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# IN SEARCH OF INCREDIBLE

Service Manual

ASUS

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# Important information

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## SERVICE AND SUPPORT

Visit our multi-language website at https://www.asus.com/support/.

# *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.

## Repair and reuse information

This device meets environmental and safety standards and is designed for easy repair and reuse.

- The components in this device can be disassembled and reassembled using commonly available tools.
- The screws in this device are reusable. If screws are damaged or missing, contact an ASUS service center for assistance.

# 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.

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**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.

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## Repair tools



**Screwdriver**



**Plastic blade**



**Tweezers**



**Protective mat**

## Accessories



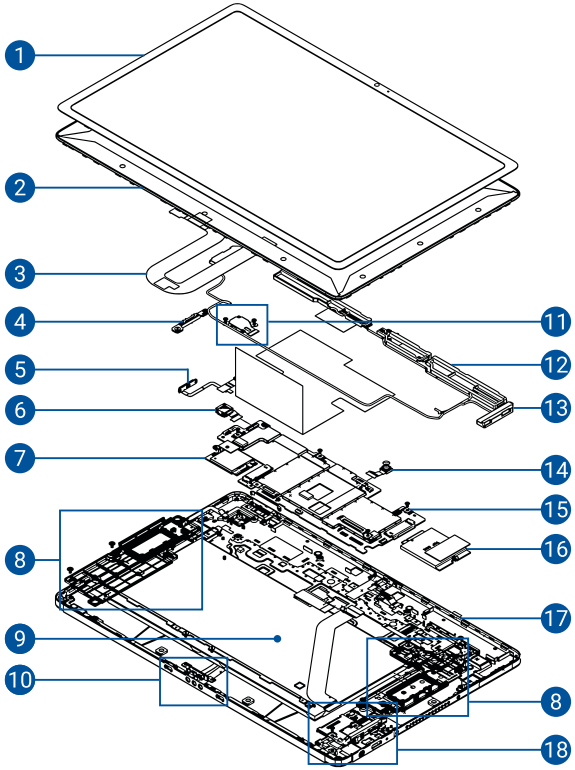
**Power adapter**

## Software repair tools

After replacing certain system components, you may be required to download and run a repair tool to complete the service procedure.

For more information, visit www.asus.com/support/FAQ/1051611/.

# Major components

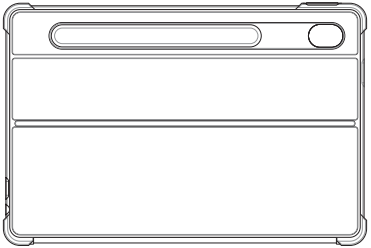


1. Display panel
2. Display bezel
3. eDP cable
4. Power button bracket
5. Power button
6. Rear camera module
7. WLAN module
8. Speakers
9. Battery
10. Keyboard connector
11. Rear camera bracket
12. LTE antenna*
13. WLAN antenna
14. Front camera module
15. Motherboard
16. LTE module*
17. Rear cover
18. I/O board

** On selected models*

# *Chapter 2: Service Procedures*

# Kickstand (on selected models)



## Before you begin

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

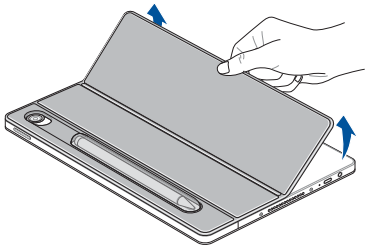
## Screw list

- ⊕ M1.6 X 3.85L (4pcs)

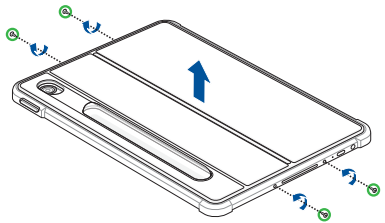
## Removal

1. Remove the screw(s) (on selected models).
2. Remove the kickstand.

**Magnetic kickstand**



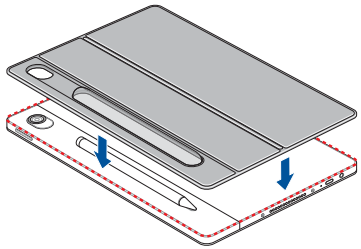
**Kickstand case**



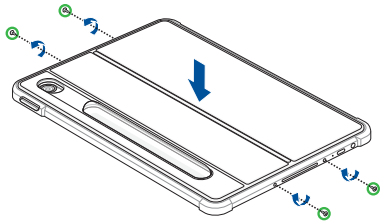
## Installation

1. Install the kickstand.
2. Secure the kickstand using the screw(s) you removed earlier (on selected models).

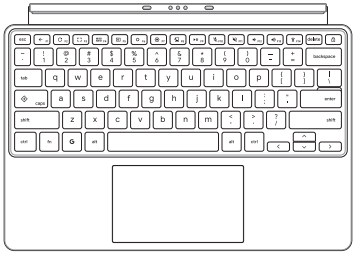
**Magnetic kickstand**



**Kickstand case**



# Keyboard module (on selected models)

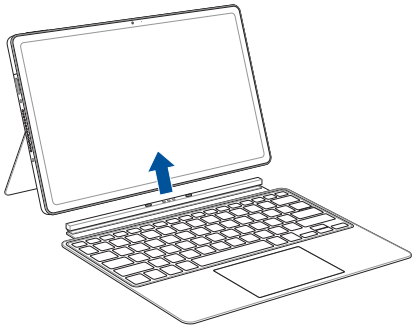


## Before you begin

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

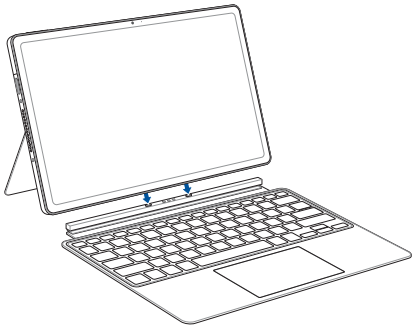
## Removal

Detach the device from the keyboard module.



