	DUST COVER & HINGE ASS'Y	See Contrast table (2)
	12	SLIPMAT	See Contrast table (2)

Mark	No.	Description	Part No.
	13	SPACER	507-PNTT-3467
	14	POLYBAG FOR SLIPMAT (310 * 400 MM)	505-DJ2500H-092
	15	ALUMINIUM PLATTER (15 MM)	200-TT100-232C
⚠	16	AC POWER CORD	See Contrast table (2)
	17	BOX (180 * 70 * 50 MM)	507-PLX500-3600
	18	PLASTIC BAG (120 * 250 MM)	505-B605-017
	19	USB CABLE (L=1500 MM)	408-SUB-132
	20	SIGNAL WIRE	408-PL50-068
	21	POLYFOAM	506-PNTT-662A
	22	GIFT BOX	See Contrast table (2)
	23	CARTON	See Contrast table (2)
	24	POLYBAG FOR TURNTABLE	505-LP5-001

(2) CONTRAST TABLE

PLX-500-K/LPWSYXEG, PLX-500-W/LPWSYXEG, PLX-500-K/FWUXEGCB and PLX-500-W/FWUXEGCB are constructed the same except for the following:

Mark	No.	Symbol and Description	PLX-500-K/LPWSYXEG	PLX-500-W/LPWSYXEG
	9	I/B LPWSYXEG	502-PLX500B-3626B	502-PLX500B-3626B
	9	I/B FWUXEGCB	Not used	Not used
	10	WARRANTY CARD	502-SXMK3B-3549	502-SXMK3B-3549
	11	DUST COVER & HINGE ASS'Y K	705-PLX500-1650	Not used
	11	DUST COVER & HINGE ASS'Y W	Not used	705-PLX500W-1651
	12	SLIPMAT K	612-PLX500K-095	Not used
	12	SLIPMAT W	Not used	612-PLX500W-095
⚠	16	AC POWER CORD VDE L=1900	409-DJ2-070A	409-DJ2-070A
⚠	16	AC CORD UL=1900	Not used	Not used
	22	GIFT BOX KB	507-PLX500KB-3601A	Not used
	22	GIFT BOX WB	Not used	507-PLX500WB-3601A
	22	GIFT BOX KA	Not used	Not used
	22	GIFT BOX WA	Not used	Not used
	23	CARTON KB	507-PLX500KB-3602A	Not used
	23	CARTON WB	Not used	507-PLX500WB-3602A
	23	CARTON KA	Not used	Not used
	23	CARTON WA	Not used	Not used

Mark	No.	Symbol and Description	PLX-500-K/FWUXEGCB	PLX-500-W/FWUXEGCB
	9	I/B LPWSYXEG	Not used	Not used
	9	I/B FWUXEGCB	502-PLX500A-3625A	502-PLX500A-3625A
	10	WARRANTY CARD	Not used	Not used
	11	DUST COVER & HINGE ASS'Y K	705-PLX500-1650	Not used
	11	DUST COVER & HINGE ASS'Y W	Not used	705-PLX500W-1651
	12	SLIPMAT K	612-PLX500K-095	Not used
	12	SLIPMAT W	Not used	612-PLX500W-095
⚠	16	AC POWER CORD VDE L=1900	Not used	Not used
⚠	16	AC CORD UL=1900	409-DJ2-069A	409-DJ2-069A
	22	GIFT BOX KB	Not used	Not used
	22	GIFT BOX WB	Not used	Not used
	22	GIFT BOX KA	507-PLX500KA-3601	Not used
	22	GIFT BOX WA	Not used	507-PLX500WA-3601
	23	CARTON KB	Not used	Not used
	23	CARTON WB	Not used	Not used
	23	CARTON KA	507-PLX500KA-3602	Not used
	23	CARTON WA	Not used	507-PLX500WA-3602

PLX-500-K

9.2 EXTERIOR SECTION

A

SLIPMAT
(Accessory)

ALUMINIUM PLATTER
(Accessory)

DUST COVER & HINGE ASSY (Accessory)

Grease
(GYA1004)

SCREW
(Accessory)

HEADSHEEL &
CARTRIDGE
ASSY
(Accessory)

