

E26024

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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



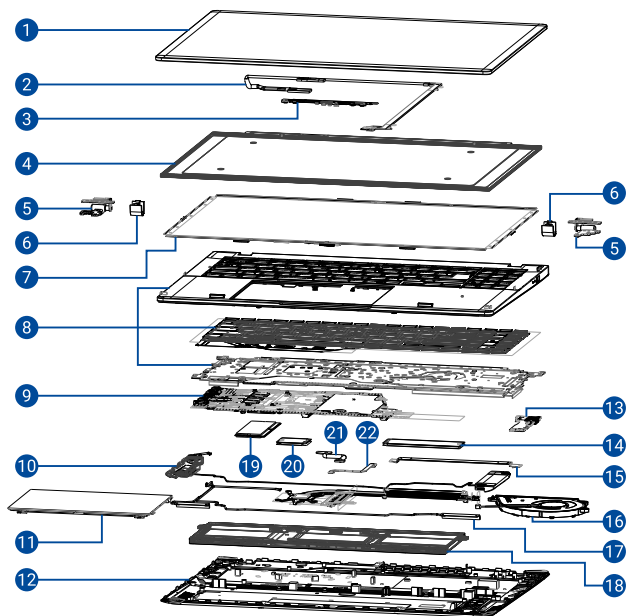
Power adapter

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/.

Major components

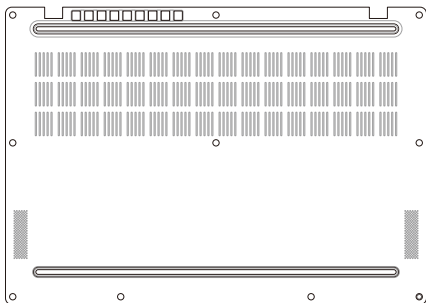


- | | |
|--------------------|-------------------------|
| 1. Top cover | 12. Bottom cover |
| 2. Camera cable | 13. I/O board |
| 3. Camera module | 14. M.2 SSD module |
| 4. Display panel | 15. I/O board cable |
| 5. Display hinges | 16. Fan |
| 6. Hinge caps | 17. Antenna cables |
| 7. Display bezel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

Chapter 2:

Service Procedures

Bottom cover



Before you begin

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

Screw list

14" model

- ⊕ M2.0 X 7.0L (4pcs)
- ⊕ M2.0 X 4.2L captive screw (1pc)
- ⊕ M2.0 X 4.0L (5pcs)

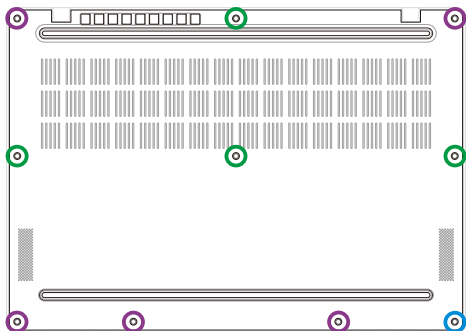
16" model

- ⊕ M2.0 X 7.0L (6pcs)
- ⊕ M2.0 X 4.2L captive screw (1pc)
- ⊕ M2.0 X 4.0L (3pcs)

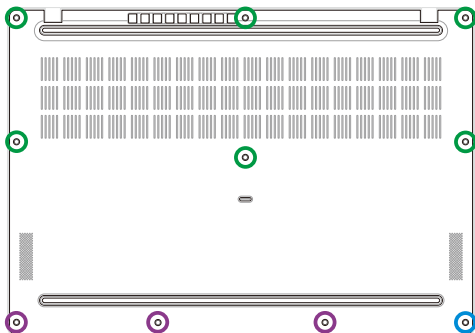
Removal

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

14" model



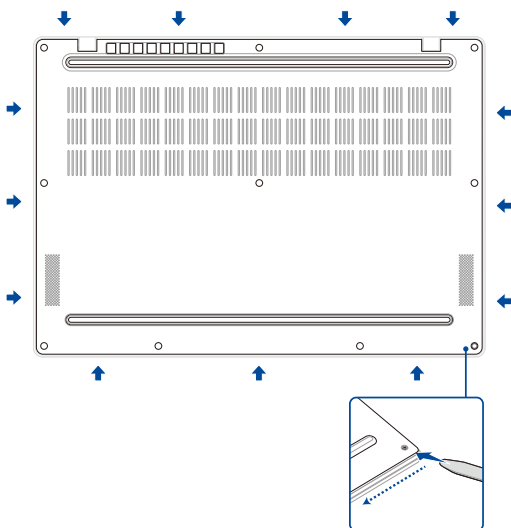
16" model



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.

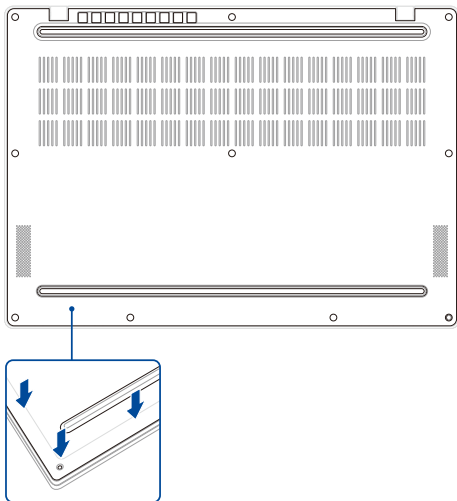


Installation

1. Install the bottom cover.

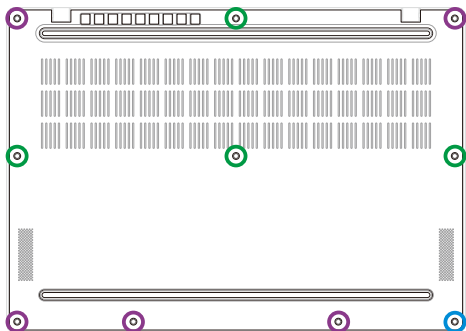
NOTE: When replacing the existing component with a new one, ensure you move the washer from the old component to the new bottom cover.

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

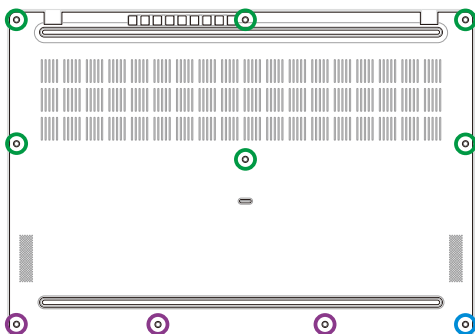


3. Tighten the captive screw located at the bottom right corner of the bottom cover.
4. Secure the bottom cover using the screw(s) you removed earlier.

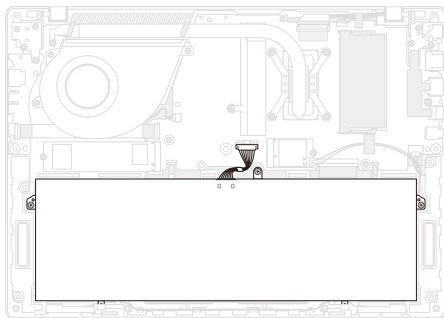
14" model



16" model



Battery



Before you begin

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

Screw list

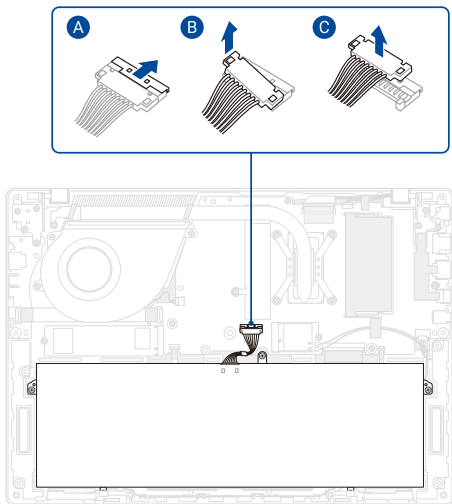
- ⊕ M2.0 X 3.5L (3pcs)

Removal

1. Disconnect the battery power cable.

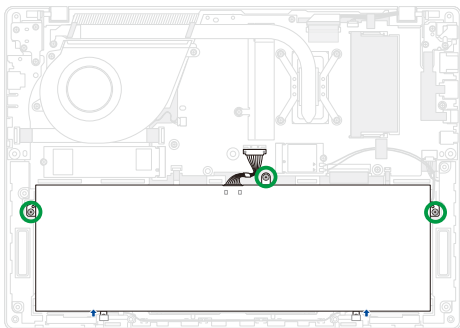
IMPORTANT!

