

E24264

First Edition / March 2025

# IN SEARCH OF INCREDIBLE



Service Manual



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# ***Chapter 1:***

## ***Introduction***

## Disclaimer

ASUS is not responsible for direct, indirect, intentional or unintentional damages resulting from improper installation and operation.

## Safety precautions

- Before handling components, use a grounded wrist strap or touch a safely grounded object to avoid damaging them due to static electricity.
- Keep liquids or moisture away from your device to avoid short circuits.
- Remove rings, watches, and any other metal objects from your hands.
- Hold components by the edges to avoid touching the ICs.
- Properly install all components before connecting the AC power.
- Do not use power adapters or batteries from other devices to reduce the risk of injury to persons due to fire or explosion. Use only certified power adapters or batteries supplied by the manufacturer or authorized retailers.
- Detach all clips or flaps before removing cables to prevent damage.

- Disconnect cables, connectors, and power plugs by pulling the plug evenly to avoid damage.
- Use the correct screw models on your device to prevent damage.
- Confirm that the cable orientation is correct before connecting any cables.
- Fully remove all adhesive residue after removing and before installing any components.
- Photograph the appearance of cables, cable routing, connectors, and screws for later reference before proceeding with each step.

## Pre-repair checklist

- Read the entire manual before starting any service procedures and follow all instructions.
- Back up the data on your device.
- Place your device on a clean and stable surface.
- Turn off your device.
- Disconnect all connected peripherals and cables.
- Disconnect all power cables and remove the battery pack (if applicable).

---

### IMPORTANT!

- If you are uncertain about performing the described service procedures, stop and contact an authorized service center for assistance.
- Purchase replacement components from authorized retailers of this device to ensure maximum compatibility and reliability.

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### NOTE:

- The illustrations are for reference only.
  - The service procedures described in this manual depend on the model configuration and may not reflect the entire servicing process. To service components that are not covered in this manual, please visit an authorized service center for further assistance.
  - Keep all adhesive tape, insulating materials, screws, and other removable items in a safe place until the service procedure is completed, as they may be needed during installation.
-



## Repair tools



**Screwdriver**



**Plastic blade**



**Tweezers**

## Accessories



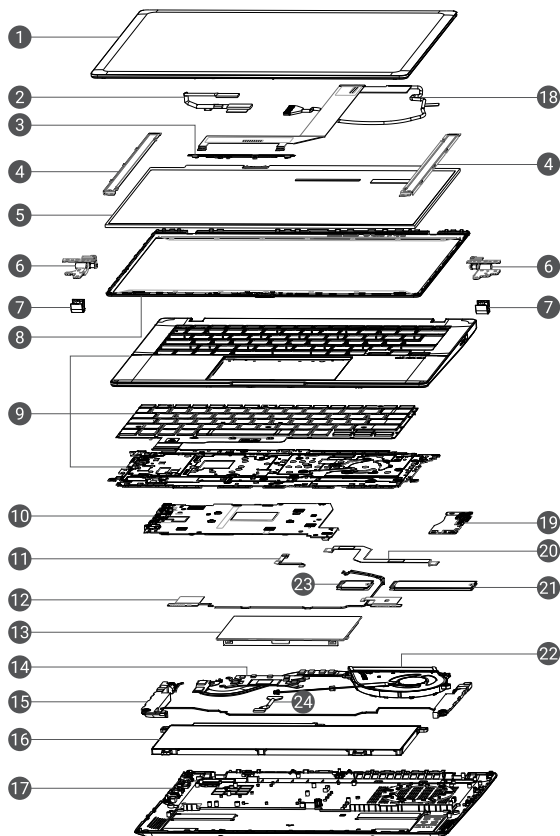
**Power adapter**

## Diagnostic tools

Use ASUS System Diagnostics after completing any service procedures to ensure that all components are working properly.

For more information, visit [www.asus.com/support/FAQ/1048490/](http://www.asus.com/support/FAQ/1048490/).

## Major components



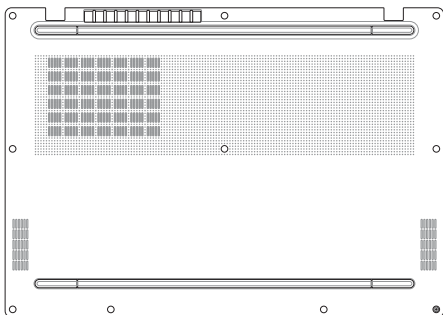
- |                     |                         |
|---------------------|-------------------------|
| 1. Top cover        | 13. Touchpad            |
| 2. eDP cable        | 14. Heat sink           |
| 3. Camera module    | 15. Speakers            |
| 4. Display brackets | 16. Battery             |
| 5. Display panel    | 17. Bottom cover        |
| 6. Display hinges   | 18. Camera cable        |
| 7. Hinge caps       | 19. I/O board           |
| 8. Display bezel    | 20. I/O board cable     |
| 9. Keyboard module  | 21. M.2 SSD module      |
| 10. Motherboard     | 22. Fan                 |
| 11. Touchpad cable  | 23. WLAN module         |
| 12. Antenna cables  | 24. Battery power cable |

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

## ***Chapter 2:***

## ***Service Procedures***

## Bottom cover



## Before you begin

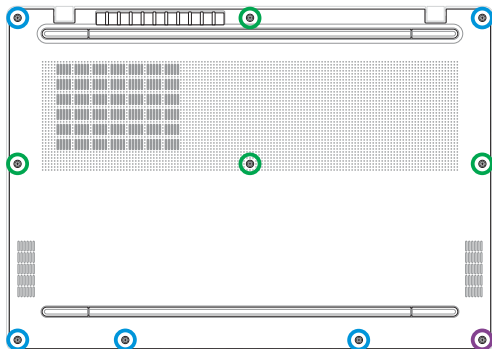
Read the **Safety Precautions** and complete the **Pre-repair Checklist**.

## Screw list

- ⊕ M2.0 X 7.0L (4pcs)
- ⊕ M2.0 X 4.0L (5pcs)
- ⊕ M2.0 X 4.0L captive screw (1pc)

## Removal

1. Remove the screw(s) from the bottom cover.
2. Loosen the captive screw located at the bottom right corner of the bottom cover.



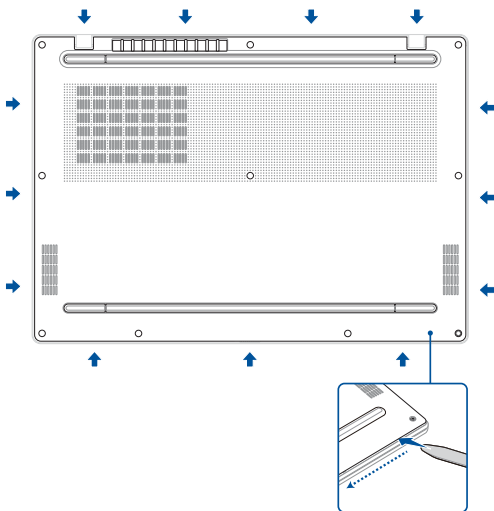
3. Use the plastic blade to pry open the indicated area of the bottom cover as shown in the illustration below.

---

**IMPORTANT!** Avoid sliding the plastic blade along the side of your device or air vents to prevent damage.

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4. Remove the bottom cover.





## Installation

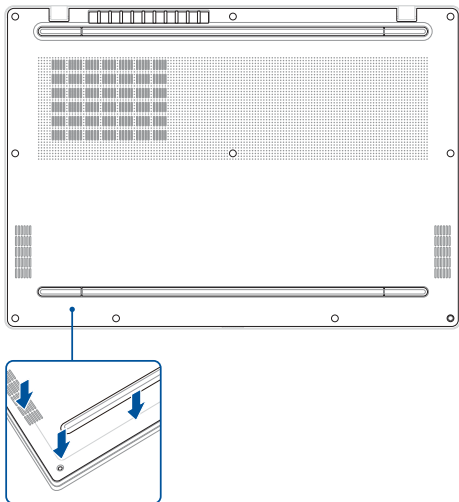
1. Install the bottom cover.

---

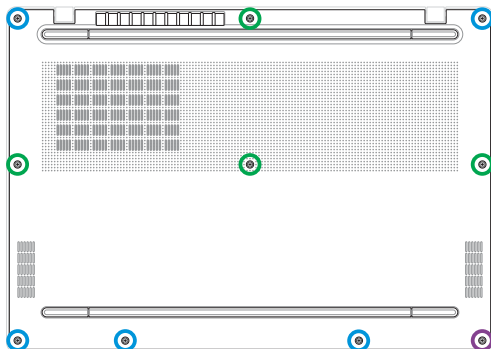
**NOTE:** When replacing the existing component with a new one, ensure you move the washer from the old component to the new bottom cover.

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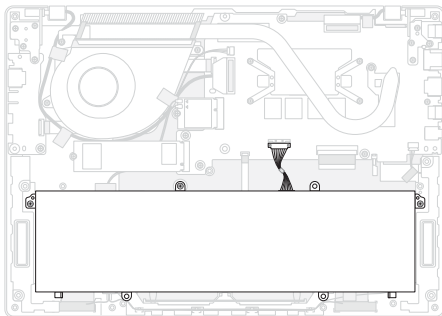
2. Gently press down on the bottom cover until it clicks into place.



3. Tighten the captive screw located at the bottom right corner of the bottom cover.
4. Secure the bottom cover using the screw(s) you removed earlier.



# Battery



## Before you begin

1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover.

