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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



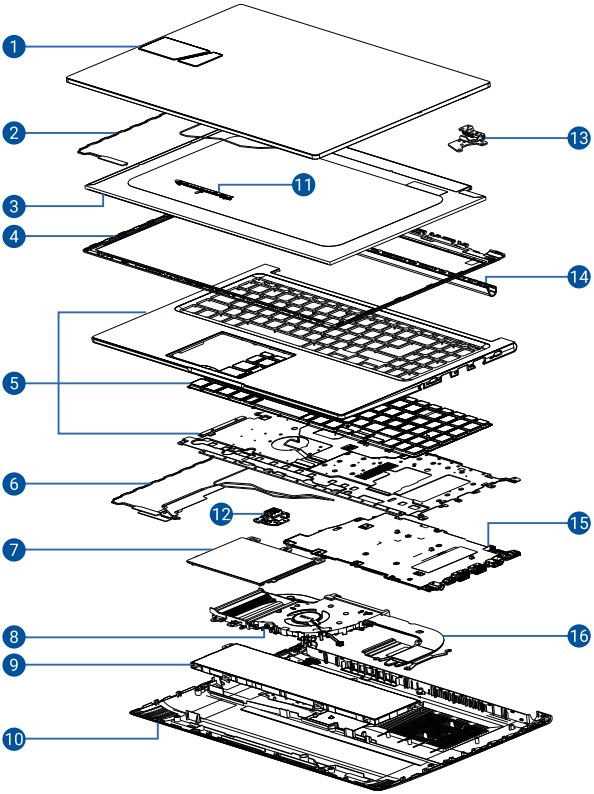
Power adapter

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/.

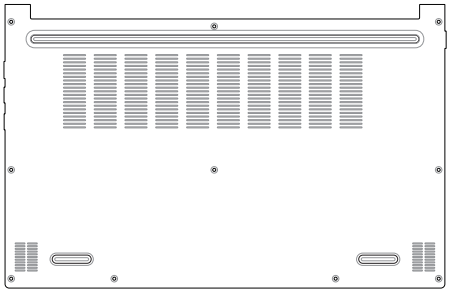
Major components



1. Top cover
2. Main antenna cable
3. Display panel
4. Display bezel
5. Keyboard module
6. Auxiliary antenna cable
7. Touchpad
8. Fan/Fan duct
9. Battery
10. Bottom cover
11. Camera module
12. I/O board
13. Display hinges
14. Hinge cap
15. Motherboard/M.2 SSD module/ WLAN module/RAM module
16. Heat sink

Chapter 2: Service Procedures

Bottom cover



Before you begin

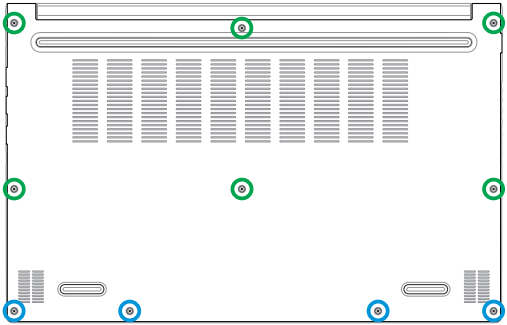
Read the **Safety Precautions** and complete the **Pre-repair Checklist**.

Screw list

- M2.0 X 6.5L (6pcs)
- M2.0 X 3.5L (4pcs)

Removal

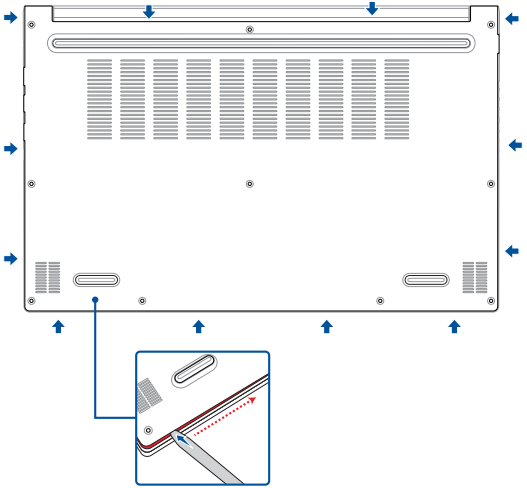
1. Remove the screw(s) from the bottom cover.



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

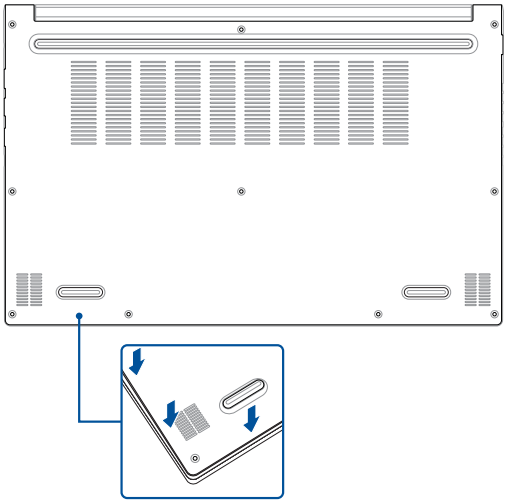
IMPORTANT! Avoid sliding the plastic blade along the side of your device or air vents to prevent damage.

3. Remove the bottom cover.

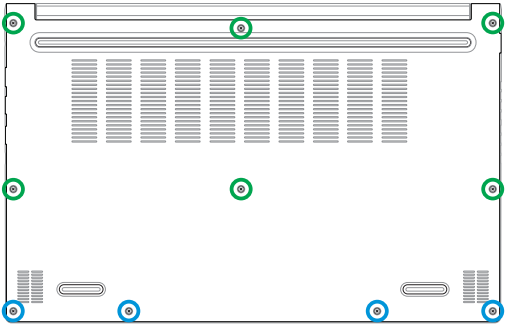


Installation

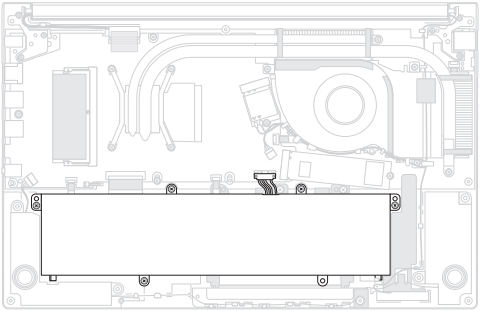
1. Install the bottom cover.
2. Gently press down on the bottom cover until it clicks into place.



3. 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

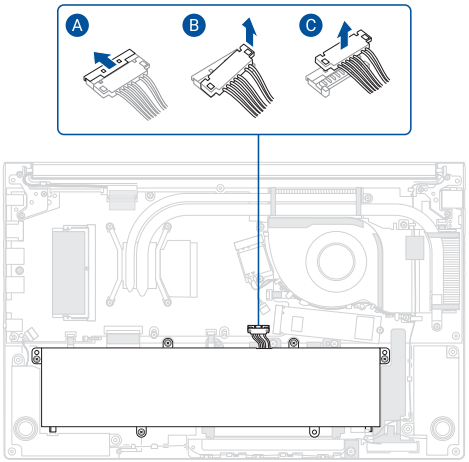
- ⊕ M2.0 X 3.5L (5pcs)

Removal

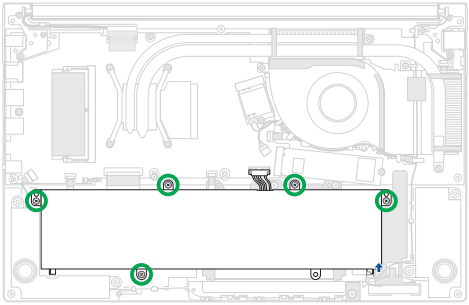
1. Disconnect the battery power cable.

