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Customer Self Repair (CSR)

Maintenance and Service Guide

ASUS

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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.
- 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. Be sure to thoroughly to read and follow the instructions in the manual.
- To avoid Electrostatic Discharge (ESD) damage the electric components inside your computer, before handling components, use a grounded wrist strap or touch a safely grounded object to prevent electric products damaged by the electrostatic discharge. Please refer to Electrostatic Discharge (ESD) Protection Notes.
- Keep liquids or moisture away from your Notebook PC to avoid short circuiting.
- Hold components by the edges to avoid touching the Integrated Circuits (ICs).
- Before re-connecting the AC power, ensure all components are properly installed.
- Reduce the risk of fire or explosion by avoiding incompatible power adapters or batteries. Use only certified power adapters or batteries supplied by ASUS or authorized retailers.
- Ensure the correct screw models are re-installed to your Notebook PC to prevent damage.

Protection of Stored Data

For Your important data, please make periodic back-up copies of all the data stored on the hard disk or other storage devices as a precaution against possible failures, alteration, or loss of the data.

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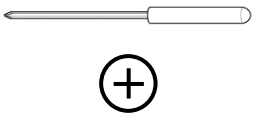
Installation tools



#1 Screwdriver

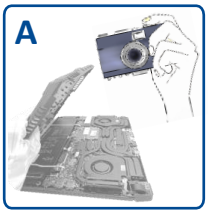
Non-conductive pry tool

Tweezers

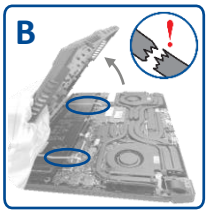
Anti-static gloves

Before disassembly

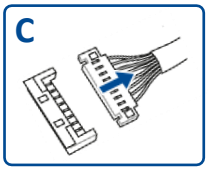
A. Before your disassembly, we strongly recommend that you prepare a smartphone or other handheld camera. During disassembly, use your camera to take photos to help you remember the order of assembly and location of parts.



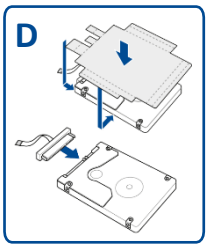
B. When lifting the base cover off, slowly and carefully open so the angle is as small as possible. To avoid damaging the cables, please confirm they are disconnected before opening the base cover completely.



C. After you open the base cover, be sure to disconnect the battery cable first.



D. When replacing components, if any materials, cables, tapes and others were touched or moved, please return it to its original location before proceeding.



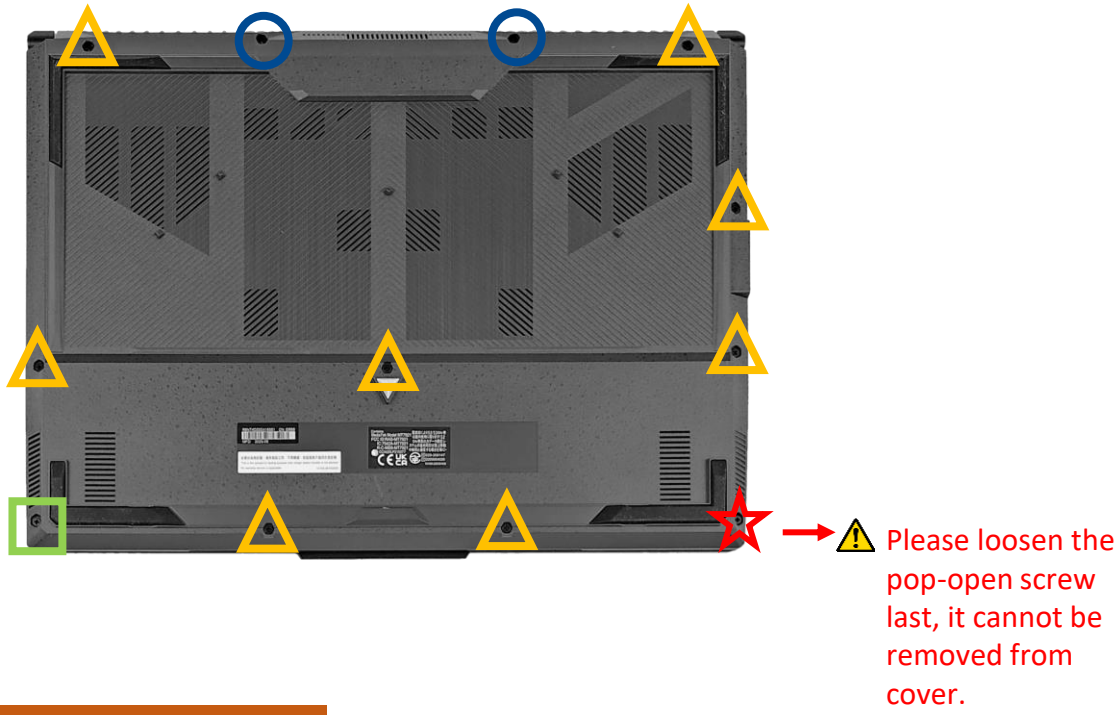
E. Avoid using too much force when fastening screws to prevent hardware damage.