COUNTER WEIGHT
ADJUSTOR ASSY
(Accessory)
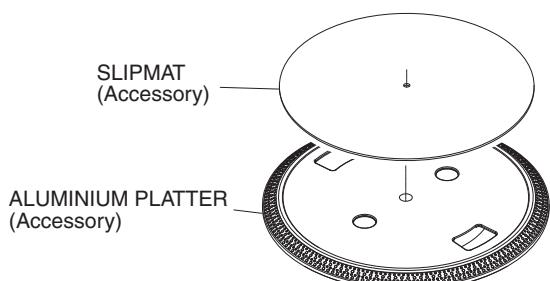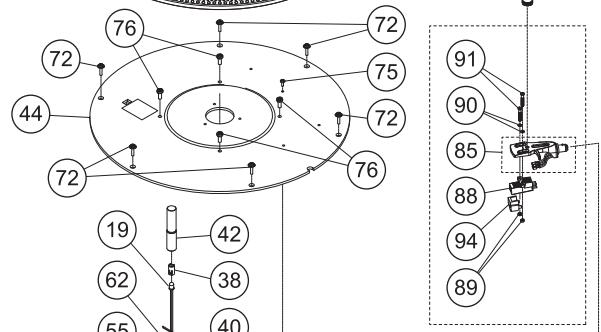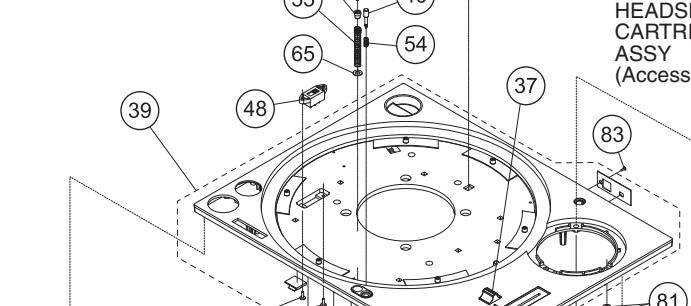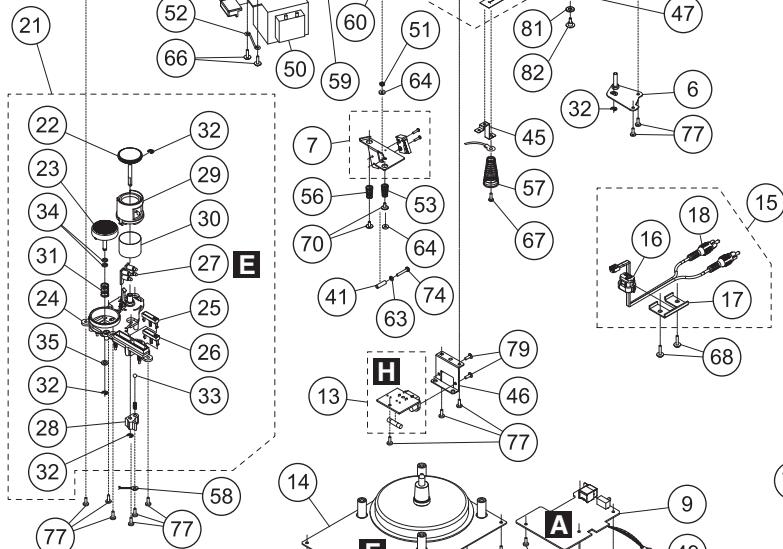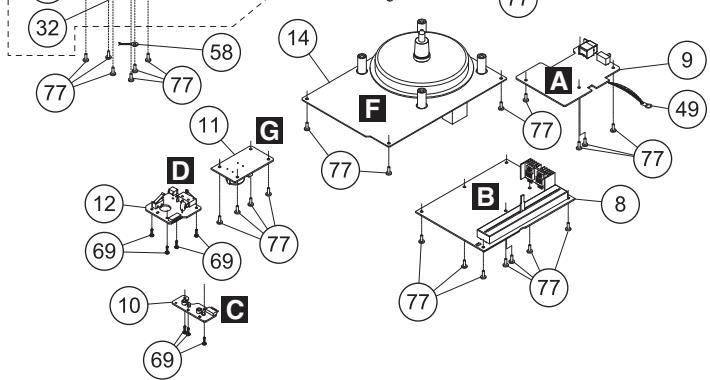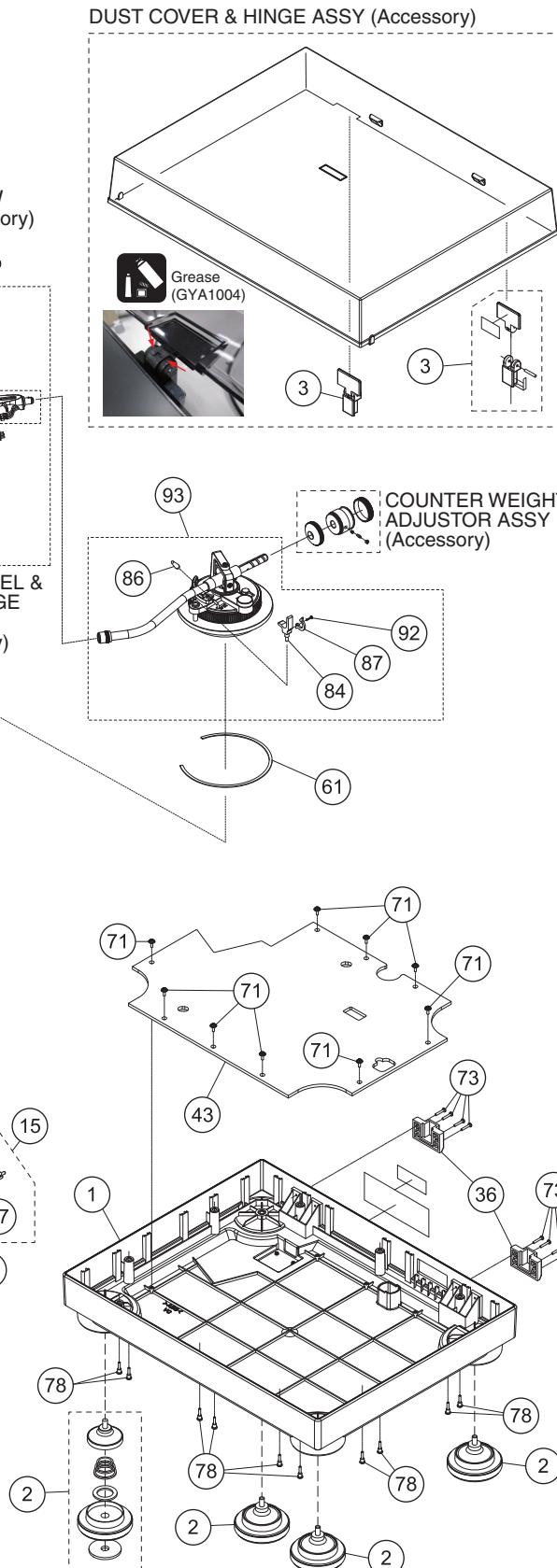
(1) EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	BASE ASS'Y	See Contrast table (2)
	2	FOOT & WASHER ASS'Y	701-PLX500-5673
	3	HINGE ASS'Y	701-PLX500-5704
	4	• • • • •	
	5	• • • • •	
	6	UP/DOWN FIXED ASS'Y	703-DJ3000-279
	7	SWITCH & FIX PLATE ASS' Y	704-BJ2300-1616
	8	MAIN PCB ASS'Y	704-PLX500-B516
	9	USB & LI/PH PCB ASS'Y	704-PLX500-B518
	10	33/45 RPM PCB ASS'Y	704-PLX500-B520
⚠	11	AC FILTER PCB ASS'Y	704-PLX500-B521
⚠	12	PLAY PCB ASS'Y	704-PLX500-B522
	13	AC SOCKET PCB ASS'Y	704-PLX500-B524
	14	D.D. MOTOR PAKING ASS'Y	705-PLX500-1652
	15	SINGALGNAL WIRE ASS' Y	704-PLX500-B527
	16	CORD BUSH	100-HC1421FR-991
	17	FIXED PLATE	300-DJ3000-565
	18	RCA CORD (L=1200 MM)	408-HPR200-092
	19	SEARCHLIGHT ASS'Y	704-PLX500-B528
	20	• • • • •	