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.

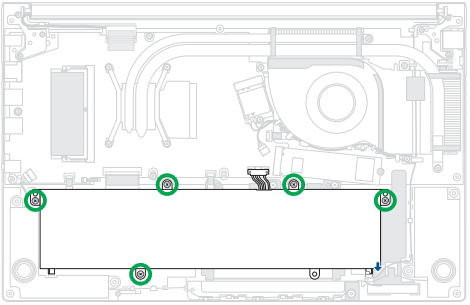


2. Remove the screw(s) from the battery.
3. Remove the battery.



Installation

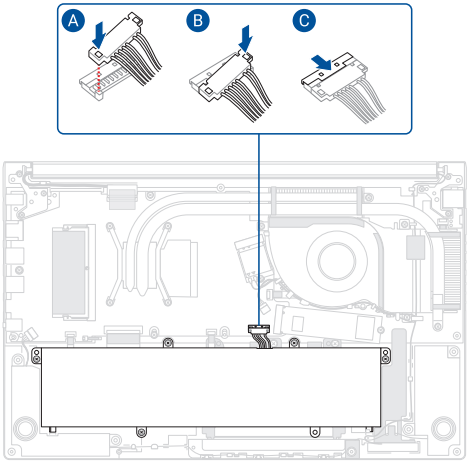
1. Install the battery.
2. Secure the battery using the screw(s) you removed earlier.



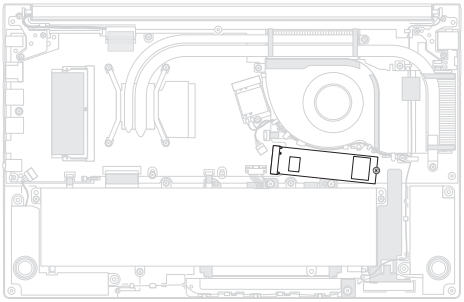
3. Reconnect the battery power cable.

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.



M.2 SSD module



Before you begin

NOTE: The device may be equipped with either an M.2 2230 or M.2 2280 SSD module, but the removal and installation procedures remain the same.

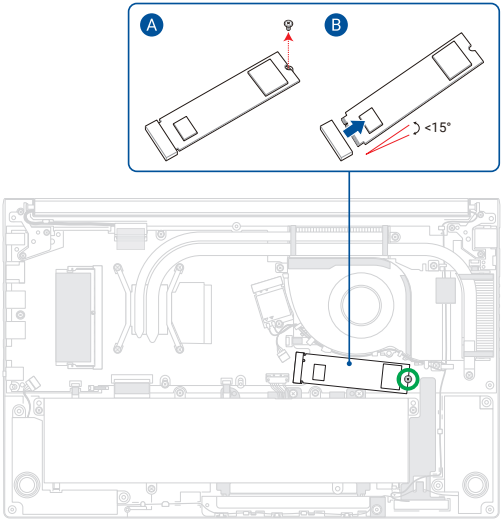
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.

Screw list

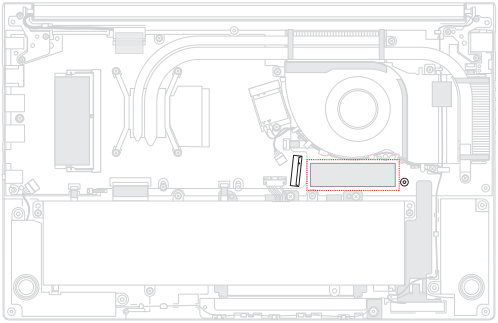
- M2.0 X 3.0L (1pc)

Removal

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

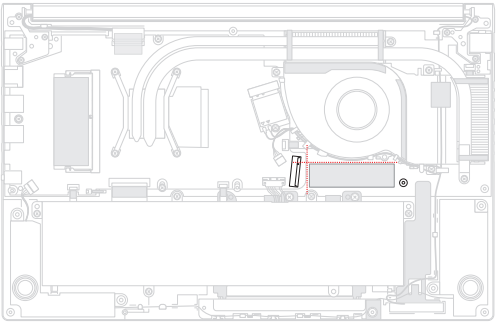


2. Remove the thermal pad.



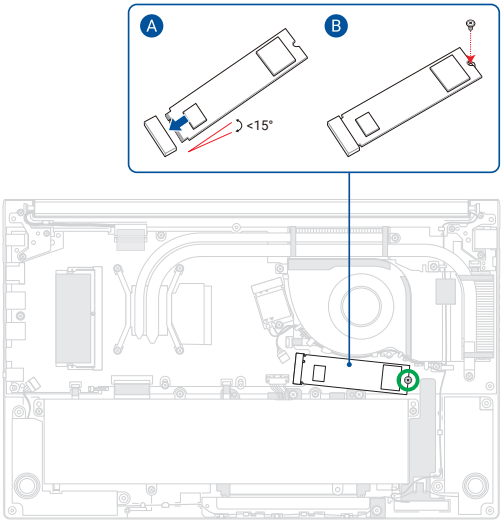
Installation

1. Align and attach the thermal pad as shown.

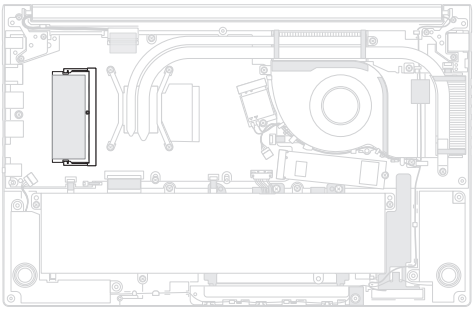


2. Align and insert the M.2 SSD module into the M.2 connector on the motherboard, then secure the M.2 SSD module using the screw you removed earlier.

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



RAM module

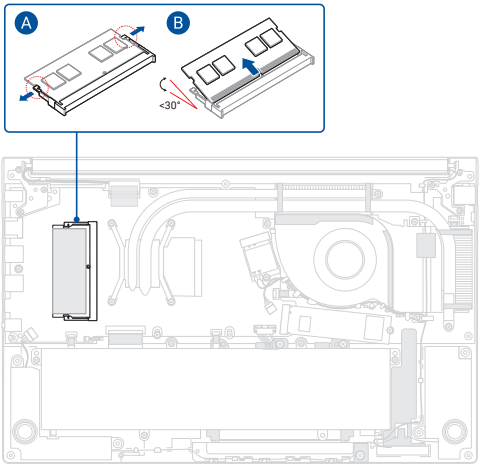


Before you begin

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

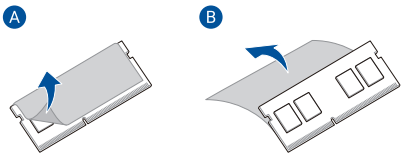
Removal

1. Push the clips outwards to remove the RAM module.



2. Remove the absorber sheet.

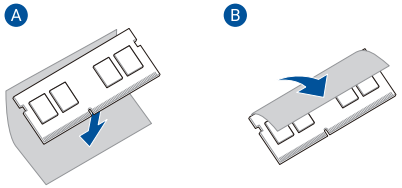
NOTE: This step is only required when you are replacing the existing component with a new one.



