

Chapter 1. Disassembly & Assembly Guide

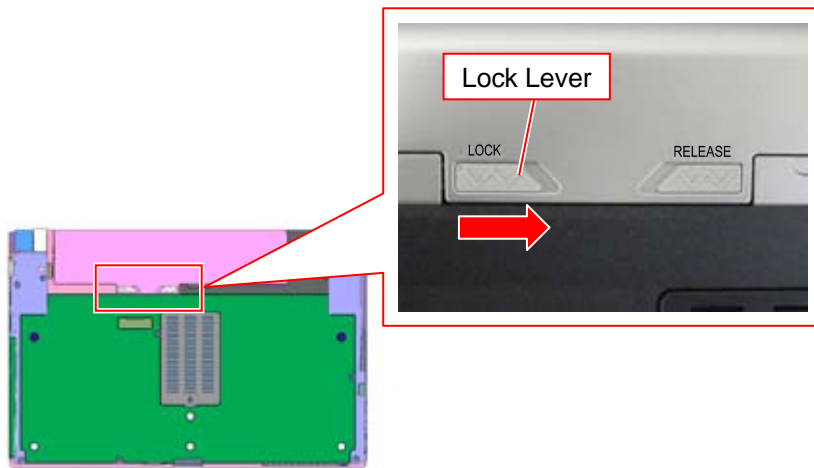
1-3. Disassembly & Assembly

- Main Section -

MS-1 Main Section Disassembly

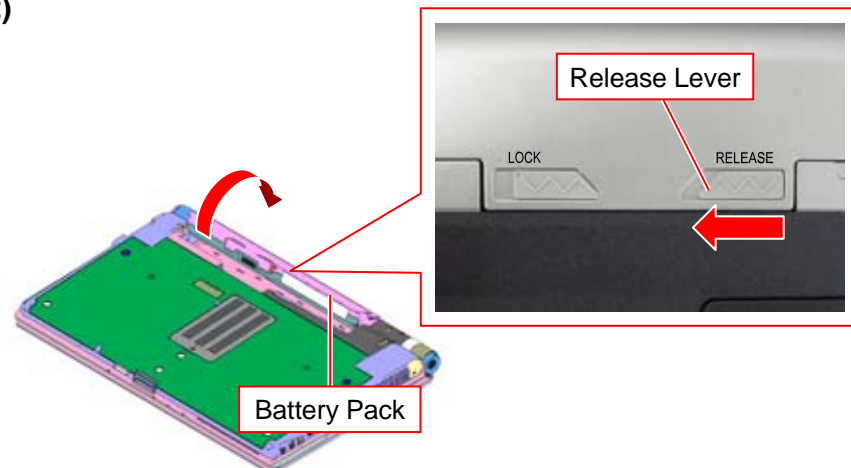
Battery Pack

1)



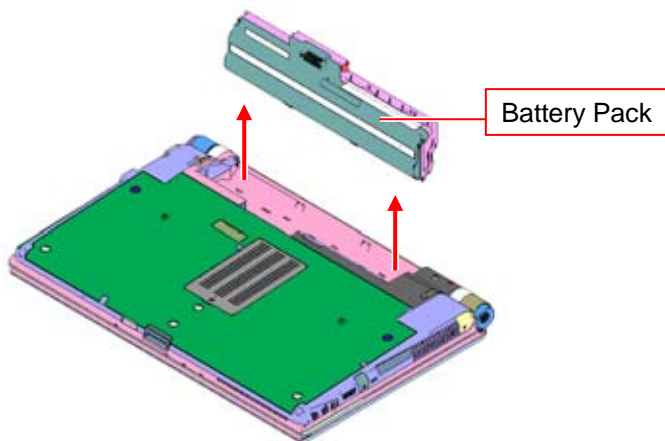
Slide the Lock Lever to the right.

2)



With the release lever slid to the left, raise the Battery Pack toward the rear.

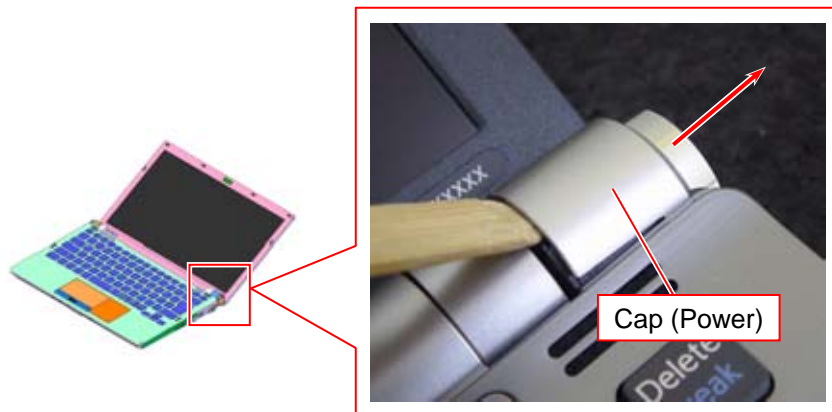
3)



Remove the Battery Pack.

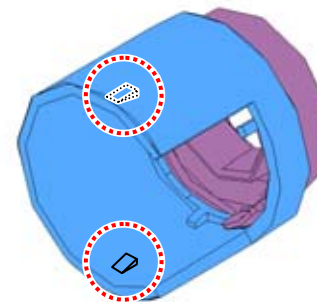
Cap (Power/DC)

1)



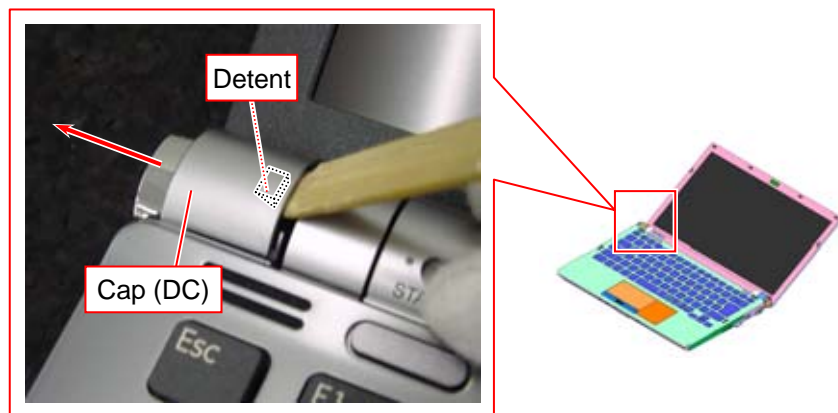
Remove the Cap (Power) while disengaging the detent (two places) with a bamboo spatula.

Remark



Position of Detent

2)

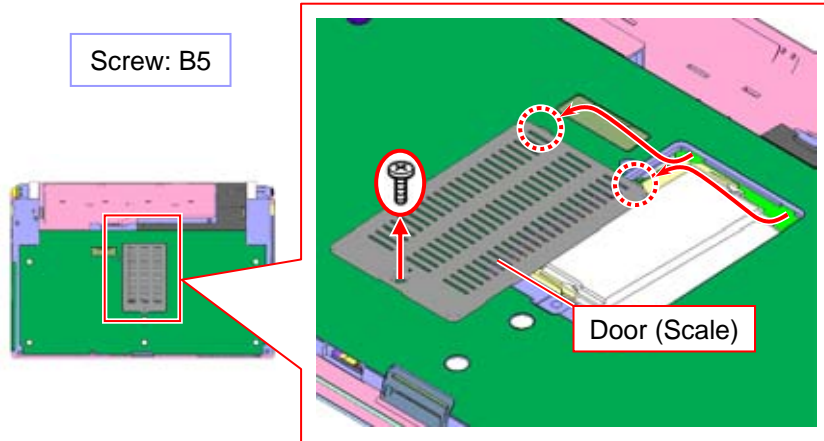


Remove the Cap (DC) while disengaging the detent (one place) with a bamboo spatula.

Memory

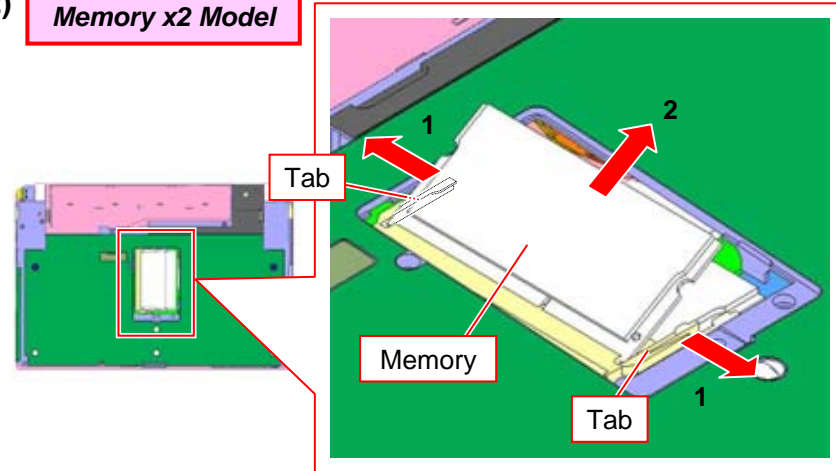
1)

Screw: B5



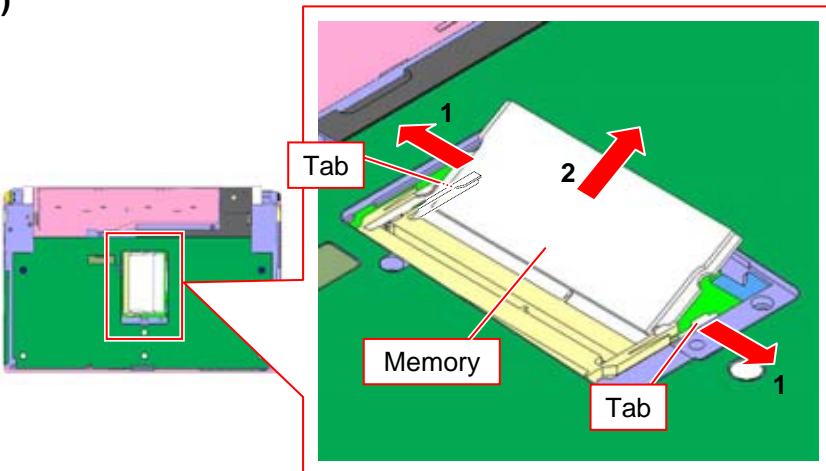
Remove the screw, and remove the Door (Scale) while disengaging the detent (two places).

2)

Memory x2 Model

Outspread the tabs (arrow 1), and remove the Memory diagonally upward (in the direction of the arrow 2).

3)

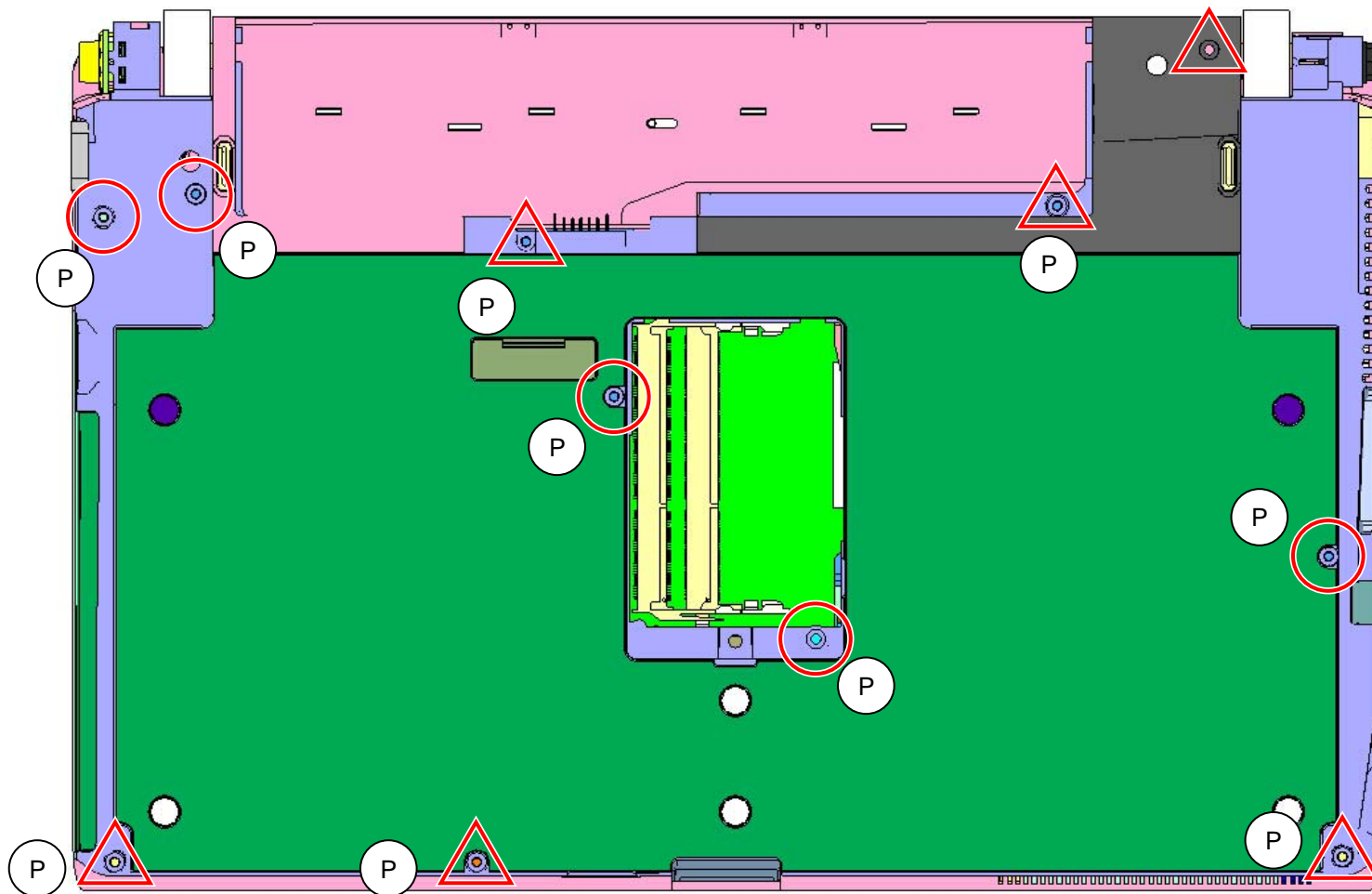


Outspread the tabs (arrow 1), and remove the Memory diagonally upward (in the direction of the arrow 2).

Screw

1)

Screw: ○ = B4 / △ = B5

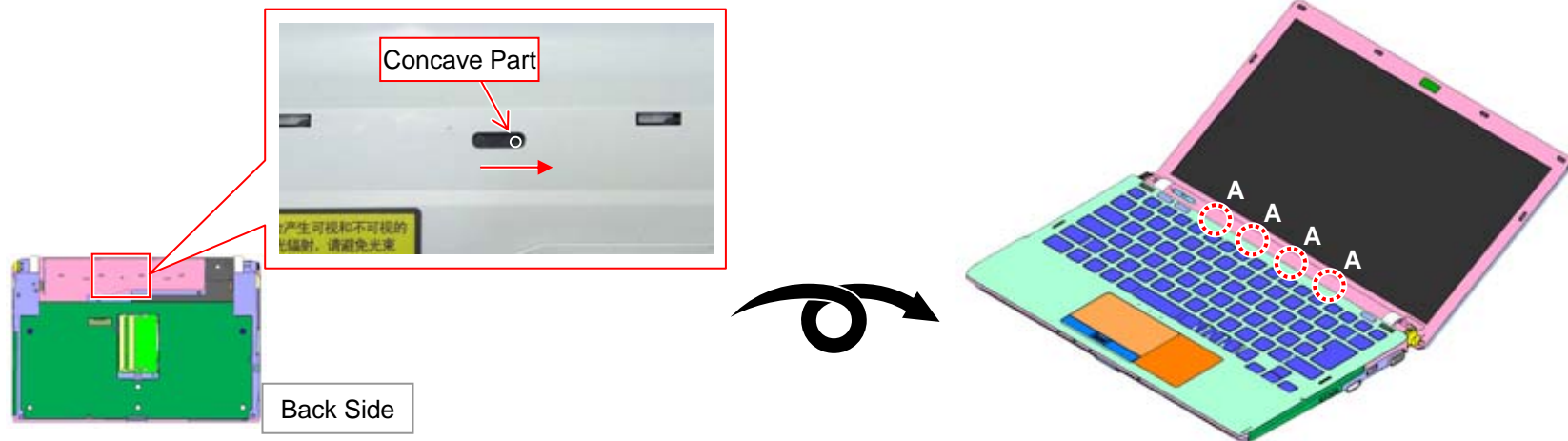


Remove the 11 screws.

*P = Palmrest Securing

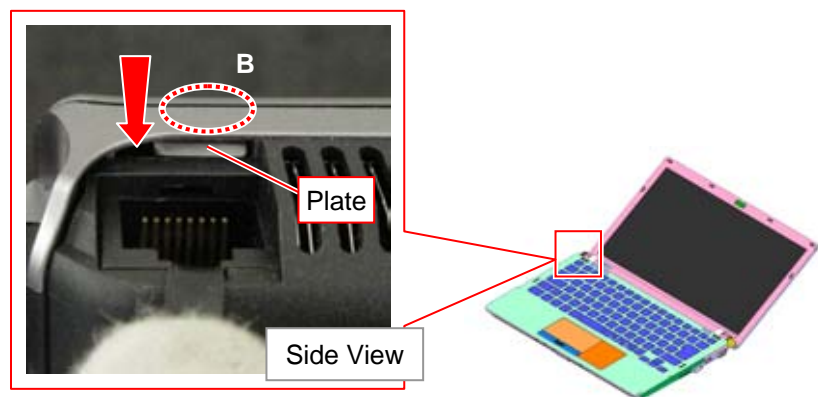
Palmrest -1

1)



Slide the concave part toward the right from the bottom of the main unit with tweezers to disengage the detent A (four places).

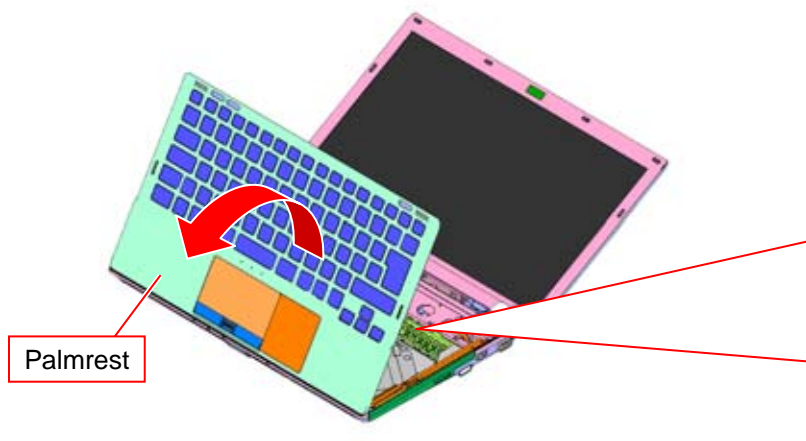
2)



Open the Cover (LAN) and push the plate inward with tweezers to disengage the detent B (one place).

Palmrest -2

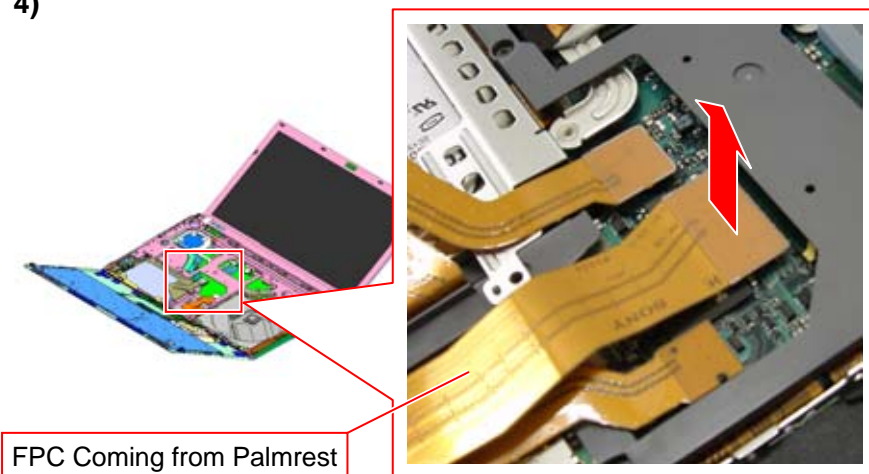
3)



Raise the Palmrest toward the front while disengaging the detent C (three places).

* Push the Palmrest in the direction of the arrow respectively to disengage the detent.

4)



Disconnect the FPC vertically.

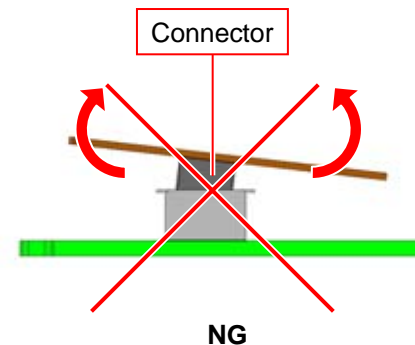
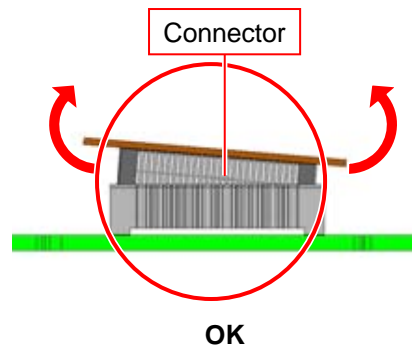
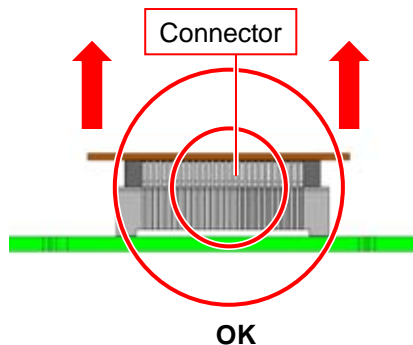
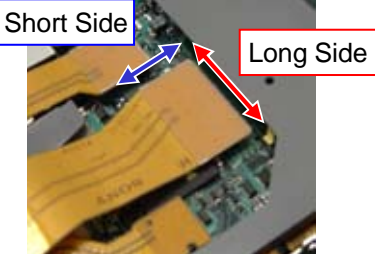
Palmrest -3

Caution 

Disconnect it vertically.

Long Side

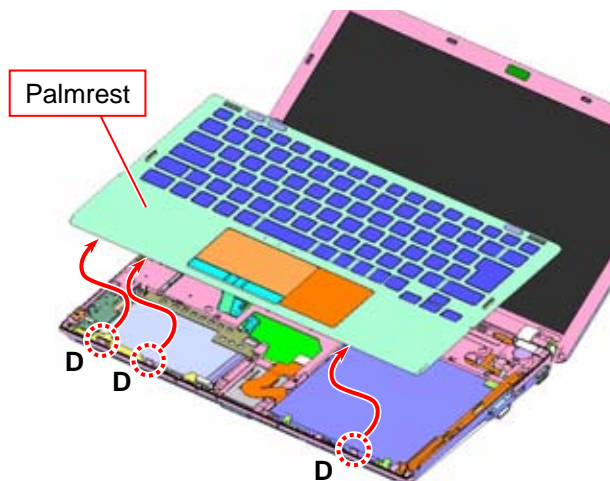
Short Side



When disconnecting the FPC, be sure to disconnect it by lifting up the connector vertically or disconnect it by raising the right and left side of the long side of connector slightly and alternately.
(Good Examples: Refer to the OK illustration.)

*** In the latter case, do not raise the short side of connector, or the connector will be damaged.**

5)



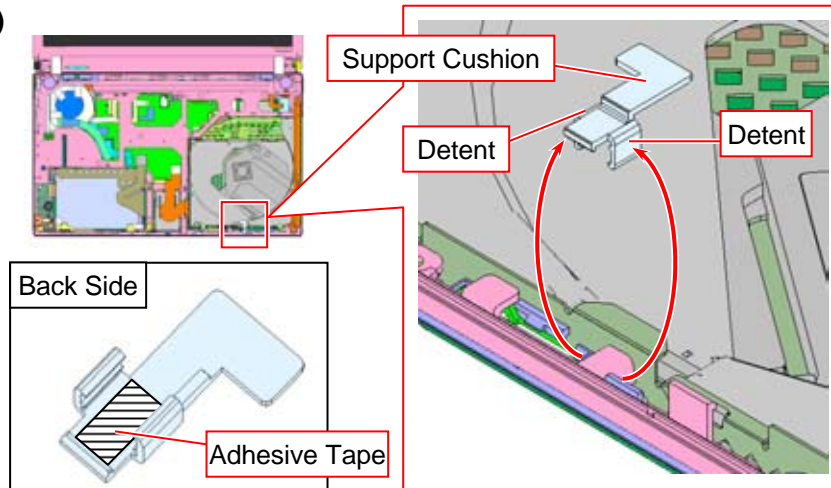
Disengage the detent D (three places) and remove the Palmrest.

*** Push the Palmrest in the direction of the arrow to disengage the detents.**

Support Cushion

ODD (Super Multi) Model

1)



While disengaging the detent (two places), remove the Support Cushion.

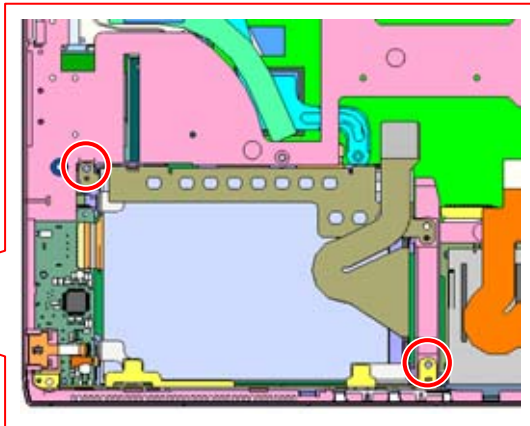
* Adhesive tape is attached on the back side.