	21	STROBOSCOPE ASS'Y	See Contrast table (2)
	22	POWER KNOB AND SHAFT ASS'Y	701-PLX500-1649
	23	STOP/STARTS BUTTON A	701-PNTT-5360
	24	SPOTLIGHT BASE ASS'Y	See Contrast table (2)
	25	33 KNOB AND LENS ASS' Y	See Contrast table (2)
	26	45 KNOB AND LENS ASS' Y	See Contrast table (2)
	27	STROBOSCOPE PCB ASS'Y	704-PLX500-B526
	28	TUNING SHAFT (POWER)	100-DJ2500-1292
	29	SPOTLIGHT HOLDER (SELVER)	100-PLX500-1461A
	30	TRANSPARENT SHEET (PVC, T=0. 3 MM)	501-DJ3000-1149
	31	SPRING	603-PNTT-403
	32	E-RING WASHER 3 MM	606-F200-011-HA
	33	STEEL BALL	607-B600-002
	34	SPACER FOR NOISE ELIMINATION	612-PNTT-508
	35	SPACER FOR NOISE ELIMINATION	612-ST150-150
	36	HINGE SLIDE	100-DJ3000-1350
	37	SPEED PUSH BUTTON	See Contrast table (2)
	38	REFLECTOR	100-PNTT-3103
	39	TOP PANEL PACKING ASS'Y	See Contrast table (2)
	40	SPOT LIGHT BUTTON	See Contrast table (2)
	41	FIXED AXES	200-DJ1900-159A
	42	SPOTLIGHT COVER	See Contrast table (2)
	43	BOTTOM PLATE	300-DJ3000-575B
	44	MOTOR FIXED PLATE	300-PLX500-687B
	45	GROUND PLATE	300-DJFA-1814