- 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.
-

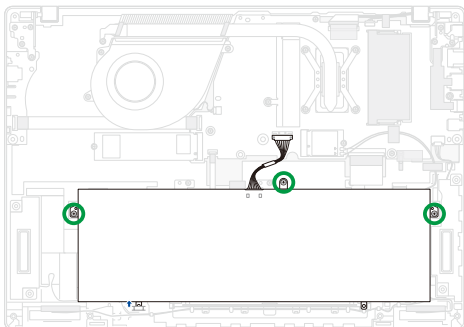


2. Remove the screw(s) from the battery.
3. Remove the battery.

14" model

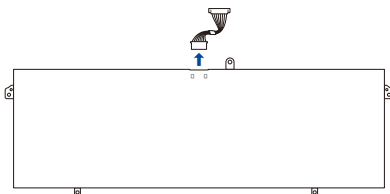


16" model



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

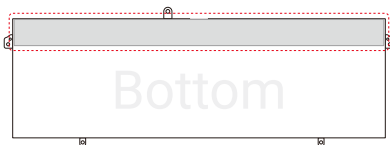
NOTE: This step is only required when you are replacing the existing component with a new one.



Installation

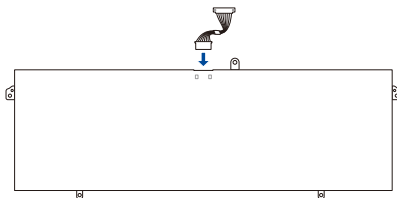
1. Attach the polyester film to the rear side of the battery as shown.

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



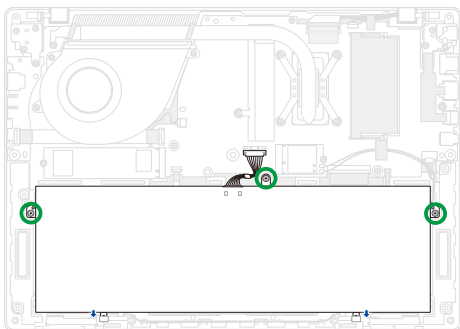
2. Connect the battery power cable to the battery (if applicable).

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

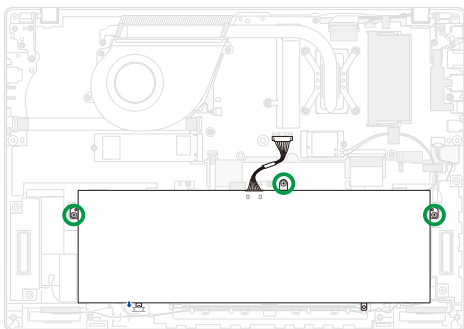


3. Install the battery.
4. Secure the battery using the screw(s) you removed earlier.

14" model



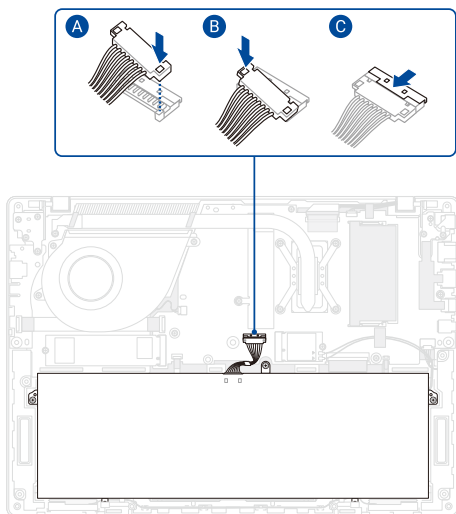
16" model



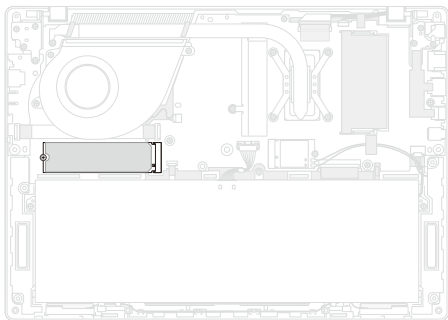
5. Reconnect the battery power cable.

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

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



M.2 SSD module



Before you begin

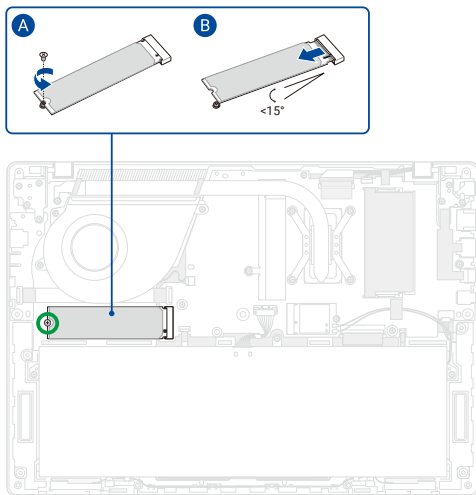
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.

Screw list

- ⊕ M2.0 X 2.0L (1pc)

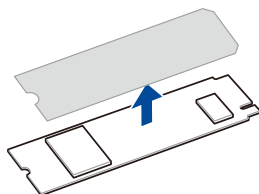
Removal

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



2. Remove the absorber sheet from the M.2 SSD module.

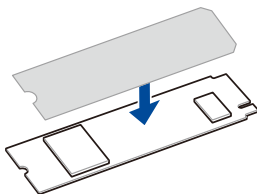
NOTE: This step is only required when you are replacing the existing component with a new one.



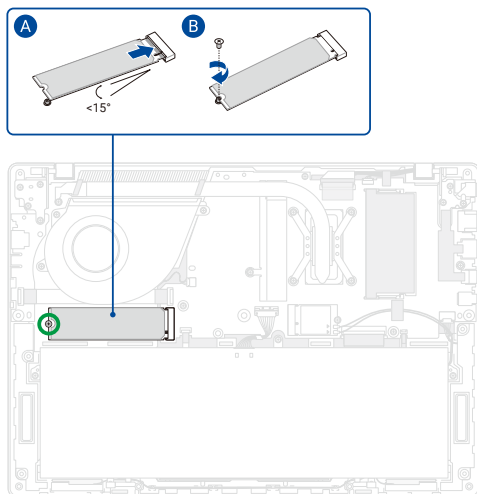
Installation

1. Attach the absorber sheet to the M.2 SSD module.

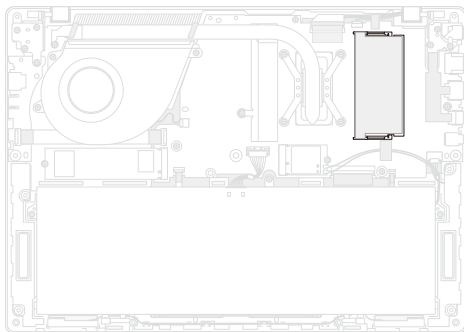
NOTE: This step is only required when you are replacing the existing component with a new one.



2. 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.
3. Install the components you removed in the *Before you begin* section.



RAM module

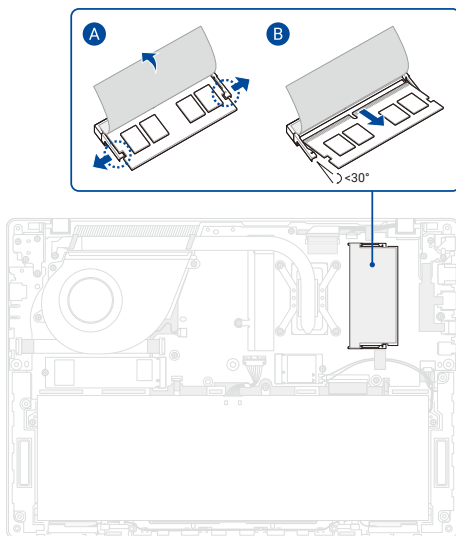


Before you begin

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

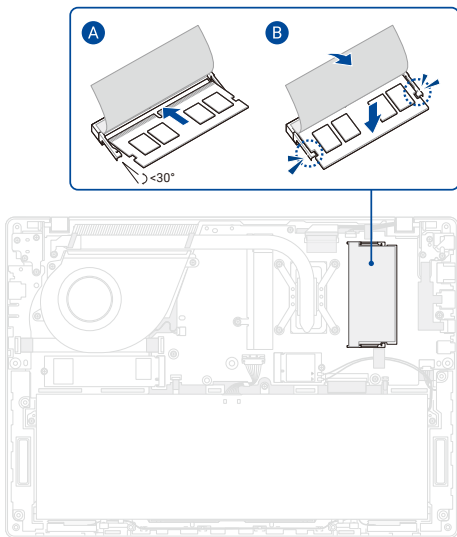
Removal

Lift the aluminum foil, then push the clips outwards to remove the RAM module.

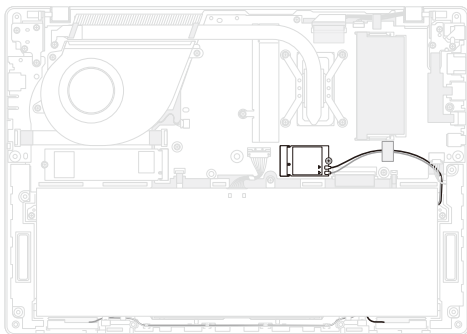


Installation

1. Align and insert the RAM module into the RAM module slot, then put the aluminum foil back.
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.