Removing the base cover

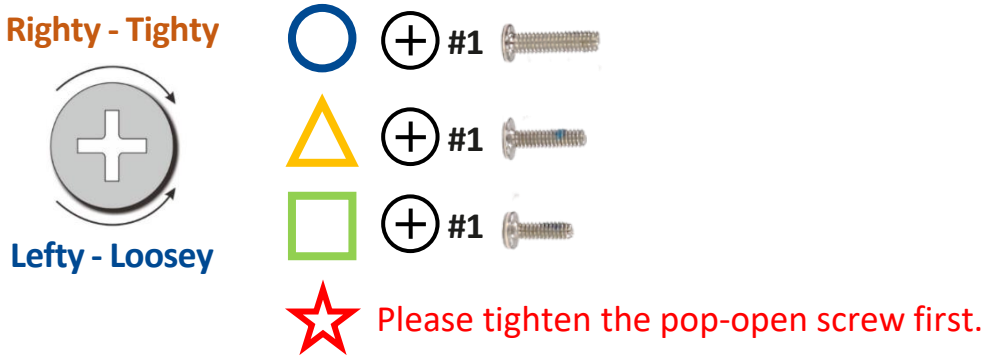
Disassembly Notice

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

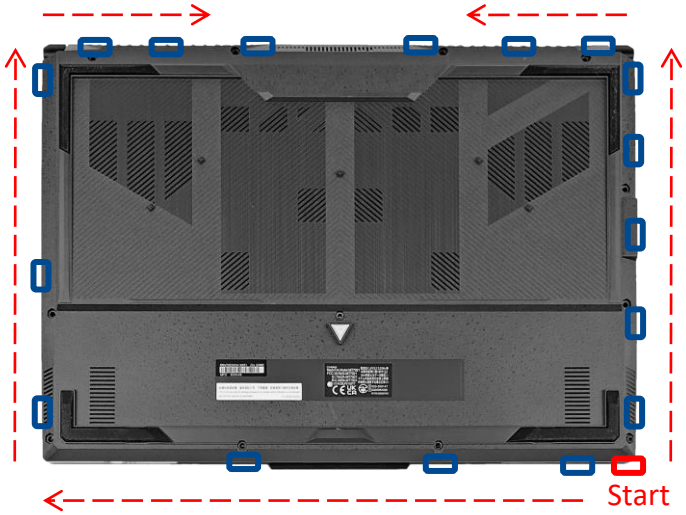
A. Remove the screw(s) from the Notebook PC's base cover.



