

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 DISASSEMBLY

How to remove the case in the monitor area.

Be sure to remove the case from downside. It cannot be removed from the upper side.

Insert the smallest flathead screw driver of the precision screw drivers into under the 4 claws.

When inserting the screw driver into the clearance between the case (sheet metal) and the grille, put it 45 degrees diagonally under the case to prevent it from touching the grille, then they will be easily loosened.

Cautions

- Be careful not to confuse screws.
- Before disassembling, make sure to remove the HDD Assembly exclusive for Service.
- The HDD Assembly (CXX2121 and CXX2122) exclusive for Service is a precision apparatus. So, handle it carefully and avoid shock and static electricity.

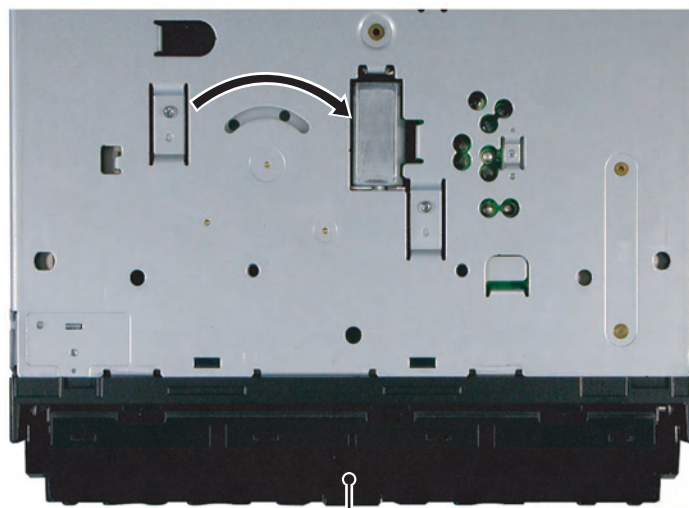
● Preparation for Removing the Monitor Assy

To remove the Monitor Assy block, it must always be moved to the OPEN position.

1. Rotate the gear using a screwdriver, etc. ($\phi 2.8$ or smaller) from the slit on the bottom surface of the main unit (Fig.1) in the direction of the arrow, and move the Monitor Assy to OPEN position.

Note)

Though the gear is heavy, please turn carefully not to inflict too much force. Turning with excessive force may cause damage in the rack or gear in the driving section.



Monitor Assy

Fig.1

● Removing the Monitor Assy

- 1** Remove the two screws. (Fig.2)

Monitor Assy

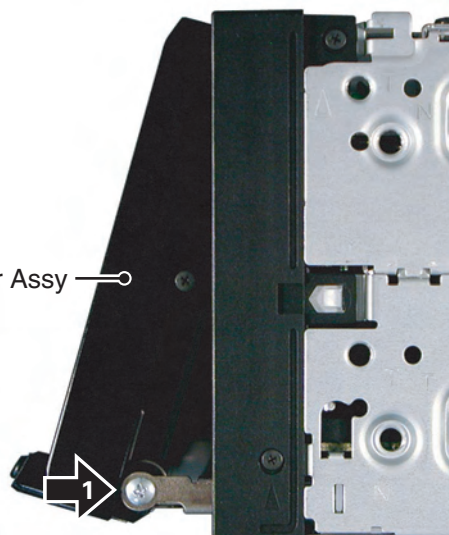


Fig.2

- (2) Remove the screw to remove the Cover.
Do not pull the connecting flexible cable. (Fig.3)
- (3) Remove the flexible cable from the connector to remove the Monitor Assy. Push the lid of the connector up with the top of precision screwdriver (minus), and then remove the flexible cable. Take much care not to pull the connector forcibly or break it open because it is easy to be damaged. And also, use the precision screwdriver in the same way in the installation. (Fig.3)