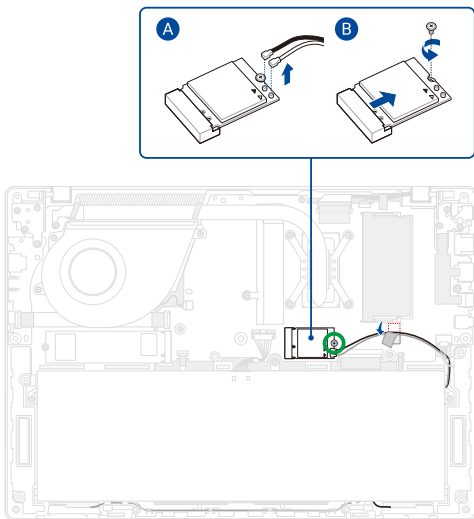
Screw list

- ⊕ M2.0 X 2.0L (1pc)

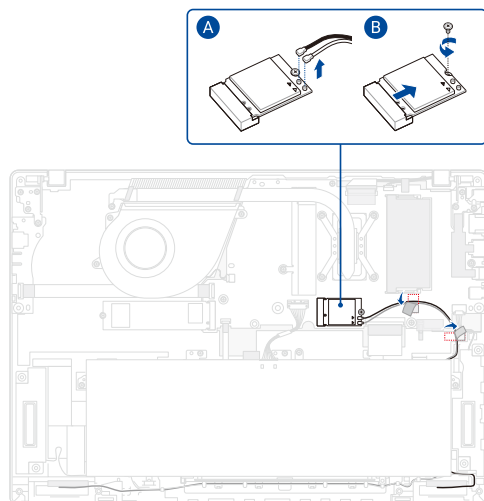
Removal

1. Remove the tape from the antenna cable(s).
2. Disconnect the antenna cable(s), then remove the screw and remove the WLAN module.

14" model



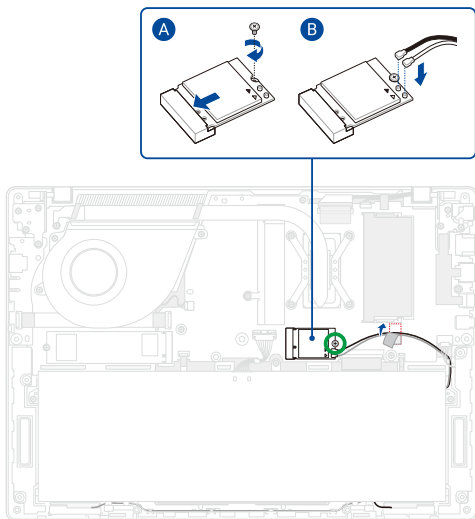
16" model



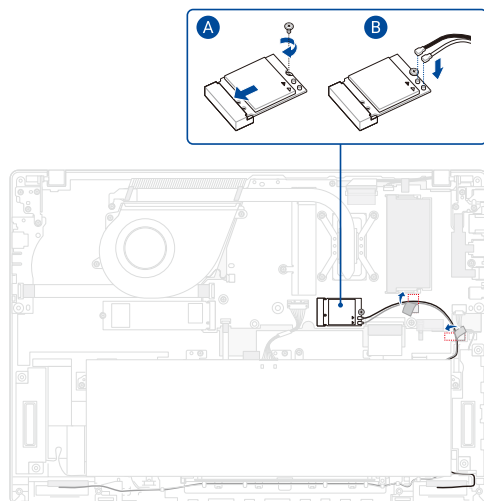
Installation

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

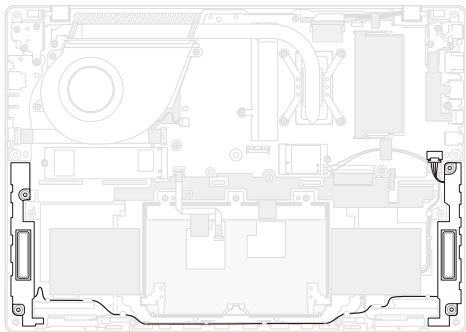
14" model



16" model



Speakers



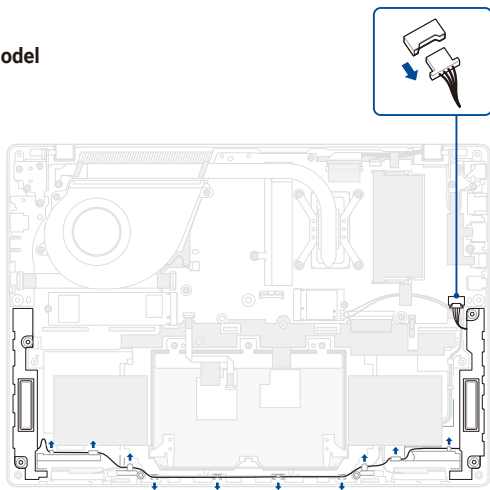
Before you begin

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

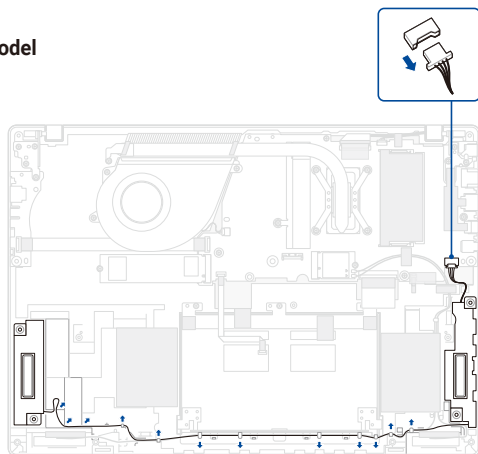
Removal

1. Disconnect the speaker connector.
2. Remove the speaker cable from the cable guide(s).
3. Remove the speakers.

14" model



16" model



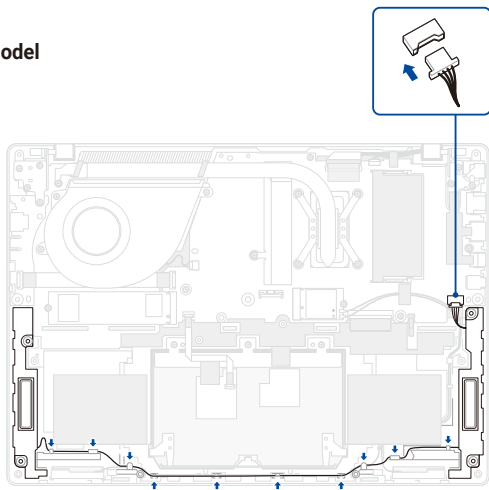
Installation

1. Install the speakers.
2. Route the speaker cable through the cable guide(s).

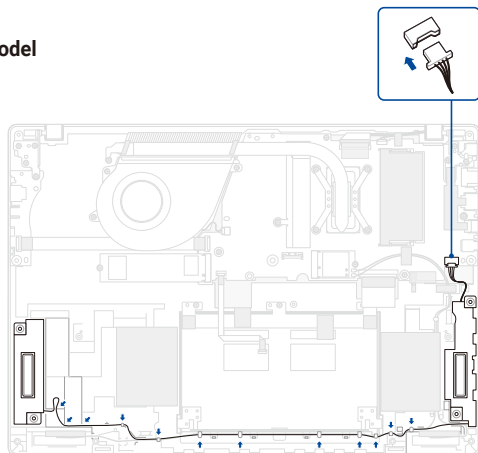
IMPORTANT! Damage may occur if cables are not properly routed through the cable guides. Confirm that all cables are routed through each of the indicated cable guides before proceeding.

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

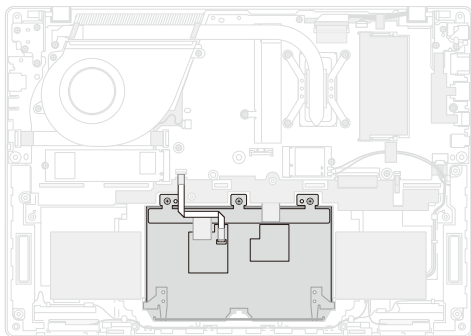
14" model



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

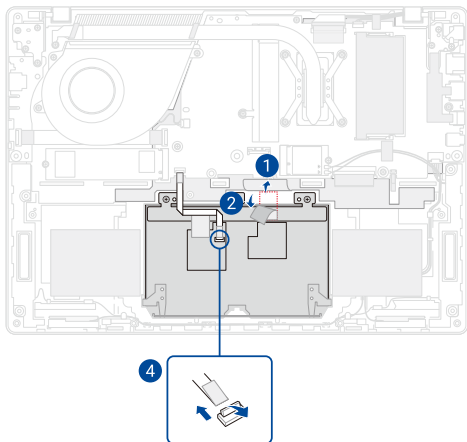
Screw list

- ⊕ M1.6 X 1.6L (3pcs)

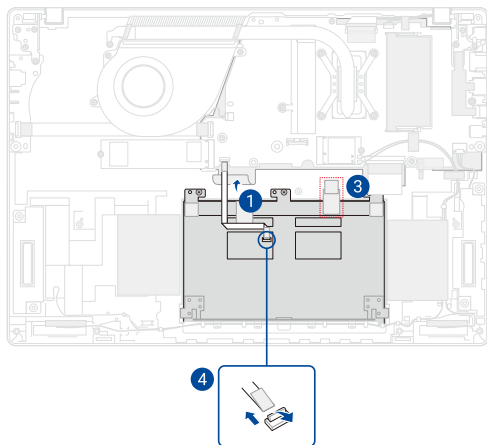
Removal

1. Partially peel off the polyester film on the keyboard module as shown.
2. (On 14" model) Remove the tape.
3. (On 16" model) Remove the rubber piece and tape.
4. Disconnect the cable.

