

E24340

First Edition / June 2025



G SERIES

GAMING NOTEBOOK PC
SERVICE MANUAL

MORE INFO



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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

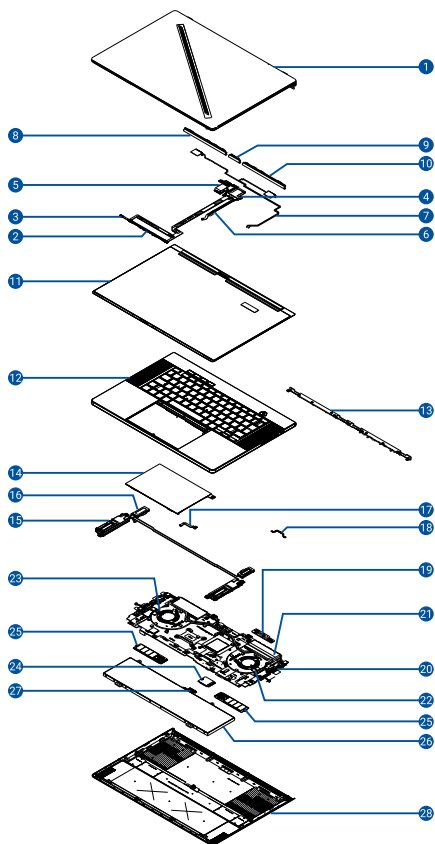
Diagnostic tools

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/.

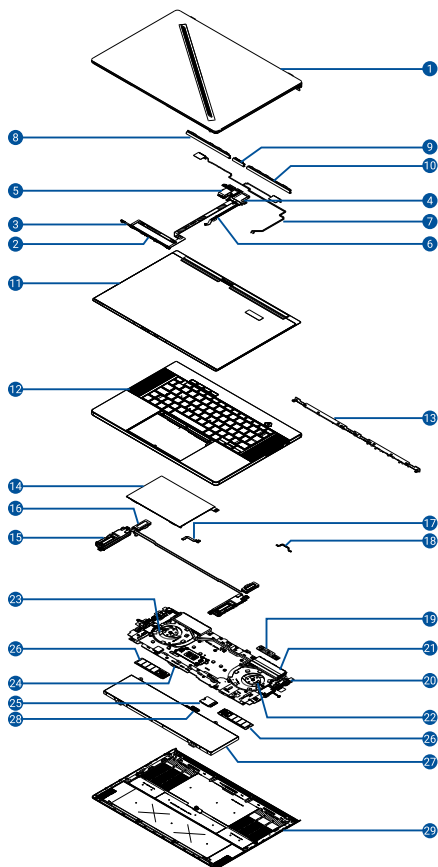
Major components

Models with a vapor chamber heat sink



- | | |
|------------------------|------------------------------|
| 1. Top cover | 15. Woofer speakers |
| 2. Camera module | 16. Tweeter speakers |
| 3. Camera cable | 17. Touchpad cable |
| 4. LCD CCD light cable | 18. Power button board cable |
| 5. eDP cable | 19. Power button board |
| 6. LCD light bar cable | 20. Motherboard |
| 7. Antenna cables | 21. Heat sink |
| 8. Hinge cap (left) | 22. GPU fan |
| 9. Hinge cap (middle) | 23. CPU fan |
| 10. Hinge cap (right) | 24. WLAN module |
| 11. Display panel | 25. M.2 SSD module |
| 12. Keyboard module | 26. Battery |
| 13. Thermal cover | 27. Battery cable |
| 14. Touchpad module | 28. Bottom cover |

Models with a heat pipe heat sink



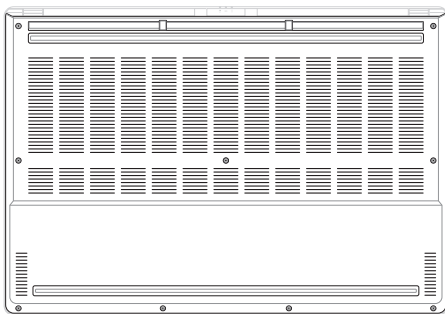
- | | |
|------------------------|------------------------------|
| 1. Top cover | 16. Tweeter speakers |
| 2. Camera module | 17. Touchpad cable |
| 3. Camera cable | 18. Power button board cable |
| 4. LCD CCD light cable | 19. Power button board |
| 5. eDP cable | 20. Motherboard |
| 6. LCD light bar cable | 21. Heat sink |
| 7. Antenna cables | 22. GPU fan |
| 8. Hinge cap (left) | 23. CPU fan |
| 9. Hinge cap (middle) | 24. Support fan |
| 10. Hinge cap (right) | 25. WLAN module |
| 11. Display panel | 26. M.2 SSD module |
| 12. Keyboard module | 27. Battery |
| 13. Thermal cover | 28. Battery cable |
| 14. Touchpad module | 29. Bottom cover |
| 15. Woofer speakers | |

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

Chapter 2:

Service Procedures

Bottom cover



Before you begin

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

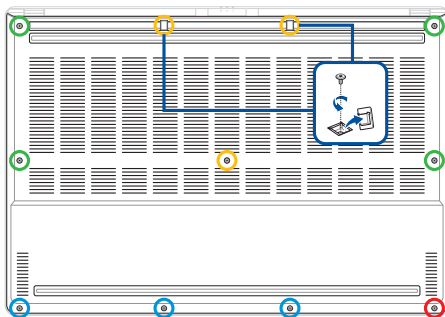
Screw list

- * M2.0 X 9.5L (4pcs)
- * M2.0 X 7.0L (3pcs)
- * M2.0 X 4.5L (3pcs)
- * M2.0 X 6.0L (1pc Pop-open Screw)

Removal

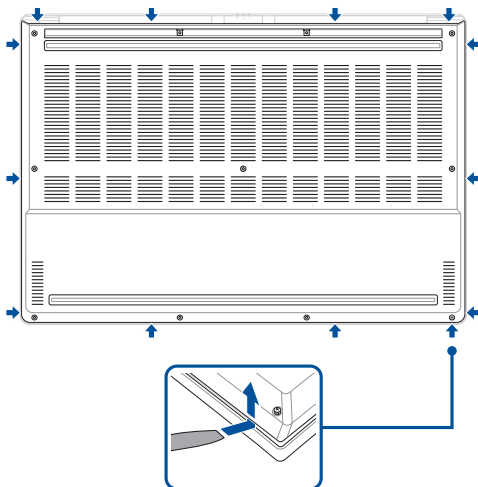
IMPORTANT! System power will be cut off automatically upon removal of the bottom cover. To restore power, reattach the bottom cover securely and connect the AC power adapter to your Notebook PC after the servicing is complete.

1. Remove the rubber cover(s) to expose the screw(s) underneath.
2. Remove the screw(s) from the bottom cover.
3. Loosen the Pop-open Screw without removing the screw from the cover.



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

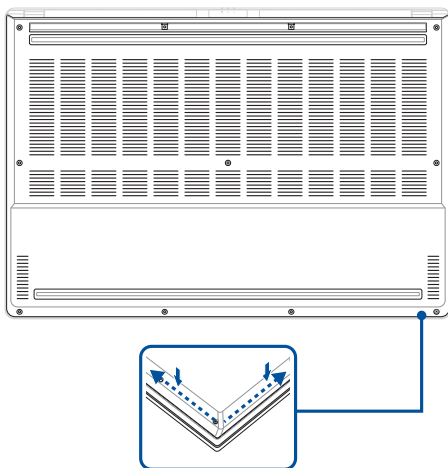
IMPORTANT! Avoid sliding the plastic blade along the side of your device or air vents to prevent damage.



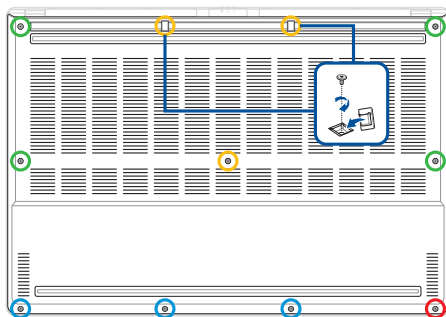
Installation

IMPORTANT! System power will be cut off automatically upon removal of the bottom cover. To restore power, reattach the bottom cover securely and connect the AC power adapter to your Notebook PC after the servicing is complete.

