

November 1th, 2022

Dynabook Laptop Components Classified as Requiring Selective Treatment

Dynabook would like to communicate the method of identifying and removing components contained in Dynabook notebook products, including but not limited to the **Satellite C30-K** model, that requires selective treatment based on the European WEEE Directive, Directive 2012/19/EU of the European Parliament and of the Council on waste electrical and electronic equipment (WEEE).

All of the instructions provided within this letter can be reviewed in greater detail within the **Satellite C30-K** Series Maintenance Manual.

Tools Required

In order to remove internal components of the **Satellite C30-K** some tools from the list below may be required located in **Chapter 4 Replacement Procedures** of the **Dynabook Maintenance Manual**.

For your safety and that of other people in the working environment, it is strongly recommended that you use electrostatic discharge (ESD) equipment. The proper use of this equipment will ensure successful repair work and reduce the costs for repairing damaged components. The equipment and tools required for disassembly and reassembly are:

- One 2 mm Phillips screwdriver
- One 4 mm flat-blade screwdriver
- Torx screw driver
- Tweezers (for pulling out screws)
- ESD mats (for the floor and work desks)
- An ESD wrist strap or heel grounder
- Anti-static carpets or flooring
- Air ionizers (for highly electrostatic sensitive areas)
- A plastic card (in credit card size)
- A smooth stick (0.43mm, for example: a Pick or PC Mylar)
- SIM card tray eject pin tool

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1. Removing the Lithium Ion Battery (Main Battery, No coin cell battery)

Please refer to the information below for instructions regarding the identification and removal of the Lithium ion battery.

Further maintenance instructions can be found in section of the **Satellite C30-K Maintenance Manual**.

Some tools are required in order to remove this component. Once removed, these components should be recycled as per local requirements.

To remove the battery, the base assembly must be removed first:

4.2 Base cover

Removing the base cover

Remove the base cover according to the following procedures and Figure 4-1.

1. Turn the laptop upside down so that the bottom is facing up.
2. Remove the six M2x5 screws ,1 and four M2x3 screws ,2 (This four screws have angle to fix D cover).
3. Press the cover-edge and pry up the base cover from the inner edges, starting from the top ,3, then along the sides ,4 and then the bottom ,5.
4. Slightly shake the base cover to release the center snap on base cover ,6.
5. Remove the base cover ,7.

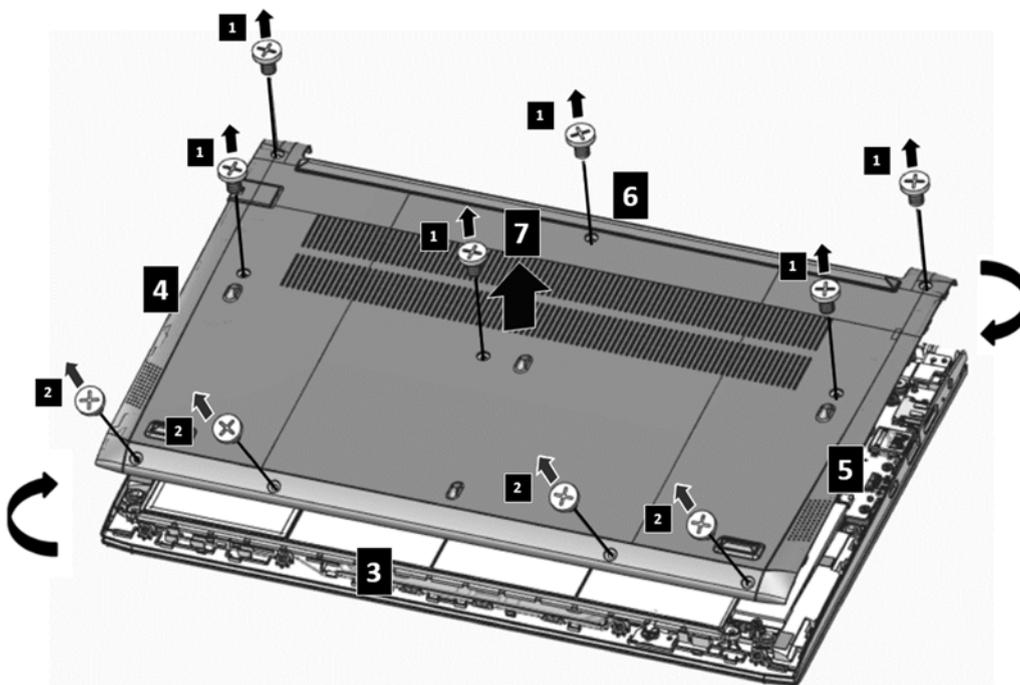


Figure 4-1 Removing the Base Cover

4.3 Battery Pack

Removing the battery pack

Remove the battery pack according to the following procedures and Figure 4-2.

CAUTION:

When handling the battery pack, use care not to short circuit the terminals. Do not drop, hit, twist or bend the battery pack. Do not scratch or break up their casing.

1. Detach the Battery connector □,1.
2. Remove the four M2x3 screws □,2 .
3. Remove the battery pack □,3.

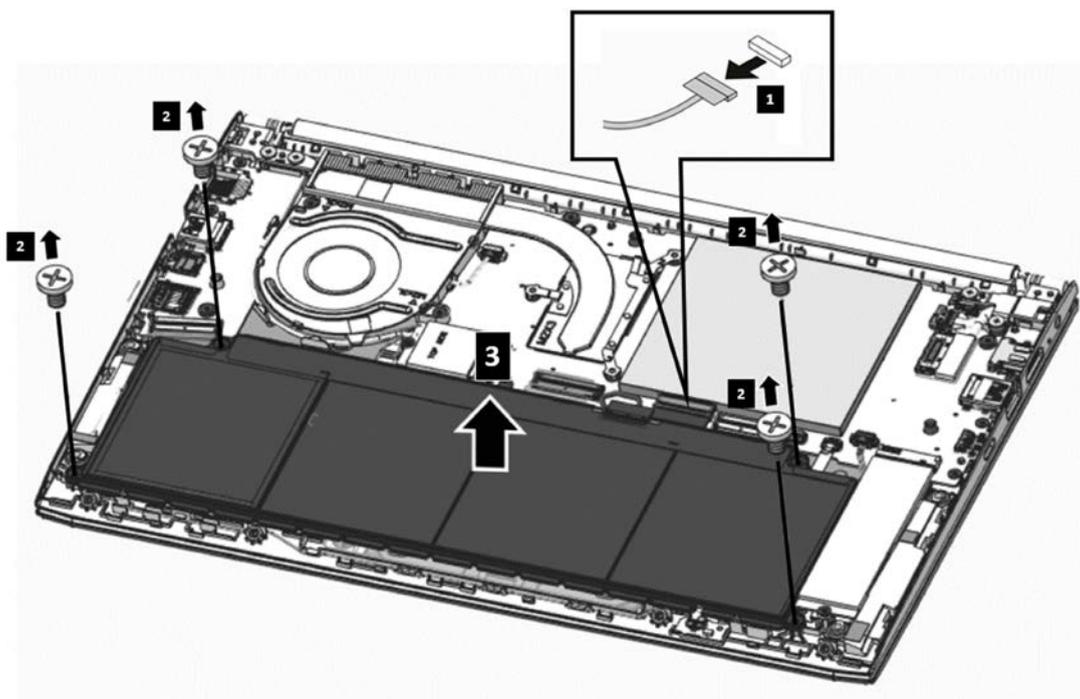


Figure 4-2 Removing the Battery Pack

2. Removing the SSD

4.5 SSD Card

Removing the SSD Card

Remove the SSD Card assembly according to the following procedures and Figure 4-7.

1. Remove the one M2x3 screw and SSD card from the motherboard □,3□,4.

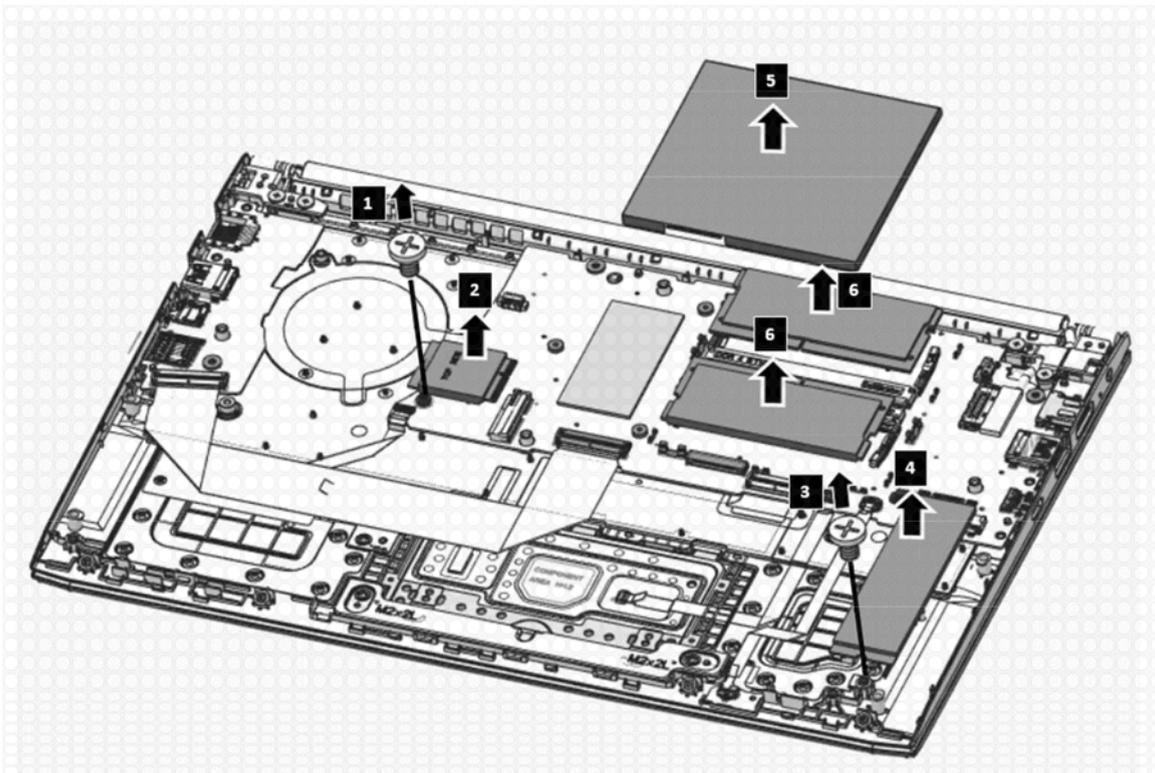


Figure 4-7 Removing the SSD Card/WLAN Card/DIMM

3. Removing LCD, Printed Circuit / Wiring Boards (PCB/ PWB system board)

Beside the LCD and the main PCB, there are further **small PCBs and components** which are in the scope of the WEEE Directive. The removal of these components is described in detail in the **chapter 4** of the associated maintenance manual.

Replacement Procedures

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4.2 Base cover

Removing the base cover

Remove the base cover according to the following procedures and Figure 4-1.

1. Turn the laptop upside down so that the bottom is facing up.
2. Remove the six M2x5 screws ,1 and four M2x3 screws ,2 (This four screws have angle to fix D cover).
3. Press the cover-edge and pry up the base cover from the inner edges, starting from the top ,3, then along the sides ,4 and then the bottom ,5.
4. Slightly shake the base cover to release the center snap on base cover ,6.
5. Remove the base cover ,7 .