## Installation

Attach the device to the keyboard module.



# 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 following components:
   - Kickstand (on selected models)
   - Keyboard module (on selected models)

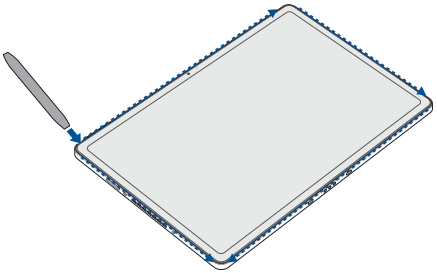
## Screw list

- ⊕ M1.6 X 2.3L (2pcs)

## Removal

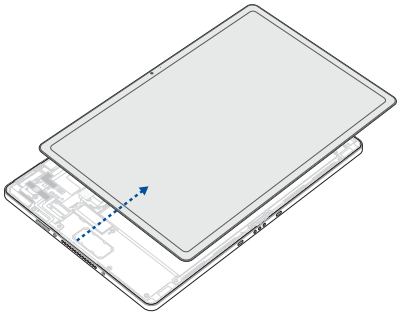
1. Use the plastic blade to pry open the indicated area of the display panel module as shown in the illustration below.

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

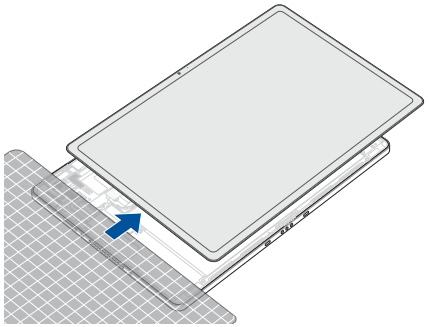


2. Lift the display panel module, then move it slightly to the right and hold it in place above the chassis.

**IMPORTANT!** Lift the display panel module carefully to avoid damaging the connected cable(s) or connector(s).

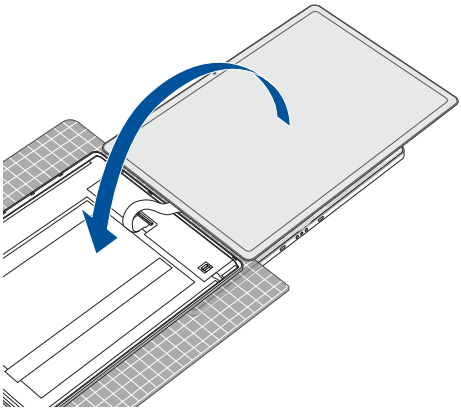


3. Place a protective mat between the chassis and display panel module.

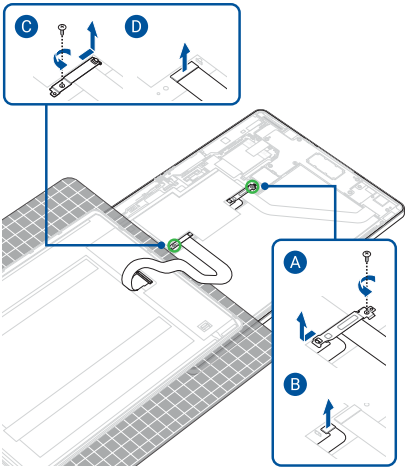


4. Flip the display panel over.

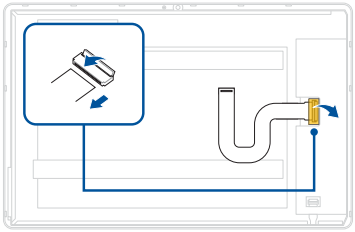
**IMPORTANT!** Lift the display panel module carefully to avoid damaging the connected cable(s) or connector(s).



5. Remove the screw(s).
6. Remove the cable brackets.
7. Disconnect the cable(s).

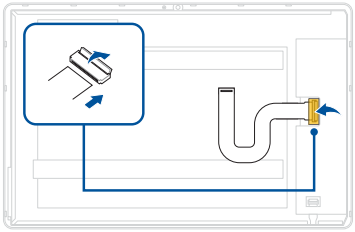


8. Remove the polymer film.
9. Disconnect the cable from the display panel module.

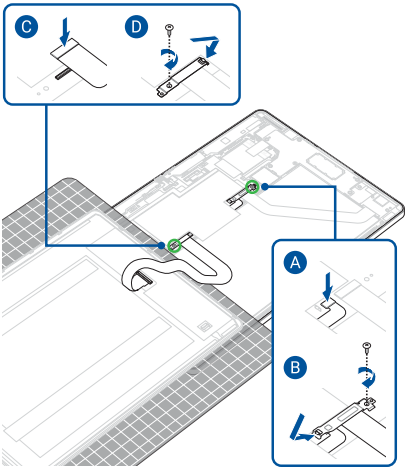


## Installation

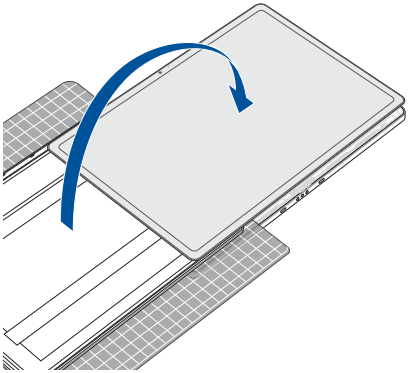
1. Reconnect the cable to the rear side of the display panel module.
2. Attach the polymer film.