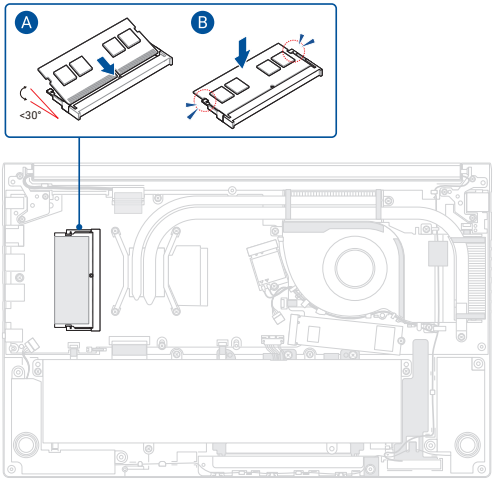
Installation

1. Attach the absorber sheet to the RAM module as shown.

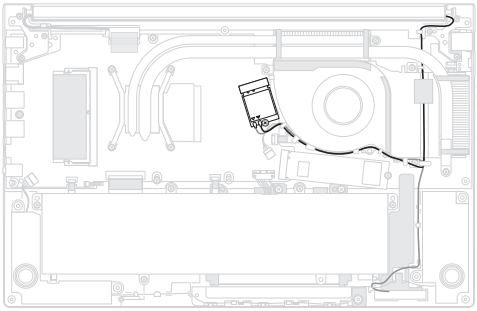
NOTE: This step is only required when you are replacing the existing component with a new one.



2. Align and insert the RAM module into the RAM module slot.
3. Install the components you removed in the *Before you begin* section.



WLAN module



Before you begin

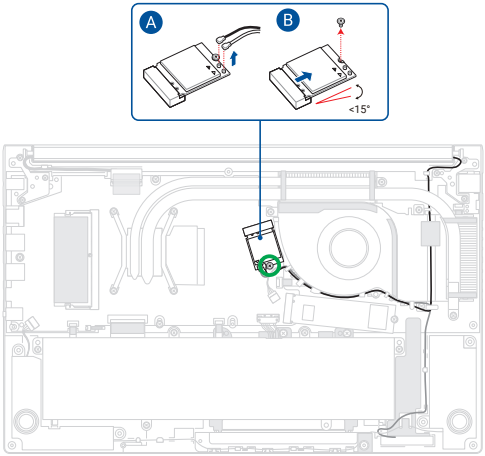
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.

Screw list

- ⊕ M2.0 X 2.0L (1pc)

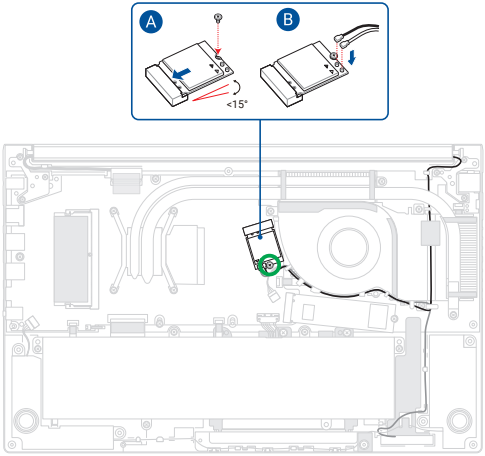
Removal

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

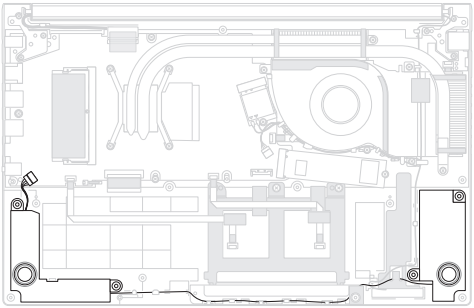


Installation

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

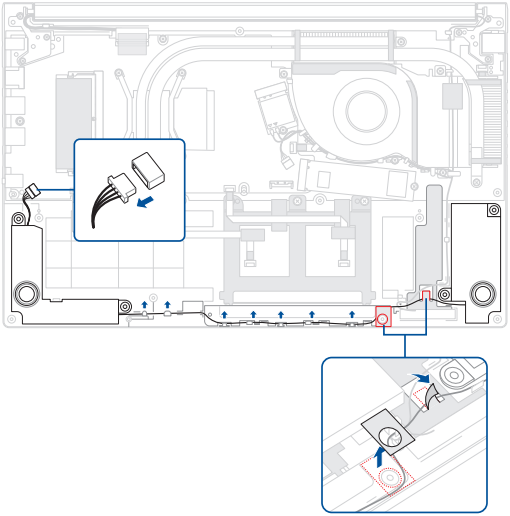


Before you begin

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. Remove the polyester film and partially tear off the copper foil from the speaker cable, then remove the speaker cable from the cable guide(s).
3. Remove the speakers.



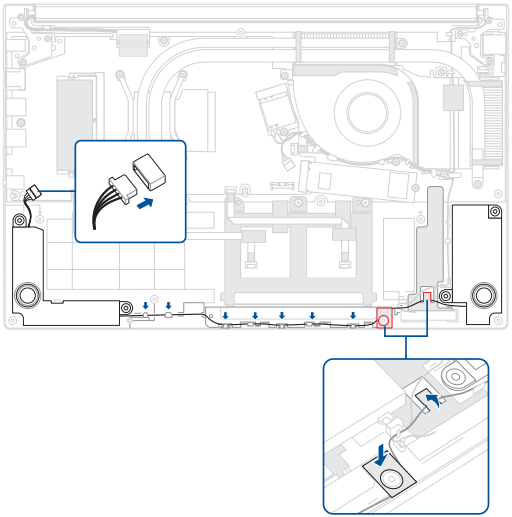
Installation

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

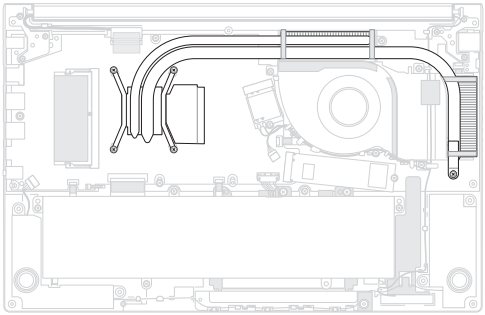
   IMPORTANT! Damage may occur if cables are not properly routed through the cable guides. Confirm that all cables are routed through each of the indicated cable guides before proceeding.

2. Align and reattach the polyester film and copper foil as shown.

3. 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.

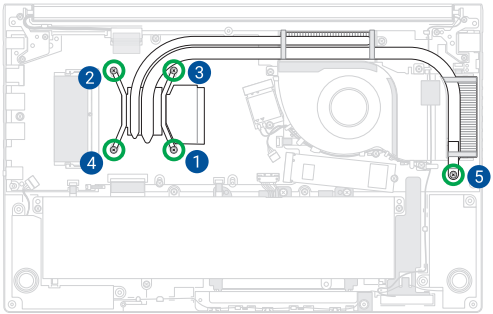
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.

Screw list

- M2.0 X 2.0L (5pcs)

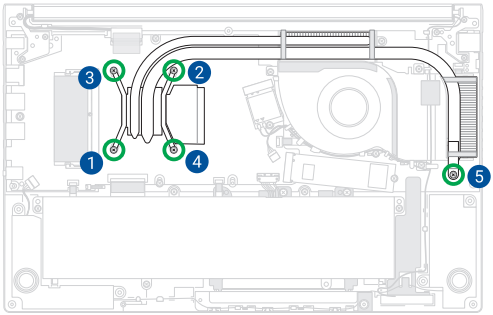
Removal

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.

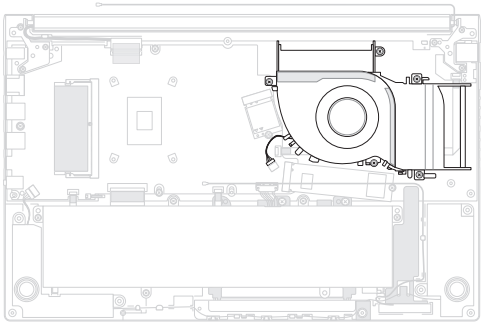


Installation

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.