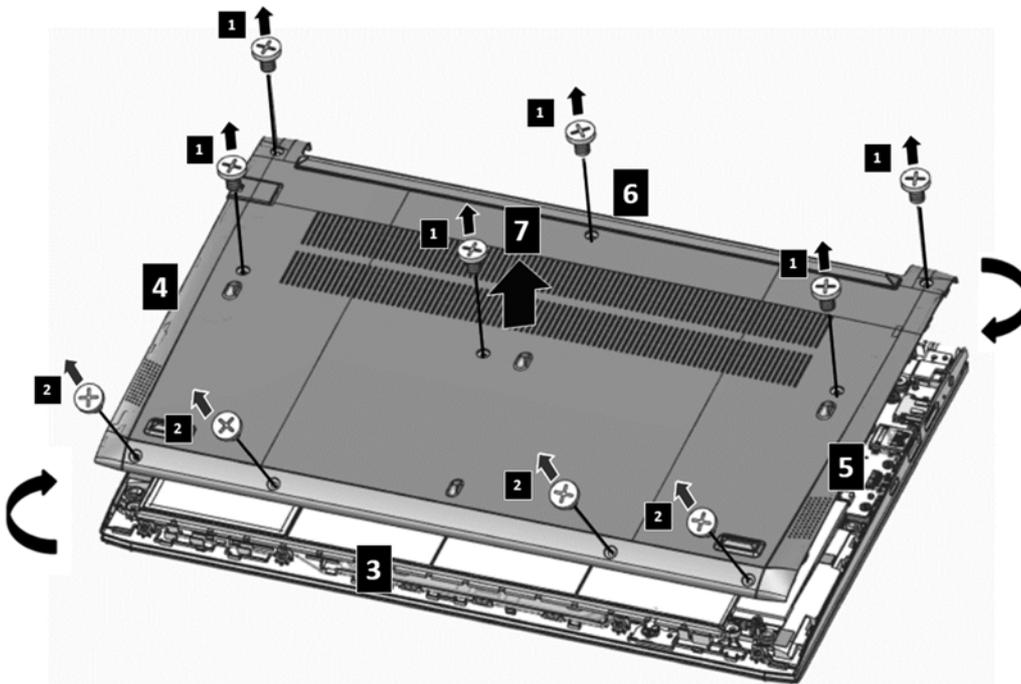


Figure 4-1 Removing the Base Cover

Installing the Base Cover

Install the base cover according to the following procedures:

1. Align the base cover with the snaps on the logic upper assembly, and gently press downward the edges of the base cover until clicks are heard. Make sure all the snaps are latched and secured.
2. Tighten the six M2×5 screws ,1 and four M2x3 screws ,2(the four screws have angles) to secure the base cover to the logic upper assembly. (as shown in Figure 4-1)

BIT# of screw driver	Screw(quantity)	Color	Torque
#1	M2 x 5 mm, flat-head, nylon-costed (6)	Black / Sliver	0.181 Nm (1.85 kgf-cm)
#1	M2 x 3 mm, flat-head, nylon-costed (4)	Black / Sliver	0.181 Nm (1.85 kgf-cm)

4.3 Battery Pack

Removing the battery pack

Remove the battery pack according to the following procedures and Figure 4-2.

CAUTION:

When handling the battery pack, use care not to short circuit the terminals. Do not drop, hit, twist or bend the battery pack. Do not scratch or break up their casing.

1. Detach the Battery connector ,1.
2. Remove the four M2x3 screws ,2 .
3. Remove the battery pack ,3.

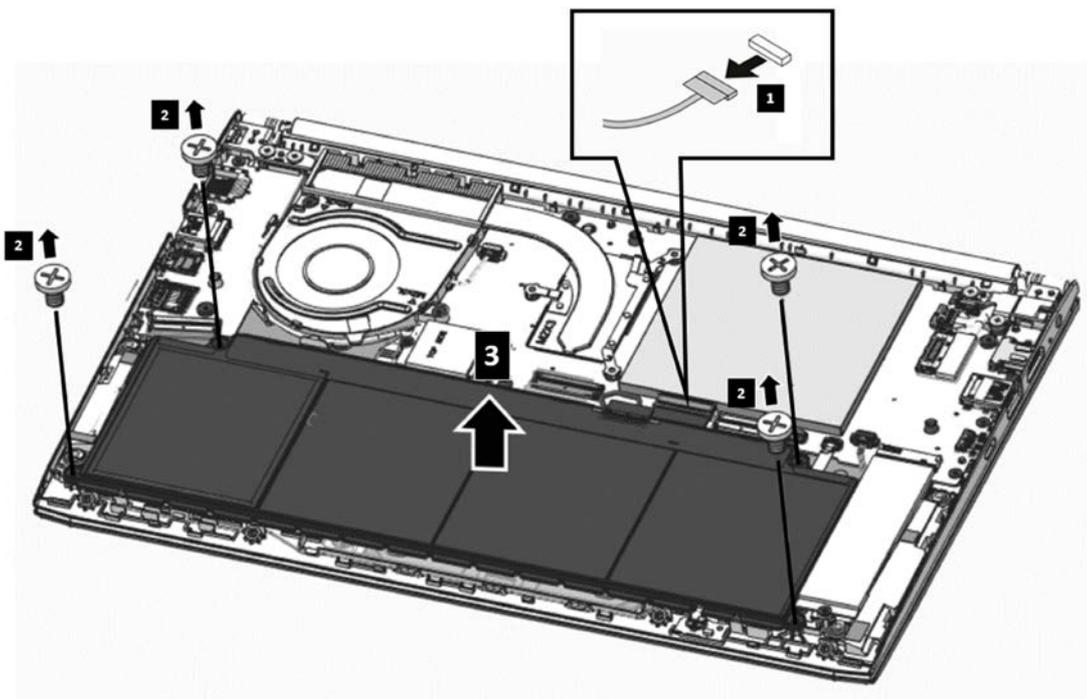


Figure 4-2 Removing the Battery Pack

Installing the Battery Pack

Install the battery pack according to the following procedures:

1. Seat the battery pack in the correct position on the logic upper assembly and insert the battery connector ,1 ,3.
2. Tighten the four M2 x 3 screws to secure the battery pack to the logic upper assembly ,2.

BIT# of screw driver	Screw(quantity)	Color	Torque
#1	M2 x 3 mm, flat-head, nylon-costed (4)	Black	0.181 Nm (1.85 kgf-cm)

4.4 Fan and Thermal Module

Removing the fan and thermal module

Remove the fan and thermal module according to the following procedures and Figure 4-3 & Figure 4-4

CAUTION:

When removing the thermal module, keep the following in mind:

1 The thermal module can become very hot during operation. Be sure to let it cool down before starting the repair work.

1. Peel off the W-LAN Mylar securing the cable connector in place ,6 and disconnect the two W-LAN antennas (White/Black color) from motherboard ,7 as shown in Figure 4-4.
2. Gently pull up the W-LAN antennas out of the routing channels on fan ,8.
3. Disconnect the Fan cable from the motherboard ,1.
4. Remove the two M2x3 screws and fan ,2.
5. Remove the three M2x3 screws according to the number sequence (5->4->3) indicated in Figure 4-3.
6. Remove the thermal module.

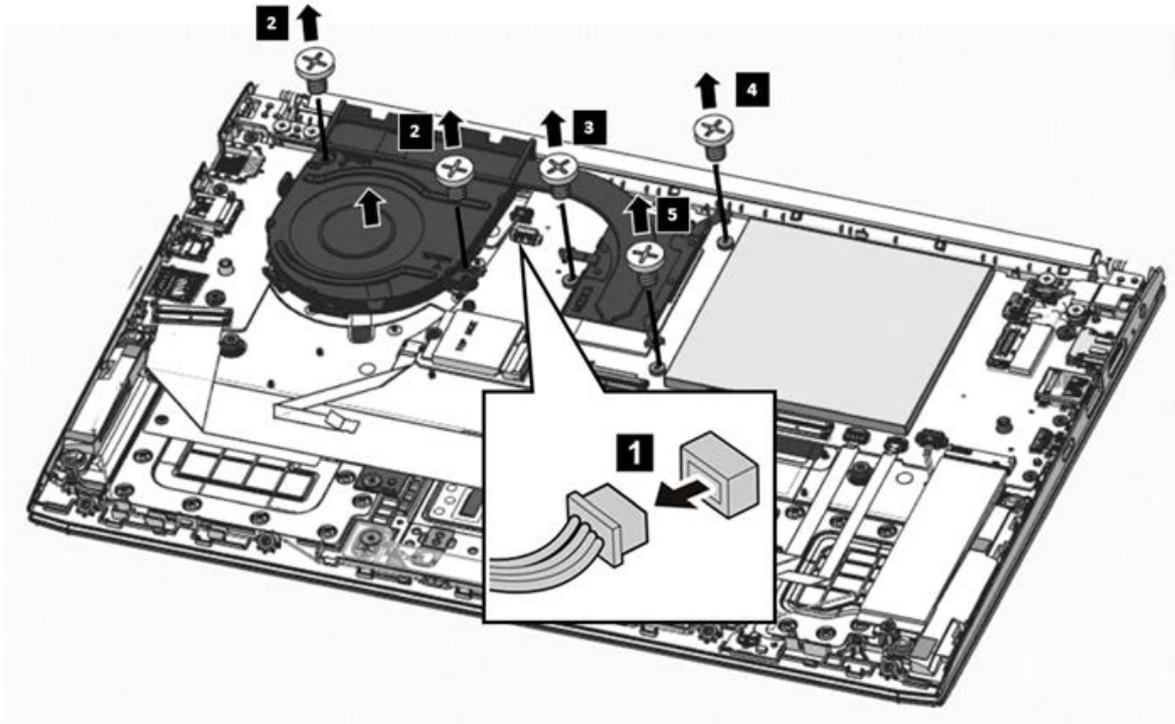


Figure 4-3 Removing the Fan and thermal module

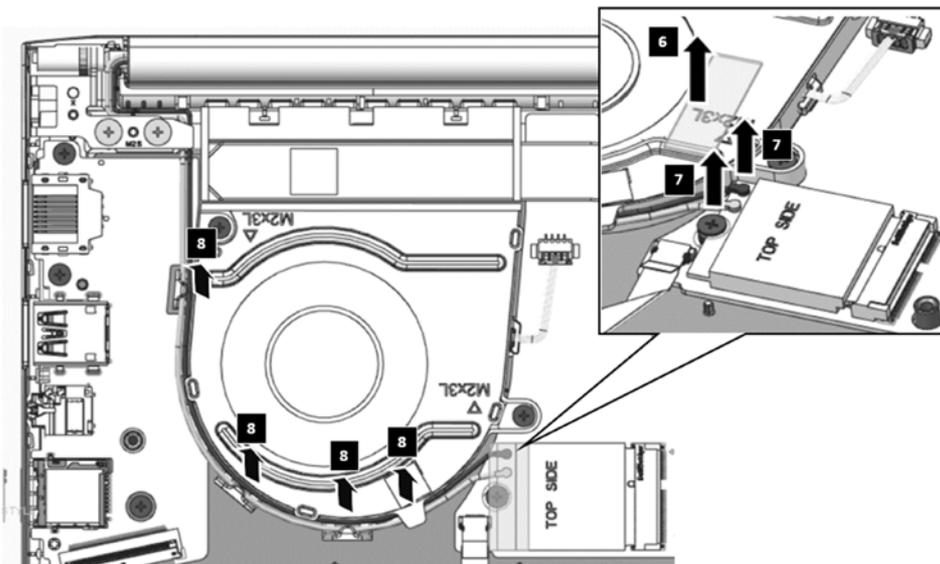


Figure 4-4 Removing the w-lan cable

Installing the thermal module

Install the fan and thermal module according to the following procedures:

1. Seat the fan in the correct position on the logic upper assembly and insert the fan connector ,9 and tuck the fan cable into the fan hook ,10. as shown in Figure 4-5.
2. Tighten the two M2 x 3 ,2screws to secure the fan to the logic upper assembly, as show in Figure 4-3.
3. Check the greasy is attached on the thermal module as shown in Figure 4-6 .
4. Place the thermal module in the correct position on the motherboard.
5. Tighten the three M2 x 3 screws according to the number sequence (3->4->5) indicated in Figure 4-3 to secure the thermal module to the motherboard.
6. For the w-lan cable routing, tuck the w-lan cable into the fan hook ,11, and wlan cable connector insert the wlan card ,12. Finally, paste wlan mylar on the w-lan module ,13 as shown in Figure 4-5.