HDD -1

HDD Model

1)

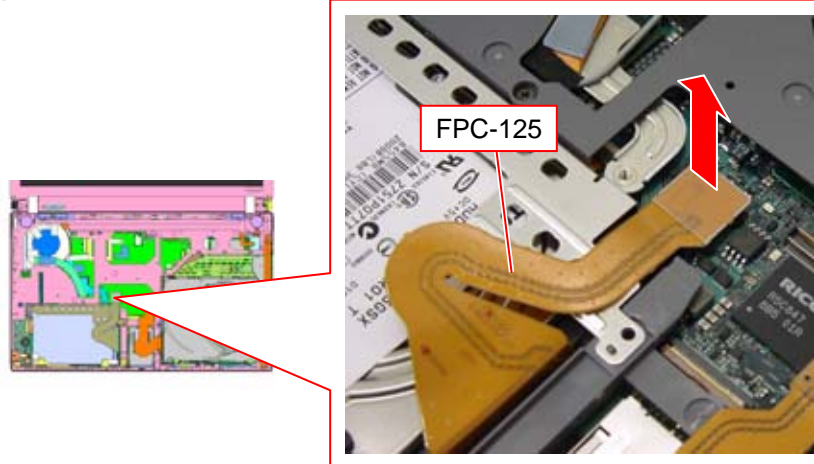
Screw:B5



Remove the two screws.

2)

FPC-125



Disconnect the FPC vertically.

Caution



Disconnect it vertically.

Long Side

Short Side

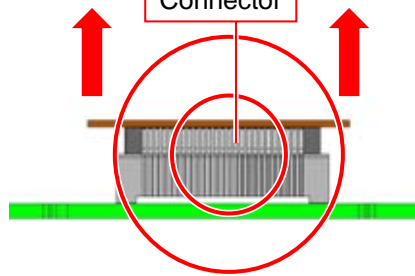
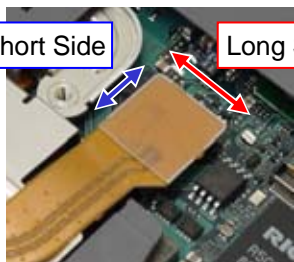
Connector

Connector

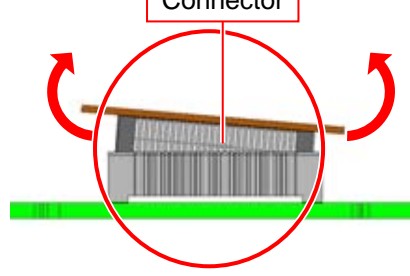
Connector

Short Side

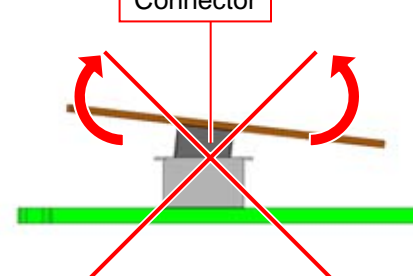
Long Side



OK



OK



NG

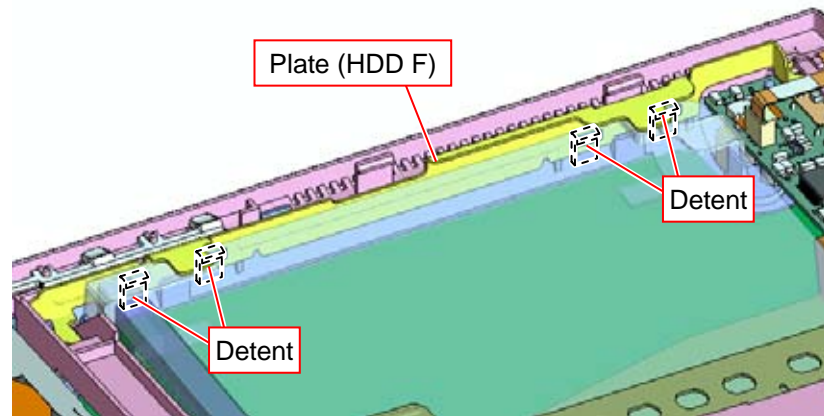
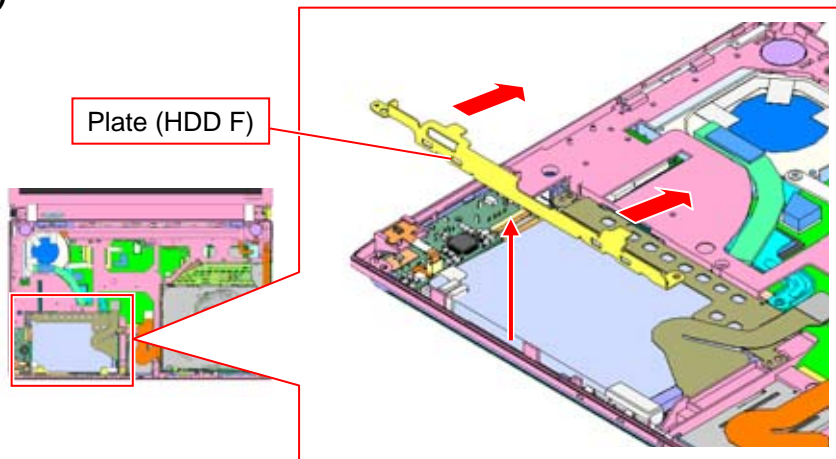
When disconnecting the FPC, be sure to disconnect it by lifting up the connector vertically or disconnect it by raising the right and left side of the long side of connector slightly and alternately. (Good Examples: Refer to the OK illustration.)

* In the latter case, do not raise the short side of connector, or **the connector will be damaged.**

HDD -2

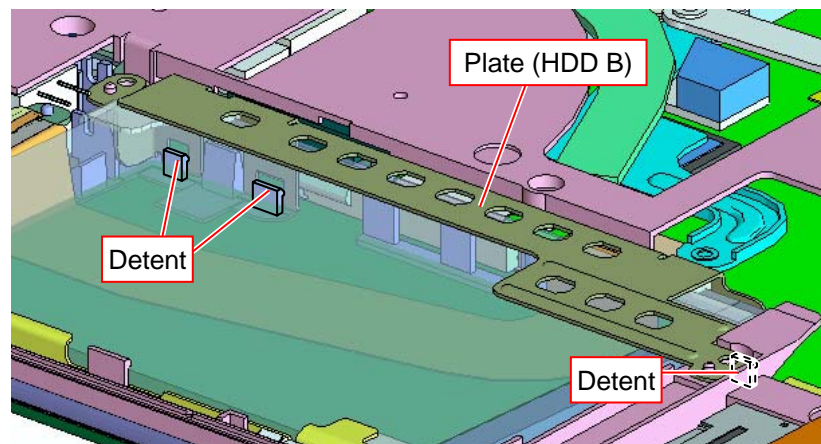
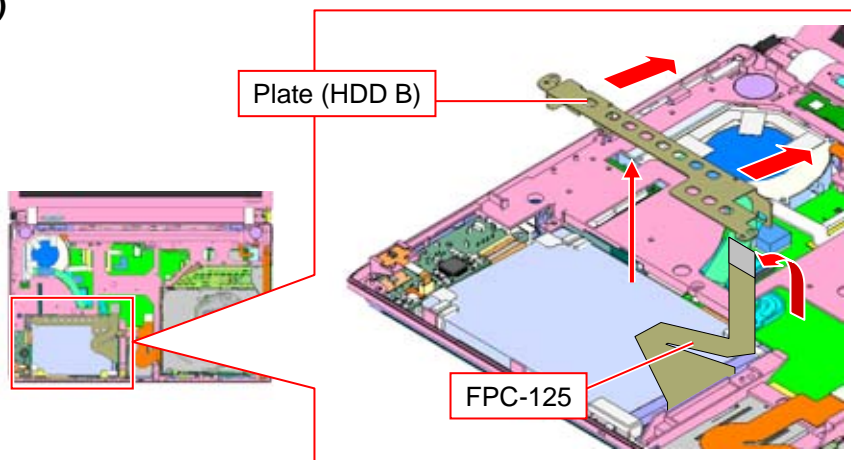
HDD Model

3)



Remove the Plate (HDD F) while disengaging the detent (four places) by pushing it toward the rear.

4)

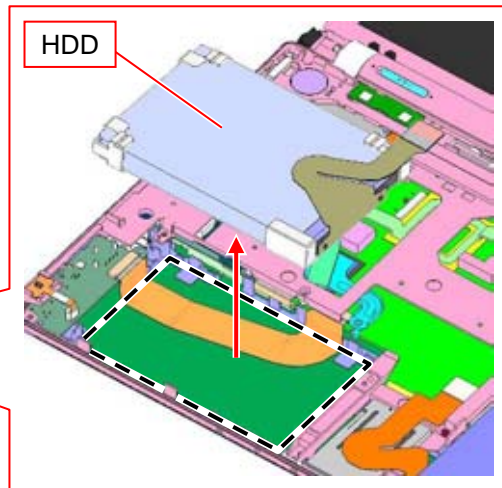


Put aside the FPC toward you, and remove the Plate (HDD B) while disengaging the detent (three places) by pushing it toward the rear.

HDD -3

HDD Model

5)

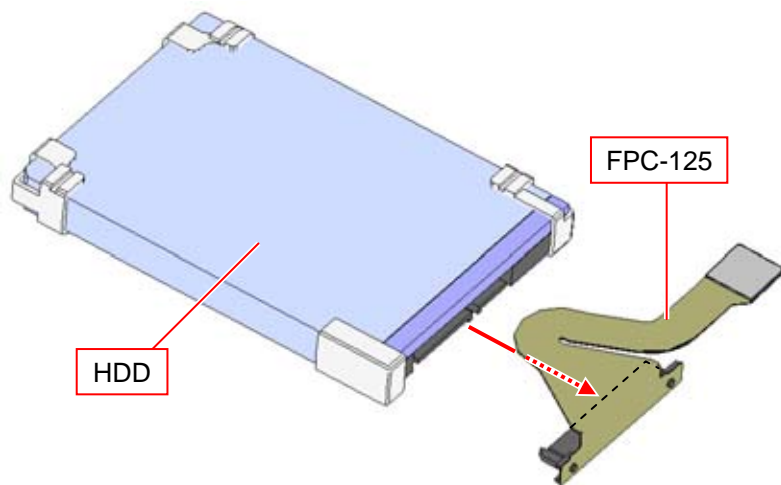


Remove the HDD.

Parts of the HDD

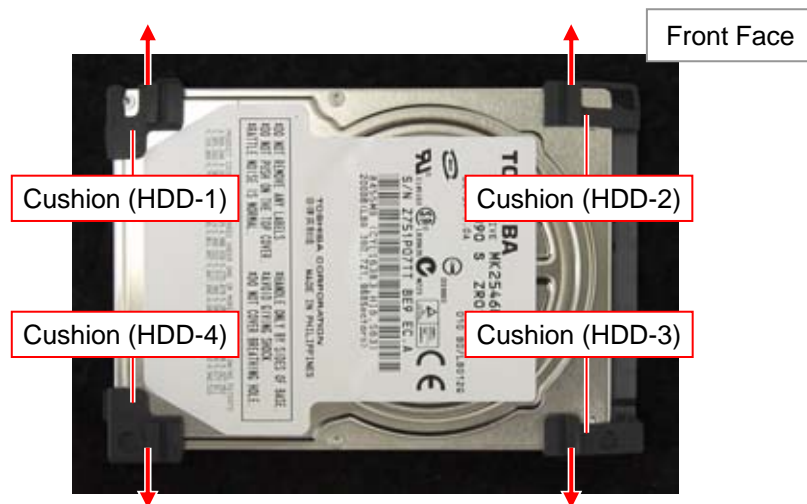
HDD Model

1)



Remove the FPC.

2)

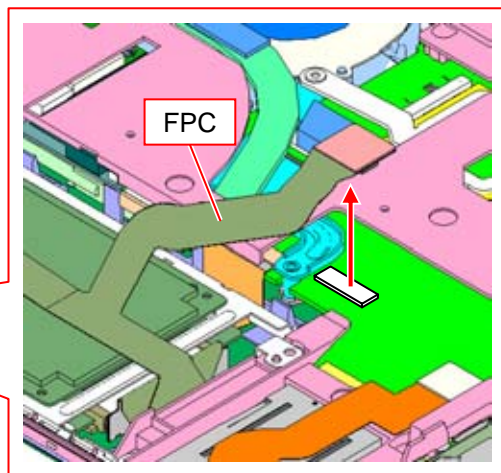


Remove the Cushion (four places).

SSD -1

SSD Model

1)



Disconnect the FPC vertically.

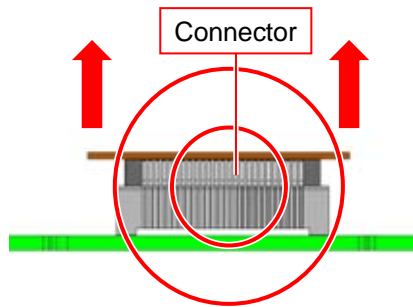
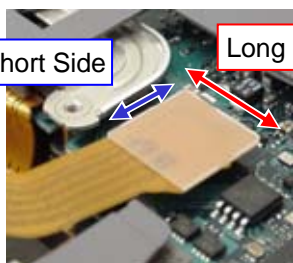
Caution



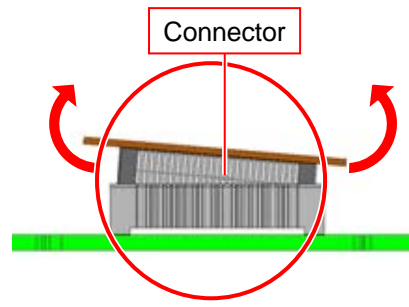
Disconnect it vertically.

Long Side

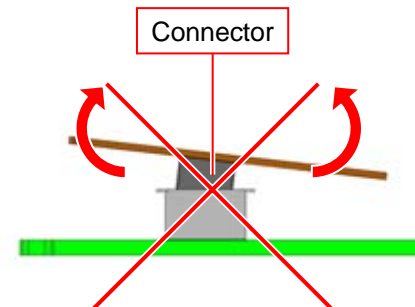
Short Side



OK



OK



NG

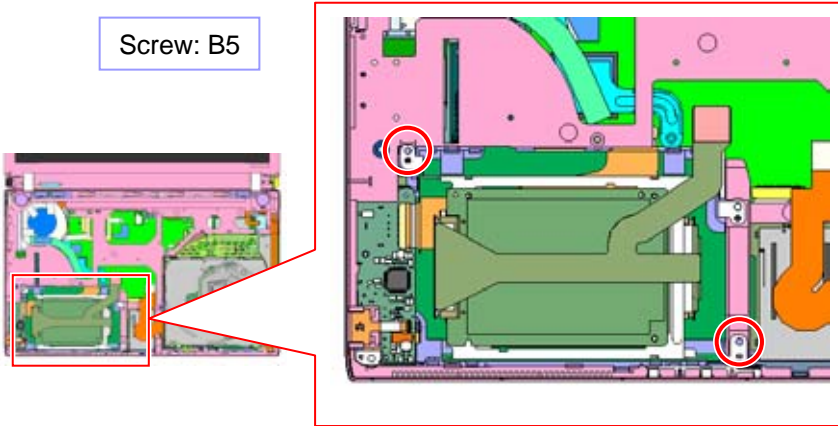
When disconnecting the FPC, be sure to disconnect it by lifting up the connector vertically or disconnect it by raising the right and left side of the long side of connector slightly and alternately. (Good Examples: Refer to the OK illustration.)

* In the latter case, do not raise the short side of connector, or **the connector will be damaged.**

SSD -2**SSD Model**

2)

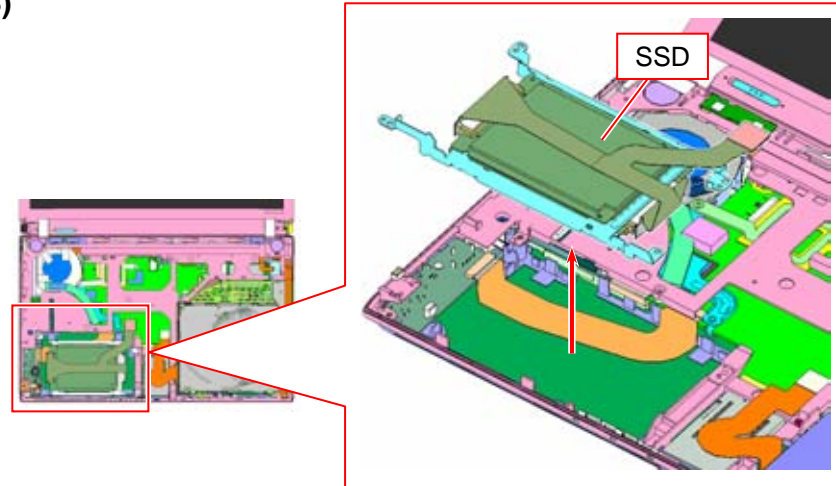
Screw: B5



Remove the two screws.

3)

SSD

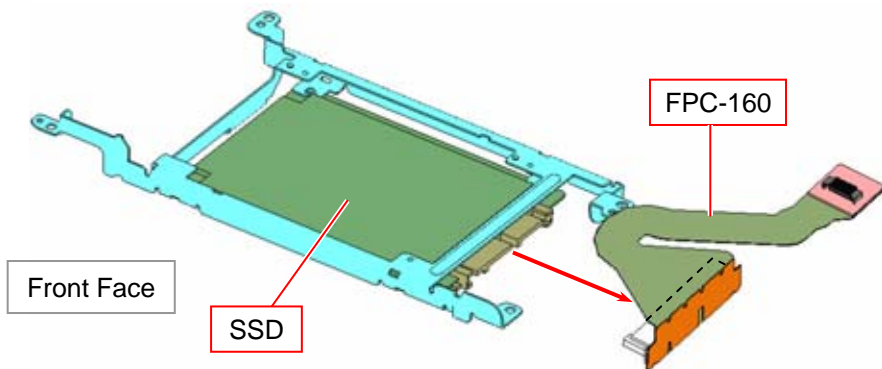


Remove the SSD.

Parts of the SSD

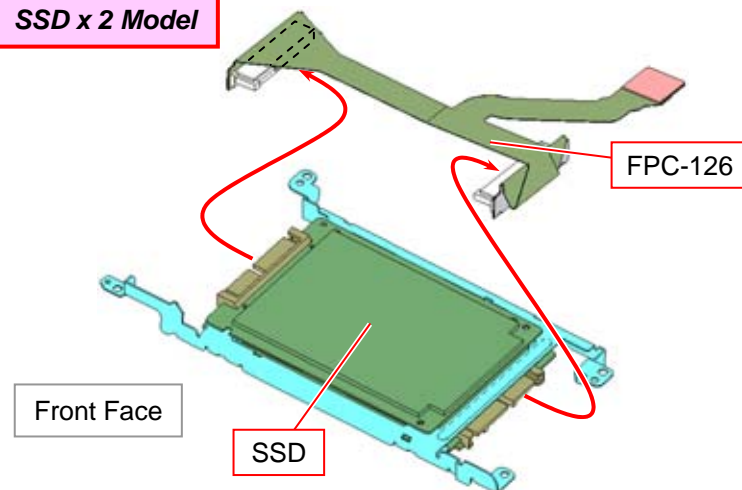
SSD Model

1) SSD x 1 Model



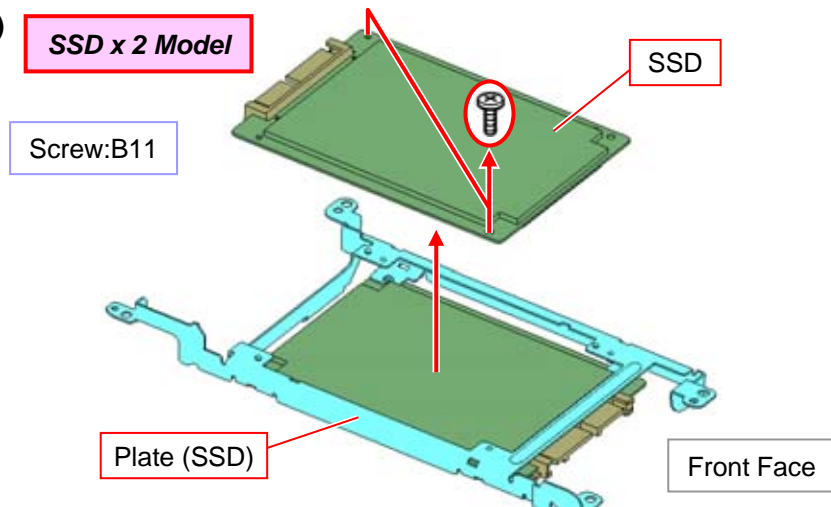
Disconnect the FPC.

2) SSD x 2 Model



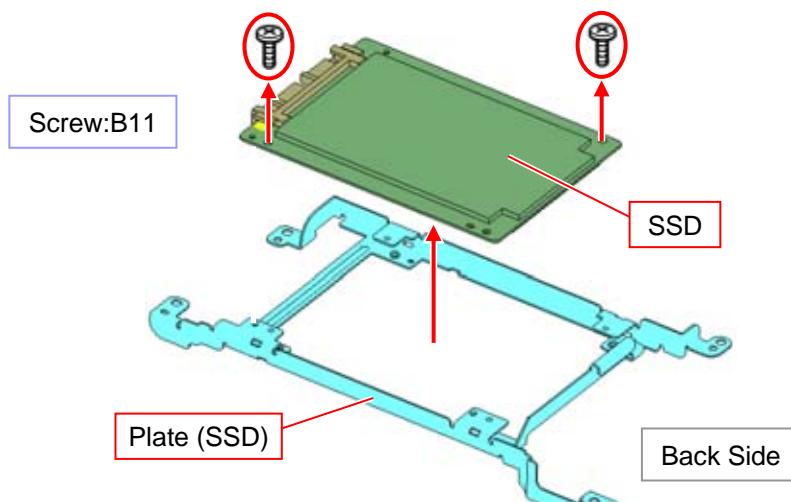
Disconnect the FPC (disconnect the two connectors).

3) SSD x 2 Model



Remove the two screws and remove the SSD.

4)



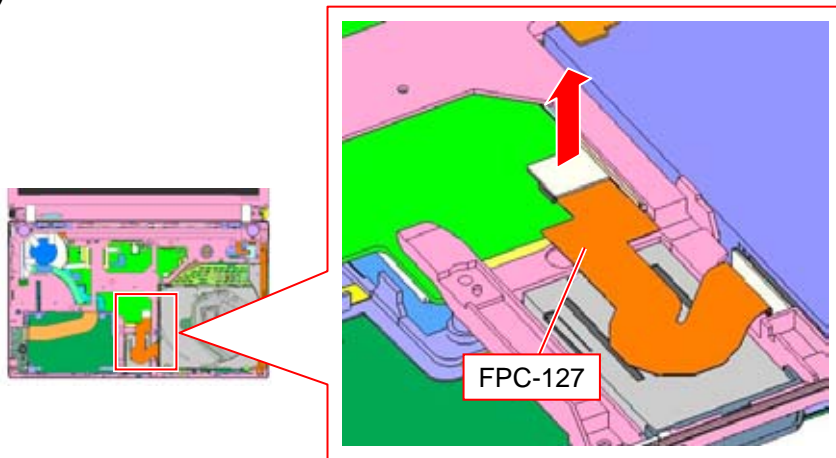
Remove the two screws and the SSD from the back side.

Optical Disc Drive -1

U-CTO or L-CTO Model



1)



Disconnect the FPC vertically.

Caution



Disconnect it vertically.

Long Side

Short Side

Connector

Connector

Connector

OK

OK

NG

When disconnecting the FPC, be sure to disconnect it by lifting up the connector vertically or disconnect it by raising the right and left side of the long side of connector slightly and alternately. (Good Examples: Refer to the OK illustration.)

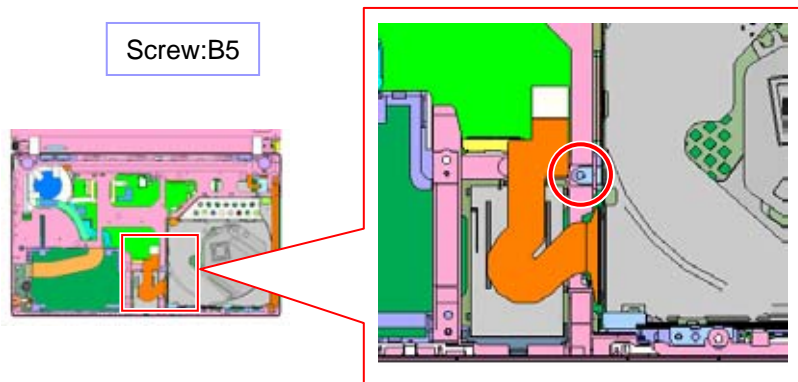
* In the latter case, do not raise the short side of connector, or **the connector will be damaged.**

Optical Disc Drive -2

U-CTO or L-CTO Model

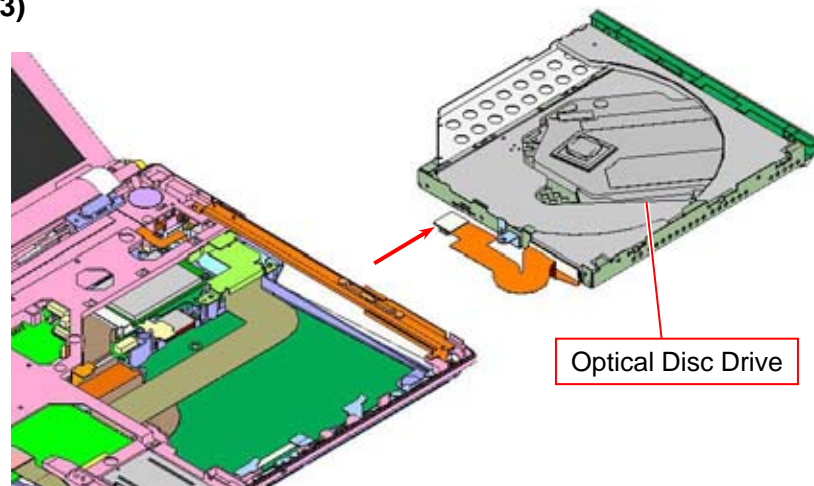


2)



Remove the screw.