Assembly Notice

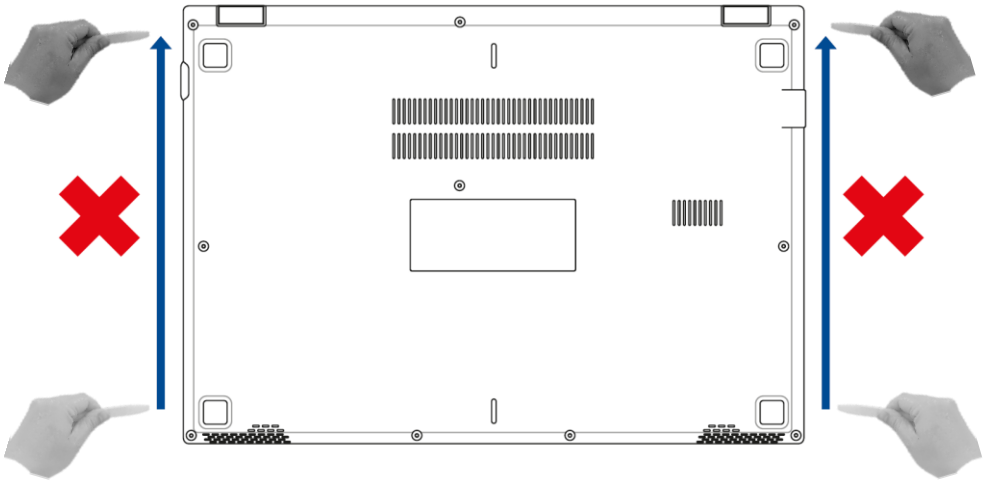


B. Use the non-conductive pry tool to lift open the indicated area of the base cover as shown in the illustration.

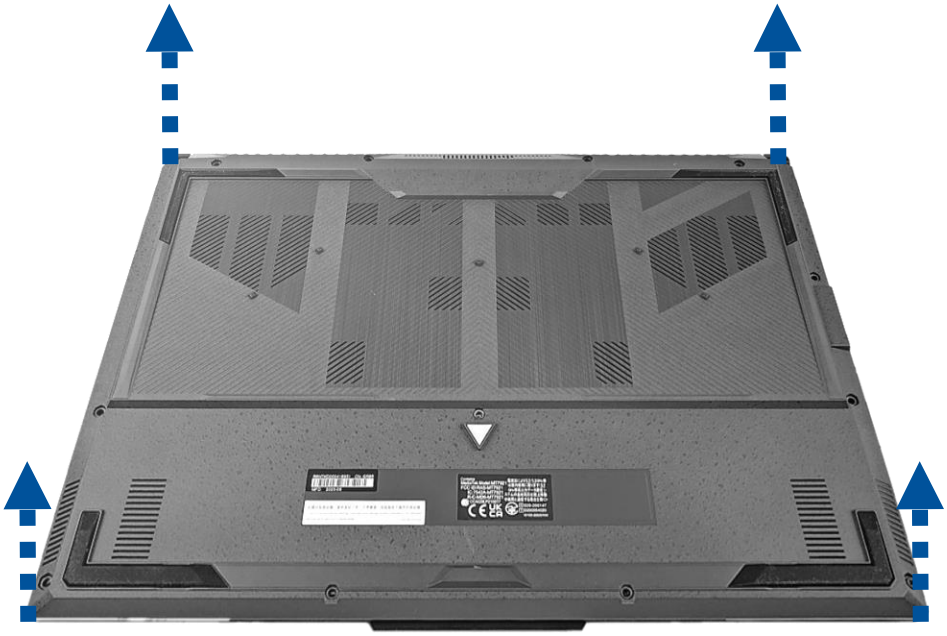


Disassembly steps:

IMPORTANT! Avoid sliding the non-conductive pry tool along the side of your Notebook PC to prevent damage.



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



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 base cover.

IMPORTANT! Visit an authorized service center or retailer for information on RAM module upgrades for your Notebook PC. Only 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.

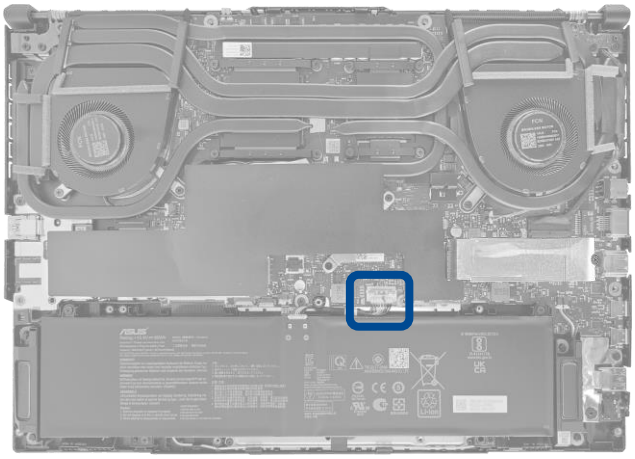
Disassembly Notice

A. Before handling components, wear anti-static gloves to avoid damaging them due to static electricity.

B. Remove the base cover.

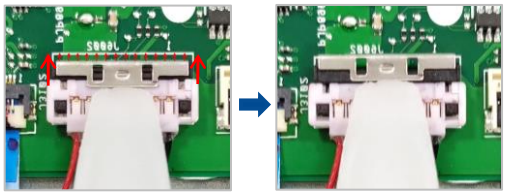
NOTE : For more details, refer to the removing the base cover section in this manual.

