E25962
First Edition / June 2025

G SERIES

EXTERNAL GRAPHICS EXTENDER

SERVICE MANUAL

MORE INFO:

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Table of Contents

Chapter 1: Introduction

Disclaimer 6
Safety precautions 6
Pre-repair checklist 8
Repair tools 9
Diagnostic tools 9
Major components 10

Chapter 2: Service Procedures

Top cover 14
- Removal 15
- Installation 18

Power supply unit 21
- Removal 22
- Installation 24

Logo LED module 26
- Removal 27
- Installation 30

Motherboard 33
- Removal 34
- Installation 35

Fan module 36
Removal 37
Installation 40
Heat sink 43
Removal 44
Installation 46

Appendices

Wiring and connection diagrams 50

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 power supply unit (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



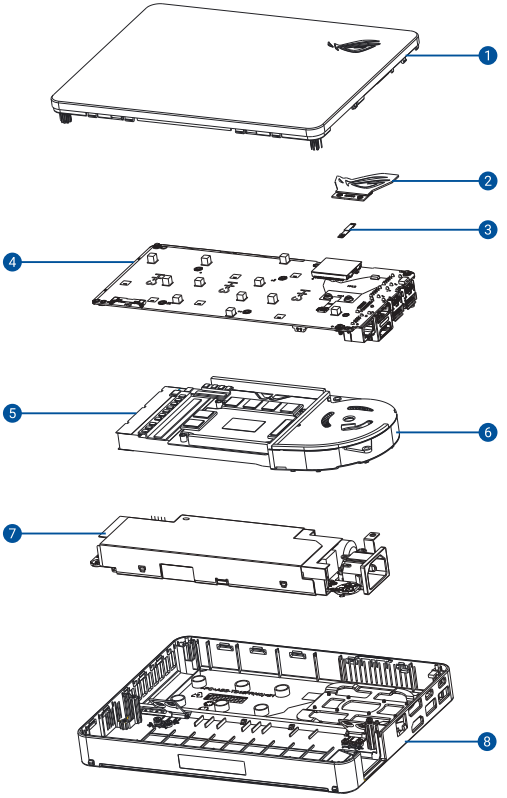
Tweezers

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



1. Top cover
2. Logo LED module
3. Logo LED cable
4. Motherboard
5. Heat sink
6. Fan module
7. Power supply unit
8. Bottom cover

Chapter 2: Service Procedures

Top cover



Before you begin

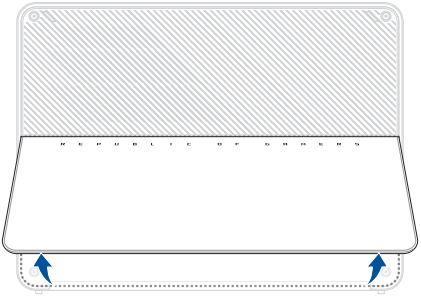
Read the **Safety Precautions** and complete the **Pre-repair Checklist**.

Screw list

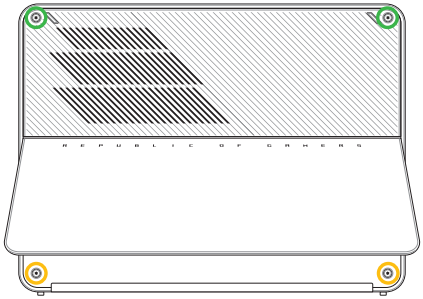
- M2.0 X 25.0L (2pcs)
- M2.0 X 11.5L (2pcs)

Removal

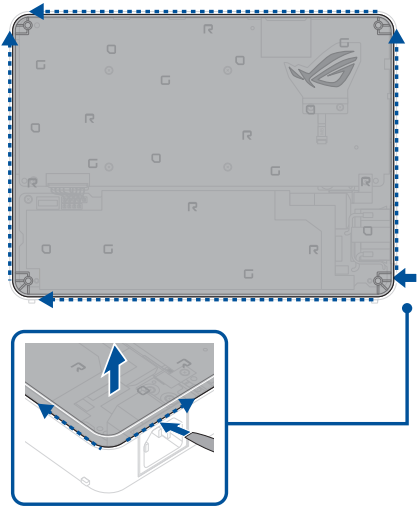
1. Open the kickstand.