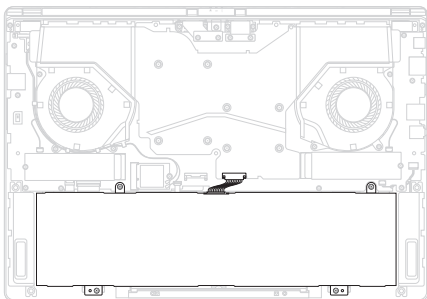
1. Install the bottom cover.
2. Gently press down on the bottom cover until it clicks into place.



3. Secure the bottom cover using the screw(s) you removed earlier.
4. Tighten the Pop-open Screw.
5. Align and put the rubber cover(s) in place.



Battery



Before you begin

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

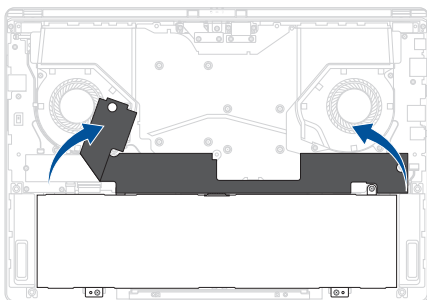
Screw list

- ⊕ M2.0 X 4.5L (4pcs)

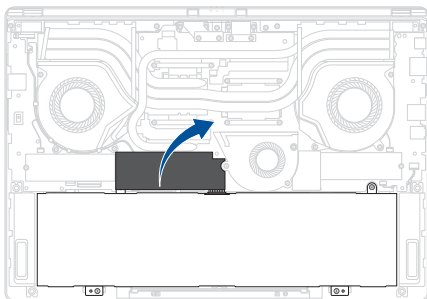
Removal

1. Remove the polyester film.

GU605CX



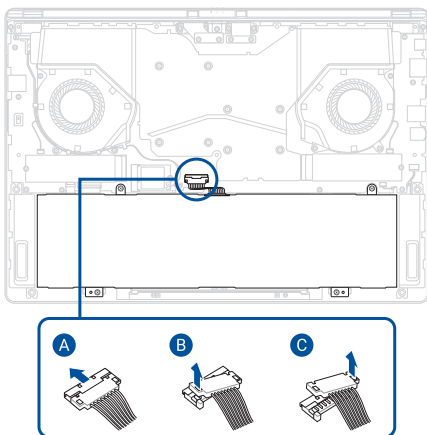
GU605CP



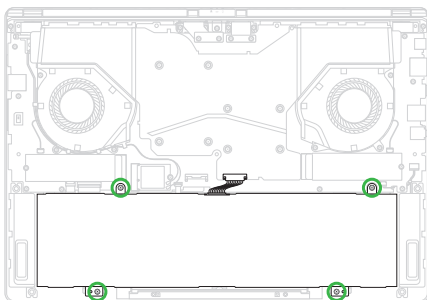
2. Disconnect the battery power cable.

IMPORTANT!

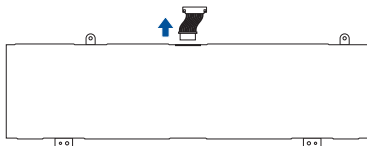
- Disconnect the battery power cable by lifting the side with the red wires first.
 - Serious risk of fire or explosion may occur if the battery is punctured. If you are uncertain about proceeding, stop and contact an authorized service center for assistance.
-



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

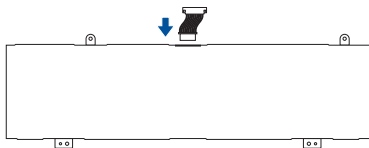


5. Remove the battery power cable.

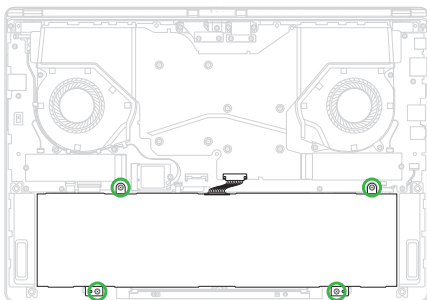


Installation

1. Connect the battery power cable to the battery.

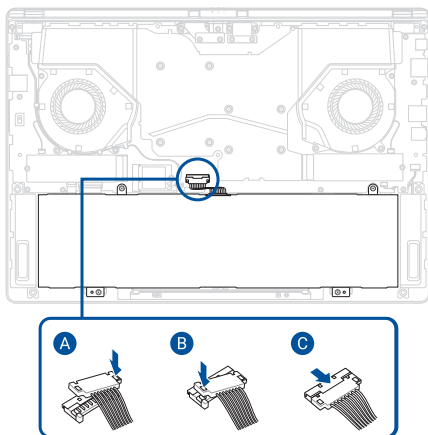


2. Install the battery.
3. Secure the battery using the screw(s) you removed earlier.



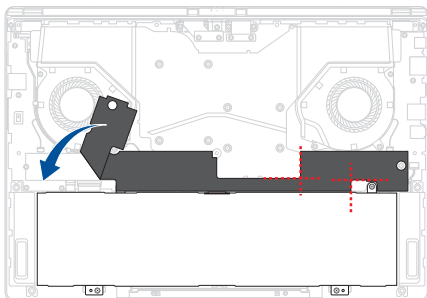
4. Reconnect the battery power cable.

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

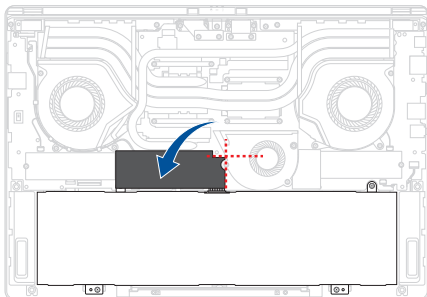


5. Align and attach the polyester film.
6. Install the components you removed in the *Before you begin* section.

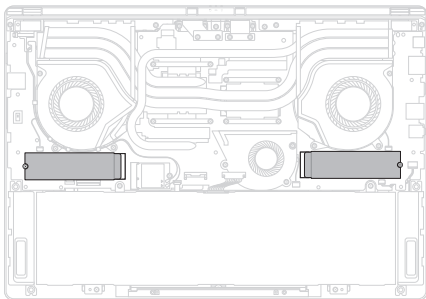
GU605CX



GU605CP



M.2 SSD module



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.

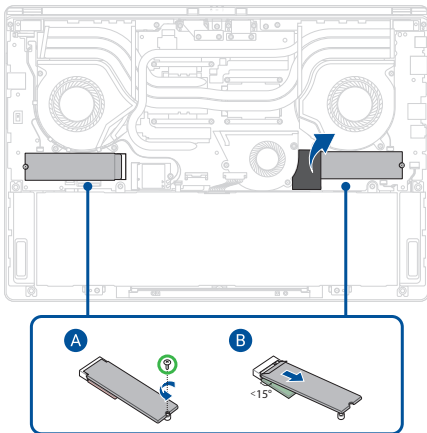
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.

Screw list

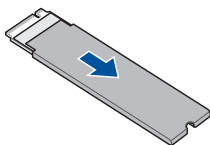
- ⊕ M2.0 X 2.0L (2pcs)

Removal

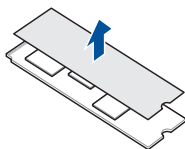
1. Remove the tape (if available) and remove the screw(s).
2. Remove the M.2 SSD module(s) from the motherboard.



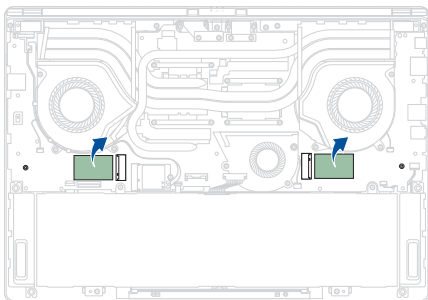
3. Remove the aluminum foil sleeve.



