

E28011

First Edition / September 2026

# 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.

---

### 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



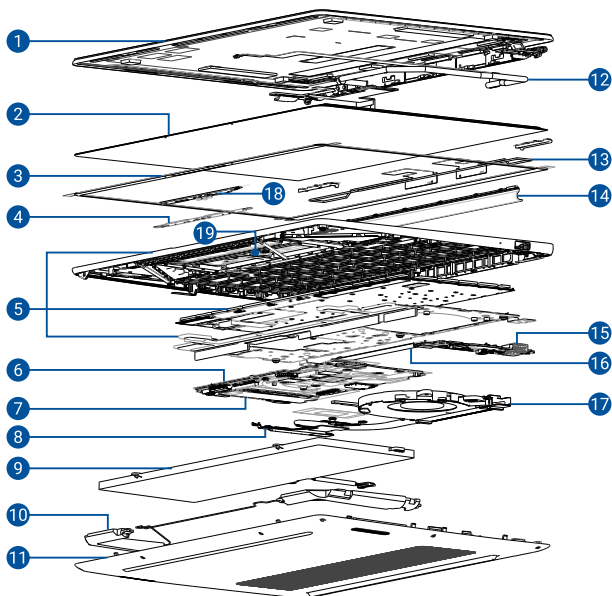
**Power adapter**

## 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/).

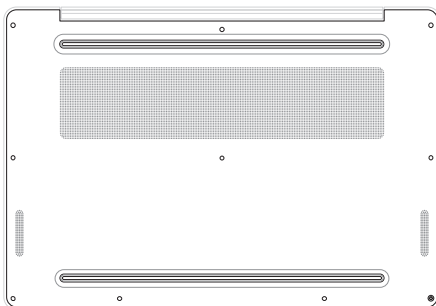
## Major components



- |                    |                      |
|--------------------|----------------------|
| 1. Top cover       | 11. Bottom cover     |
| 2. Display panel   | 12. eDP/camera cable |
| 3. Display bezel   | 13. Antenna cables   |
| 4. Camera bracket  | 14. Hinge cap        |
| 5. Keyboard module | 15. I/O board        |
| 6. Motherboard     | 16. I/O board cable  |
| 7. M.2 SSD module  | 17. Fan              |
| 8. Heat sink       | 18. Camera module    |
| 9. Battery         | 19. Touchpad         |
| 10. Speakers       |                      |

## ***Chapter 2:*** ***Service Procedures***

## Bottom cover



## Before you begin

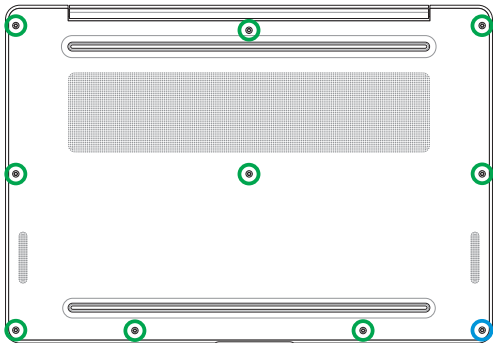
Read the **Safety Precautions** and complete the **Pre-repair Checklist**.

## Screw list

- ⊛ M2.0 X 4.0L (9pcs)
- ⊛ 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.



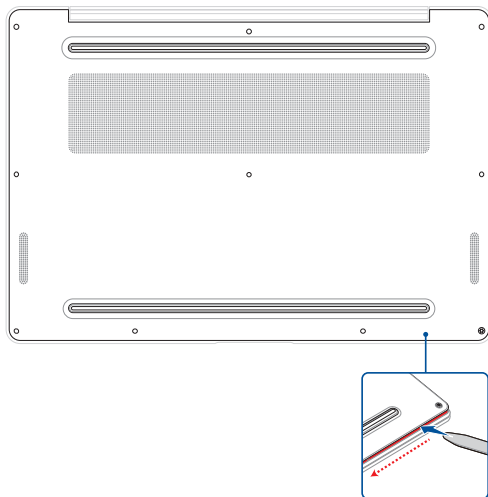
3. Use the plastic blade to pry open the indicated area of the bottom cover as shown in the illustration below.

---

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

---

4. Remove the bottom cover.



## Installation

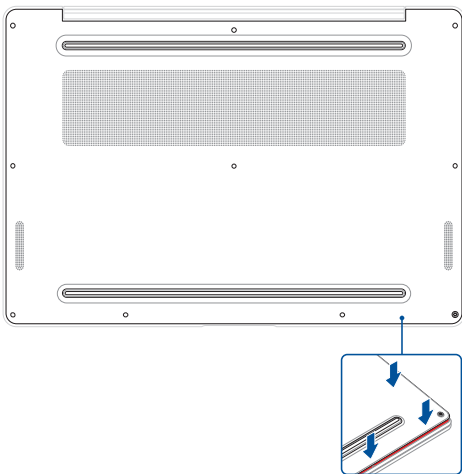
1. Install the bottom cover.

---

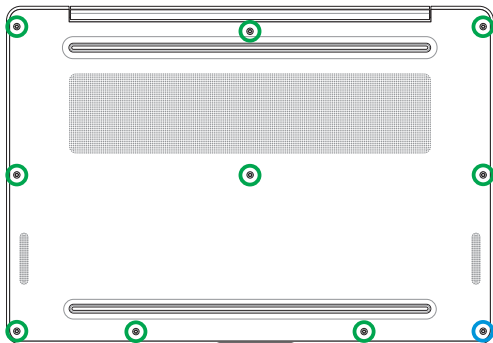
**NOTE:** When replacing the existing component with a new one, ensure you move the washer from the old component to the new bottom cover.

---

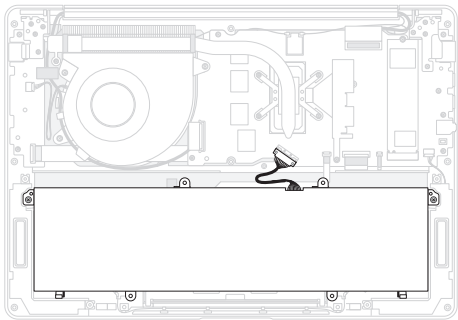
2. Gently press down on the bottom cover until it clicks into place.



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

### 50Wh battery

- ⊕ M2.0 X 3.5L (2pcs)

### 70Wh battery

- ⊕ M2.0 X 3.5L (3pcs)

## Removal

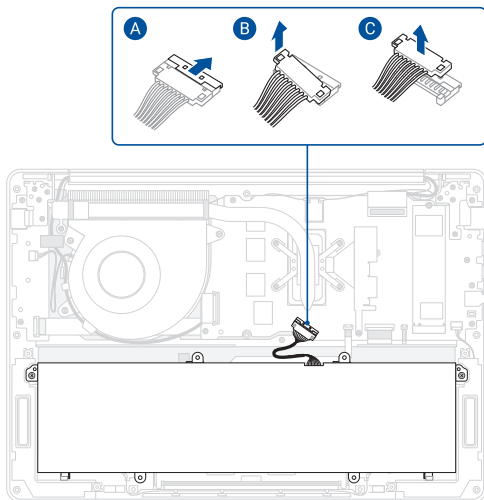
1. Disconnect the battery power cable.

---

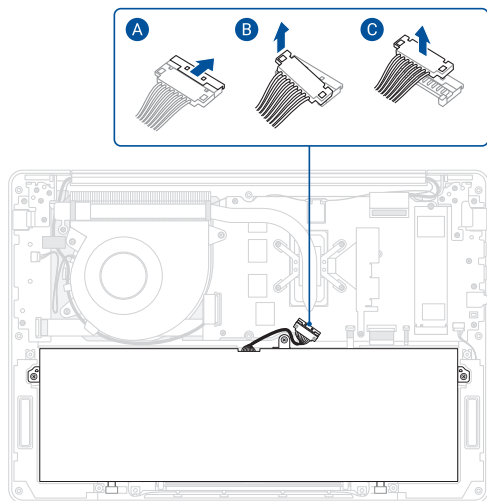
### IMPORTANT!

