E18002
First Edition / August 2021

IN SEARCH OF INCREDIBLE

Service Manual

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Disclaimer

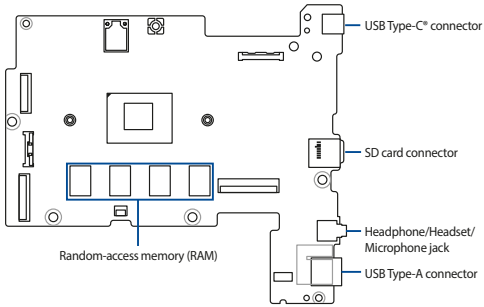
ASUS is not responsible for direct, indirect, intentional or unintentional damages resulting from improper installation and operation.

Safety precautions

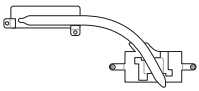
- Keep liquids or moisture away from your Notebook PC before installing or removing any components.
- Ensure to place your Notebook PC on a stable surface before installing or removing any components.
- Detach the clip or flap before removing the signal cables to prevent damage.
- Disconnect the power plug by pulling the plug evenly to avoid damage. Ensure to connect the signal cables in the correct orientation.
- Disconnect all power cables and remove the battery pack (if applicable) before cleaning your Notebook PC with liquid detergent to avoid risk of electric shock.
- Disconnect all power cables and remove the battery pack (if applicable) before installing or removing any components. Ensure to read and follow the instructions in the manual.

- 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 Notebook PC to avoid short circuits.
- Hold components by the edges to avoid touching the ICs.
- Ensure to properly install all the 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.
- Ensure to install the correct screw models on your Notebook PC to prevent damage.

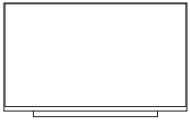
Major components



Motherboard with ports and connectors

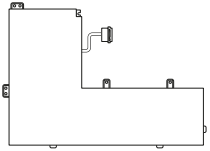


Cooling radiator



LCD panel module

Power adapter



Battery and power connector

NOTE:

- The illustrations are for reference only.
- The maintenance procedures described in this manual depend on the model configuration and may not reflect the entire servicing process. For servicing those components that are not covered in this manual, please visit an authorized service center for further assistance.

Installation tools

Screwdriver

Plastic blade

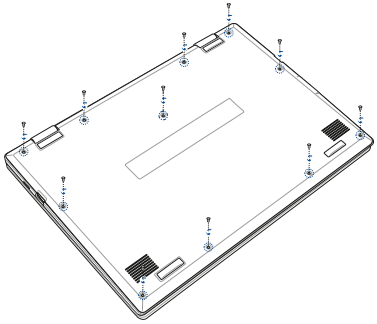
Tweezers

Removing the compartment cover

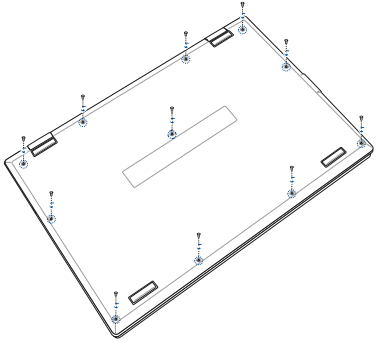
NOTE: The appearance of your Notebook PC's bottom view may vary per model.

A. Remove the screw(s) from the Notebook PC's compartment cover.

CX1400 model

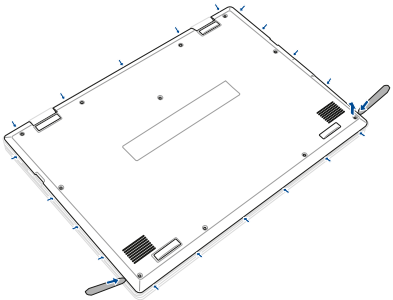


CX1500 model

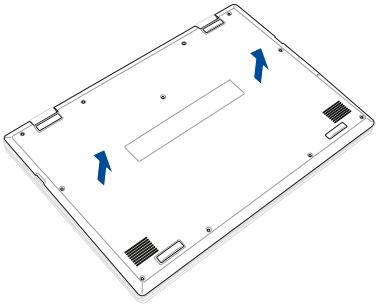


B. Use the plastic blade to pry open the indicated area of the compartment cover as shown in the illustration below.

IMPORTANT! Avoid sliding the plastic blade along the side of your Notebook PC to prevent damage.