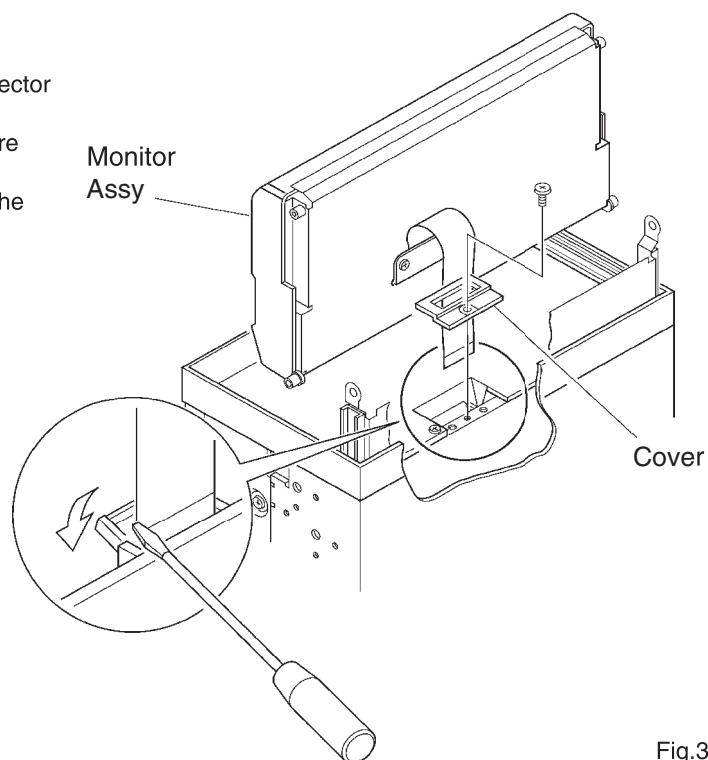


Fig.3

● Removing the Case Unit (Fig.4)

A

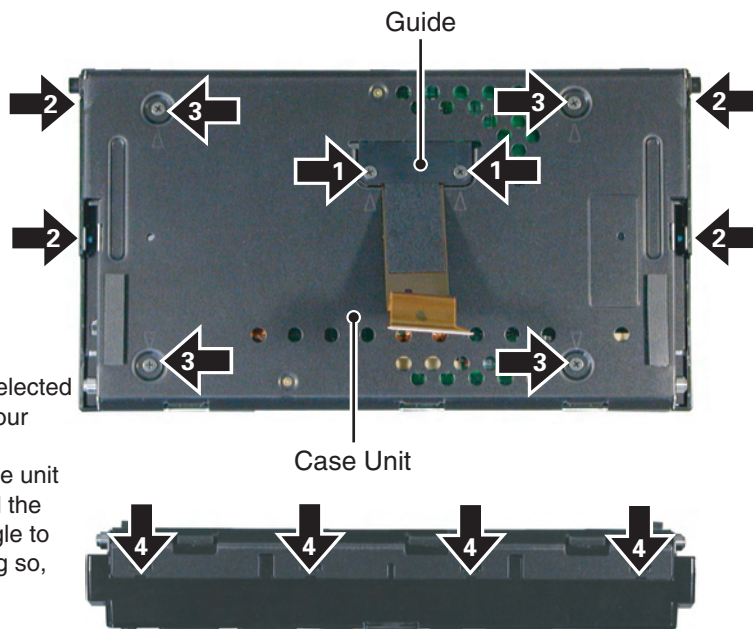
1 Remove the two screws and then remove the Guide.

2 Remove the four screws.

3 Remove the five screws and then remove the Case Unit.

B

4 Insert a flat screwdriver (2mm in width) selected among precision-type screwdrivers into four tabs shown below. When inserting the screwdriver into the gap between the case unit and the grill, push the screwdriver toward the case unit approximately at 45 degree angle to avoid it from contacting the grill. By doing so, you can open the unit easily.



Caution:

When assembling the case unit, be careful not to nip (damage) the touch-panel's tail (left side) and FFC with back of the case.