## Screw list

- ⊕ M2.0 X 3.5L (3pcs)

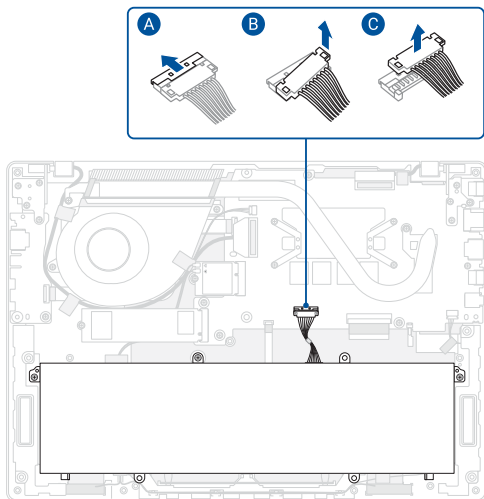
## Removal

1. Disconnect the battery power cable.

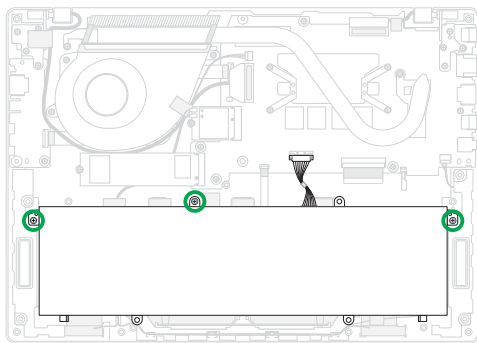
---

### IMPORTANT!

- Disconnect the battery power cable by lifting the side with the red wires first.
  - Serious risk of fire or explosion may occur if the battery is punctured. If you are uncertain about proceeding, stop and contact an authorized service center for assistance.
- 



2. Remove the screw(s).
3. Remove the battery.

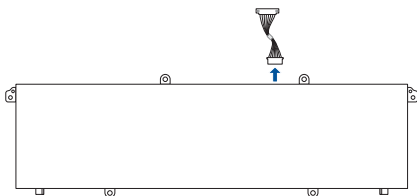


4. Remove the battery power cable (if applicable).

---

**NOTE:** This step is only required when you are replacing the existing component with a new one.

---



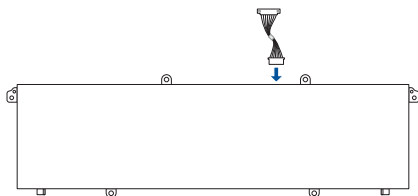
## Installation

1. Connect the battery power cable to the battery (if applicable).

---

**NOTE:** This step is only required when you are replacing the existing component with a new one.

---

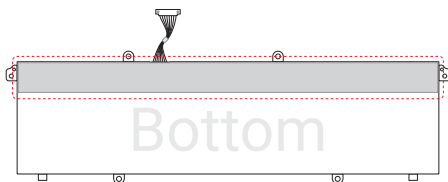


2. Attach the polyester film to the rear side of the battery as shown.

---

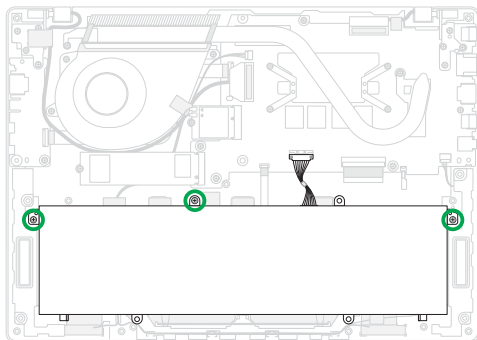
**NOTE:** This step is only required when you are replacing the existing component with a new one.

---

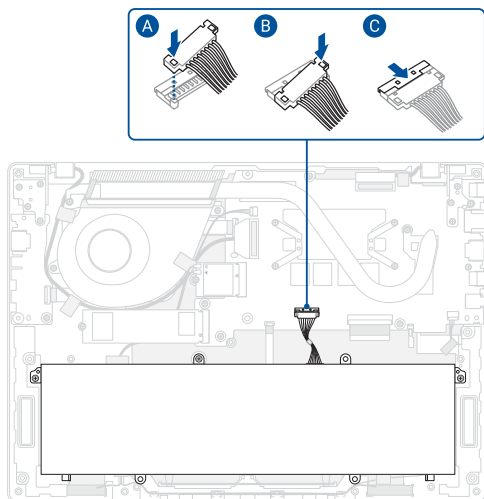




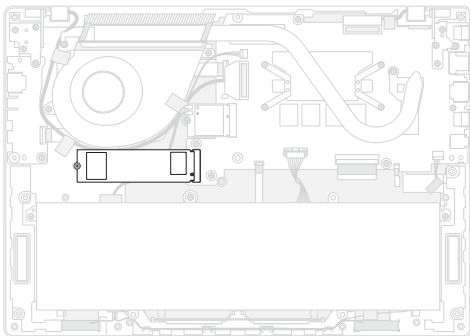
3. Install the battery.
4. Secure the battery using the screw(s) you removed earlier.



5. Reconnect the battery power cable.
6. Install the components you removed in the *Before you begin* section.



## M.2 SSD module



### Before you begin

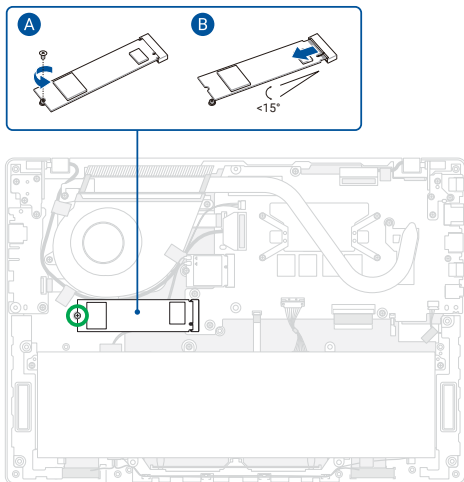
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.

### Screw list

- ⊕ M2.0 X 2.0L (1pc)

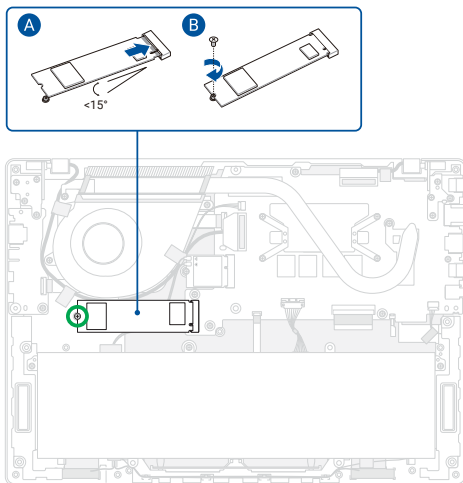
## Removal

Remove the screw, then remove the M.2 SSD module from the motherboard.

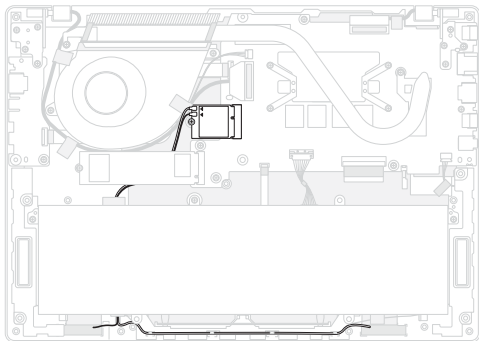


## Installation

1. Align and insert the M.2 SSD module into the M.2 connector on the motherboard, then secure the M.2 SSD module using the screw you removed earlier.
2. Install the components you removed in the *Before you begin* section.



## WLAN module



### Before you begin

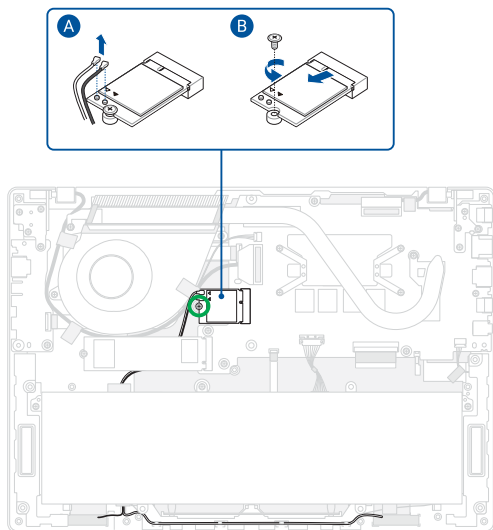
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.

### Screw list

- ⊕ M2.0 X 2.0L (1pc)

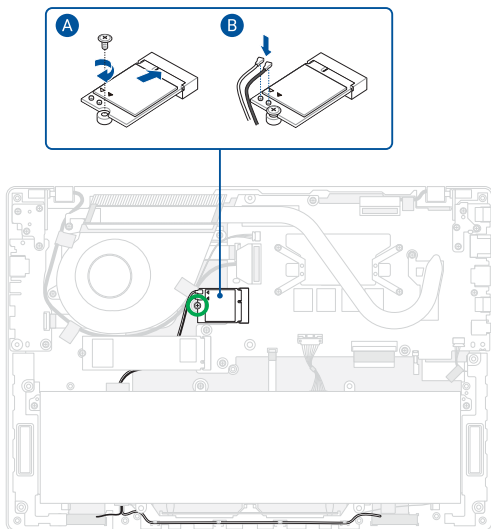
## Removal

Disconnect the antenna cable(s), then remove the screw and remove the WLAN module.



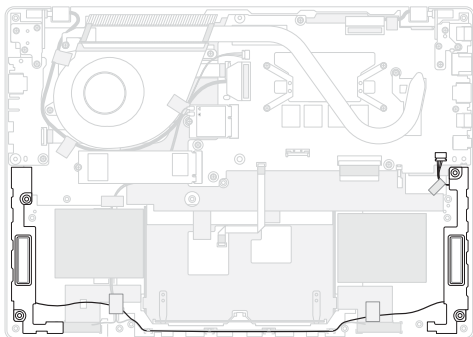
## Installation

1. Install the WLAN module, then secure the WLAN module using the screw you removed earlier and reconnect the antenna cable(s).
2. Install the components you removed in the *Before you begin* section.





# Speakers



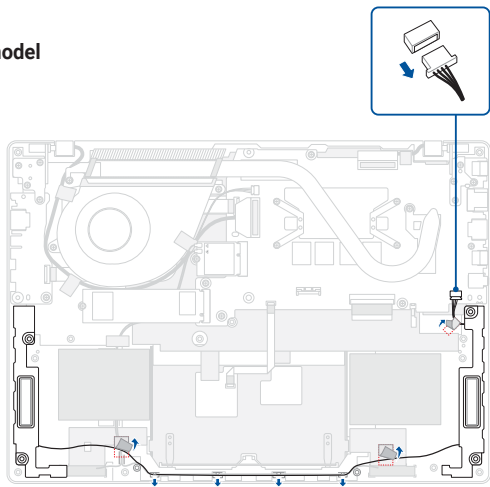
## Before you begin

1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
  - Battery

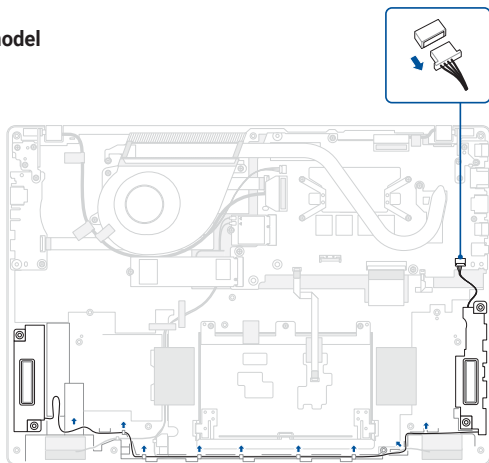
## Removal

1. Disconnect the speaker connector.
2. (On 14" model) Remove the tape.
3. Remove the speaker cable from the cable guide(s), then remove the speakers.