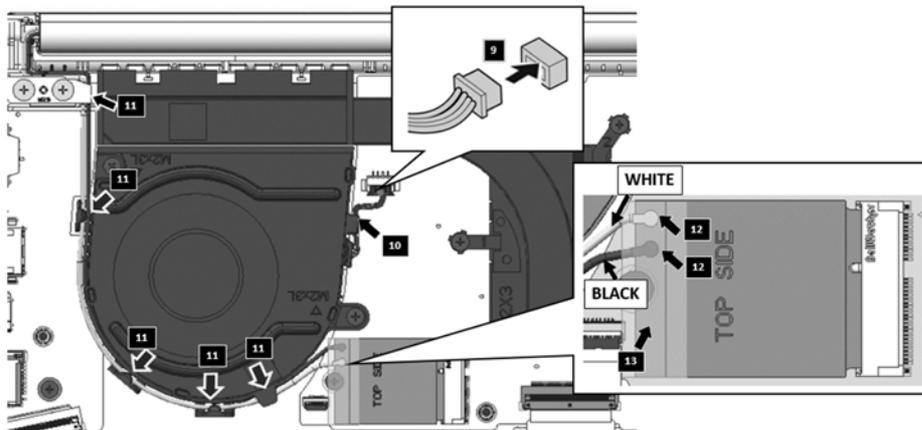


Figure 4-5 Fan Cable and W-lan Cable Routing

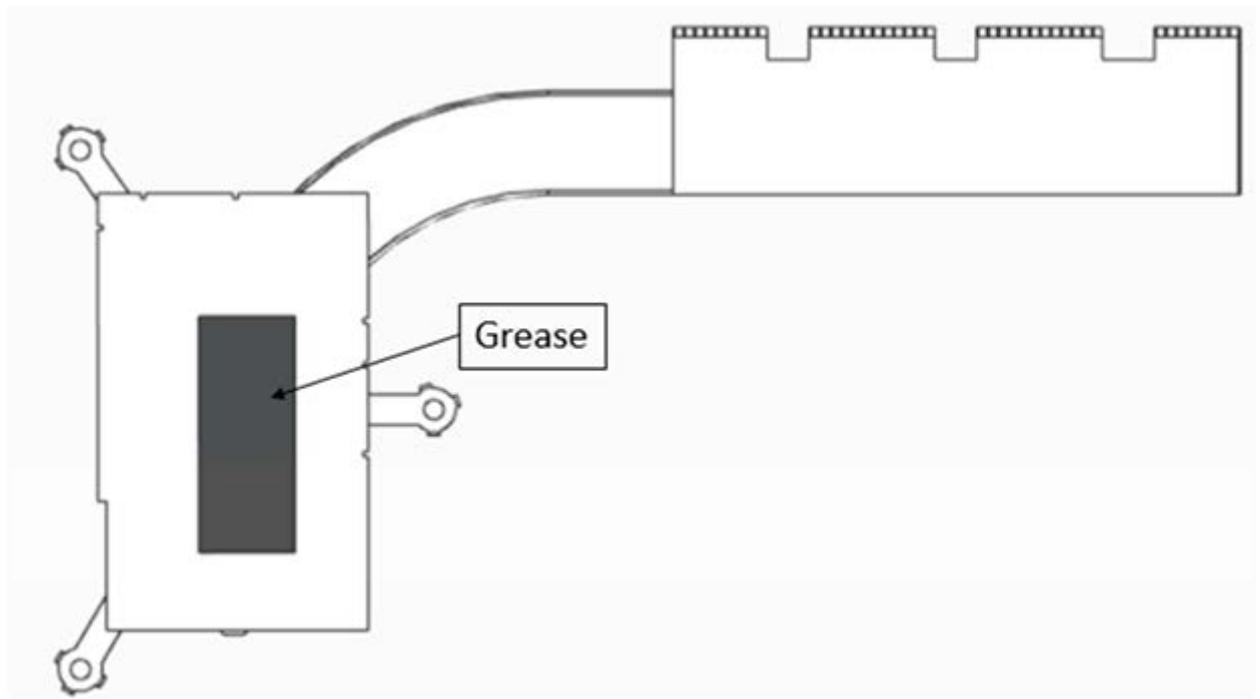


Figure 4-6 Checking the Thermal Pad on Thermal module

BIT# of screw driver	Screw(quantity)	Color	Torque
#1	M2 x 3 mm, flat-head, nylon-costed (5)	Black	0.181 Nm (1.85 kgf-cm)

4.5 SSD Card/WLAN Card/DIMM

Removing the SSD Card/WLAN Card/DIMM

Remove the SSD Card/WLAN Card/DIMM assembly according to the following procedures and Figure 4-7.

1. Remove the one M2x3 screw and Wlan card from the motherboard ,1 ,2.
2. Remove the one M2x3 screw and SSD card from the motherboard ,3 ,4.
3. Remove the DDR shielding and DIMM from the motherboard ,5 ,6.

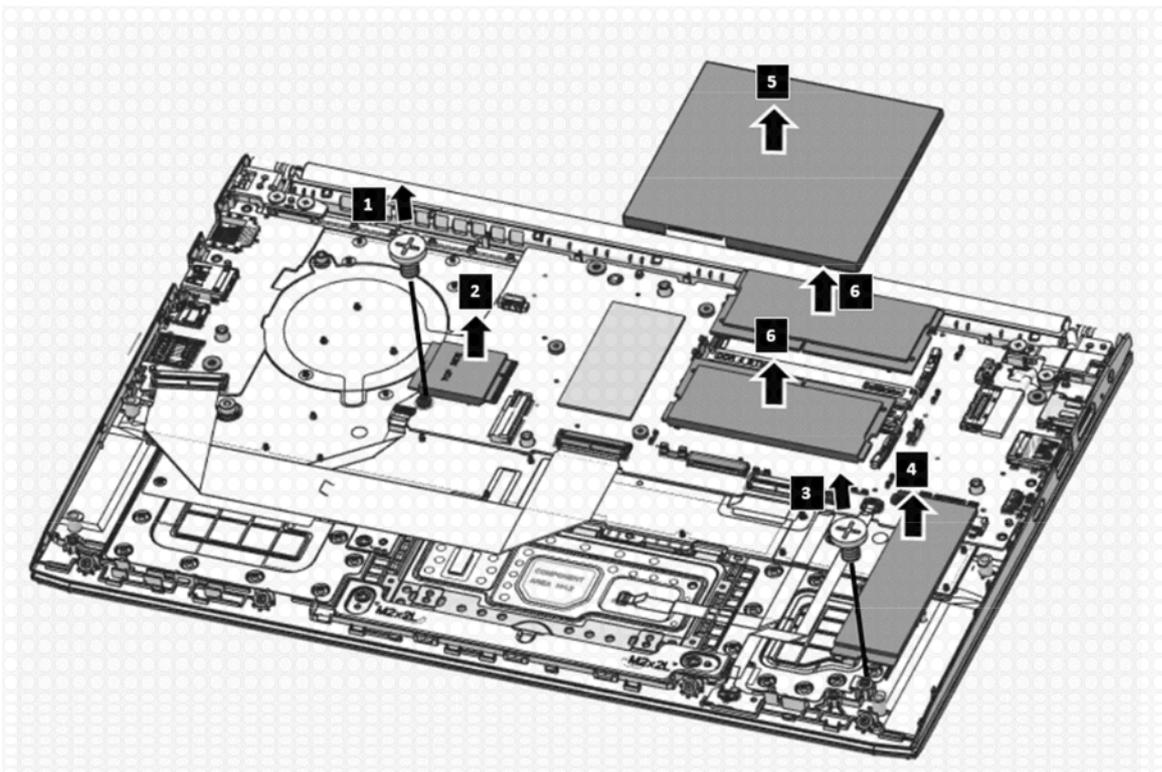


Figure 4-7 Removing the SSD Card/WLAN Card/DIMM

Installing the SSD Card/WLAN Card/DIMM

Install the SSD Card/WLAN Card/DIMM according to the following procedures:

1. Seat the wlan in the correct position and tighten the one M2 x 3 screw to secure the wlan to the motherboard assembly ,1 ,2.
2. Seat the SSD in the correct position and tighten the one M2 x 3 screw to secure the wlan to the motherboard assembly ,3 ,4.
3. Seat the DIMM in the correct position and seat the shielding cover to the motherboard ,5
,6.

4.6 Speakers

Removing the Speakers

Remove the speaker assembly according to the following procedures and Figure 4-8.

1. Disconnect the speaker cable from the motherboard ,1.
2. Gently pull up the speaker assembly and the speaker cable out of the routing channels ,2
- ,3.

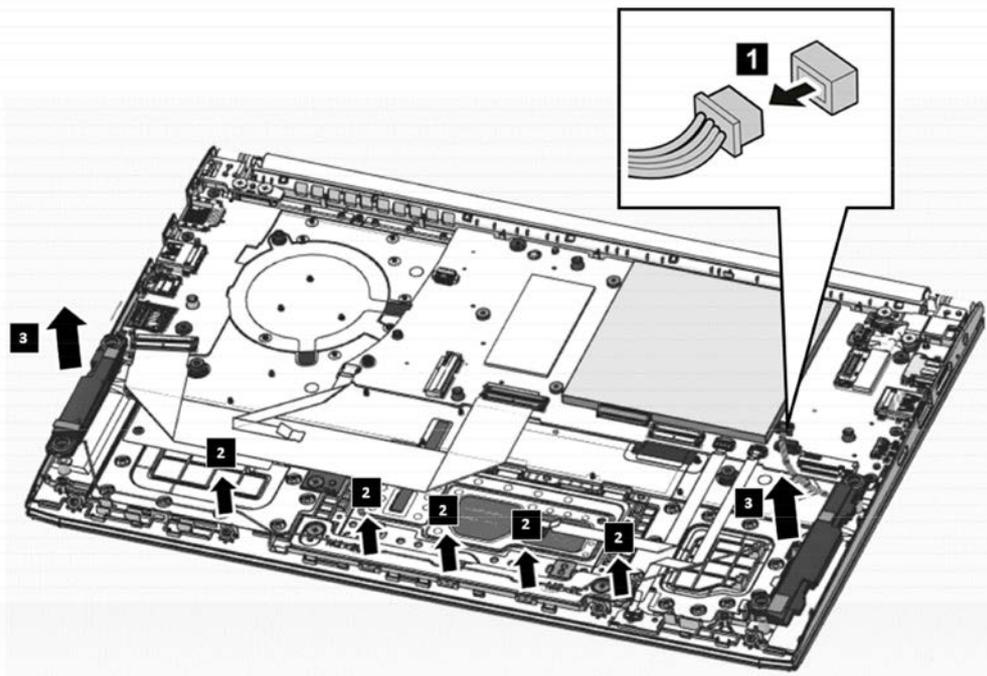


Figure 4-8 Removing the Speakers

Installing the Speakers

Install the speakers according to the following procedures:

NOTE: Take care not to pinch the cables. Make sure the routing positions of the cables are correct and do not block any components, such as screw holes.

1. Seat the speakers in the correct position and secure it in place on the logic upper assembly
 ,3 as shown in Figure 4-8.
2. Route and secure the speaker cable in the routing channels as shown in Figure 4-9.
3. Connect the speaker cable to the motherboard ,1 as shown in Figure 4-8.