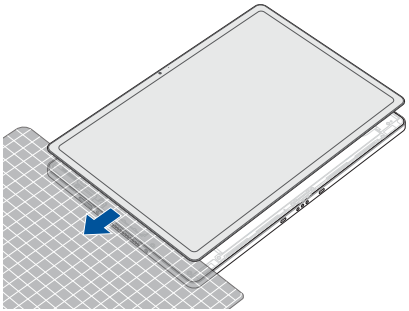
3. Place the display panel module and protective mat on the chassis.
4. Reconnect the cable(s).
5. Install the cable brackets, then secure the cable brackets using the screw(s) you removed earlier.



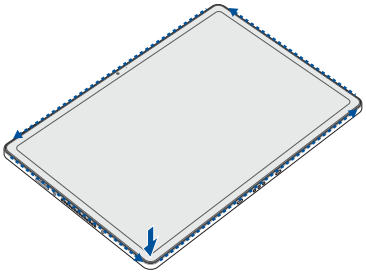
6. Flip the display panel over and align the display panel module with the chassis.



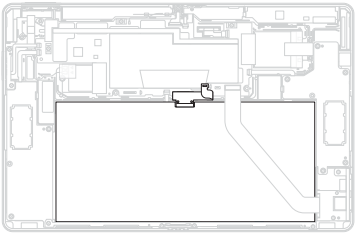
7. Remove the protective mat.



8. Gently press down on the display panel module until it clicks into place.
9. Install the components you removed in the *Before you begin* section.



# Battery



## Before you begin

**IMPORTANT!** 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.

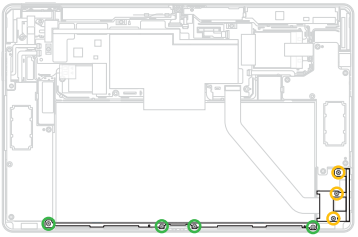
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the following components:
   - Kickstand (on selected models)
   - Keyboard module (on selected models)
   - Display panel module

## Screw list

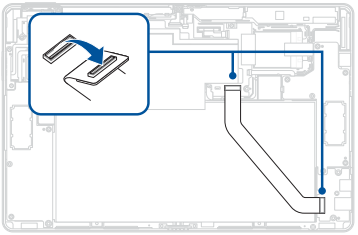
- ⊕ M1.6 X 2.8L (4pcs)
- ⊕ M1.6 X 2.3L (3pcs)

## Removal

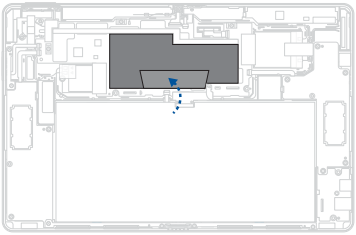
1. Remove the screw(s).
2. Remove the brackets.



3. Disconnect and remove the cable.

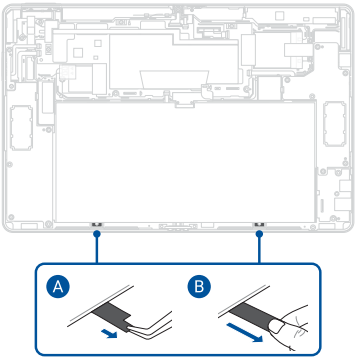


4. Partially peel off the polymer film.

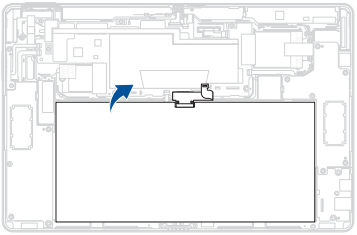


5. Locate the tip of the stretch release tape, then carefully pull out the stretch release tape as shown in the illustration below.

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

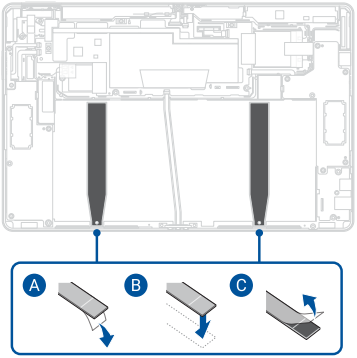


6. Remove the battery.

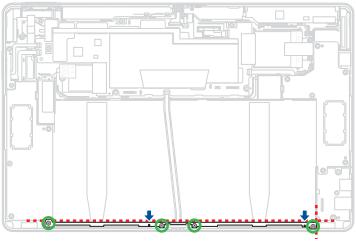


## Installation

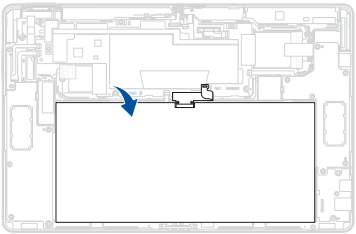
1. Remove the release liner from the bottom side of the stretch release tape.
2. Align and attach the stretch release tape to the chassis.
3. Remove the release liner from the top side of the stretch release tape.