14" model

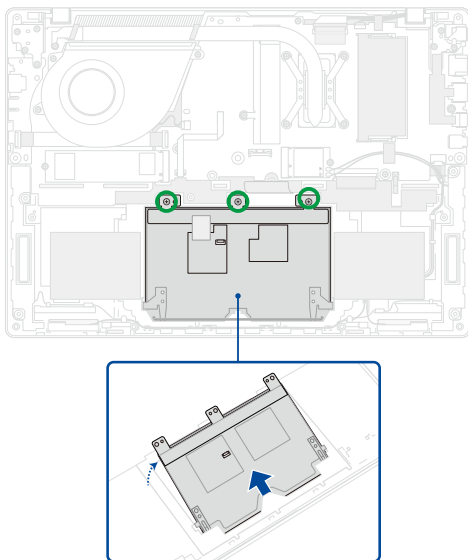


16" model

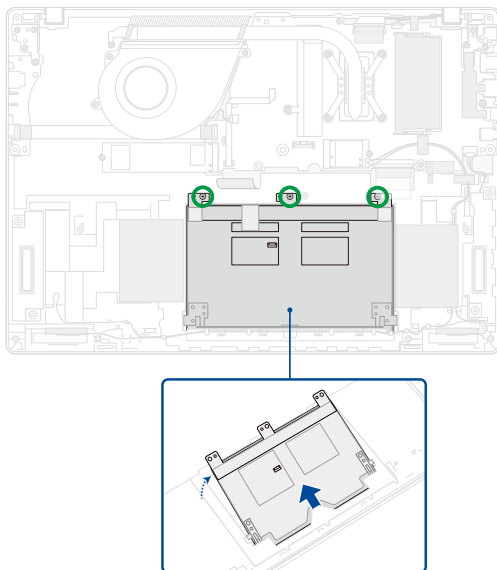


5. Remove the screw(s), then remove the touchpad.

14" model



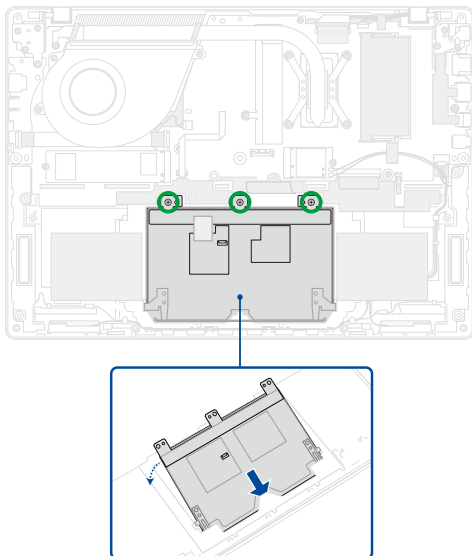
16" model



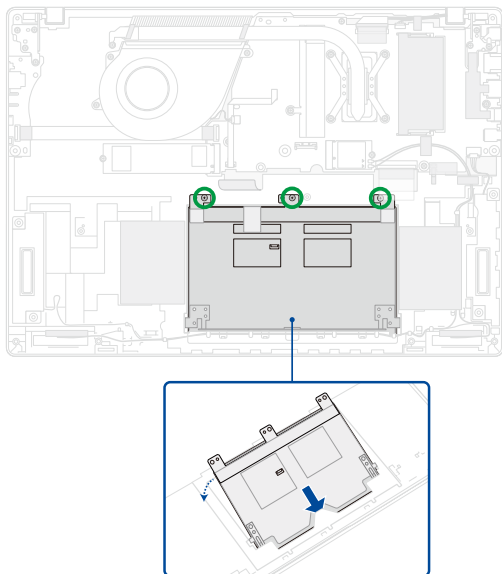
Installation

1. Align and install the touchpad as shown in the illustration below, then secure the touchpad using the screw(s) you removed earlier.

14" model

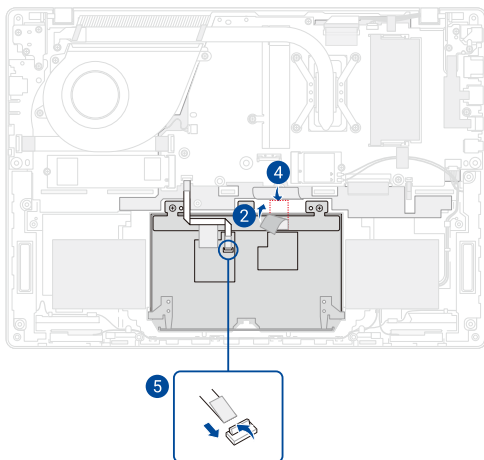


16" model

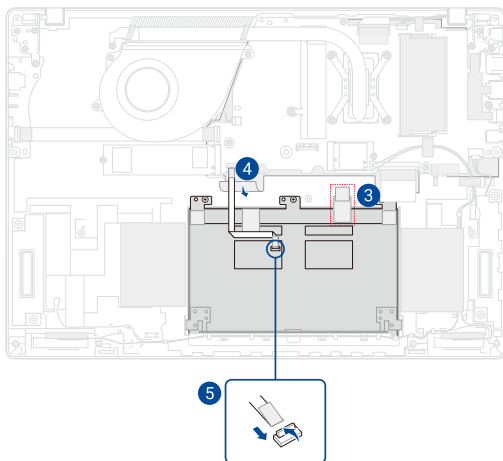


2. (On 14" model) Reattach the tape.
3. (On 16" model) Reattach the tape, then reattach the rubber piece.
4. Reattach the polyester film.
5. Reconnect the cable.
6. Install the components you removed in the *Before you begin* section.

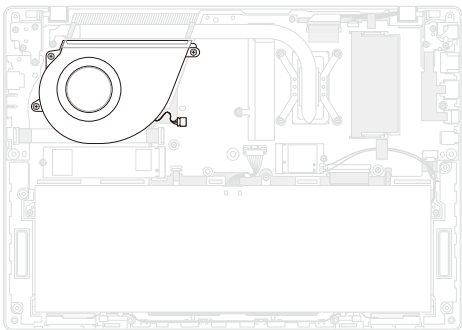
14" model



16" model



Fan module



Before you begin

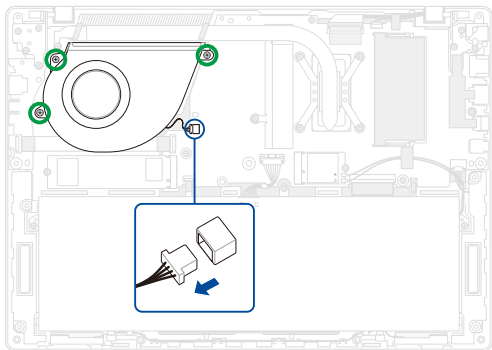
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.

Screw list

- ⊕ M2.0 X 3.5L (3pcs)

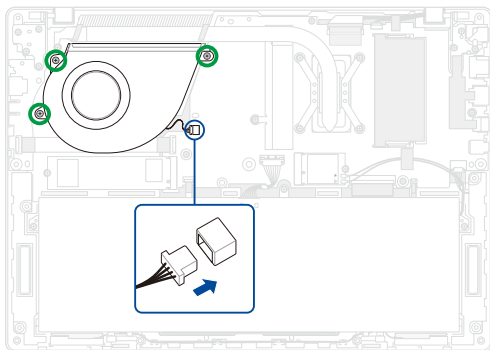
Removal

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

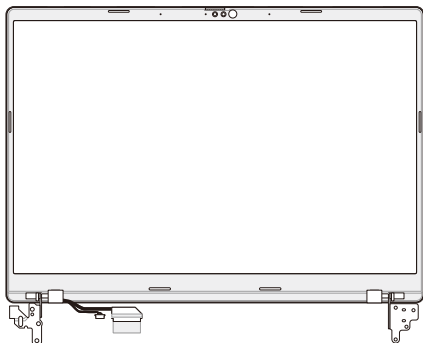


Installation

1. Install the fan.
2. Secure the fan using the screw(s) you removed earlier.
3. Reconnect the fan connector.
4. 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.

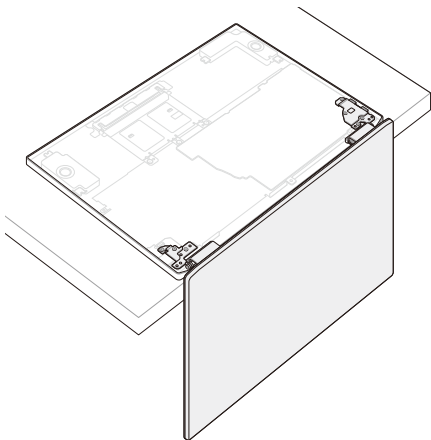
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.

