

## A. How to remove CD Mechanism Assembly from unit:

Turn the unit upside-down and short one point with solder from the Chassis hole. This point is marked with "S" on CD Mechanism PC Board. This is necessary to prevent Opt-pickup electrostatic damage. (See Fig. 1.)

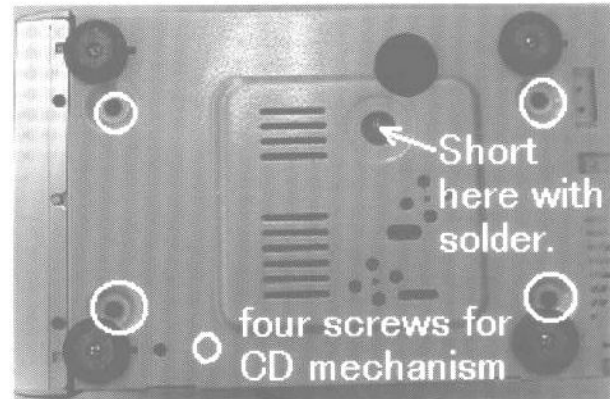


Fig. 1

## B. How to dismantle CD Changer Mechanism:

When replacing the optical pickup, first short the pattern on the CD Pick Up PC Board. (See Fig.1) Short the pattern for electrostatic protection on the CD Pick Up PC board before removing the flexible flat cable from it. After soldering, remove the flexible flat cable from the CD Pick Up PC Board.

### When replacing mechanism parts, do as follows:

First short the pattern with "S" for electrostatic protection on U-shaped CD mechanism PC Board. (Short from the bottom chassis hole.) (See Fig.1, Fig.2)

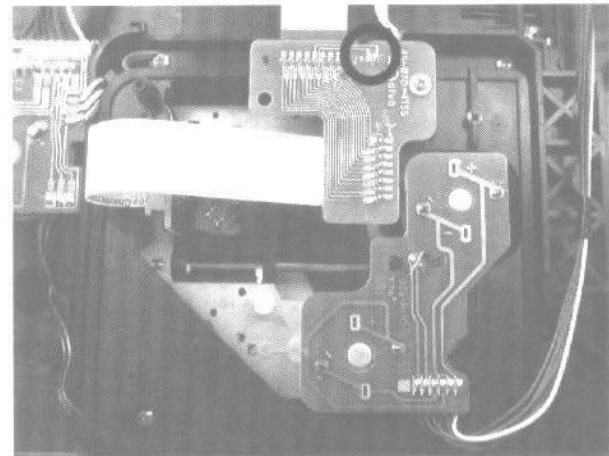


Fig. 2

## C. How to remove the Drawer block:

1. **This is the normal way.** (See pages 27 and 28 in the Service Manual.)

- 1) Remove 6 SCREWS(115) from COVER(23).
- 2) Turn PULLEY B(32) anti-clockwise and pull DRAWER(2) block. The DRAWER block is easily pulled out. (See Fig.3)

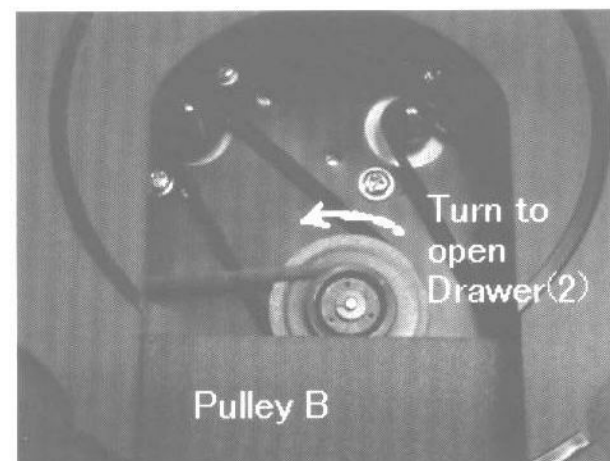


Fig. 3

3) After pulling out DRAWER block until around its half, divide CHASSIS(1) block hooks which fixing DRAWER block from the two points of left side then the right two with a minus(-) shaped driver or fingers.(See Fig. 4)(Because gears gang together inside at the right side.) With holding DRAWER block upward, pull out FLEXIBLE FLAT CABLE, FFC(75) from ONNECTOR(73) on connector PC BOARD(70), straight to the insertion direction.(See Fig. 5)