C. Pull out the compartment cover and remove it completely from your Notebook PC.

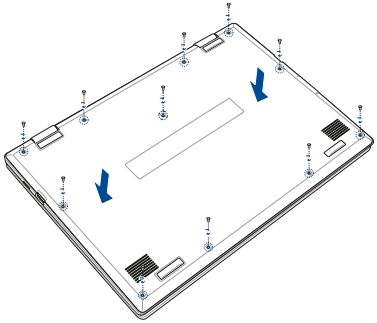


To reattach the compartment cover:

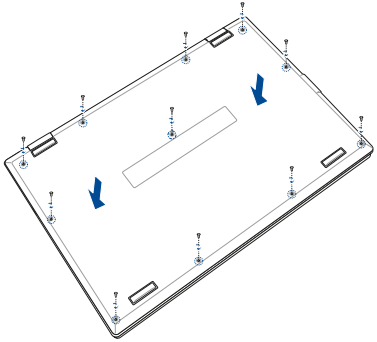
A. Align and reattach the compartment cover.

B Secure the compartment cover using the screw(s) you removed earlier.

CX1400 model

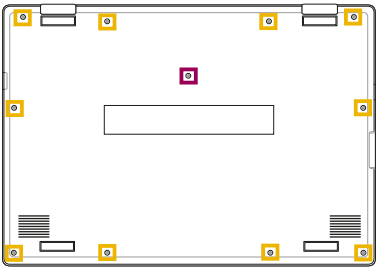


CX1500 model

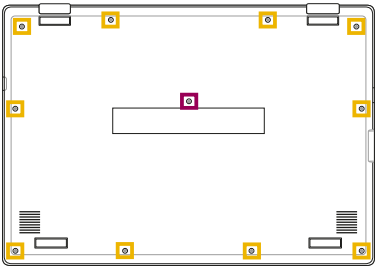


Compartment cover screw map

CX1400 model



CX1500 model



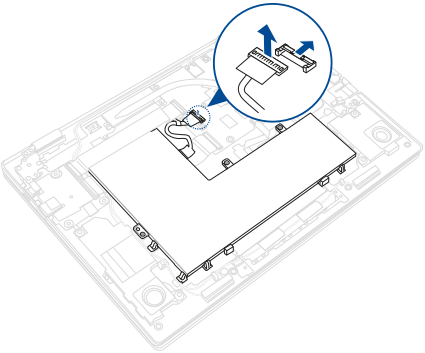
M2.5 X 6.0L (10PCS)
M2.5 X 5.5L (1PCS)

Disconnecting the battery

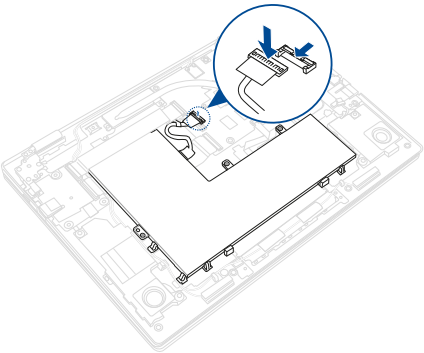
A. Remove the compartment cover.

NOTE: For more details, refer to the *Removing the compartment cover* section in this manual.

B. Locate and disconnect the battery power cable(s) as shown in the illustration below.



To connect the battery, align and connect the cable to the battery connector before you reattach the compartment cover.



Replacing the battery

Refer to the following steps when installing a compatible battery in your Notebook PC:

IMPORTANT! Purchase your battery from authorized retailers of this Notebook PC to ensure maximum compatibility and reliability.

WARNING! Disconnect all the connected peripherals, any telephone or telecommunication lines and power connector (such as external power supply, battery pack, etc.) before removing the compartment cover.

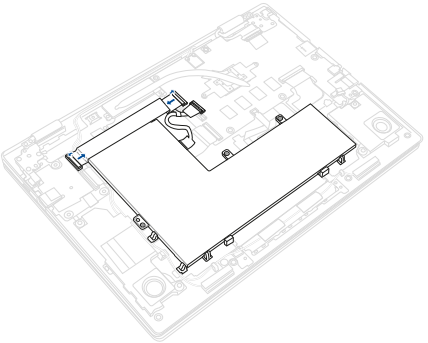
NOTE:

- The appearance of your Notebook PC's bottom view and battery may vary per model but the module installation remains the same.
- It is recommended that you install the battery under professional supervision. You may also visit an authorized service center for further assistance.

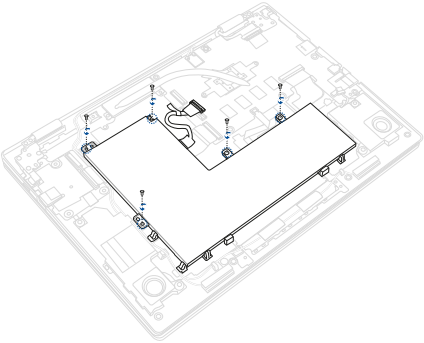
A. Remove the compartment cover and disconnect the battery.