Fan module



Before you begin

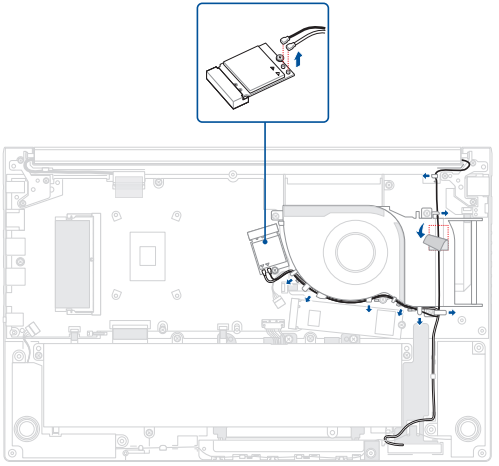
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
    - Heat sink

Screw list

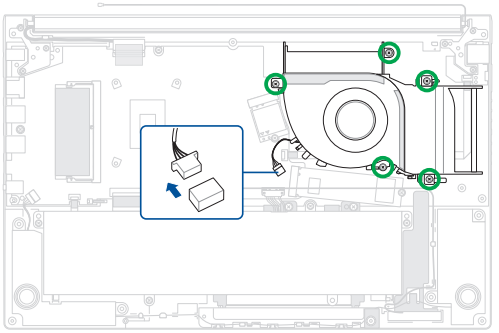
- M2.0 X 3.5L (5pcs)

Removal

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

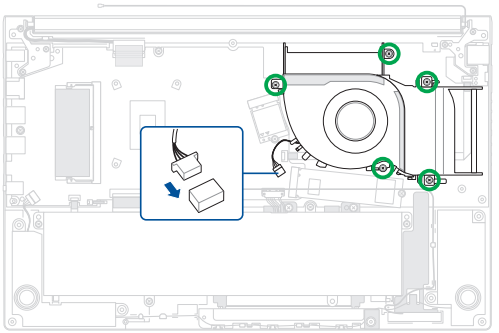


3. Disconnect the fan connector.
4. Remove the screw(s).
5. Remove the fan, then remove the fan duct.



Installation

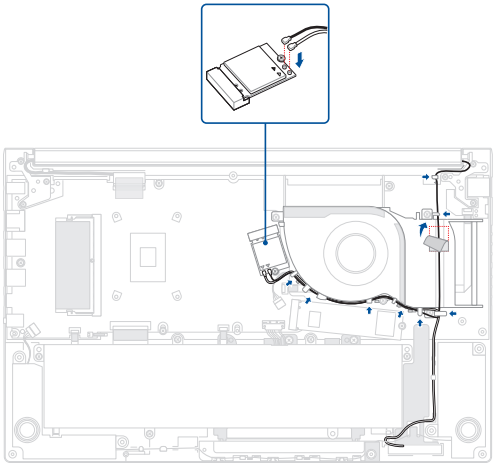
1. Install the fan duct, then install the fan.
2. Secure the fan and fan duct using the screw(s) you removed earlier.
3. Reconnect the fan connector.



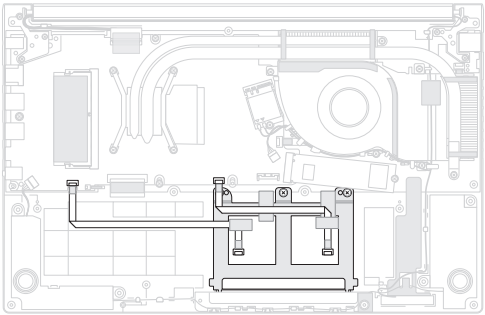
4. Route the antenna cable(s) through the cable guide(s), then reconnect the antenna cable(s) and attach the tape.

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.

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



Touchpad



Before you begin

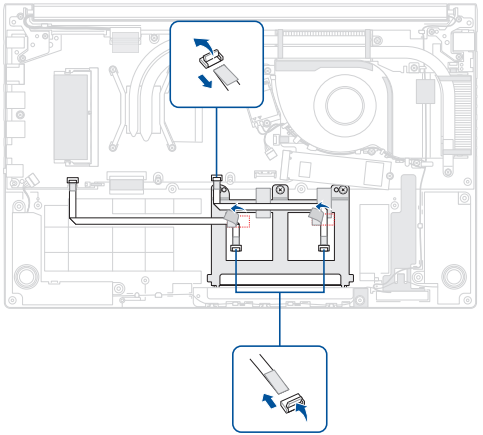
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
   - Battery

Screw list

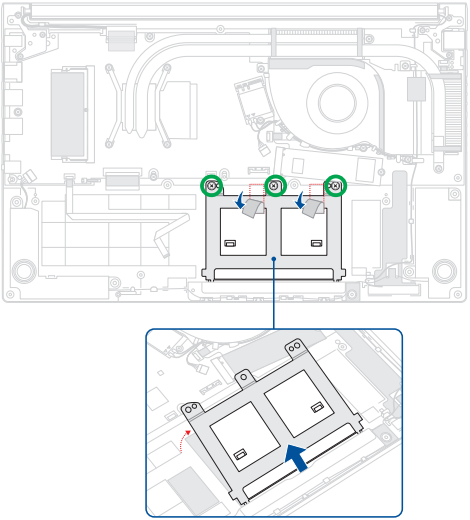
● ⊕ M2.0 X 2.0L (3pcs)

Removal

1. Remove the tape, then disconnect the cable(s).

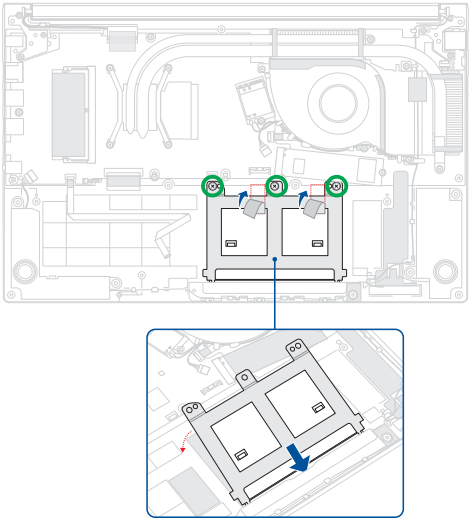


2. Remove the tape.
3. Remove the screw(s), then remove the touchpad.

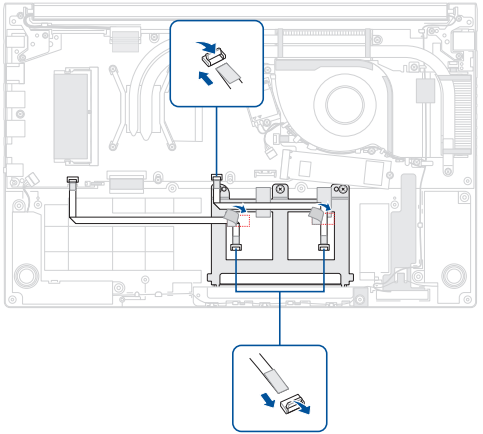


Installation

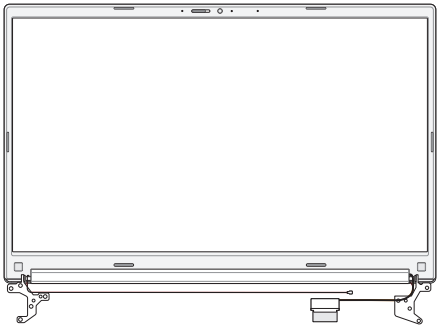
1. Align and install the touchpad, then secure the touchpad using the screw(s) you removed earlier.
2. Reattach the tape as shown.