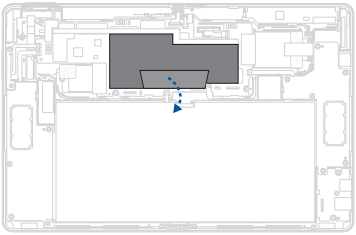
4. Install the bracket, then secure the bracket using the screw(s) you removed earlier.



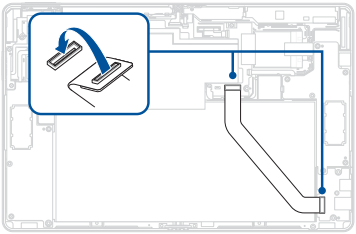
5. Install the battery.



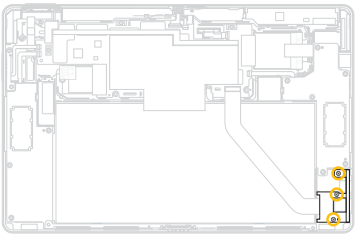
6. Attach the polymer film.



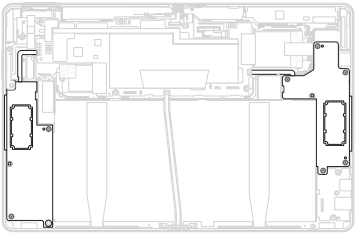
7. Reconnect the cable.



8. Install the brackets, then secure the brackets using the screw(s) you removed earlier.
9. Install the components you removed in the *Before you begin* section.



# Speakers



## Before you begin

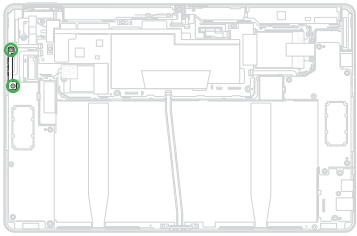
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the following components:
   - Kickstand (on selected models)
   - Keyboard module (on selected models)
   - Display panel module
   - Battery

## Screw list

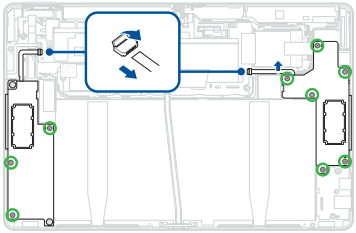
- ⊕ M1.6 X 2.8L (11pcs)

## Removal

1. Remove the screw(s).
2. Remove the bracket.

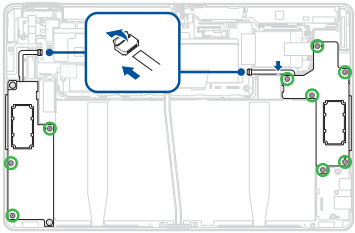


3. Disconnect the cable(s).
4. Remove the screw(s).
5. Remove the speakers.

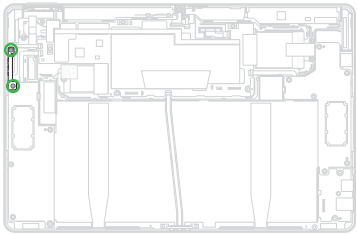


## Installation

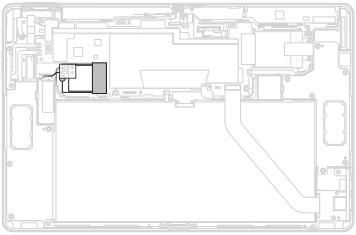
1. Install the speakers, then secure the speakers using the screw(s) you removed earlier.
2. Reconnect the cable(s).



3. Install the bracket, then secure the bracket using the screw(s) you removed earlier.
4. Install the components you removed in the *Before you begin* section.



# WLAN module



## Before you begin

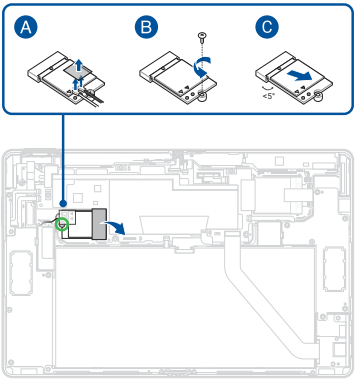
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the following components:
   - Kickstand (on selected models)
   - Keyboard module (on selected models)
   - Display panel module

## Screw list

- ⊕ M1.6 X 1.7L (1pc)

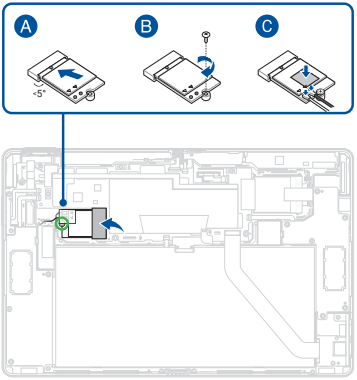
## Removal

1. Remove the tape.
2. Remove the polymer film.
3. Disconnect the cable(s).
4. Remove the screw.
5. Remove the WLAN module.