NOTE: For more details, refer to the *Removing the compartment cover* and *Disconnecting the battery* sections in this manual.

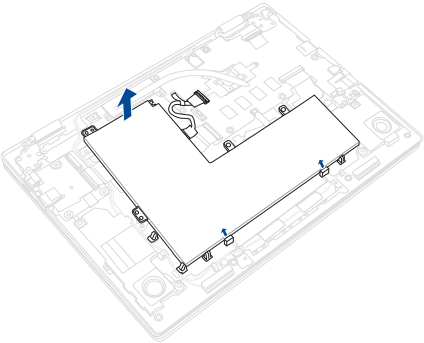
B. Locate and disconnect the I/O FFC cable as shown in the illustration below.



C. Remove the screw(s) from the battery.

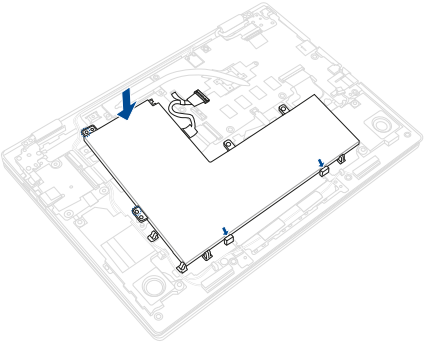


D. Remove the battery.

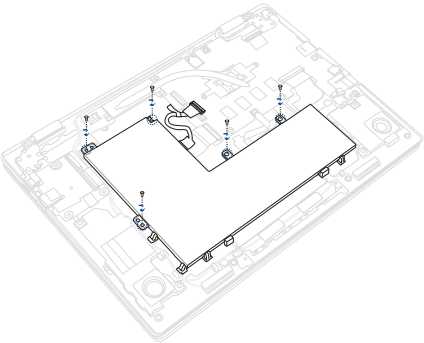


E. Prepare the new battery.

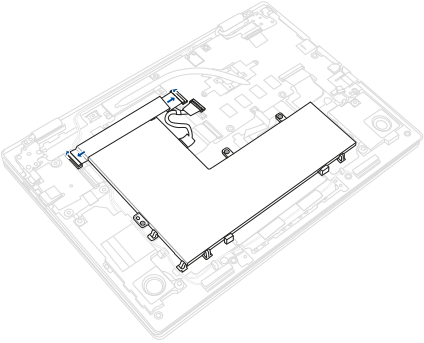
F. Reinstall the battery as shown in the illustration below.



G. Secure the battery using the screw(s) you removed earlier.



H. Reconnect the I/O FFC cable as shown in the illustration below.



Replacing the LCD module

IMPORTANT! Do not bend the LCD panel in any ways to avoid risk of LCD panel leakage.

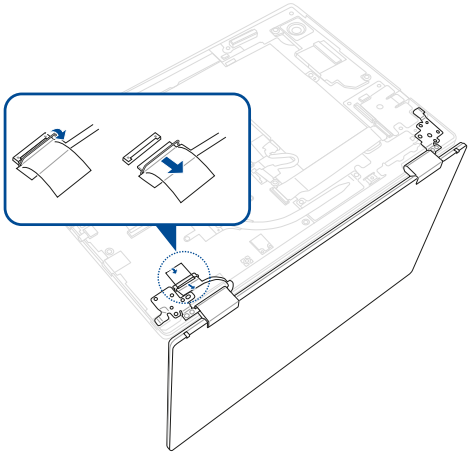
NOTE: The illustrations are for reference only.

A. Remove the compartment cover and disconnect the battery.

NOTE: For more details, refer to the *Removing the compartment cover* and *Disconnecting the battery* sections in this manual.

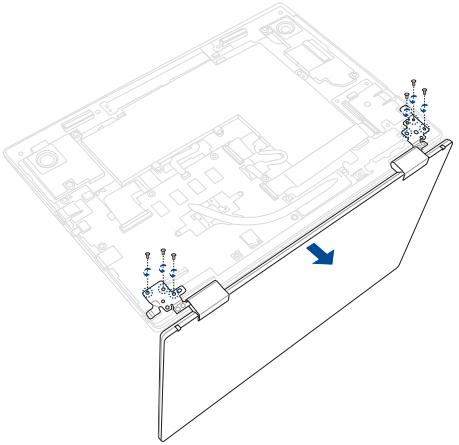
B. Place your Notebook PC in the orientation as shown in the illustration below.