- 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.
- 

### 50Wh battery

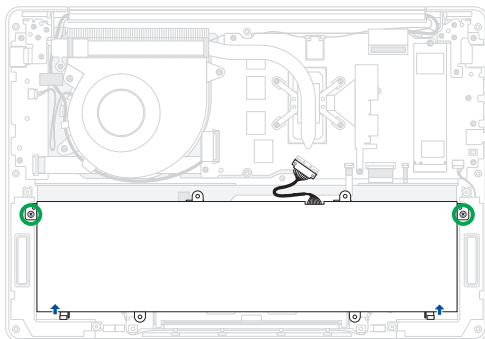


## 70Wh battery

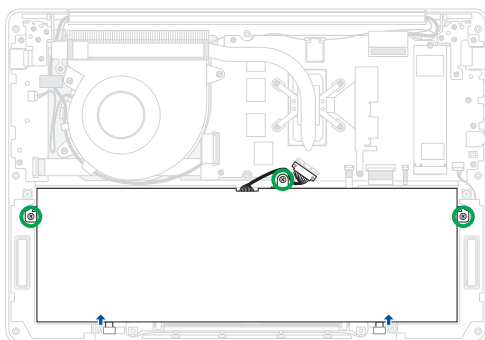


2. Remove the screw(s) from the battery.
3. Remove the battery.

### 50Wh battery



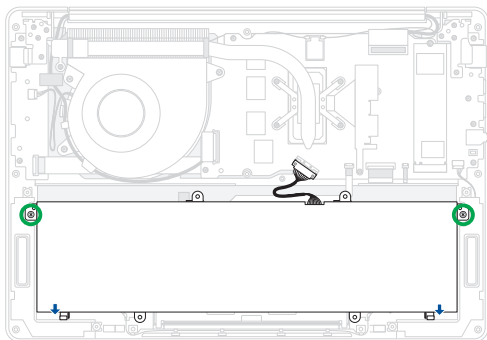
### 70Wh battery



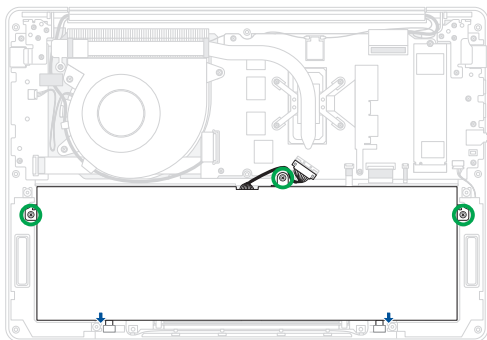
## Installation

1. Align and install the battery.
2. Secure the battery using the screw(s) you removed earlier.

### 50Wh battery



### 70Wh battery



3. Reconnect the battery power cable.

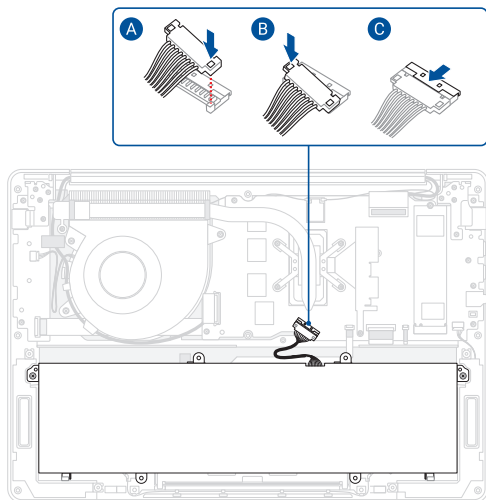
---

**IMPORTANT!** Connect the side of the battery power cable with the black wires first.

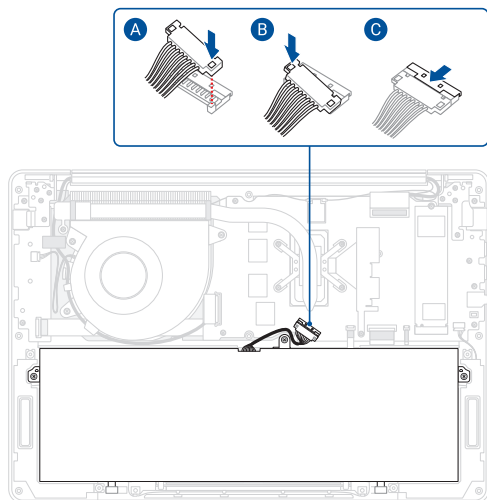
---

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

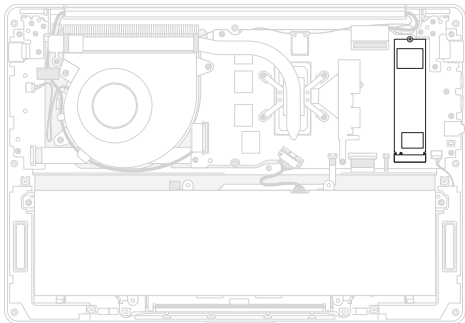
### 50Wh battery



## 70Wh battery



## M.2 SSD module



### Before you begin

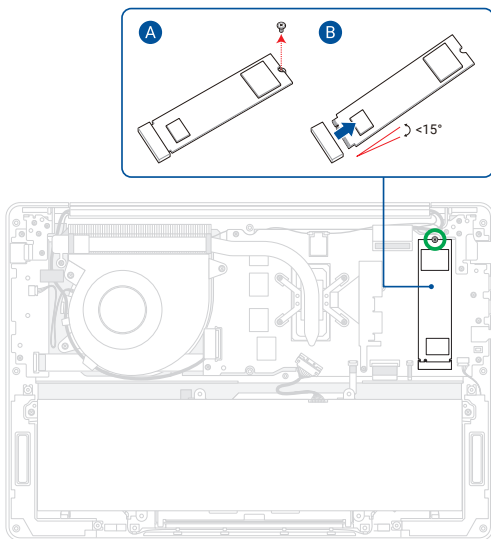
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.

### Screw list

- ⊕ M2.0 X 2.0L (1pc)

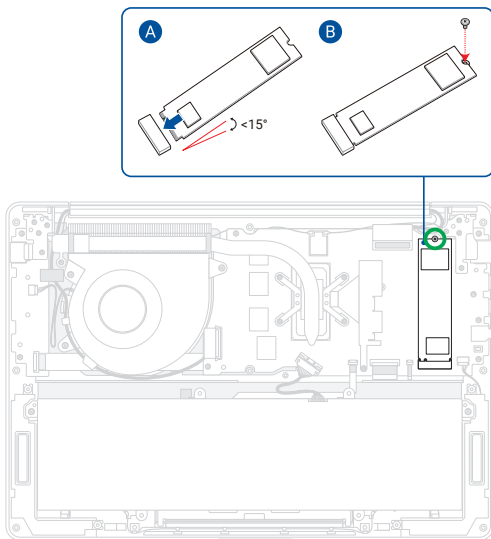
## Removal

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

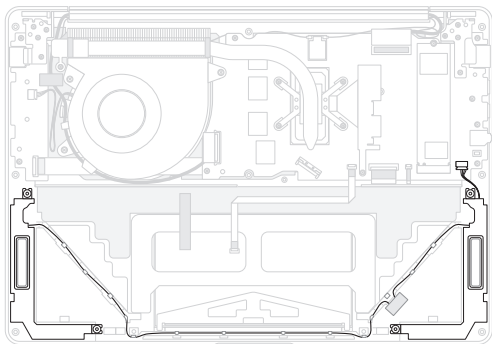


## Installation

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.



## Speakers

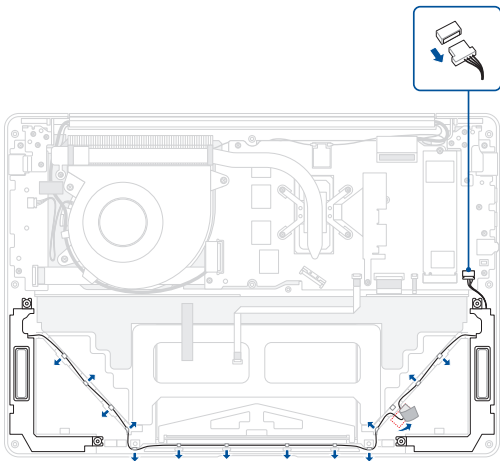


### Before you begin

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. Remove the tape, then remove the speaker cable from the cable guide(s).
3. Remove the speakers.



## Installation

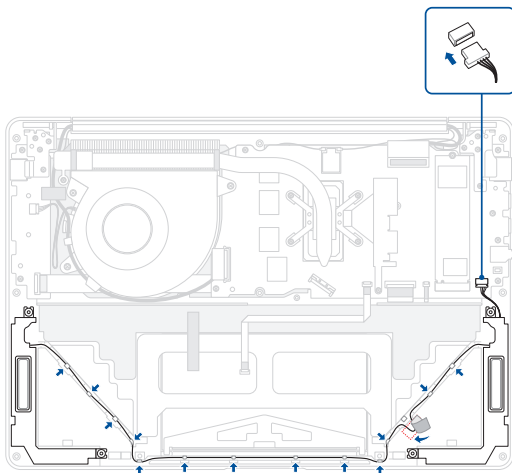
1. Install the speakers.
2. Route the speaker cable through the cable guide(s), then reattach the tape.