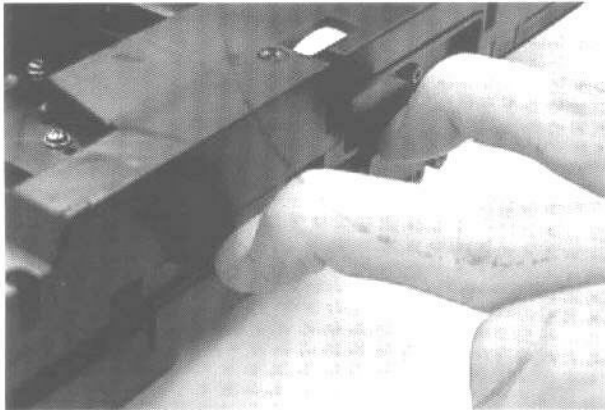


Fig.4

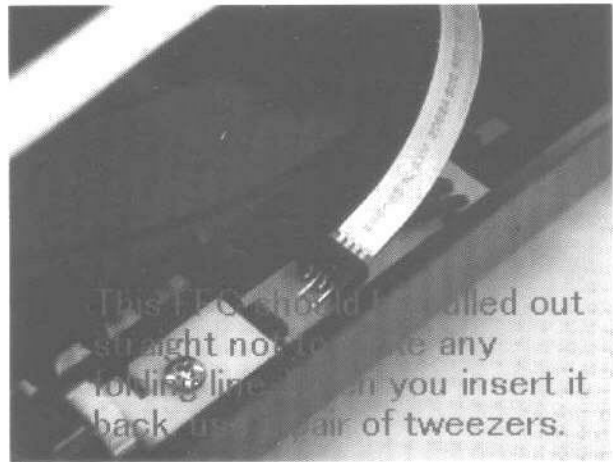


Fig.5

Note :

Take care not to make folding lines or scratches on the cable.  
Lines or scratches may cause broken wire after long use.

**2. This is the way when Carriages are jammed inside.**

- 1) Remove 6 SCREWS(115) from COVER(23).
- 2) Divide CHSSIS(1) block hooks which fixing DRAWER(2) block from the two points of left side then the right two with a minus(-) shaped driver or with fingers as like as below..(Because gears gang together inside at the right side.) With holding DRAWER block upward, pull out FFC(75) from CONNECTOR(73) on connector PC BOARD(70), straight to the insertion direction. (See Fig. 4, Fig. 5)

Note :

Take care not to make folding lines or scratches on the cable.  
Lines or scratches may cause broken wire after long use.

**D. How to remove CARRIAGES?**

How to remove CARRIAGES 10, 20 or 30(Carriage number changes with chances of Disk stopping) from CHASSIS(1).

- 1) Slide SLIDER 2(36) block inside and make the pin locked at inner-most of SLIDER 2 with ARM STOPPER B(38).
- 2) Then, slide SLIDER 2(36) outside.
- 3) By sliding SLIDER 2, ARM(44) moves up and it is locked.
- 4) Then CARRIAGES are unlocked and are easily removed outside.

Note :

How to distinguish CARRIAGES 10, 20 or 30.(See Fig.6)

Turn CARRIAGE upside-down and you can see two posts for CARRIAGE number detection.

CARRIAGE 10 has one post at inside.  
CARRIAGE 20 has one post at outside.  
CARRIAGE 30 has two posts at the both sides.