C. Locate and disconnect the eDP cable as shown in the illustration below.

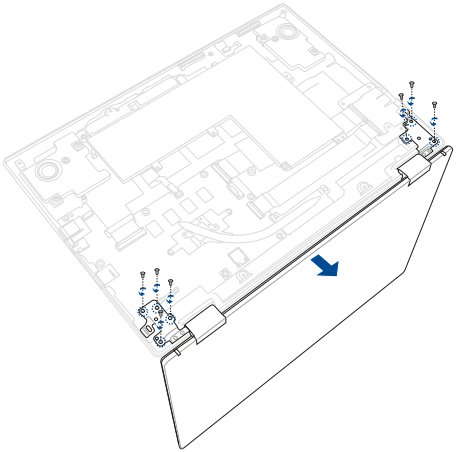


D. Remove the screw(s) from the hinge, and then remove the LCD panel module.

CX1400 model

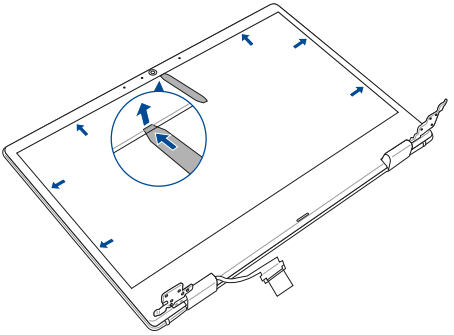


CX1500 model



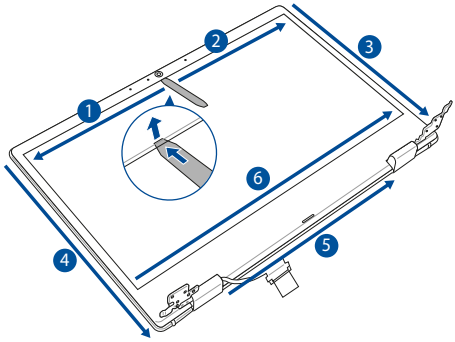
E. Use the plastic blade to pry loose the bezel as shown in the illustration below.

CX1400 model

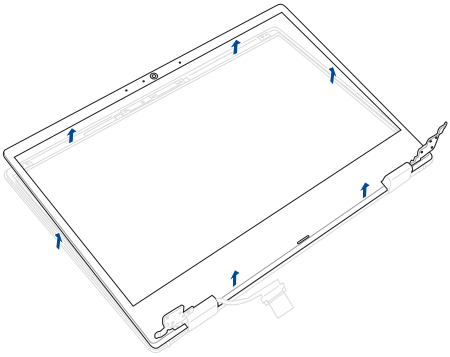


IMPORTANT! When removing the bezel for CX1500 model, make sure to follow the arrows and step order from 1 to 6 as shown in the illustration below.

CX1500 model

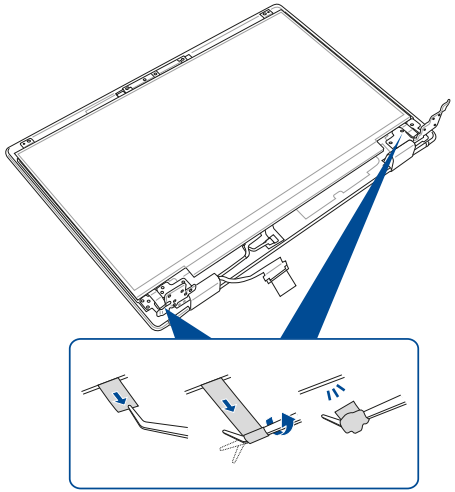


F. Remove the bezel.



G. Locate the tip of the adhesive strips.

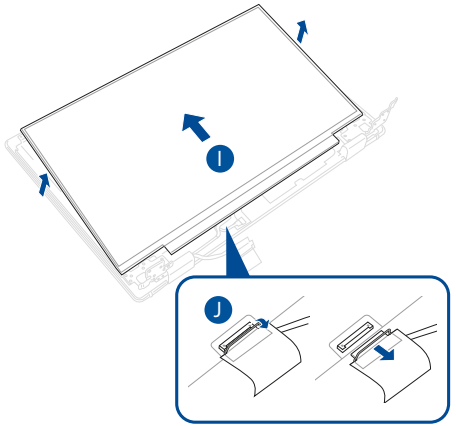
H. Carefully pull the adhesive strips out one part at a time as shown in the illustration below.



WARNING! Avoid pulling the adhesive strips with excessive force or the adhesive strips might break.