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

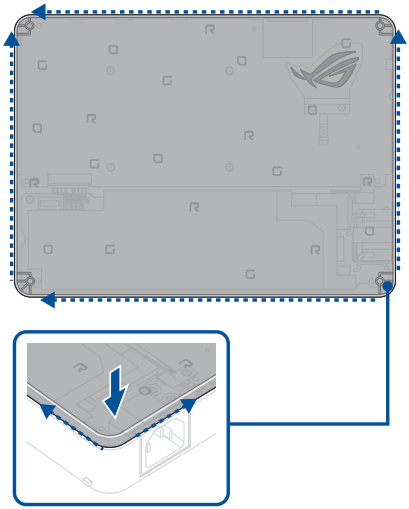


3. Pry and remove the top cover.

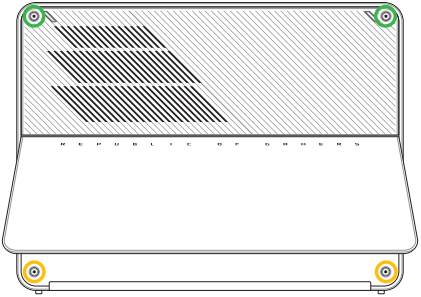


Installation

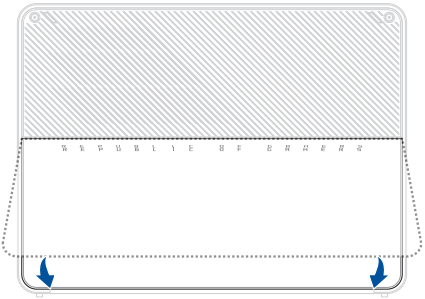
1. Align and install the top cover.



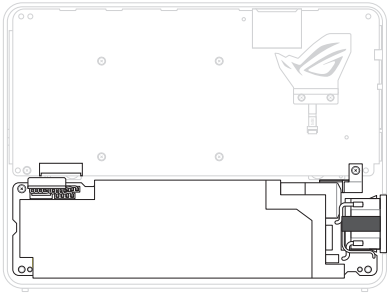
2. Secure the bottom cover using the screw(s) you removed earlier.



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



Power supply unit



Before you begin

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

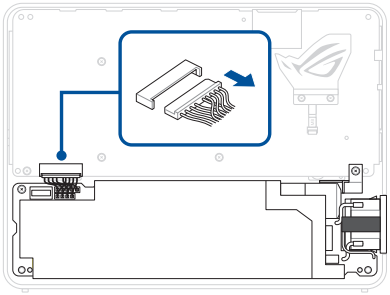
Screw list

- M2.0 X 5.5L (2pcs)

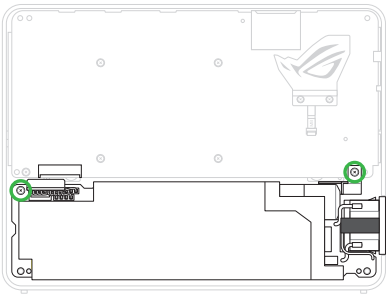
Removal

1. Disconnect the cable from the power supply unit.

IMPORTANT! Serious risk of fire or explosion may occur if the power supply unit is punctured. If you are uncertain about proceeding, stop and contact an authorized service center for assistance.