Screw list

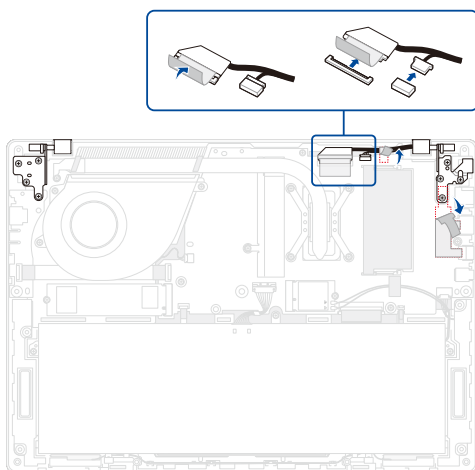
- ⊕ M2.0 X 4.5L (5pcs)
- ⊕ M2.0 X 3.5L (3pcs)

Removal

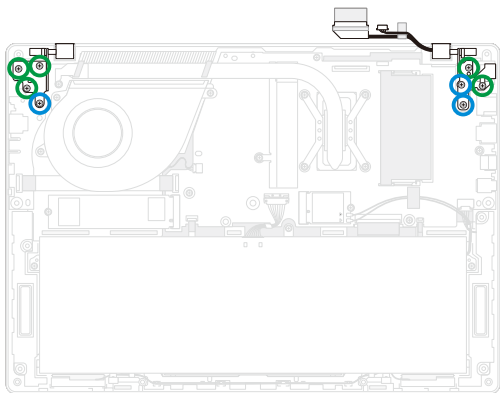
1. Place your device with the display panel hanging over the edge of the workspace as shown in the illustration below.



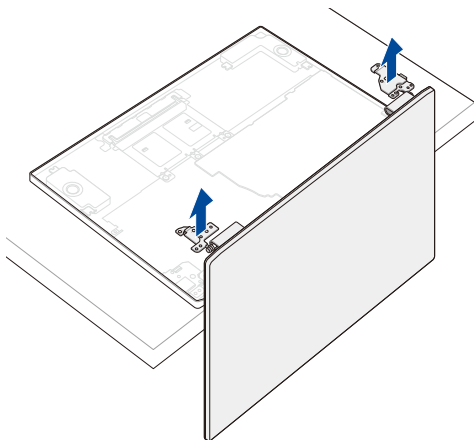
2. Remove the tape and disconnect the cable(s) from the motherboard.
3. Remove the aluminum foil.



4. Remove the screw(s).

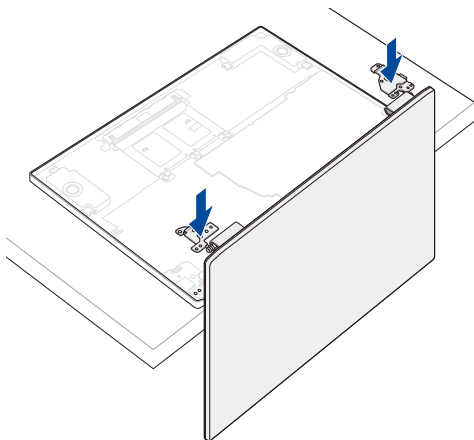


5. Remove the display panel module.

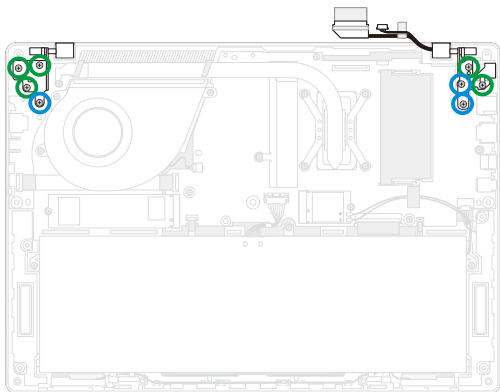


Installation

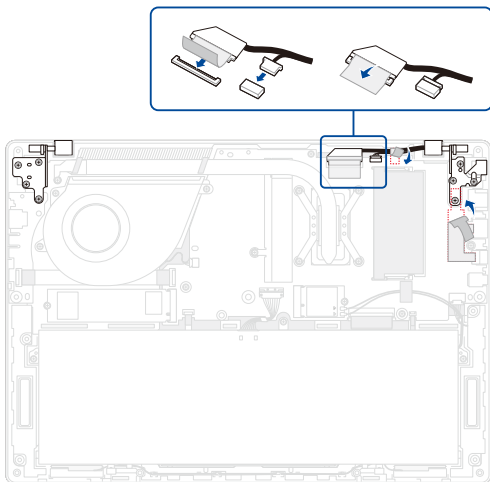
1. In the orientation shown, align and place the hinges of the display panel module on the screw holes.



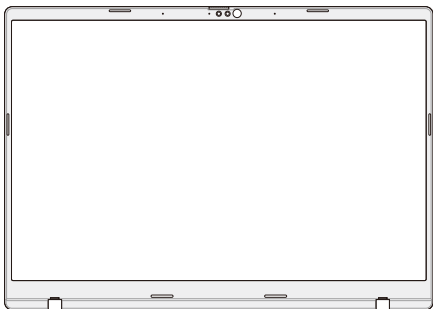
2. Secure the hinges using the screw(s) you removed earlier.



3. Reattach the aluminum foil as shown.
4. Reconnect the cable(s) and reattach the tape.
5. Install the components you removed in the *Before you begin* section.



Display bezel



Before you begin

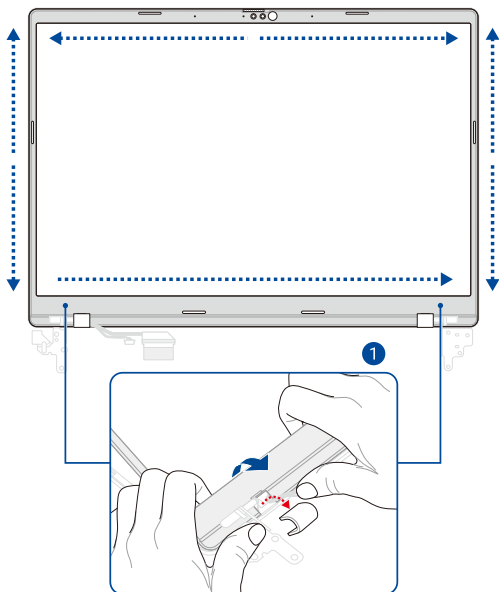
IMPORTANT! This component is fragile. Damage may occur if the service procedure is performed incorrectly. If you are uncertain about proceeding, stop and contact an authorized service center for assistance.

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:
 - Display panel module

Removal

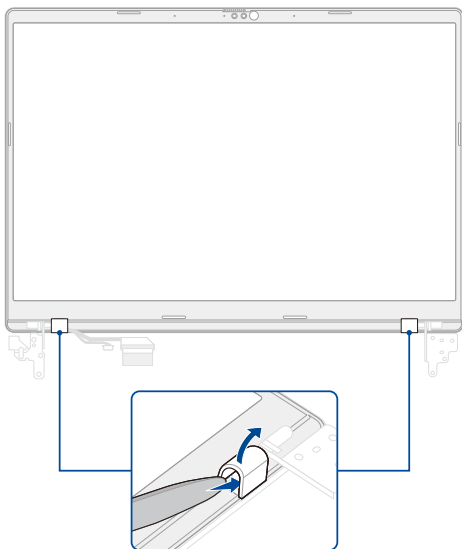
14" model

1. Pry the lower side of the bezel loose as shown to make the hinge caps pop out.
2. Pry the remaining sides of the bezel loose, then remove the bezel.