4. Remove the absorber sheet(s) from both sides of the M.2 SSD module(s).

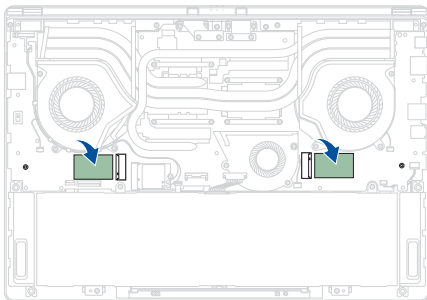


5. Remove the thermal pad(s) from the motherboard.

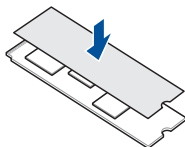


Installation

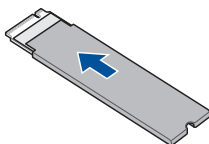
1. Install the thermal pad(s) on the motherboard.



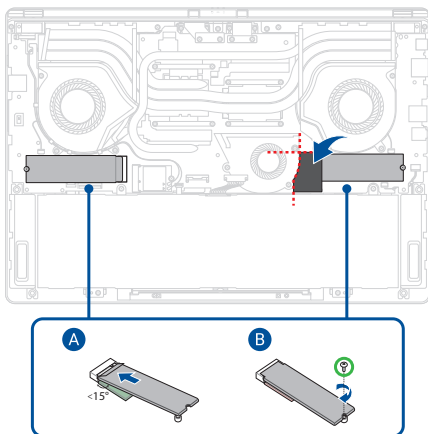
2. Attach the absorber sheet(s) to both sides of the M.2 SSD module(s).



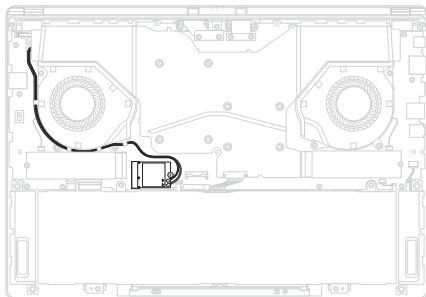
3. Insert the M.2 SSD module(s) into the aluminum foil sleeve.



4. Align and insert the M.2 SSD module(s) into the M.2 connector(s), and secure the M.2 SSD module(s) to the motherboard using the screw(s) you removed earlier.
5. Align and reattach the tape (if available).
6. Install the components you removed in the *Before you begin* section.



WLAN module



Before you begin

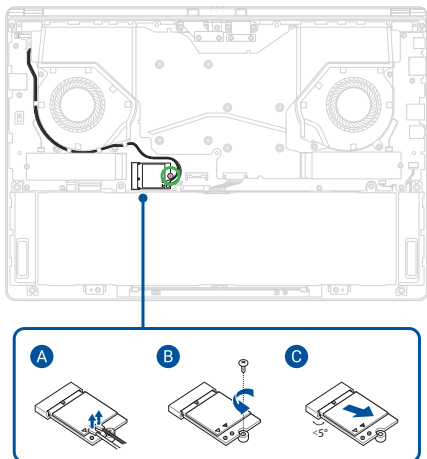
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.

Screw list

- ⊕ M2.0 X 2.0L (1pc)

Removal

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

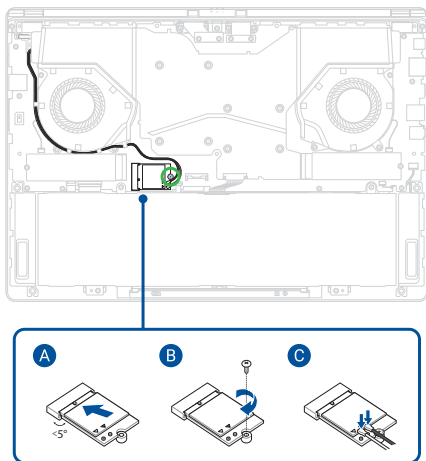


Installation

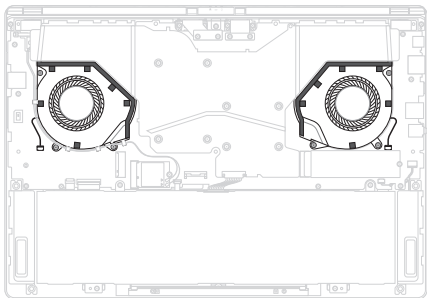
1. Install the WLAN module, then secure the WLAN module using the screw you removed earlier and reconnect the antenna cable(s).
2. Route the cable(s) through the cable guide(s).

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.

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



Fan module (vapor chamber heat sink models)



Before you begin

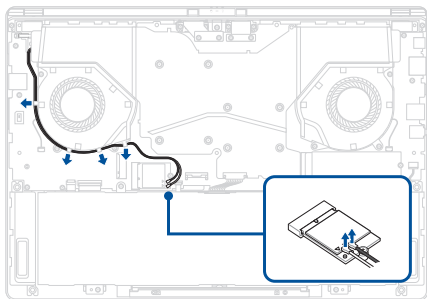
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
 - M.2 SSD module

Screw list

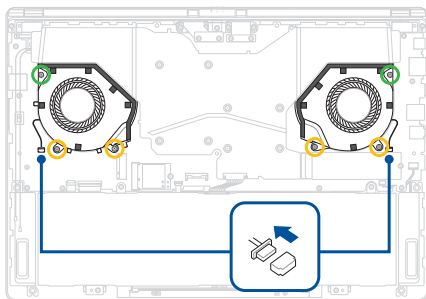
- ⊕ M2.0 X 4.5L (2pcs)
- ⊕ M2.0 X 4.0L (4pcs)

Removal

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

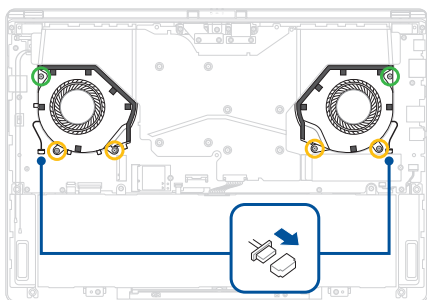


2. Remove the screw(s), then disconnect the fan connector(s).
3. Tilt the fan(s) upward and remove the fan(s) sideways.



Installation

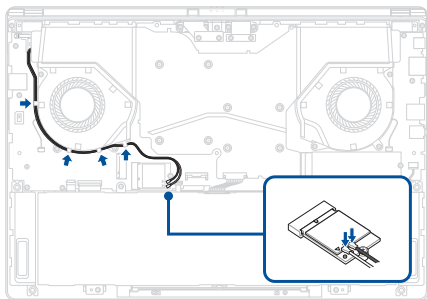
1. Tilt the fan(s) downward, then align and install the fan(s) sideways.
2. Secure the fan(s) using the screw(s) you removed earlier.
3. Reconnect the fan connector.



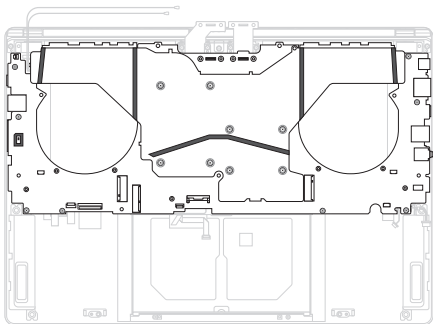
4. Reconnect the antenna cable(s), then route the cable(s) through the cable guide(s).

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.

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



Vapor chamber heat sink and motherboard (on selected models)



Before you begin

WARNING! The heat sink contains liquid metal and should only be removed by authorized service personnel. Significant damage may occur to motherboard components if the heat sink is improperly removed.

