E17965
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G SERIES

GAMING NOTEBOOK PC

SERVICE MANUAL

MORE INFO:

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Disclaimer

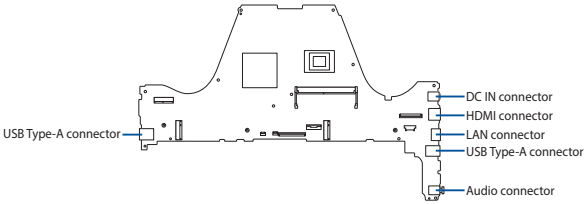
ASUS is not responsible for direct, indirect, intentional or unintentional damages resulting from improper installation and operation.

Safety precautions

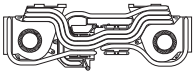
- Keep liquids or moisture away from your Notebook PC before installing or removing any components.
- Ensure to place your Notebook PC on a stable surface before installing or removing any components.
- Detach the clip or flap before removing the signal cables to prevent damage.
- Disconnect the power 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

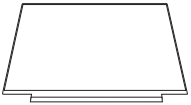


Fan/Cooling radiator

Keyboard

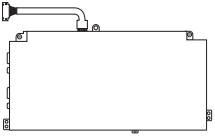
RAM module

SSD module



LCD panel module

Power adapter



Battery and power connector

Installation tools

Screwdriver

Plastic blade

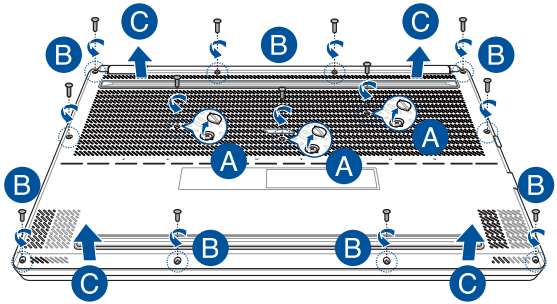
Tweezers

Removing the compartment cover

A. Remove the rubber cover(s) to expose the screw(s) underneath.

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

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

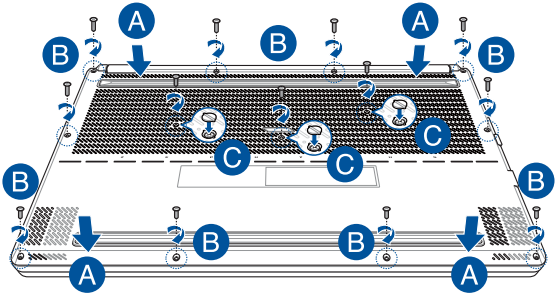


To reattach the compartment cover:

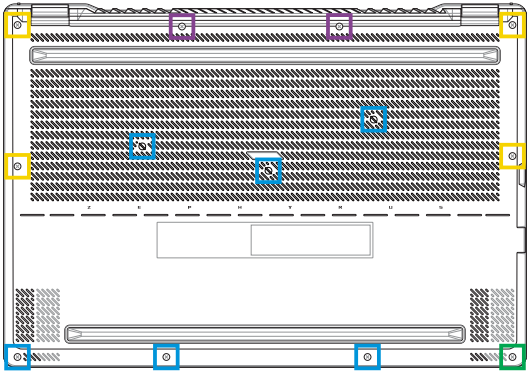
A. Align and reattach the cover of the compartment.

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

C. Put the rubber cover(s) in place.



Cover screw map



- M2 X 11.5 (2PCS)
- M2 X 11 (4PCS)
- M2 X 8 (6PCS)
- M2.5 X 8 (1PC)

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 compartment 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:

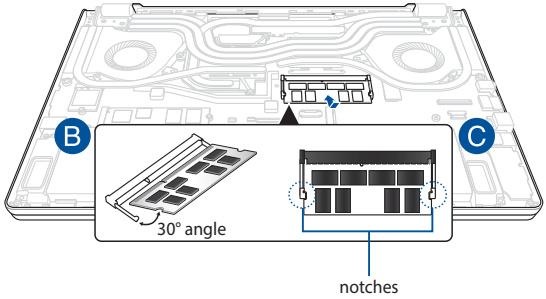
- The appearance of your Notebook PC's bottom view and RAM module may vary per model but the RAM module installation remains the same.
- It is recommended that you install the RAM module under professional supervision. You may also visit an authorized service center for further assistance.