## 14" model



## 16" model



## Installation

1. Install the speakers, then route the speaker cable through the cable guide(s).

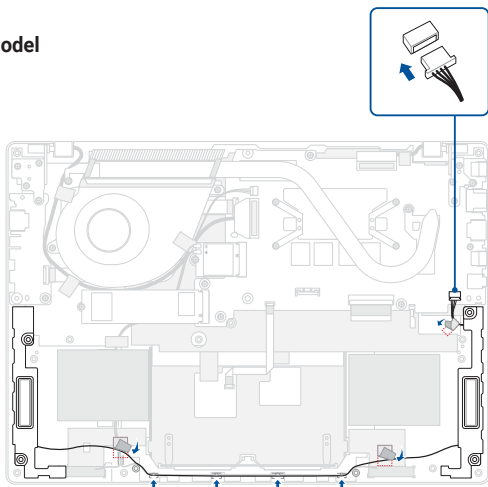
---

**IMPORTANT!** Damage may occur if cables are not properly routed through the cable guides. Confirm that all cables are routed through each of the indicated cable guides before proceeding.

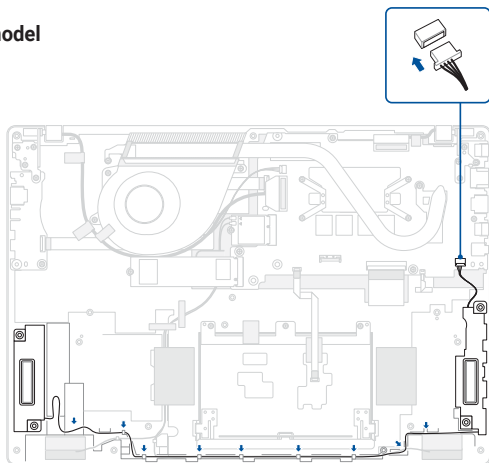
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2. (On 14" model) Reattach the tape.
3. Reconnect the speaker connector.
4. Install the components you removed in the *Before you begin* section.

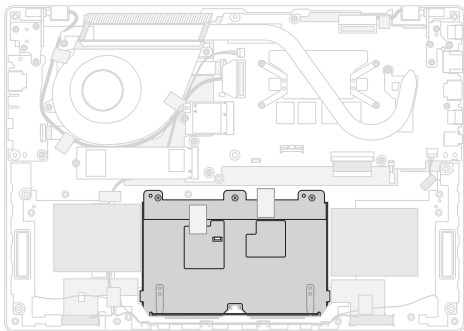
### 14" model



## 16" model



# Touchpad



## Before you begin

1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
  - Battery

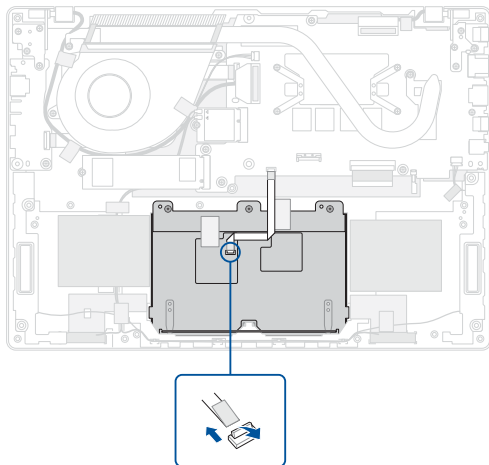
## Screw list

- ⊕ M1.6 X 1.6L (3pcs)

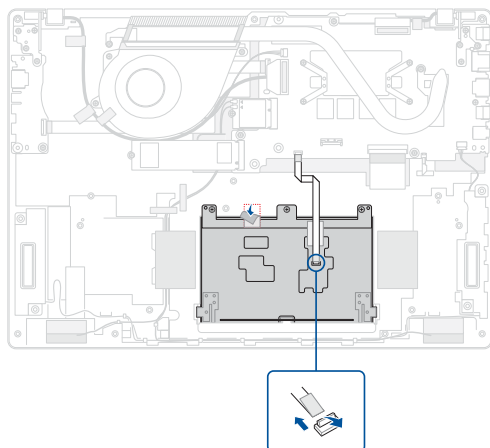
## Removal

1. Disconnect the cable.
2. (On 16" model) Remove the tape.

### 14" model



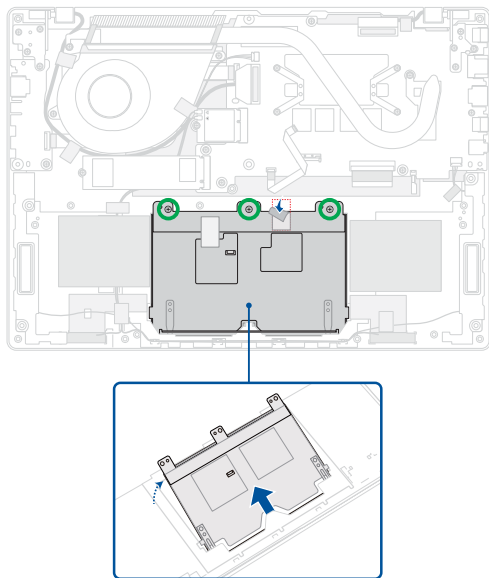
## 16" model



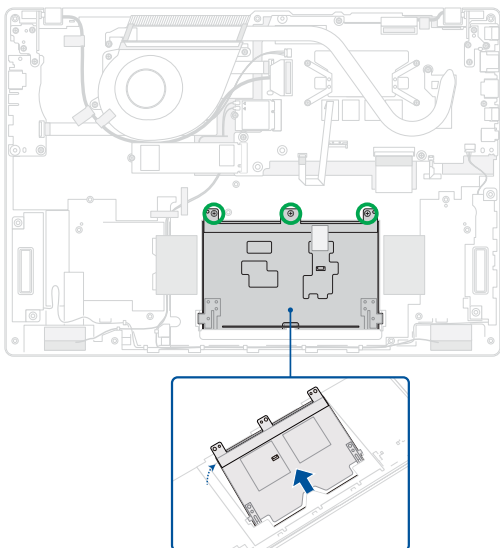


3. (On 14" model) Remove the tape.
4. Remove the screw(s), then remove the touchpad.

### 14" model



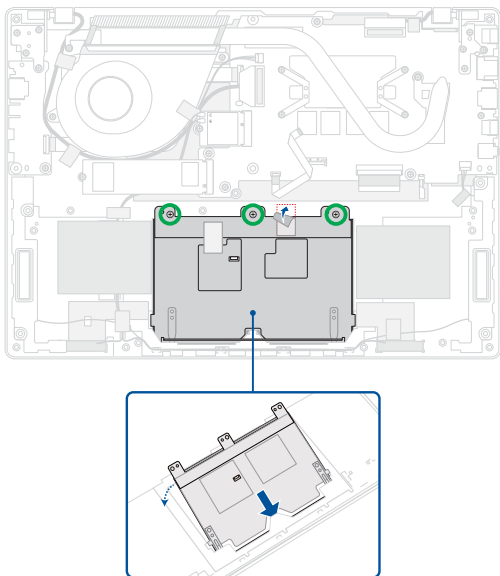
## 16" model



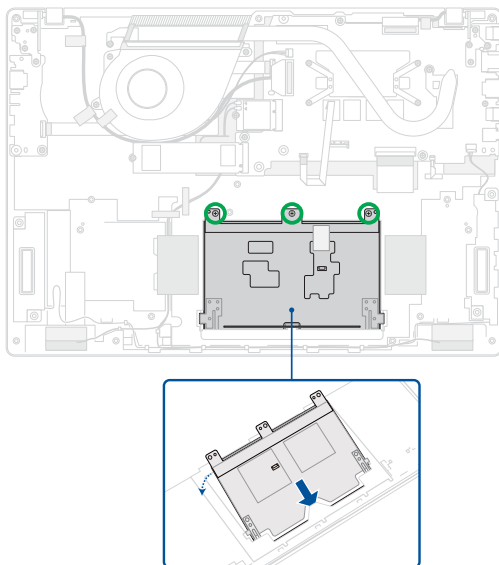
## Installation

1. Align and install the touchpad as shown in the illustration below, then secure the touchpad using the screw(s) you removed earlier.
2. (On 14" model) Reattach the tape.

### 14" model

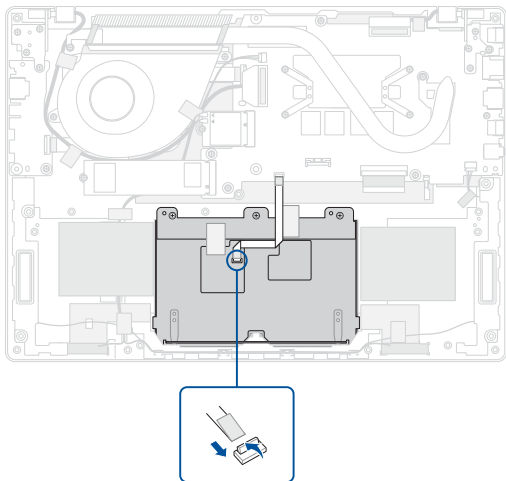


## 16" model

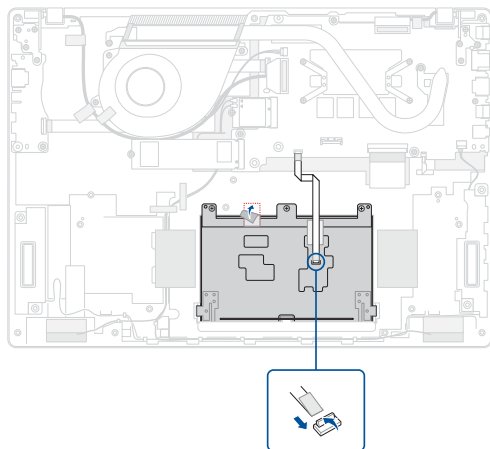


3. Reconnect the cable.
4. (On 16" model) Reattach the tape.
5. Install the components you removed in the *Before you begin* section.