3. Reconnect the cable(s), then attach the tape.
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.

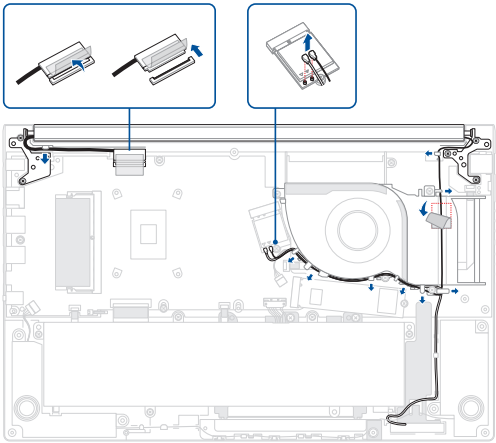
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
   - Heat sink

Screw list

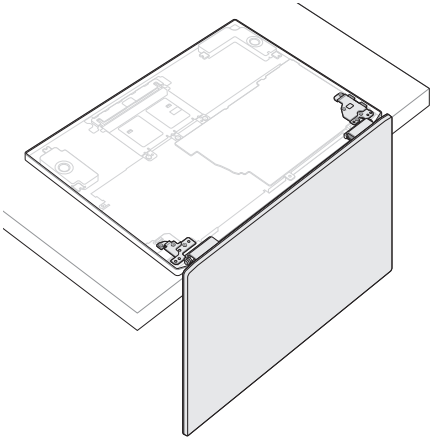
- M2.5 X 4.5L (6pcs)

Removal

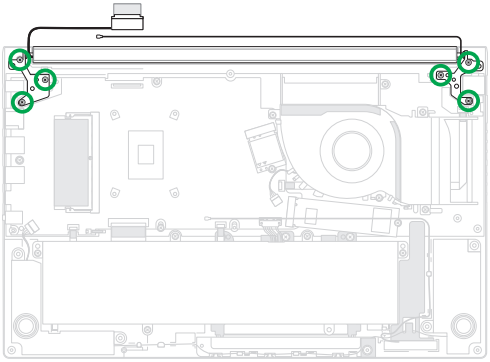
1. Disconnect the eDP cable, then remove the cable from the cable guide.
2. Remove the tape from the antenna cable, then disconnect the cable(s) and remove the cable(s) from the cable guide(s).



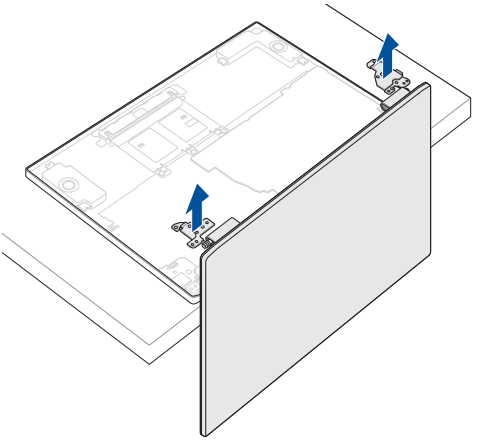
3. Place your device with the display panel hanging over the edge of the workspace as shown in the illustration below.



4. Remove the screw(s).

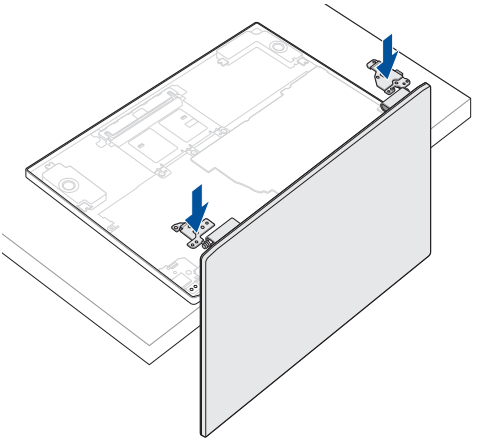


5. Remove the display panel module.

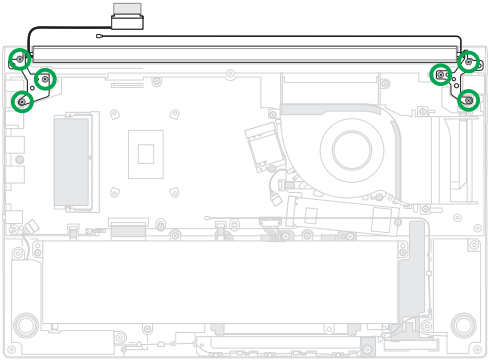


Installation

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. Close the display panel and place your device on a clean and stable surface.



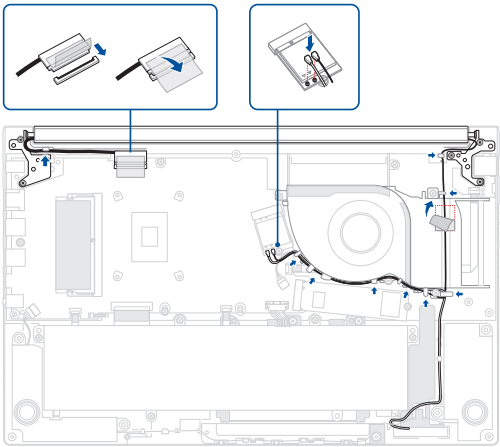
4. Route the eDP cable through the cable guide and reconnect the cable.

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.

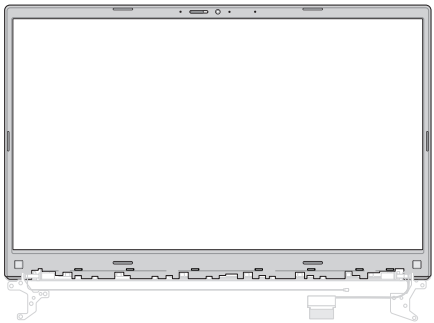
5. Route the antenna cable(s) through the cable guide(s), then reconnect the cable(s) and attach the tape.

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.

6. 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.

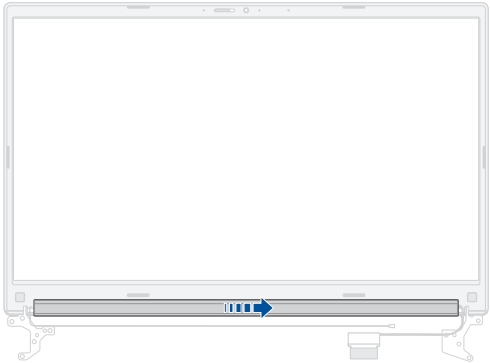
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
   - Heat sink
   - Display panel module

Screw list

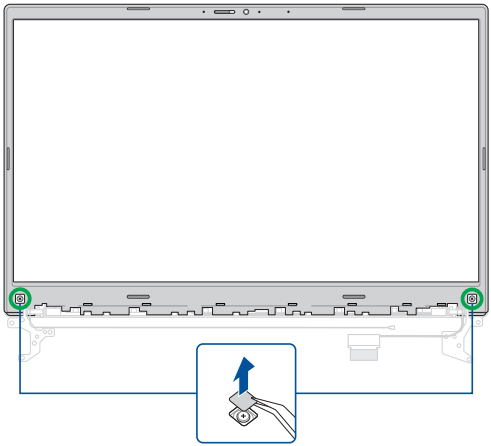
- M2.5 X 3.5L (2pcs)

Removal

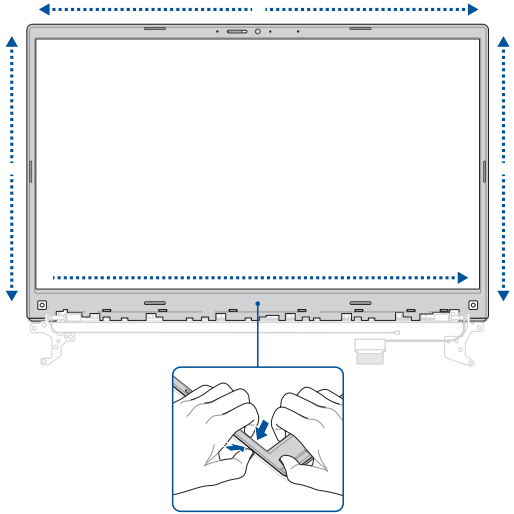
1. Remove the hinge cap as shown.



