E18251 First Edition / August 202

IN SEARCH OF INCREDIBLE



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Disclaimer

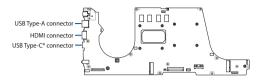
ASUS is not responsible for direct, indirect, intentional or unintentional damages resulting from improper installation and operation.

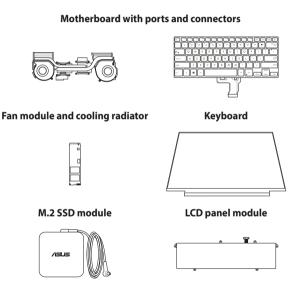
Safety precautions

- 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





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.

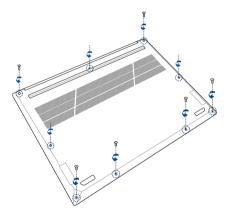
Installation tools



Removing the compartment cover

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

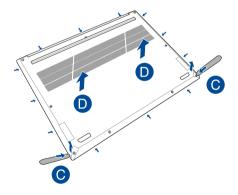
A. Remove the screw(s) from the Notebook PC's compartment cover.



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

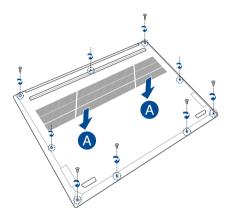
IMPORTANT! Avoid sliding the plastic blade along the side of your Notebook PC to prevent damage.

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



To reattach the compartment cover:

- A. Align and reattach the cover of the compartment.
- B. Secure the cover using the screw(s) you removed earlier.



Disconnecting the battery

A. Remove the compartment cover.

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

B. Disconnect the cable from the battery connector.



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



Installing an M.2 SSD module

Refer to the following steps when installing a compatible M.2 SSD module in your Notebook PC:

IMPORTANT! Purchase your M.2 SSD module 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.

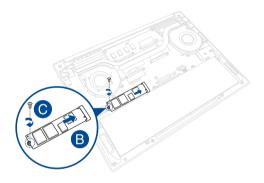
NOTE:

- The appearance of your Notebook PC's bottom view and M.2 SSD module may vary per model but the module installation remains the same
- It is recommended that you install the M.2 SSD module 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. Align and insert the M.2 SSD module into the M.2 connector on the motherboard.
- C. Secure the M.2 SSD module in place using the bundled screw(s).



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.

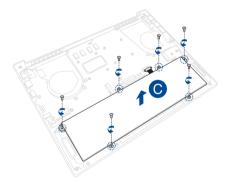
NOTE:

- 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.

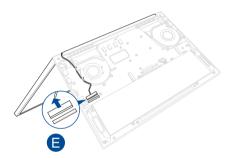
A. Remove the compartment cover and disconnect the battery.

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

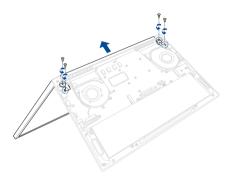
- B. Remove the screw(s) from the battery.
- C. Remove the battery.



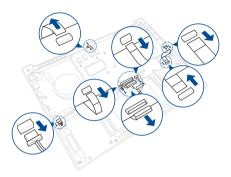
- D. Place your Notebook PC in the orientation as shown in the illustration below.
- Locate and disconnect the display panel connector(s) from the motherboard.



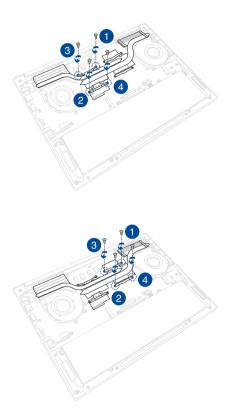
F. Remove the screw(s) from the hinge, and then remove the display panel.



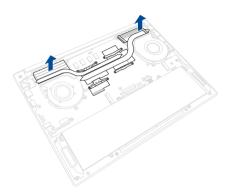
G. Locate and remove all the connector(s) and cable(s) as shown in the illustration below.



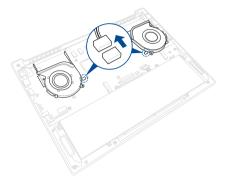
H. Remove the screw(s) one by one in the sequence shown in the illustration below.



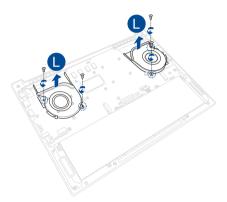
I. Remove the thermal module(s).