I. Remove the LCD panel module.

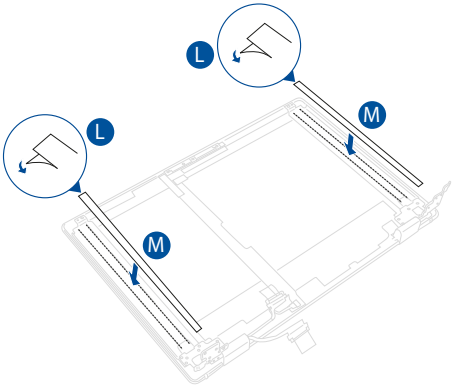
J. Locate and disconnect the eDP cable as shown in the illustration below.



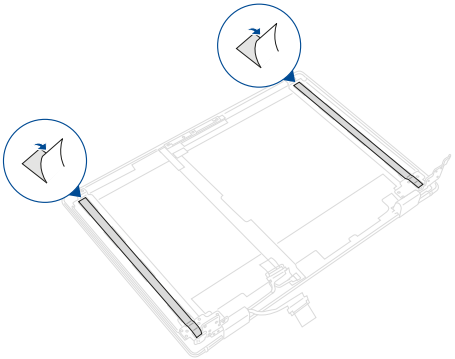
K. Prepare the new adhesive strips.

L. Remove the release liner underneath the adhesive strips.

M. Align and apply the adhesive strips as shown in the illustration below.



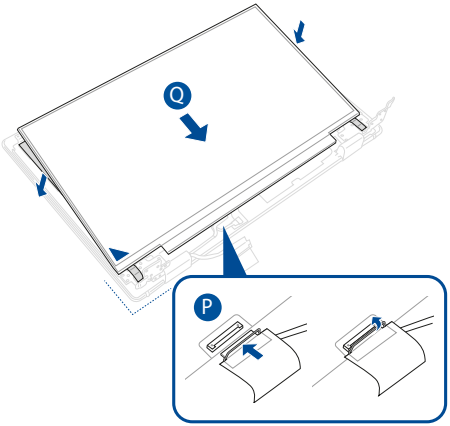
N. Remove the release liner above the adhesive strips.



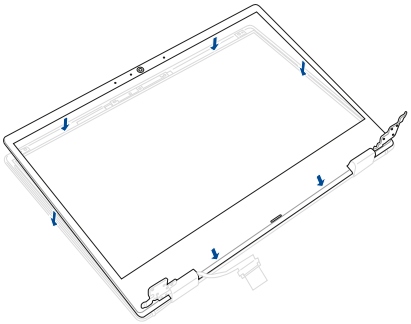
O. Prepare the new LCD panel module.

P. Reconnect the eDP cable as shown in the illustration below.

Q. Align and place the new LCD panel module in the orientation as shown in the illustration below.



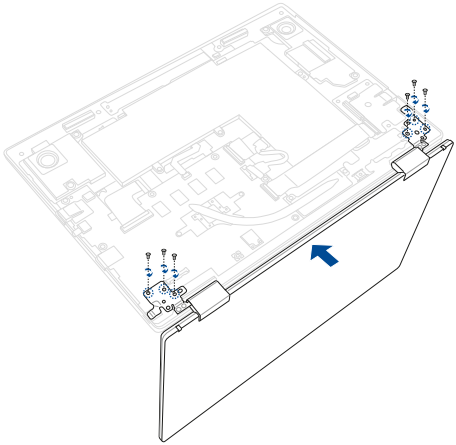
R. Align and gently reattach the bezel around the display panel.



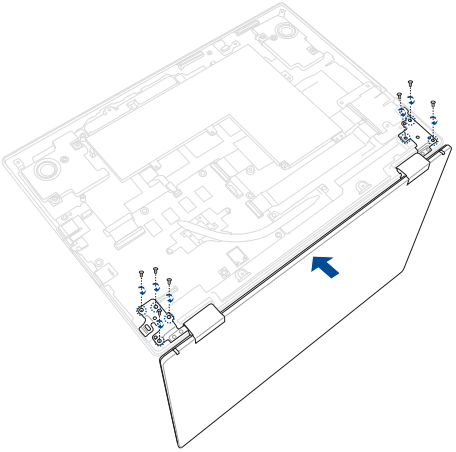
S. In the orientation shown, align and place the hinge of the display module on the screw holes on the chassis.

T. Secure the LCD panel module using the screw(s) you removed earlier.

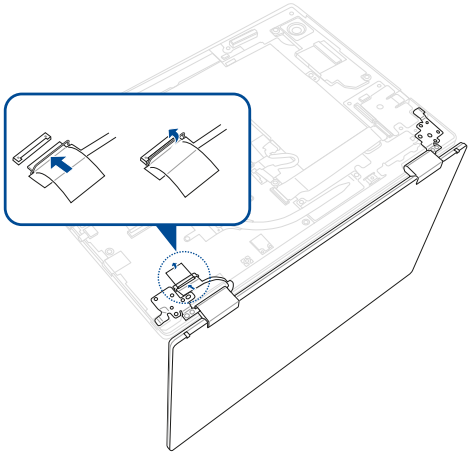
CX1400 model



CX1500 model



U. Reconnect the eDP cable as shown in the illustration below.



Replacing the motherboard

Refer to the following steps when installing the motherboard to your Notebook PC:

IMPORTANT! Purchase your motherboard from authorized retailers of this Notebook PC to ensure maximum compatibility and reliability.