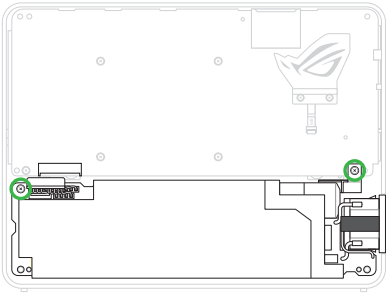


2. Remove the screw(s) from the power supply unit.
3. Remove the power supply unit.

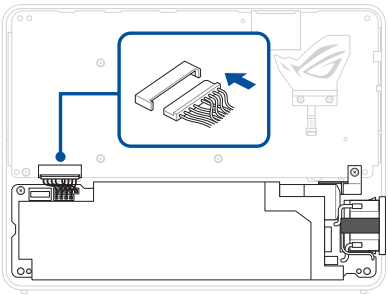


Installation

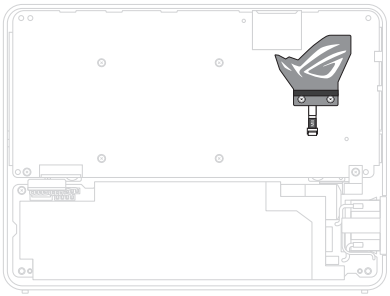
1. Align and install the power supply unit.
2. Secure the power supply unit using the screw(s) you removed earlier.



3. Reconnect the cable to the power supply unit.
4. Install the components you removed in the *Before you begin* section.



Logo LED module



Before you begin

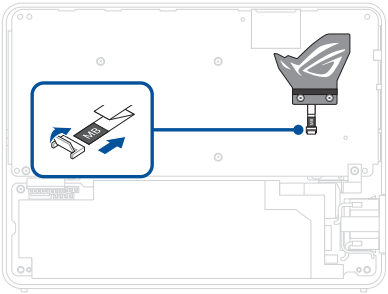
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the top cover and disconnect the cable from the power supply unit.

Screw list

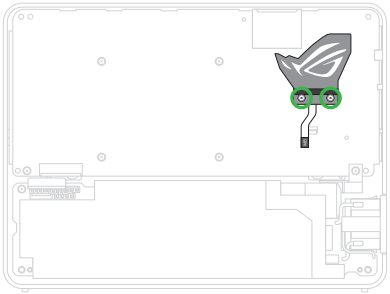
- M2.0 X 3.0L (2pcs)

Removal

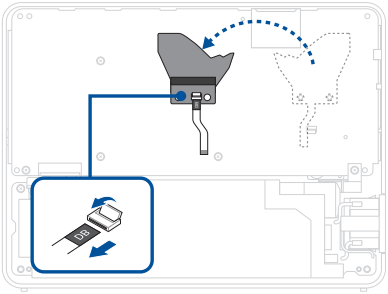
1. Disconnect the cable from the motherboard.



2. Remove the screw(s).

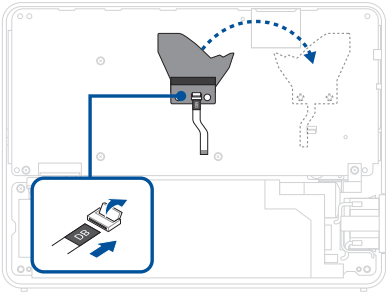


3. Flip over the logo LED module, then disconnect the cable from the back of the logo LED module.

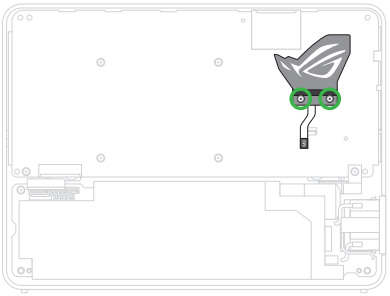


Installation

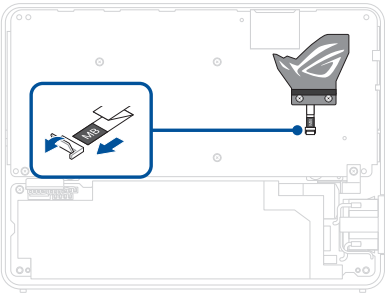
1. Reconnect the cable to the back of the logo LED module.
2. Flip over the logo LED module, then align and install the logo LED module.



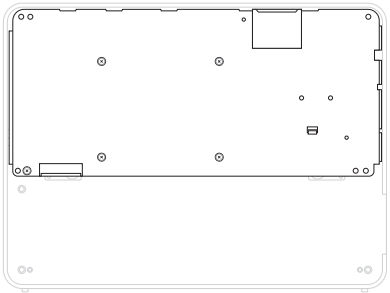
3. Secure the logo LED module using the screw(s) you removed earlier.