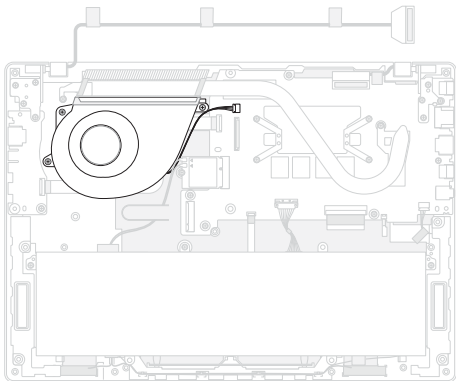
## 14" model



## 16" model



## Fan module



### Before you begin

1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
  - M.2 SSD module

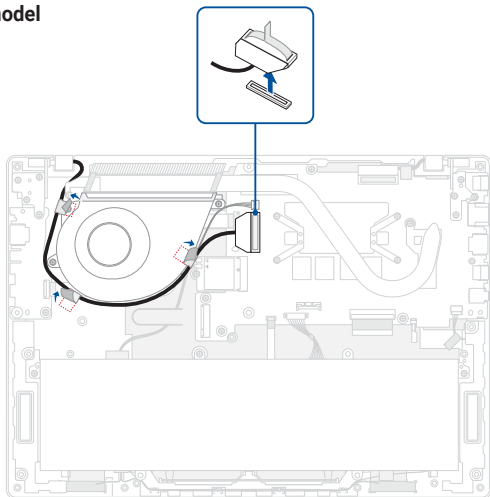
### Screw list

- ⊕ M2.0 X 3.5L (3pcs)

## Removal

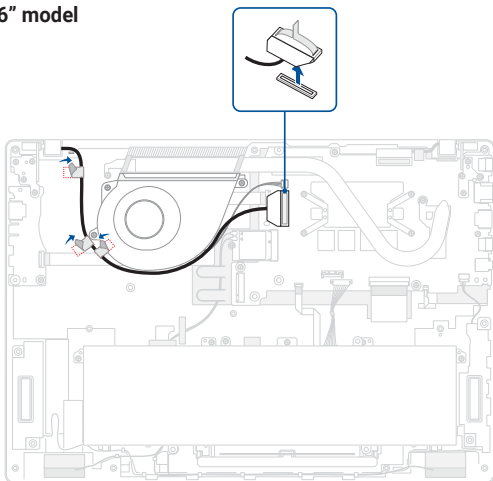
1. Disconnect the cable and remove the tape.

### 14" model



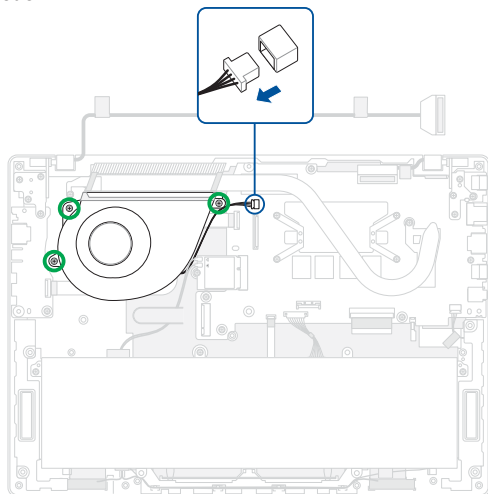


## 16" model

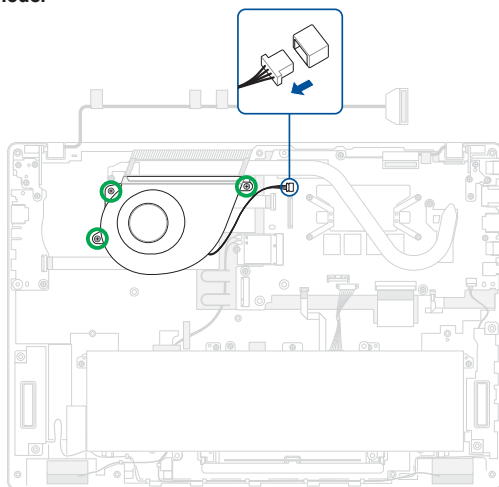


2. Disconnect the fan connector.
3. Remove the screw(s).
4. Remove the fan.

## 14" model



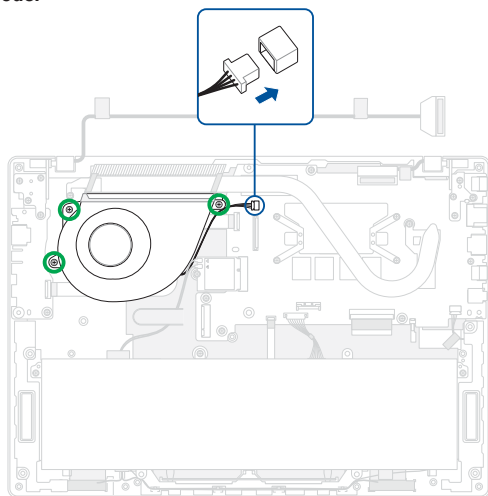
## 16" model



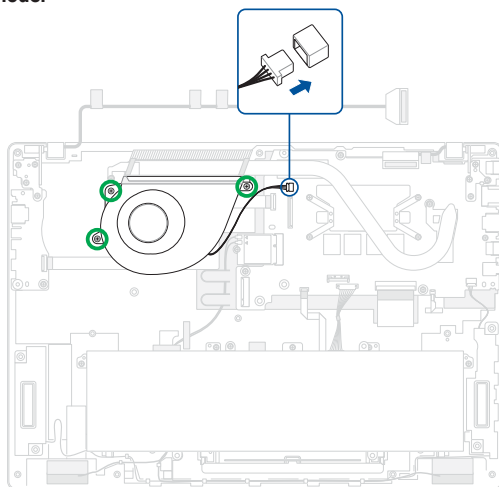
## Installation

1. Install the fan.
2. Secure the fan using the screw(s) you removed earlier.
3. Reconnect the fan connector.

### 14" model

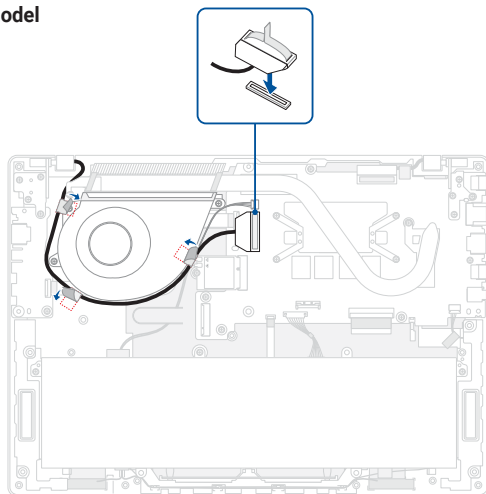


## 16" model



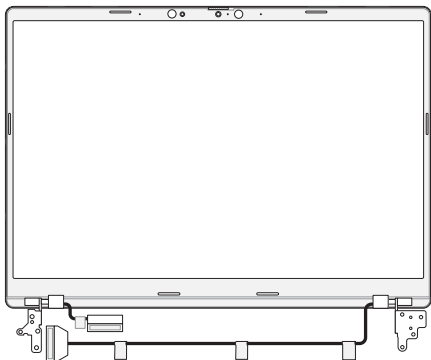
4. Route and reconnect the cable as shown, then reattach the tape.
5. Install the components you removed in the *Before you begin* section.

### 14" model





## Display panel module



### Before you begin

---

**IMPORTANT!** Do not bend the display panel in any way to avoid risk of display panel leakage.

---

1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
  - M.2 SSD module

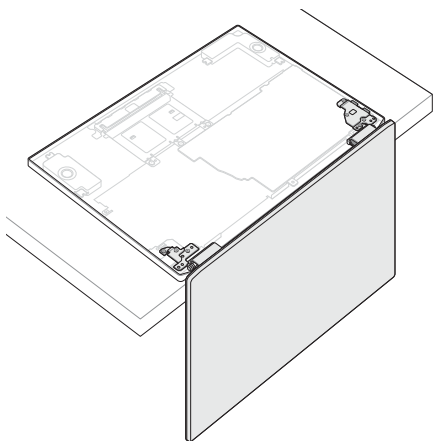
### Screw list

- ⊕ M2.5 X 4.5L (5pcs)
- ⊕ M2.5 X 3.5L (3pcs)