WARNING! Disconnect all the connected peripherals, any telephone or telecommunication lines and power connector (such as external power supply, battery pack, etc.) before removing the compartment cover.

NOTE:

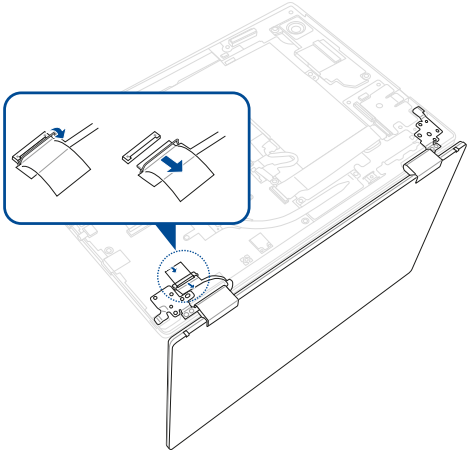
- The appearance of your Notebook PC's bottom view and motherboard may vary per model but the module installation remains the same.
- It is recommended that you install the motherboard under professional supervision. You may also visit an authorized service center for further assistance.

A. Remove the compartment cover and disconnect the battery.

NOTE: For more details, refer to the *Removing the compartment cover* and *Disconnecting the battery* sections in this manual.

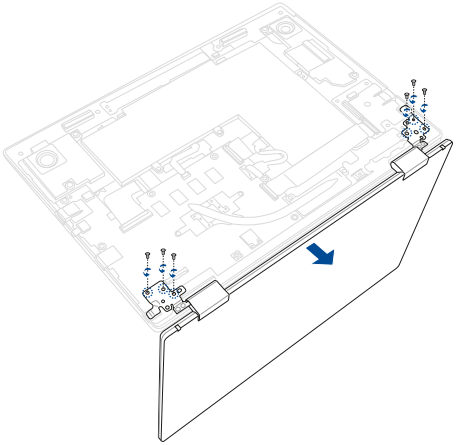
B. Place your Notebook PC in the orientation as shown in the illustration below.

C. Locate and disconnect the eDP cable as shown in the illustration below.

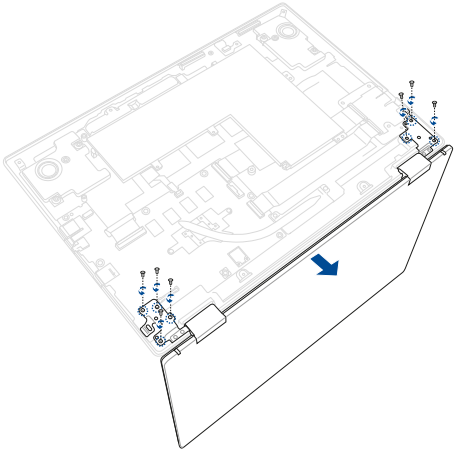


D. Remove the screw(s) from the hinge, and then remove the LCD panel module.

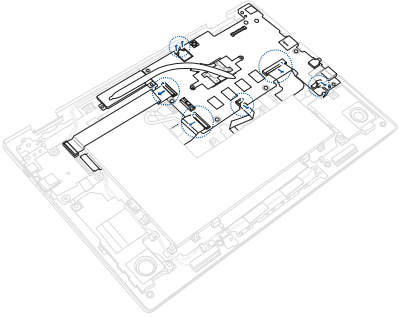
CX1400 model



CX1500 model



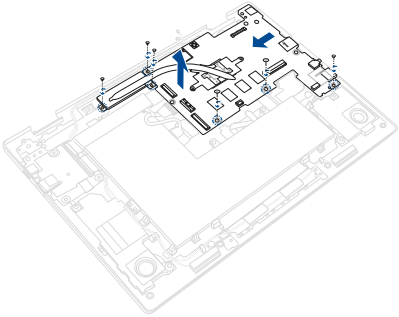
E. Locate and disconnect all the cable(s) as shown in the illustration below.