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

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

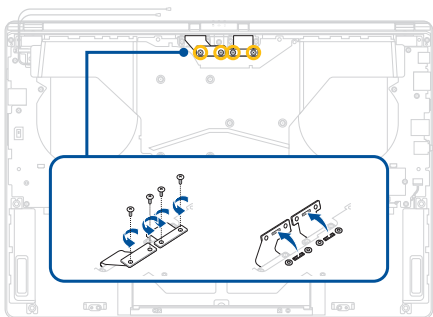
3. Remove the following components:
- Battery
 - M.2 SSD module
 - WLAN module
 - Fan module (vapor chamber heat sink models)

Screw list

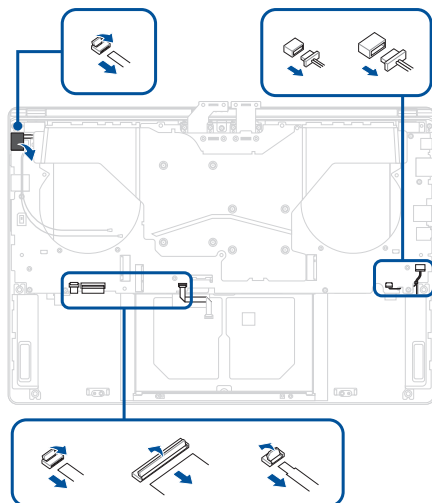
- ⊕ M2.0 X 4.0L (8pcs)
- ⊕ M2.0 X 2.0L (4pcs)

Removal

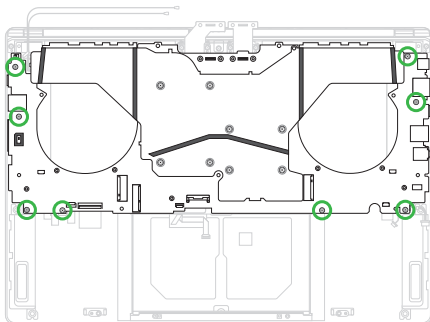
1. Remove the screw(s), then release the cable(s).



2. Remove the tape, then disconnect the cable(s) from the motherboard as shown in the illustration below.

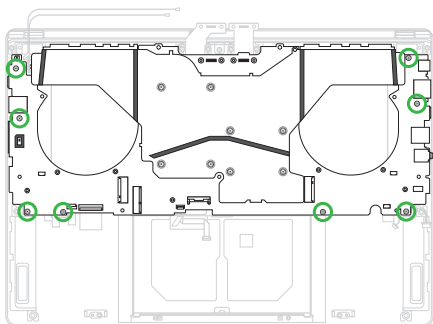


3. Remove the screw(s) from the motherboard.
4. Slightly lift the left side of the motherboard, then remove the motherboard with the heat sink installed on top.

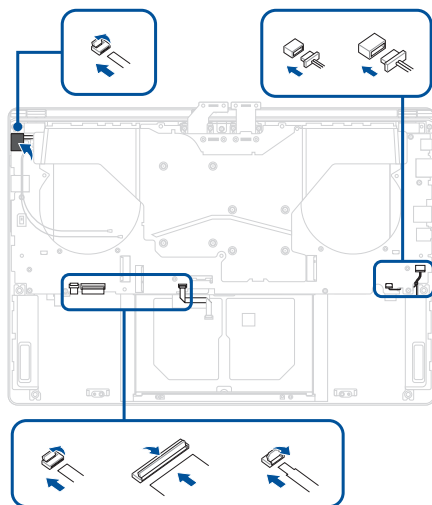


Installation

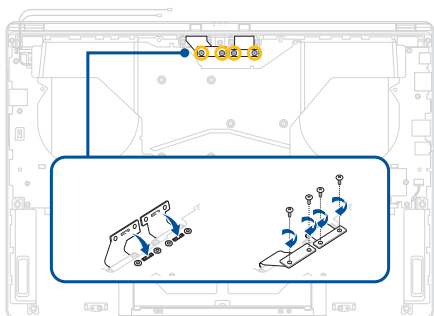
1. Tilt up the left side of the motherboard, then align the right side of the motherboard with the I/O ports on the right side to install the motherboard with the heat sink installed on top.
2. Secure the motherboard using the screw(s) you removed earlier.



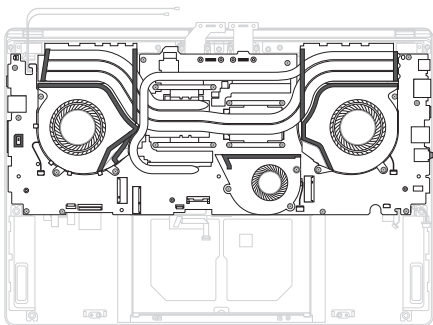
3. Reconnect the cable(s) as shown in the illustration below, then reattach the tape.



4. Secure the cable(s) using the screw(s) you removed earlier.
5. Install the components you removed in the *Before you begin* section.



Fan module, heat pipe heat sink and motherboard (on selected models)



Before you begin

WARNING! The heat sink contains liquid metal and should only be removed by authorized service personnel. Significant damage may occur to motherboard components if the heat sink is improperly removed.

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

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

3. Remove the following components:

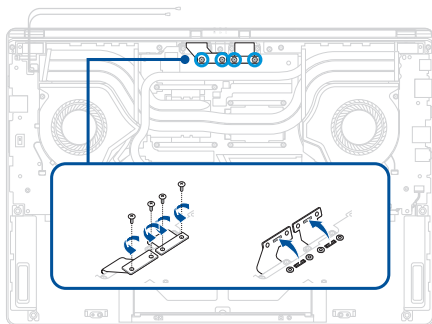
- Battery
- M.2 SSD module
- WLAN module

Screw list

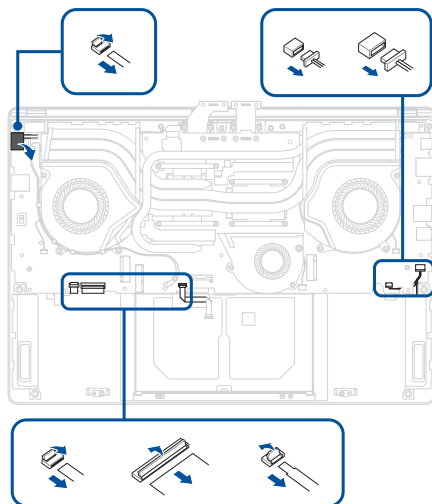
- ⊕ M2.0 X 4.5L (2pcs)
- ⊕ M2.0 X 4.0L (16pcs)
- ⊕ M2.0 X 2.0L (5pcs)

Removal

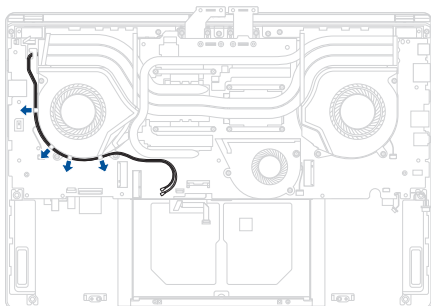
1. Remove the screw(s), then release the cable(s).



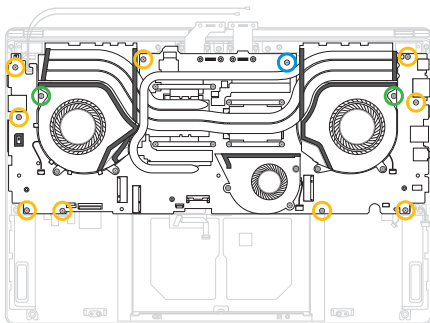
2. Remove the tape, then disconnect the cable(s) from the motherboard as shown in the illustration below.



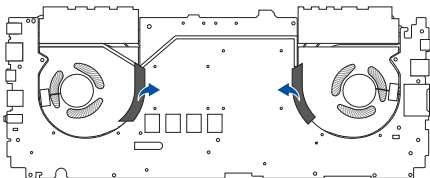
3. Remove the antenna cable(s) from the cable guide(s).



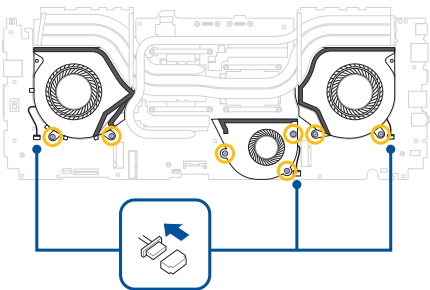
4. Remove the screw(s) from the motherboard.
5. Slightly lift the left side of the motherboard, then remove the motherboard with the fan modules and heat sink installed on top.