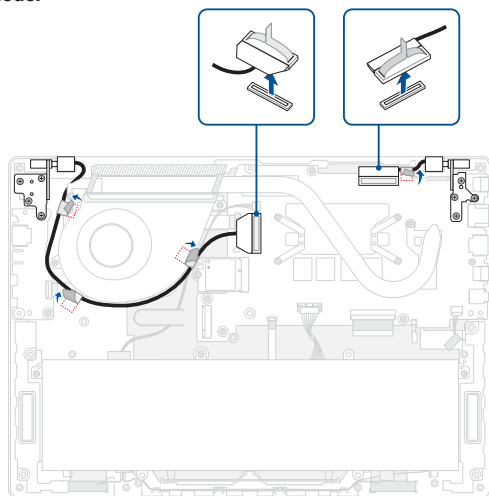
## Removal

1. Place your device with the display panel hanging over the edge of the workspace as shown in the illustration below.

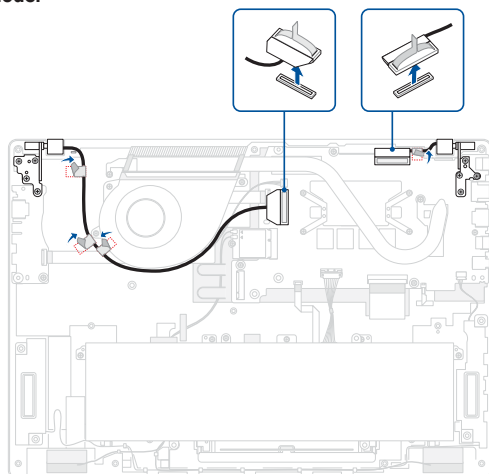


2. Disconnect the cable(s) and remove the tape.

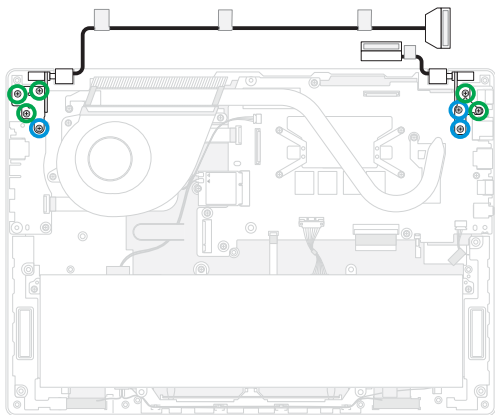
### 14" model



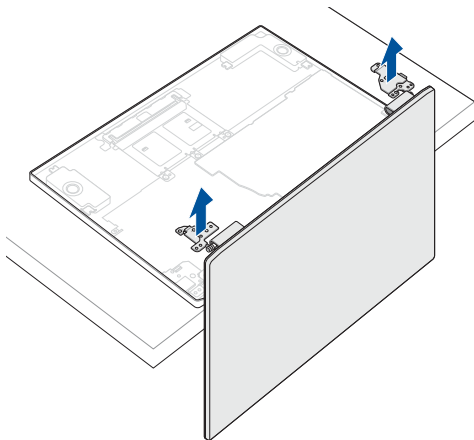
## 16" model



3. Remove the screw(s).

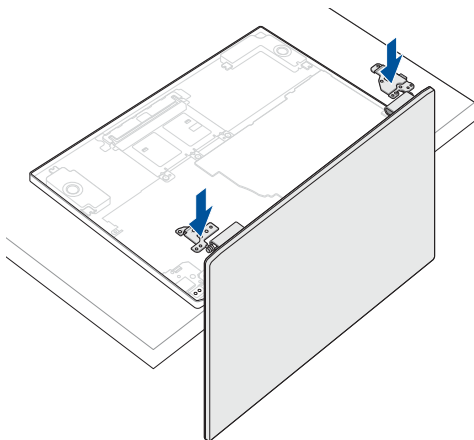


4. Remove the display panel module.

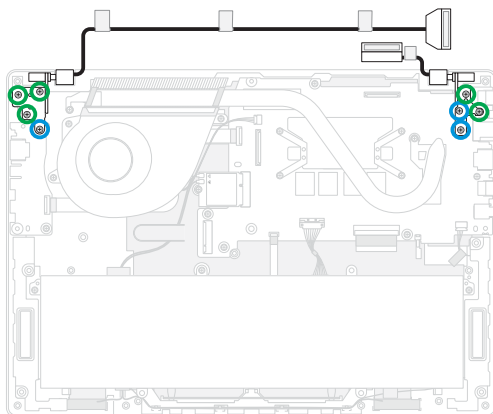


## Installation

1. In the orientation shown, align and place the hinges of the display panel module on the screw holes.



2. Secure the hinges using the screw(s) you removed earlier.



3. Route and reconnect the cable(s) as shown, then reattach the tape.

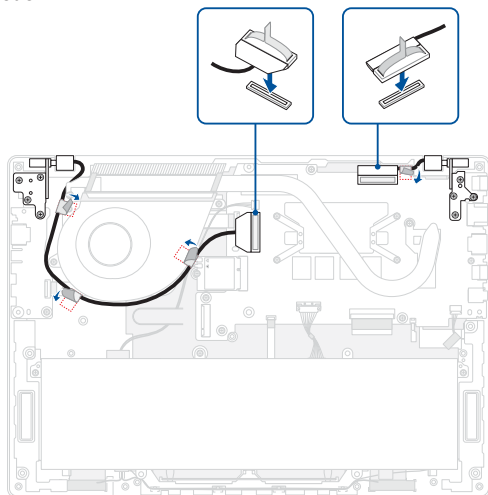
---

**IMPORTANT!** Damage may occur if cables are not properly routed through the cable guides. Confirm that all cables are routed through each of the indicated cable guides before proceeding.

---

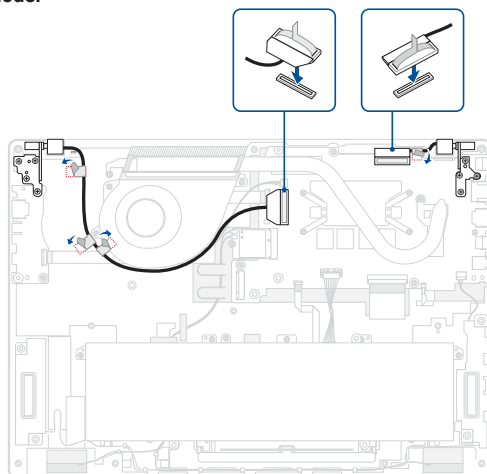
4. Install the components you removed in the *Before you begin* section.

#### 14" model

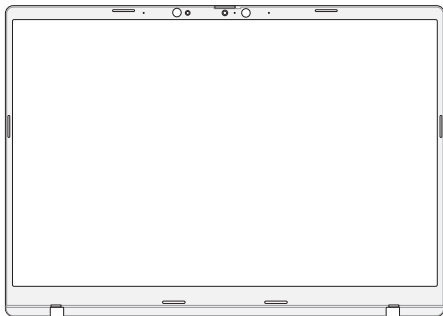




## 16" model



## Display bezel



### Before you begin

---

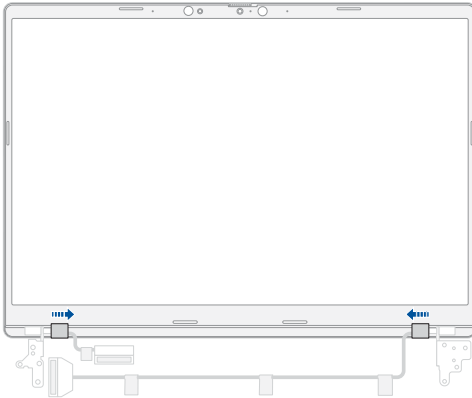
**IMPORTANT!** This component is fragile. Damage may occur if the service procedure is performed incorrectly. If you are uncertain about proceeding, stop and contact an authorized service center for assistance.

---

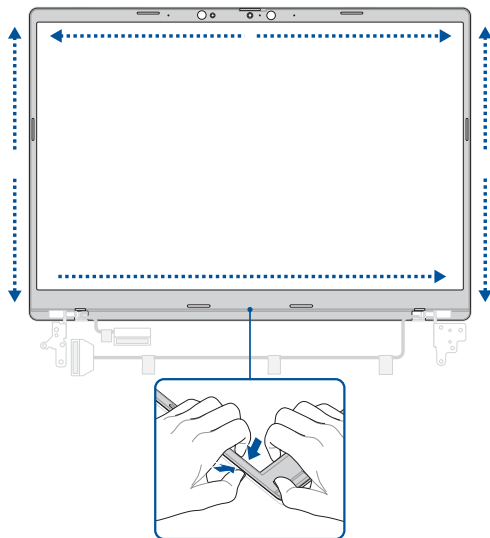
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
  - M.2 SSD module
  - Display panel module

## Removal

1. Push the hinge caps in the orientation as shown to remove them.



2. Carefully pry the bezel loose, then remove the bezel.



## Installation

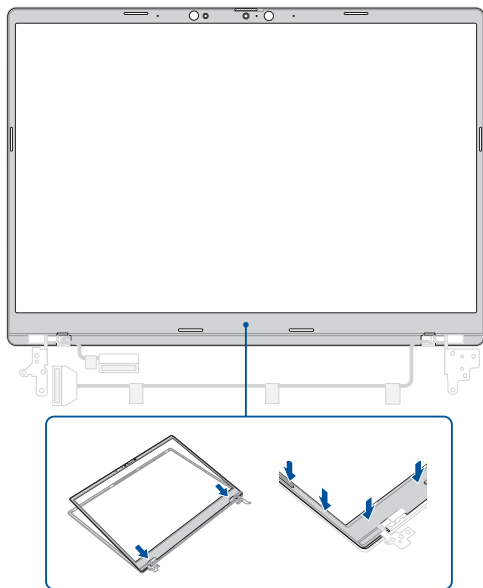
1. Remove the release liner(s) from the tape on the bezel.

---

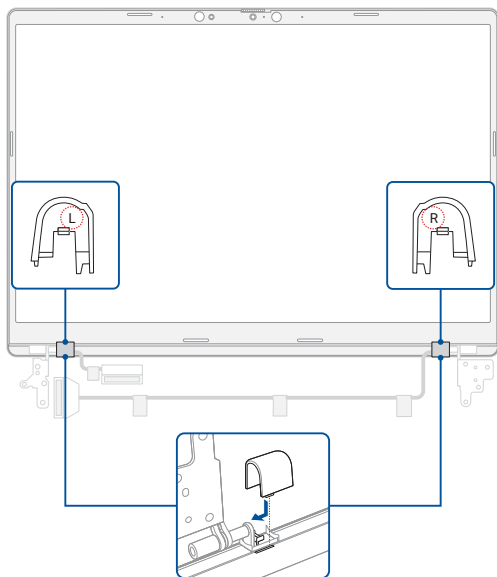
**NOTE:** The tape cannot be reused. Remove any adhesive residue and use new tape when reinstalling components.

---

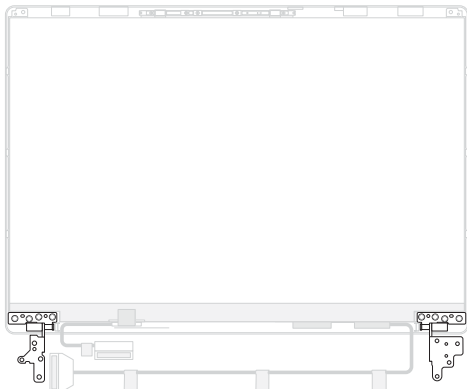
2. Align and install the bezel.



3. Align and install the hinge caps in the proper orientation as shown and ensure that the hinge caps are securely installed.
4. Install the components you removed in the *Before you begin* section.



# Display hinges



## Before you begin

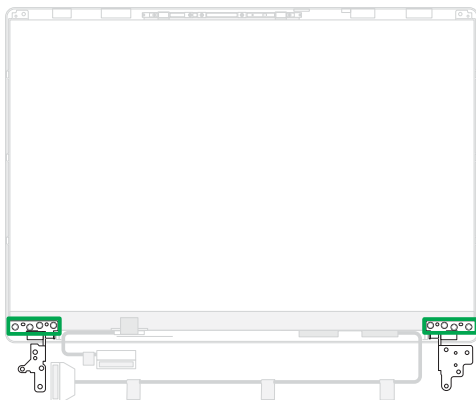
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
  - M.2 SSD module
  - Display panel module
  - Display bezel

## Screw list

- ⊕ M2.5 X 3.0L (8pcs)

## Removal

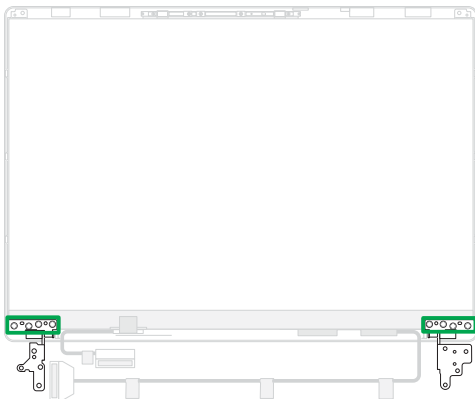
Remove the screw(s), then remove the hinges.



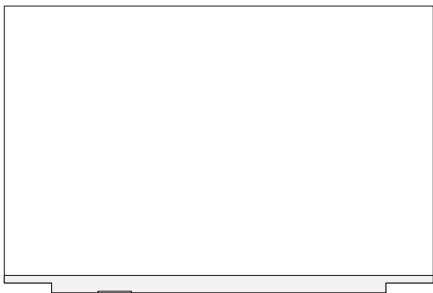


## Installation

1. Install the hinges, then secure the hinges using the screw(s) you removed earlier.
2. Install the components you removed in the *Before you begin* section.