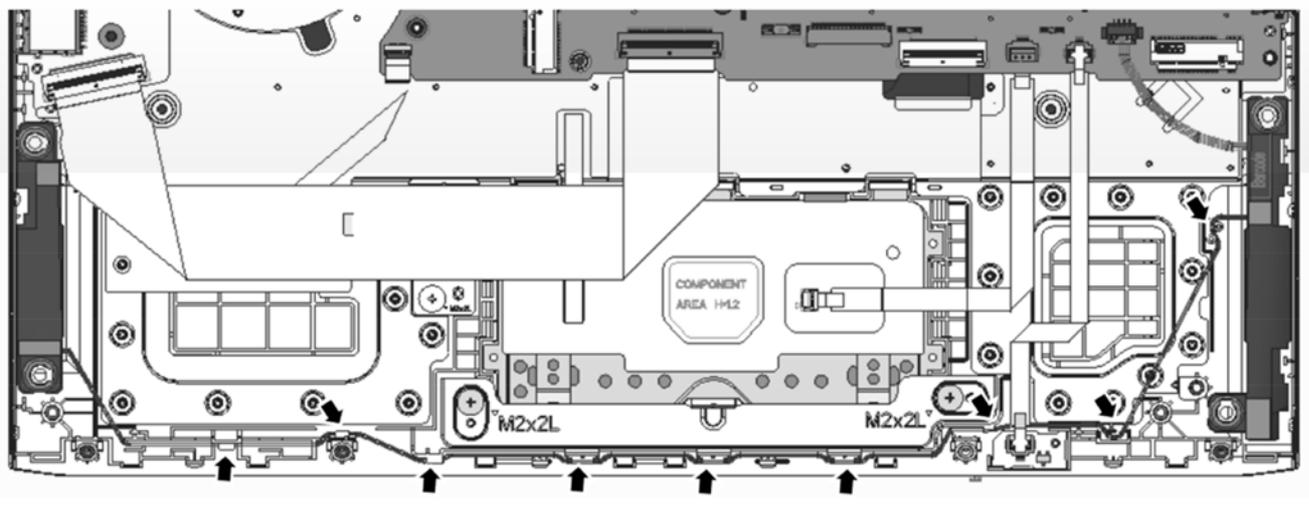


Figure 4-9 Speaker Cable routing channels on upper

4.7 IO Board

Removing the IO Board

Remove the IO board according to the following procedures and Figure 4-10.

1. Disconnect the IO board FFC ,1 ,2.
2. Remove three M2x3 screws ,3.
3. Gently lift up the right edge of the IO board and remove it from the logic upper assembly ,4

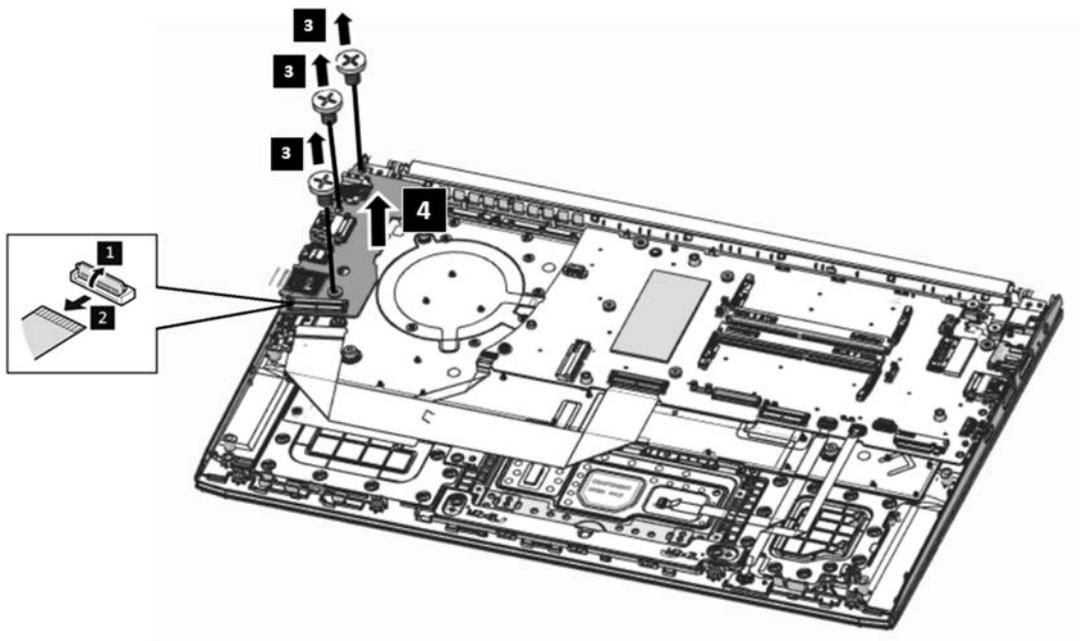


Figure 4-10 Removing the IO Board

Installing the IO Board

Install the IO board according to the following procedures:

1. Seat the IO board in the correct position on the logic upper assembly ,4.
2. Tighten three M2×3 screw to secure the IO board to the logic upper assembly ,3.
3. Connect the IO board FFC to the IO board. Make sure the FFC are properly engaged and firmly secured ,1 ,2.

BIT# of screw driver	Screw(quantity)	Color	Torque
#1	M2 x 3 mm, flat-head, nylon-costed (3)	Black	0.181 Nm (1.85 kgf-cm)

4.8 Sensor Board

Removing the Sensor Board

Remove the Sensor board according to the following procedures and Figure 4-11.

1. Disconnect the sensor board FFC ,1 ,2.
2. Gently pry up the sensor board from the adhesive and remove it from the Upper cover ,3.

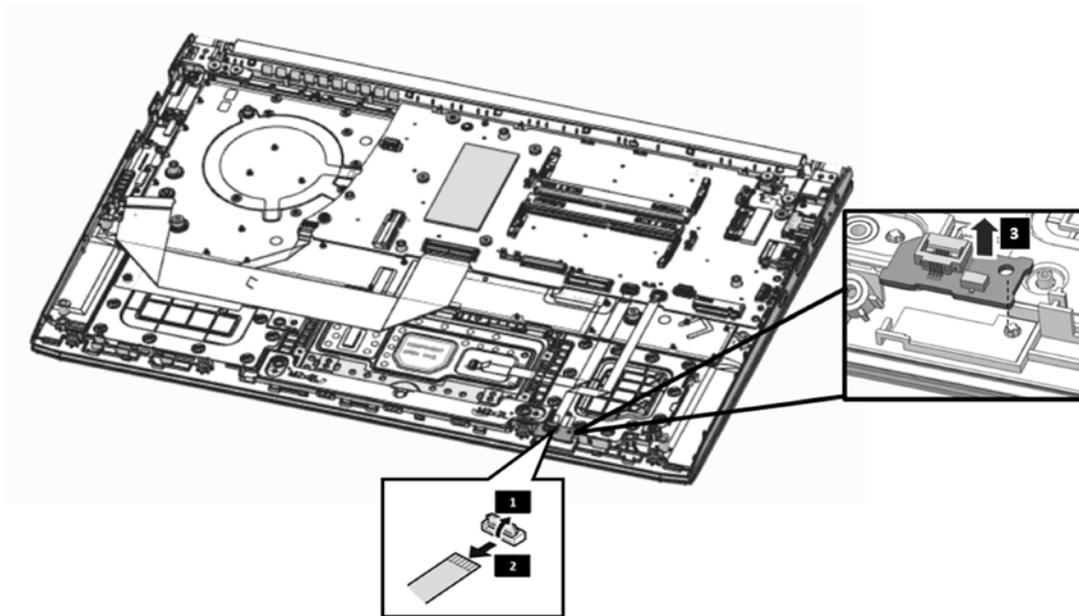


Figure 4-11 Removing the sensor board

Installing the Sensor Board

Install the Sensor board according to the following procedures:

1. Seat the sensor board in the correct position and secure it in place with adhesives on the upper cover as shown in Figure 4-12.
2. Connect the sensor board FFC to the sensor board. Make sure the FFC are properly engaged and firmly secured ,1 ,2.

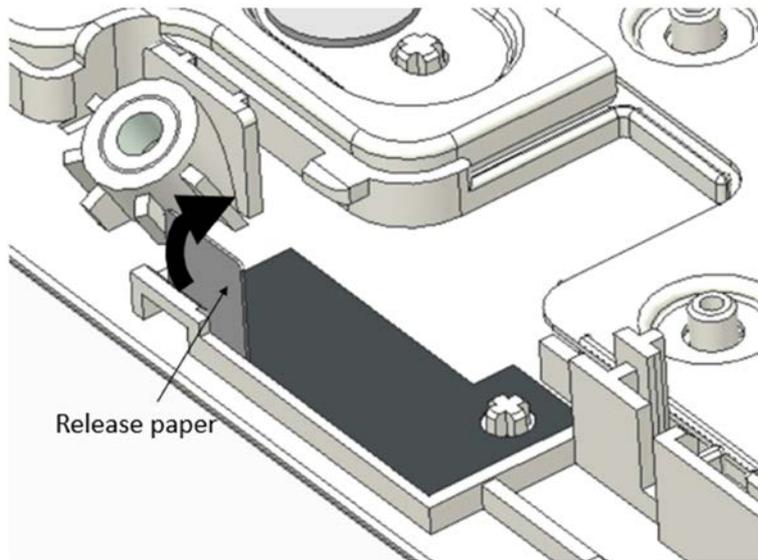


Figure 4-12 Removing the release paper of sensor board adhesive

4.9 Motherboard

Removing the Motherboard

Remove the motherboard according to the following procedures and Figure 4-13.

1. Remove four M2x3 screws ,1 securing the motherboard to the logic upper assembly.
2. Disconnect the eDP cable ,2/ DCIN cable ,3/sensor board FFC ,4 ,5/TP FFC ,6 ,7/keyboard FPC ,8 ,9/IO FFC ,10 ,11/ FP FFC ,12 ,13 from the motherboard as shown in Figure 4-13.
3. Gently lift the left edge of the motherboard and remove the motherboard from the logic upper assembly ,14.