6. Turn over the motherboard, then remove the tape securing the fan module(s) to the motherboard.

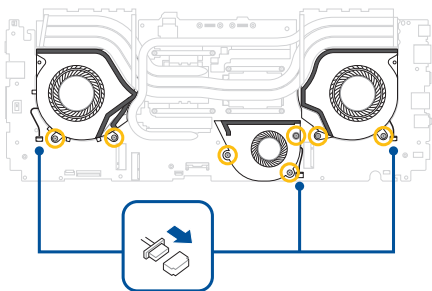


7. Turn over the motherboard again, then remove the screw(s) and disconnect the fan cable(s).
8. Remove the fan module(s).

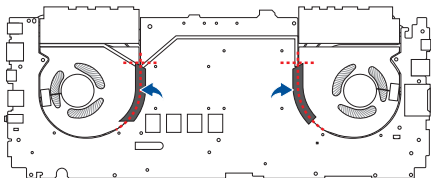


Installation

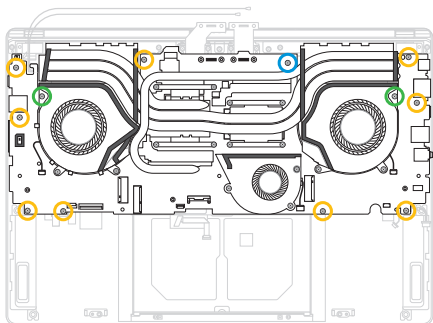
1. Align and install the fan module(s) to the motherboard.
2. Secure the motherboard using the screw(s) you removed earlier, then reconnect the fan cable(s).



3. Turn over the motherboard, then align and reattach the tape to secure the fan module(s) to the motherboard.

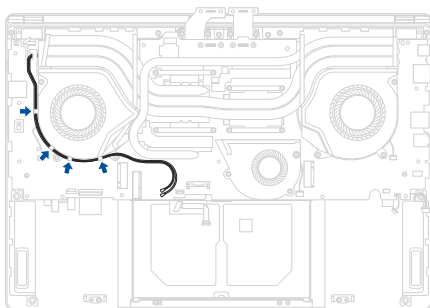


4. Tilt up the left side of the motherboard, then align the right side of the motherboard with the I/O ports on the right side to install the motherboard with the heat sink installed on top.
5. Turn over the motherboard again, secure the motherboard using the screw(s) you removed earlier.

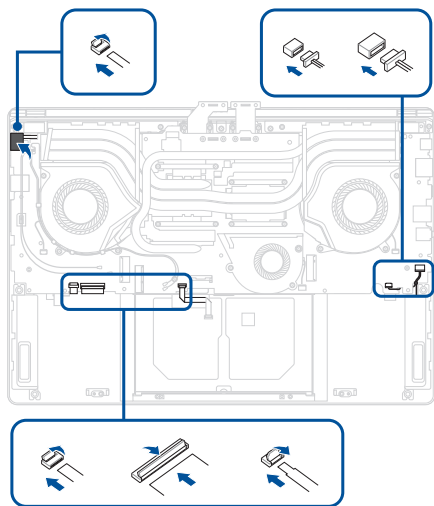


6. Route the antenna cable(s) through the cable guide(s).

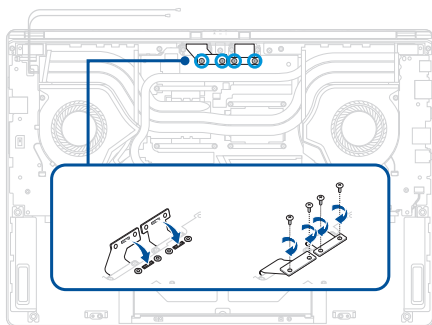
IMPORTANT! Damage may occur if cables are not properly routed through the cable guides. Confirm that all cables are routed through each of the indicated cable guides before proceeding.



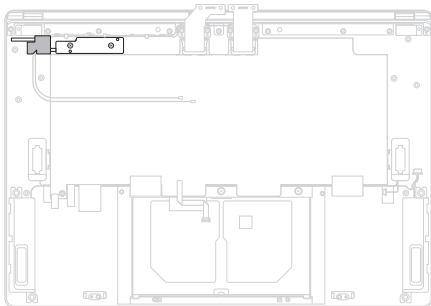
7. Reconnect the cable(s) to the motherboard as shown in the illustration below, then reattach the tape.



8. Secure the cable(s) using the screw(s) you removed earlier.
9. Install the components you removed in the *Before you begin* section.



Power button



Before you begin

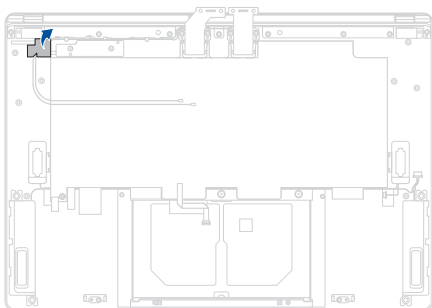
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
 - Battery
 - M.2 SSD module
 - WLAN module
 - Fan module (vapor chamber heat sink models)
 - Vapor chamber heat sink and motherboard (on selected models)
 - Fan module, heat pipe heat sink and motherboard (on selected models)

Screw list

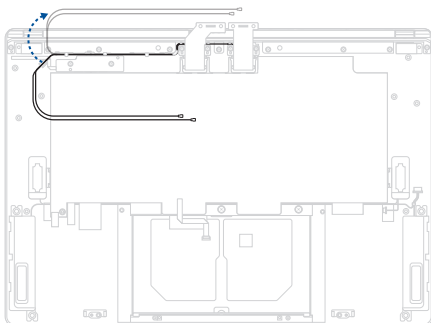
- ⊕ M2.0 X 2.0L (2pcs)

Removal

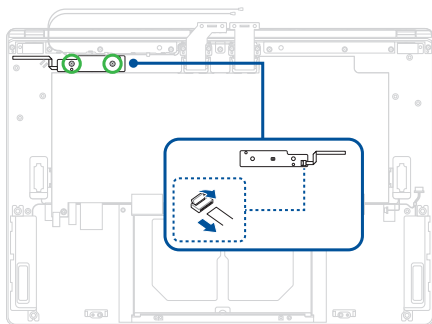
1. Remove the tape.



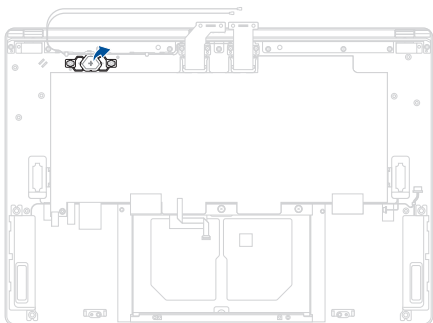
2. Remove the antenna cable(s) from the cable guide.



3. Remove the screw(s) from the power button board, then remove the power button board and reveal the power button.
4. Turn over the power button board, then disconnect the cable from the bottom of the board.

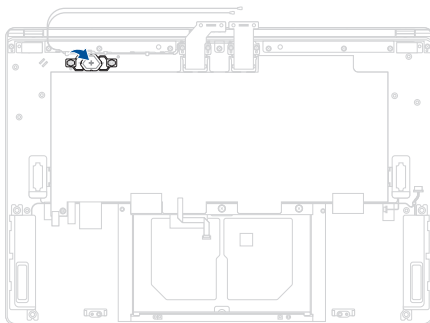


5. Remove the power button.

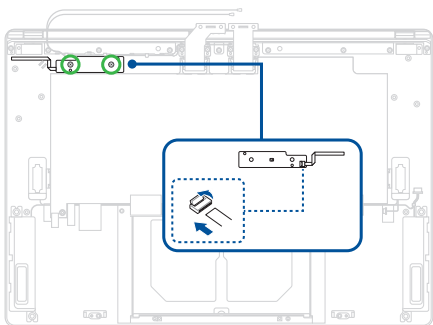


Installation

1. Install the power button.

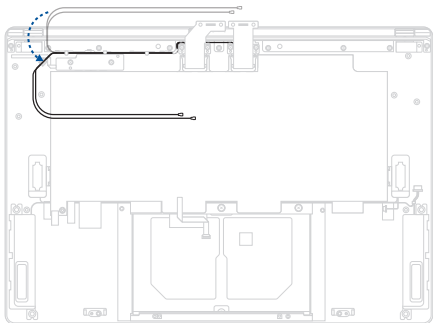


2. Reconnect the cable to the bottom of the board.
3. Turn over the power button board, then install the power button board.
4. Secure the power button board using the screw(s) you removed earlier.

