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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

RAM module

SSD module

Battery and power connector

Display panel module
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

<table>
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<th>Tool</th>
<th>Image</th>
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<tr>
<td>Screwdriver</td>
<td><img src="image" alt="Screwdriver" /></td>
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<tr>
<td>Plastic blade</td>
<td><img src="image" alt="Plastic blade" /></td>
</tr>
<tr>
<td>Tweezers</td>
<td><img src="image" alt="Tweezers" /></td>
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Removing the bottom cover

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

A. Remove the screw(s) from the Notebook PC’s bottom cover.

B. Loosen the Pop-open Screw without removing the screw from the cover.

C. Slightly lift the cover to reveal the compartment without removing the cover completely.
D. Locate and disconnect the cable(s) as shown in the illustration.

NOTE: If you accidentally pull out the cable(s) from the back of the bottom cover, refer to the next page to reconnect the cable(s).

E. Pull out the bottom cover and remove it completely from your Notebook PC.
To reconnect the cable(s) to the back of the bottom cover, follow the steps below to remove the circuit board(s) first, then reconnect the cable(s) before reinstalling the circuit board(s).
To reattach the bottom cover:

A. Align and reattach the bottom cover.
B. Secure the cover using the screw(s) you removed earlier.
C. Tighten the Pop-open Screw.
Cover screw map

- M2.5 X 12L (7PCS)
- M2.5 X 6L (3PCS)
- M2.5 X 7L (1PC Pop-open Screw)
Disconnecting the battery

A. Remove the bottom cover.

NOTE: For more details, refer to the Removing the bottom 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 bottom cover.
Installing a RAM module

Upgrade the memory capacity of your Notebook PC by installing a RAM (Random Access Memory) module in the memory module compartment. The following steps show you how to install a RAM module into your Notebook PC:

**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 bottom cover.

**IMPORTANT!** Visit an authorized service center or retailer for information on RAM module upgrades for your Notebook PC. Purchase RAM modules from authorized retailers of this Notebook PC to ensure maximum compatibility and reliability.

**NOTE:**

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

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

B. Align and insert the RAM module into the RAM module slot.

C. Push down the RAM module until it clicks in place.
Installing an M.2 card

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

**IMPORTANT!** Purchase your M.2 card 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 bottom cover.

**NOTE:**

- The appearance of your Notebook PC’s bottom view and M.2 card may vary per model but the module installation remains the same.

- It is recommended that you install the M.2 card under professional supervision. You may also visit an authorized service center for further assistance.

- The M.2 2280 slot does not support M.2 SATA SSD.
A. Remove the bottom cover.

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

B. Align and insert the M.2 card into the module slot.

C. Secure the M.2 card in place using the bundled screw(s).
Wiring and connection diagrams
1. USB Type-C® connector
2. HDMI connector
3. LAN connector
4. Power supply connector
5. USB Type-A Connector
6. Audio connector
7. Hi speaker connector
8. Touchpad connector
9. Keyboard backlight connector (per key)
10. Keyboard membrane connector
11. Battery connector
12. Indicator PCB connector
13. LED DR connector
14. Main SSD connector
15. NFC connector
16. Second SSD connector
17. Wi-Fi module connector
18. Fan R connector
19. Memory module slot
20. Fan L connector
21. LVDS connector
22. LED DL connector
23. Camera connector