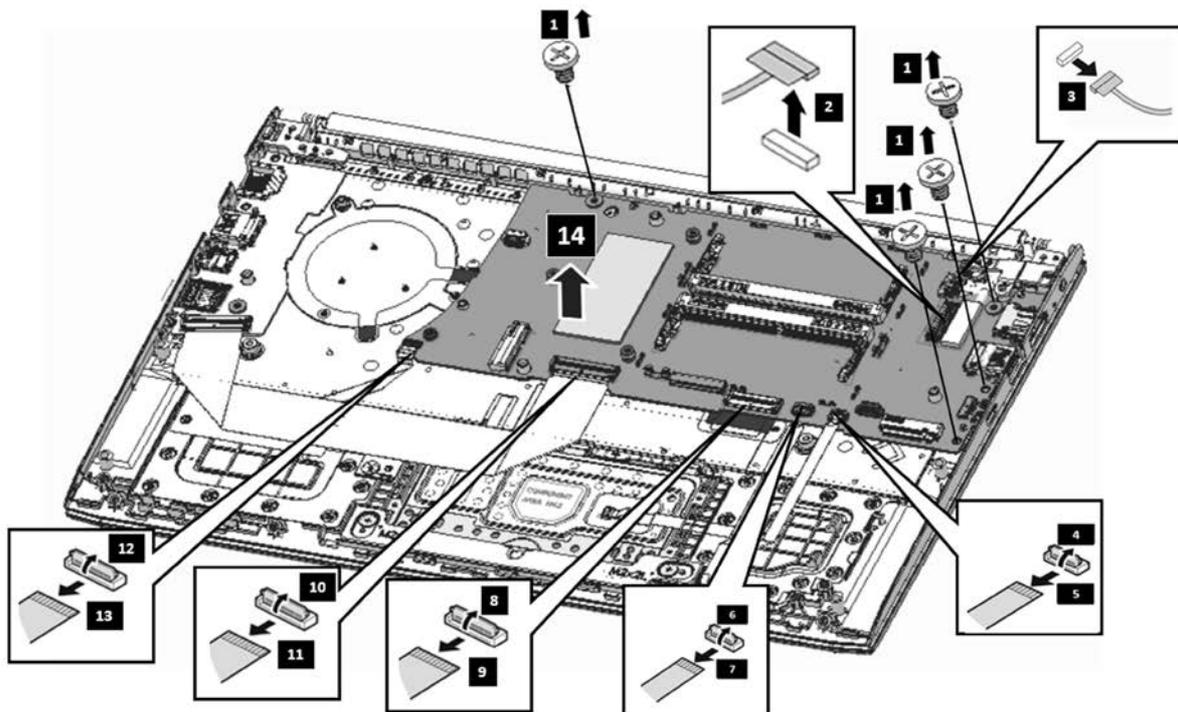


Figure 4-13 Removing the Motherboard

Installing the Motherboard

Install the motherboard according to the following procedures:

1. Seat the motherboard in the correct position on the logic upper assembly.
2. Tighten four M2×3 screw ,1 to secure the motherboard to logic upper assembly as shown in Figure 4-13.
3. Connect the eDP cable ,2/ DCIN cable ,3/ sensor board FFC ,4 ,5/ TP FFC ,6 ,7/ keyboard FPC ,8 ,9/ IO FFC ,10 ,11/ FP FFC ,12 ,13 to the motherboard as shown in Figure 4-13. Make sure the FPC and the connectors are properly engaged and firmly secured.

BIT# of screw driver	Screw(quantity)	Color	Torque
#1	M2 x 3 mm, flat-head, nylon-costed (4)	Black	0.181 Nm (1.85 kgf-cm)

4.10 Finger Print Module

Removing the Finger Print Module

Remove the finger print assembly according to the following procedures and Figure 4-14.

1. Disconnect the finger print FFC from finger print module ,1 ,2.
2. Remove the one M2×2 screws securing the finger print bracket to the logic upper assembly ,3.
3. Remove finger print bracket ,4 from the logic upper.
4. Gently push the finger print away from the logic upper assembly ,5.

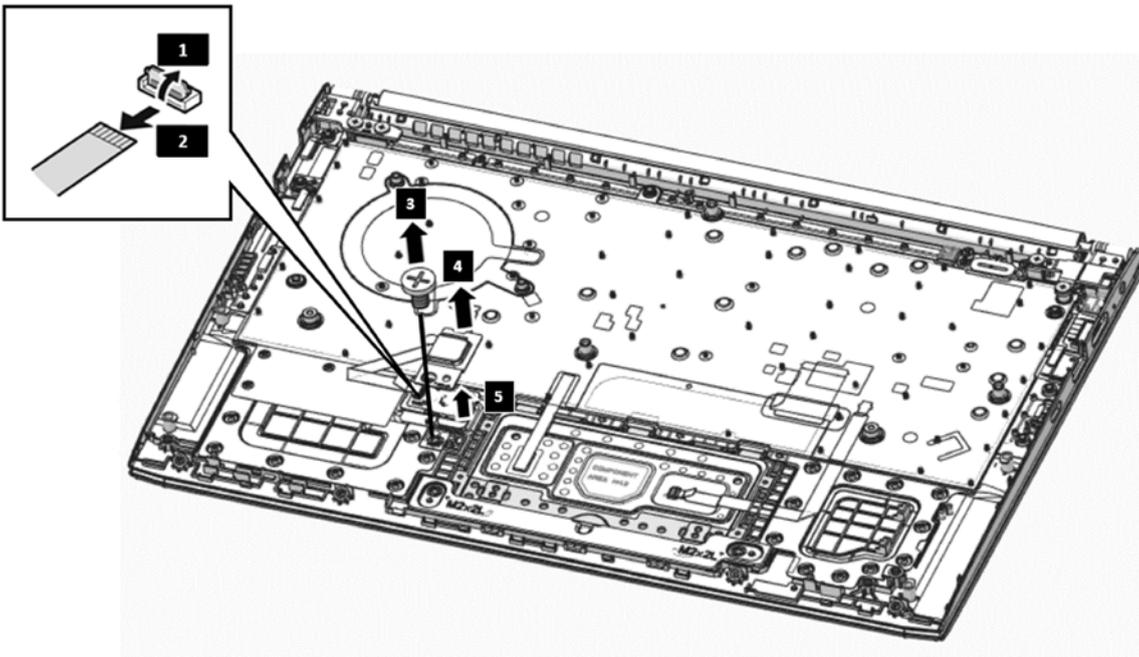


Figure 4-14 Removing the Finger Print Module

Installing the Finger Print Module

Install the finger print module according to the following procedures:

1. Seat the finger print in the correct position on the logic upper assembly ,5.
2. Place the finger print bracket on the logic upper assembly ,4.
3. Tighten one M2×2 screws to secure the finger print bracket to the logic upper assembly ,3.
4. Connect the finger print FFC to the finger print ,1 ,2.

BIT# of screw driver	Screw(quantity)	Color	Torque
#1	M2 x 2 mm, flat-head, nylon-costed (1)	Black	0.181 Nm (1.85 kgf-cm)

4.11 Touch Pad Module

Removing the Touch Pad Module

Remove the touch pad assembly according to the following procedures and Figure 4-15 and Figure 4-16.

1. Disconnect the touch pad FFC from touch pad module ,1 ,2.
2. Peel away the conductive tape ,6 on logic upper assembly from touch pad.
3. Remove the two M2×2 screws securing the tp support bracket to the logic upper assembly ,3.
4. Remove tp support bracket ,4 from the logic upper.
5. Gently push the touch pad away from the logic upper assembly ,5.

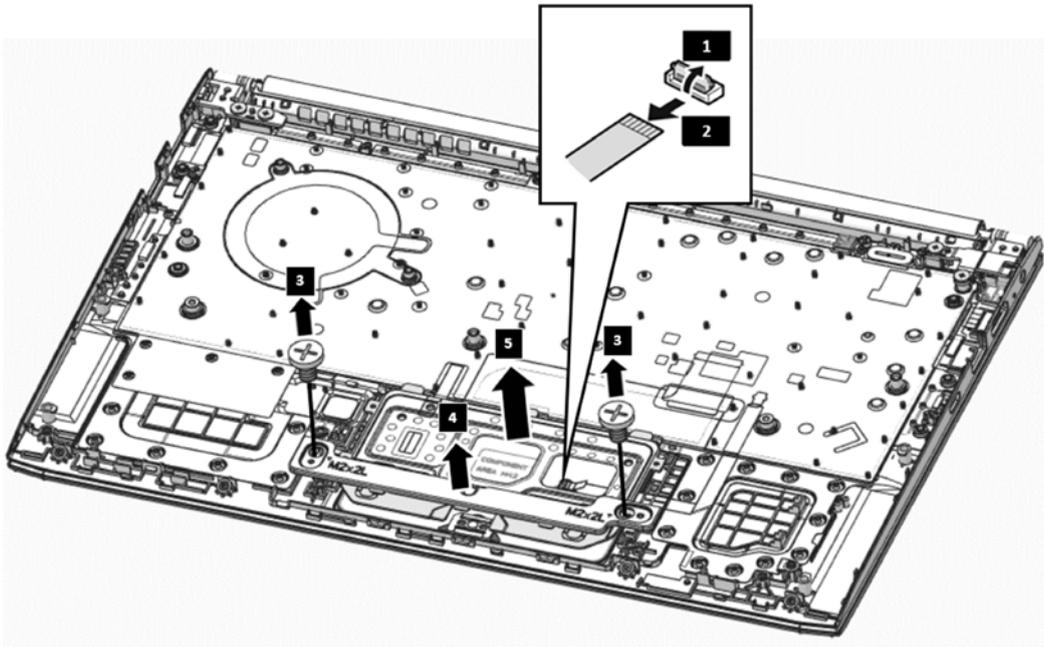


Figure 4-15 Removing the Touch Pad Module

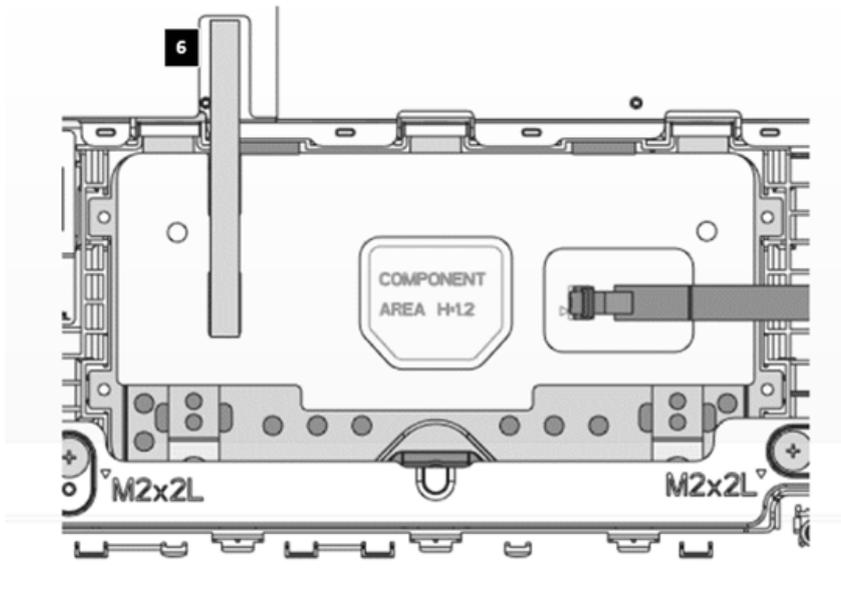


Figure 4-16 Location of Electronic tape & Conductive tape

Installing the Touch Pad Module

Install the touch pad module according to the following procedures:

1. Seat the touch pad in the correct position on the logic upper assembly ,5.
2. Seat the TP support bracket in the correct position on the logic upper assembly ,4 and tighten two M2×2 screws to secure the tp support bracket to the logic upper assembly ,3.
3. Connect the touch pad FPC to the touch pad ,1 ,2.
4. Adhere the conductive tape over the touch pad and logic upper assembly as shown in Figure 4-16 ,6.

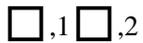
BIT# of screw driver	Screw(quantity)	Color	Torque
#1	M2 x 2 mm, flat-head, nylon-costed (2)	Black	0.181 Nm (1.85 kgf-cm)

4.12 LCD Asswmbly

Removing the LCD Assembly

Remove the LCD assembly according to the following procedures and Figure 4-17 and Figure 4-18.

1. Pull the W-LAN cables and edp cable out of the routing channels as shown in Figure 4-17.



2. Remove the four M2.5x5 screws ,3 securing the LCD assembly as shown in Figure 4-18.
3. Make sure all cables are moved away from the logic upper assembly to avoid damaging the system when removing the LCD assembly. Lift away the LCD assembly from the logic upper assembly as the arrow ,4 indicates in Figure 4-18.