C. Disconnect the cable from the battery connector.



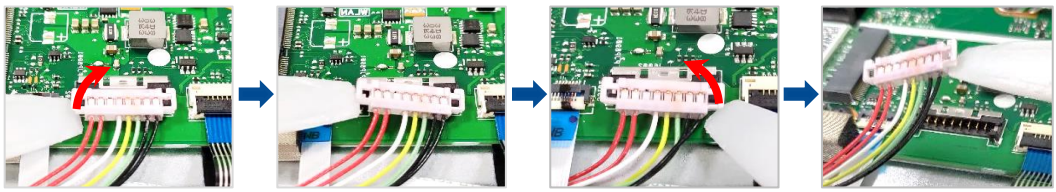
Disassembly steps:

1. Use the non-conductive pry tool to push iron sheet.



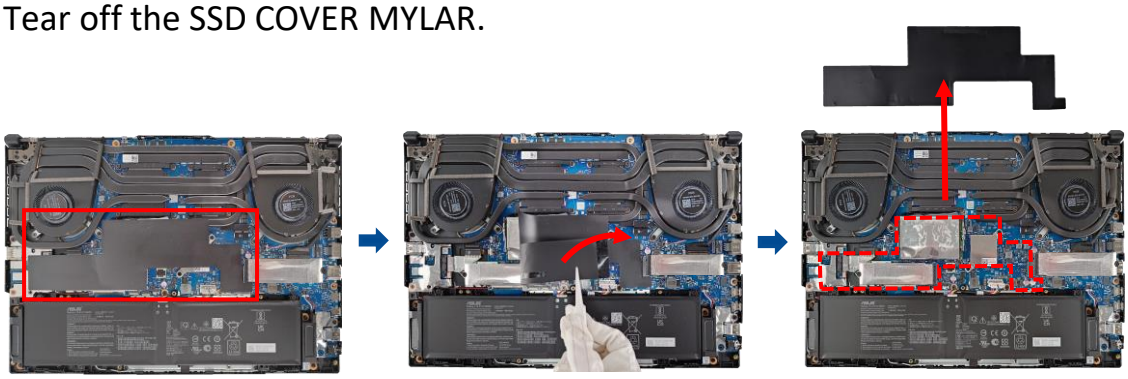
2. Use the non-conductive pry tool to disconnect battery connector.

NOTE : Please disconnect the red cable side first.



Disassembly Notice

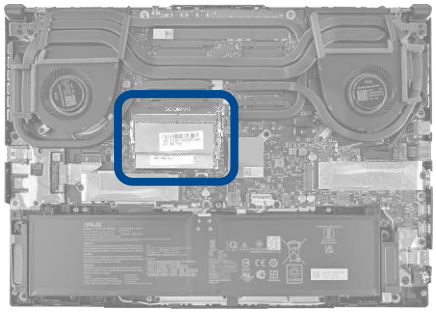
D. Tear off the SSD COVER MYLAR.



E. Peel the DIMM AL FOIL MYLAR downward.

F. Remove the RAM module. (This laptop has two memory slots.)

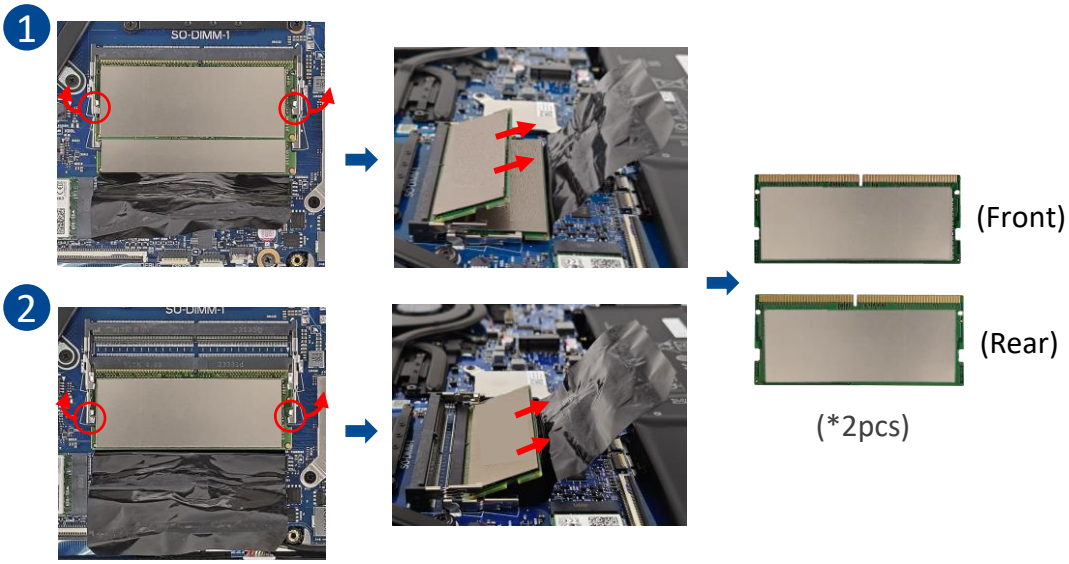
NOTE : If there is material pasted on the RAM, when you replace RAM, please paste the material on the new RAM. (Not included specification label.)