## Display panel



### Before you begin

---

#### IMPORTANT!

- This component is fragile. Damage may occur if the service procedure is performed incorrectly. If you are uncertain about proceeding, stop and contact an authorized service center for assistance.
  - Do not bend the display panel in any way to avoid risk of display panel leakage.
- 

1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
  - M.2 SSD module
  - Display panel module
  - Display bezel
  - Display hinges

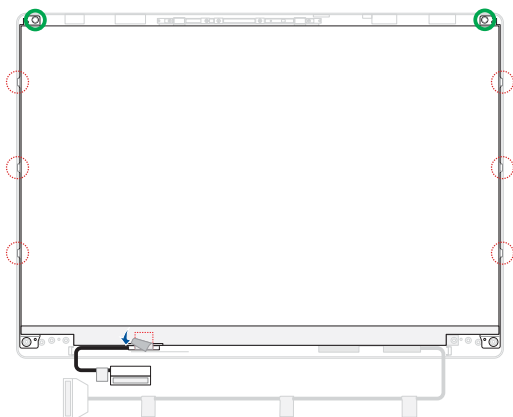
## Screw list

- ⊕ M2.0 X 2.0L (2pcs)

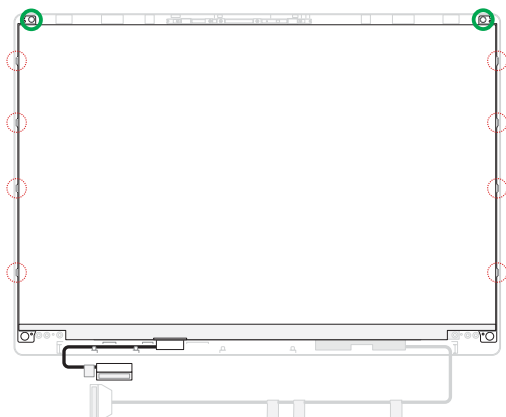
## Removal

1. (On 14" model) Remove the tape.
2. Remove the screw(s), then gently push the indicated hooks outwards on both sides of the top cover to remove the display panel.

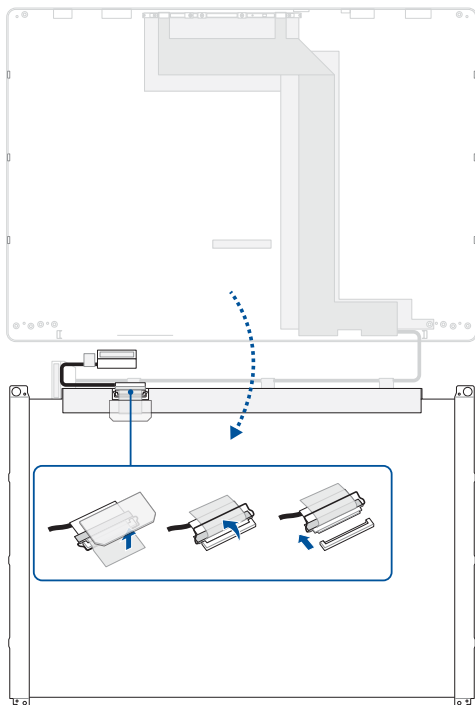
### 14" model



## 16" model



3. Lift the display panel, then remove the polyester film and disconnect the cable from the rear side of the display panel.



## Installation

1. Place the top cover in the orientation shown in the illustration below.
2. Align and install the display brackets on the top cover, then secure the brackets using the screw(s) you removed earlier.

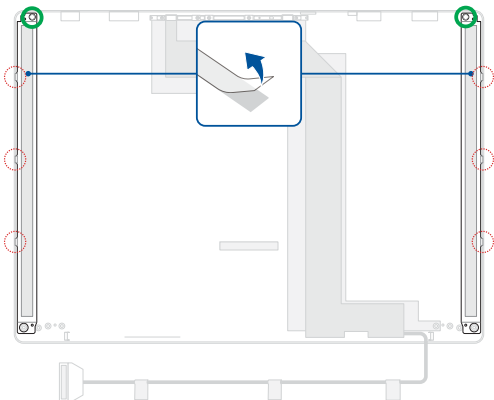
---

**IMPORTANT!** The display brackets are not removable and cannot be reused. Ensure that the display brackets are oriented correctly before installation.

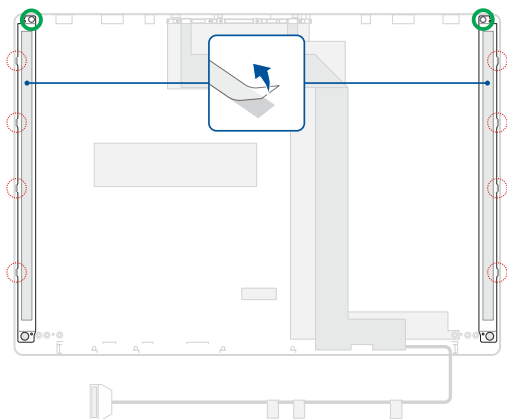
---

3. Remove the release liner(s) from the tape on the display brackets.

### 14" model



## 16" model



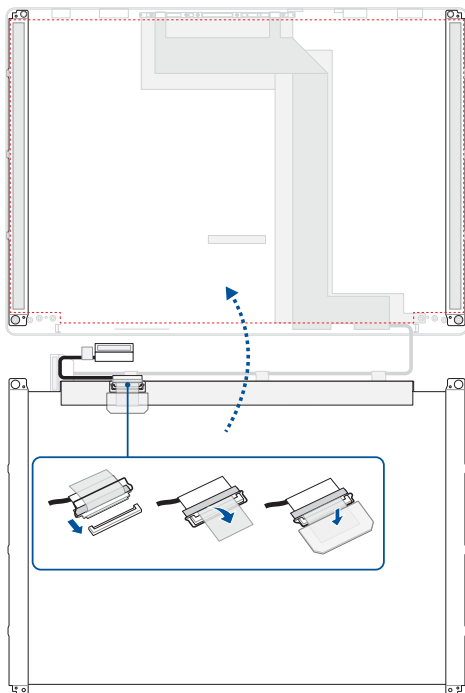
4. Reconnect the cable to the rear side of the display panel and reattach the polyester film, then install the display panel.

---

**NOTE:** Use new polyester film when replacing the existing components with a new one.

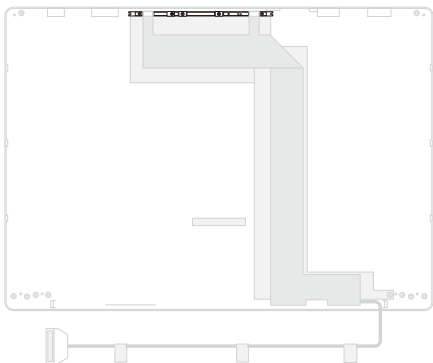
---

5. Install the components you removed in the *Before you begin* section.





## Camera module



### Before you begin

---

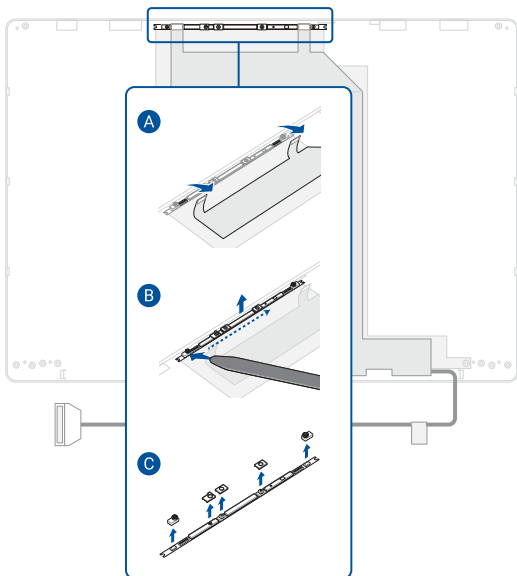
**IMPORTANT!** This component is fragile. Damage may occur if the service procedure is performed incorrectly. If you are uncertain about proceeding, stop and contact an authorized service center for assistance.

---

1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
  - M.2 SSD module
  - Display panel module
  - Display bezel
  - Display hinges
  - Display panel

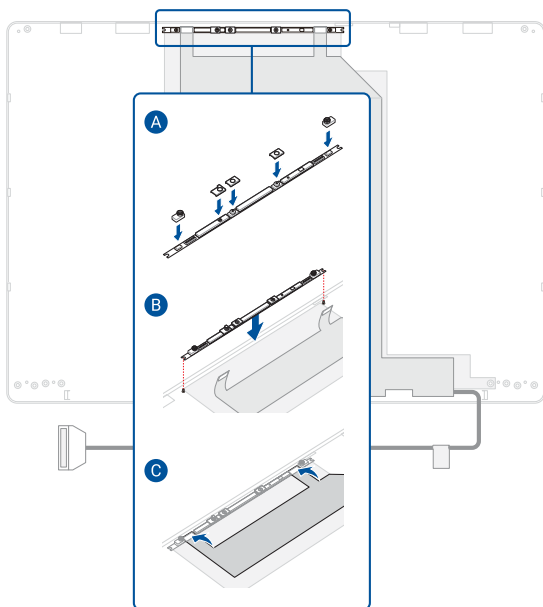
## Removal

Disconnect the cable and carefully pry up the camera module, then remove the rubber caps from the camera module.

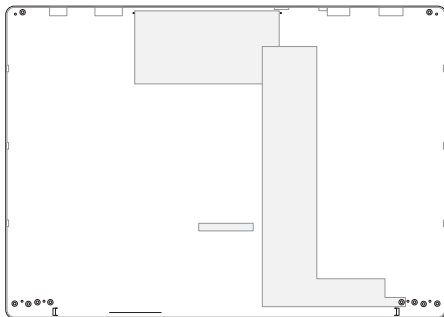


## Installation

1. Attach the rubber caps to the camera module, then install the camera module and reconnect the cable to the camera module.
2. Install the components you removed in the *Before you begin* section.



## Top cover

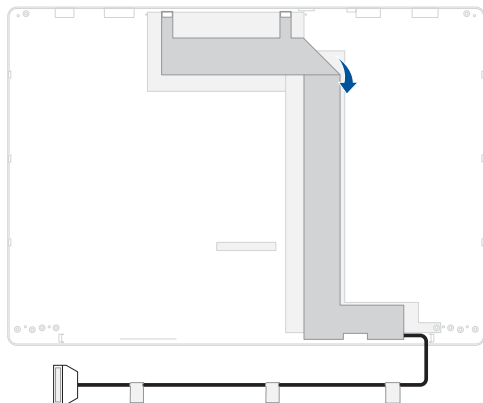


## Before you begin

1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
  - M.2 SSD module
  - Display panel module
  - Display bezel
  - Display hinges
  - Display panel
  - Camera module

## Removal

Remove the cable as shown in the illustration below.



## Installation

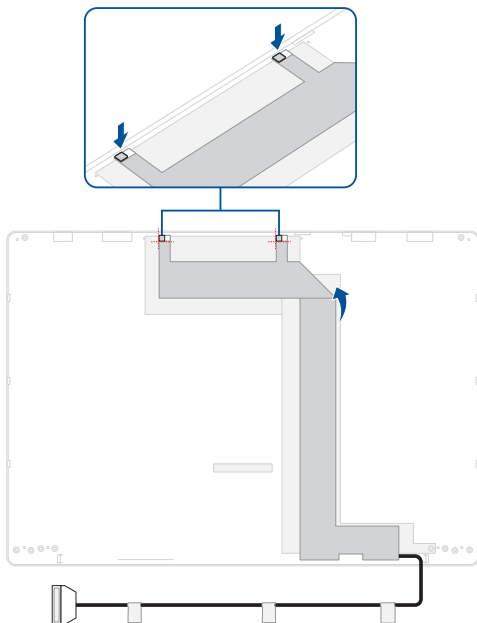
1. Align and install the cable.
2. Attach the polyester films on the cable as shown.