Mark	No.	Description	Part No.
	46	FIXED PLATE	300-PLX500-2279
	47	SHIELDING PLATE	300-PLX500-2280
	48	SLIDE SW (L21-22A8, 6P)	403-HS100-042
	49	GROUNDING METAL NET	407-DJ100-135
	50	TRANSFORMER (AC115/230 V)	411-PLX500-989
	51	NUT	601-SL24F-010
	52	TRANSFORMER LEAF SPRING	603-DJ1900-136
	53	SPOT LIGHT SPRING (BLACK)	603-DJ1900-137
	54	LEAF SPRING	603-DJ1900-138
	55	SPOT LIGHT BUTTON SPRING	603-DJ1900-139
	56	SPRING FOR LAMP	603-DJ1900-239
	57	SPRING FOR BOTTOM BASE	603-DJ5500-281
	58	LOCKING CABLE CLIP	300-HM510B-224
	59	CUSHION RUBBER FOR TRANSFORMER	604-PLX500-064
	60	MUTE CUSHION (RUBBER)	604-DJ1900-066A
	61	RUBBER FOR TONEARM BOTTOM BASE	604-PROTT2-178
	62	RUBBER	604-PLX500-686
	63	WASHER (5.5 * 3 * 0.7 MM)	606-B300-039
	64	MUTE CUSHION (EVA BLACK)	612-DJ1900-013
	65	CUSHION	612-BJ1900-062
	66	SCREW (DIA.3 * 10, PTP)	602-M400-055
	67	SCREW (PTP3 * 8)	602-B600-057
	68	SCREW	602-B600-058
	69	SCREW	602-SL24F-099
	70	SCREW (3 * 6, TTP)	602-B752-103
	71	SCREW	602-3113-120
	72	SCREW (TTP 3 * 12)	602-DD3250-121
	73	SCREW	602-DJ3000-272
	74	SCREW (3 * 16 P=0.5)	602-BJ1900-299
	75	SCREW	602-STR885-354
	76	SCREW (M4 * 10 * P0.7)	602-RP5000-412
	77	SCREW (TTP, 3 * 8, ZB)	602-DJ5500-452
	78	SCREW	602-HPTB310-797
	79	SCREW	602-PTS308-732B
	80	• • • • •	
	81	WASHER	606-DDJLE-260
	82	SCREW	602-WBTB306-795N
	83	SCREW	602-ISOF2005-686B
	84	TONEARM LIFTER ASS'Y	701-PROTT2-2103
	85	HEADSHELL ASS'Y	703-PLX500-1411
	86	CLUTH LEVER KNOB	100-DJ3000-1313
	87	PICK-UP CRAMPER	100-PROTT2-1632
	88	CARTRIDGE (AT3600LX, CN-6531)	402-PLX500-119
	89	NUT (M2.6 * P0.45 * T1.8)	601-M26P045-031