Fig.4

C

● Removing the Monitor Unit (Fig.5)

1 Remove the five screws.

Disconnect the connector and then remove the Monitor Unit.

D

About handling of touch panel

When replacing the touch panel (hereafter, "panel") located below the LCD panel, pay attention to the following.

- The panel is made of glass. So, be careful not to break or damage it.
- Do not leave your fingerprints on the panel display.
- The four sides and corners of the glass panel are sharp. So, handle it carefully to avoid any injury

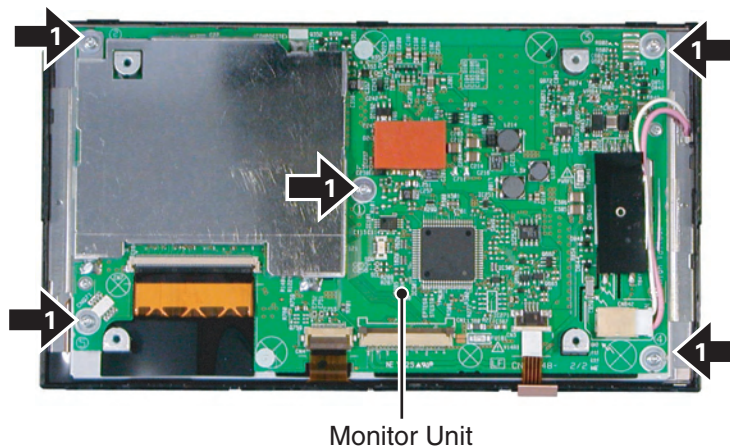


Fig.5

E

F

● Removing the DVD Mechanism Module (Fig.6)

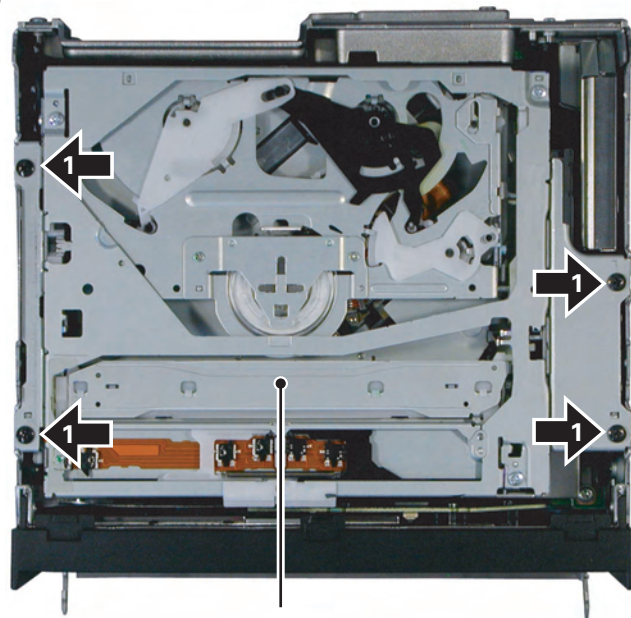
- ➡ **1** Remove the four screws.

Disconnect the connector and then remove the DVD Mechanism Module.

Caution:

When assembling or disassembling the DVD mechanism module, be sure to hold the external side.

When lifting the DVD mechanism module, lift it from the front side to avoid a burden on the connected connector.

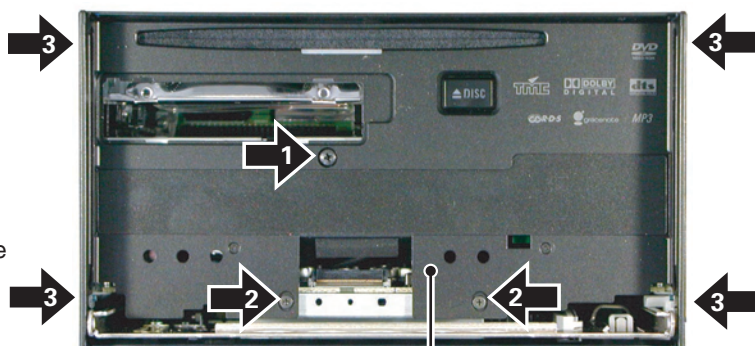


DVD Mechanism Module

Fig.6

● Removing the Panel Unit (Fig.7)

- ➡ **1** Remove the screw.
- ➡ **2** Remove the two screws.
- ➡ **3** Remove the four screws and then remove the Panel Unit.