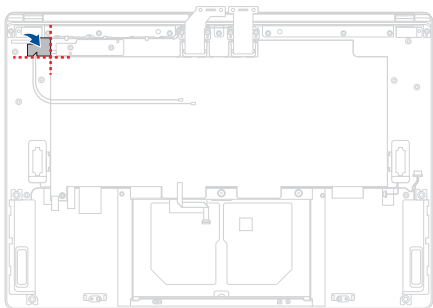


5. Route the antenna cable(s) through the cable guide.

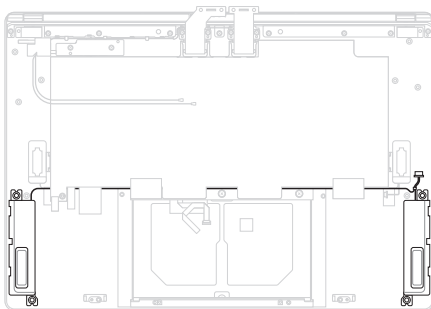
IMPORTANT! Damage may occur if cables are not properly routed through the cable guides. Confirm that all cables are routed through each of the indicated cable guides before proceeding.



6. Align and attach the tape.
7. Install the components you removed in the *Before you begin* section.



Woofer speakers

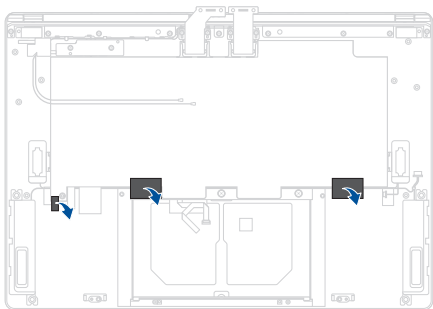


Before you begin

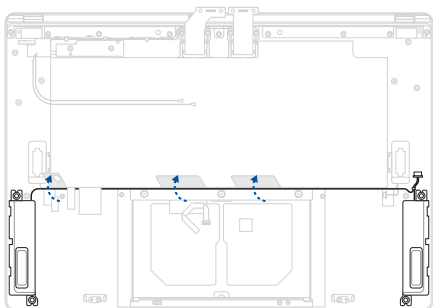
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
 - Battery
 - M.2 SSD module
 - WLAN module
 - Fan module (vapor chamber heat sink models)
 - Vapor chamber heat sink and motherboard (on selected models)
 - Fan module, heat pipe heat sink and motherboard (on selected models)

Removal

1. Remove the tape.



2. Partially peel off the lower part of the polyester film and remove the woofer speaker cable from the cable guide(s) as shown in the illustration below.
3. Remove the woofer speakers.

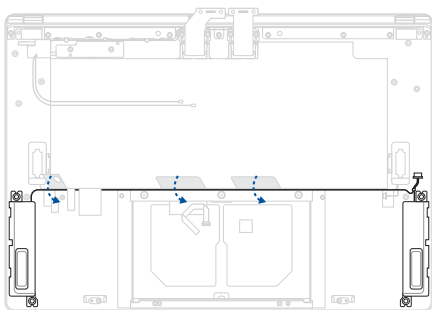


Installation

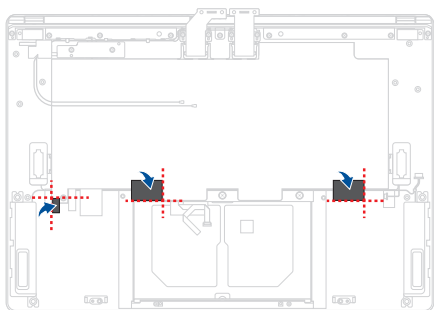
1. Install the woofer speakers.
2. Route the woofer speaker cable through the cable guide(s).

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.

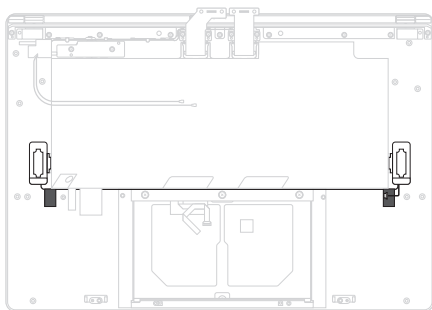
3. Reattach the lower part of the polyester film.



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



Tweeter speakers



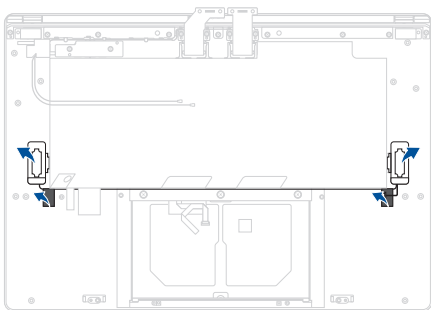
Before you begin

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
 - M.2 SSD module
 - WLAN module
 - Fan module (vapor chamber heat sink models)
 - Vapor chamber heat sink and motherboard (on selected models)

- Fan module, heat pipe heat sink and motherboard (on selected models)
- Woofer speakers

Removal

1. Remove the tape, then remove the tweeter speaker cable from the cable guide(s).
2. Remove the tweeter speakers.

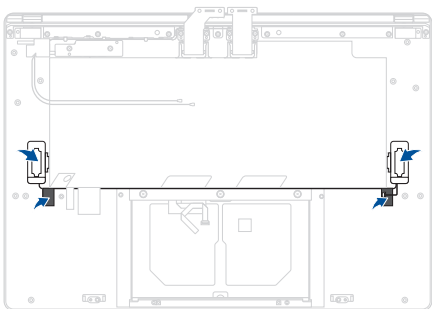


Installation

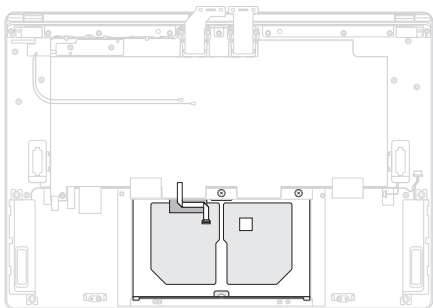
1. Install the tweeter speakers.
2. Route the tweeter speaker cable through the cable guide(s).

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



Touchpad



Before you begin

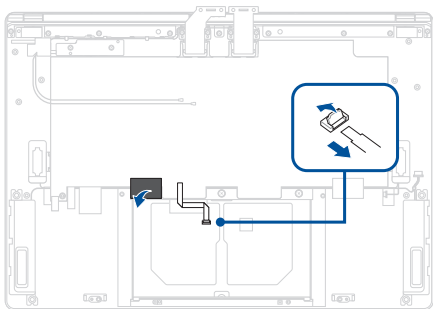
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the bottom cover and disconnect the battery power cable.
3. Remove the following components:
 - Battery
 - M.2 SSD module
 - WLAN module
 - Fan module (vapor chamber heat sink models)
 - Vapor chamber heat sink and motherboard (on selected models)
 - Fan module, heat pipe heat sink and motherboard (on selected models)

Screw list

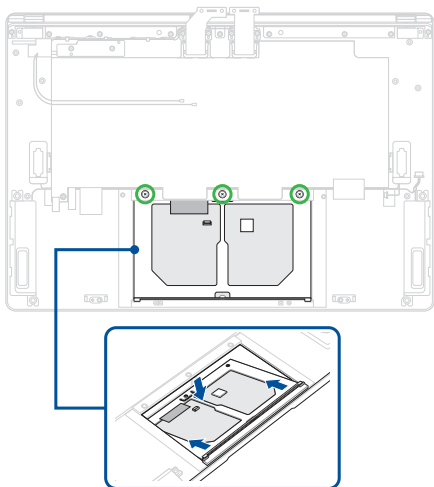
- ⊕ M2.0 X 2.0L (3pcs)