A. Remove the compartment cover.

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

NOTE:

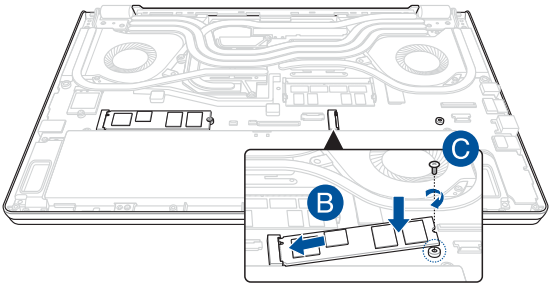
- The appearance of your Notebook PC's bottom view and M.2 card may vary per model but the module installation remains the same.
- It is recommended that you install the M.2 card under professional supervision. You may also visit an authorized service center for further assistance.
- The M.2 2280 slot does not support M.2 SATA SSD.

A. Remove the compartment cover.

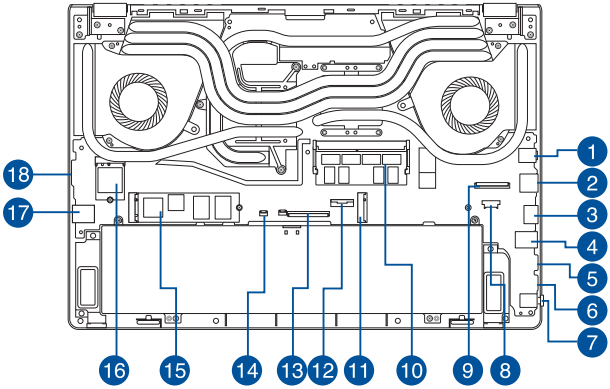
NOTE: For more details, refer to the *Removing the compartment cover* section in this manual.

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

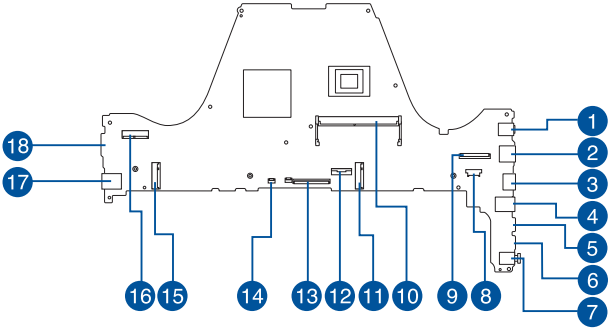
C. Secure the M.2 card in place using the bundled screw(s).



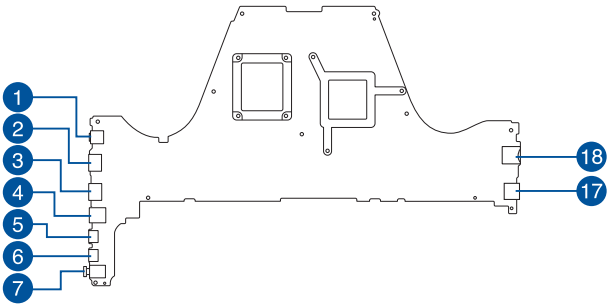
Wiring and connection diagrams



Top View



Bottom View



1. DC IN connector
2. HDMI connector
3. LAN connector
4. USB Type-A connector
5. USB Type-C connector
6. USB Type-C connector
7. Audio connector
8. Speaker connector
9. EDP connector
10. DIMM socket
11. SSD connector
12. Battery connector
13. Keyboard connector
14. Keyboard backlight connector
15. SSD connector
16. WLAN connector
17. USB Type-A connector
18. MicroSD connector