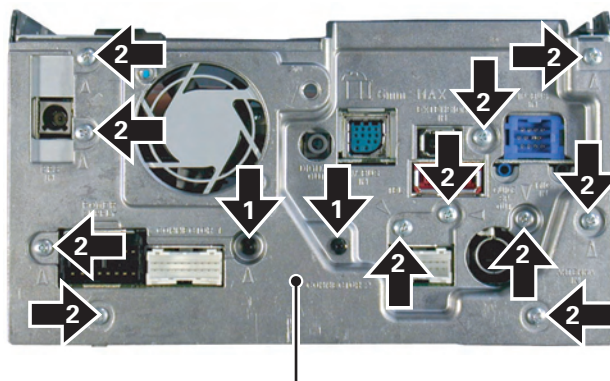
Panel Unit

Fig.7

● Removing the Heat Sink (Fig.8)

- ➡ **1** Remove the two screws.
- ➡ **2** Remove the eleven screws.

Disconnect the connector and then remove the Heat Sink.



Heat Sink

Fig.8

● Removing the Hard Disk Unit (Fig.9)

1. Insert tweezers into holes (four places) near the circumference of shield top surface, and lift the shield gradually with the tweezers.

1 Remove the four screws.

Disconnect the connector and then remove the Hard Disk Unit.

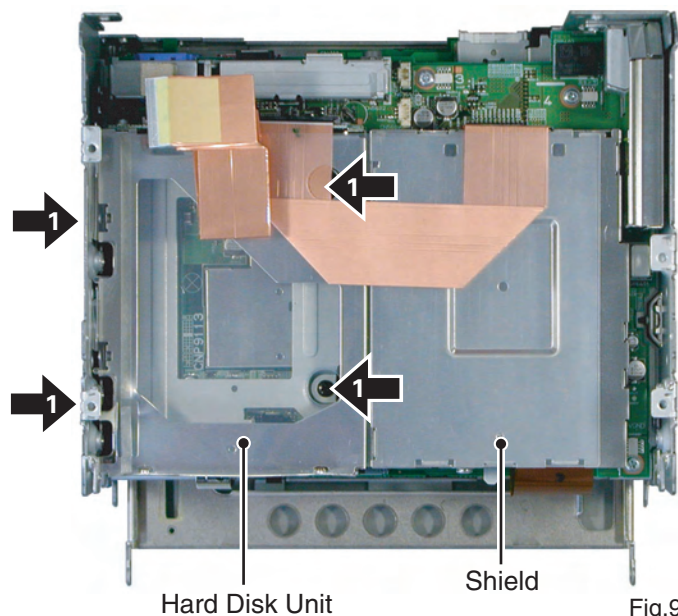


Fig.9

● Removing the CC Unit (Fig.10)

1 Remove the three screws and then remove the CC Unit.

● Removing the Navi Mother PCB (Fig.10)

2 Remove the screw.

3 Remove the six screws.

Disconnect the connector and then remove the Navi Mother PCB.