---

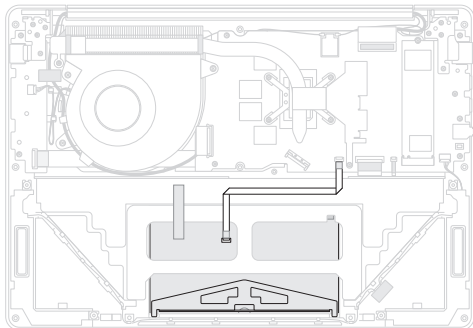
**IMPORTANT!** Damage may occur if cables are not properly routed through the cable guides. Confirm that all cables are routed through each of the indicated cable guides before proceeding.

---

3. Reconnect the speaker connector.
4. Install the components you removed in the *Before you begin* section.



# Touchpad

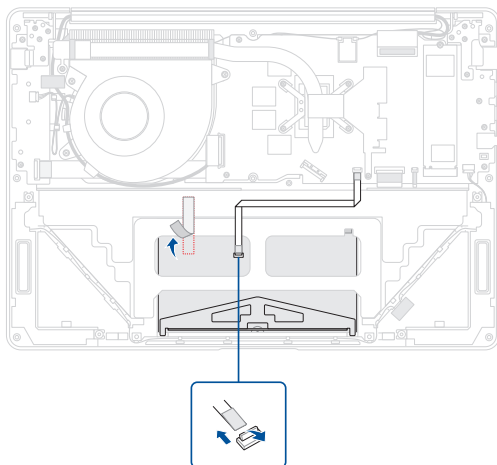


## Before you begin

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

## Removal

1. Disconnect the cable and remove the tape.



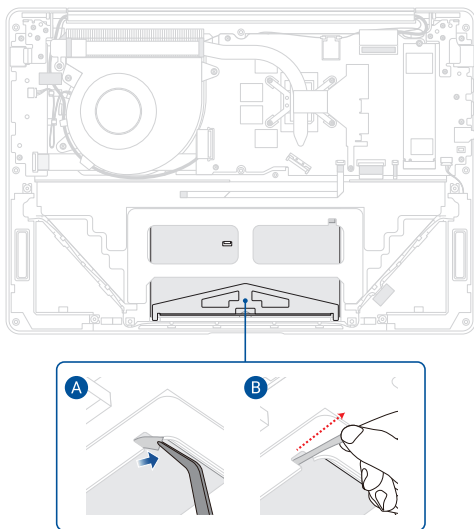
2. Locate the tip of the stretch release tape, then carefully pull out the stretch release tape as shown.

---

**IMPORTANT!** Maintain a flat angle and constant speed when pulling the stretch release tape. Excessive force may damage the stretch release tape and prevent removal of the touchpad.

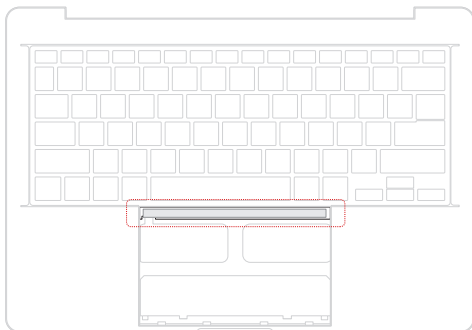
---

3. Remove the touchpad.

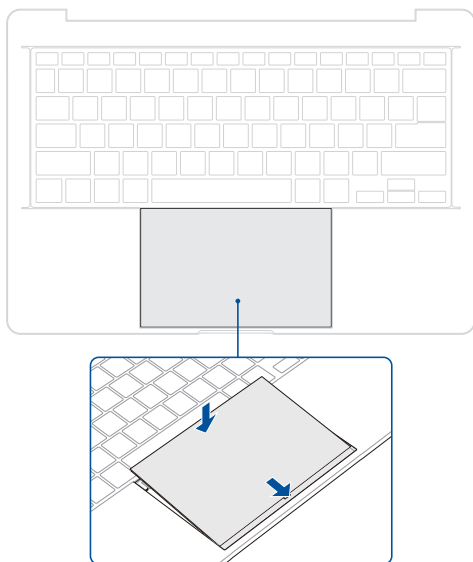


## Installation

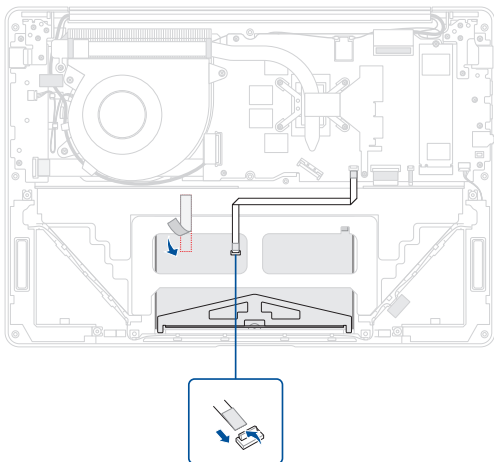
1. Place your device on a clean and stable surface with the keyboard keys facing upwards, then affix the stretch release tape within the designated area of the keyboard module as shown.



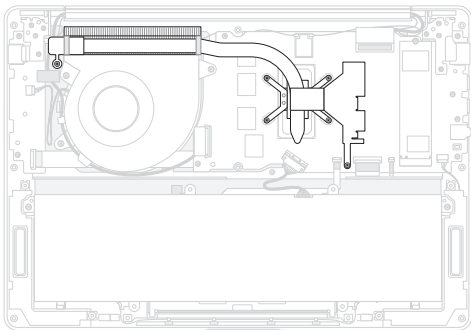
2. Align and install the touchpad.



3. Reconnect the cable and attach the tape as shown.
4. Install the components you removed in the *Before you begin* section.



## Heat sink



### Before you begin

---

**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.

---

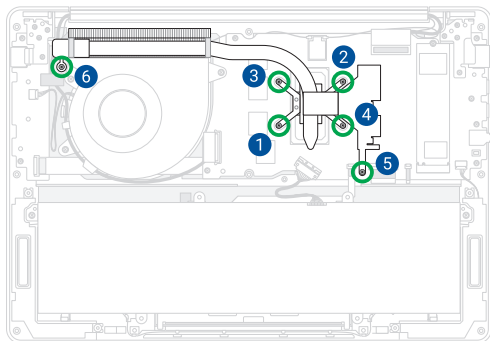
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.

### Screw list

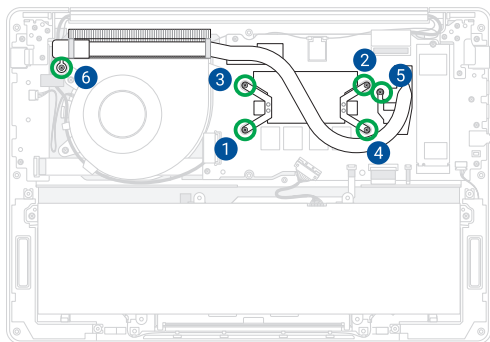
- ⊕ M2.0 X 2.0L (6pcs)

## Removal

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

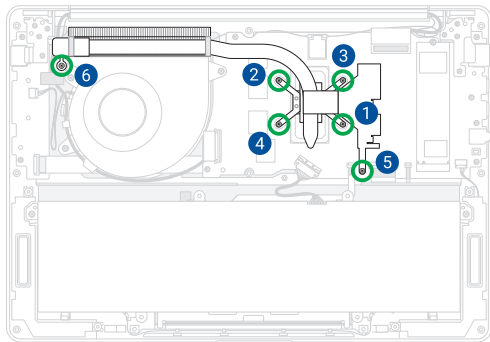


or

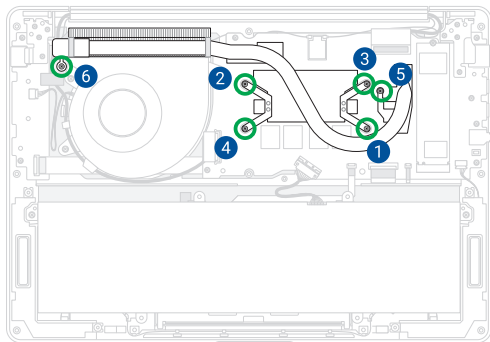


## Installation

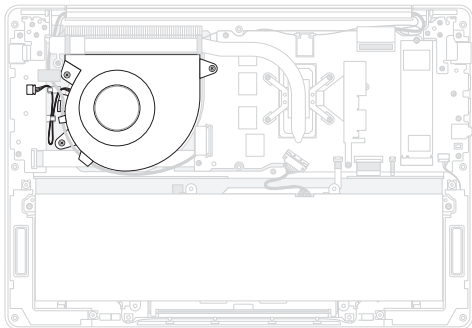
1. Install the heat sink, then secure the heat sink screw(s) one by one in the sequence shown in the illustration below.
2. Install the components you removed in the *Before you begin* section.



or



## Fan module



### Before you begin

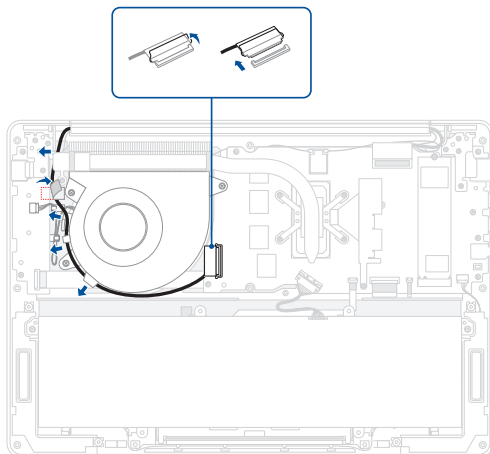
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.