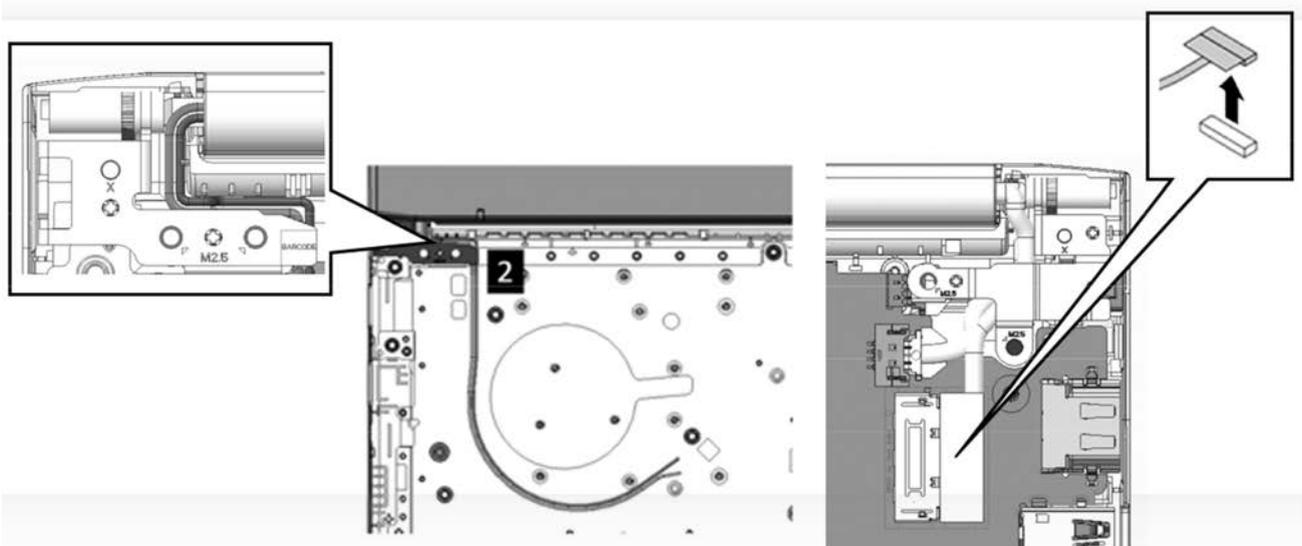


Figure 4-17 W-LAN /edp Cables Routing Channel

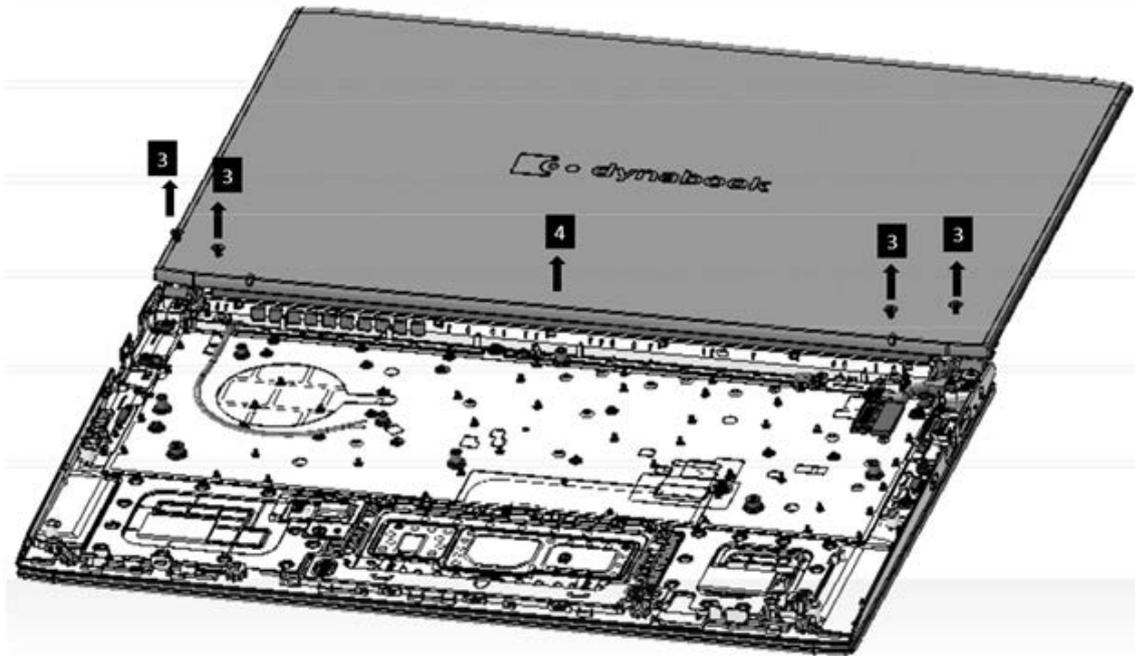


Figure 4-18 Removing the LCD Assembly

Installing the LCD Assembly

NOTE: Take care not to pinch the antenna cables. Make sure the routing positions of the antennas are correct and do not block any components, such as screw holes.

Install the LCD assembly according to the following procedures:

1. Place the logic upper assembly upside down so that the bottom is facing up.
2. Rotate the LCD hinges to a 180-degree angle and seat the LCD assembly in the correct position on the logic upper assembly, and the cables must be placed inside the hook of hinge bracket ,4
3. Tighten the four M2.5×5 screws to secure the LCD assembly to the logic upper assembly as shown in Figure 4-18. ,3
4. Route and secure the W-LAN cables and edp cable in the routing channels on the logic upper assembly as shown in Figure 4-17. ,2 ,1

BIT# of screw driver	Screw (quantity)	Color	Torque
#1	M2.5 x 5mm,flat-head,nylon-coated(4)	Silver	0.294Nm (3.0 kgf-cm)

4.13 Bezel

Removing the Bezel

Remove the Bezel according to the following procedures and Figure 4-19.

1. Place the LCD assembly right-side up so that the top is facing up.
2. Insert a smooth, flat instrument into the gap between the Bezel and the LCD cover as shown in Figure 4-19, and then gently twist the instrument to pry up the Bezel from the LCD cover.

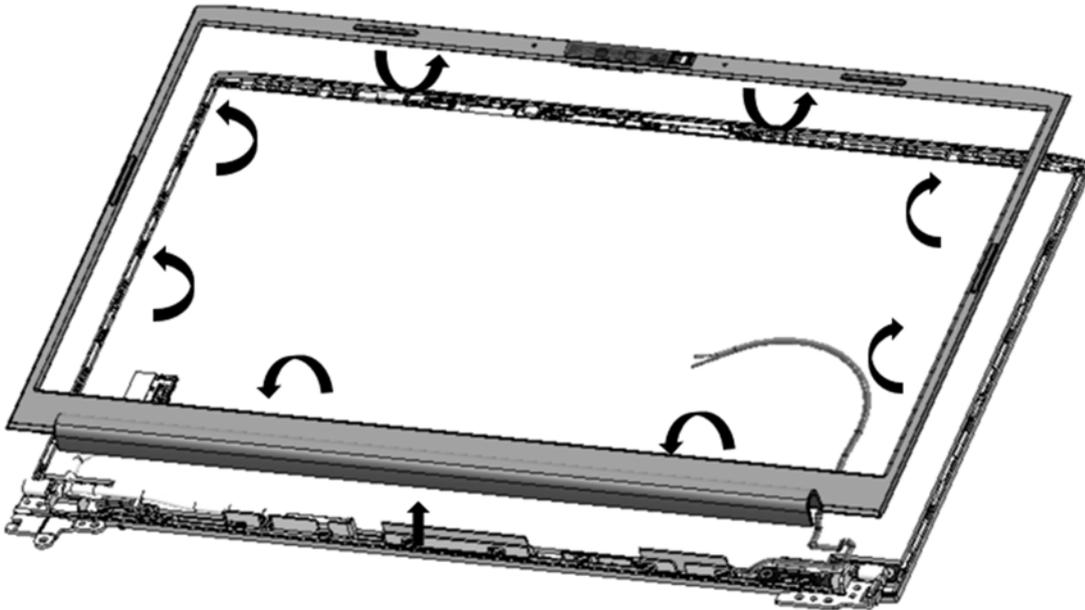


Figure 4-19 Removing the Bezel

Installing the Bezel

Install the Bezel according to the following procedures:

1. Place the Bezel on the LCD cover assembly. Make sure the tabs on the back of the Bezel align with the slots in the LCD cover assembly.
2. Gently press down edges around the Bezel until clicks are heard. Make sure all the snaps are latched and secured.

4.14 Panel Assembly

Removing the Panel Assembly

Remove the panel Assembly according to the following procedures and Figure 4-20 and Figure 4-21 and Figure 4-22 and Figure 4-23.

1. Pull up the adhesive from LCD cover ,1 as shown in Figure 4-20.
2. Carefully lift up and rotate the panel from the LCD assembly as the arrow ,2 indicates in Figure 4-21.
3. Place the panel on a protective surface, such as a foam pad as shown in Figure 4-22.
4. Disconnect the eDP cable FFC from Camera FPC ,3 ,4 ,5 and Gently pry up the Camera FPC ,6 as shown in Figure 4-22.
5. Pull the lock bar outward and disconnect the eDP cable from the touch glass panel ,7 ,8 as shown in Figure 4-23.