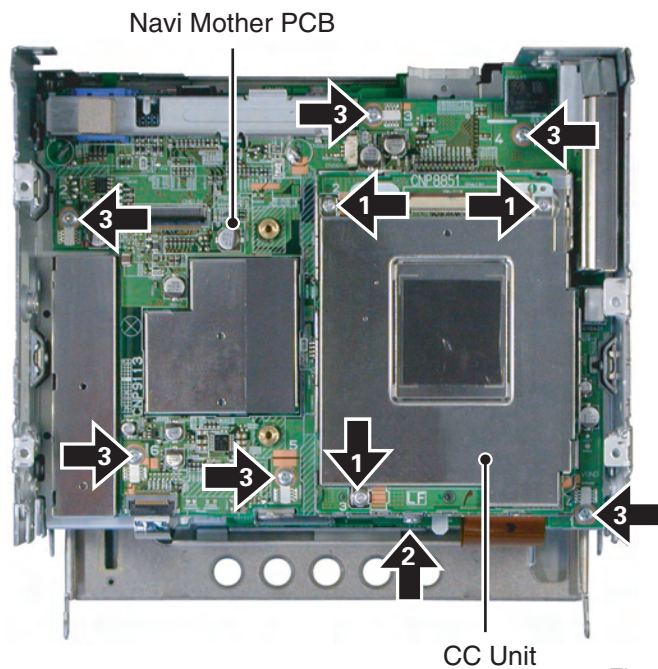


Fig.10

● Removing the Chassis Unit (Fig.11)

- ➡ **1** Remove the three screws and then remove the Chassis Unit.

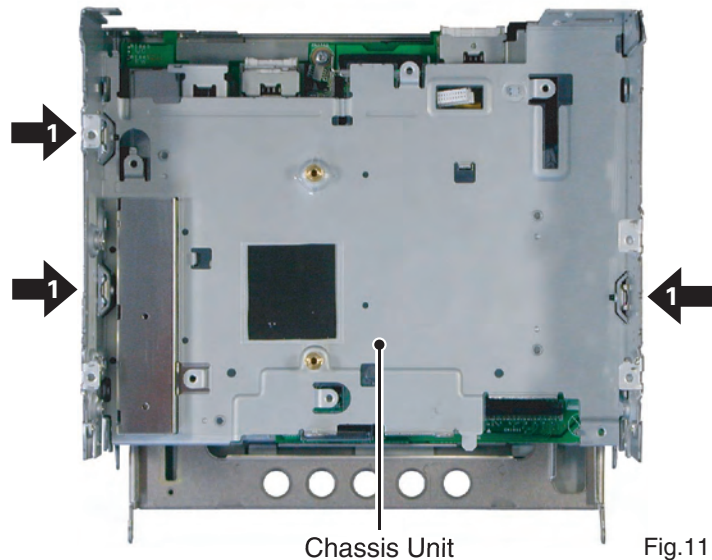


Fig.11

● Removing the Audio Unit (Fig.12)

- ➡ **1** Remove the screw.
- ➡ **2** Straighten the tab at location indicated.
- ➡ **3** Remove the four screws and then remove the Audio Unit.

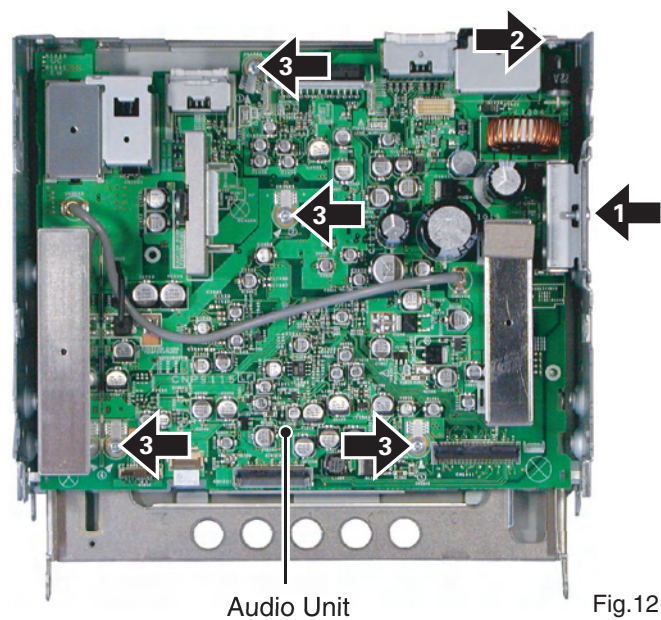


Fig.12

● Removing the Main PCB Unit (Fig.13)

- ➡ **1** Straighten the tabs at two locations indicated.
- ➡ **2** Remove the screw and then remove the Main PCB Unit.