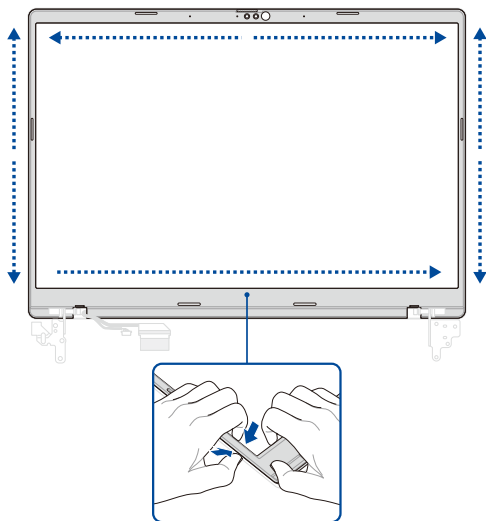


16" model

1. Use the plastic blade to pry up the hinge caps as shown in the illustration below.



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

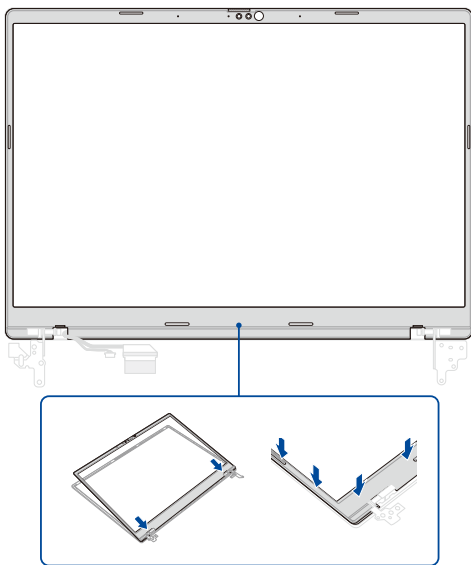


Installation

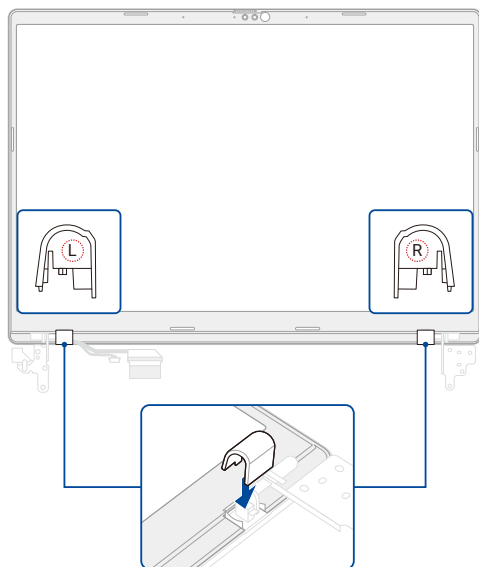
1. Remove the release liner(s) from the tape on the bezel.

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

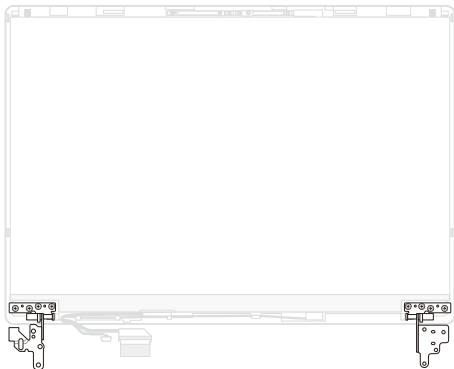
2. Align and install the bezel.



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



Display hinges



Before you begin

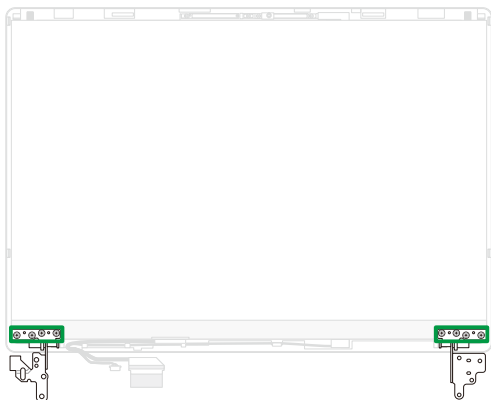
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
 - Display panel module
 - Display bezel

Screw list

- ⊕ M2.5 X 3.0L (8pcs)

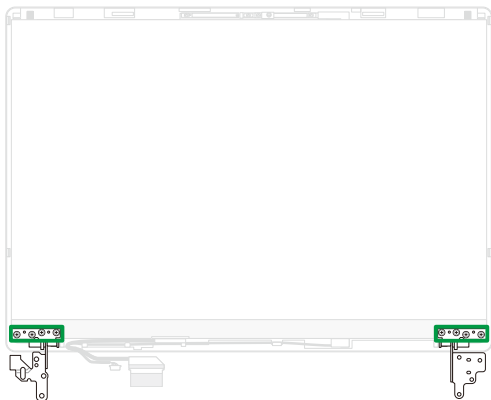
Removal

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

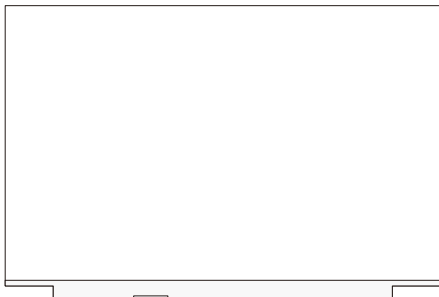


Installation

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.
-

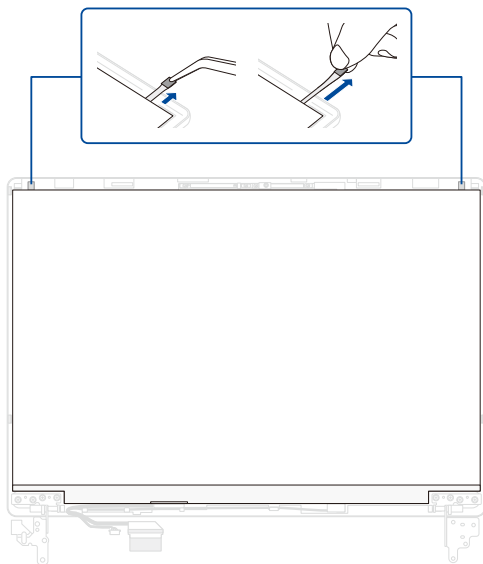
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
 - Display panel module
 - Display bezel

Removal

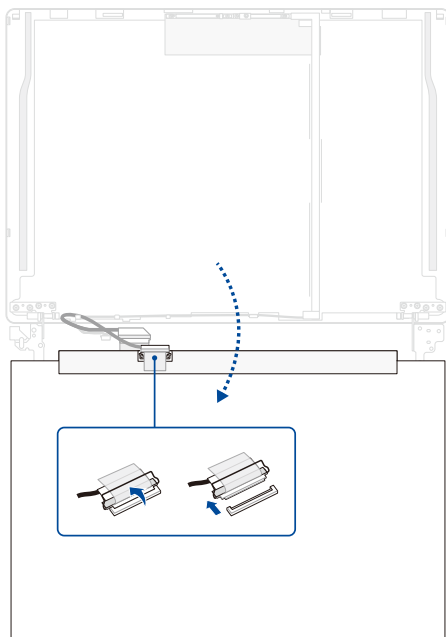
1. Locate the tip of the stretch release tape, then carefully pull out the stretch release tape as shown in the illustration below.

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.

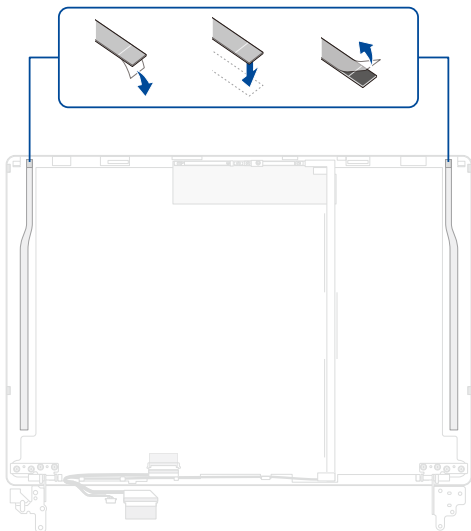


3. Lift the display panel, then disconnect the cable from the rear side of the display panel.

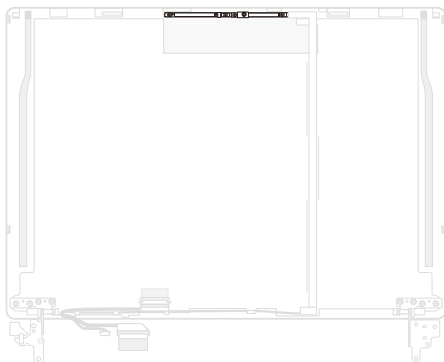


Installation

1. Place the top cover in the orientation shown in the illustration below.
2. Remove the release liner(s) from the bottom side of the stretch release tape.
3. Align and attach the stretch release tape to the top cover.
4. Remove the release liner(s) from the top side of the stretch release tape.



Camera module



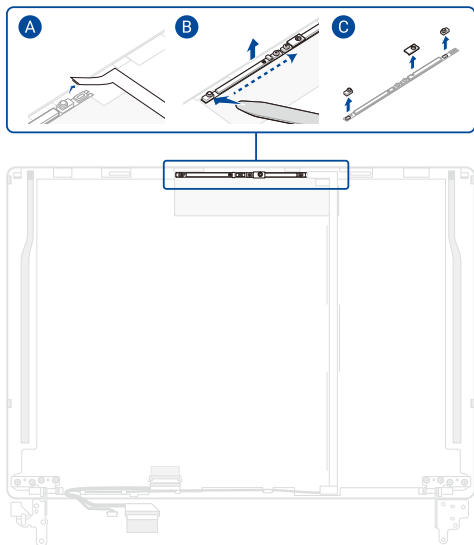
Before you begin

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:
 - Display panel module
 - Display bezel
 - Display panel