4. Reconnect the cable to the motherboard.
5. Install the components you removed in the *Before you begin* section.



Motherboard



Before you begin

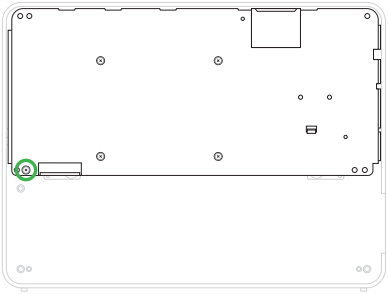
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the top cover and disconnect the cable from the power supply unit.
3. Remove the following components:
    - Power supply unit
    - Logo LED module

Screw list

● ⊕ M2.0 X 5.5L (1pc)

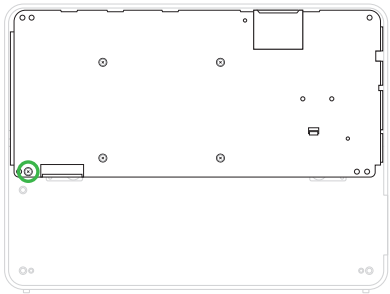
Removal

1. Remove the screw.
2. Remove the motherboard.

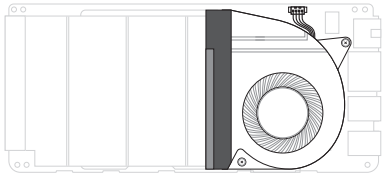


Installation

1. Align and install the motherboard.
2. Secure the motherboard using the screw you removed earlier.
3. Install the components you removed in the *Before you begin* section.



Fan module



Before you begin

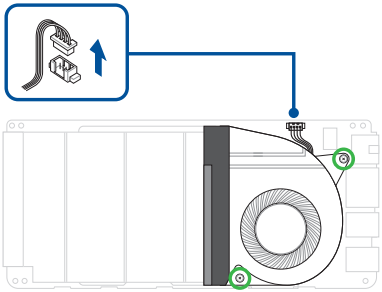
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the top cover and disconnect the cable from the power supply unit.
3. Remove the following components:
   - Power supply unit
   - Logo LED module
   - Motherboard

Screw list

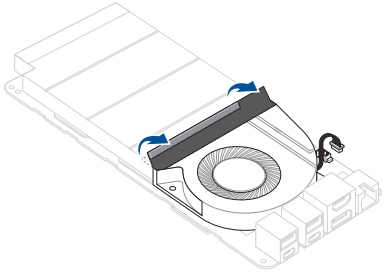
- ⊕ M2.0 X 3.0L (2pcs)

Removal

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

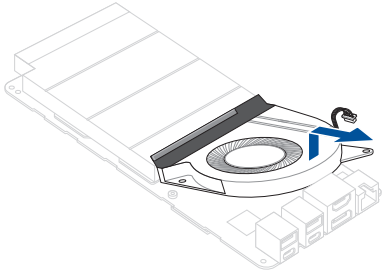


3. Partially peel off the tape from the heat sink.



4. Carefully tilt the fan upward and remove the fan in the orientation as shown in the illustration below.

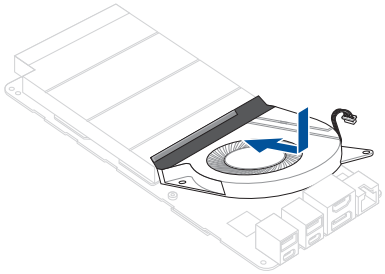
IMPORTANT! Damage may occur if the service procedure is performed incorrectly.



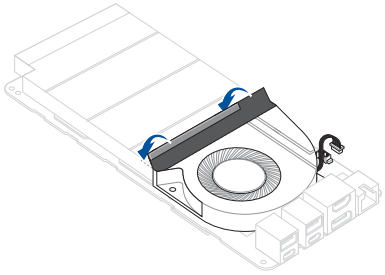
Installation

1. Carefully tilt the fan downward, then align and install the fan in the orientation as shown in the illustration below.