### Screw list

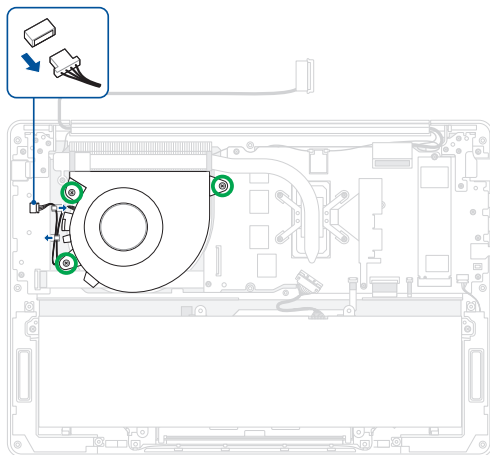
- ⊕ M2.0 X 3.5L (3pcs)

## Removal

1. Disconnect the cable.
2. Remove the tape, then remove the cable from the cable guide(s).



3. Disconnect the fan connector, then remove the cable from the cable guide(s).
4. Remove the screw(s), then remove the fan.



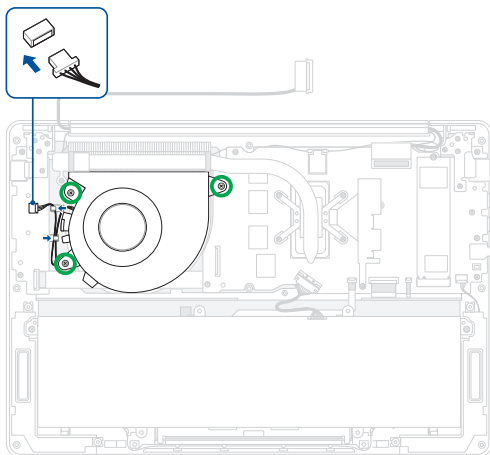
## Installation

1. Install the fan, then secure the fan using the screw(s) you removed earlier.
2. Route the cable through the cable guide(s), then reconnect the fan connector.

---

**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.

---



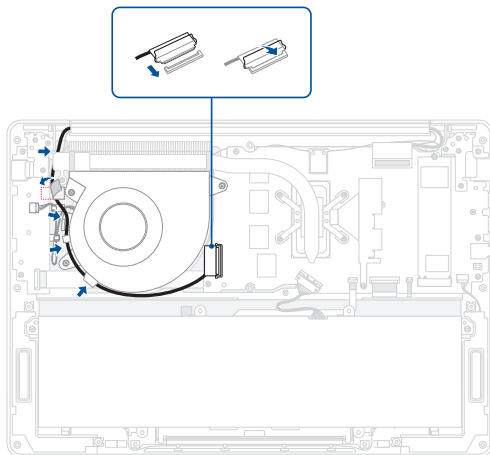
3. Route the cable through the cable guide(s), then reconnect the cable.

---

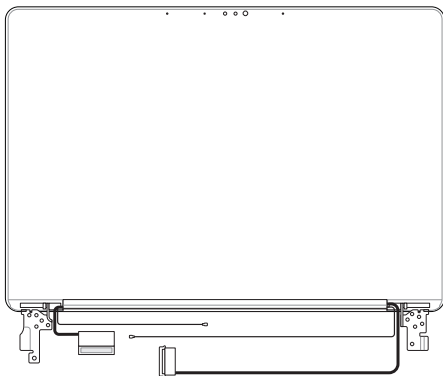
**IMPORTANT!** Damage may occur if cables are not properly routed through the cable guides. Confirm that all cables are routed through each of the indicated cable guides before proceeding.

---

4. Reattach the tape to the cable as shown.
5. Install the components you removed in the *Before you begin* section.



## Display panel module



### Before you begin

---

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

---

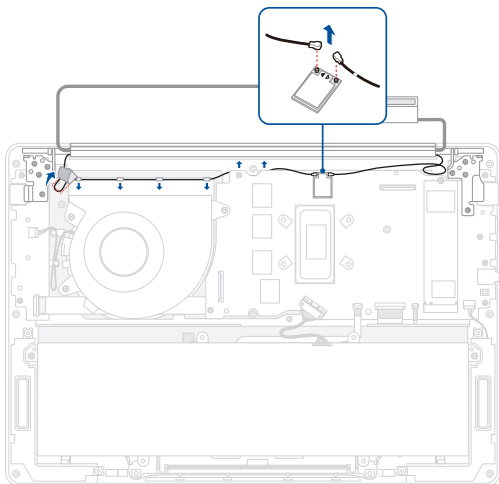
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
  - Heat sink

## Screw list

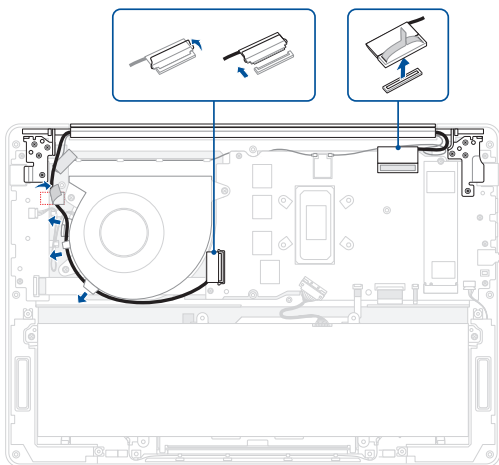
- ⊕ M2.0 X 4.0L (6pcs)
- ⊕ M2.0 X 3.5L (2pcs)

## Removal

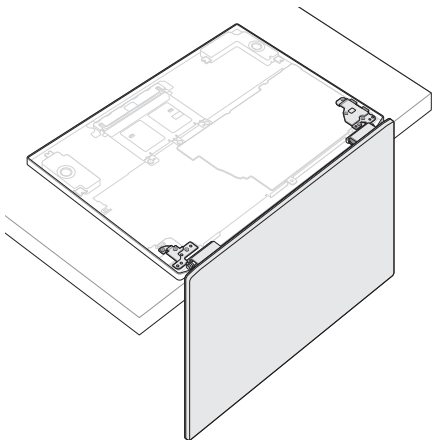
1. Disconnect the antenna cable(s).
2. Remove the tape, then remove the antenna cable(s) from the cable guide(s) and from under the motherboard.



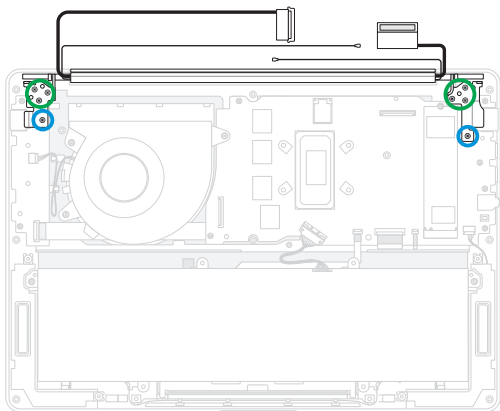
3. Disconnect the cable(s).
4. Remove the tape, then remove the cable(s) from the cable guide(s).



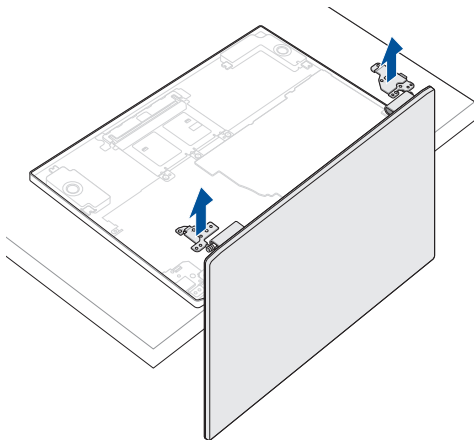
5. Place your device with the display panel hanging over the edge of the workspace as shown in the illustration below.