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



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

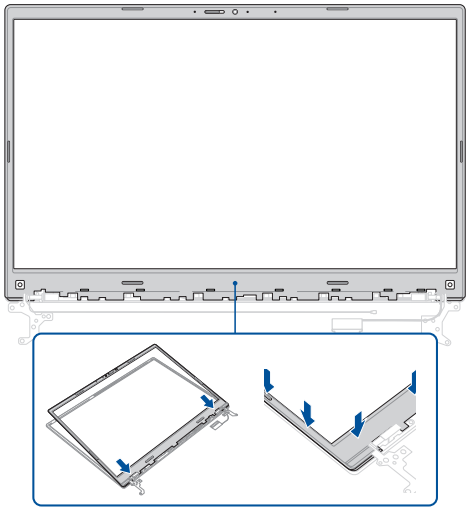


Installation

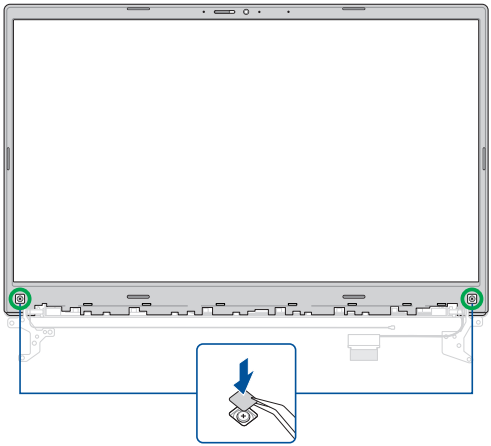
1. Remove the release liner(s) from the tape on the bezel.

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

2. Align and install the bezel.



3. Secure the bezel using the screw(s) you removed earlier, then install the screw cover(s).



4. Align and install the hinge cap.

5. 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:
   - Heat sink
   - Display panel module
   - Display bezel

Screw list

- M2.5 X 3.0L (6pcs)

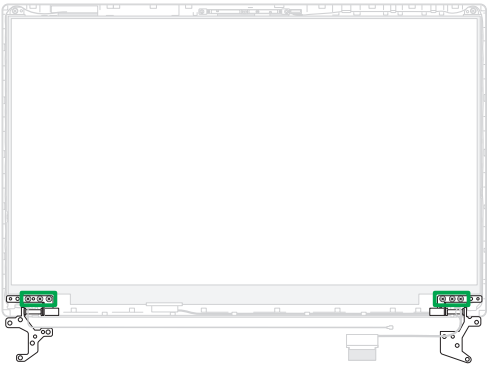
Removal

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.

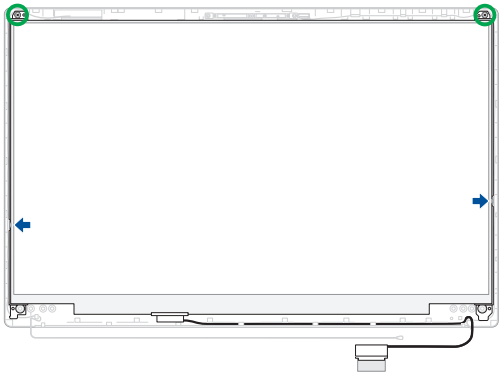
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
   - Heat sink
   - Display panel module
   - Display bezel
   - Display hinges

Screw list

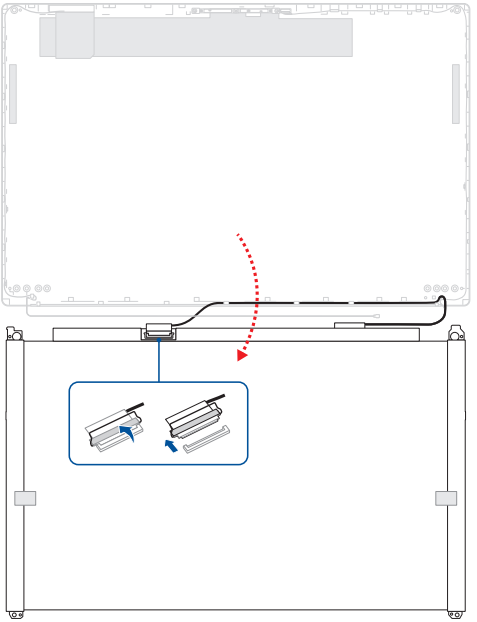
- M2.0 X 2.5L (2pcs)

Removal

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



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

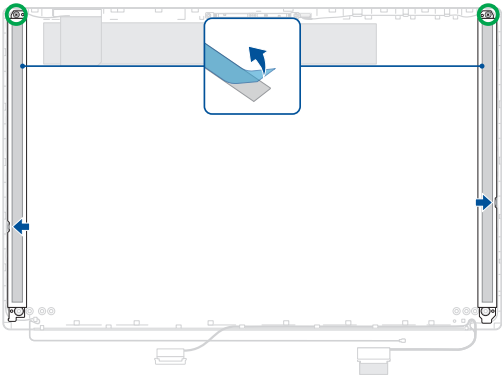


Installation

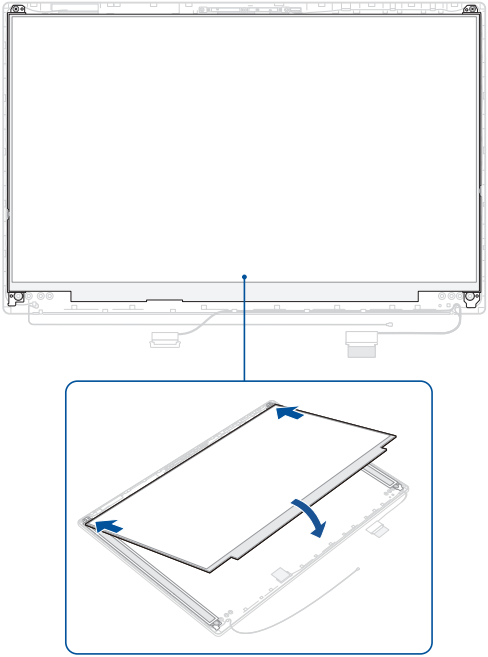
1. Place the top cover in the orientation shown in the illustration below.
2. Align and install the display brackets on the top cover, then secure the brackets using the screw(s) you removed earlier.