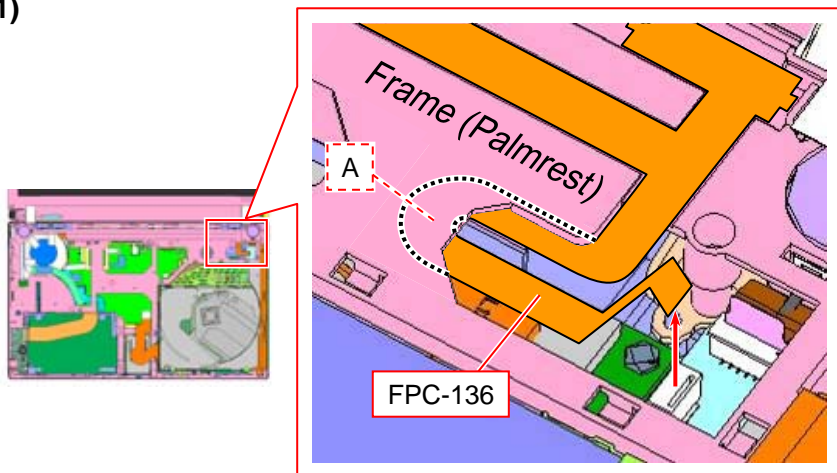
3)



Remove the Optical Disc Drive by sliding it.

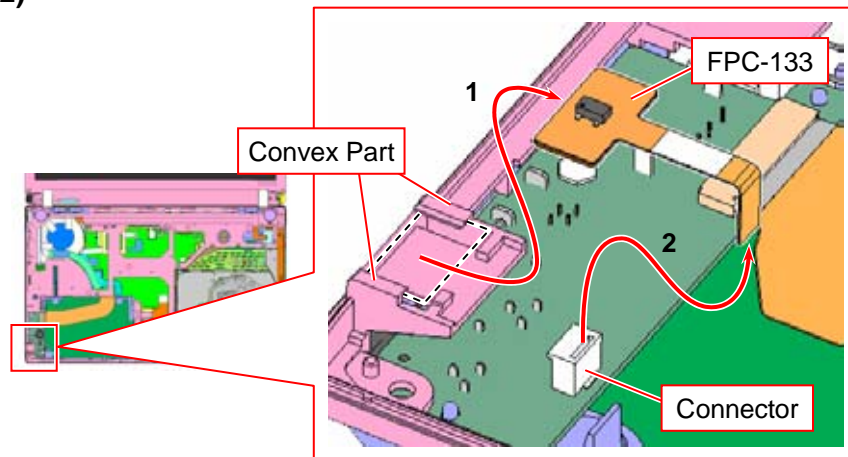
Frame (Palmrest) -1

1)



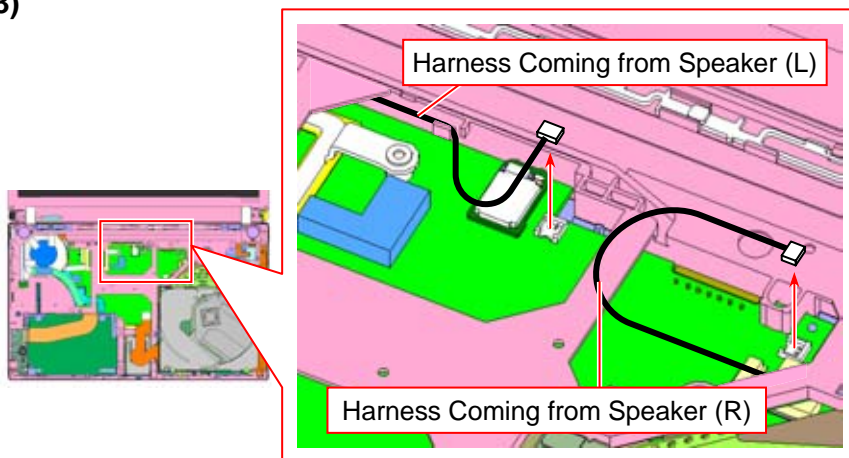
Disconnect the FPC and take out the A part from under the Frame (Palmrest).

2)



Remove the FPC from the convex part (two places) (arrow 1) and disconnect it from the connector (arrow 2).

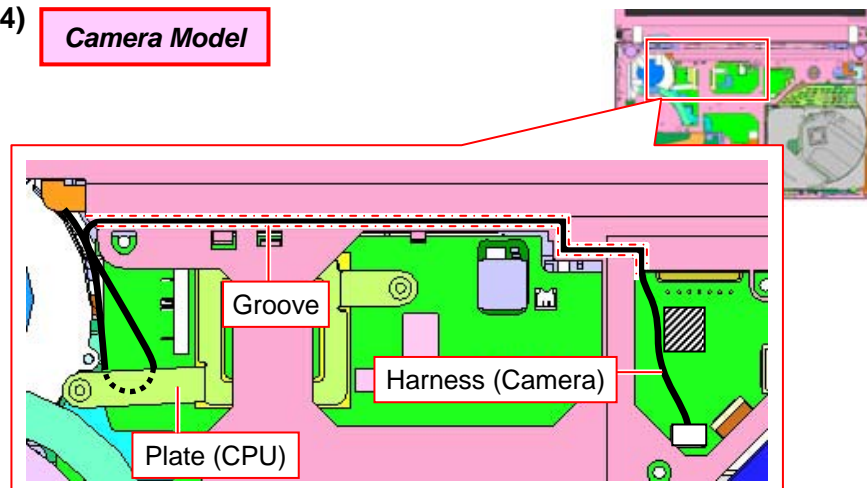
3)



Disconnect the Harness (two places) vertically.

4)

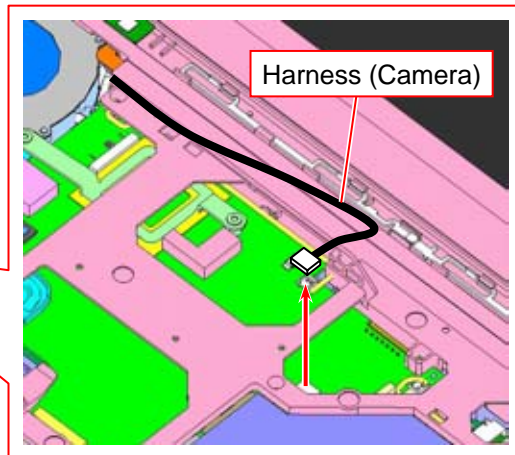
Camera Model



Release the Harness (Camera) from the groove, and take out it from under the Plate (CPU).

Frame (Palmrest) -2

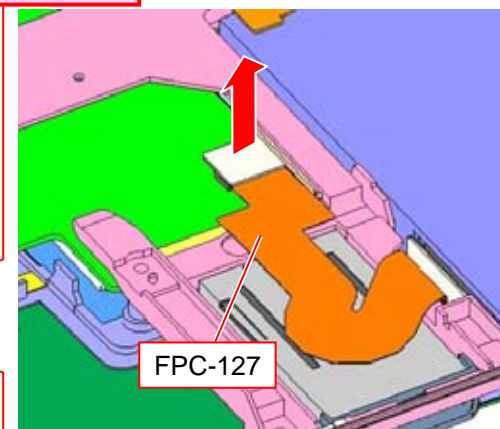
5) Camera Model



Disconnect the Harness (Camera) vertically.

6) Except U-CTO or L-CTO Model

⚠ [MA]



Disconnect the FPC vertically.

Caution ⚠

Except U-CTO or L-CTO Model

⚠ [MA]

Disconnect it vertically.

Long Side

Short Side

Connector

Connector

Connector

OK

OK

NG

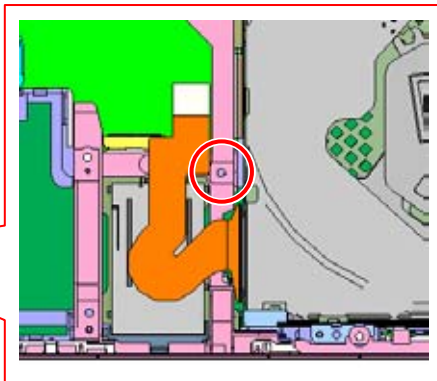
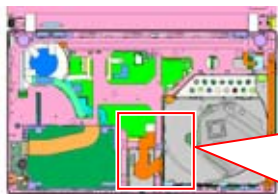
When disconnecting the FPC, be sure to disconnect it by lifting up the connector vertically or disconnect it by raising the right and left side of the long side of connector slightly and alternately. (Good Examples: Refer to the OK illustration.)

* In the latter case, do not raise the short side of connector, or **the connector will be damaged.**

Frame (Palmrest) -3

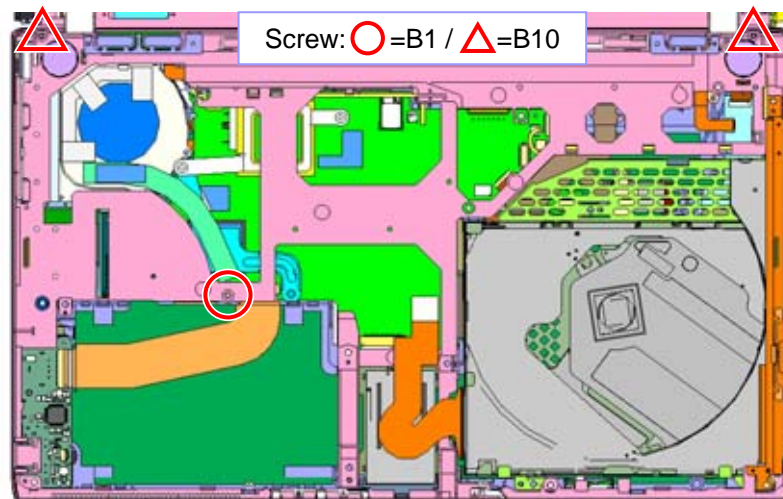
7) **Except U-CTO or L-CTO Model** ⚠️[MA]

Screw: B5



Remove the screw.

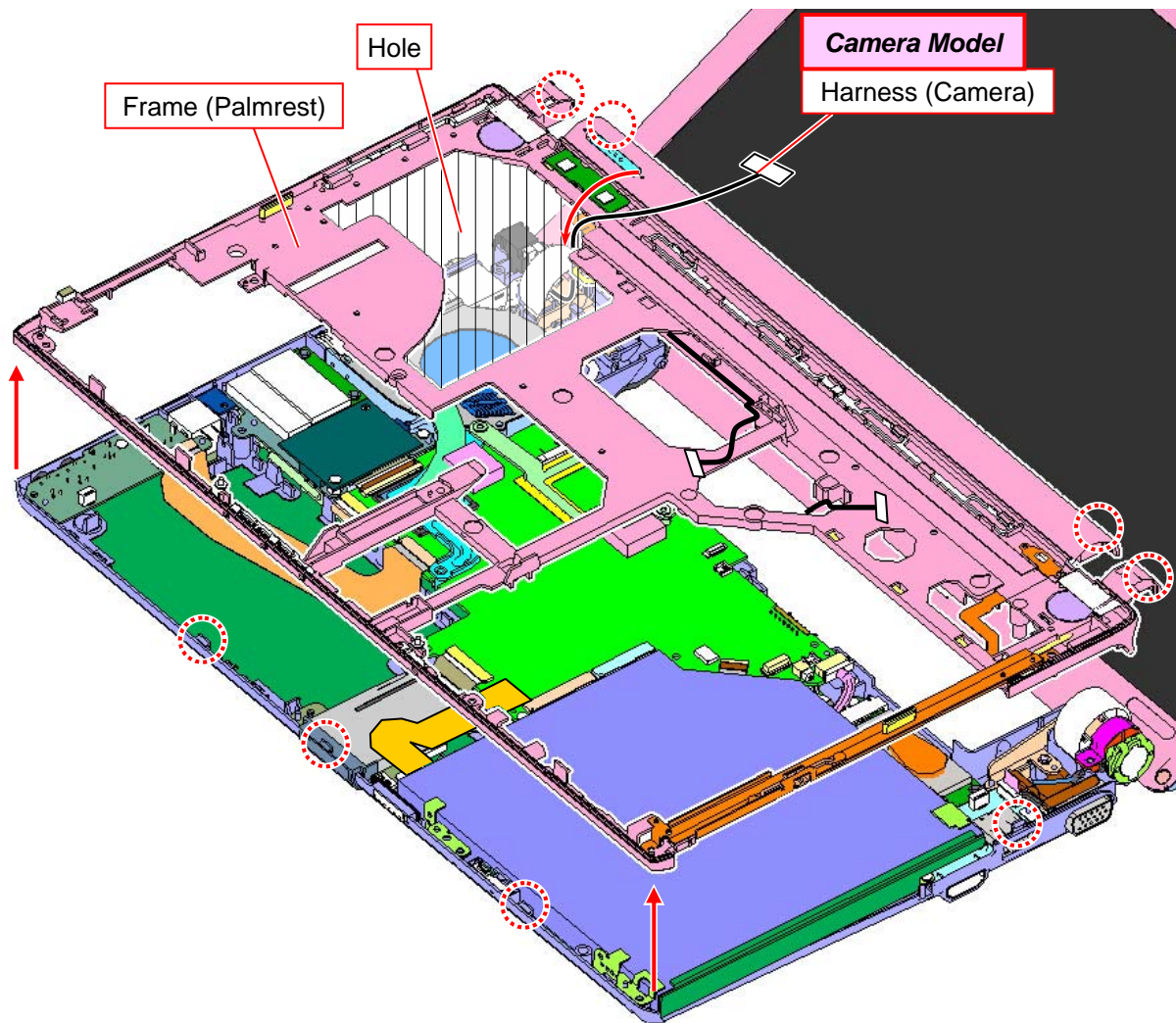
8) Screw: ○=B1 / △=B10



Remove the three screws.

Frame (Palmrest) -4

9)



1. Disengage the detent (eight places).

* The detent is engaged toward the outside.

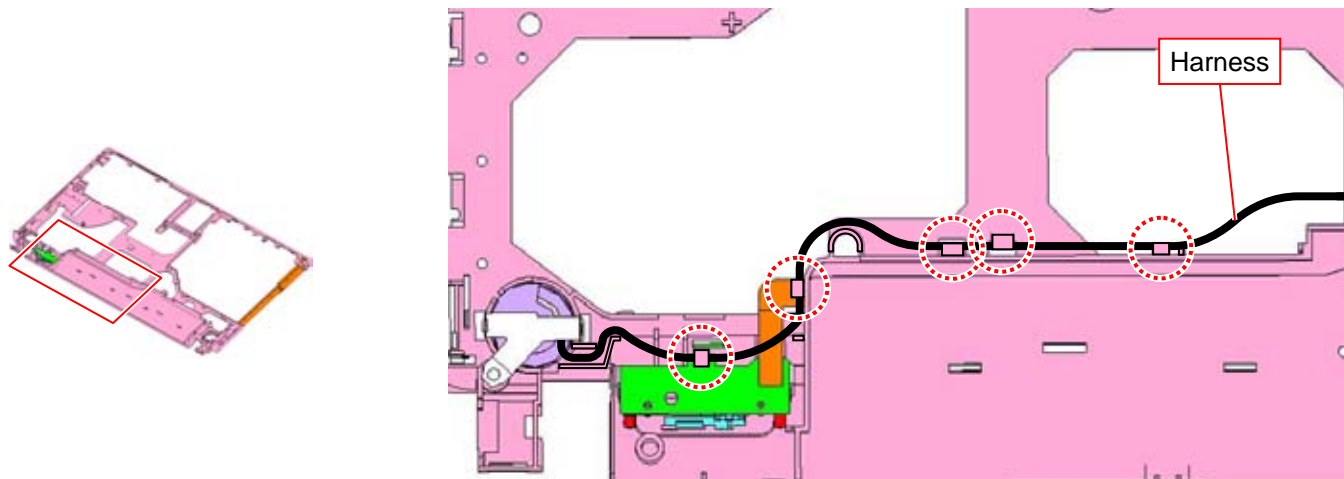
2. Pass the Harness (Camera) through the hole.

* Camera Model only

3. Remove the Frame (Palmrest).

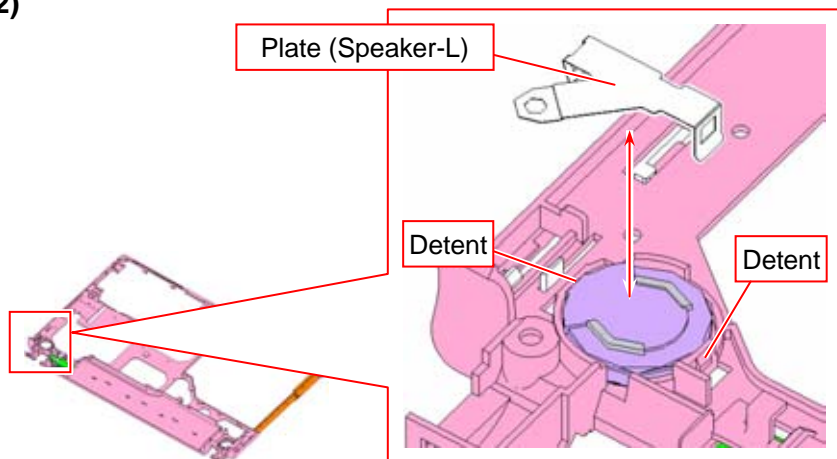
Parts of the Frame (Palmrest) -1

1)



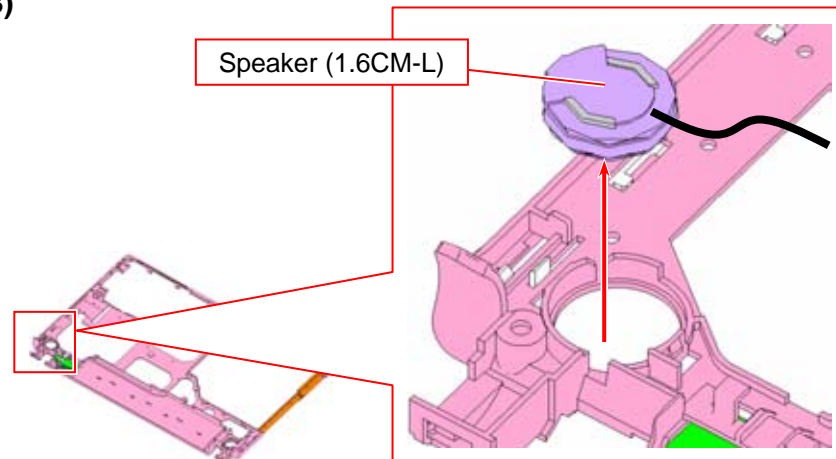
Release the Harness from the detent (five places).

2)



Disengage the detent (two places) from the Plate (Speaker-L) and remove the Plate.

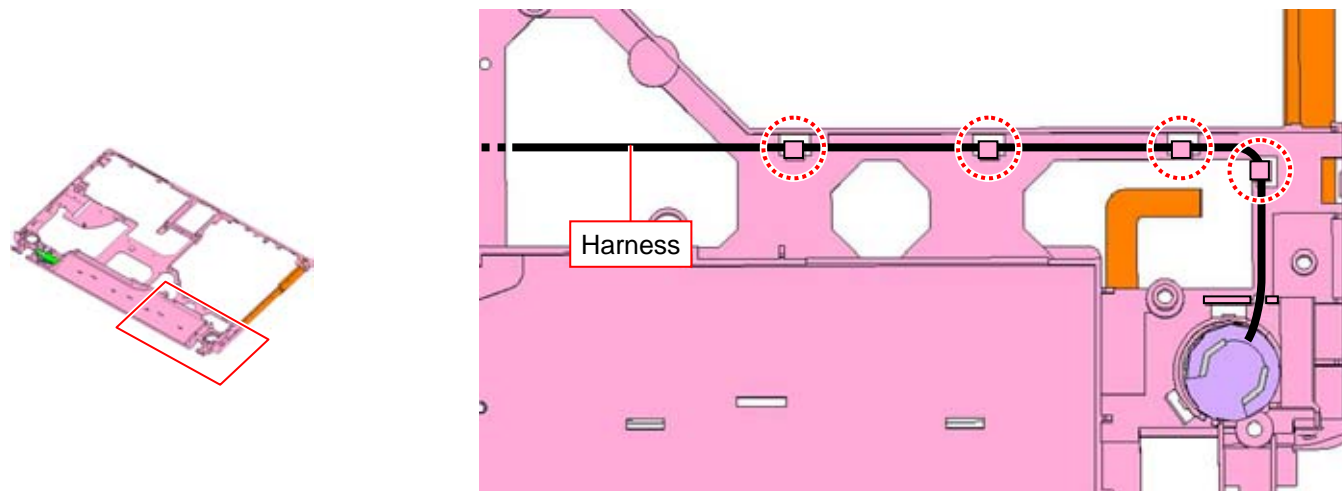
3)



Remove the Speaker (1.6CM-L).

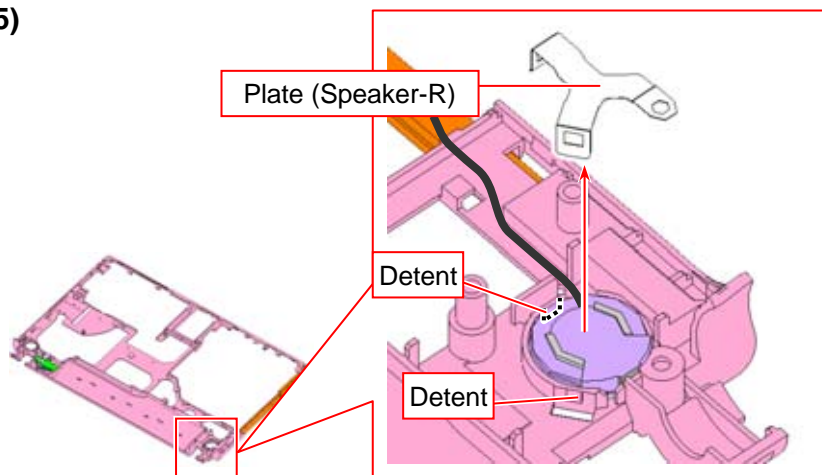
Parts of the Frame (Palmrest) -2

4)



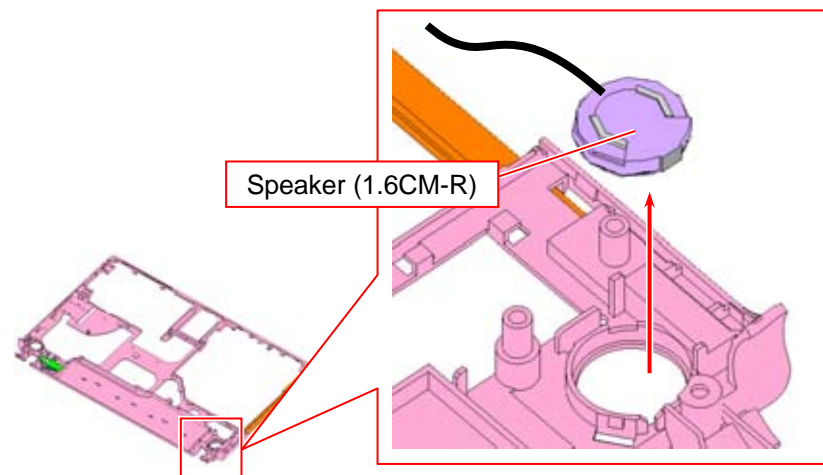
Release the Harness from the detent (four places).

5)



Disengage the detent (two places) from the Plate (Speaker-R), and remove the Plate.

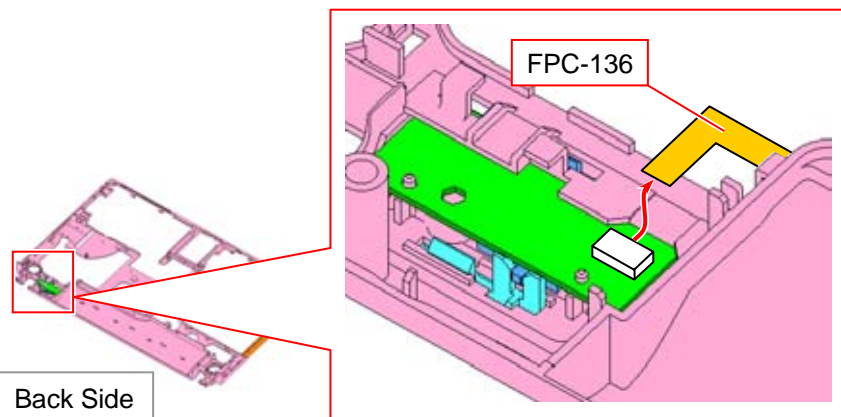
6)



Remove the Speaker (1.6CM-R).

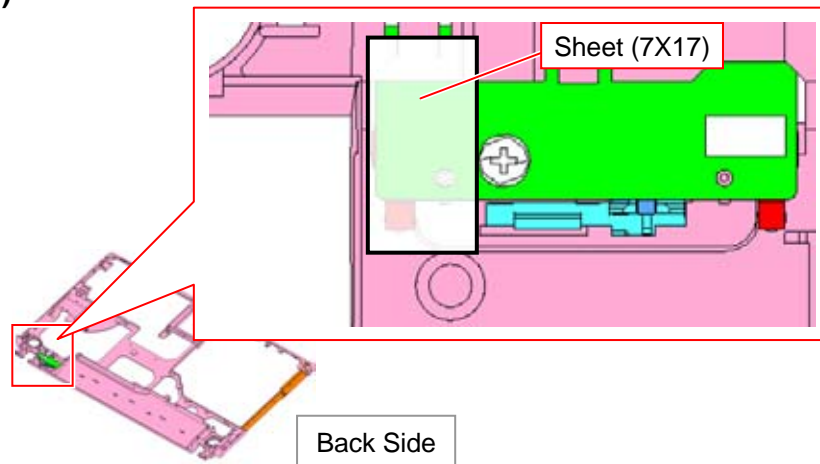
Parts of the Frame (Palmrest) -3

7)



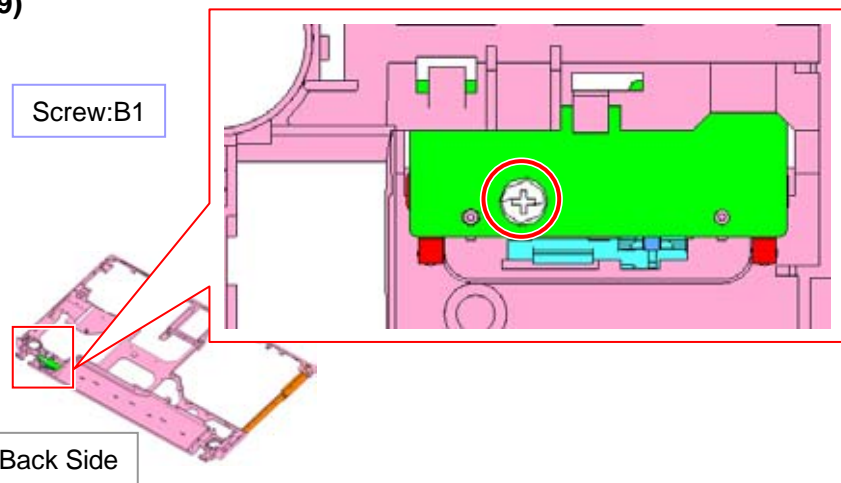
Disconnect the FPC.