6. Remove the screw(s).

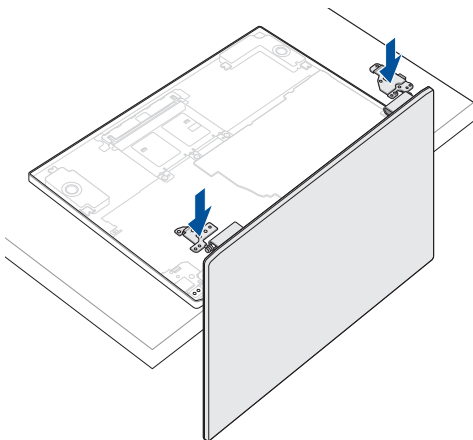


7. Remove the display panel module.

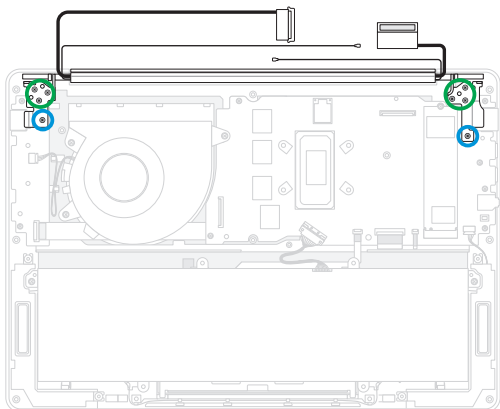


## Installation

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.



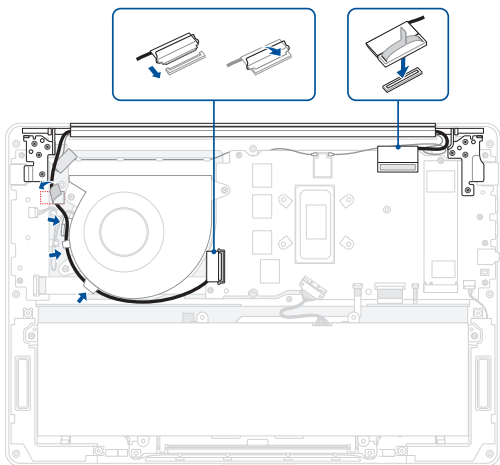
3. Route the cable(s) through the cable guide(s), then reconnect the cable(s).

---

**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.

---

4. Reattach the tape.



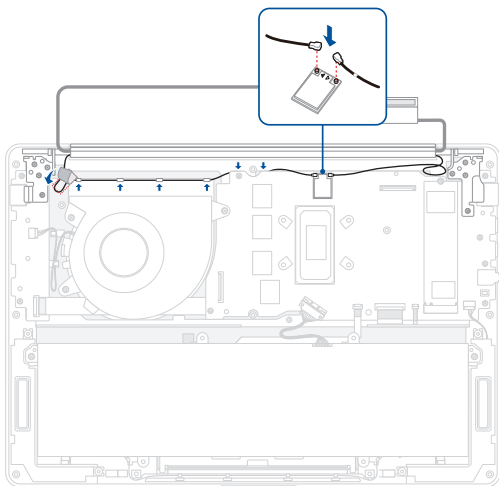
5. Route the antenna cable(s) through the cable guide(s) and under the motherboard, then reconnect the cable(s).

---

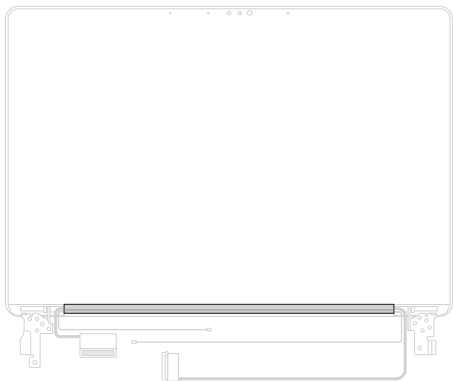
**IMPORTANT!** Damage may occur if cables are not properly routed through the cable guides. Confirm that all cables are routed through each of the indicated cable guides before proceeding.

---

6. Reattach the tape as shown.
7. Install the components you removed in the *Before you begin* section.



## Hinge cap

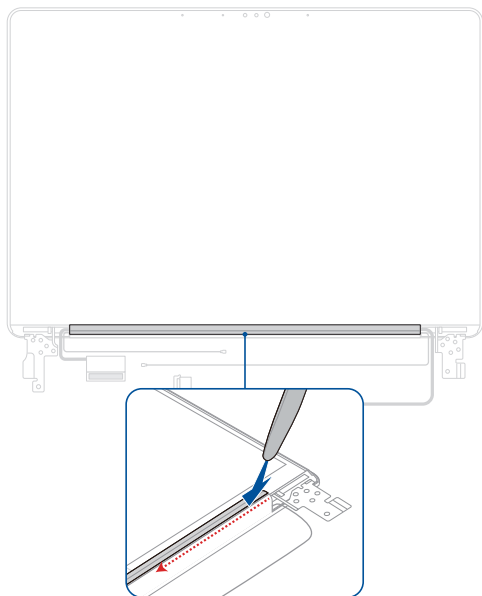


### Before you begin

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:
  - Heat sink
  - Display panel module

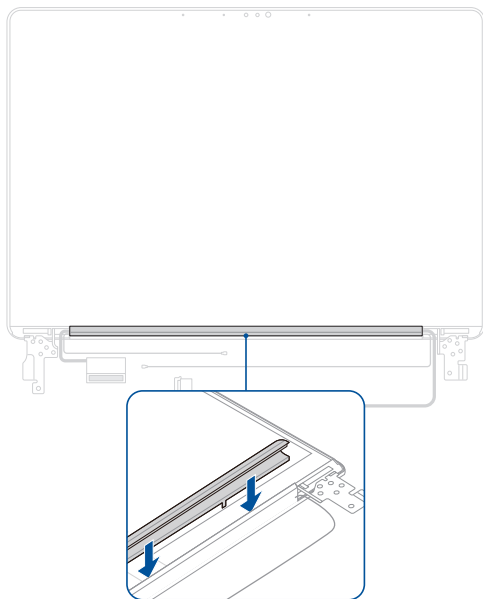
## Removal

Slide the plastic blade along the hinge cap as shown to remove it.

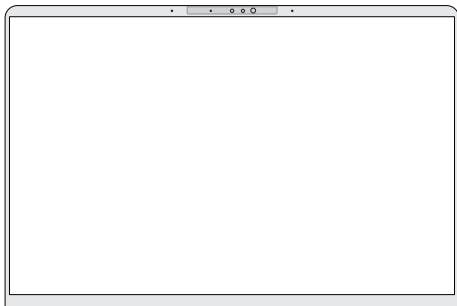


## Installation

1. Align and install the hinge cap as shown.
2. Install the components you removed in the *Before you begin* section.



## Display bezel (model with framed screen)



### Before you begin

---

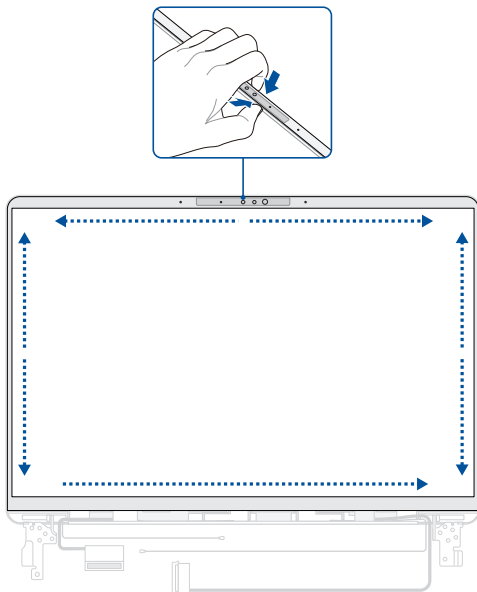
**IMPORTANT!** This component is fragile. Damage may occur if the service procedure is performed incorrectly. If you are uncertain about proceeding, stop and contact an authorized service center for assistance.

---

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:
  - Heat sink
  - Display panel module
  - Hinge cap

## Removal

Carefully pry the bezel loose, then remove the bezel.



## Installation

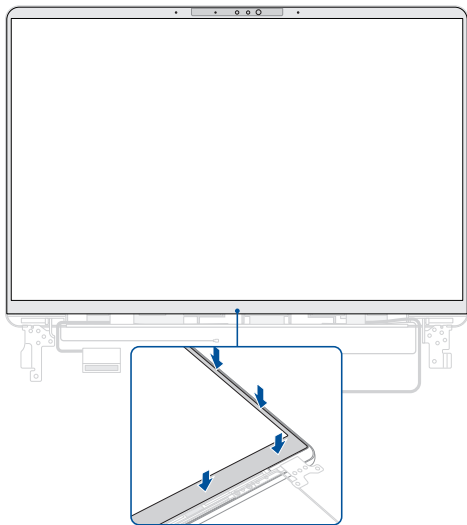
1. Remove the release liner(s) from the tape on the bezel.