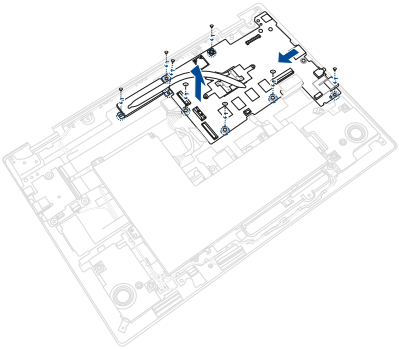
F. Remove the screw(s) from the motherboard.

G. Release the motherboard I/O connectors from the I/O slots on the chassis and then remove the motherboard.

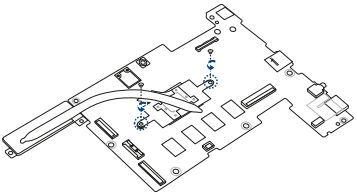
CX1400 model



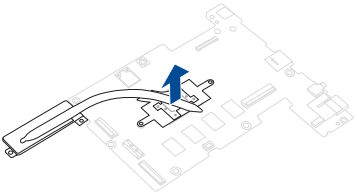
CX1500 model



H. Remove the screw(s) from the cooling radiator.

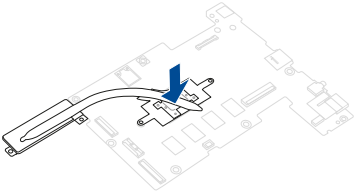


I. Remove the cooling radiator from the motherboard.

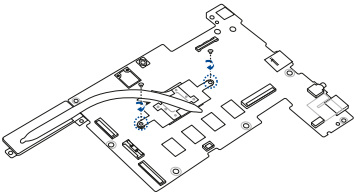


J. Prepare the new motherboard.

K. Align and replace the cooling radiator on the screw holes of the motherboard.



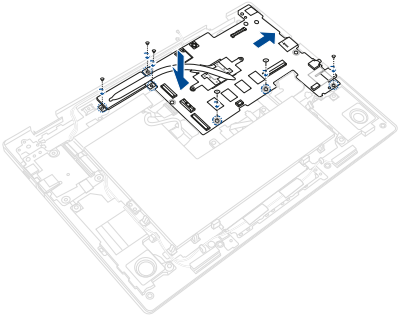
L. Secure the cooling radiator using the screw(s) you removed earlier.



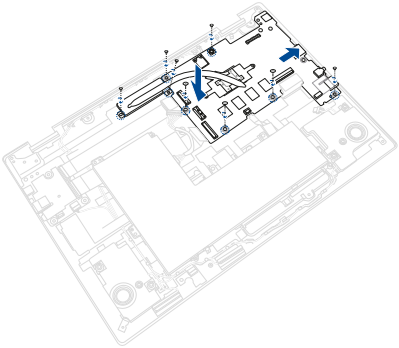
M. Align and insert the motherboard I/O connectors into the I/O ports on the chassis. Then lower the motherboard back in the chassis.

N. Secure the motherboard using the screw(s) you removed earlier.

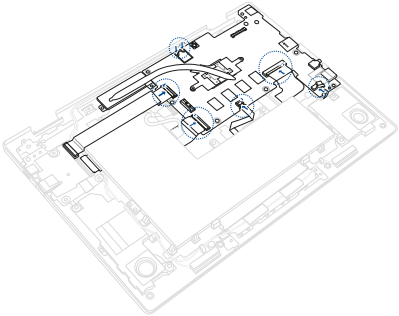
CX1400 model



CX1500 model



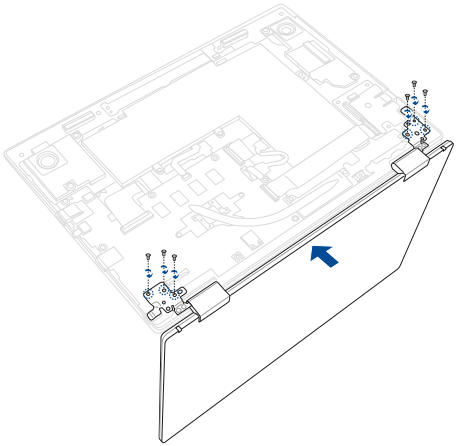
O. Locate and reconnect all the cable(s).



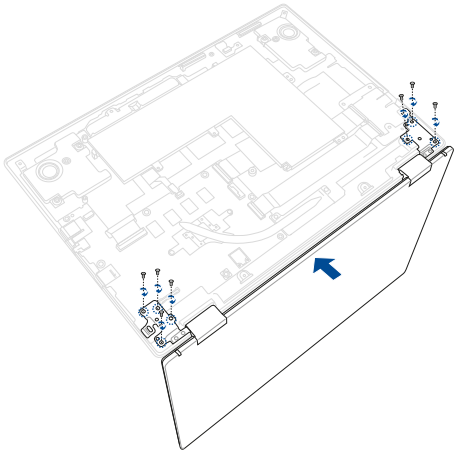
P. In the orientation shown, align and place the hinge of the display module on the screw holes on the chassis.