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

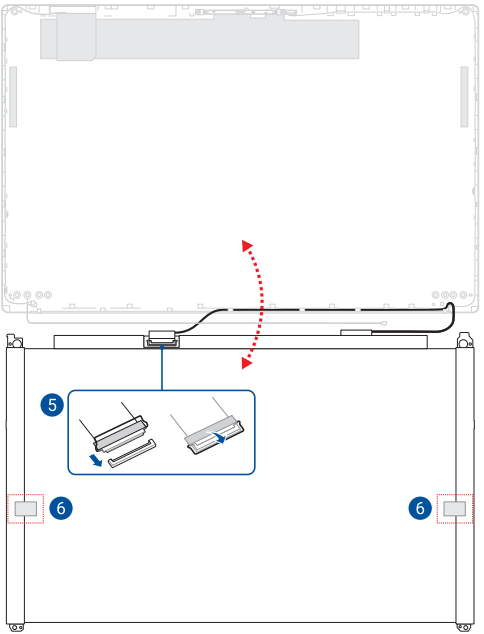
3. Remove the release liner(s) from the tape on the display brackets.



4. Align and install the display panel.



5. Lift the display panel from the top cover, then reconnect the cable to the rear side of the display panel.
6. Affix the tape to the indicated area(s) as shown.
7. Align and install the display panel.
8. Install the components you removed in the *Before you begin* section.



Camera module

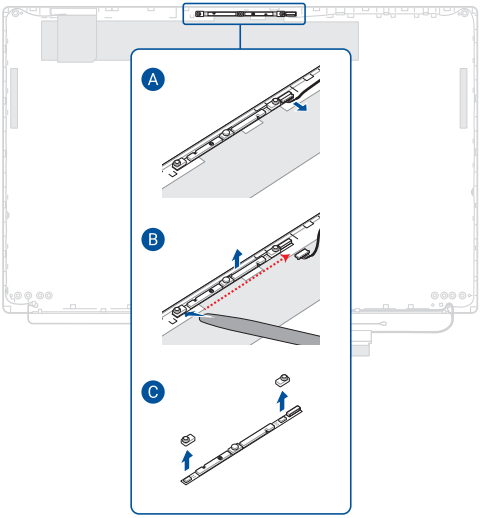
Before you begin

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:
    - Heat sink
    - Display panel module
    - Display bezel
    - Display hinges
    - Display panel

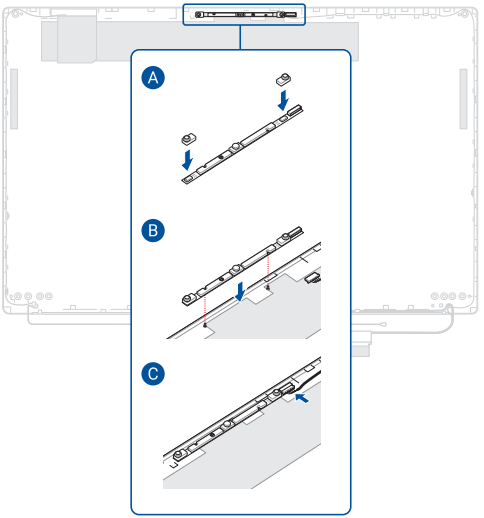
Removal

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

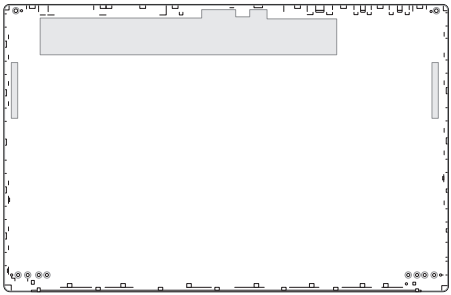


Installation

1. Attach the rubber caps 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



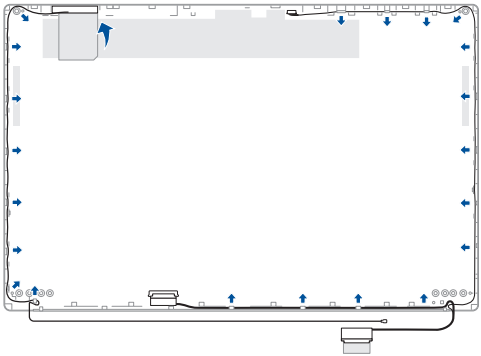
Before you begin

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

Removal

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

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

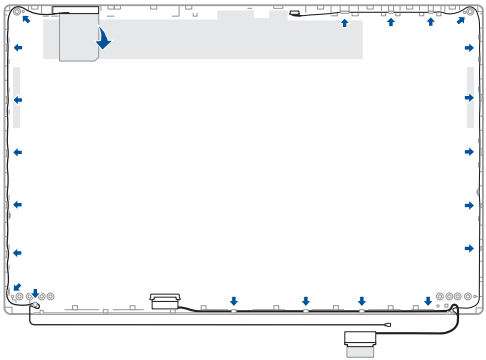


Installation

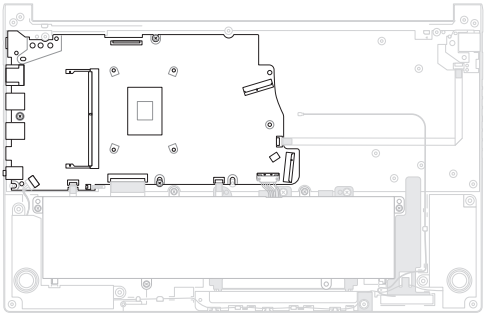
1. Install the cable(s) and route the cable(s) through the cable guide(s).

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.



Motherboard



Before you begin

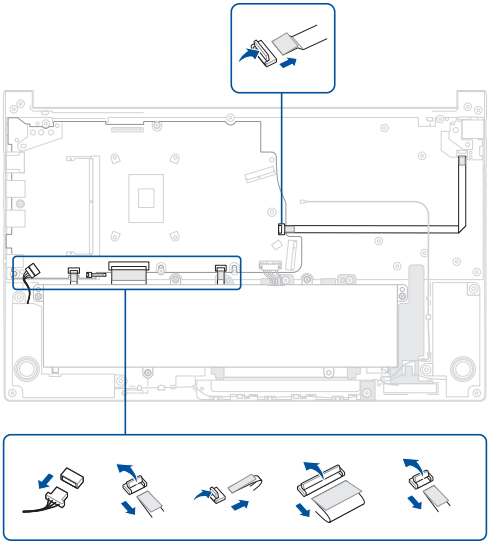
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
   - M.2 SSD module
   - RAM module
   - WLAN module
   - Heat sink
   - Fan module
   - Display panel module

Screw list

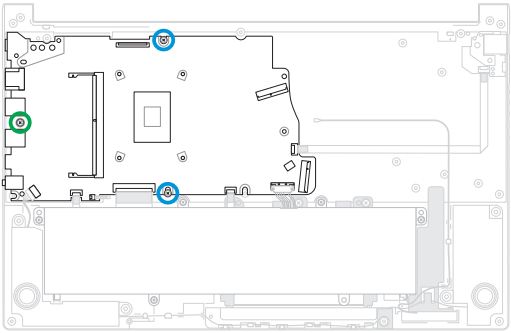
- M2.0 X 3.5L (1pc)
- M2.0 X 2.0L (2pcs)