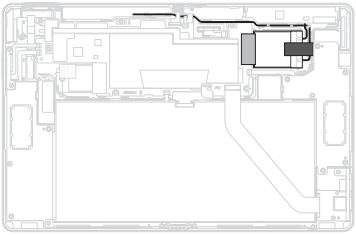


## Installation

1. Install the WLAN module, then secure the WLAN module using the screw you removed earlier.
2. Reconnect the cable(s).
3. Attach the polymer film.
4. Attach the tape.
5. Install the components you removed in the *Before you begin* section.



# LTE module (on selected models)



## Before you begin

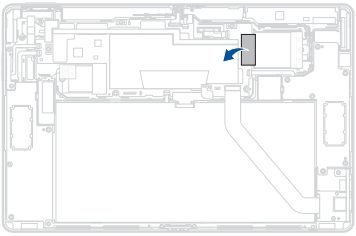
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the following components:
   - Kickstand (on selected models)
   - Keyboard module (on selected models)
   - Display panel module

## Screw list

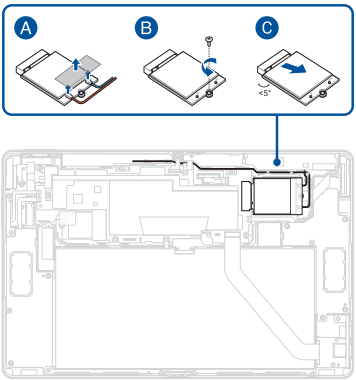
- ⊕ M1.6 X 1.7L (1pc)

## Removal

1. Remove the tape.

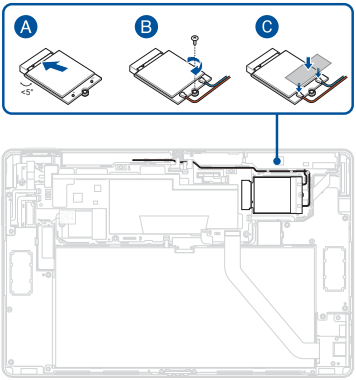


2. Remove the polymer film.
3. Disconnect the cable(s).
4. Remove the screw.
5. Remove the LTE module.

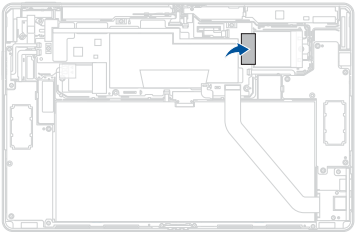


## Installation

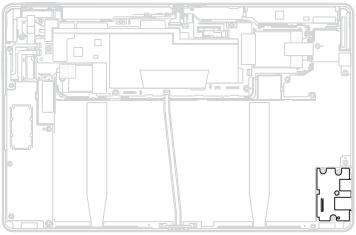
1. Install the LTE module, then secure the LTE module using the screw you removed earlier.
2. Reconnect the cable(s).
3. Attach the polymer film.



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



# I/O board



## Before you begin

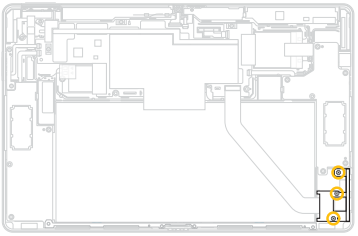
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the following components:
   - Kickstand (on selected models)
   - Keyboard module (on selected models)
   - Display panel module

## Screw list

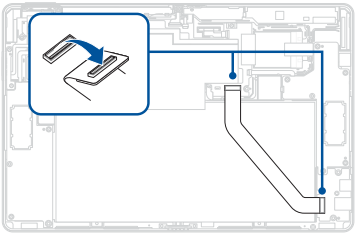
- ⊕ M1.6 X 2.8L (6pcs)
- ⊕ M1.6 X 2.3L (3pcs)

## Removal

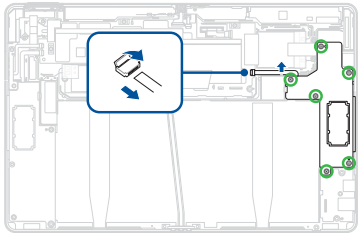
1. Remove the screw(s).
2. Remove the bracket.



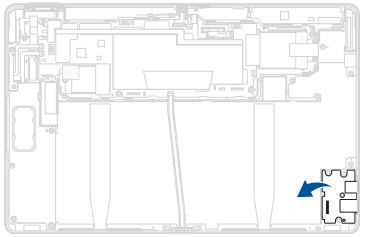
3. Disconnect and remove the cable.



4. Disconnect the cable.
5. Remove the screw(s).
6. Remove the speaker.

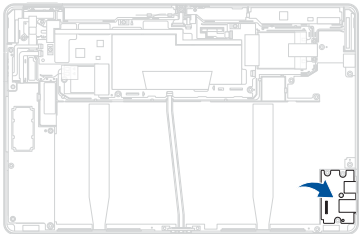


7. Remove the I/O board.

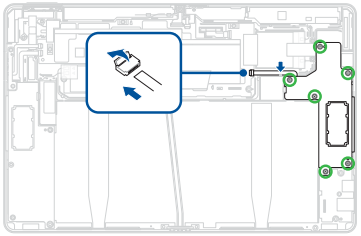


## Installation

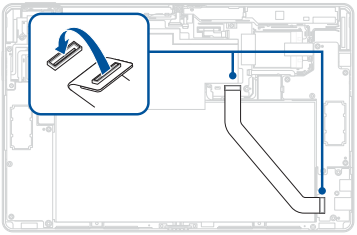
1. Install the I/O board.