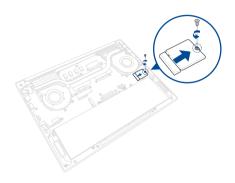
J. Remove the fan module connector(s) from the motherboard.



- K. Remove the screw(s).
- L. Remove the fan module(s).



- M. Remove the screw(s) from the LTE module.
- N. Remove the LTE module from the motherboard.

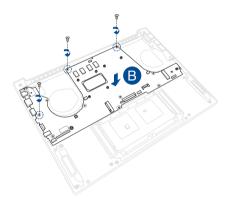


- O. Remove the screw(s) from the motherboard.
- P. Remove the motherboard from the chassis.

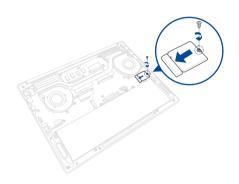


To install the new motherboard:

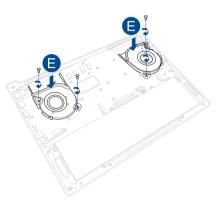
- A. Prepare the new motherboard.
- B. Align and place the motherboard in the chassis.
- C. Secure the motherboard to the chassis with the screw(s) removed earlier.



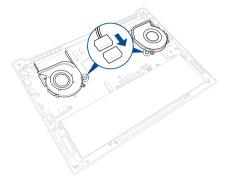
D. Align and insert the LTE module into the LTE connector on the motherboard. Then secure the LTE module in place using the screw(s) you removed earlier.



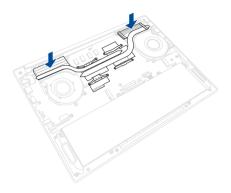
- Align and place the fan module(s) on the screw holes of the motherboard.
- F. Secure the fan module(s) to the motherboard using the screw(s) you removed earlier.



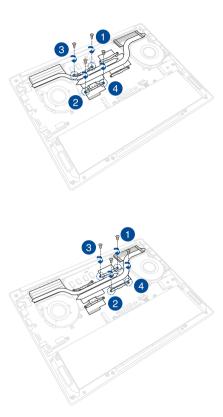
G. Reconnect the fan module connector(s) to the motherboard.



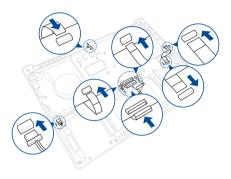
H. Reinstall the thermal module(s).



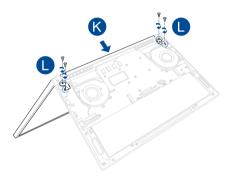
 Secure the screw(s) one by one in the sequence shown in the illustration below.



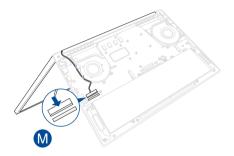
J. Locate and reconnect all the connector(s) and cable(s) removed earlier.



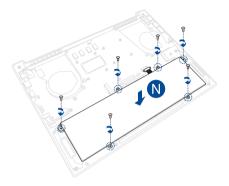
- K. In the orientation shown, align and place the hinge of the display panel on the screw holes of the chassis.
- L. Secure the hinge using the screw(s) you removed earlier.



M. Reconnect the display panel connector(s) to the motherboard.



- N. Reinstall the battery.
- O. Secure the battery using the screw(s) you removed earlier.



Replacing the LCD module

panel leakage.

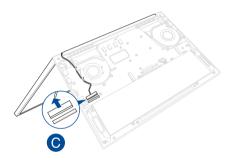
NOTE: The illustrations are for reference only.

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

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.
- Locate and disconnect the display panel connector(s) from the motherboard.



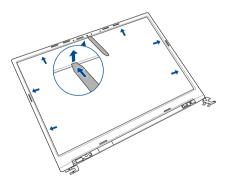
D. Remove the screw(s) from the hinge, and then remove the display panel.



E. Remove the hinge cap.



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

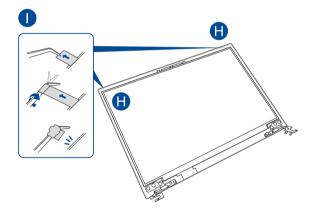


G. Remove the bezel.

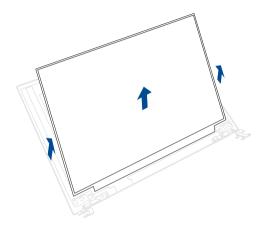


- H. Locate the tip of the adhesive strips.
- Carefully pull the adhesive strips out one part at a time as shown in the illustration below.