8)



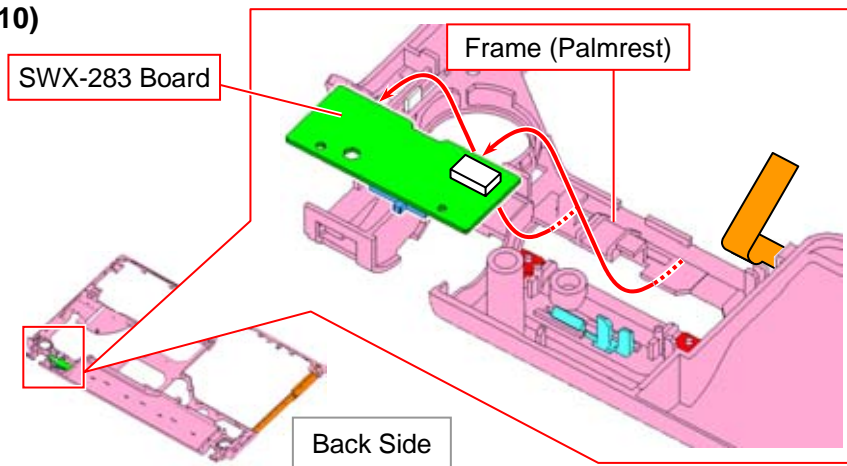
Peel off the Sheet (7X17).

9)



Remove the screw.

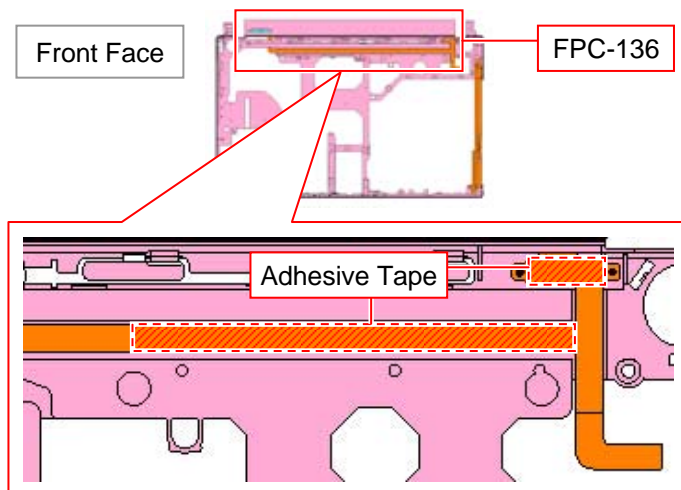
10)



Remove the SWX Board.

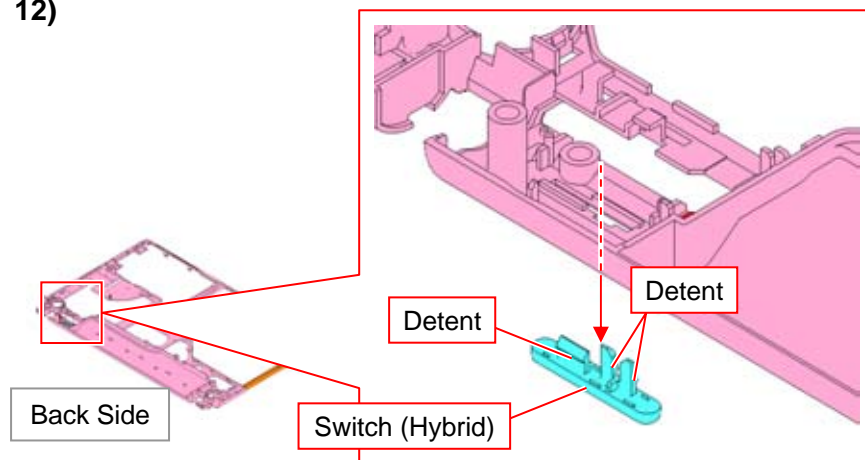
Parts of the Frame (Palmrest) -4

11)



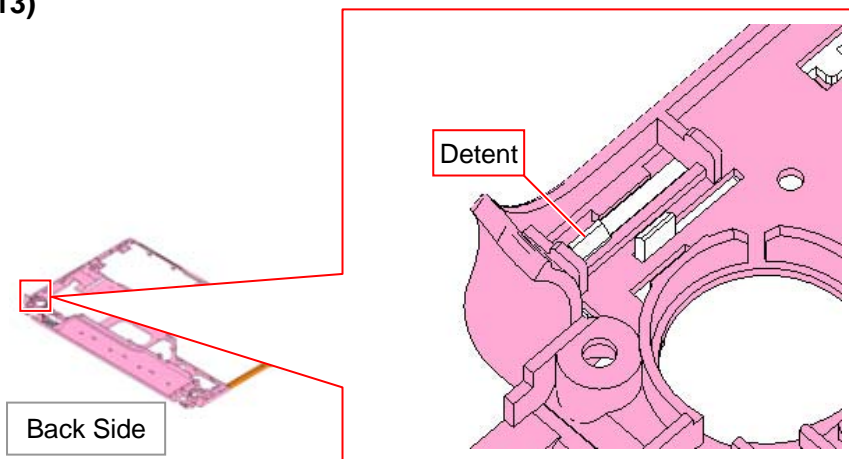
Peel off the FPC from adhesive tape (two places) and remove it.

12)



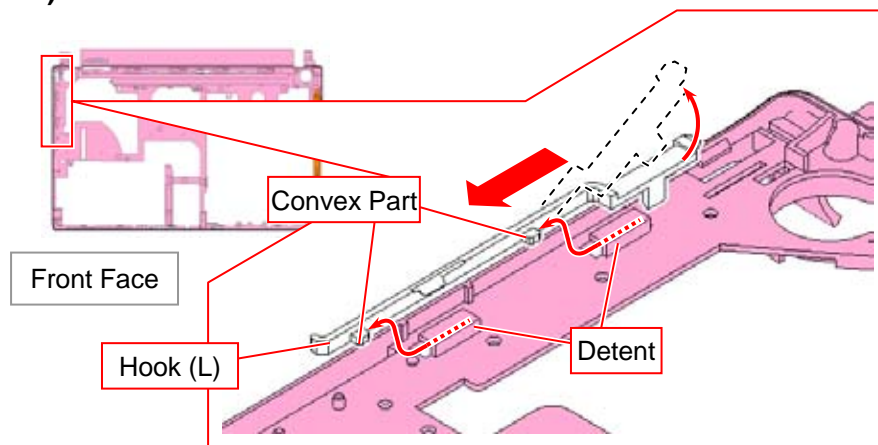
While disengaging the detent (three places), remove the Switch (Hybrid).

13)



Disengage the detent (one place).

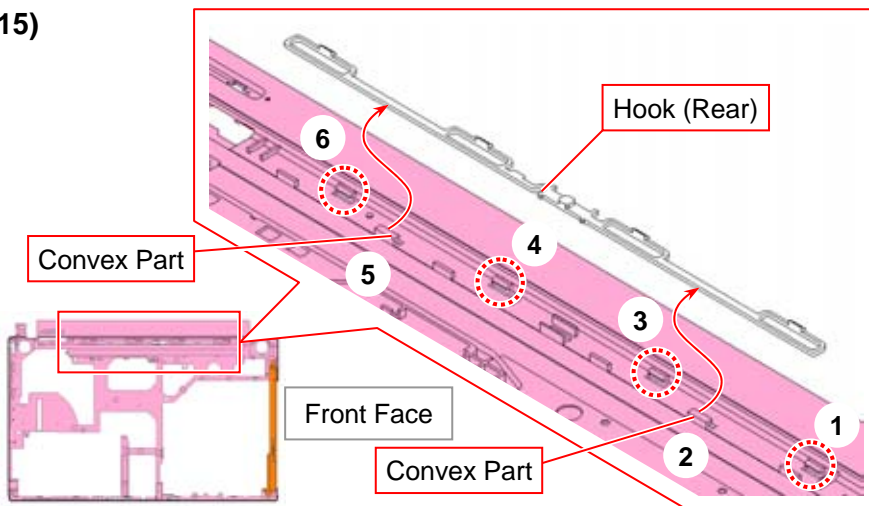
14)



Slide the Hook (L) to the front side from the front surface while bowing it and release the convex part (two places) from the detent (two places).

Parts of the Frame (Palmrest) -5

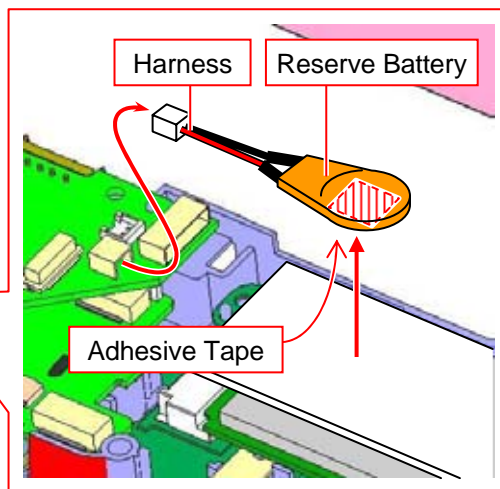
15)



Release the Hook (Rear) from the detent (four places) and the convex part (two places) in order.

Reserve Battery

1)



Disconnect the Harness and remove the Reserve Battery.

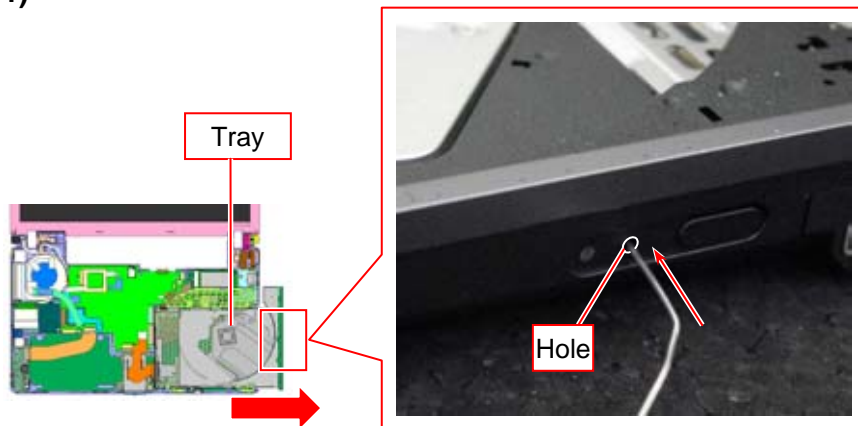
* Adhesive tape is attached on the back side.

Optical Disc Drive (Super Multi)

ODD (Super Multi - Except U-CTO or L-CTO) Model

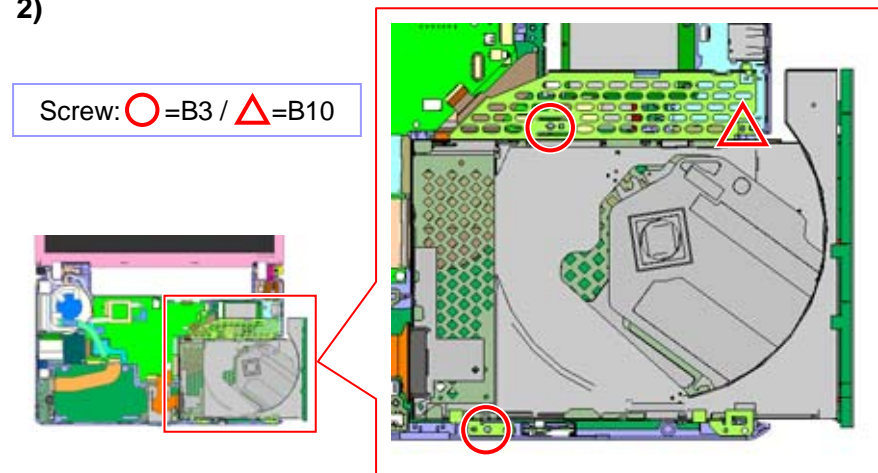
⚠️ [MA]

1)



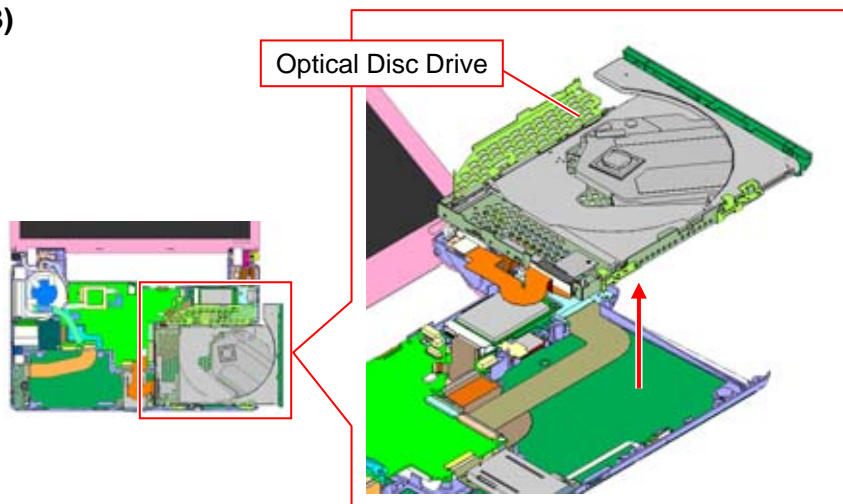
Insert a thin tool into the hole of the Bezel and draw out the tray.

2)



Remove the three screws.

3)



Remove the Optical Disc Drive.

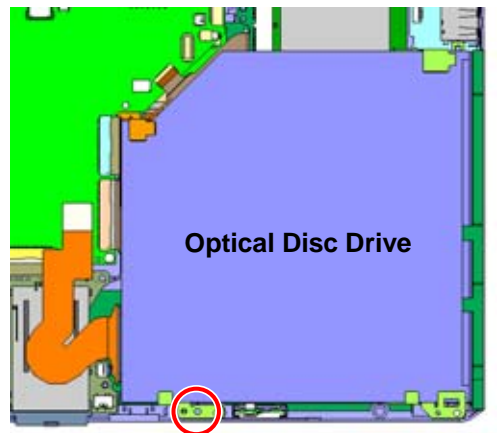
Optical Disc Drive (Blu-ray)

ODD (Blu-ray - Except U-CTO or L-CTO) Model



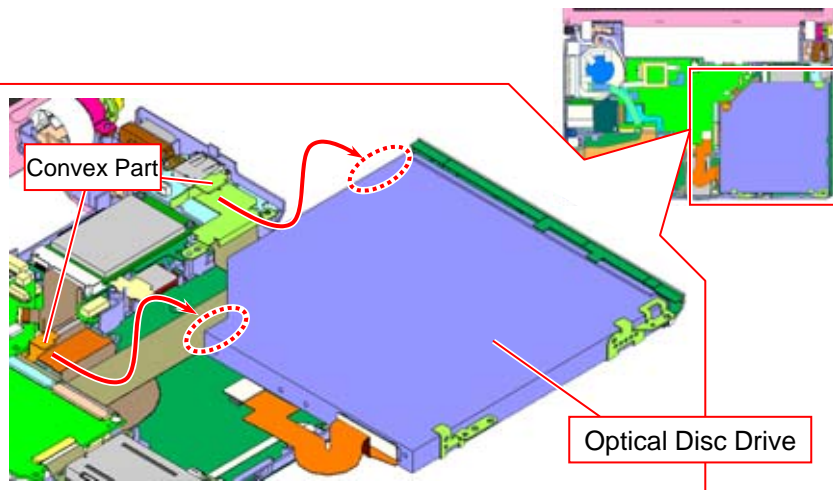
1)

Screw:B3



Remove the screw.

2)



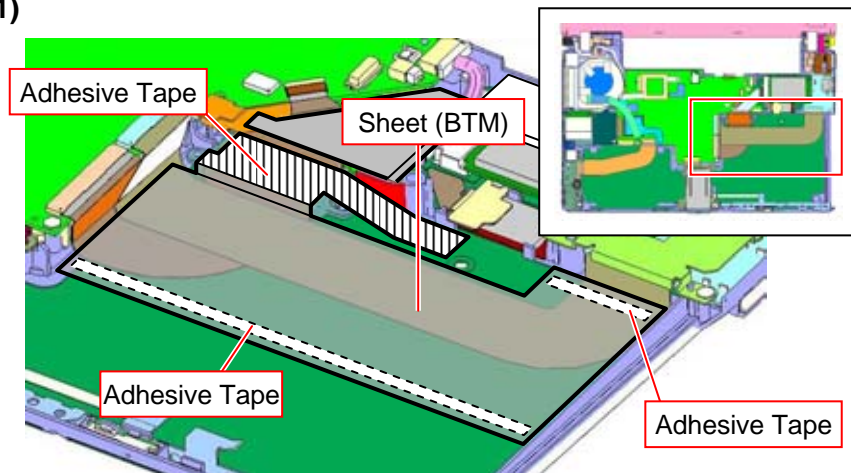
While removing the dotted line part (two places) from under the convex part (two places), remove the Optical Disc Drive.

Sheet (BTM/Dock)

U-CTO or L-CTO Model



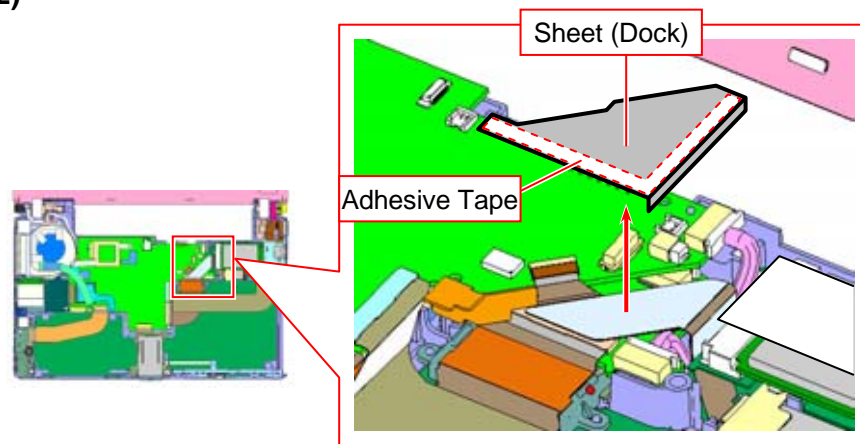
1)



Peel off the Sheet (BTM).

* Adhesive tape (three places) is attached on the back side.

2)



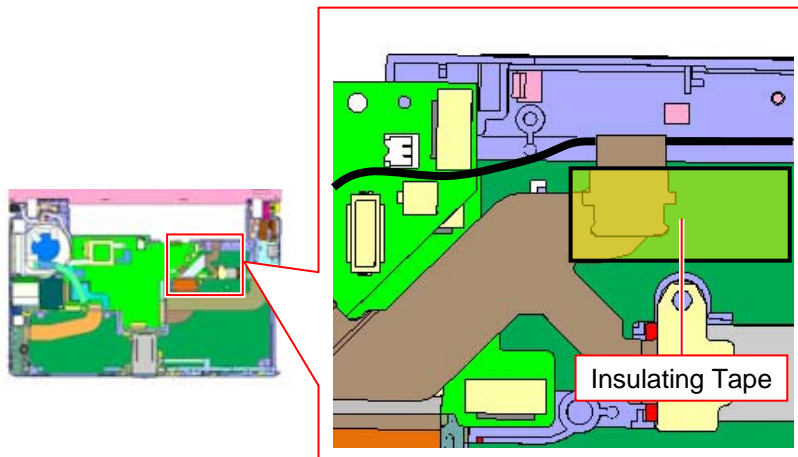
Peel off the Sheet (Dock).

* Adhesive tape (one place) is attached on the back side.

Insulating Tape

No-WAN Model

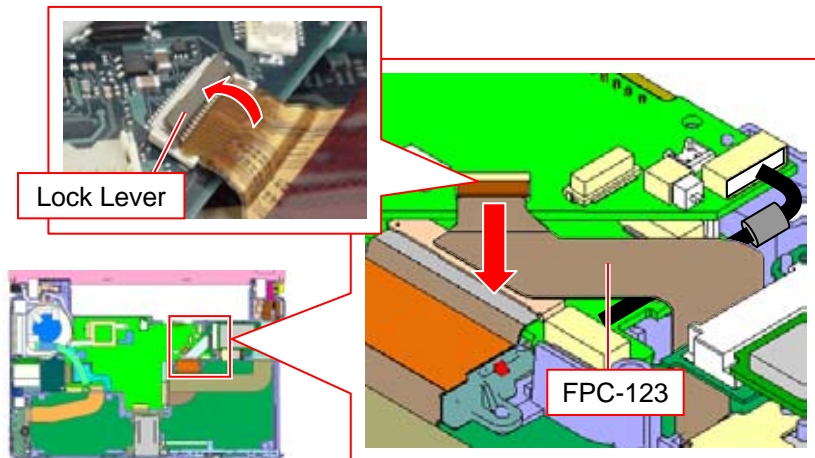
1)



Peel off the Insulating Tape.

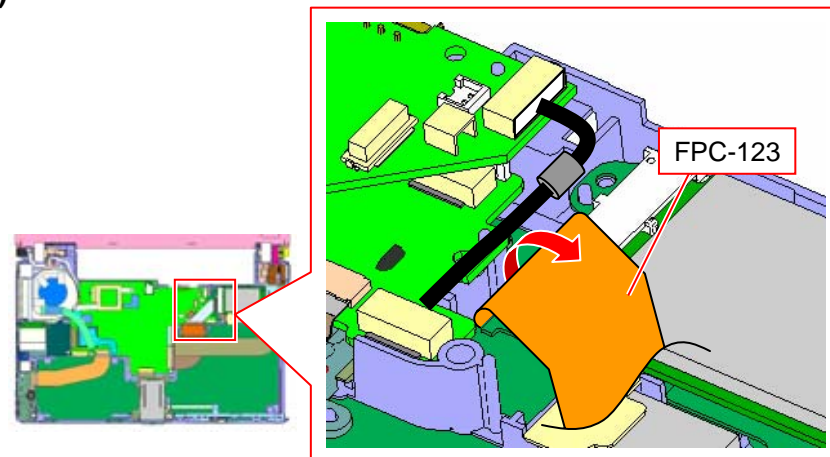
Harness (Power)

1)



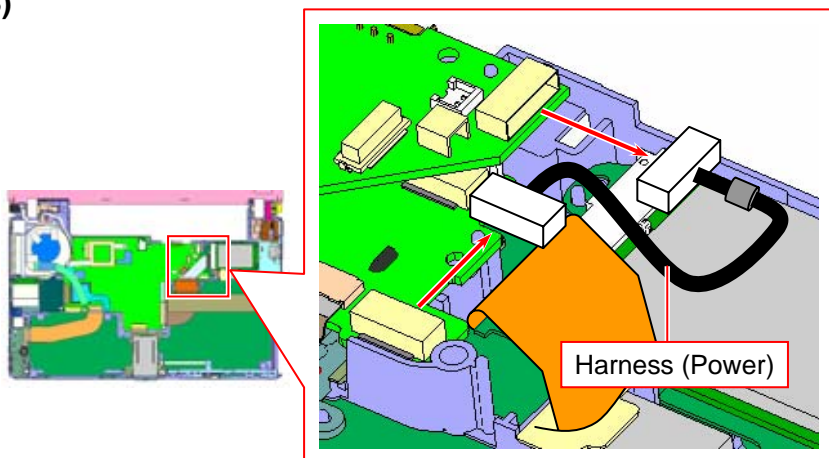
Raise the lock lever to release the lock and disconnect the FPC.

2)



Put aside the FPC in the direction of the arrow.

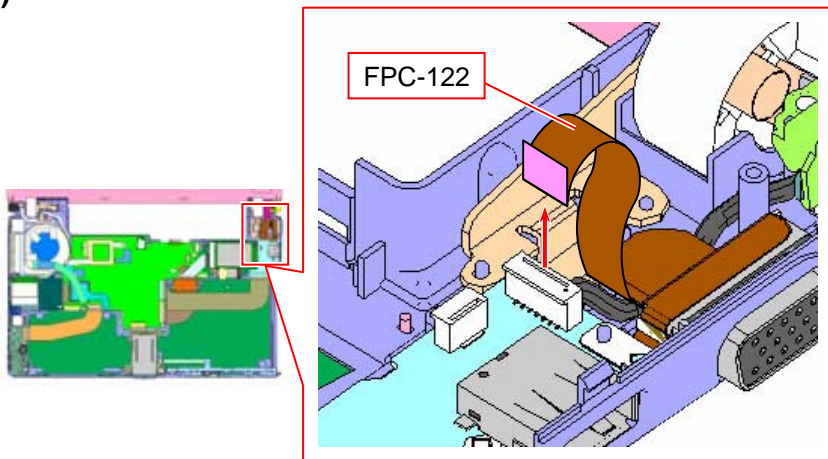
3)



Disconnect the Harness (Power) (disconnect the two connectors.).

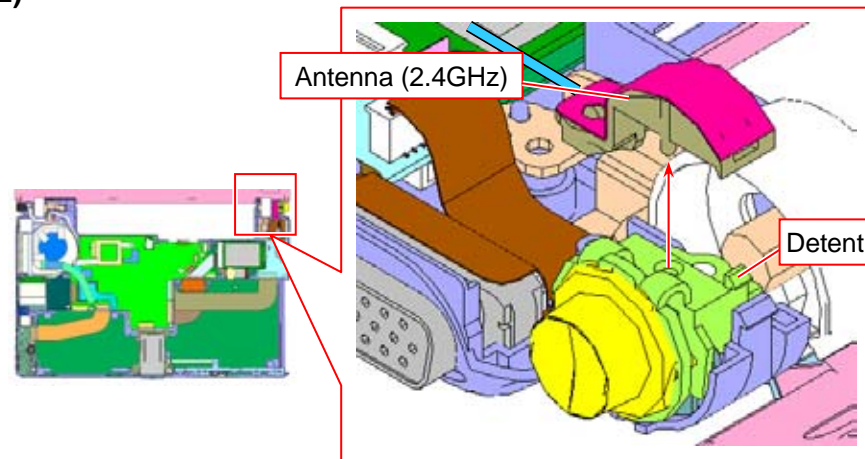
Antenna (2.4GHz)

1)



Disconnect the FPC.