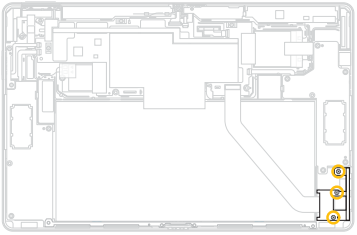
2. Install the speaker, then secure the speaker using the screw(s) you removed earlier.
3. Reconnect the cable.



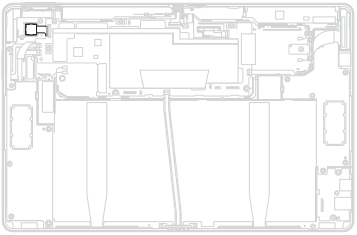
4. Reconnect the cable.



5. Remove the screw(s).
6. Remove the bracket.
7. Install the components you removed in the *Before you begin* section.



# Rear camera module



## Before you begin

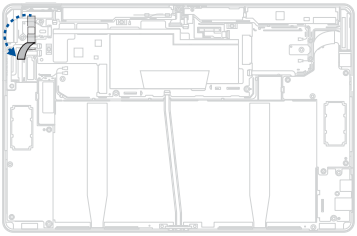
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the following components:
   - Kickstand (on selected models)
   - Keyboard module (on selected models)
   - Display panel module

## Screw list

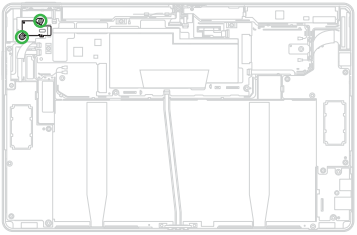
- ⊕ M1.6 X 2.3L (2pcs)

## Removal

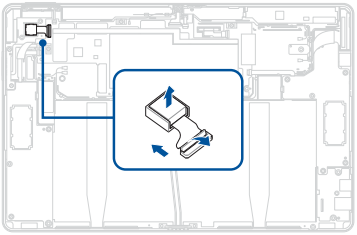
1. Partially peel off the polymer film.



2. Remove the screw(s).
3. Remove the bracket.

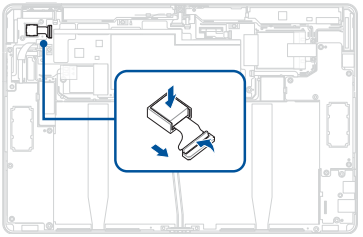


4. Disconnect the cable.
5. Remove the camera module.

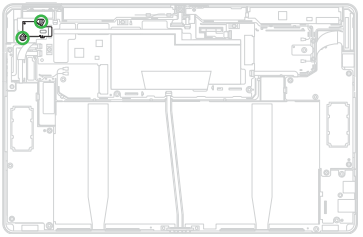


## Installation

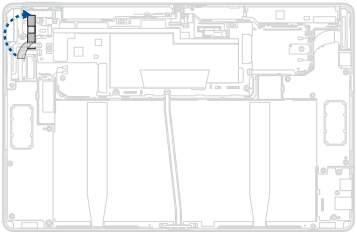
1. Install the camera.
2. Reconnect the cable.



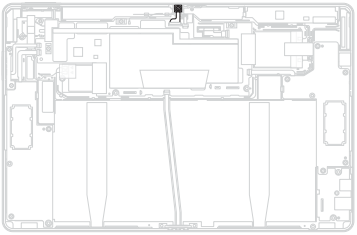
3. Install the bracket, then secure the bracket using the screw(s) you removed earlier.



4. Attach the polymer film.
5. Install the components you removed in the *Before you begin* section.



# Front camera module

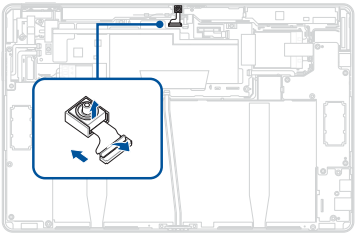


## Before you begin

1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the following components:
   - Kickstand (on selected models)
   - Keyboard module (on selected models)
   - Display panel module

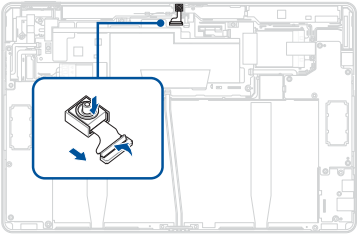
## Removal

1. Disconnect the cable.
2. Remove the camera module.

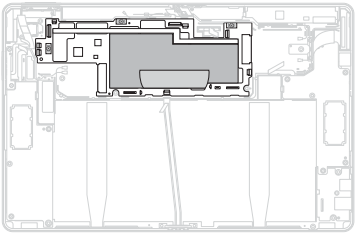


## Installation

1. Install the camera.
2. Reconnect the cable.
3. Install the components you removed in the *Before you begin* section.



# Motherboard



## Before you begin

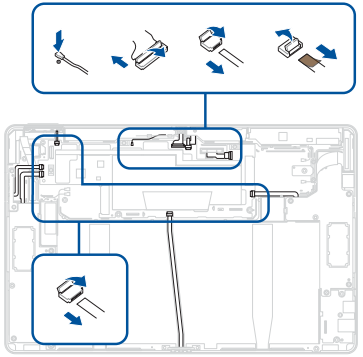
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the following components:
   - Kickstand (on selected models)
   - Keyboard module (on selected models)
   - Display panel module
   - Battery
   - WLAN module
   - LTE module (on selected models)
   - Rear camera module