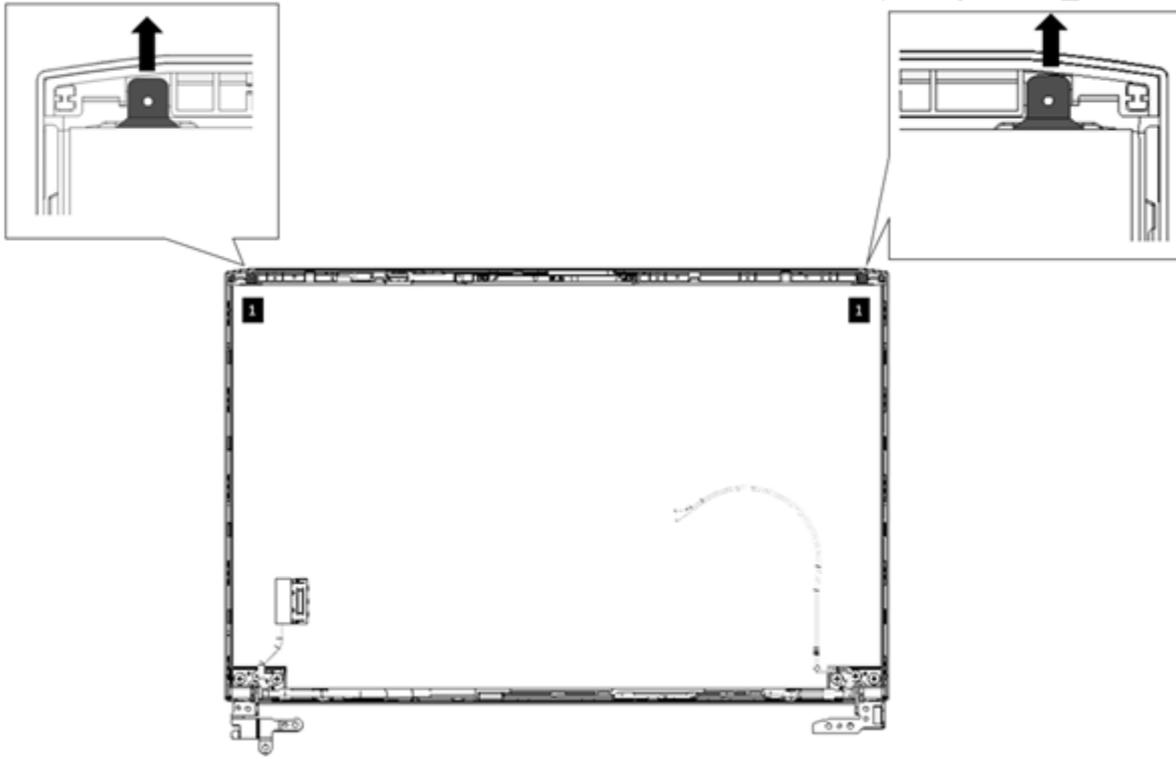


Figure 4-20 Removing the Panel Adhesive

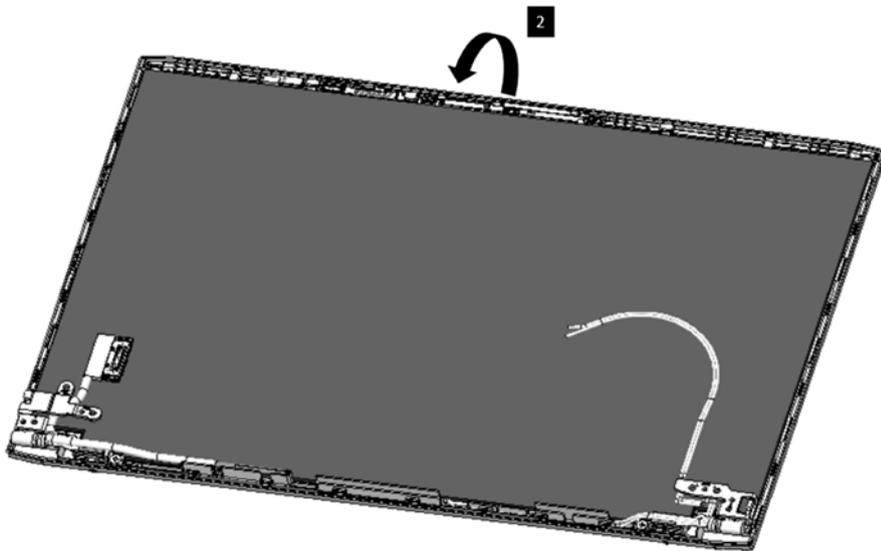


Figure 4-21 Removing the Panel Assembly

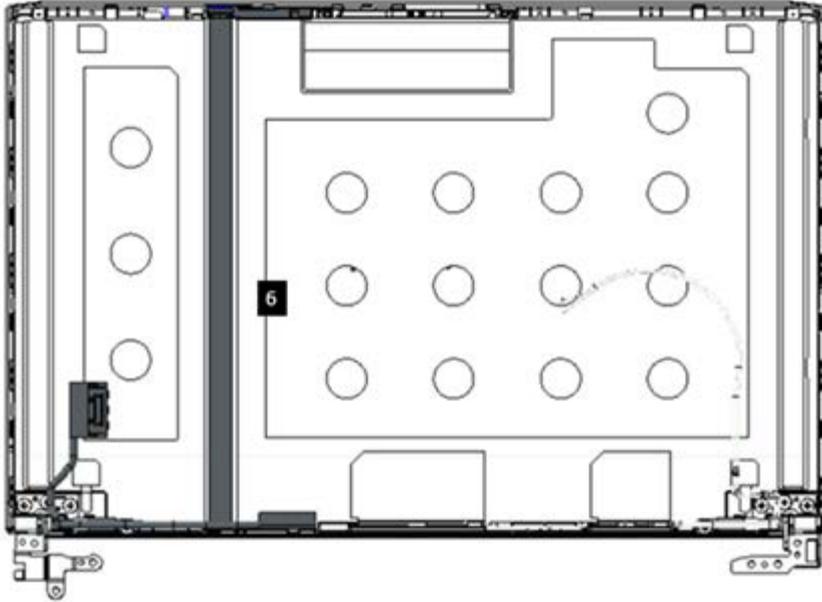
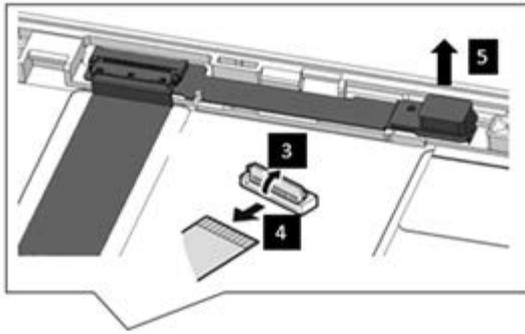


Figure 4-22 Disconnecting the eDP Cables FFC from Camera FPC Assembly

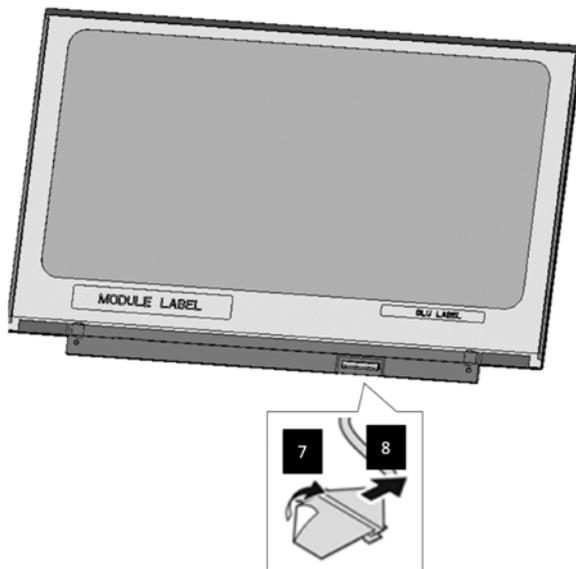
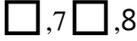
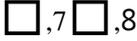
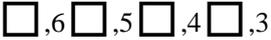


Figure 4-23 Disconnecting the Cables from Panel Assembly

Installing the Panel Assembly

Install the panel assembly according to the following procedures:

1. Place the panel assembly upside down so that the bottom is facing up.
2. Connect the eDP cable to the panel connector and lock it with lock bar, then adhere the mylar over the connector to secure it in place as shown in Figure 4-23.  ,7  ,8
3. Connect the eDP cable FFC to the camera FPC board connector as shown in Figure 4-22.  ,6  ,5  ,4  ,3
4. Pull up the blue release paper of Panel Adhesive from LCD cover as shown in Figure 4-24.  ,2
5. For Panel P30 type : Rotate the panel right-side up and use 0.5mm Mylar between LCD cover and Panel to seat it in the correct position as shown in Figure 4-25.  ,1
6. For Panel P20 type : Rotate the panel right-side up and use 1.25mm Mylar between LCD cover and Panel to seat it in the correct position as shown in Figure 4-26.  ,1

Resolution	Vendor	LCM model name	Type
13.3" HD,TN,220 nits,3.0t(1366x768)	BOE	NT133WHM-N45	P30
13.3" FHD,IPS,250nits,3.0t	BOE	NV133FHM-N43	
	INX	N133HCE-EAA	
13.3" FHD,IPS,470nits,2.0t	Sharp	LQ133M1JW41	P20
	Sharp	LQ133M1JW64	

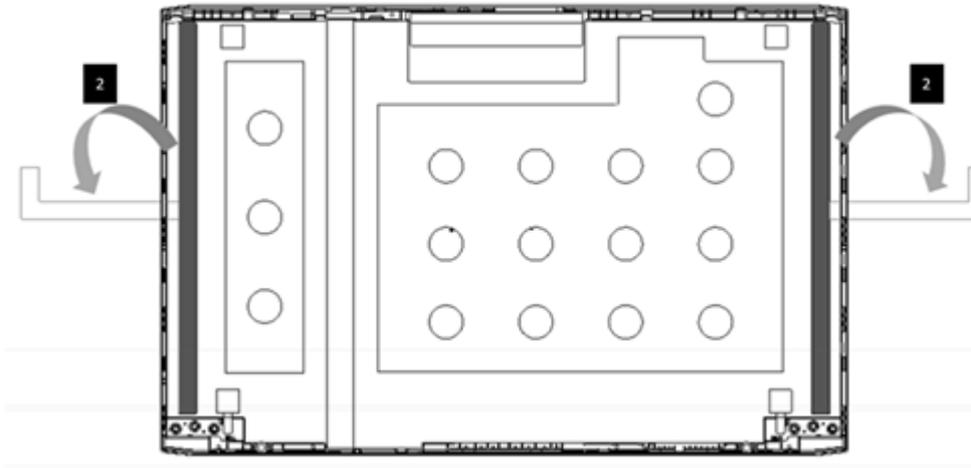


Figure 4-24 Removing the Release Paper of Panel Adhesive

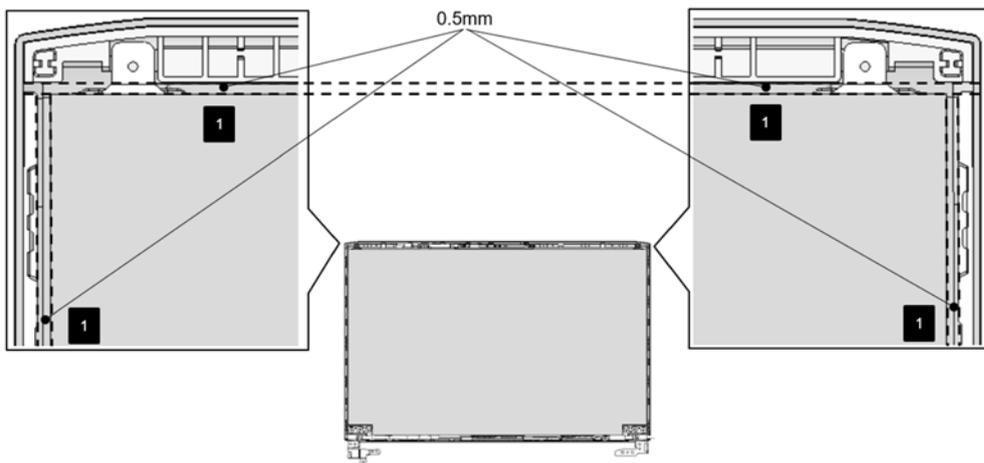


Figure 4-25 Panel assembly explanation (For P30)

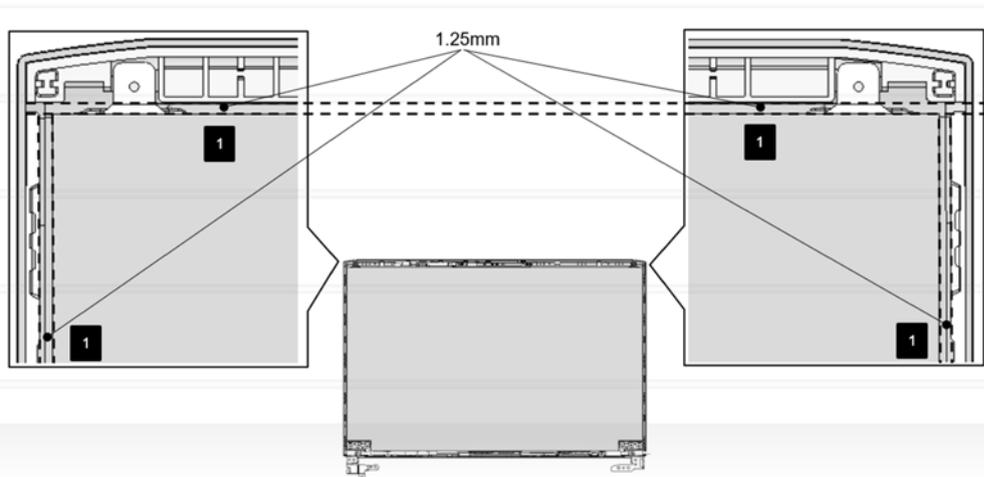


Figure 4-26 Panel assembly explanation (For P20)

4.15 Antenna Module

Removing the Antenna module

NOTE: Antenna module is fastened by adhesives. Remove it slowly and carefully.

Remove the Antenna module according to the following procedures and Figure 4-27.