2)

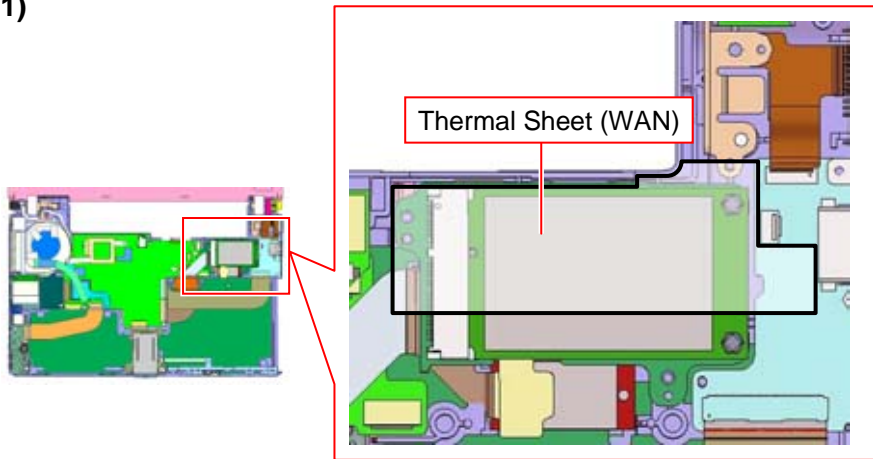


Remove the Antenna (2.4GHz) while disengaging the detent (one place).

Card (EVDO/HSDPA)

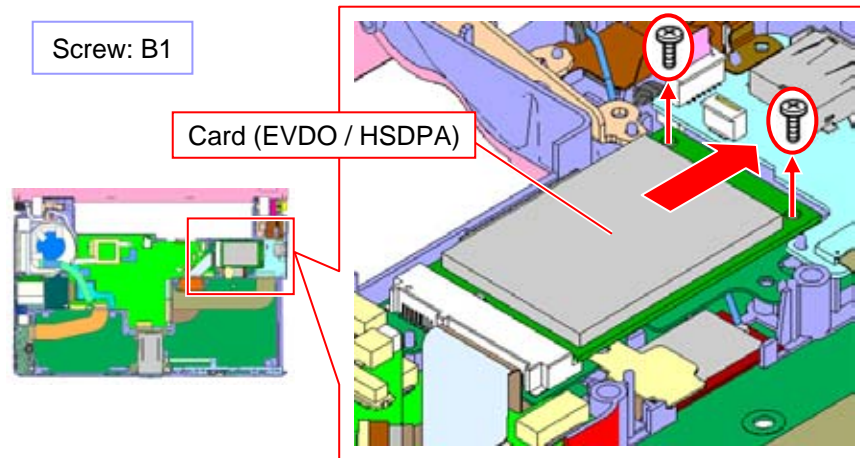
WAN Model

1)



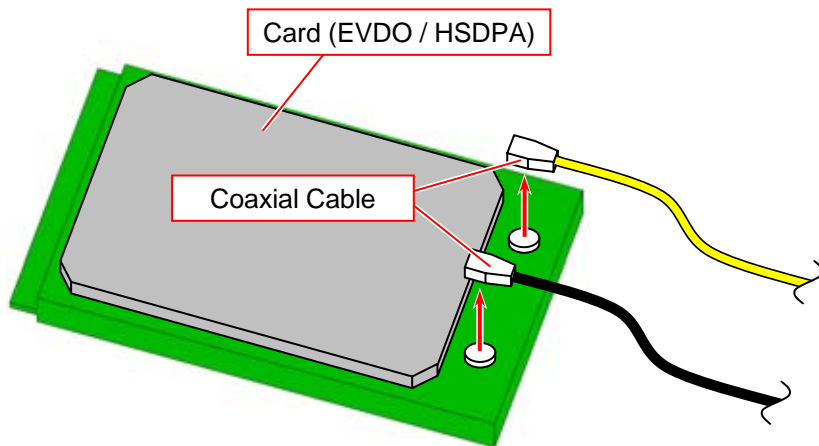
Peel off the Thermal Sheet (WAN).

2)



Remove the two screws and remove the Card (EVDO / HSDPA).

3)

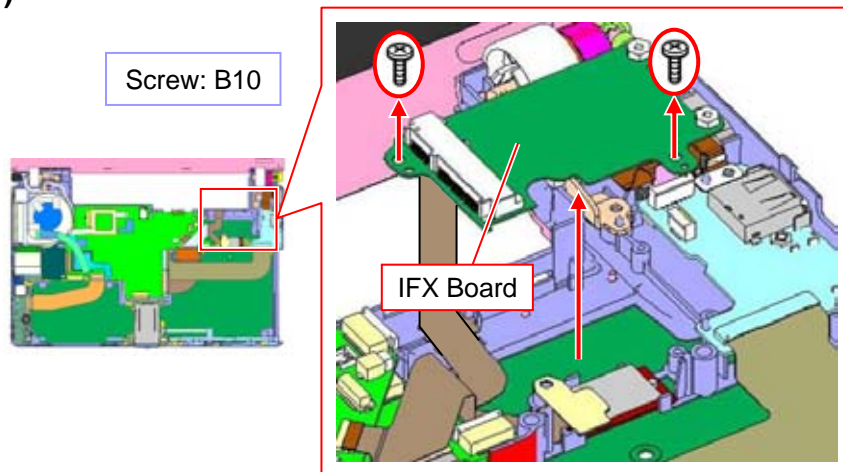


Disconnect the coaxial cable (two places) vertically.

IFX-498 Board, Ferrite Sheet (CPU)

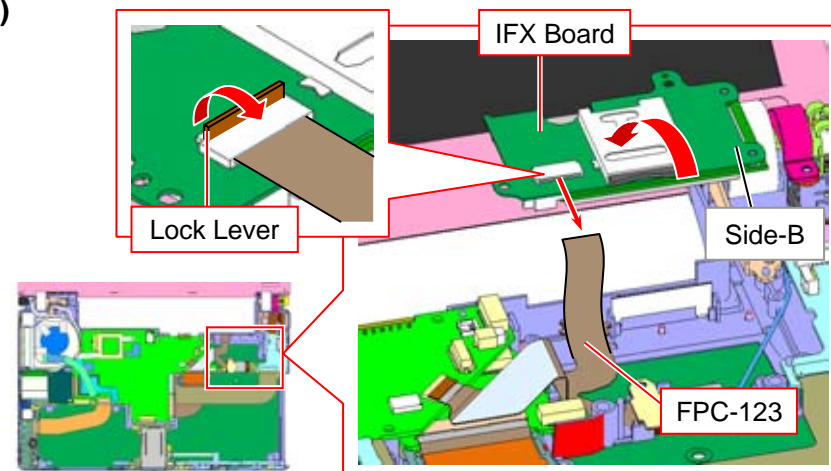
WAN Model

1)



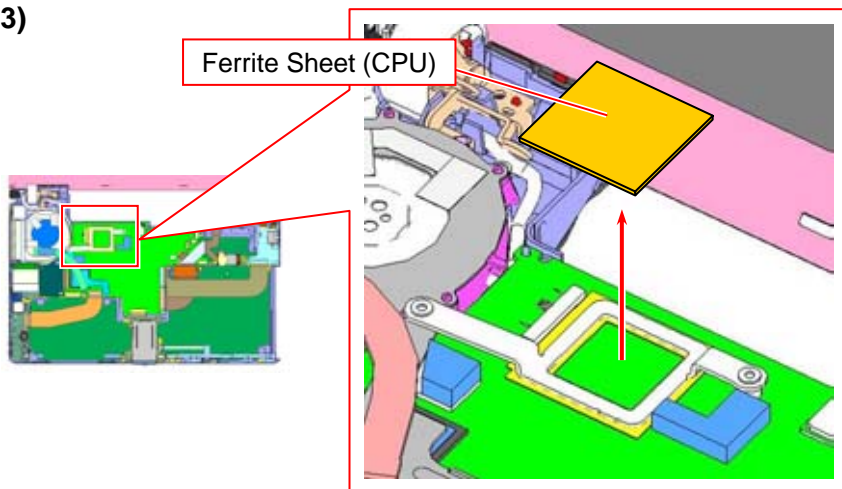
Remove the two screws and remove the IFX Board.

2)



Turn over the IFX Board toward the rear, raise the lock lever to release the lock, and disconnect the FPC.

3)

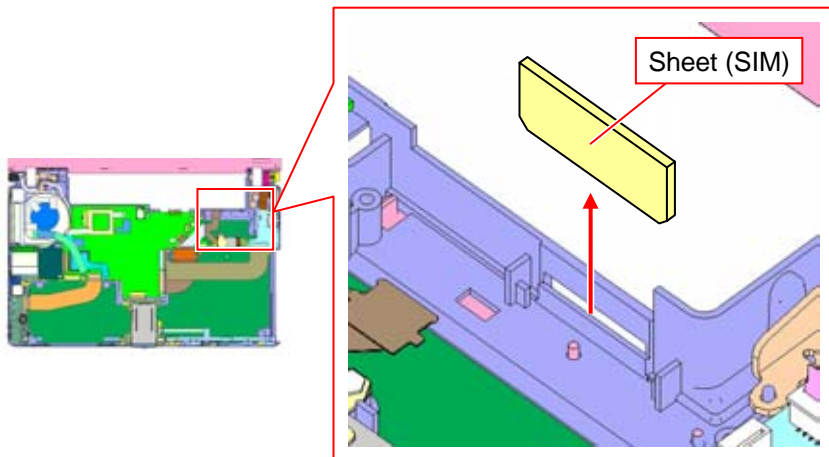


Peel off the Ferrite Sheet (CPU).

Sheet (SIM)

Except WAN (HSDPA) Model

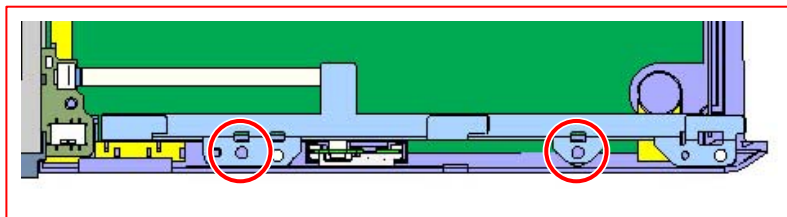
1)



Remove the Sheet (SIM).

Bracket (ODD F-U)**U-CTO or L-CTO Model**

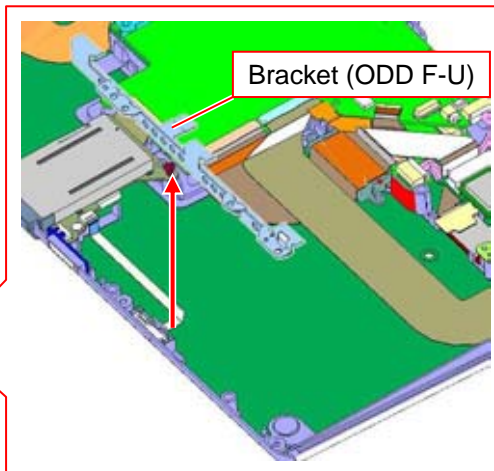
1)



Screw: B3

Remove the two screws.

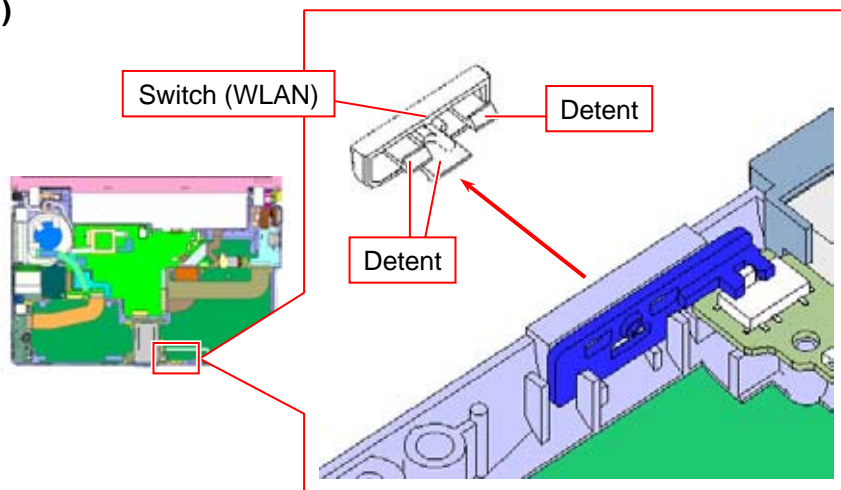
2)



Remove the Bracket (ODD F-U).

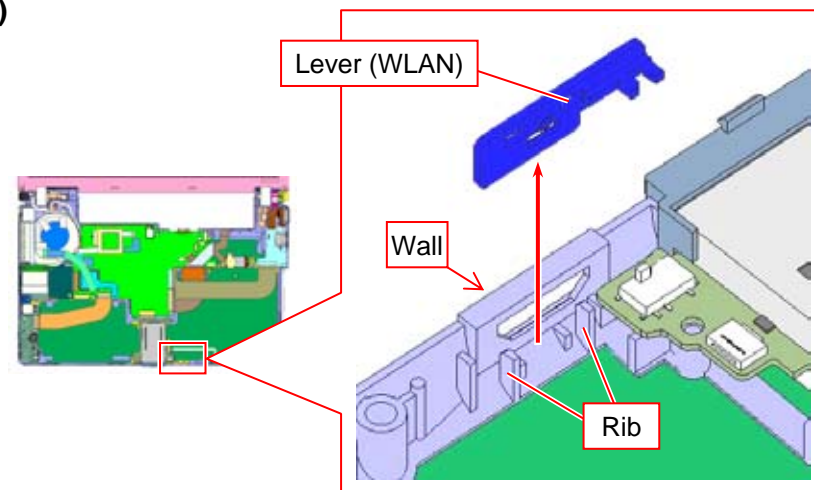
Switch (WLAN)

1)



While disengaging the detent (three places), remove the Switch (WLAN).

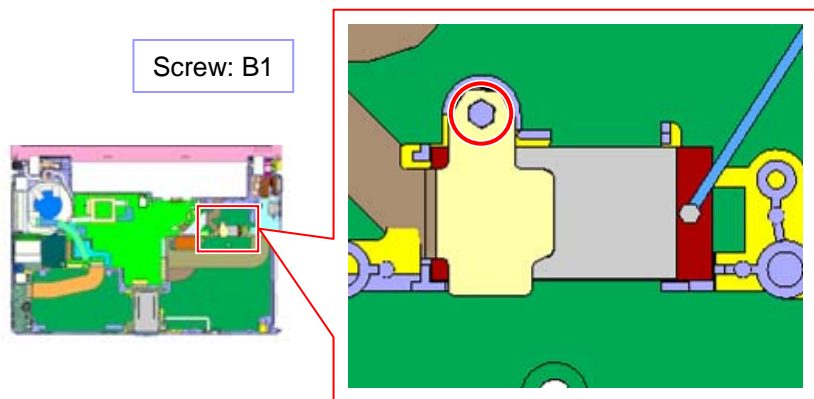
2)



Remove the Lever (WLAN).

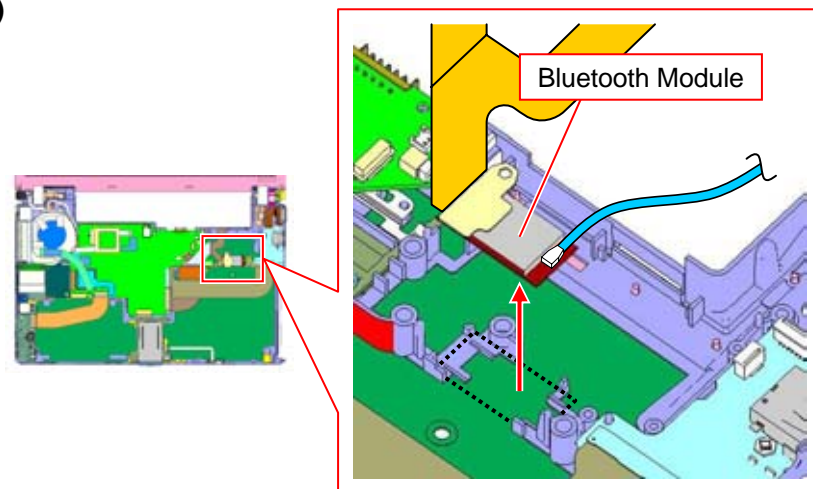
Bluetooth Module

1)



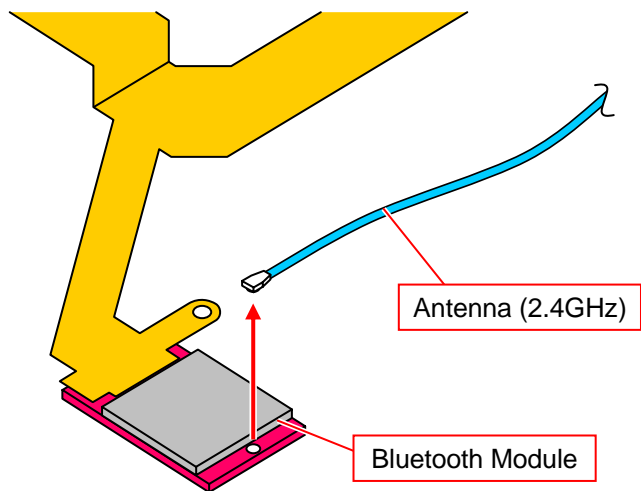
Remove the screw.

2)



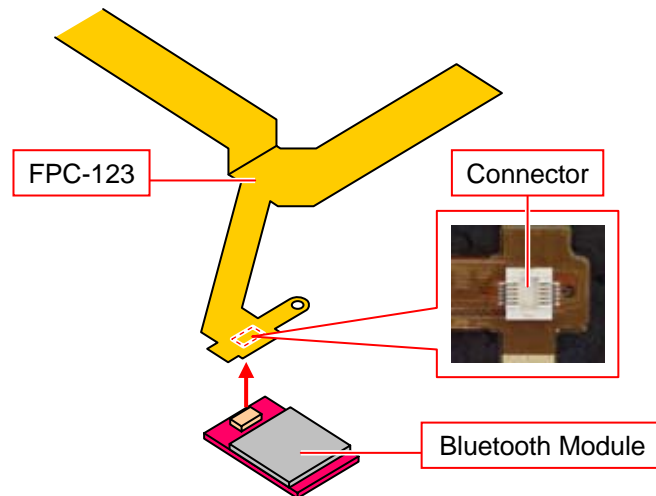
Remove the Bluetooth Module.

3)



Disconnect the Antenna (2.4GHz) vertically.

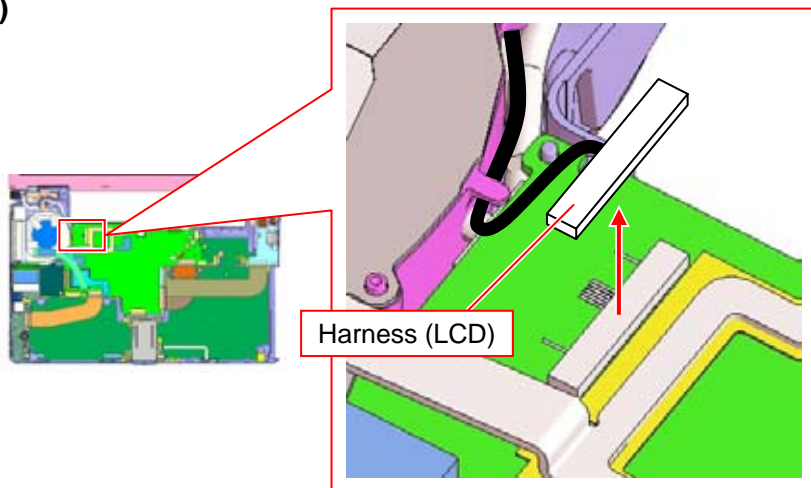
4)



Disconnect the FPC.

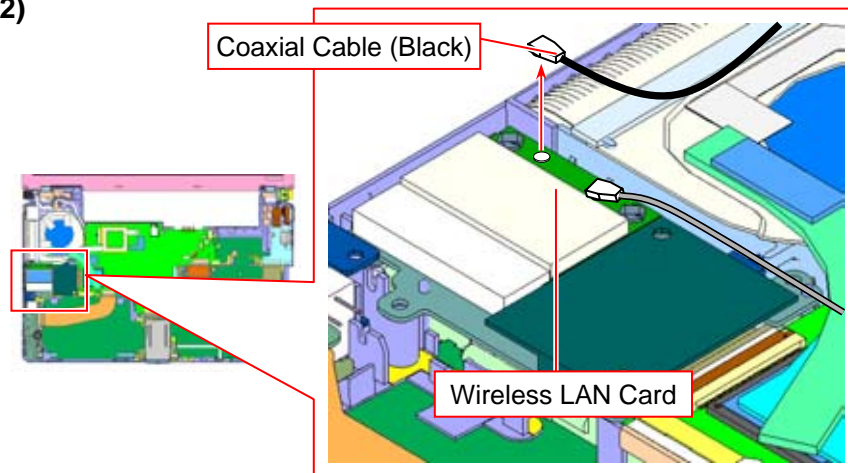
LCD -1

1)



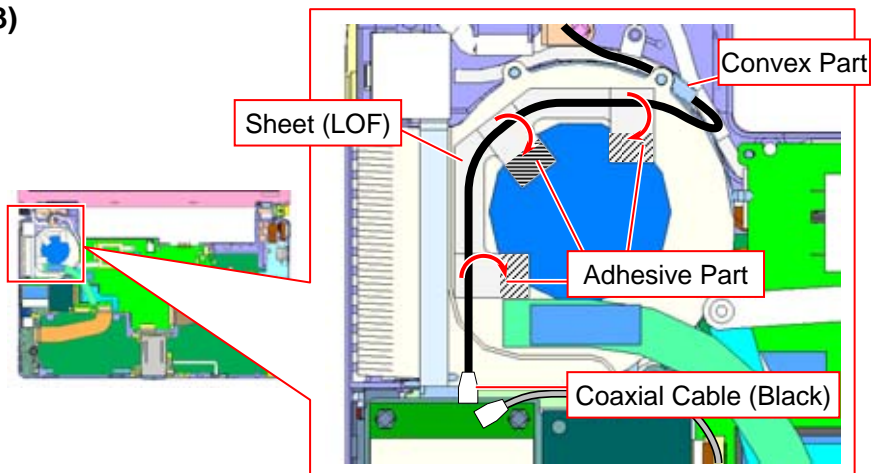
Disconnect the Harness (LCD).

2)



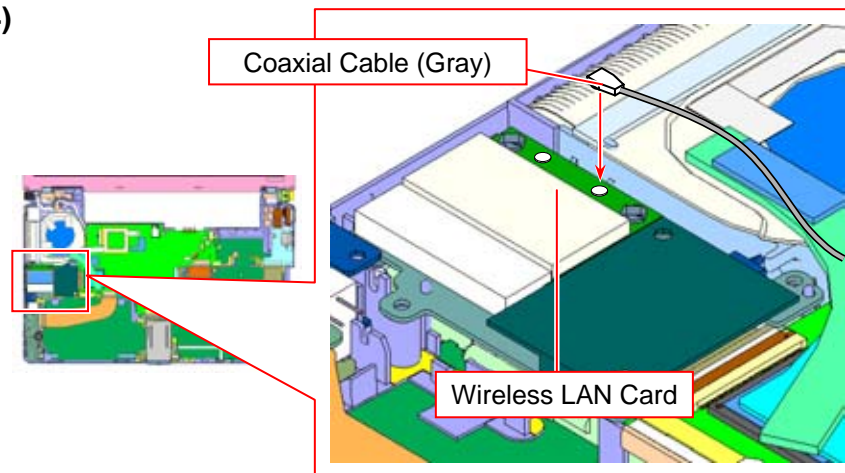
Disconnect the coaxial cable (black) vertically.

3)



Open the adhesive part of the Sheet (LOF) (three places) and release the coaxial cable (black) from under the convex part and release it from the bottom section.

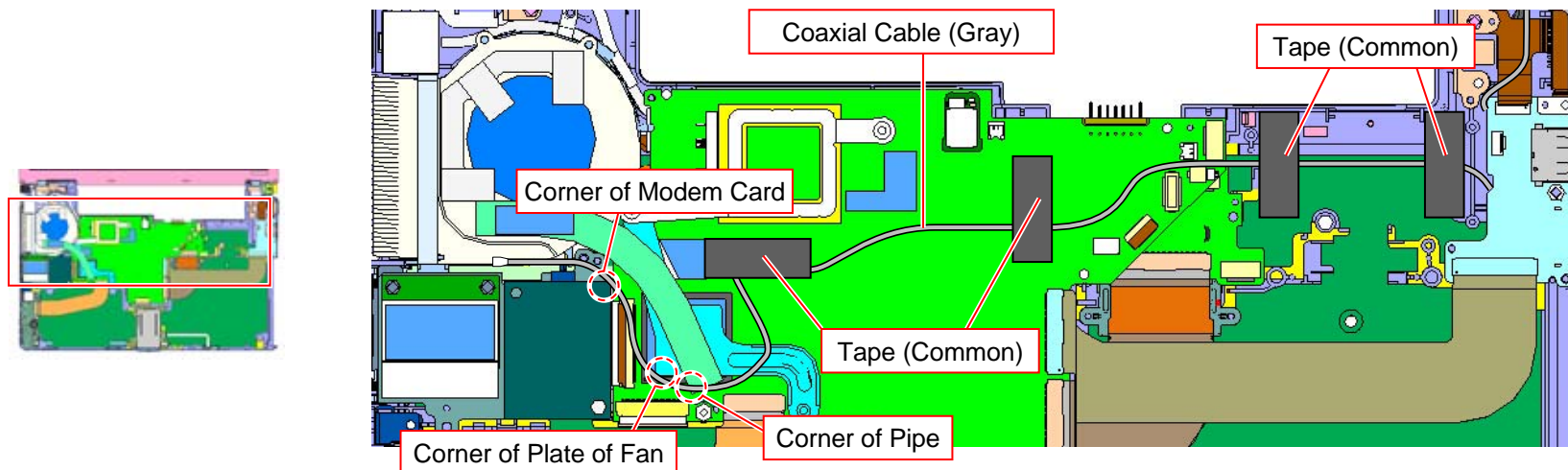
4)



Disconnect the coaxial cable (gray) vertically.