## Screw list

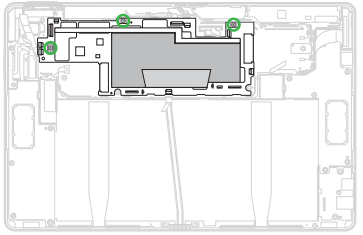
- ⊕ M1.6 X 2.3L (3pcs)

## Removal

1. Disconnect the cable(s).

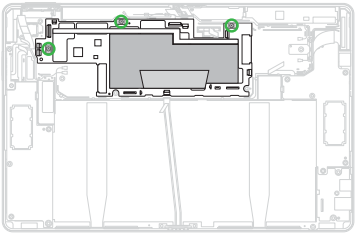


2. Remove the screw(s).
3. Remove the motherboard.

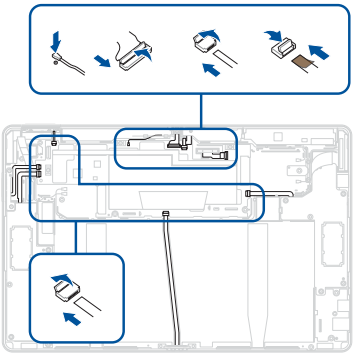


## Installation

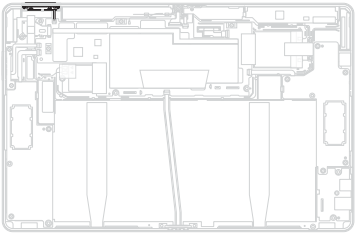
1. Install the motherboard, then secure the motherboard using the screw(s) you removed earlier.



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



# Volume button module

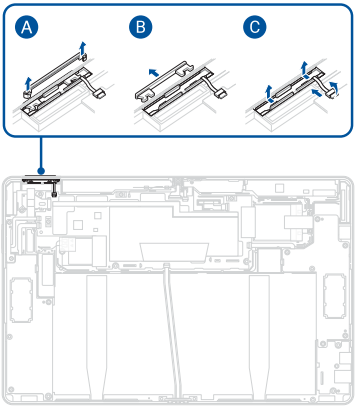


## Before you begin

1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the following components:
   - Kickstand (on selected models)
   - Keyboard module (on selected models)
   - Display panel module

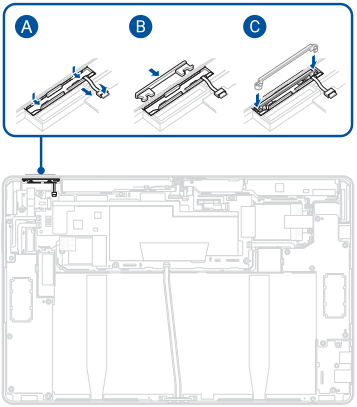
## Removal

1. Remove the bracket.
2. Remove the volume buttons.
3. Disconnect the cable.
4. Remove the volume button board.

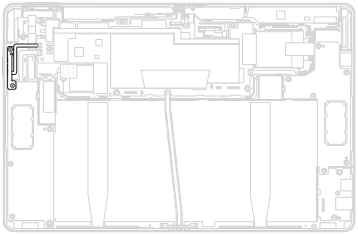


## Installation

1. Install the volume button board.
2. Reconnect the cable.
3. Install the volume buttons.
4. Install the bracket.
5. Install the components you removed in the *Before you begin* section.



# Power button module



## Before you begin

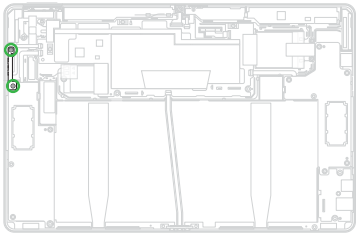
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the following components:
   - Kickstand (on selected models)
   - Keyboard module (on selected models)
   - Display panel module

## Screw list

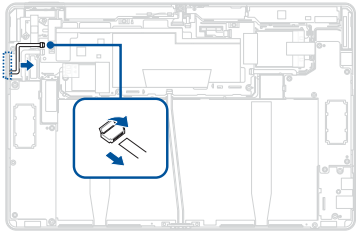
- ⊕ M1.6 X 2.8L (2pcs)

## Removal

1. Remove the screw(s).
2. Remove the bracket.

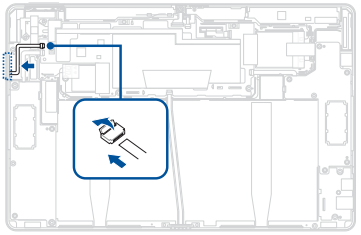


3. Disconnect the cable.
4. Remove the power button module.

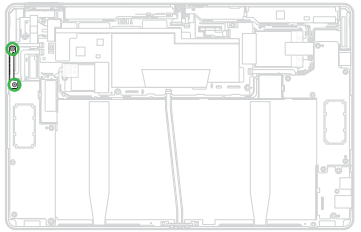


## Installation

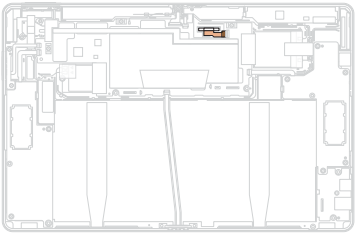
1. Install the power button module.
2. Reconnect the cable.