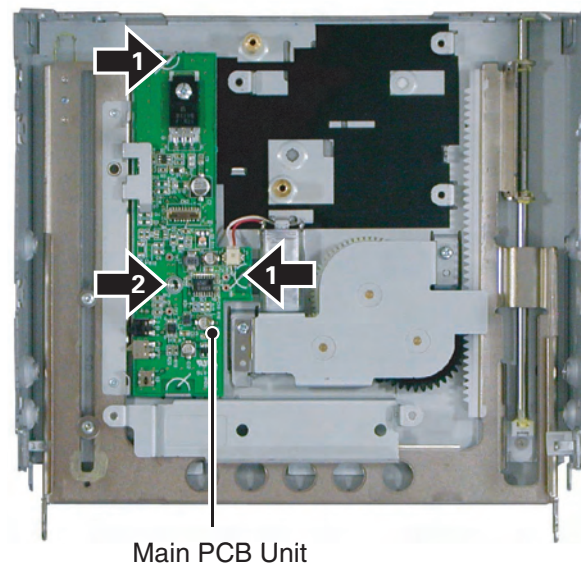
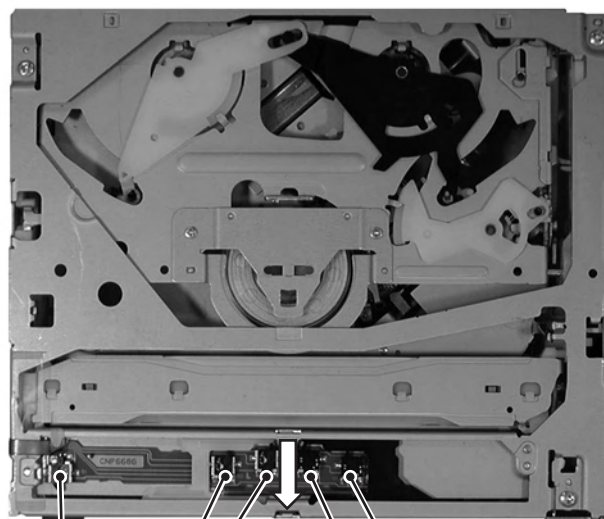


Fig.13

● Precautions on handling the mechanism module

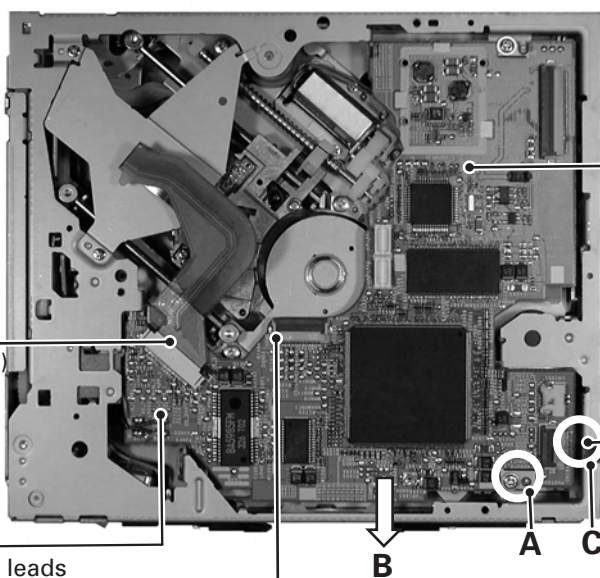
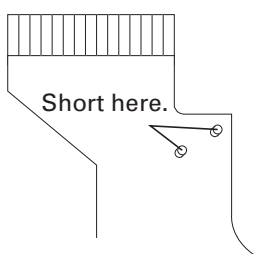
1. Hold the upper and main frames.
2. Do not hold the front portion of the upper frame. It is a delicate part.
3. Do not touch the switches on the top panel.
4. Be careful not to catch the flexible cables.