Q. Secure the LCD panel module using the screw(s) you removed earlier.

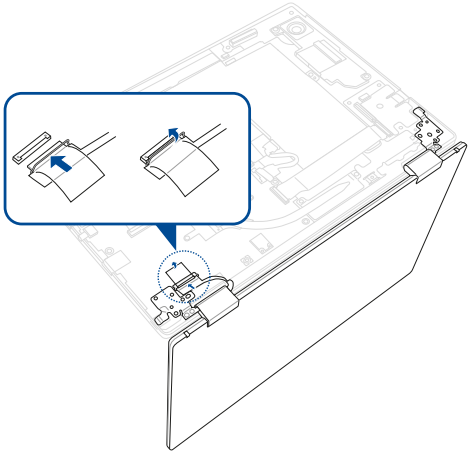
CX1400 model



CX1500 model

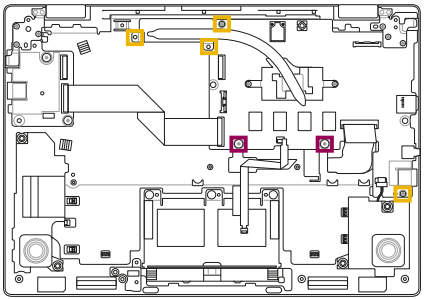


R. Reconnect the eDP cable as shown in the illustration below.



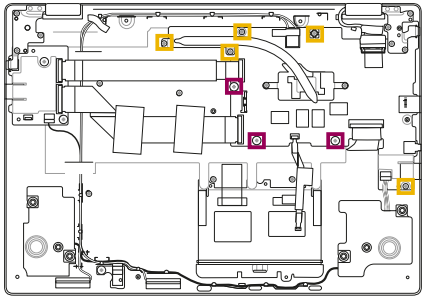
Motherboard screw map

CX1400 model



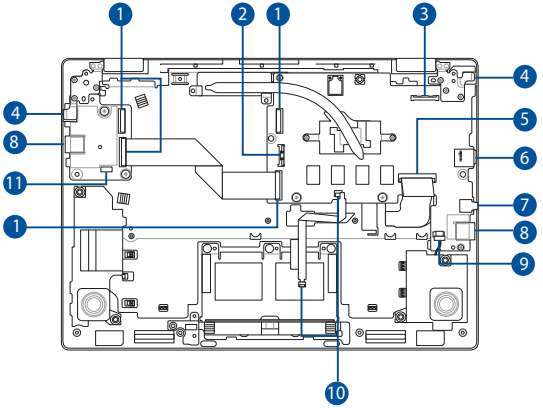
M2.0 X 3.0L (4PCS)
M2.0 X 2.0L (2PCS)

CX1500 model

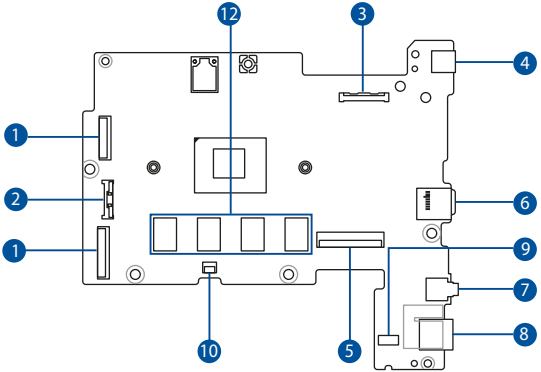


M2.0 X 3.0L (5PCS)
M2.0 X 2.0L (3PCS)

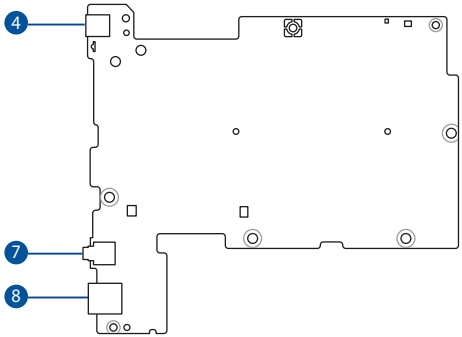
Wiring and connection diagrams



Top View



Bottom View



1. I/O FFC connector
2. Battery power connector
3. Display/Camera connector
4. USB Type-C® connector
5. Keyboard connector
6. SD card connector
7. Headphone/Headset/ Microphone jack
8. USB Type-A connector
9. Speaker connector
10. Touchpad connector
11. Hall sensor connector
12. Random-access memory (RAM)