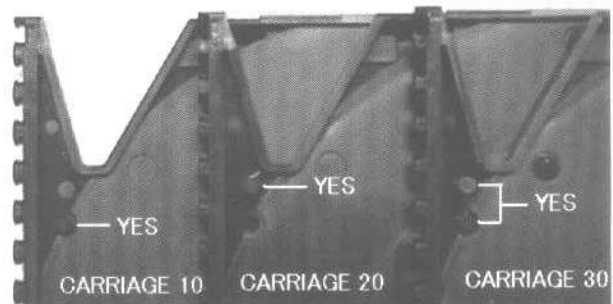


Fig.6

### How to remove CARRIAGES from DRAWER block

- 1) Turn GEAR IDLER 2(17) anti-clockwise. (See Fig. 7)
- 2) By turning GEAR IDLER 2, the uppermost CARRIAGE slides out.
- 3) Hold the CARRIAGE at its center and bring it up. Then you can take it out.
- 4) Then, turn GEAR IDLER 2(17) anti-clockwise and take out the second CARRIAGE.
- 5) Take out the bottom CARRIAGE with the same way.

Note :

GEAR IDLER 2 falls down easily. Take care for its missing.

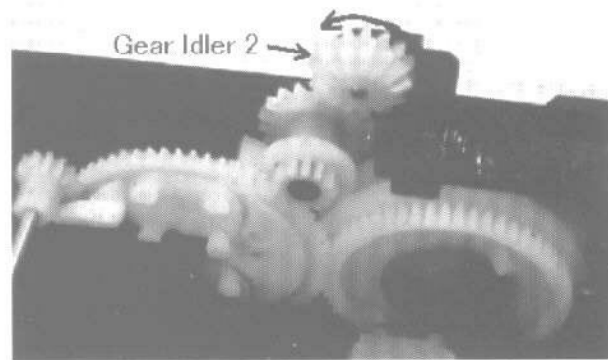


Fig.7

### E. How to re-assemble DRAWER block

A) First insert CARRIAGE 30(63) between ARM(44) and TURN TABLE and set it until inside end. Push SLIDER 2(36) block down and slide it until inside end. CARRIAGE is locked with ARM.

B) How to set CARRIAGES to DRAWER(2)

- 1) Turn GEAR IDLER 2(17) clockwise. The lower PINION in GEAR SUPPORT turns anti-clockwise. After it stops, the upper PINION turns clockwise. Just before the lower PINION starts to turn, stop to turn GEAR IDLER 2. Set CARRIAGE 20(62) as fitting it with the lower PINION as Fig. 8.
- 2) Then push in the left side of CARRIAGE 20 on STAR GEAR C(20) and the rail part by warping the CARRIAGE. (See Fig. 9)
- 3) Turn GEAR IDLER 2(17) clockwise to move CARRIAGE 20 inside. After it reaches innermost, you cannot turn GEAR IDLER 2.
- 4) Then set CARRIAGE 10(12) as same as 20.
- 5) Pulling up CARRIAGE 20 horizontally, turn GEAR IDLER 2 more clockwise.

Then, CARRIAGE 20 is installed and CARRIAGE 10 moves inside by turning GEAR

IDLER 2(17) clockwise.

- 6) After all CARRIAGES are set, turn DRAWER block upside-down. Insert FFC(75) straight into CONNECTOR(73) of CONNECTOR PC BOARD(70) with a pair of tweezers. Take care not to damage the Cable. (You may insert the Cable after item 9), just after fix the right side.)
- 7) In assembly of the left side of CHASSIS, GEAR IDLER A(39) has a direction.(See Fig.8) Set it as its marking faced to the front. (If it doesn't have any marking, no need to take care of direction.)

Note : GEAR IDLER A(39) may fall down. Take care for its missing.

- 8) Move BEVEL GEAR 1(27) to the center of the SHAFT(24).
- 9) First attach the right side hook part of DRAWER block to CHSSIS block and BEVEL GEAR(27) (See Fig. 10). Then move DRAWER block inside as holding its left side up. Fit its left side project into the hole of CHASSIS end.