---

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

---

2. Align and install the bezel.
3. Install the components you removed in the *Before you begin* section.



## Display panel (model with framed screen)



### 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:
  - Heat sink
  - Display panel module
  - Hinge cap
  - Display bezel

## Removal

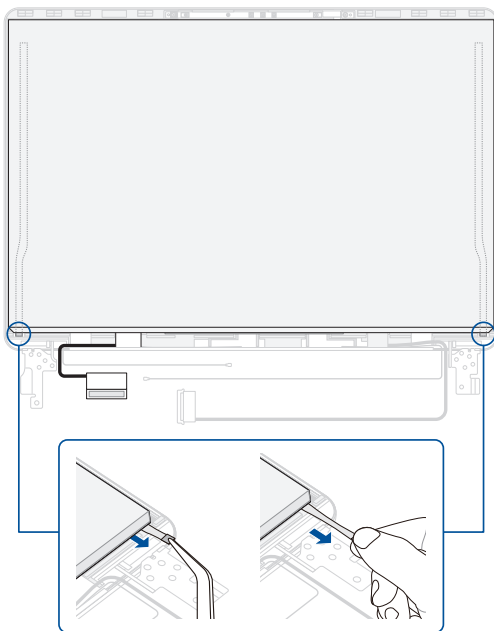
1. Locate the tip of the stretch release tape, then carefully pull out the stretch release tape as shown in the illustration below.

---

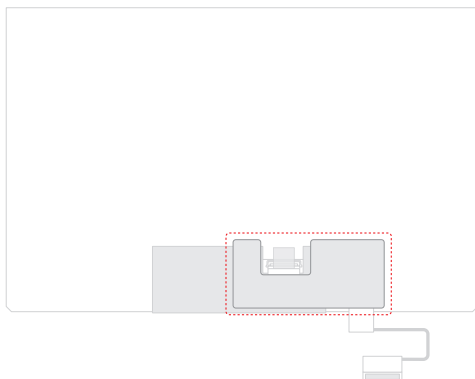
**IMPORTANT!** Maintain a flat angle and constant speed when pulling the stretch release tape. Excessive force may damage the stretch release tape and prevent removal of the display panel.

---

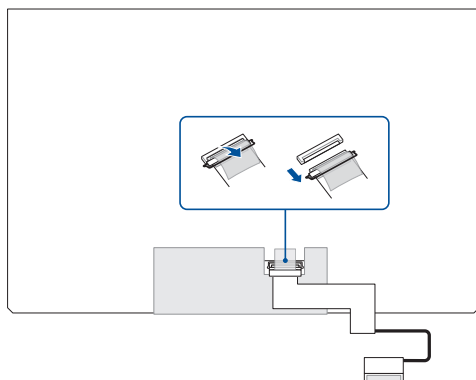
2. Remove the display panel from the top cover.



3. Remove the aluminum foil from the rear side of the display panel.

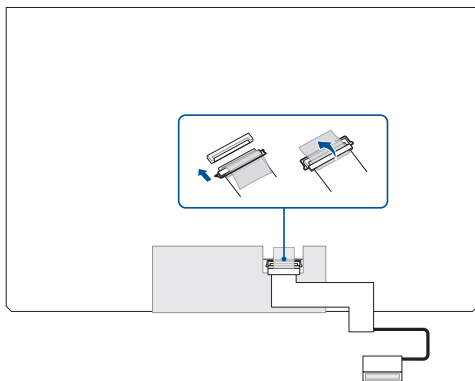


4. Disconnect the cable.

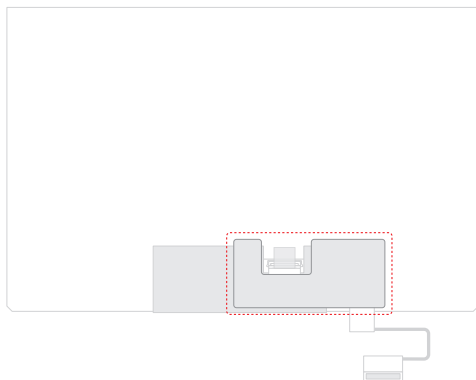


## Installation

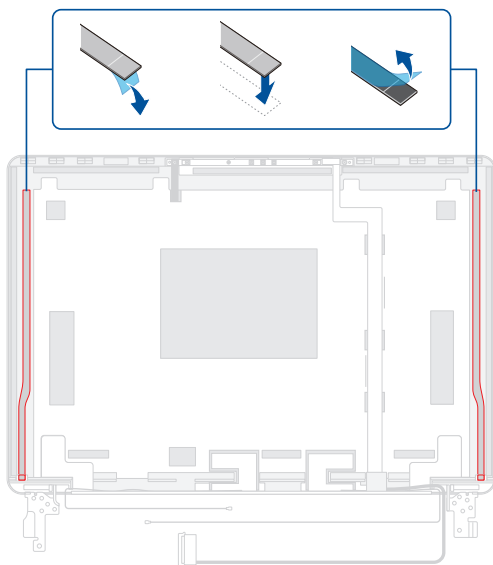
1. Reconnect the cable from the rear side of the display panel.



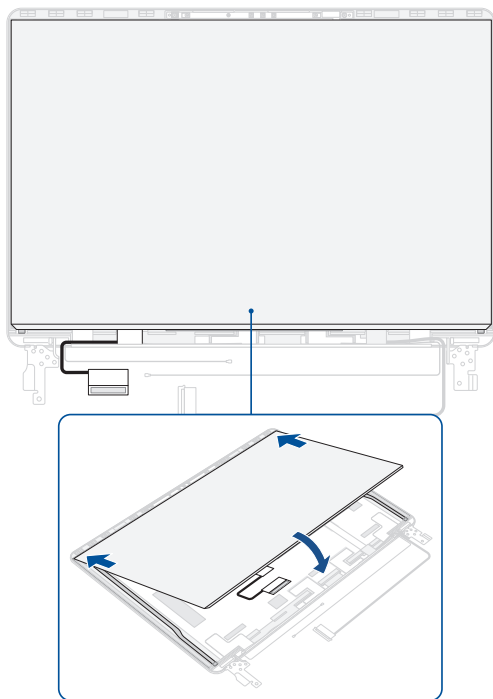
2. Reattach the aluminum foil.



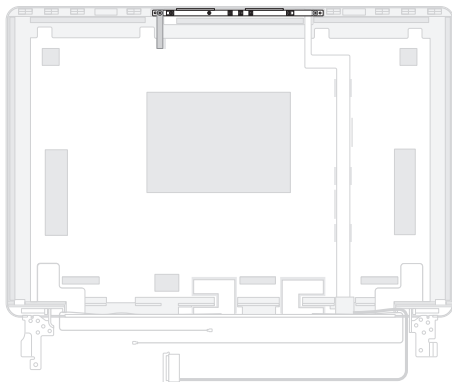
3. Remove the release liner(s) from the bottom side of the stretch release tape.
4. Align and attach the stretch release tape to the top cover.
5. Remove the release liner(s) from the top side of the stretch release tape.



6. Align and install the display panel.
7. Install the components you removed in the *Before you begin* section.



## Camera module (model with framed screen)



### Before you begin

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**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:

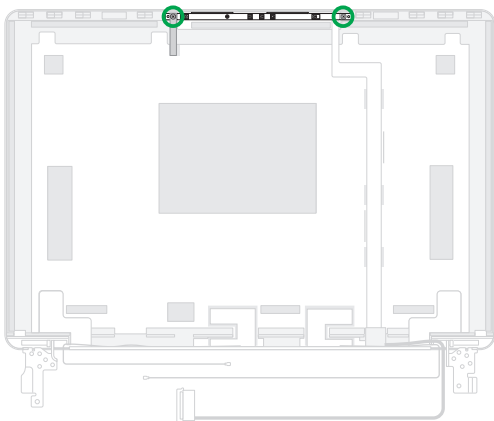
- Heat sink
- Display panel module
- Hinge cap
- Display bezel
- Display panel

## Screw list

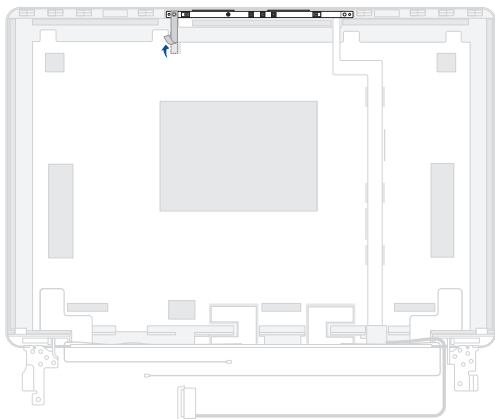
- ⊕ M1.2 X 1.4L (2pcs)

## Removal

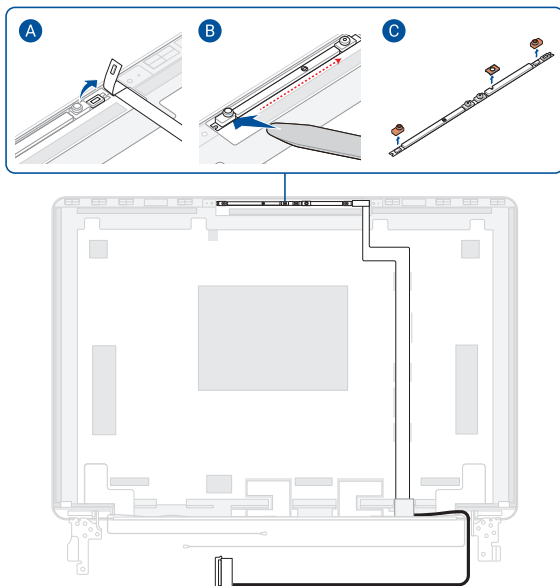
1. Remove the screw(s).