1. Removing the Antenna cable from the adhesive and remove it from the Hinge ,1
2. Gently pry up the Cu-Foil from the adhesive and remove it from the LCD cover ,2.
3. Removing the Antenna module from the adhesive and remove it from the LCD cover ,3
4. Removing the Antenna module cable from the LCD cover ,4 ,5
5. Gently pry up the Cu-Foil from the adhesive and remove it from the LCD cover ,6.
6. Removing the Antenna module from the adhesive and remove it from the LCD cover ,7

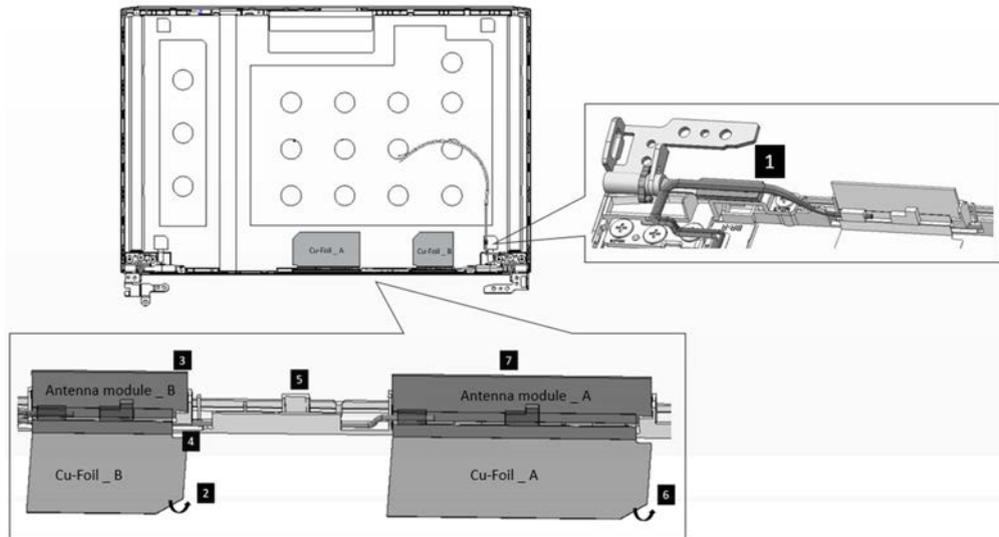


Figure 4-27 Removing the Antenna module

Installing the Antenna Module

Install the Antenna module according to the following procedure:

1. Seat the Antenna module_A in the correct position and secure it in place with adhesives behind it. ,7
2. Pasting the Cu-Foil_A in the correct position. ,6
3. Seat the Antenna cable in the correct position and secure it in place. ,4,5
4. Seat the Antenna module_B in the correct position and secure it in place with adhesives behind it. ,3
5. Pasting the Cu-Foil_B in the correct position. ,2
6. Seat the Antenna cable in the correct position and secure it in place with adhesives behind it. ,1

4.16 Camera Module

Removing the Camera Module

NOTE: Camera module is fastened by adhesives. Remove it slowly and carefully.

Remove the camera module according to the following procedures and Figure 4-28.

1. Gently pry up the camera module and remove it from the LCD cover ,1.

*Camera module is fixed by adhesive on the LCD cover.

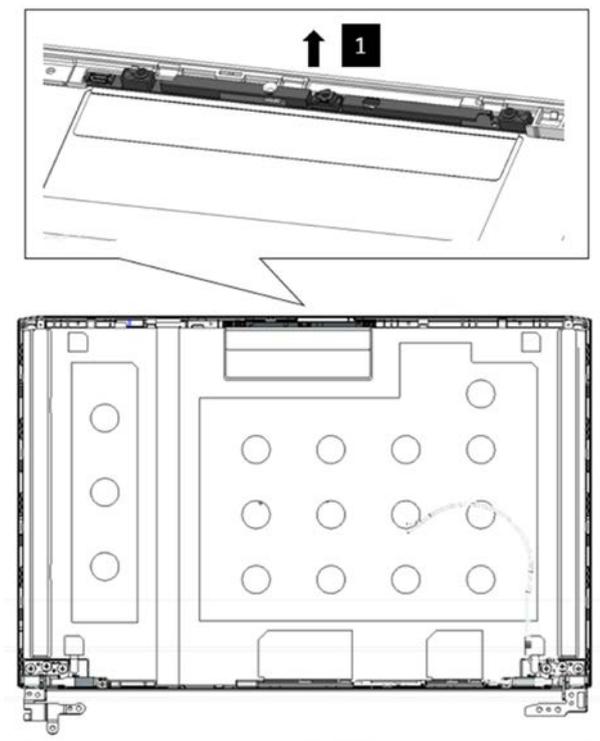


Figure 4-28 Removing the Camera Module

Installing the Camera Module

Install the camera module according to the following procedure:

1. Seat the camera module in the correct position and secure it in place with adhesives behind it. ,1

4.17 LCD Hinges

Removing the LCD Hinges

Remove the LCD hinges according to the following procedures and Figure 4-29.

1. Remove the six M2×2.5 screws securing the LCD hinges ,1.
2. Remove the two M2×3 screws securing the LCD hinges ,2.

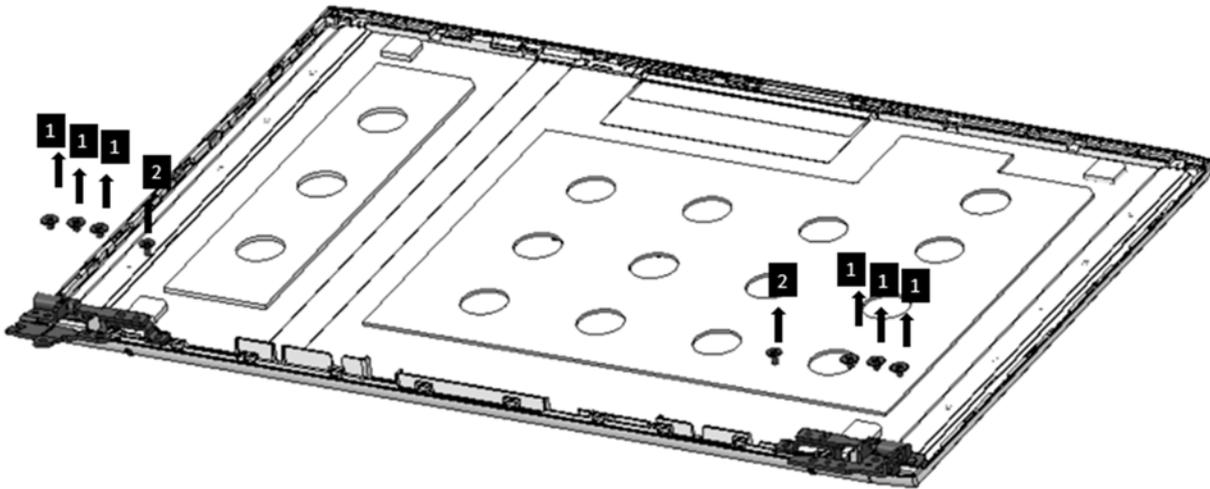


Figure 4-29 Removing LCD Hinges

Installing the LCD Hinges

Install the LCD hinges according to the following procedures:

1. Tighten the six M2×2.5 screws to secure the LCD hinges to the hinge cover assembly. ,1
2. Tighten the two M2×3 screws to secure the LCD hinges to the hinge cover assembly. ,2

BIT# of screw driver	Screw (quantity)	Color	Torque
#1	M2 x 2.5mm,flat-head,nylon-coated(4)	Silver	0.181Nm (1.85kgf-cm)
#1	M2 x 3mm,flat-head,nylon-coated(4)	Black	0.181Nm (1.85kgf-cm)

Installing the Panel Assembly

Install the panel assembly according to the following procedures:

1. Seat and adhere the Hinges in the correct position on the LCD cover assembly as shown in Figure 4-29 (Tighten the six M2×2.5 screws).
2. Seat and adhere the antennas in the correct position on the LCD cover assembly as shown in Figure 4-29 (. (Tighten the two M2×3.0 screws)
3. Seat and adhere the Camera in the correct position on the LCD cover assembly as shown in Figure 4-28.
4. Seat and adhere the Antenna module in the correct position on the LCD cover assembly as shown in Figure 4-27.
5. Place the panel assembly upside down so that the bottom is facing up.
6. Connect the eDP cable to the panel connector and lock it with lock bar, then adhere the mylar over the connector to secure it in place as shown in Figure 4-23.
7. Connect the eDP cable FFC to the camera FPC board connector as shown in Figure 4-22.
8. Pull up the blue release paper of Panel Adhesive from LCD cover as shown in Figure 4-24.
9. For Panel P30 type: Rotate the panel right-side up and use 0.5mm Mylar between LCD cover and Panel to seat it in the correct position as shown in Figure 4-25.
10. For Panel P20 type: Rotate the panel right-side up and use 1.25mm Mylar between LCD cover and Panel to seat it in the correct position as shown in Figure 4-26.

AC Adapter, External cables provided with the AC adapter and USB cables

The AC adapter as well as all external cables provided with the notebook including the AC adapter cables and USB cables should be segregated and sent for shredding.

The following components contained within the AC adapter potentially contain hazardous substances and require special handling:

- Printed Circuit Board >10 cm²
- Capacitor >25 mm in height

Photos of the AC adapter and the components noted above are included below.
The notebook has one of two types of AC adapter.

USB connection type



AC adapter



AC Adapter with casing removed



AC Adapter printed circuit board

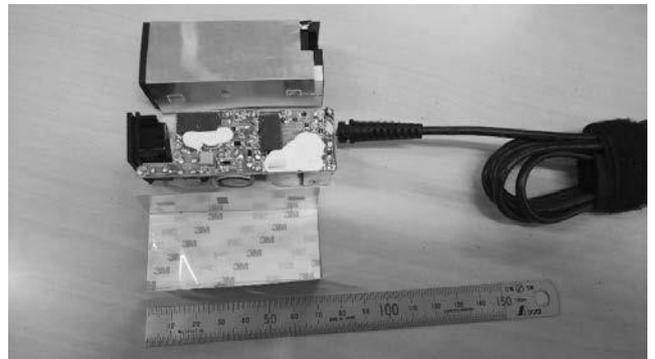


AC adapter capacitor

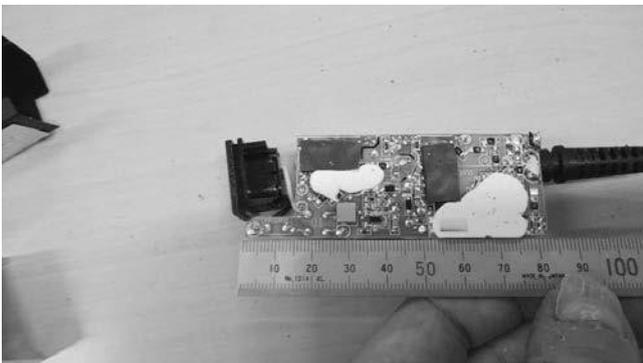
Conventional type



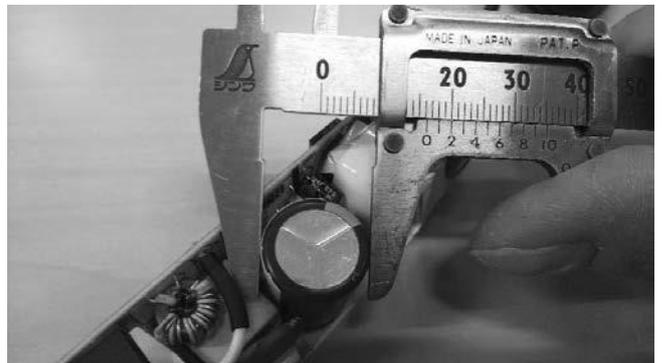
AC adapter



AC Adapter with casing removed



AC adapter printed circuit board



AC adapter capacitor