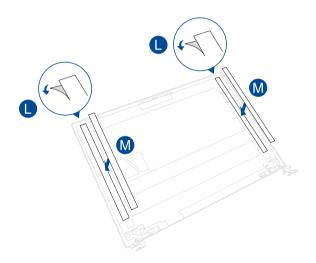
IMPORTANT! Avoid pulling the adhesive strips with excessive force or the adhesive strips might break.



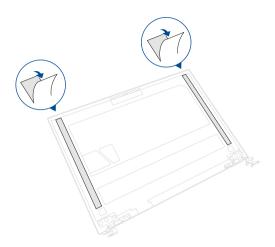
J. Remove the LCD panel module.



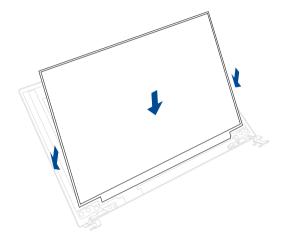
- K. Prepare the new adhesive strips.
- L. Remove the release liner underneath the adhesive strips.
- M. Align and apply the adhesive strips as shown in the illustration below.



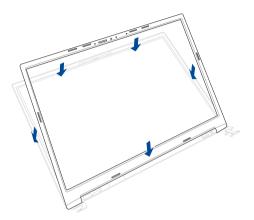
N. Remove the release liner above the adhesive strips.



- O. Prepare the new LCD panel module.
- P. Align and place the new LCD panel module in the orientation as shown in the illustration below.



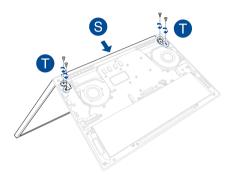
Q. Align and gently reattach the bezel around the display panel.



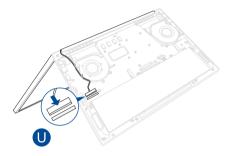
R. Reattach the hinge cap removed earlier.



- S. In the orientation shown, align and place the hinge of the display panel on the screw holes of the chassis.
- T. Secure the hinge using the screw(s) you removed earlier.

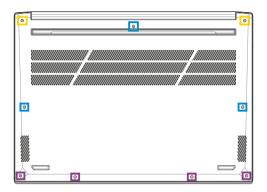


U. Reconnect the display panel connector(s) to the motherboard.



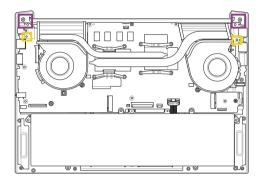
Screw map

Cover screw map



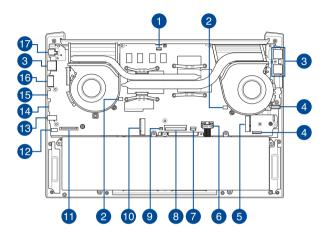
- M2.0 X 4.0L (4PCS)
- M2.0 X (3.5+6)L (3PCS)
- M2.5 X 10.0L (2PCS)

Hinge screw map

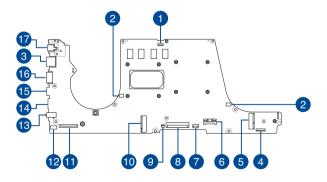


- M2.5 X 5.0L (2PCS)
- M2.0 X 4.5L (2PCS)

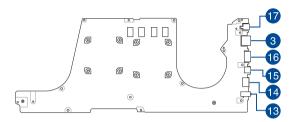
Wiring and connection diagrams



Top View



Bottom View



- 1. Power button connector
- 2. Fan connector
- 3. USB Type-A connector
- 4. I/O FFC connector
- 5. WLAN connector
- 6. Battery connector
- 7. Touchpad connector
- 8. Keyboard connector
- 9. Backlight connector

- 10. SSD connector
- 11. CMOS/Display connector
- 12. Speaker connector
- 13. Headphone/Headset/ Microphone jack
- 14. MicroSD card connector
- 15. USB Type-C® connector
- 16. HDMI connector
- 17. Power supply connector