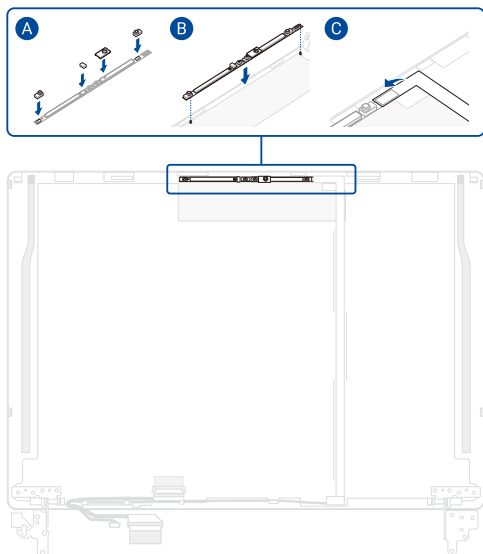
Removal

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

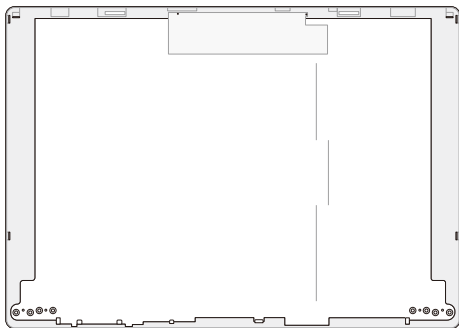


Installation

1. Attach the rubber caps and sponge 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



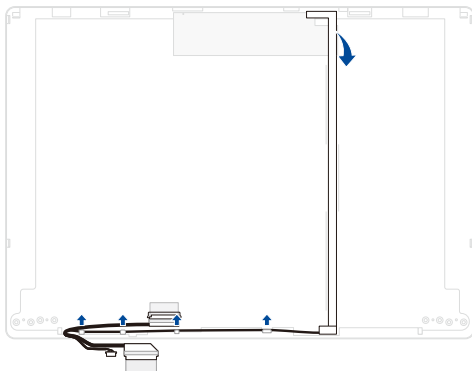
Before you begin

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:
 - Display panel module
 - Display bezel
 - Display hinges
 - Display panel
 - Camera module

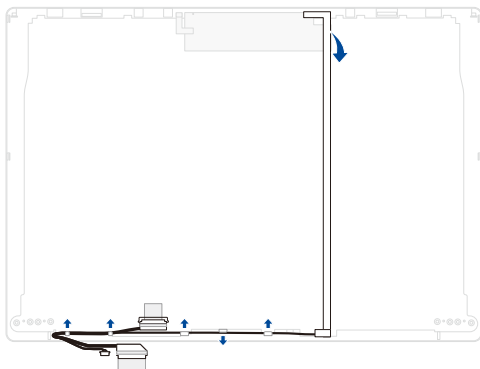
Removal

Remove the cable as shown in the illustration below.

14" model



16" model



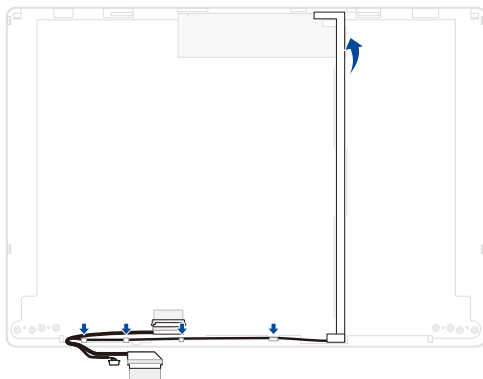
Installation

1. Install the cable and route the cable through the cable guide(s).

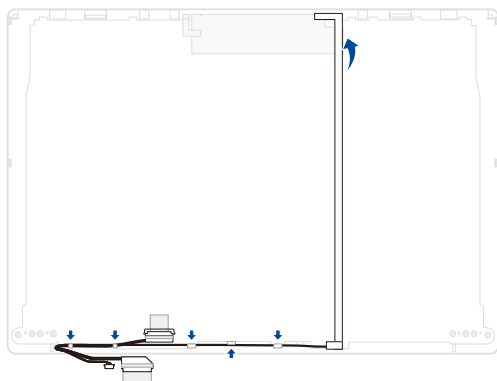
IMPORTANT! Damage may occur if cables are not properly routed through the cable guides. Confirm that all cables are routed through each of the indicated cable guides before proceeding.

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

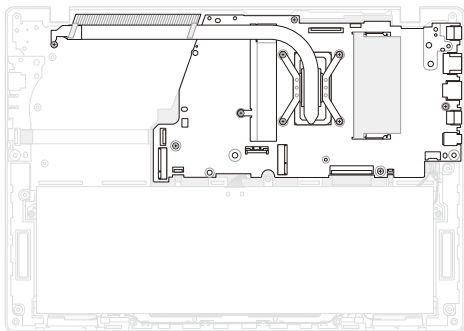
14" model



16" model



Heat sink and motherboard



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.

3. Remove the following components:

- M.2 SSD module
- RAM module
- WLAN module
- Fan module
- Display panel module

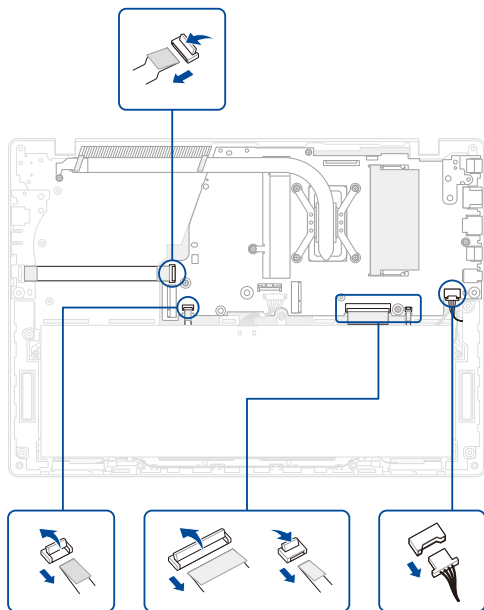
Screw list

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

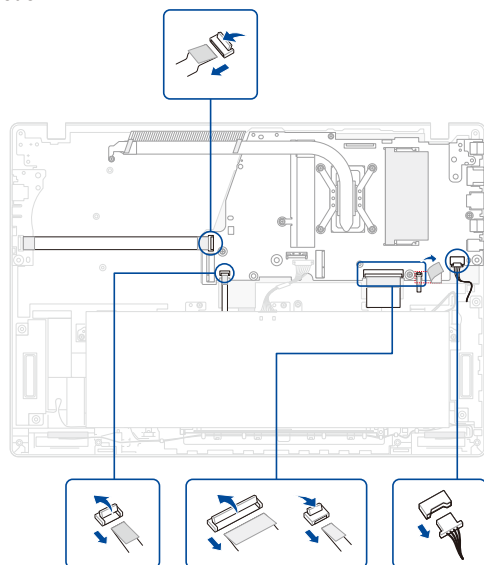
Removal

1. (On 16" model) Remove the tape from the keyboard backlight cable.
2. Remove and disconnect the cable(s) as shown in the illustration below.

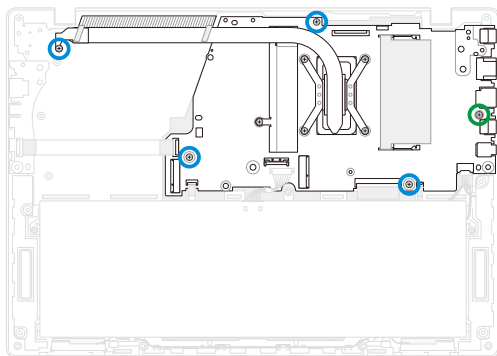
14" model



16" model

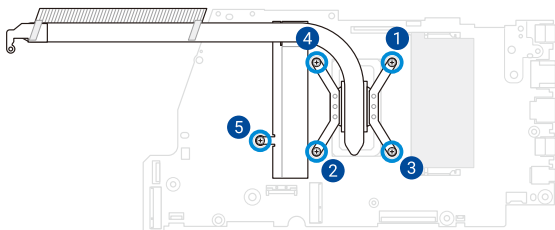


3. Remove the screw(s), then remove the motherboard with heat sink attached.



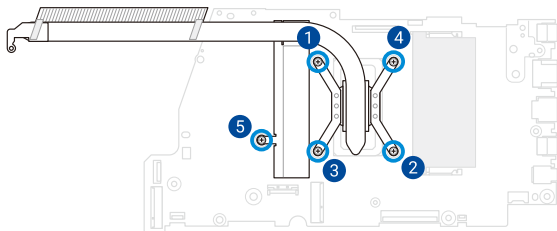
4. Remove the heat sink screw(s) one by one in the sequence shown in the illustration below, then remove the heat sink from the motherboard.