2. Remove the tape, then remove the bracket from the camera module.

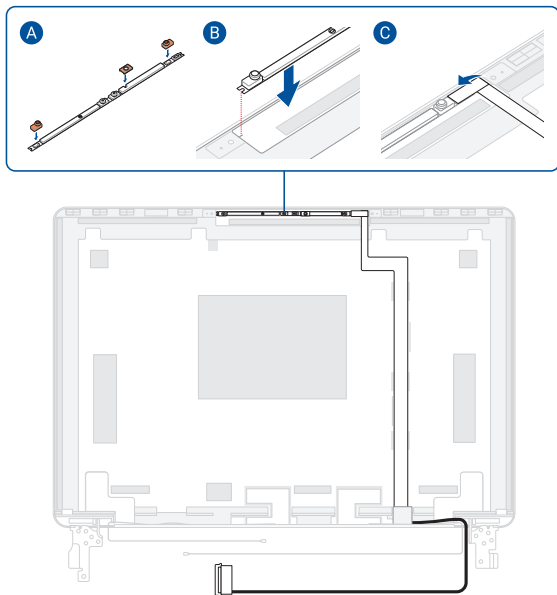


3. Disconnect the cable and carefully pry up the camera module, then remove the sponge and rubber caps from the camera module.

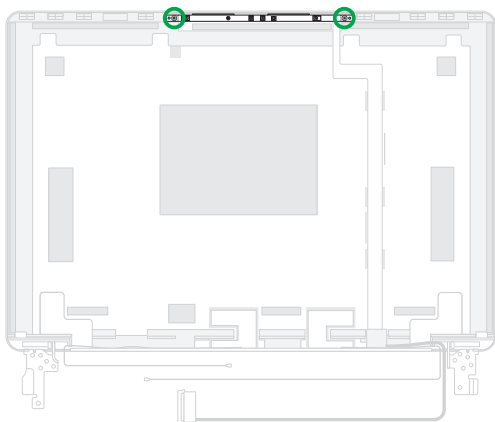


## Installation

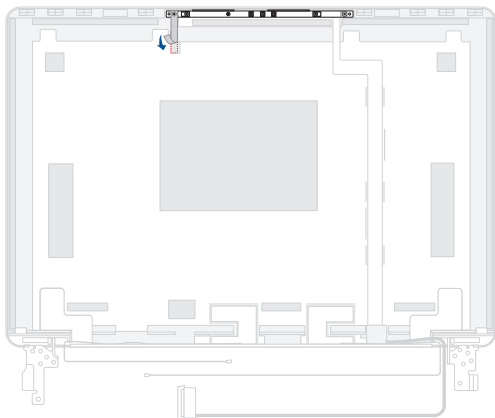
1. Attach the sponge and rubber caps to the camera module, then install the camera module and reconnect the cable to the camera module.



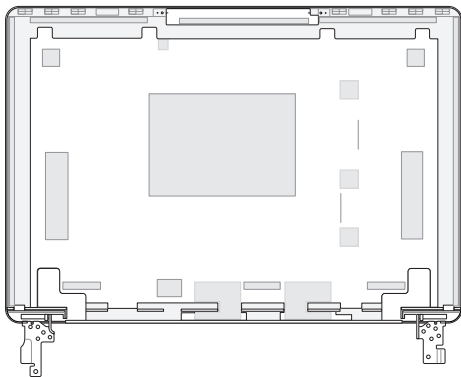
2. Align and install the bracket onto the camera module, then secure the bracket using the screw(s) you removed earlier.



3. Reattach the tape as shown.
4. Install the components you removed in the *Before you begin* section.



## Top cover (model with framed screen)

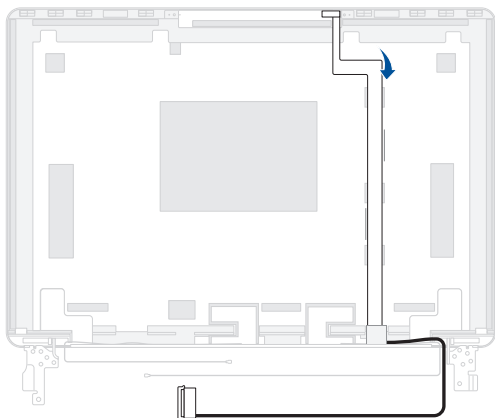


### Before you begin

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:
  - Display panel module
  - Hinge cap
  - Display bezel
  - Display panel
  - Camera module

## Removal

1. Remove the indicated cable.

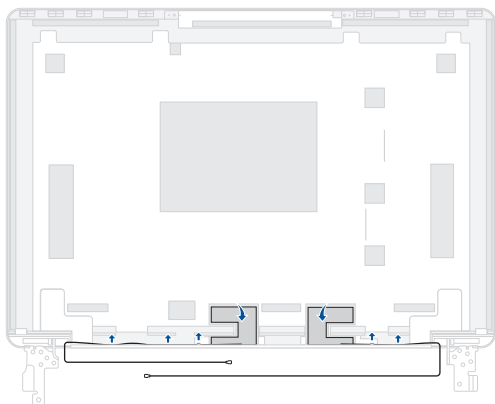


2. Remove the antenna cable(s) as shown.

---

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

---



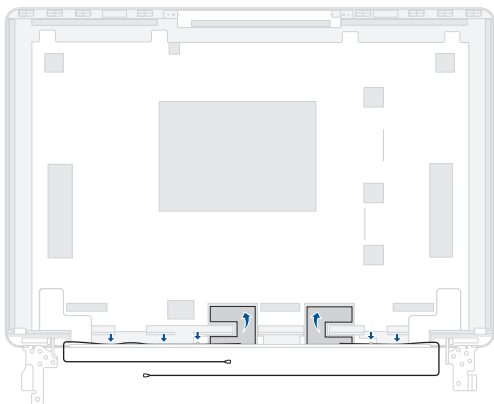
## Installation

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.

---



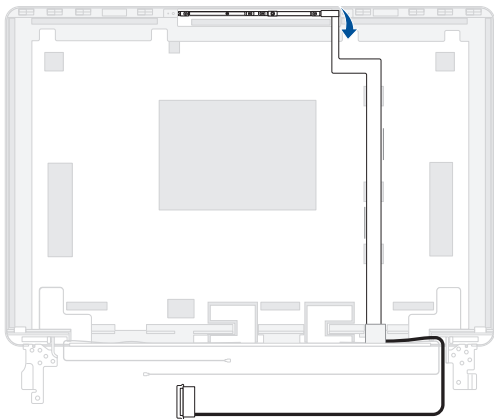
2. Install the camera module.

---

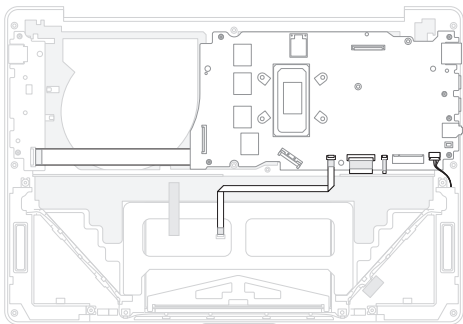
**NOTE:** Refer to the corresponding chapter when performing the procedures.

---

3. Install and reconnect the cable to the camera module.
4. Install the components you removed in the *Before you begin* section.