Removal

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

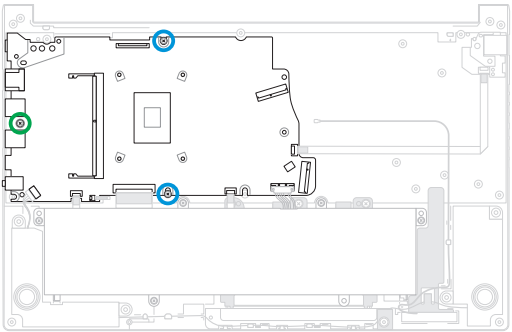


2. Remove the screw(s), then remove the motherboard.



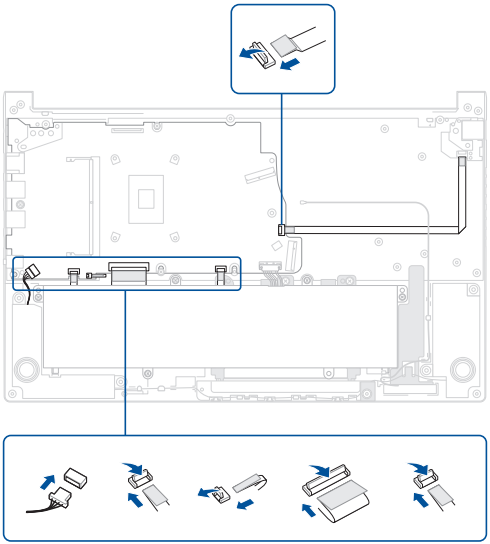
Installation

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

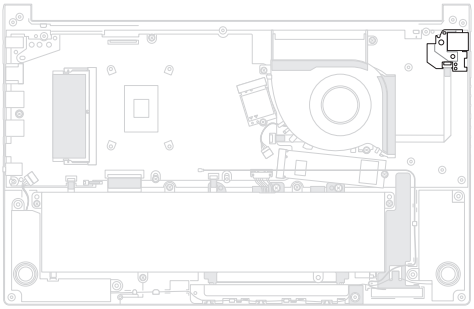


2. Reconnect the cable(s) as shown in the illustration below.

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



I/O board



Before you begin

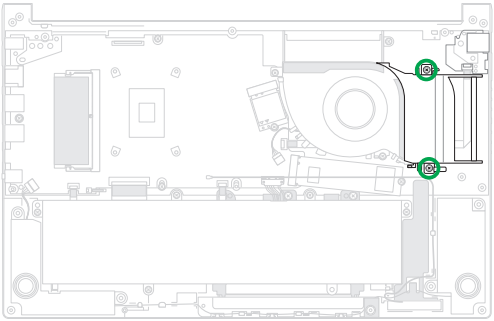
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
   - Heat sink
   - Display panel module

Screw list

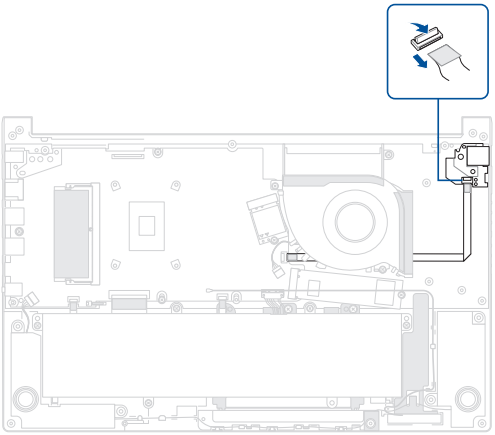
● ⊕ M2.0 X 3.2L (2pcs)

Removal

1. Remove the screw(s), then remove the fan duct.

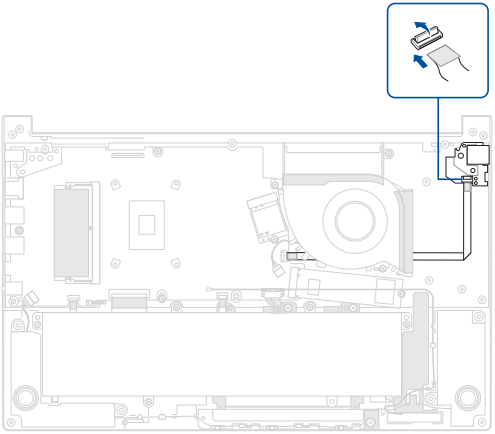


2. Disconnect the I/O board cable, then remove the I/O board.



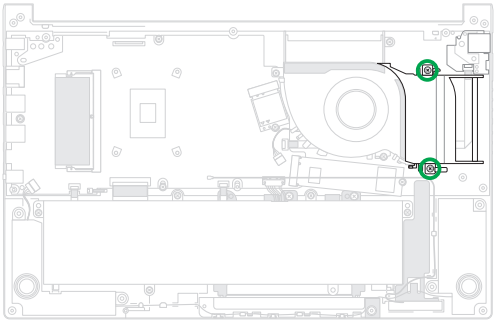
Installation

1. Install the I/O board, then reconnect the I/O board cable.

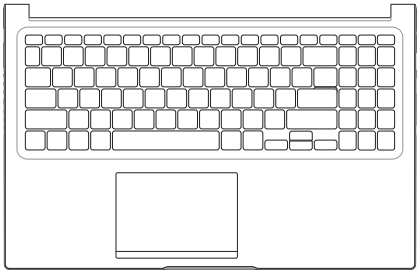


2. Install and secure the fan duct using the screw(s) you removed earlier.

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



Keyboard module



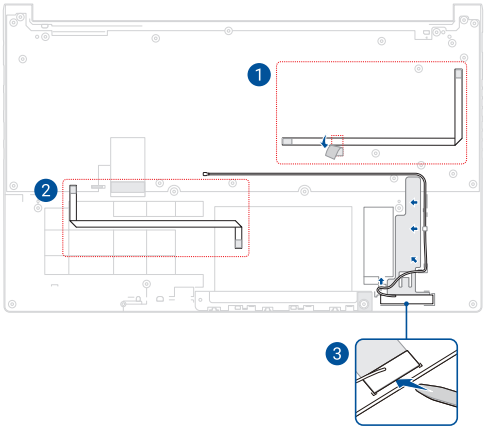
Before you begin

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
    - Heat sink
    - Fan module
    - Touchpad
    - Display panel module
    - Motherboard
    - I/O board

Removal

1. Remove the tape, then remove the I/O board cable.
2. Remove the fingerprint sensor cable.
3. Remove the antenna cable as shown in the illustration below.

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



Installation

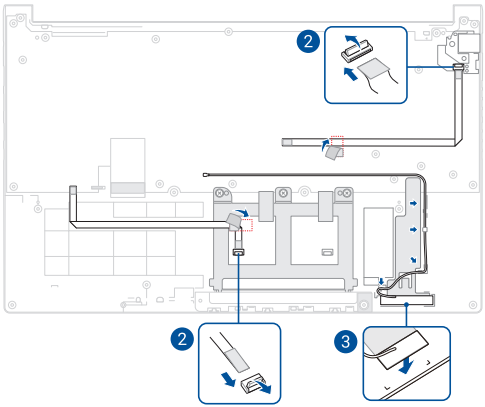
1. Install the I/O board and touchpad.

> **NOTE:** Refer to the corresponding chapters when performing the procedures.

2. Reconnect the I/O board cable and fingerprint sensor cable, then reattach the tape.
3. Install the antenna cable, then 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.

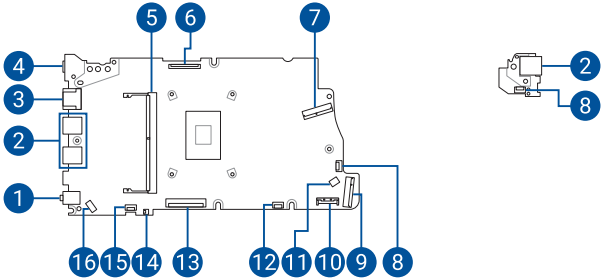
4. Install the components you removed in the *Before you begin* section.



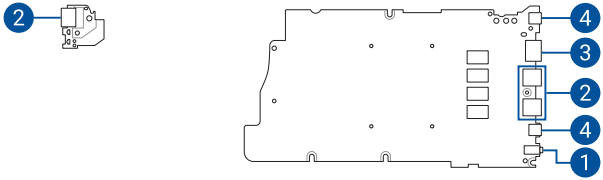
Appendices

Wiring and connection diagrams

Top View



Bottom View



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