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

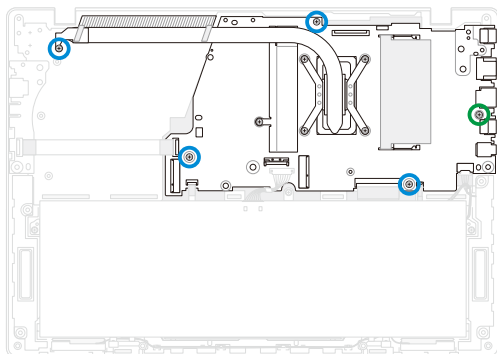


Installation

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

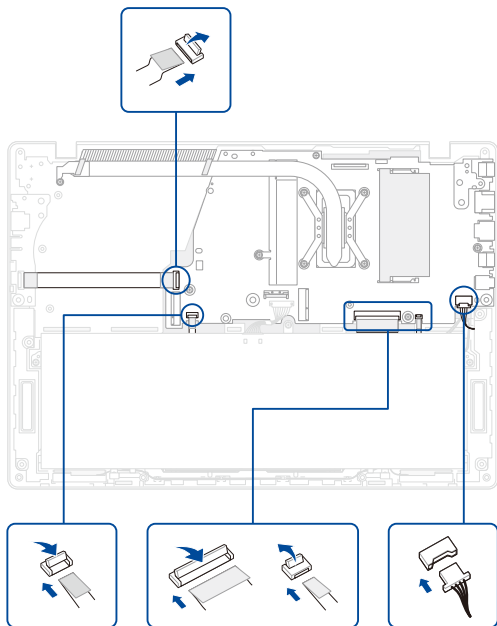


2. Install the motherboard with heat sink attached, then secure the motherboard and heat sink using the screw(s) you removed earlier.

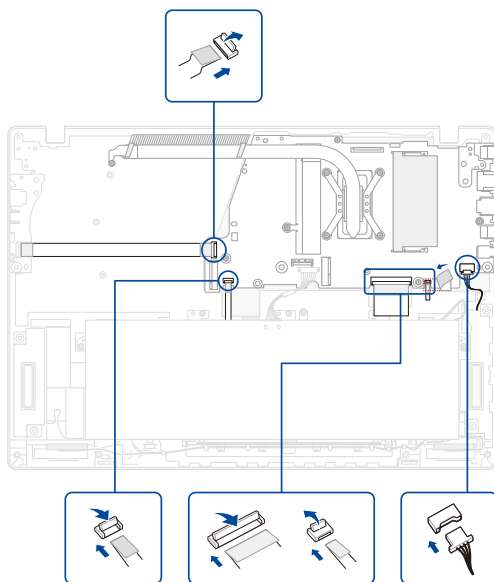


3. Reconnect the cable(s) as shown in the illustration below.
4. (On 16" model) Reattach the tape to the keyboard backlight cable.
5. Install the components you removed in the *Before you begin* section.

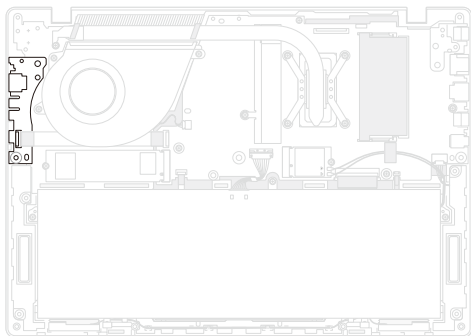
14" model



16" model



I/O board

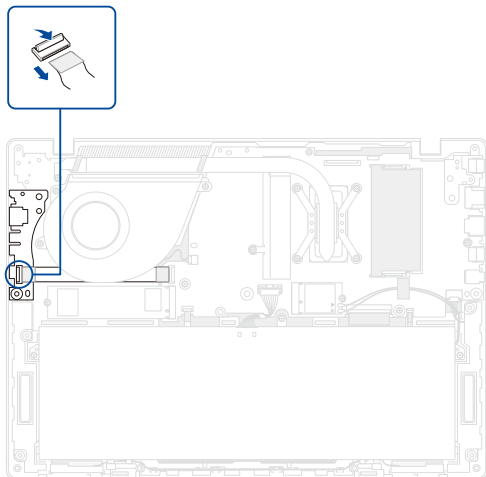


Before you begin

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:
 - Display panel module

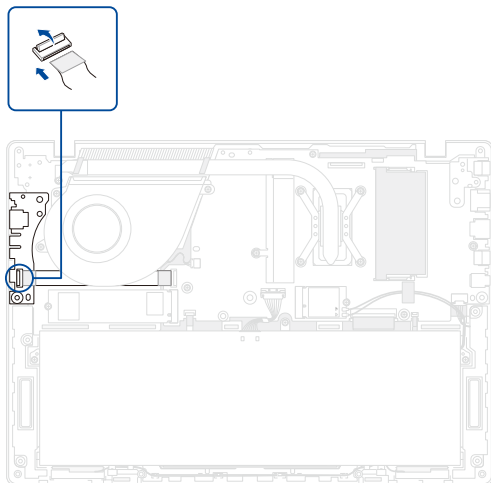
Removal

Disconnect the I/O board cable, then remove the I/O board.

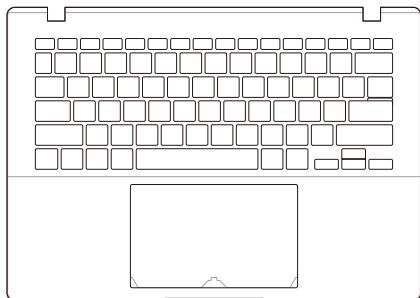


Installation

1. Install the I/O board, then reconnect the I/O board cable.
2. Install the components you removed in the *Before you begin* section.



Keyboard module



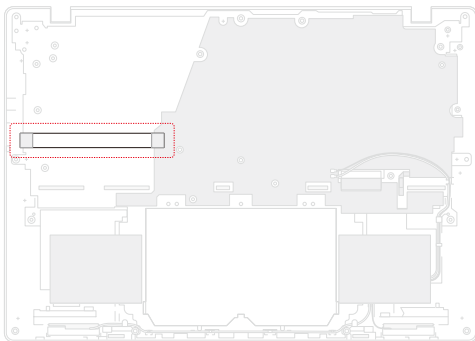
Before you begin

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

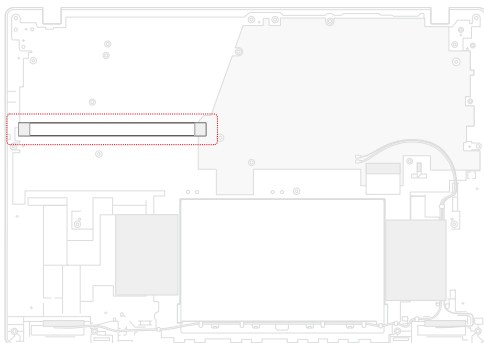
Removal

Remove the I/O board cable.

14" model



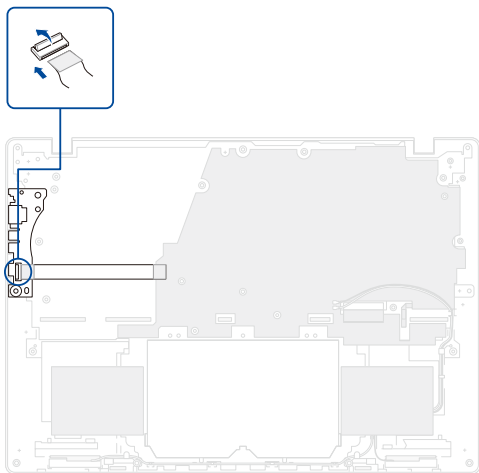
16" model



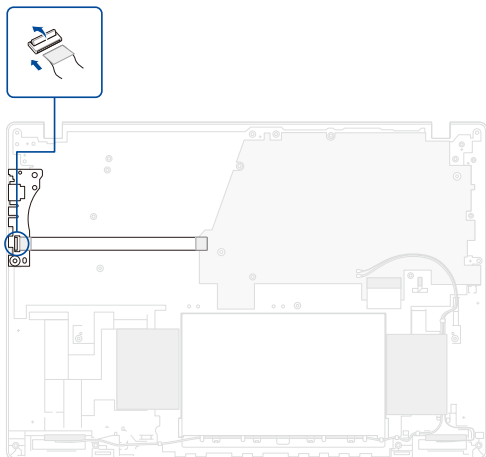
Installation

1. Install the I/O board, then reconnect the I/O board cable.
2. Install the components you removed in the *Before you begin* section.

14" model



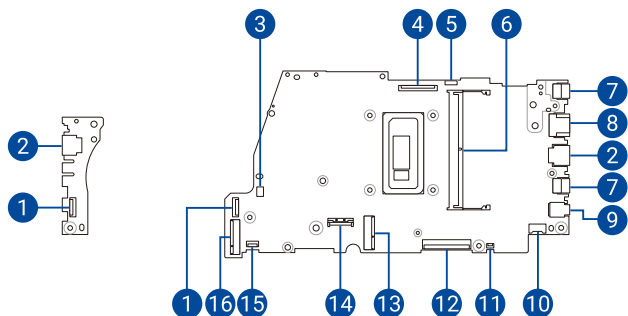
16" model



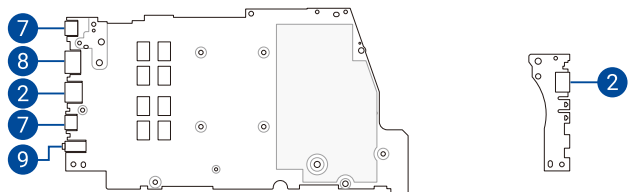
Appendices

Wiring and connection diagrams

Top View



Bottom View



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