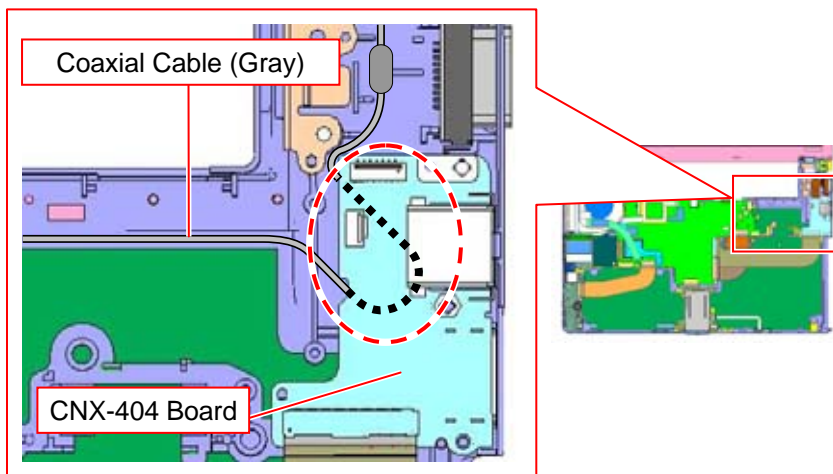
LCD -2

5)



Peel off the Tape (Common) (four places), and release the coaxial cable (gray) from the corner (three places).

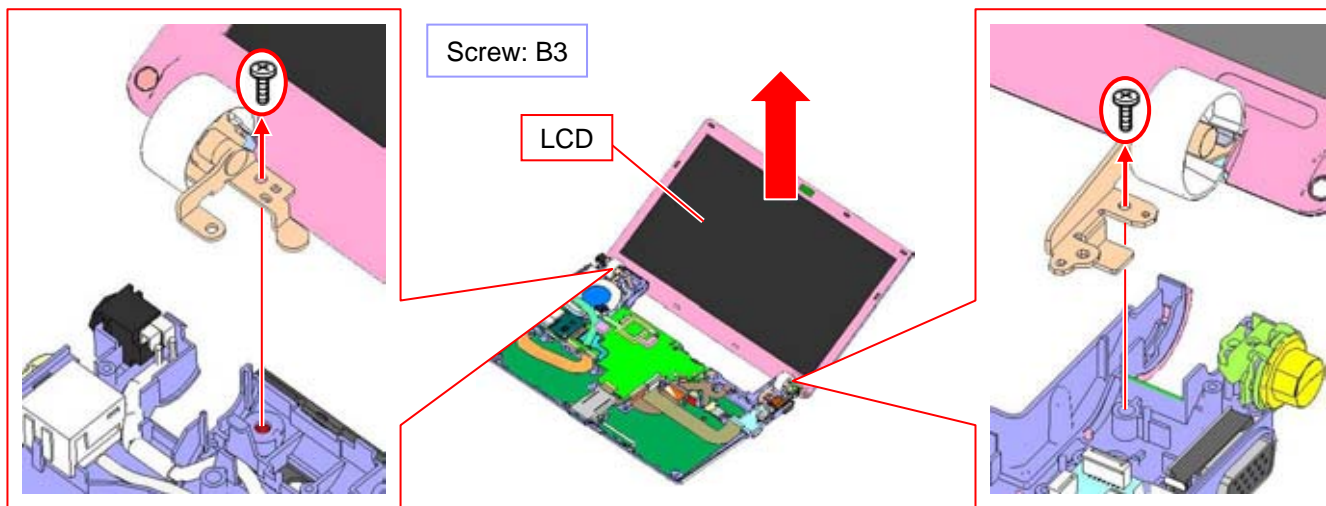
6)



Take out the coaxial cable (gray) from under the CNX Board.

LCD -3

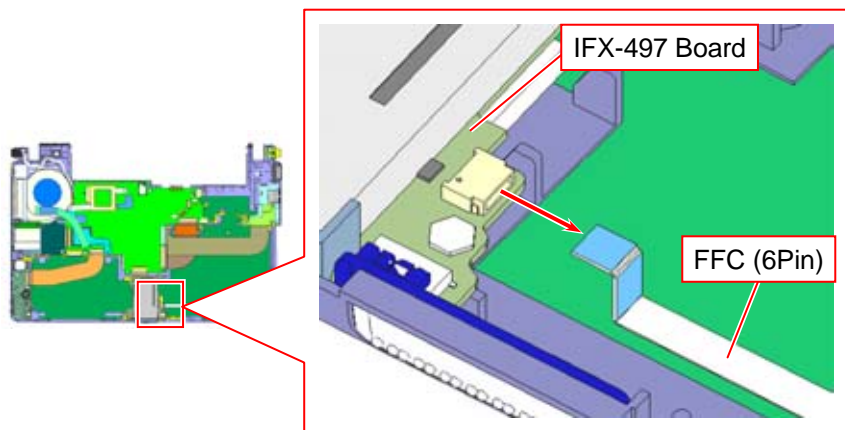
7)



Remove the two screws and remove the LCD.

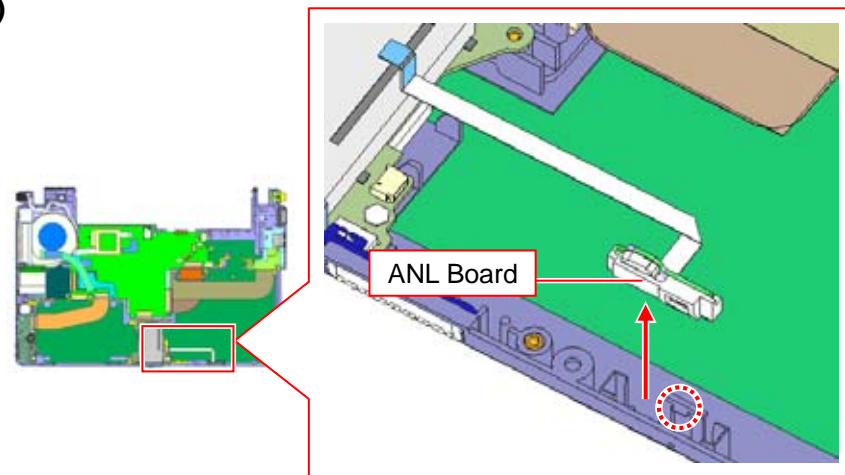
ANL-90 Board

1)



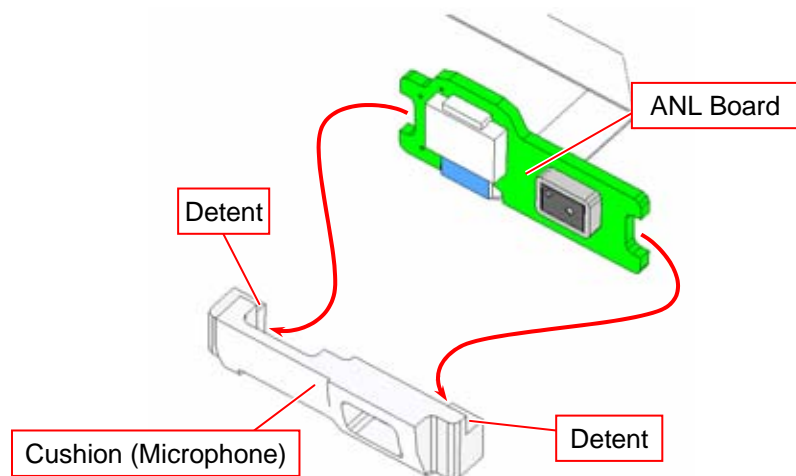
Disconnect the FFC.

2)



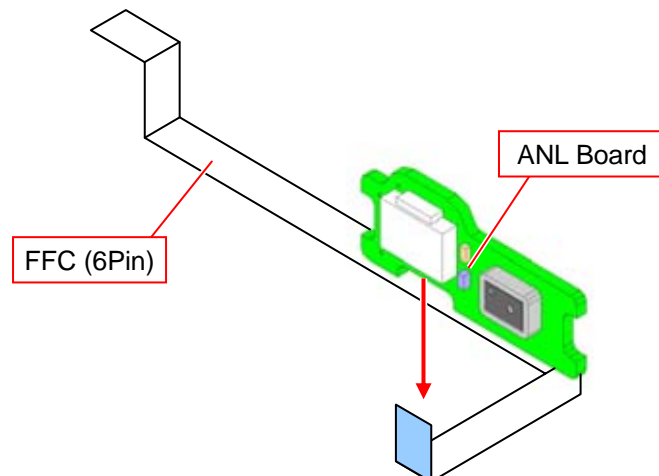
Disengage the detent (one place) and remove the ANL Board.

3)



Remove the Cushion (Microphone), while disengaging the detent (two places).

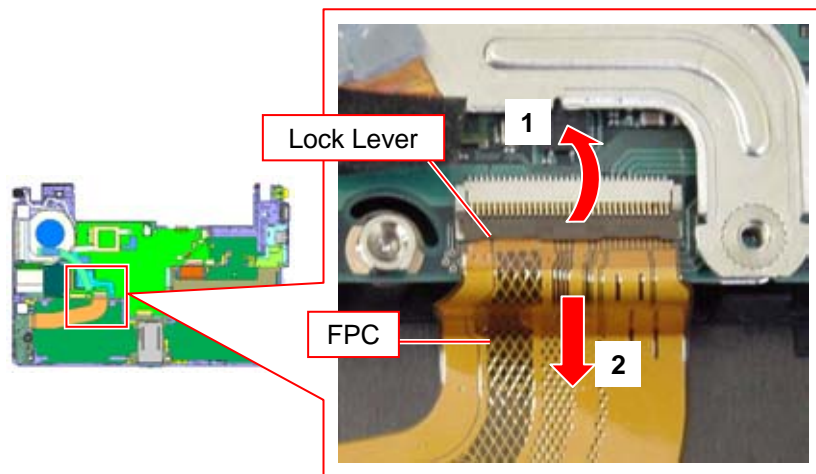
4)



Disconnect the FFC.

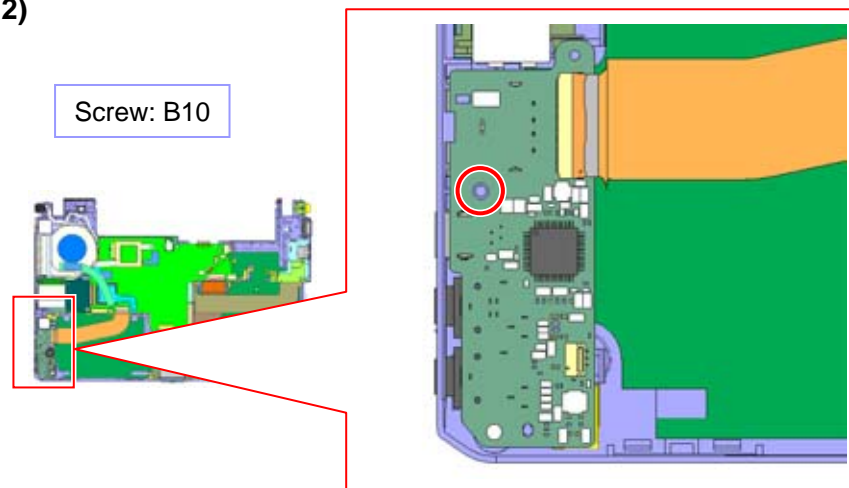
IFX-496 Board

1)



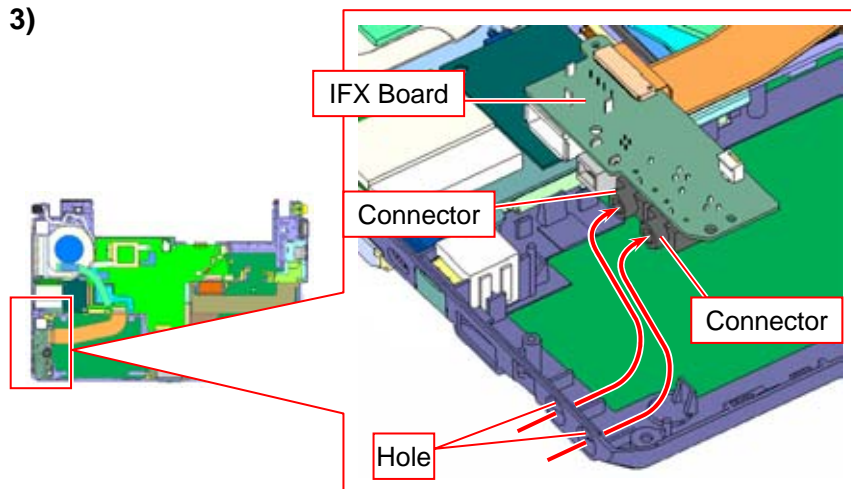
Raise the lock lever to release the lock and disconnect the FPC.

2)



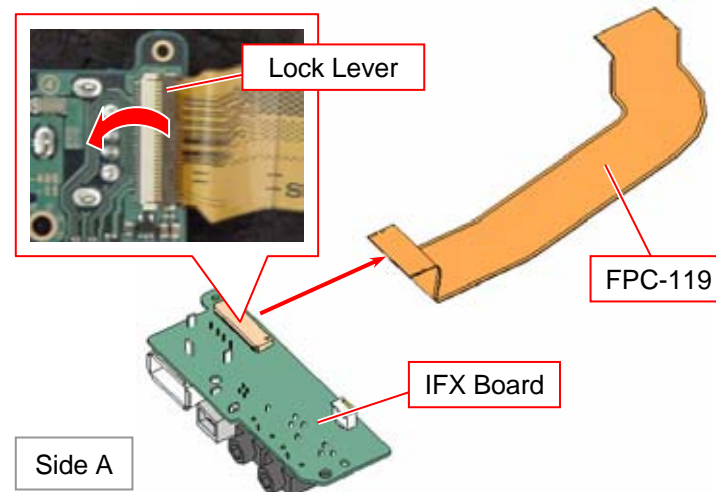
Remove the screw.

3)



Remove the IFX Board while releasing the connector (two places) from the hole (two places).

4)



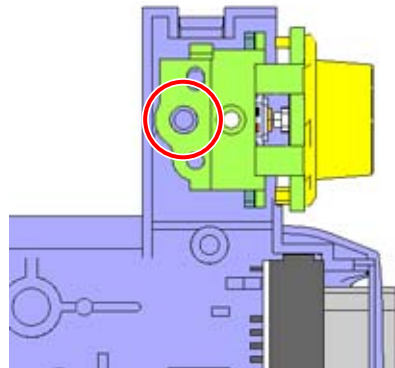
Side A

Raise the lock lever to release the lock and disconnect the FPC.

Button (Power)

1)

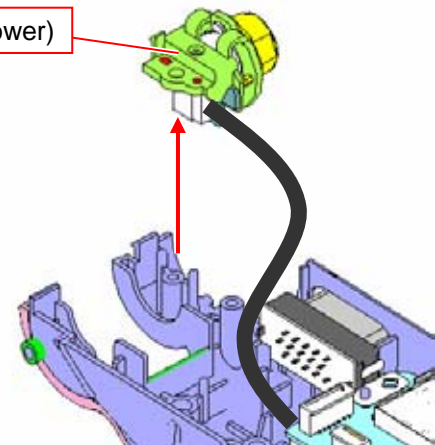
Screw: B10



Remove the screw.

2)

Button (Power)



Remove the Button (Power).

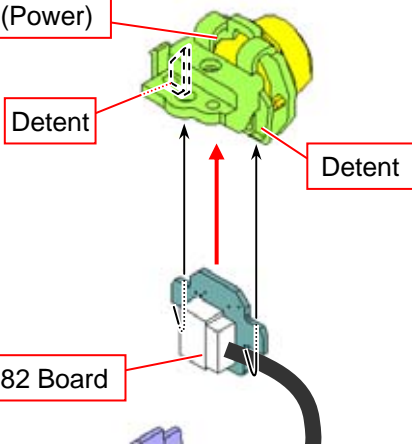
3)

Button (Power)

Detent

Detent

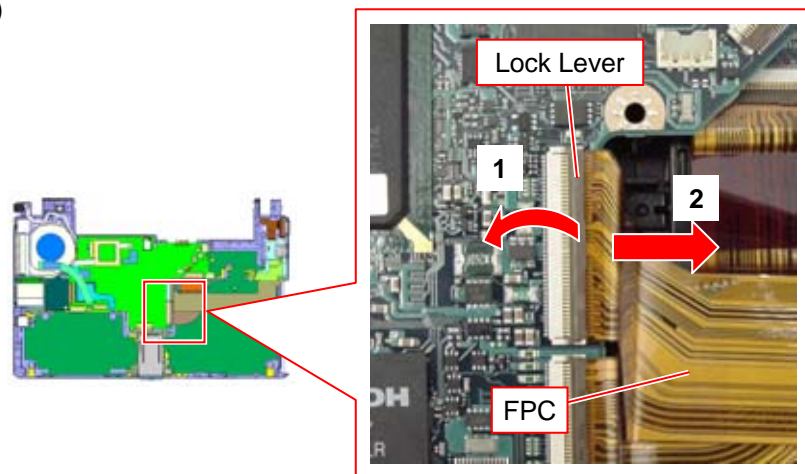
SWX-282 Board



While disengaging the detent (two places), remove the Button (Power).

CNX-404 Board -1

1)



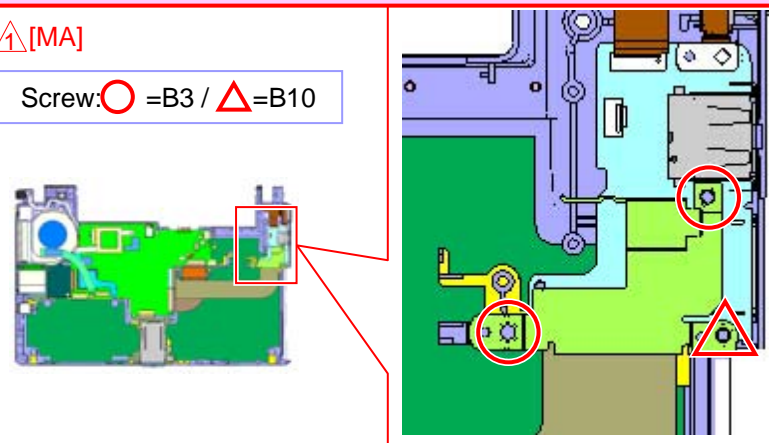
Raise the lock lever to release the lock and disconnect the FPC.

2)

ODD (Blu-ray) or ODD (Super Multi - U-CTO or L-CTO) Model

⚠ [MA]

Screw: ○ = B3 / △ = B10



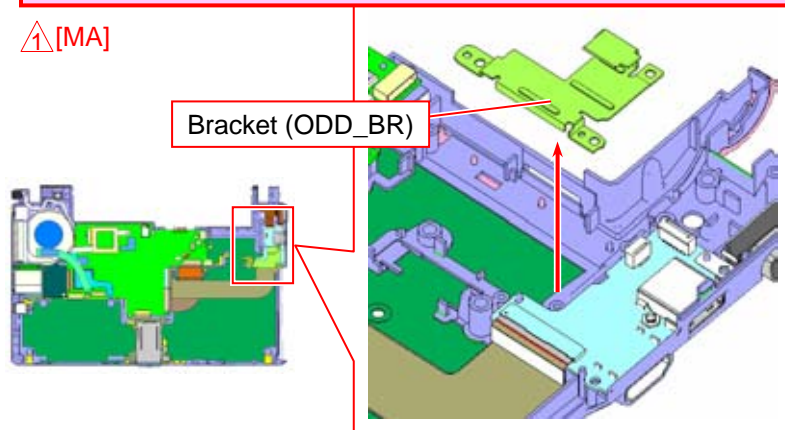
Remove the three screws.

3)

ODD (Blu-ray) or ODD (Super Multi - U-CTO or L-CTO) Model

⚠ [MA]

Bracket (ODD_BR)



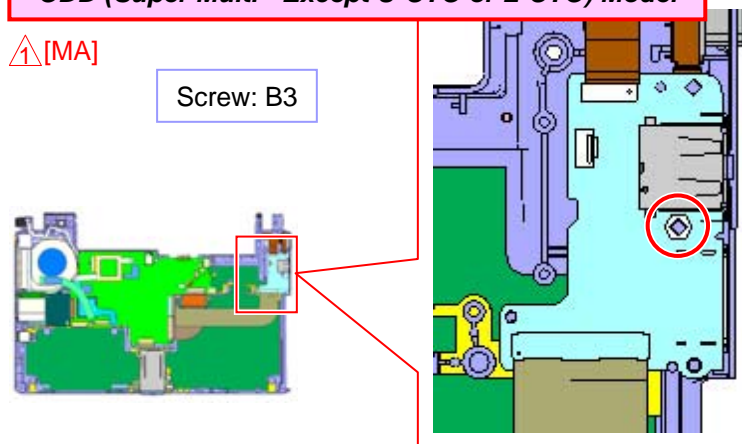
Remove the Bracket (ODD_BR).

4)

ODD (Super Multi - Except U-CTO or L-CTO) Model

⚠ [MA]

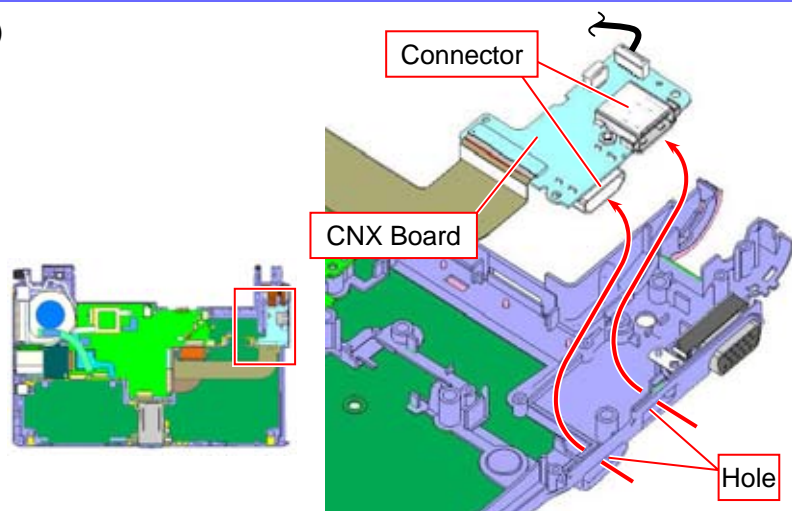
Screw: B3



Remove the screw.

CNX-404 Board -2

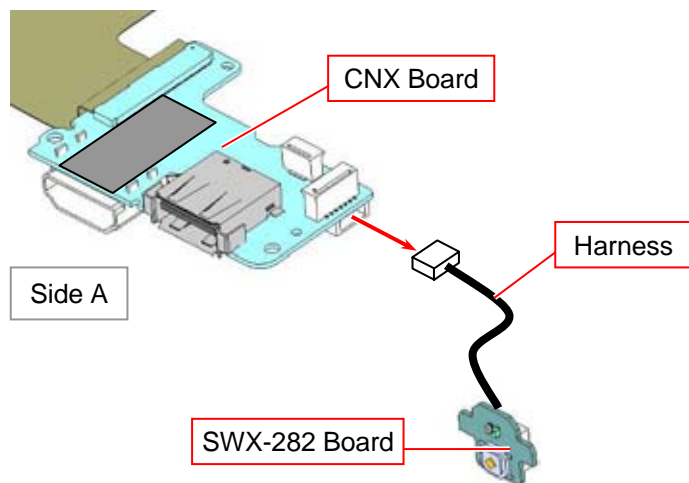
5)



Remove the CNX Board while releasing the connector (two places) from the hole (two places).

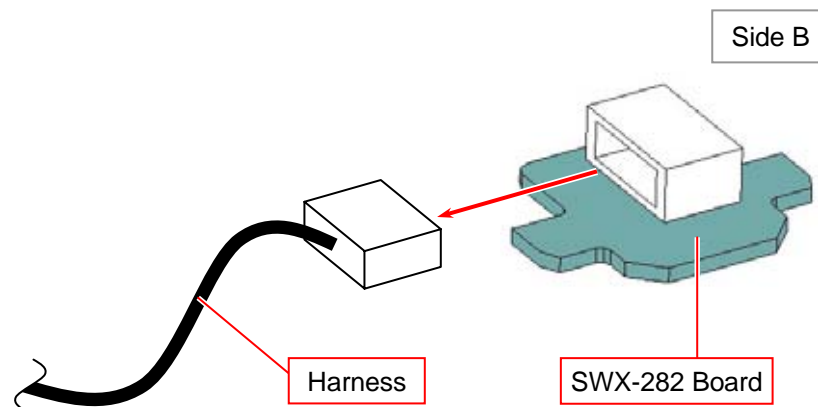
Parts of the CNX-404 Board

1)



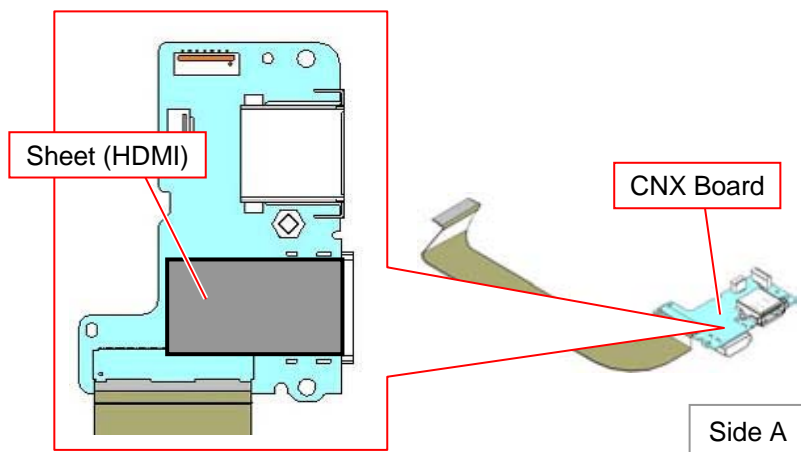
Disconnect the Harness coming from the SWX Board.