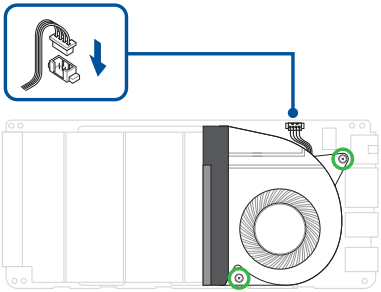
IMPORTANT! Damage may occur if the service procedure is performed incorrectly.



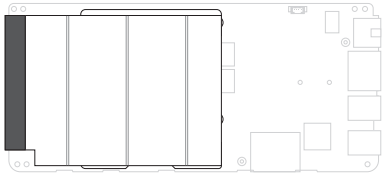
2. Attach the tape.



3. Secure the fan using the screw(s) you removed earlier.
4. Reconnect the fan connector.
5. 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.

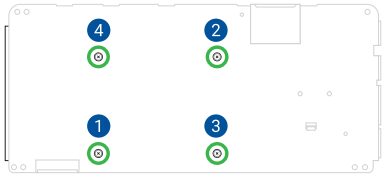
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the top cover and disconnect the cable from the power supply unit.
3. Remove the following components:
   - Power supply unit
   - Logo LED module
   - Motherboard
   - Fan module

Screw list

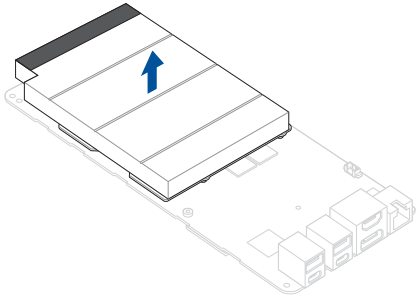
- M2.5 X 6.0L (4pcs)

Removal

1. Remove the screw(s) from the top side of the motherboard one by one in the sequence shown in the illustration below.

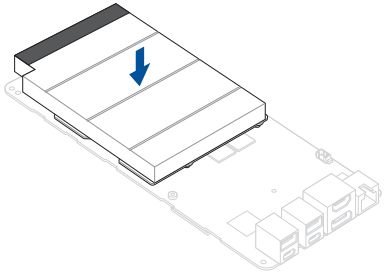


2. Remove the heat sink from the bottom side of the motherboard.



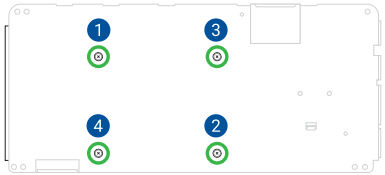
Installation

1. Align and install the heat sink in the orientation as shown in the illustration below.



2. Secure the heat sink using the screw(s) you removed earlier one by one in the sequence shown in the illustration below.

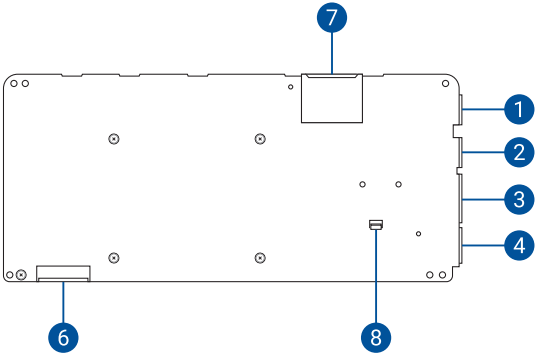
3. Install the components you removed in the *Before you begin* section.



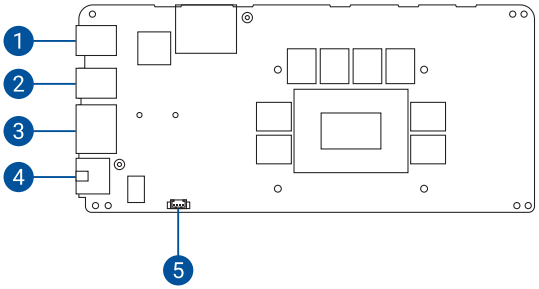
Appendices

Wiring and connection diagrams

Top View



Bottom View



1. USB Type-C® connector
   USB Type-A connector
2. USB Type-C® connector
   USB Type-A connector
3. DisplayPort connector
   HDMI connector
4. LAN connector
5. Fan connector
6. Power supply unit connector
7. Card reader connector
8. Logo LED power connector