Removal

1. Disconnect and remove the touchpad FFC cable from the touchpad.
2. Remove the tape.

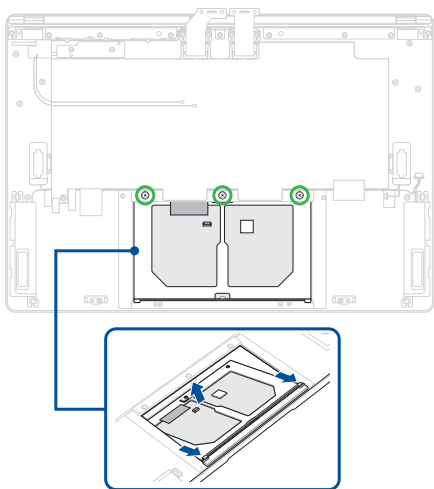


3. Remove the screw(s).
4. Remove the touchpad module.

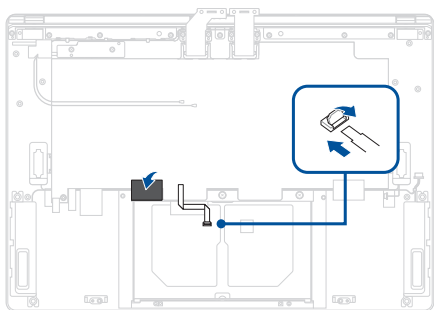


Installation

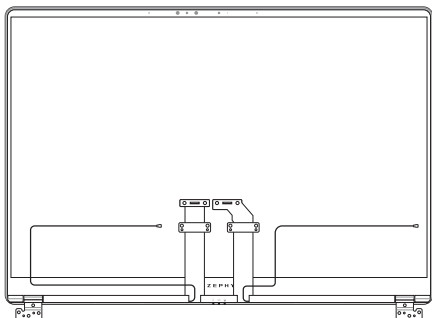
1. Align and install the touchpad as shown in the illustration below.
2. Secure the touchpad using the screw(s) you removed earlier.



3. Reconnect the cable.
4. Reattach the tape.
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:
 - Battery
 - M.2 SSD module
 - WLAN module
 - Fan module (vapor chamber heat sink models)

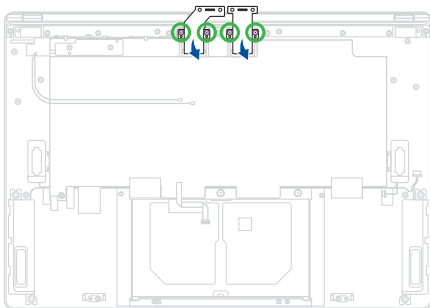
- Vapor chamber heat sink and motherboard (on selected models)
- Fan module, heat pipe heat sink and motherboard (on selected models)

Screw list

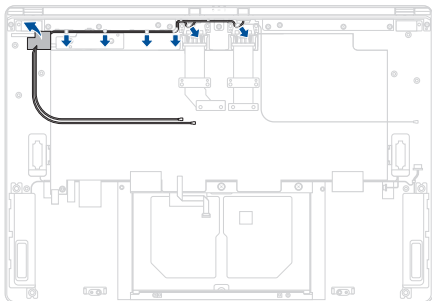
- ⊕ M2.0 X 4.0L (10pcs)
- ⊕ M2.0 X 2.0L (7pcs)
- ⊕ M1.6 X 2.0L (2pcs)

Removal

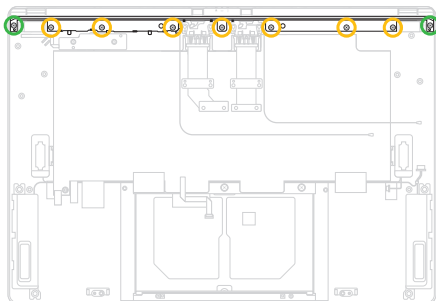
1. On the keyboard module, remove the screw(s) and pull down the FPC cable(s) to reveal the cable latch holder(s) as shown in the illustration below.



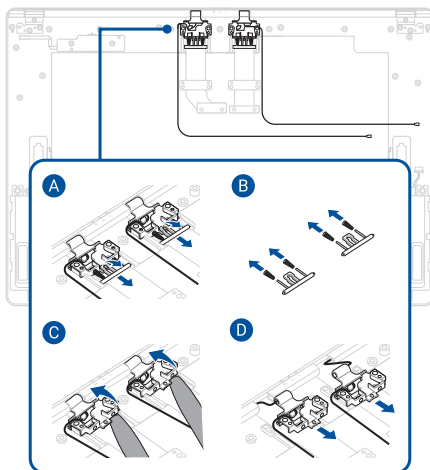
2. Remove the tape, then remove the cable(s) from the cable guide(s).



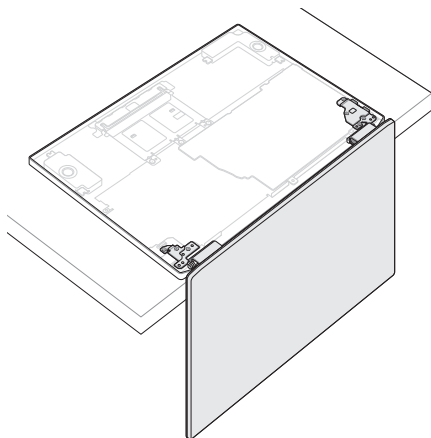
3. Remove the screw(s) and remove the thermal cover.



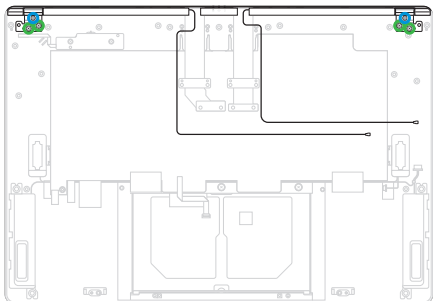
4. Make sure a hand of yours hovers over the cable latch holder(s) to prevent the spring(s) from popping out in the next step.
5. Use the plastic blade to carefully pry up the latches and remove the spring(s).
6. Pry up the latch holder(s) from the right side.
7. Remove the latch holder(s).



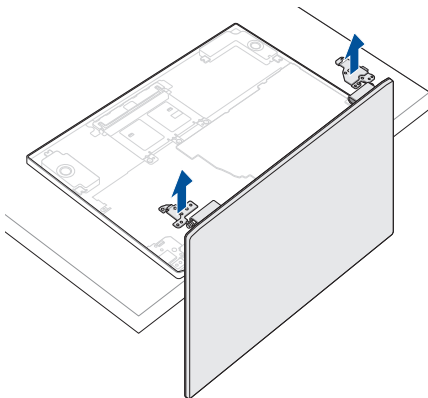
8. Place your device with the display panel hanging over the edge of the workspace as shown in the illustration below.



9. Remove the screw(s).

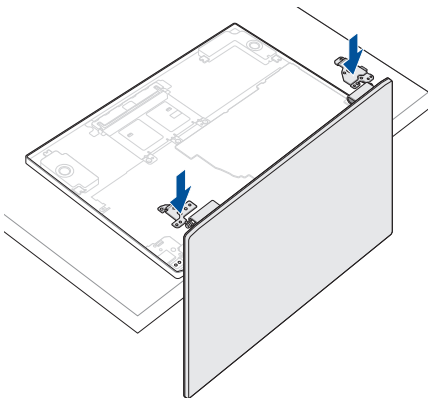


10. Remove the display panel module.

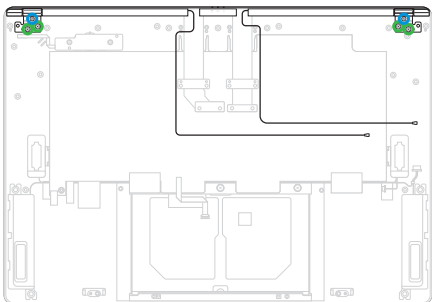


Installation

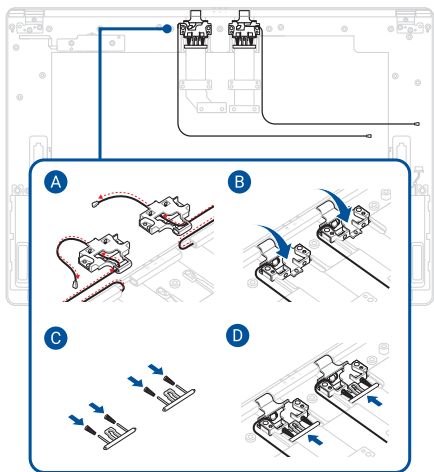
1. In the orientation shown, align and place the hinges of the display panel module on the screw holes.