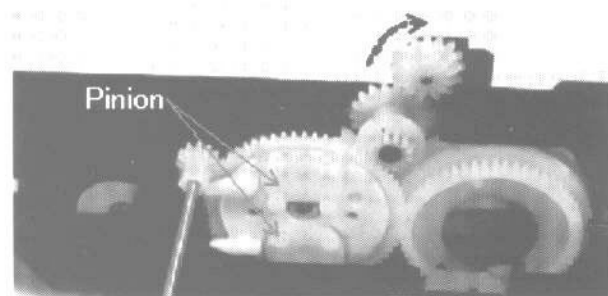


Fig.8

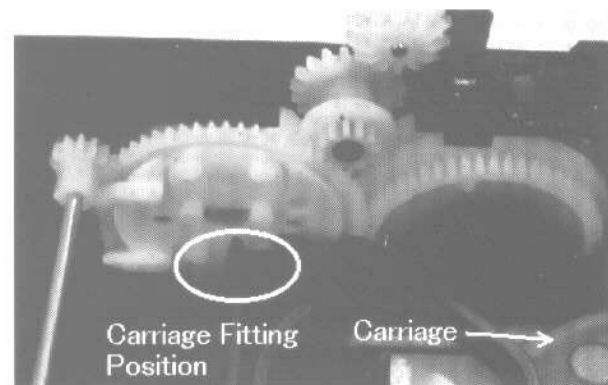


Fig.9

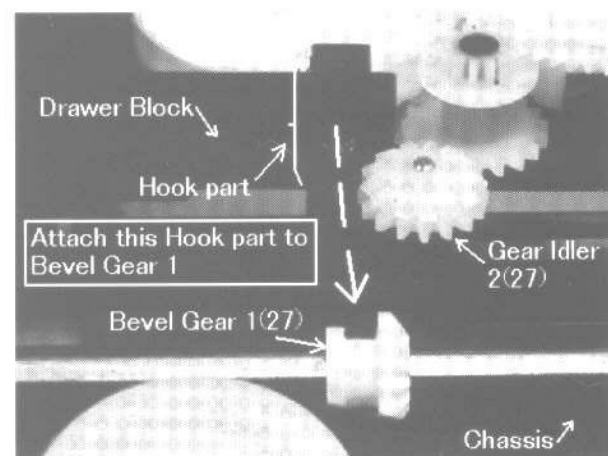


Fig.10

10) When you assemble DRAWER block with CHASSIS, it is important that linear gears in CHASSIS gang well with GEAR IDLER A(39). While GEAR IDLER A isn't ganged well, turn PULLEY B(32) (Fig. 3) a bit and make them ganged. (Take care not to turn it much. GEAR IDLER A should be in +/- 45 degrees from the center.) (See Fig. 11)

11) Push in two hooks at the both sides as they sound click. (You may fix the right side hooks first before you move Drawer block inside in item 9).

12) Put COVER(23) and mount six SCREWS(115).

13) This is a completed or removed condition. (See Fig. 12)

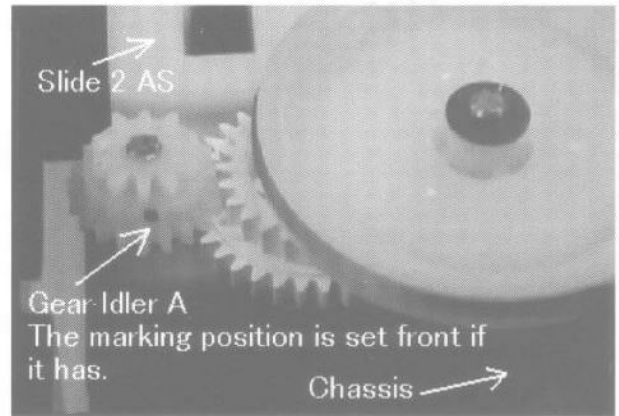


Fig. 11

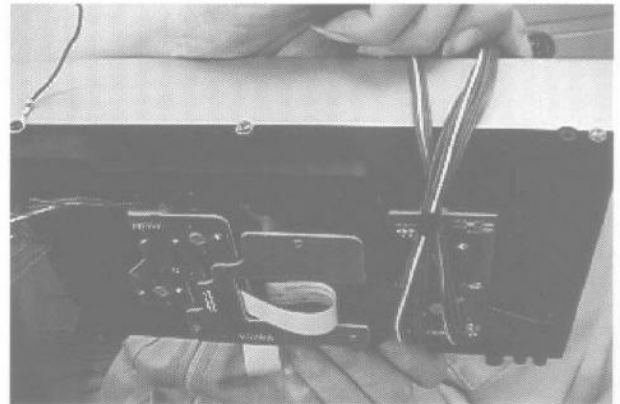


Fig. 12