---

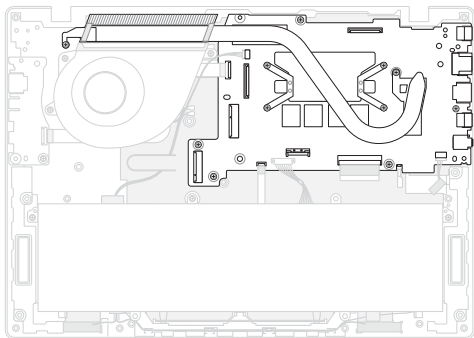
**NOTE:** This step is only required when you are replacing the existing component with a new one.

---

3. Install the components you removed in the *Before you begin* section.



## Heat sink and motherboard



### Before you begin

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**IMPORTANT!** Thermal paste, thermal pads, liquid metal, or other thermal interface materials must be thoroughly removed and replaced if this component is removed. Ensure that replacement materials are available before proceeding, or contact an authorized service center for assistance.



---

1. Read the **Safety Precautions** and **Pre-repair Checklist**.



2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
  - Battery
  - M.2 SSD module
  - WLAN module
  - Display panel module

## Screw list

### 14" model

-  ⊕ M2.0 X 3.5L (1pc)
-  ⊕ M2.0 X 2.0L (10pcs)

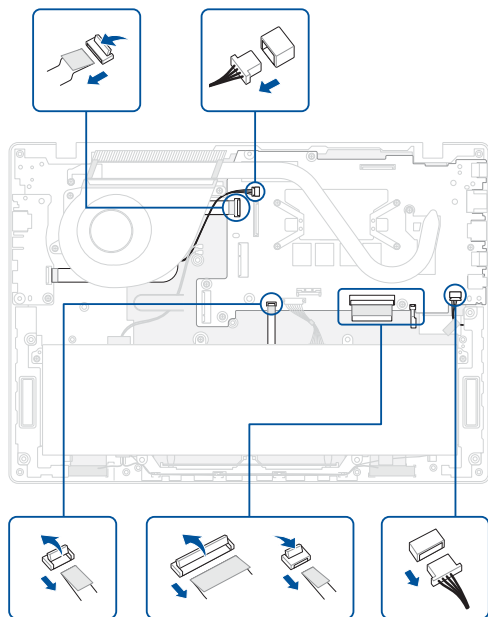
### 16" model

-  ⊕ M2.0 X 3.5L (1pc)
-  ⊕ M2.0 X 2.0L (9pcs)



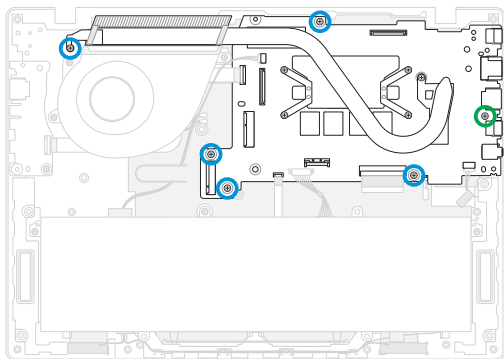
## Removal

1. Remove and disconnect the cable(s) as shown in the illustration below.

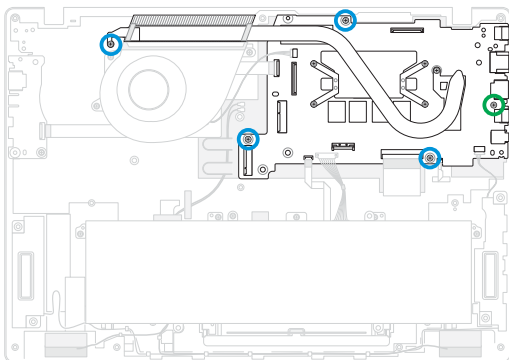


2. Remove the screw(s), then remove the motherboard with heat sink attached.

### 14" model



### 16" model

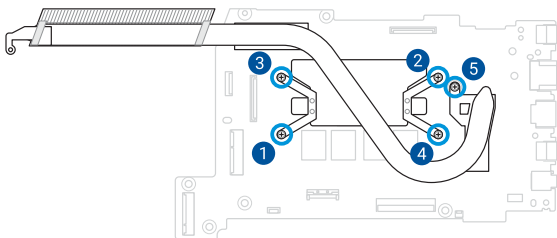


3. Remove the heat sink screw(s) one by one in the sequence shown in the illustration below, then remove the heat sink from the motherboard.

---

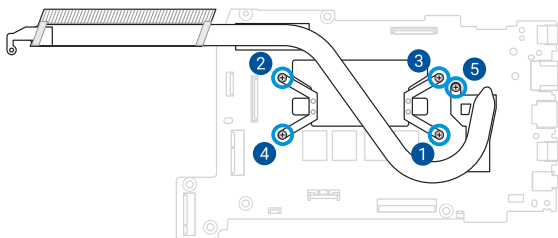
**IMPORTANT!** Vertically lift the heat sink using the right side of the heat sink to prevent damage.

---



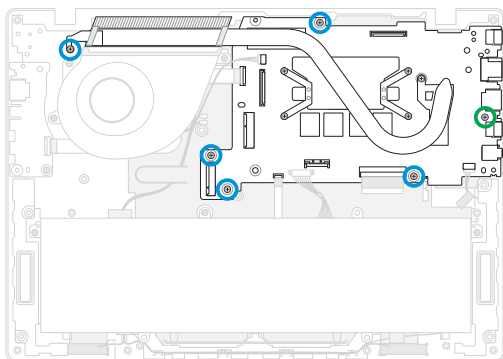
## Installation

1. Install the heat sink, then secure the heat sink screw(s) one by one in the sequence shown in the illustration below.

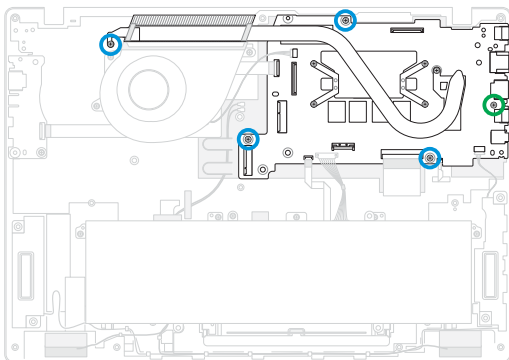


2. Install the motherboard with heat sink attached, then secure the motherboard using the screw(s) you removed earlier.

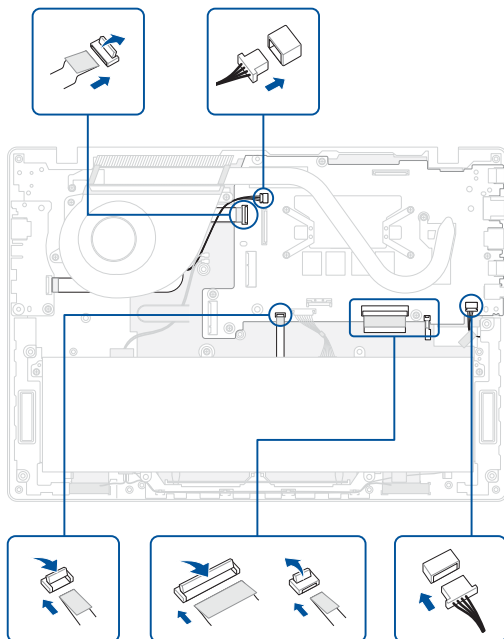
### 14" model



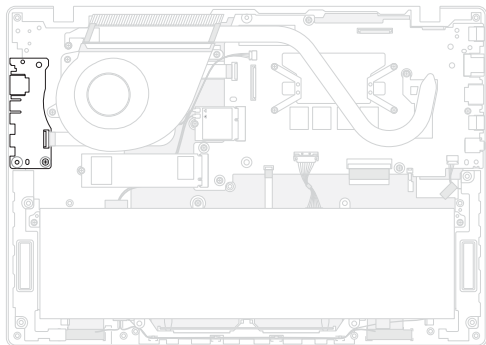
### 16" model



3. Reconnect the cable(s) as shown in the illustration below.
4. Install the components you removed in the *Before you begin* section.



## I/O board



### Before you begin

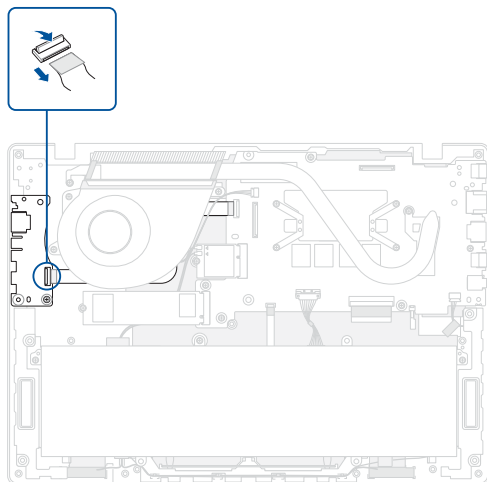
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.

### Screw list

- ⊕ M2.0 X 2.0L (1pc)

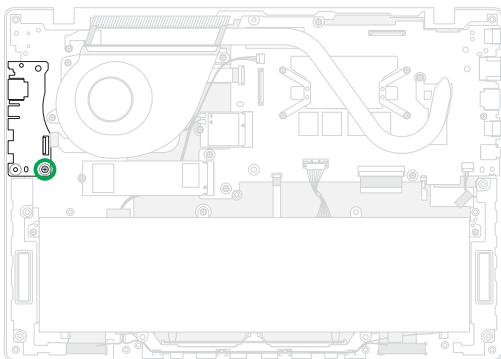
## Removal

1. Disconnect the I/O board cable.



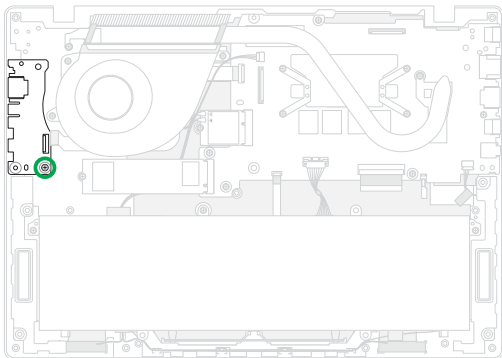


2. Remove the screw, then remove the I/O board.

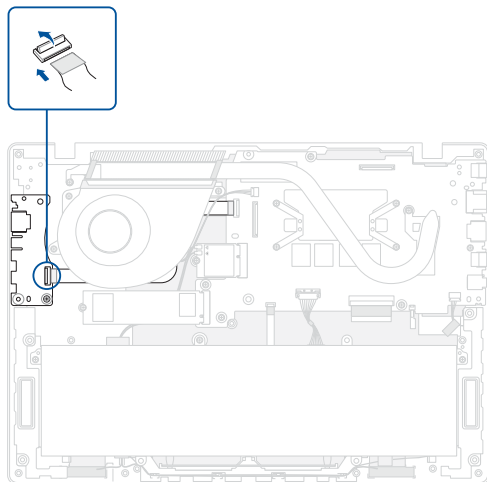


## Installation

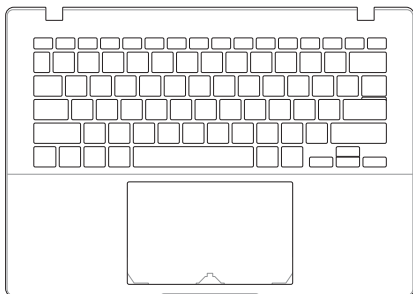
1. Install the I/O board, then secure the I/O board using the screw you removed earlier.