PLX-500-K

Mark	No.	Description	Part No.
	90	WASHER FOR STYLUS (MYLAR, FAI_4.5 * 2.6 * 0.35T)	606-STYLUS-229A
	91	SCREW (M2.6 * P0.46 * L16)	602-M2616-780
	92	SCREW (TTP DIA2 * 8)	602-DJ3000-269
	93	TONE ARM PACKING ASS'Y	705-PLX500-1653
	94	STYLUS PACKING ASS'Y	705-FU704-1336
	95	SCREW	602-SA12-380-HA

(2) CONTRAST TABLE

PLX-500-K/LPWSYXEG, PLX-500-W/LPWSYXEG, PLX-500-K/FWUXEGCB and PLX-500-W/FWUXEGCB are constructed the same except for the following:

Mark	No.	Symbol and Description	PLX-500-K/LPWSYXEG	PLX-500-W/LPWSYXEG
	1	BASE ASS'Y K	701-PLX500-5669	Not used
	1	BASE ASS'Y W	Not used	701-PLX500W-5669
	21	STROBOSCOPE ASS'Y K	704-PLX500-B534	Not used
	21	STROBOSCOPE ASS'Y W	Not used	704-PLX500W-B535
	24	SPOTLIGHT BASE ASS'Y K	701-PLX500-5668S	Not used
	24	SPOTLIGHT BASE ASS'Y W	Not used	701-PLX500W-5668
	25	33 KNOB AND LENS ASS'Y K	701-PLX500-5714	Not used
	25	33 KNOB AND LENS ASS'Y W	Not used	701-PLX500W-5714
	26	45 KNOB AND LENS ASS'Y K	701-PLX500-5715	Not used
	26	45 KNOB AND LENS ASS'Y W	Not used	701-PLX500W-5715
	37	SPEED PUSH BUTTON K	100-PLX500-2017	Not used
	37	SPEED PUSH BUTTON W	Not used	100-PLX500W-2017
	39	TOP PANEL PACKING ASS'Y K	705-PLX500K-1655	Not used
	39	TOP PANEL PACKING ASS'Y W	Not used	705-PLX500W-1656
	40	SPOT LIGHT BUTTON K	200-BJ30G1-157	Not used
	40	SPOT LIGHT BUTTON W	Not used	200-DJ1900-157
	42	SPOTLIGHT COVER K	200-PLX500-799	Not used
	42	SPOTLIGHT COVER W	Not used	200-PLX500W-799

Mark	No.	Symbol and Description	PLX-500-K/FWUXEGCB	PLX-500-W/FWUXEGCB
	1	BASE ASS'Y K	701-PLX500-5669	Not used
	1	BASE ASS'Y W	Not used	701-PLX500W-5669
	21	STROBOSCOPE ASS'Y K	704-PLX500-B534	Not used
	21	STROBOSCOPE ASS'Y W	Not used	704-PLX500W-B535
	24	SPOTLIGHT BASE ASS'Y K	701-PLX500-5668S	Not used
	24	SPOTLIGHT BASE ASS'Y W	Not used	701-PLX500W-5668
	25	33 KNOB AND LENS ASS'Y K	701-PLX500-5714	Not used
	25	33 KNOB AND LENS ASS'Y W	Not used	701-PLX500W-5714
	26	45 KNOB AND LENS ASS'Y K	701-PLX500-5715	Not used
	26	45 KNOB AND LENS ASS'Y W	Not used	701-PLX500W-5715
	37	SPEED PUSH BUTTON K	100-PLX500-2017	Not used
	37	SPEED PUSH BUTTON W	Not used	100-PLX500W-2017
	39	TOP PANEL PACKING ASS'Y K	705-PLX500K-1655	Not used
	39	TOP PANEL PACKING ASS'Y W	Not used	705-PLX500W-1656
	40	SPOT LIGHT BUTTON K	200-BJ30G1-157	Not used
	40	SPOT LIGHT BUTTON W	Not used	200-DJ1900-157
	42	SPOTLIGHT COVER K	200-PLX500-799	Not used
	42	SPOTLIGHT COVER W	Not used	200-PLX500W-799