# Motherboard



## Before you begin

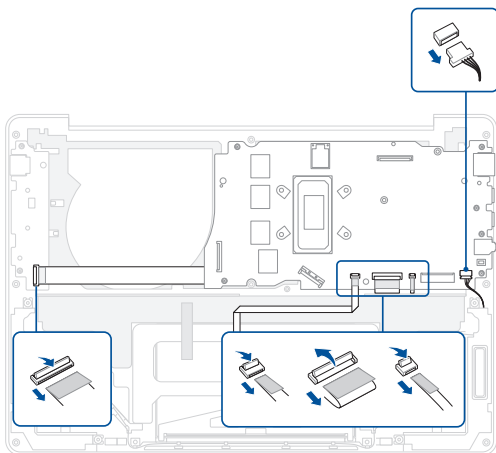
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
  - Battery
  - M.2 SSD module
  - Heat sink
  - Fan module
  - Display panel module

## Screw list

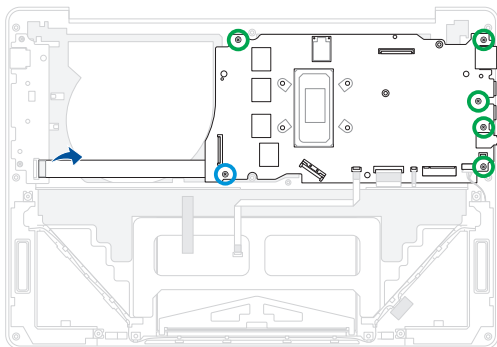
- ⊕ M2.0 X 3.5L (5pcs)
- ⊕ M2.0 X 2.0L (1pc)

## Removal

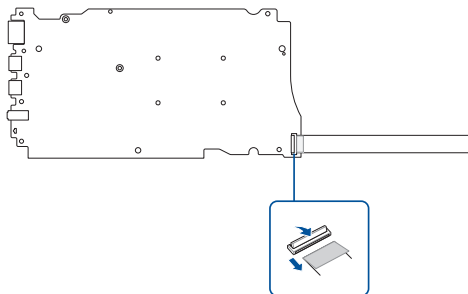
1. Remove and disconnect the cable(s) as shown in the illustration below.



2. Remove the screw(s), then remove the motherboard.



3. Turn over the motherboard, then disconnect the I/O board cable.



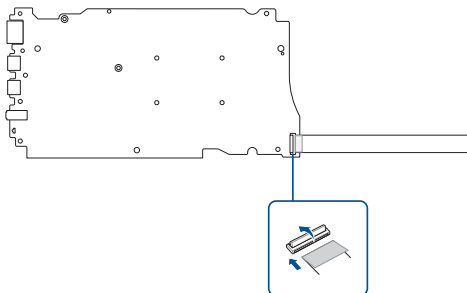
## Installation

1. Reconnect the I/O board cable to the rear side of the motherboard.

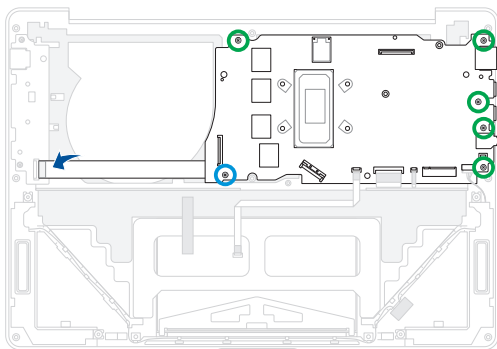
---

**NOTE:** Remove the release liner on the rear side of the I/O board cable if you are replacing the existing I/O board cable with a new one.

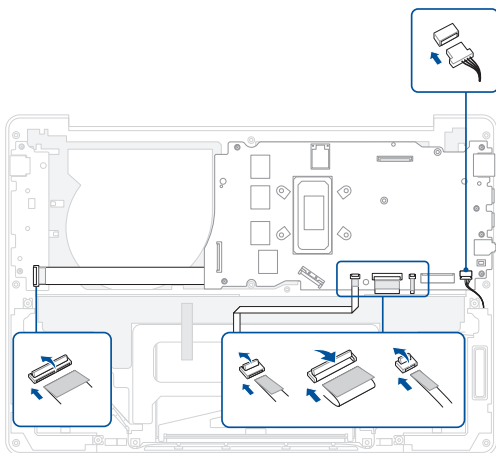
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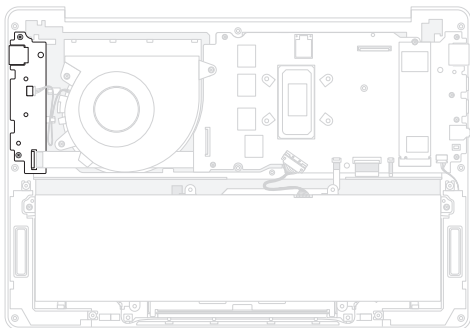
2. Install the motherboard, then secure the motherboard using the screw(s) you removed earlier.



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



## I/O board



### Before you begin

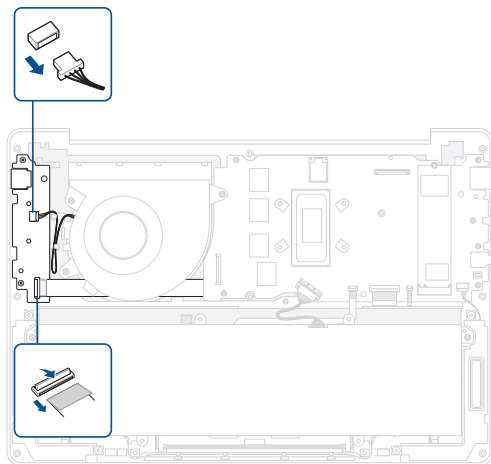
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
  - Heat sink
  - Display panel module

### Screw list

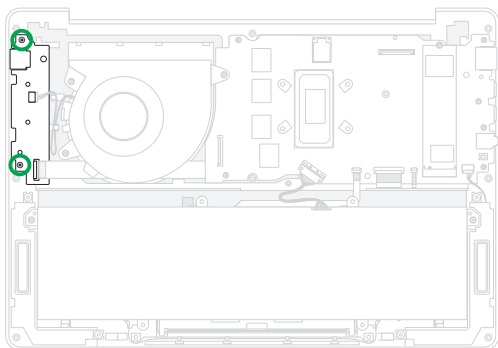
- ⊕ M2.0 X 3.5L (2pcs)

## Removal

1. Disconnect the cable(s).

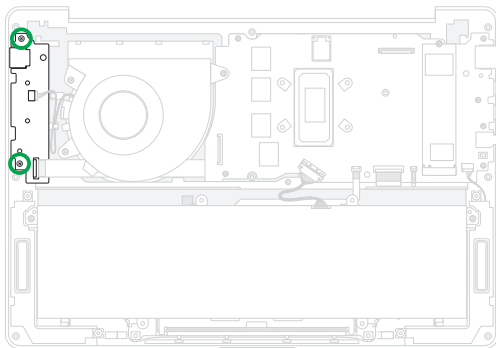


2. Remove the screw(s), then remove the I/O board.

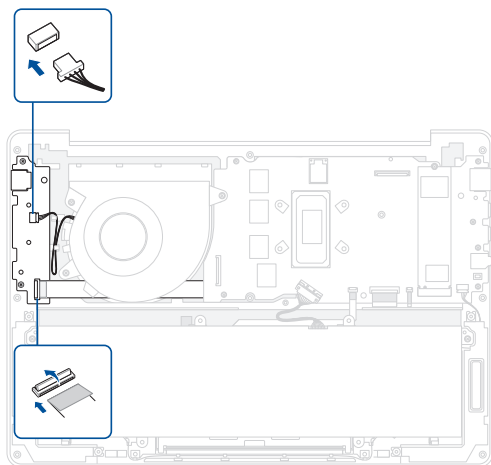


## Installation

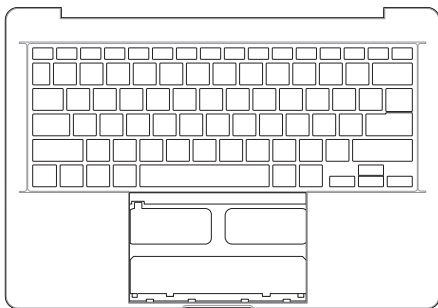
1. Install the I/O board, then secure the I/O board using the screw(s) you removed earlier.



2. Reconnect the cable(s).
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.

## Removal

Remove the following components:

- Battery
- M.2 SSD module
- Speakers
- Touchpad
- Heat sink
- Fan module
- Display panel module
- Motherboard
- I/O board

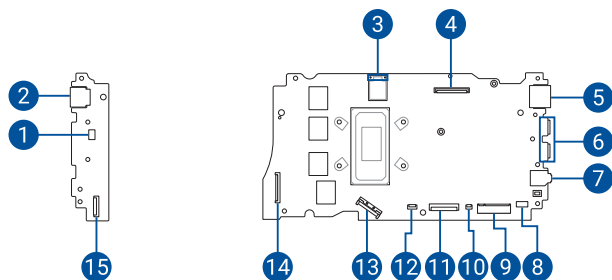
## Installation

Install the components you removed in the *Removal* section.

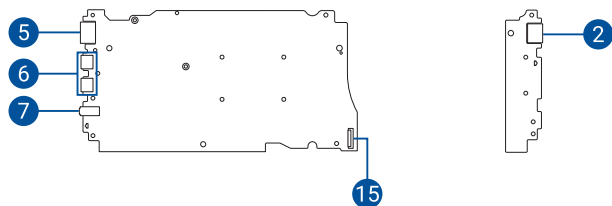
## ***Appendices***

# Wiring and connection diagrams

## Top View



## Bottom View



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