2)



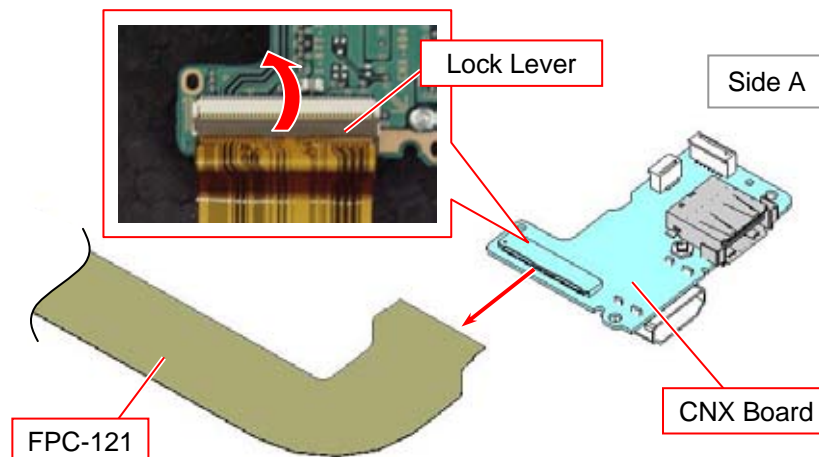
Disconnect the Harness.

3)



Peel off the Sheet (HDMI).

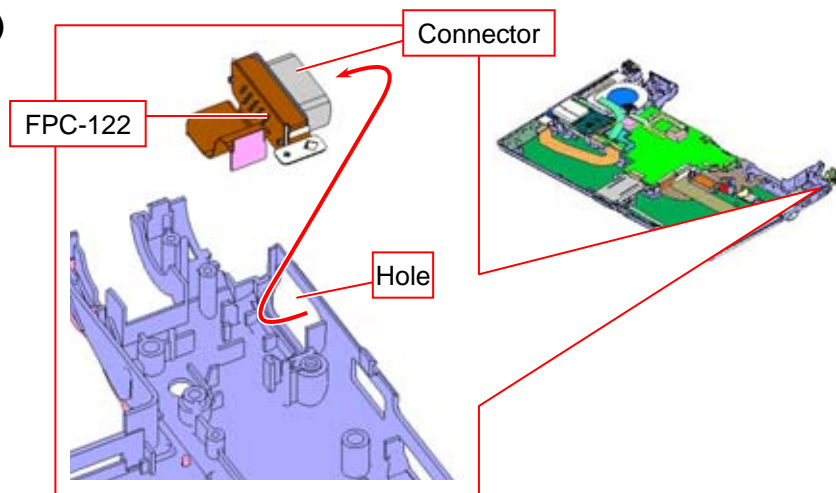
4)



Raise the lock lever to release the lock and disconnect the FPC.

FPC-122

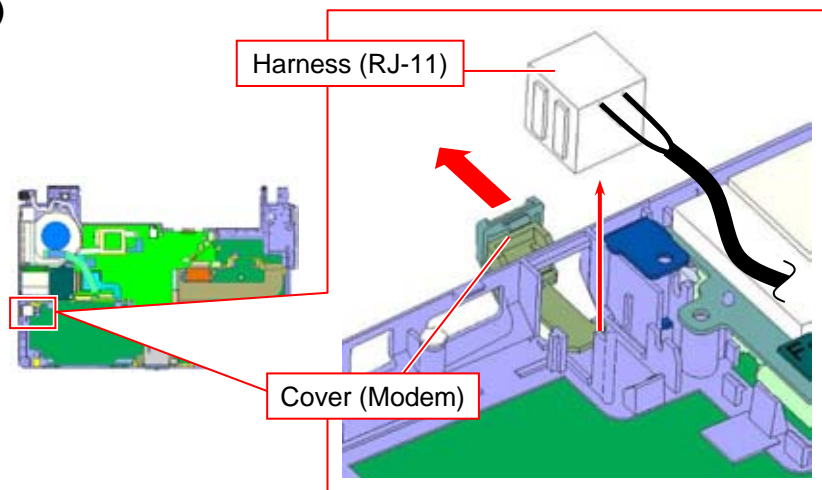
1)



While releasing the connector from the hole, remove the FPC.

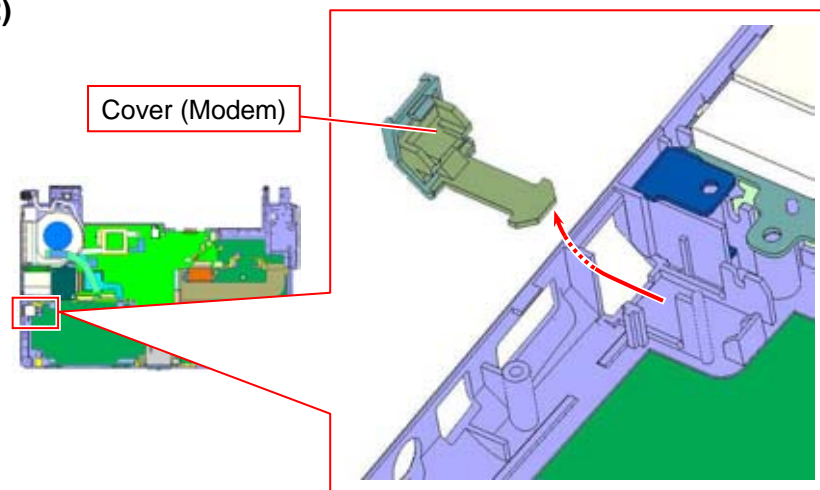
IFX-502 Board -1

1)



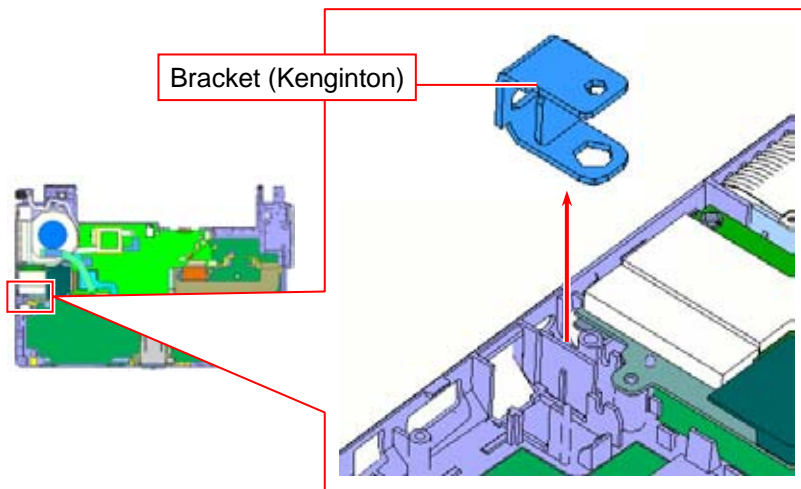
Open the Cover (Modem), and remove the Harness (RJ-11).

2)



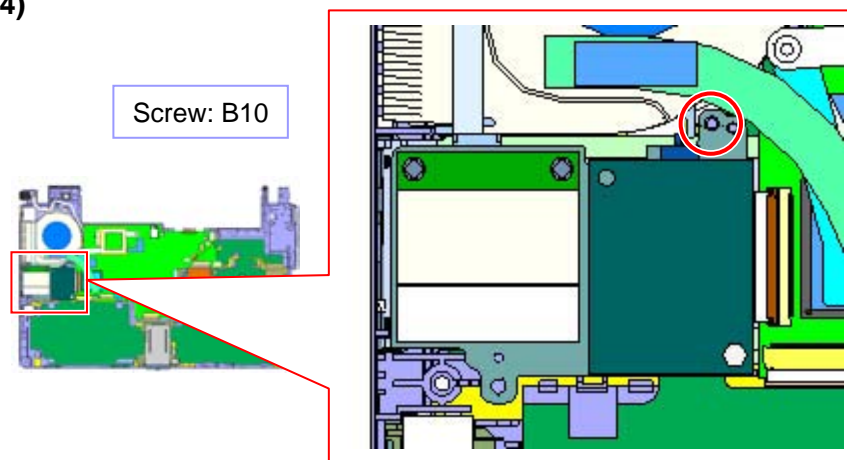
Remove the Cover (Modem).

3)



Remove the Bracket (Kenginton).

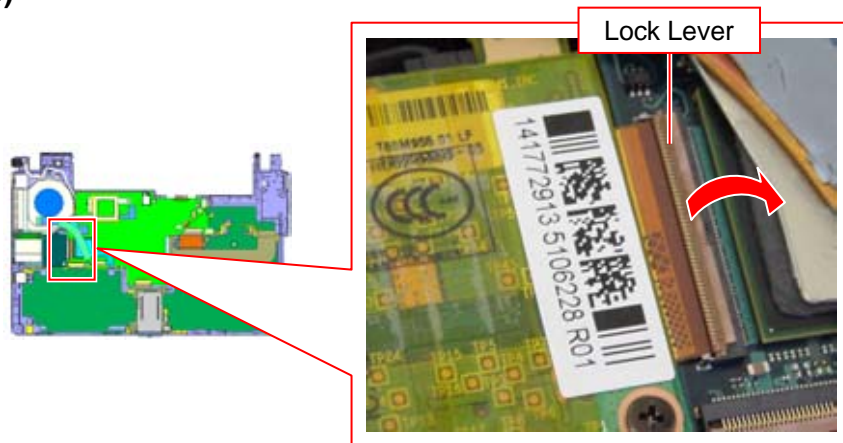
4)



Remove the screw.

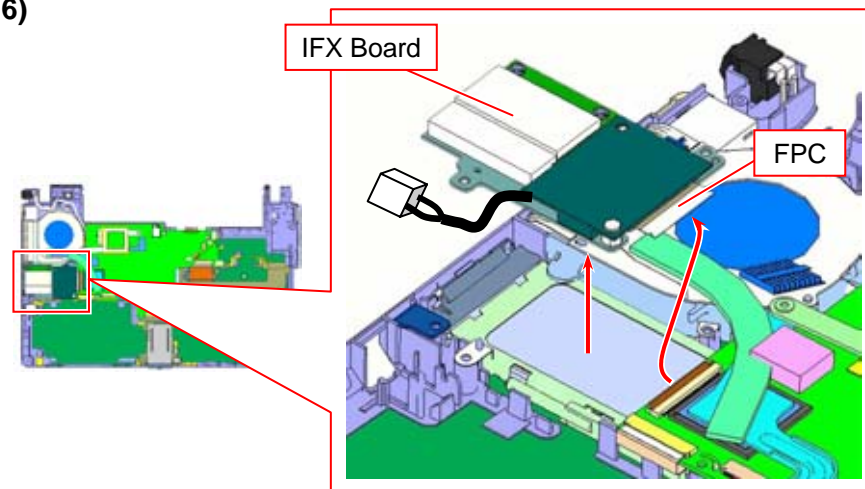
IFX-502 Board -2

5)



Raise the lock lever and release the lock.

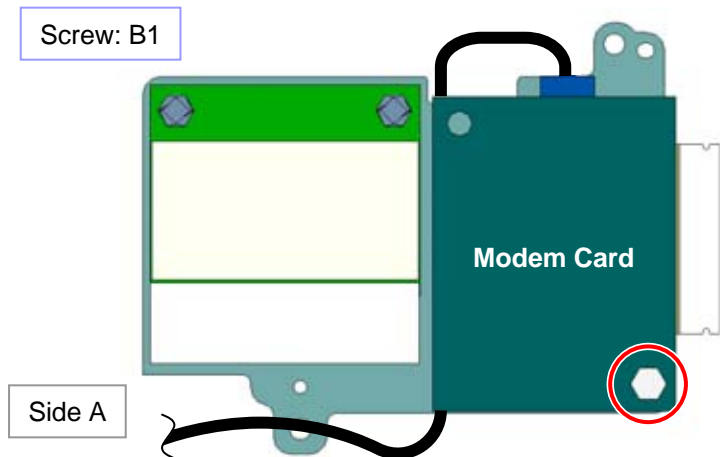
6)



Remove the IFX Board while disconnecting the FPC.

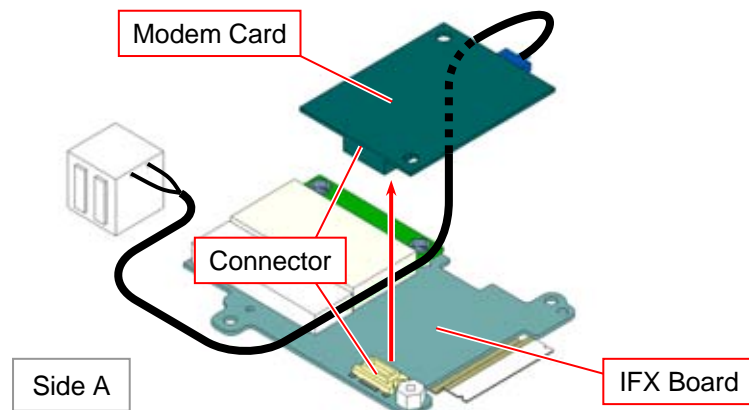
Parts of the IFX-502 Board

1)



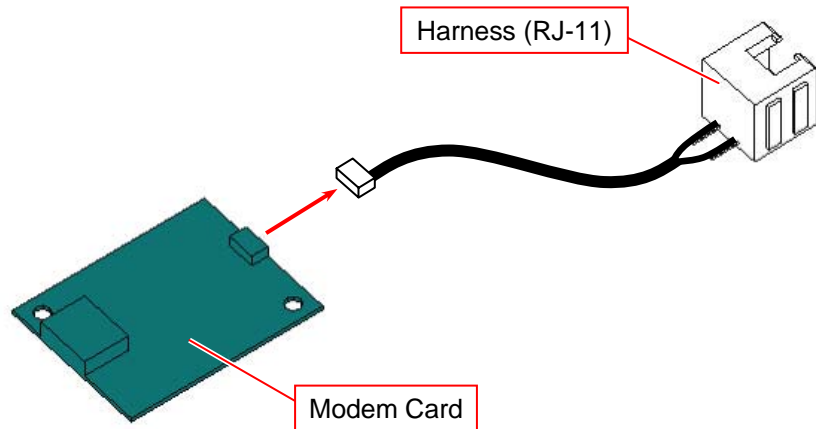
Remove the screw.

2)



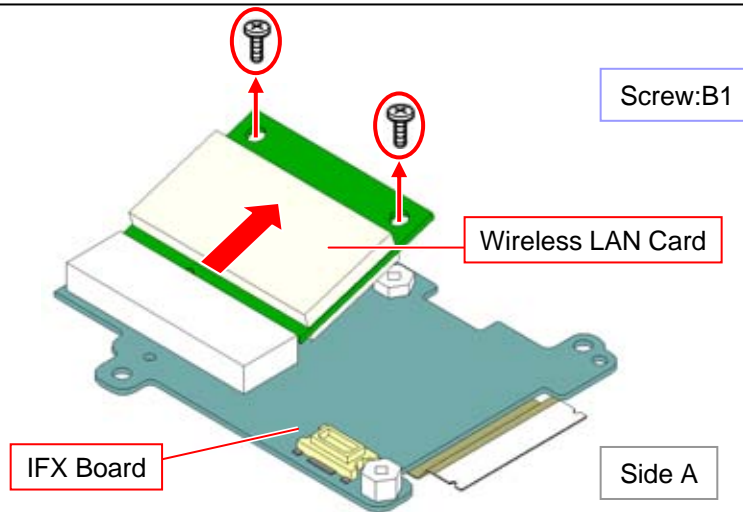
Disconnect the connector and remove the Modem Card.

3)



Disconnect the Harness (RJ-11).

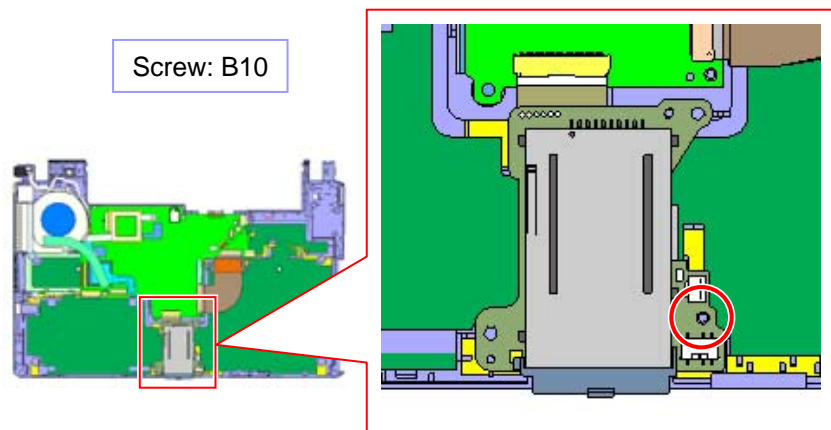
4)



Remove the two screws, and remove the Wireless LAN Card by pulling it out.

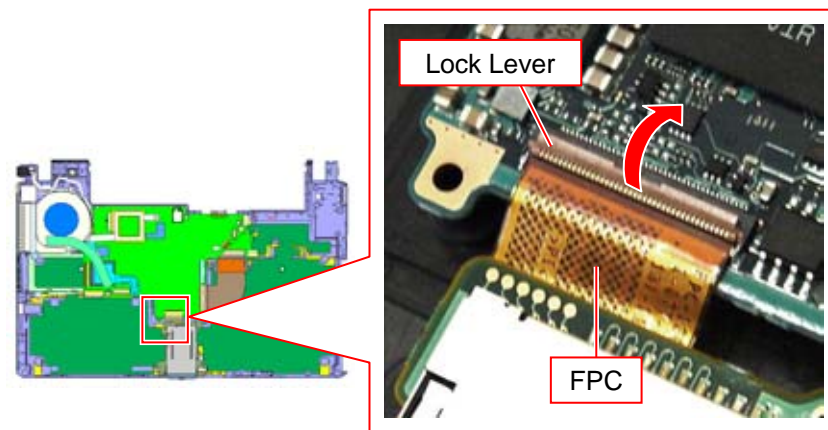
IFX-497 Board

1)



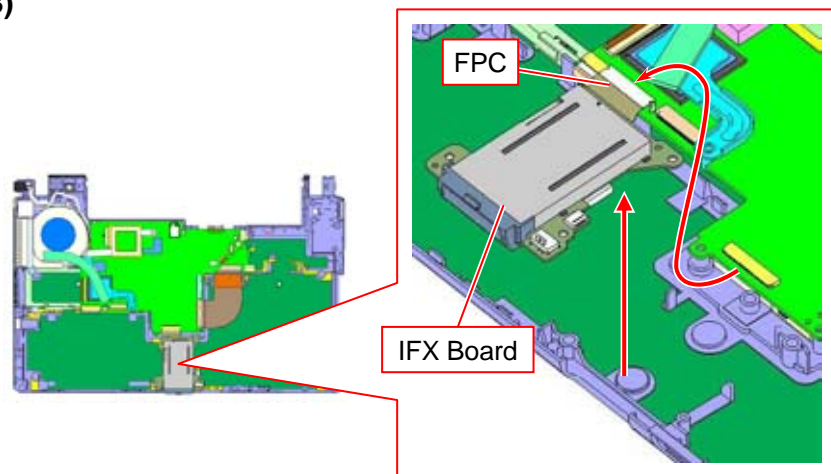
Remove the screw.

2)



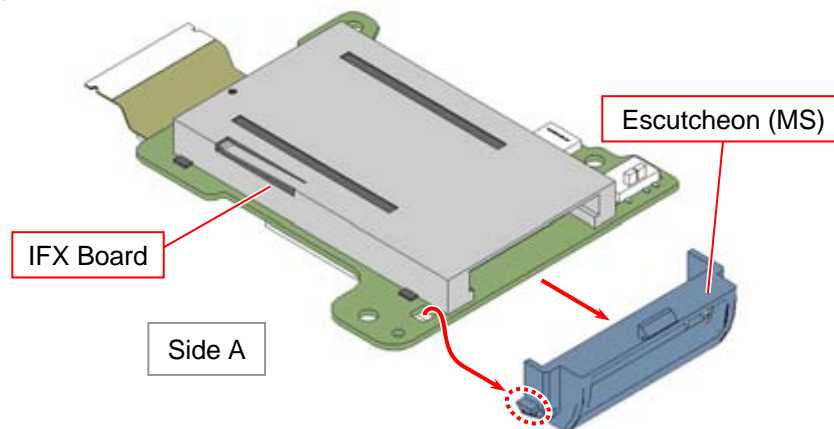
Raise the lock lever and release the lock.

3)



Remove the IFX Board while disconnecting the FPC.

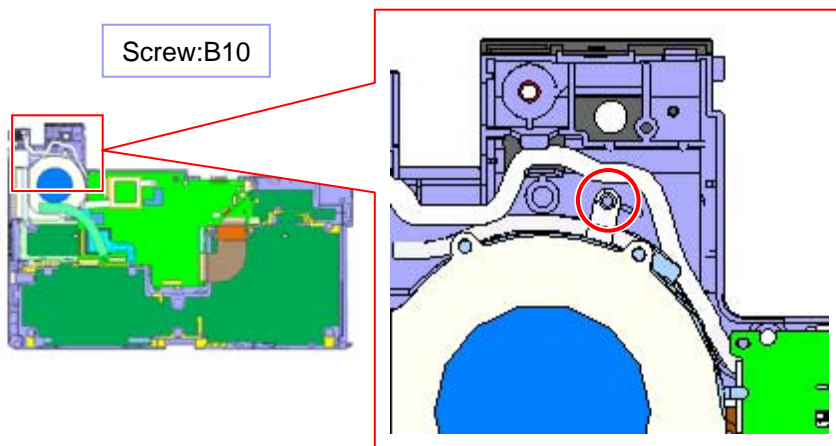
4)



Remove the Escutcheon (MS) while disengaging the detent (one place).

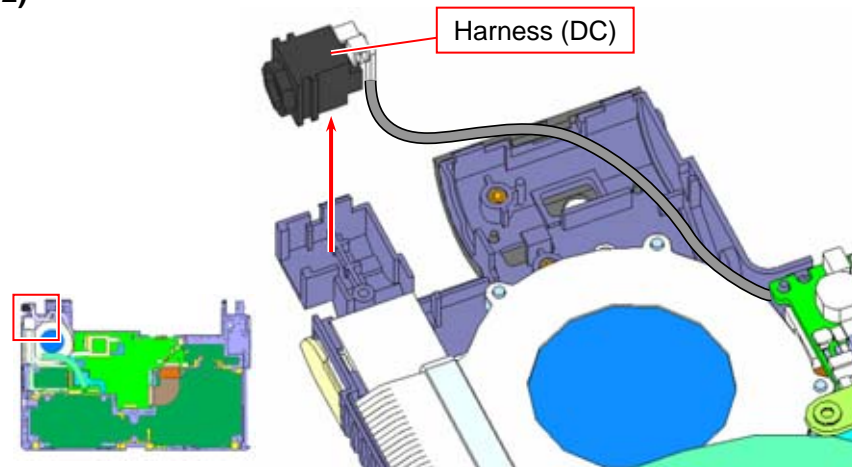
Mother Board -1

1)



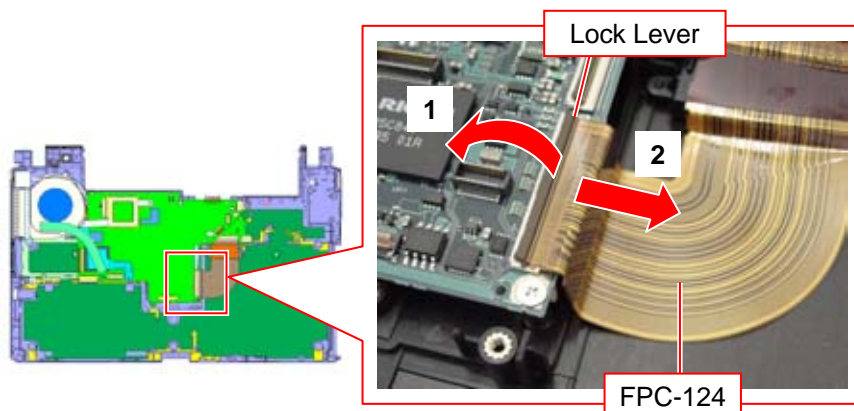
Remove the screw.

2)



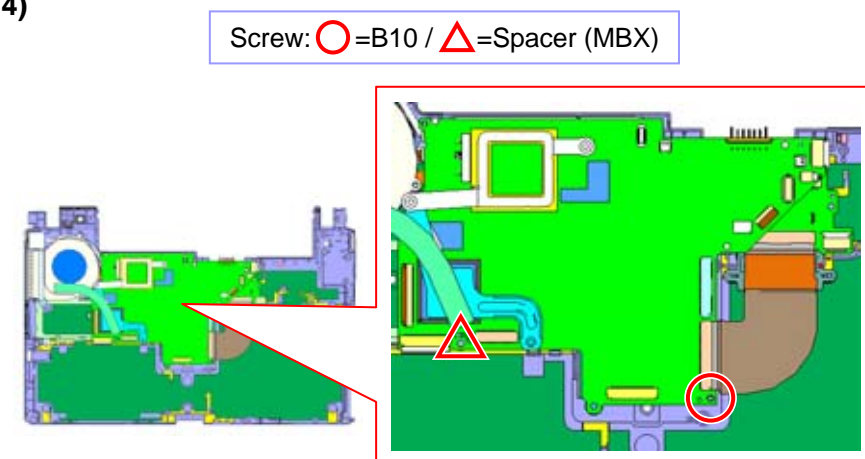
Remove the Harness (DC).

3)



Raise the lock lever to release the lock and disconnect the FPC.

4)

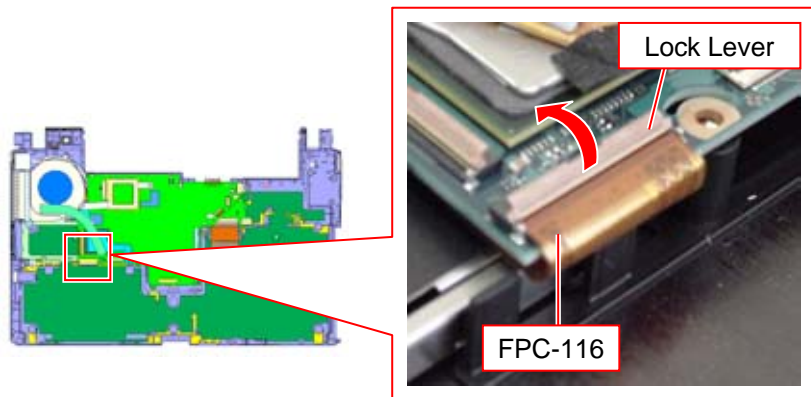


Remove the two screws.