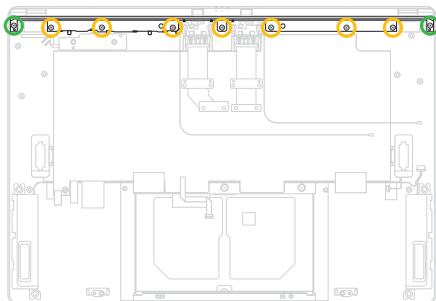
2. Secure the hinges using the screw(s) you removed earlier.



3. Thread the cable(s) through the opening(s) in the middle of the latch holder(s) as shown in the illustration below.
4. Flip over the latch holder(s), then align and install the latch holder(s) on the keyboard module.
5. Install the spring(s) on the latches in the correct orientation with the small end down.
6. Align and install the latches back to the latch holder(s).



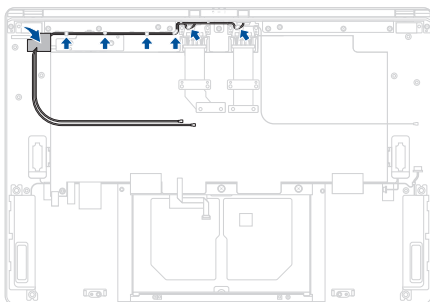
7. Secure the thermal cover using the screw(s) you removed earlier.



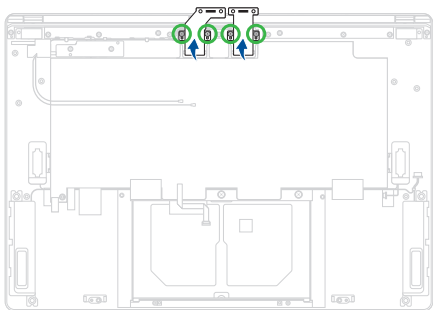
8. Route the cable through the cable guide(s).

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.

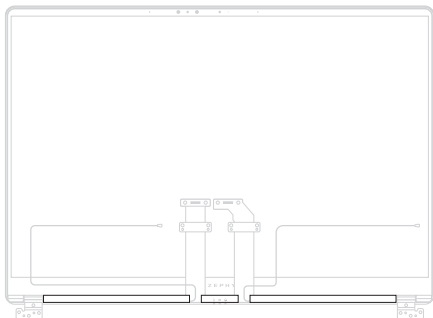
9. Reattach the tape.



10. Cover the cable latch holder(s) with the FPC cable(s) and secure the FPC cable using the screw(s) you removed earlier.
11. Install the components you removed in the *Before you begin* section.



Hinge cap

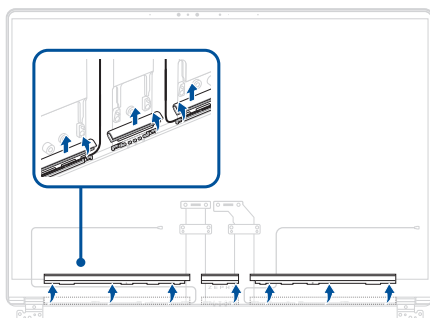


Before you begin

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:
 - Battery
 - M.2 SSD module
 - WLAN module
 - Fan module (vapor chamber heat sink models)
 - Vapor chamber heat sink and motherboard (on selected models)
 - Fan module, heat pipe heat sink and motherboard (on selected models)
 - Display panel module

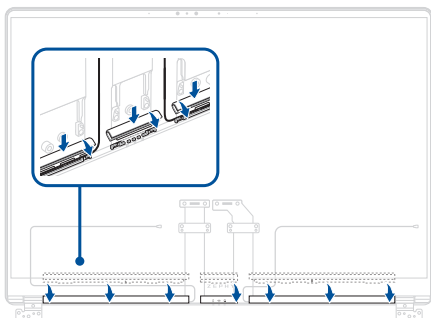
Removal

Use the plastic blade to pry open the three-part hinge cap from the display panel module as shown in the illustration below.



Installation

1. Align and install the three-part hinge cap to the display panel module.
2. Install the components you removed in the *Before you begin* section.

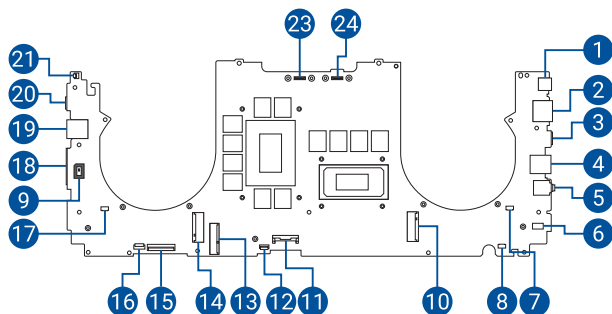


Appendices

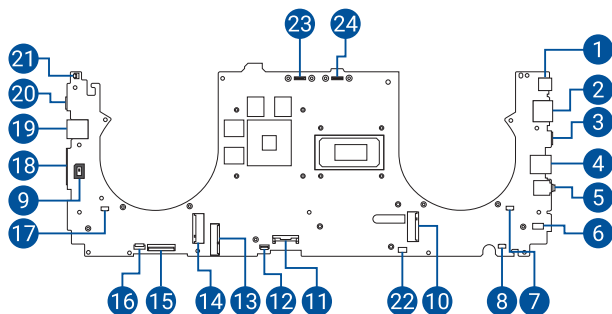
Wiring and connection diagrams

Top View

GU605CX

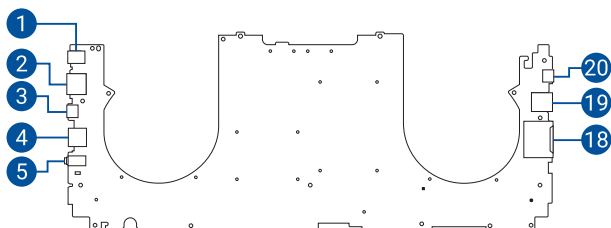


GU605CP

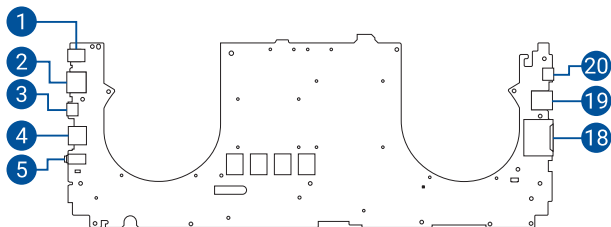


Bottom View

GU605CX



GU605CP



- | | |
|---------------------------|----------------------------------|
| 1. Power supply connector | 13. WLAN module connector |
| 2. HDMI connector | 14. SSD connector (SSD2) |
| 3. USB Type-C® connector | 15. Keyboard connector |
| 4. USB Type-A connector | 16. Keyboard backlight connector |
| 5. Audio connector | 17. GPU fan connector |
| 6. Woofer connector | 18. microSD card slot |
| 7. CPU fan connector | 19. USB Type-A connector |
| 8. Tweeter connector | 20. USB Type-C® connector |
| 9. Ambient light sensor | 21. Power button connector |
| 10. SSD connector (SSD1) | 22. Support fan connector |
| 11. Battery connector | 23. Camera/LED connector |
| 12. Touchpad connector | 24. eDP connector |