2. Reconnect the I/O board cable.
3. Install the components you removed in the *Before you begin* section.



## Keyboard module



### Before you begin

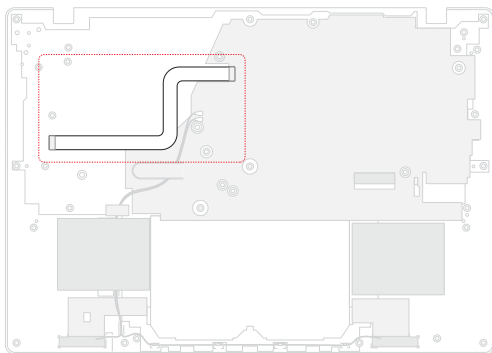
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
  - Battery
  - M.2 SSD module
  - WLAN module
  - Speakers
  - Touchpad
  - Fan module
  - Display panel module
  - Heat sink and motherboard
  - I/O board

## Screw list

- ⊕ M2.0 X 2.0L (1pc)

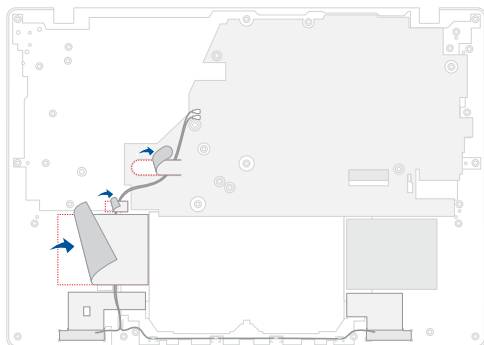
## Removal

1. Remove the I/O board cable.

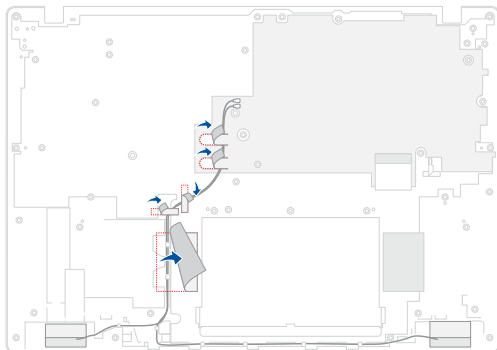


2. Remove the adhesive sponge and tape, then lift the polyester film.

### 14" model



### 16" model



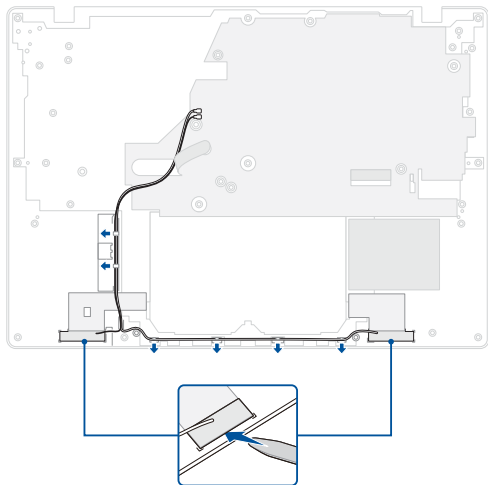
3. Remove the antenna cable(s) as shown in the illustration below.

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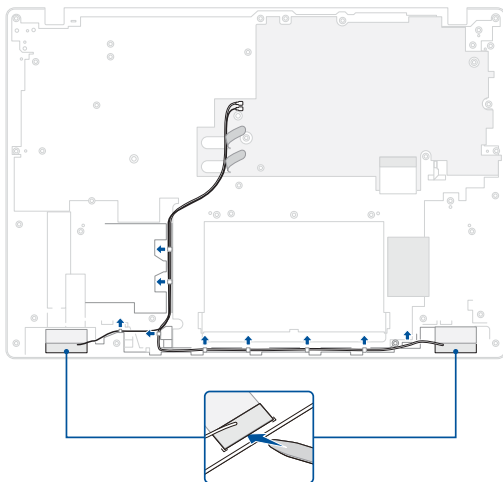
**IMPORTANT!** The antenna cable(s) cannot be reused once removed.

---

### 14" model



## 16" model





## Installation

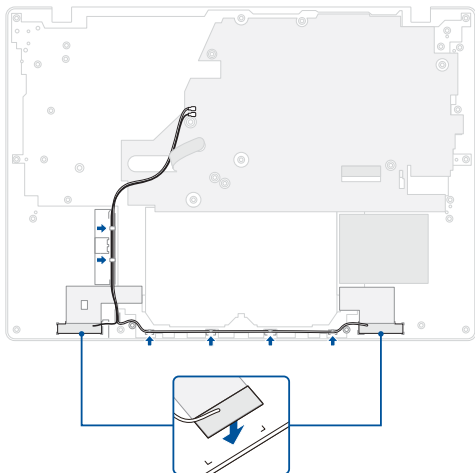
1. Install the antenna cable(s), then route the cable(s) through the cable guide(s) as shown.

---

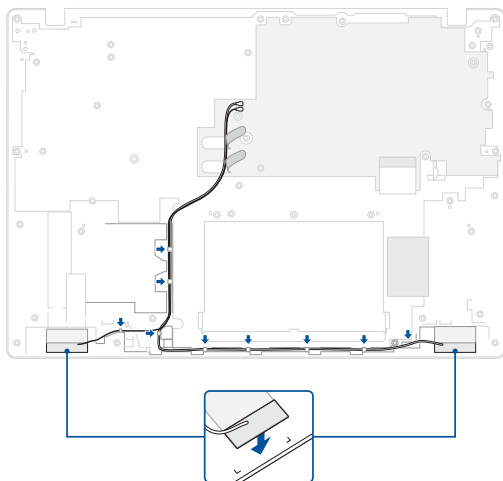
**IMPORTANT!** Damage may occur if cables are not properly routed through the cable guides. Confirm that all cables are routed through each of the indicated cable guides before proceeding.

---

### 14" model



## 16" model



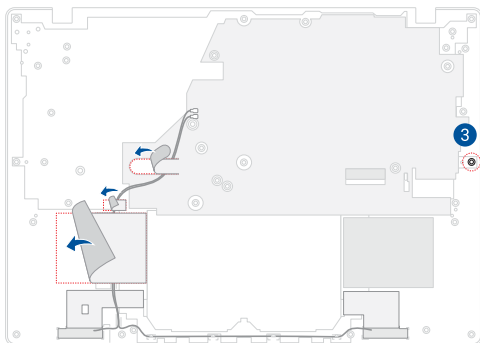
2. Reattach the adhesive sponge and tape, then put the polyester film back.
3. Attach the washer to the indicated screw hole.

---

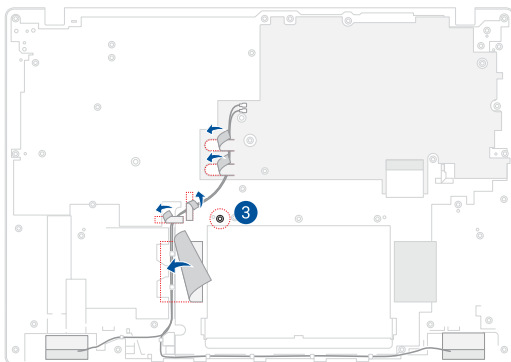
**NOTE:** This step is only required when you are replacing the existing component with a new one.

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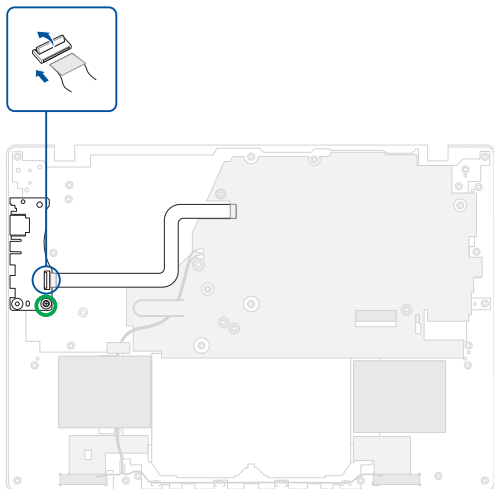
## 14" model



## 16" model



4. Install and secure the I/O board using the screw you removed earlier, then reconnect the I/O board cable.
5. Install the components you removed in the *Before you begin* section.

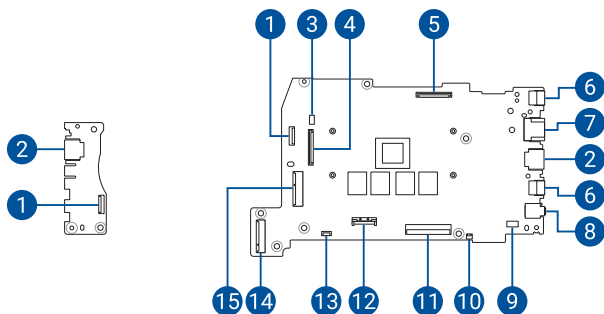


This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

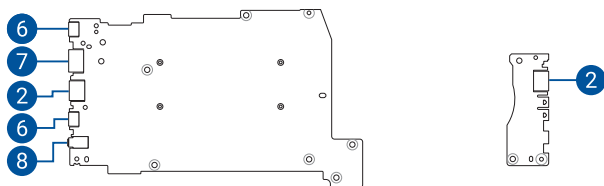
## ***Appendices***

# Wiring and connection diagrams

## Top View



## Bottom View





1. I/O board connector
2. USB Type-A connector
3. Fan connector
4. Camera connector
5. eDP connector
6. USB Type-C® connector
7. HDMI connector
8. Audio connector
9. Speaker connector
10. Keyboard backlight connector
11. Keyboard connector
12. Battery connector
13. Touchpad connector
14. M.2 SSD connector
15. WLAN connector

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.