* Use a 4 mm socket wrench for Spacer (MBX).

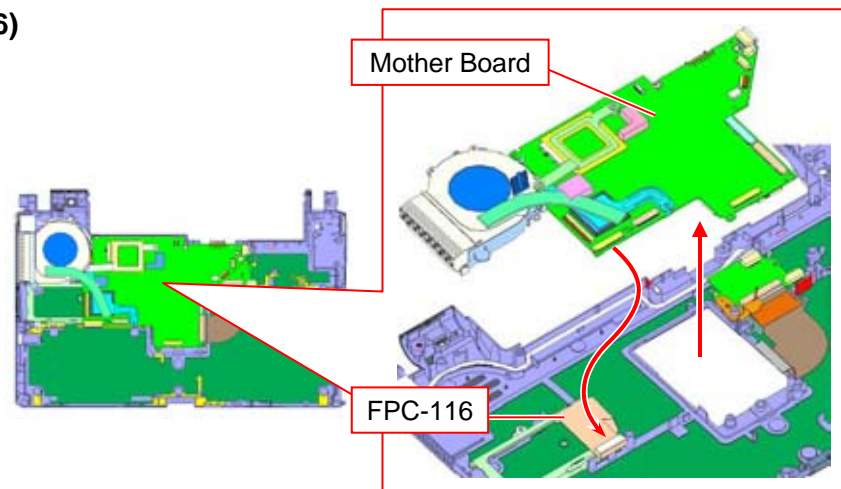
Mother Board -2

5)



Raise the lock lever and release the lock.

6)

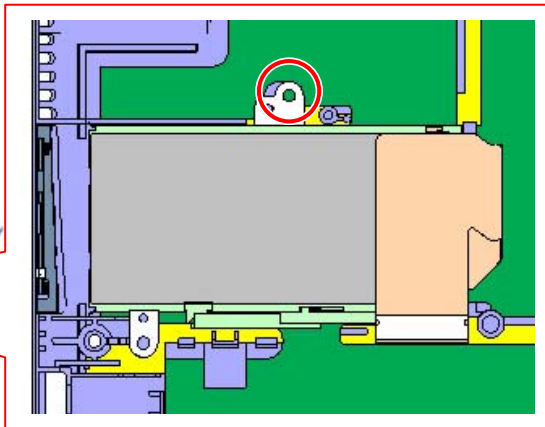


Remove the Mother Board while disconnecting the FPC.

Express Card Connector (Frame)

1)

Screw: B1



Remove the screw.

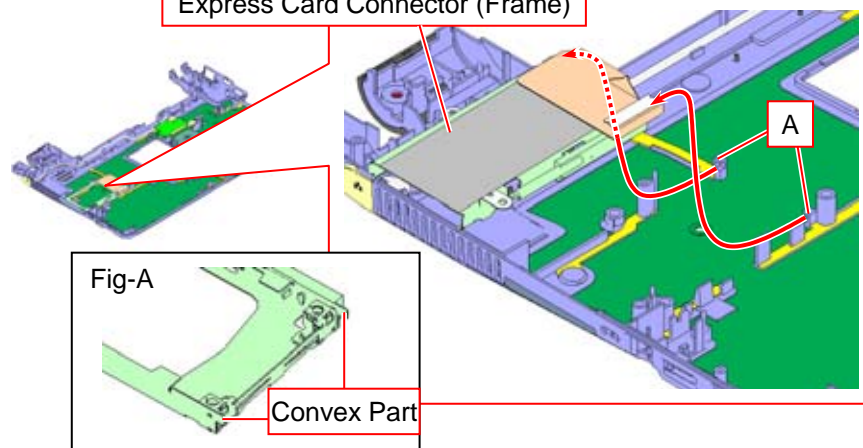
2)

Express Card Connector (Frame)

Fig-A

Convex Part

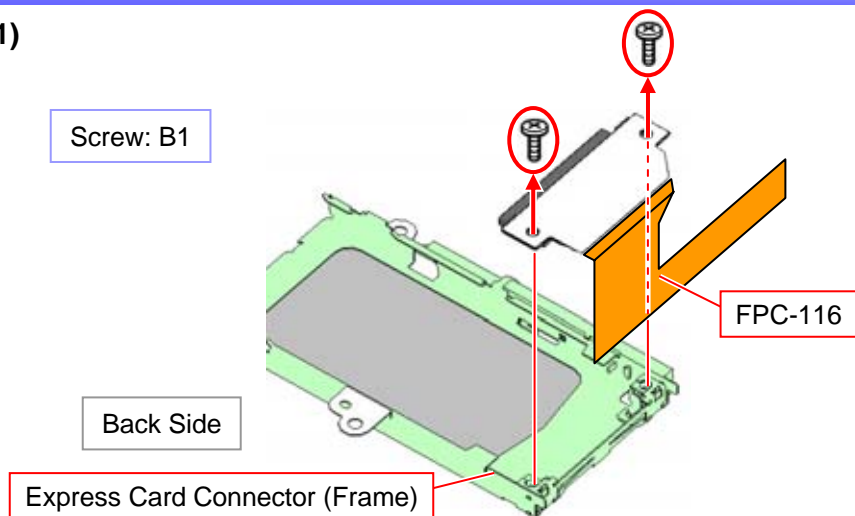
A



Remove the Express Card Connector while removing the convex part (two places) (Fig-A) from the A part (two places).

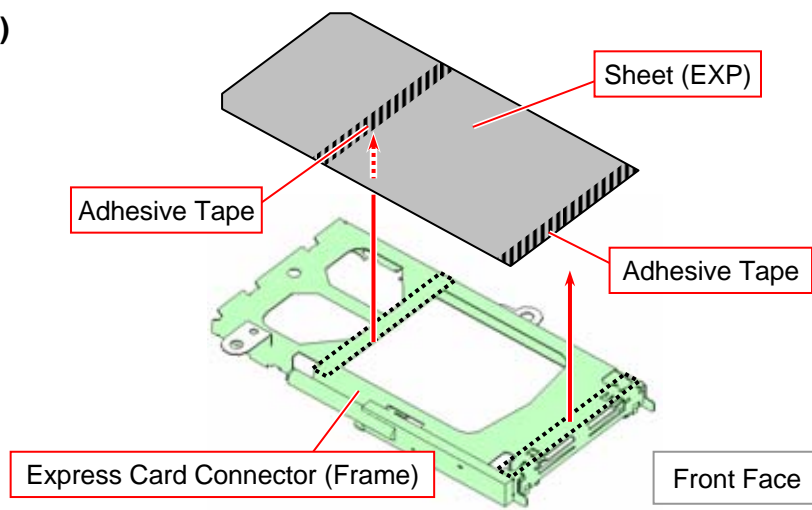
Parts of the Express Card Connector (Frame)

1)



Remove the two screws and remove the FPC.

2)

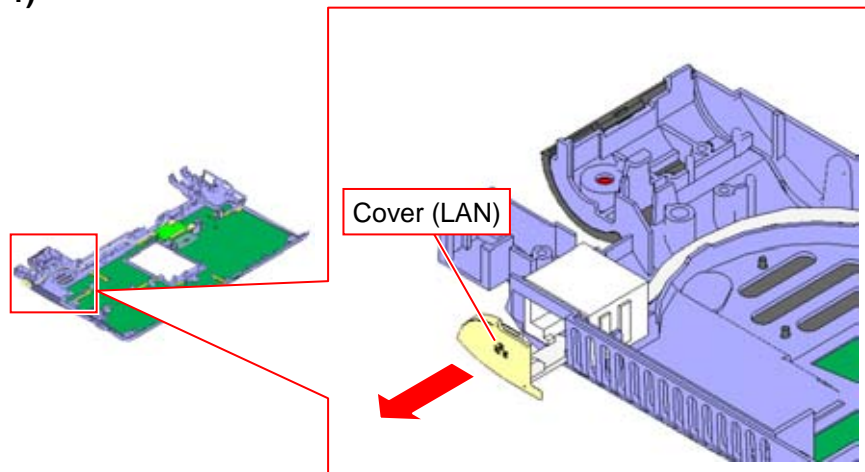


Peel off the Sheet (EXP).

* Adhesive tape (two places) is attached on the back side.

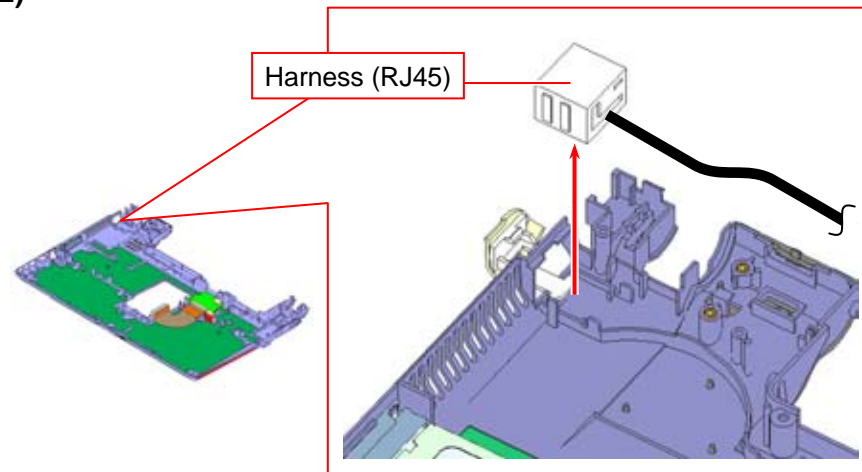
Harness (RJ45)

1)



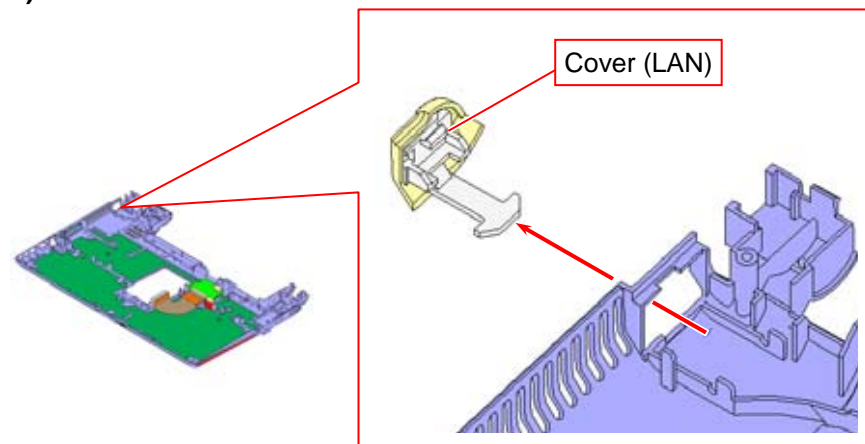
Open the Cover (LAN).

2)



Remove the Harness (RJ45).

3)



Remove the Cover (LAN).

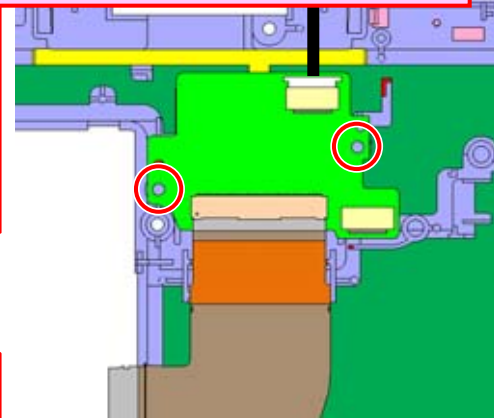
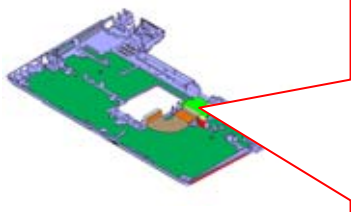
CNX-405 Board

1)

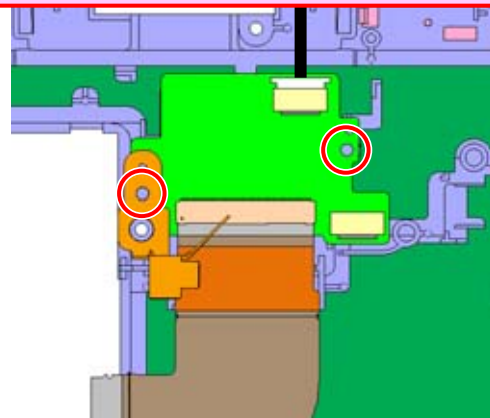


ODD (Super Multi - Except U-CTO or L-CTO) Model

Screw:B3



ODD (Blu-ray) or ODD (Super Multi - U-CTO or L-CTO) Model



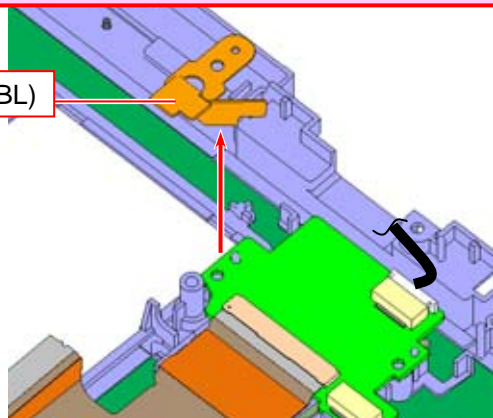
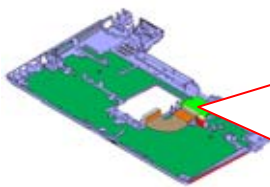
Remove the two screws.

2)

ODD (Blu-ray) or ODD (Super Multi - U-CTO or L-CTO) Model



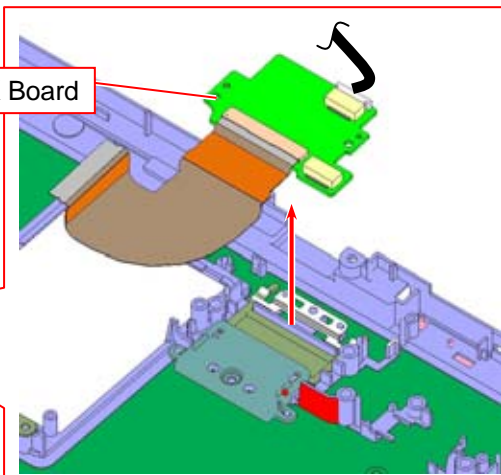
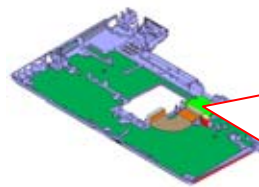
Bracket (ODD_BL)



Remove the Bracket (ODD_BL).

3)

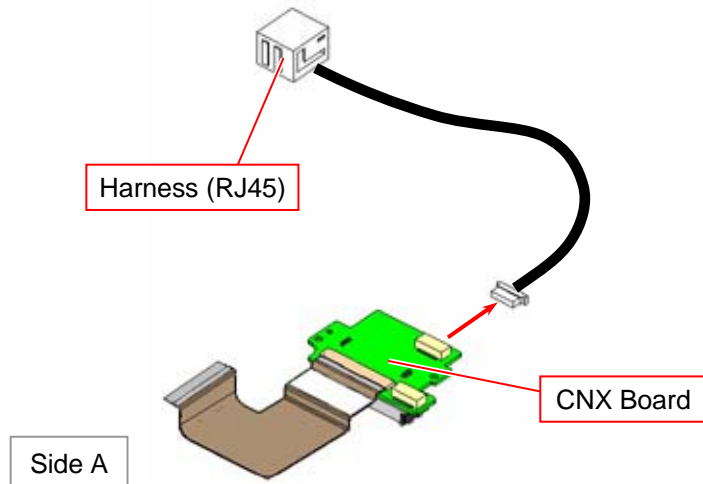
CNX Board



Remove the CNX Board.

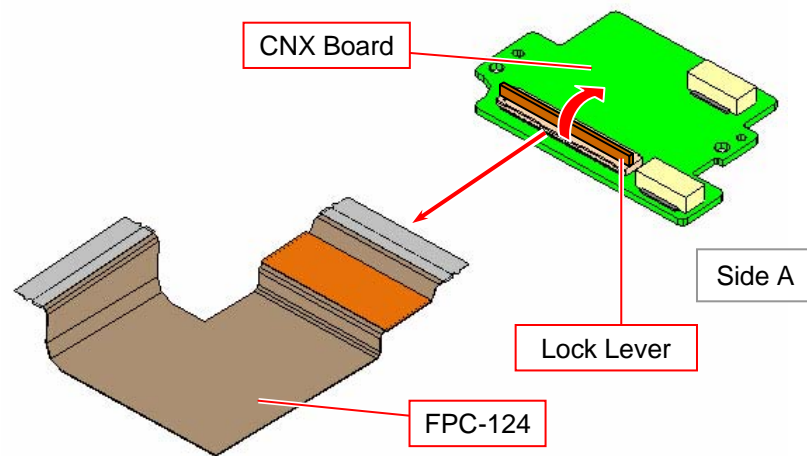
Parts of the CNX-405 Board

1)



Disconnect the Harness (RJ45).

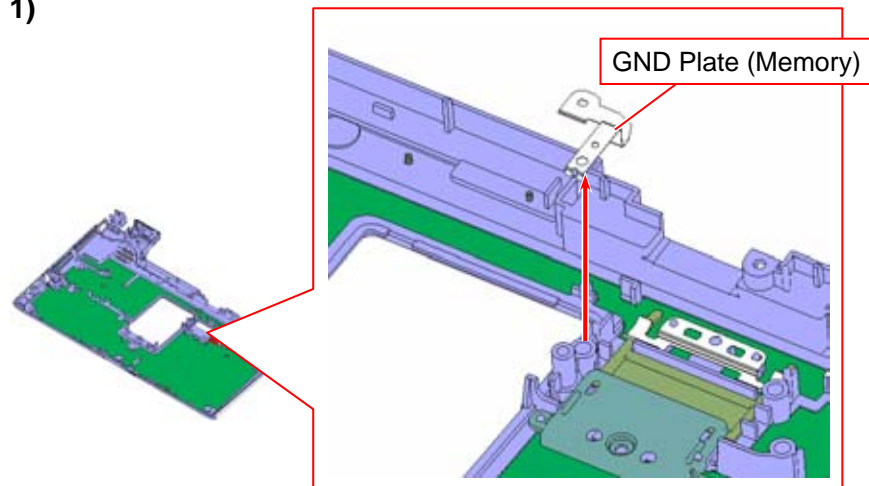
2)



Raise the lock lever to release the lock and disconnect the FPC.

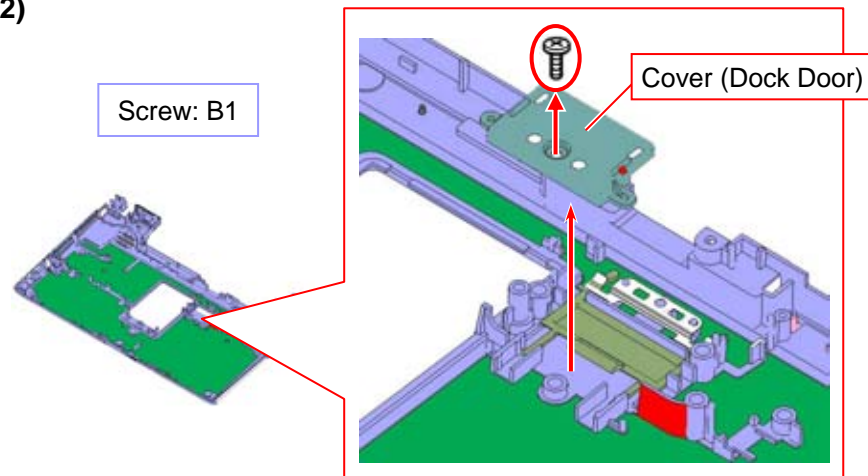
Parts of the Housing (Bottom) -1

1)



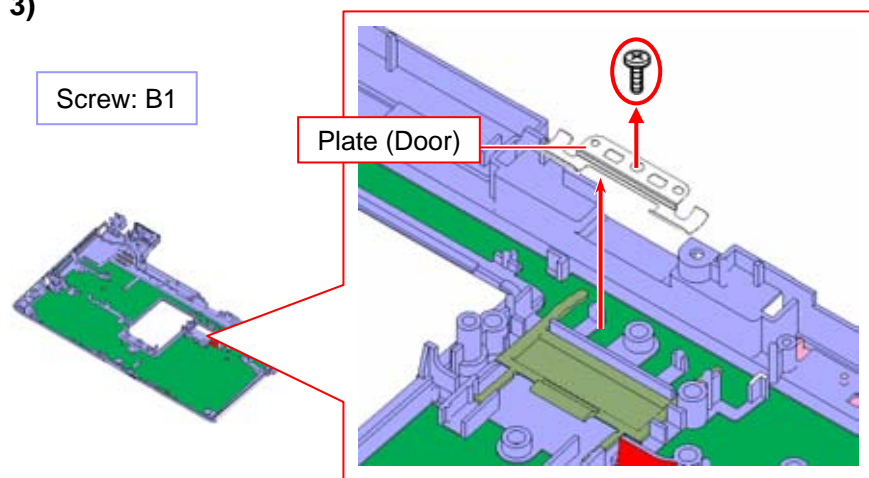
Remove the GND Plate (Memory).

2)



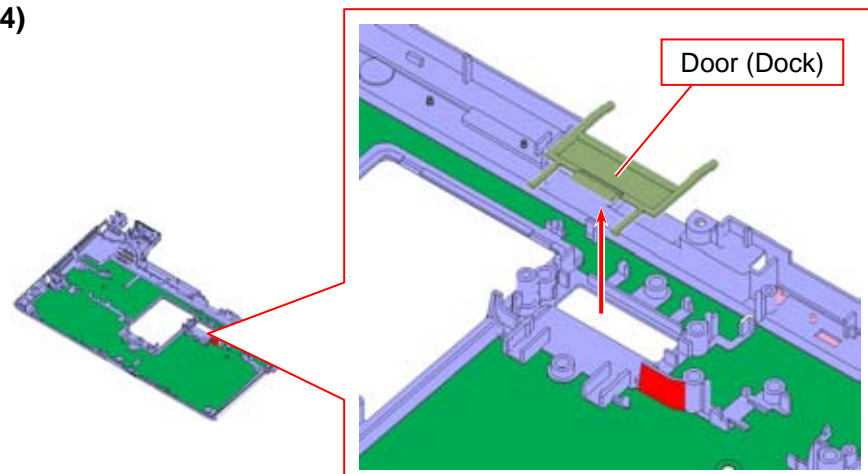
Remove the screw and remove the Cover (Dock Door).

3)



Remove the screw and remove the Plate (Door).

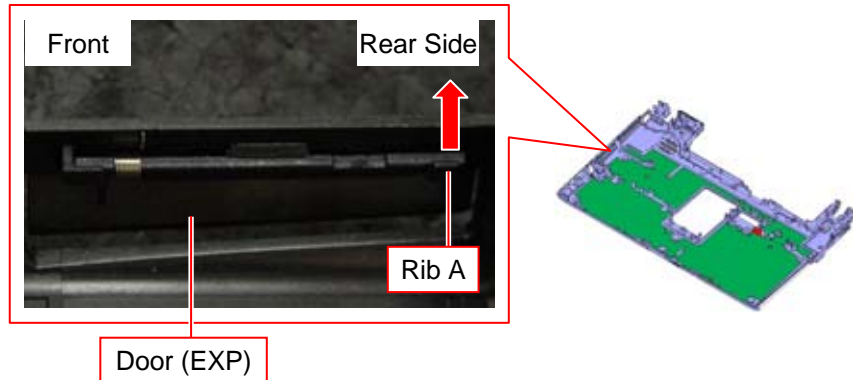
4)



Remove the Door (Dock).

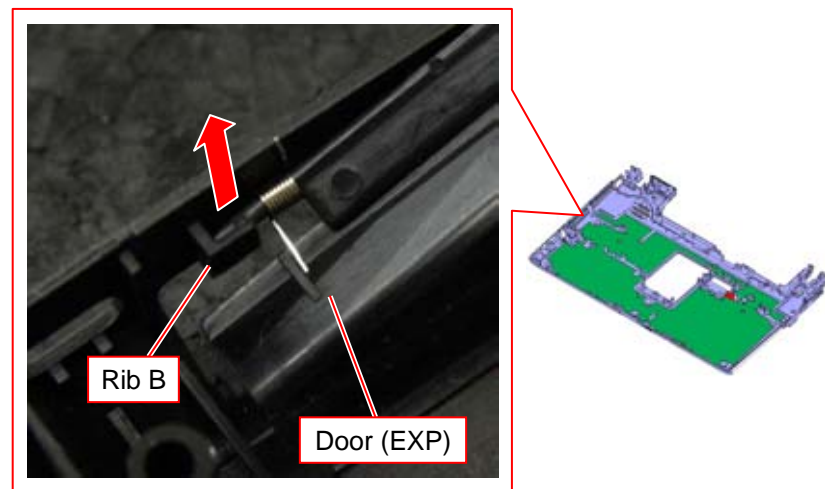
Parts of the Housing (Bottom) -2

5)



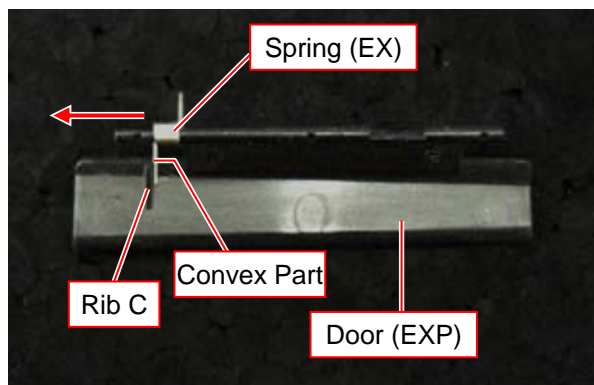
Remove the rear side of the Door (EXP) from the rib A.

6)



Remove the front side of the Door (EXP) from the rib B, and remove the Door (EXP).


7)



While releasing the convex part from the rib C, remove the Spring (EX).

Update History

[**ADD**]---Addition [**DEL**]---Deletion [**CHG**]---Change [**COR**]---Correction [**MA**]---Model Addition

Date		Contents	Version No.
2008.08.25		[MA] (Page 17, 18, 20, 21, 29, 30, 31, 38, 47, 60)	1.10