3. Install the bracket, then secure the bracket using the screw(s) you removed earlier.
4. Install the components you removed in the *Before you begin* section.



# Stylus charger

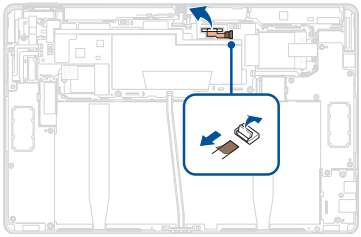


## Before you begin

1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the following components:
   - Kickstand (on selected models)
   - Keyboard module (on selected models)
   - Display panel module

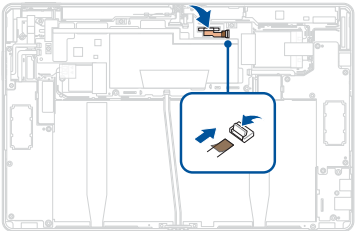
## Removal

1. Disconnect the cable.
2. Remove the stylus charger.

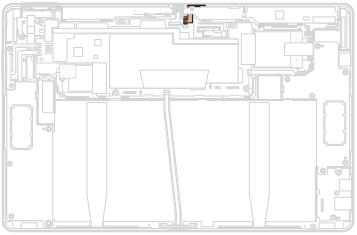


## Installation

1. Install the stylus charger.
2. Reconnect the cable.
3. Install the components you removed in the *Before you begin* section.



# Microphone

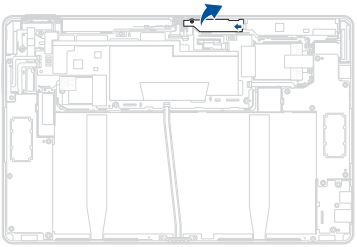


## Before you begin

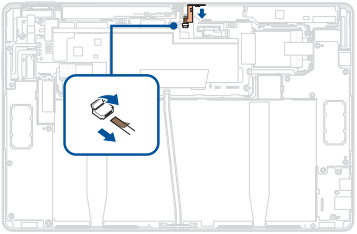
1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the following components:
   - Kickstand (on selected models)
   - Keyboard module (on selected models)
   - Display panel module

## Removal

1. Remove the bracket.

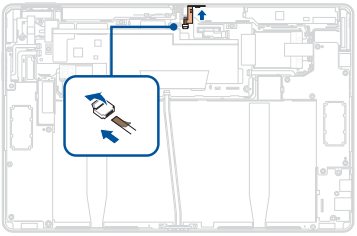


2. Disconnect the cable.
3. Remove the microphone.

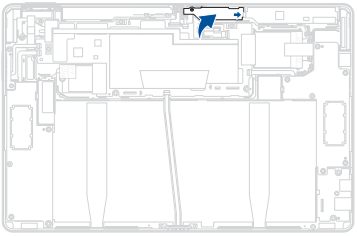


## Installation

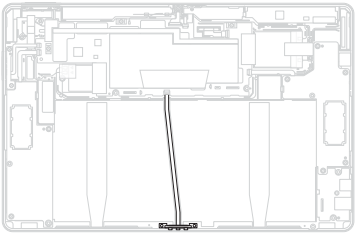
1. Install the microphone.
2. Reconnect the cable.



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



# Keyboard connector

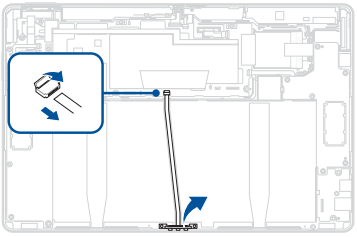


## Before you begin

1. Read the **Safety Precautions** and **Pre-repair Checklist**.
2. Remove the following components:
   - Kickstand (on selected models)
   - Keyboard module (on selected models)
   - Display panel module
   - Battery

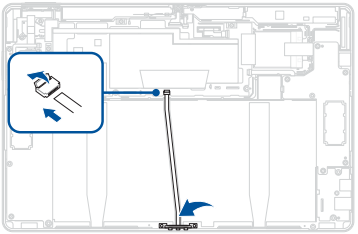
## Removal

1. Disconnect the cable.
2. Remove the keyboard connector.



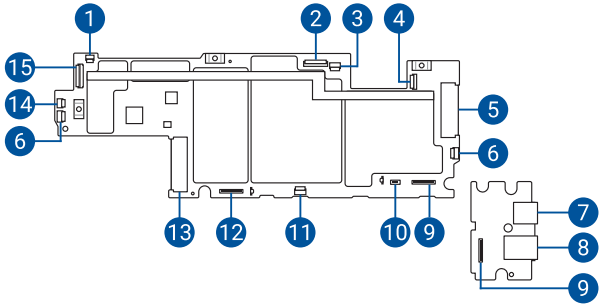
## Installation

1. Install the keyboard connector.
2. Reconnect the cable.
3. Install the components you removed in the *Before you begin* section.



# *Appendix*

# Wiring and connection diagrams




1. Volume button connector
2. Front camera connector
3. Microphone connector
4. Stylus charger connector
5. LTE module connector*
6. Speaker connector
7. USB Type-C® connector
8. Audio connector
9. I/O board connector
10. Battery connector
11. Keyboard connector
12. eDP connector
13. WLAN module connector
14. Power button connector
15. Rear camera connector

** On selected models*