Do not touch here. Do not touch here.
Do not hold this delicate portion.

● Removing the module pc board

1. Set the mechanism to the lock position (disc load standby position).
2. Place the mechanism module upside down.
3. Short the two lands on the pickup flexible cable as shown below.
4. Be sure to disconnect the pickup flexible cable and the CRG flexible cable from the connectors to protect them from damages.
5. Remove solder from the load motor leads and clamp SW leads.
6. Loosen the two fixing screws. Lift the position A of the module pc board lightly and move it in the direction B to remove it. Be careful not to damage the flexible cable C.
7. Disconnect the 8/12 detection flexible-cable from the connector.



Module pc board

Connector
(for pickup flexible cable)

Load motor
leads and clamp SW leads

Connector
(for CRG flexible cable)

Connector
(for 8/12 detection flexible cable)

● Removing the pickup unit

1. Remove the module pc board in accordance with the procedure of "Removing the module pc board."
2. While holding the pickup case, remove the skew screw (main).
3. Lifting the end of the pickup rack, slide the main shaft, and remove the pickup unit.

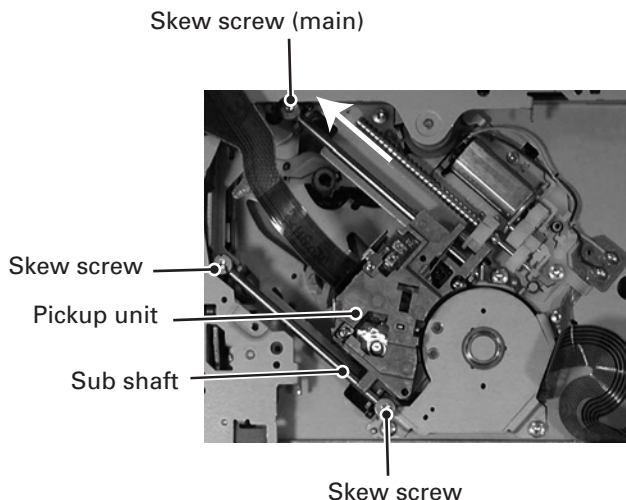
Notes:

Replacing the pickup unit requires the skew adjustment.

Remove glue from both ends of the main and sub shafts, and skew stud.

Do not reuse the old skew screw. Be sure to use a brand-new skew screw supplied with a new pickup unit.

Fix the skew screw with glue (GYL1001) after adjustment.

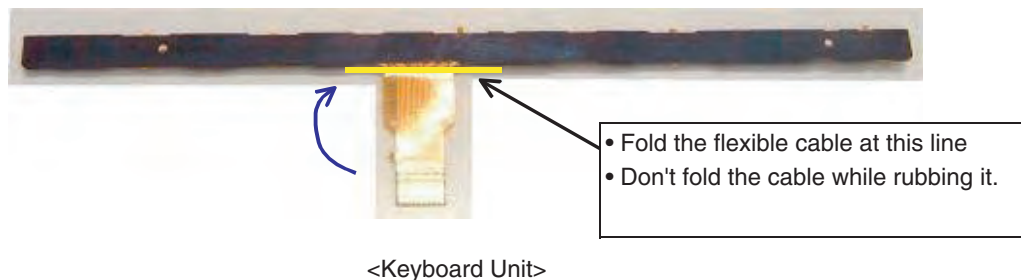


Notice of Exchange the Keyboard unit

• How to fold the flexible cable

The Keyboard unit of the service parts is not folded.

Please see the following picture and fold the flexible cable at 90 degrees.



Please check the following item after exchange the Keyboard unit

- 1 Lighting check of all LED device.
- 2 Operation check of the all switches.
- 3 Remote control receiver function check