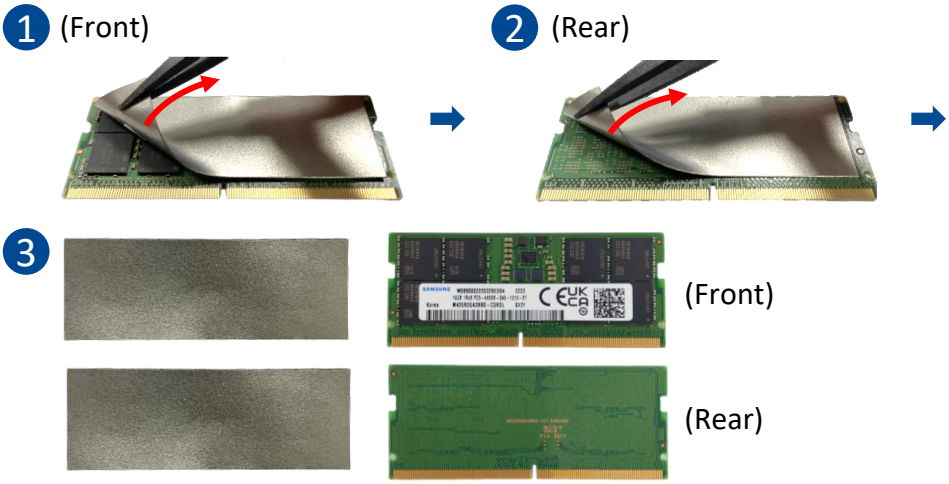
Disassembly Notice

Disassembly steps:

1. Unlock and remove the RAM module.



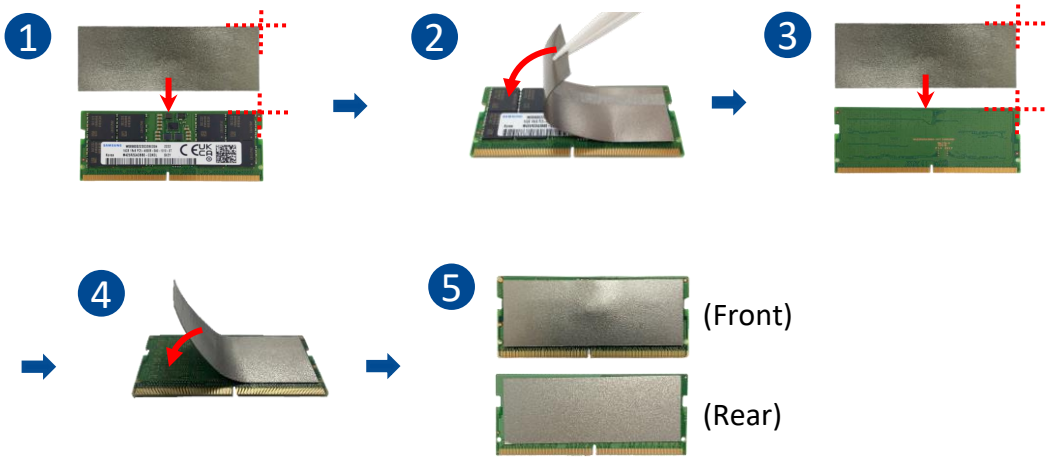
2. Tear off the two ABSORBERS from RAM module front and back side.
   Please keep these parts, it will be reused for new RAM installation.



G. Please check and remove the spec label from the ABSORBER, and paste it back to the old RAM.

Assembly Notice

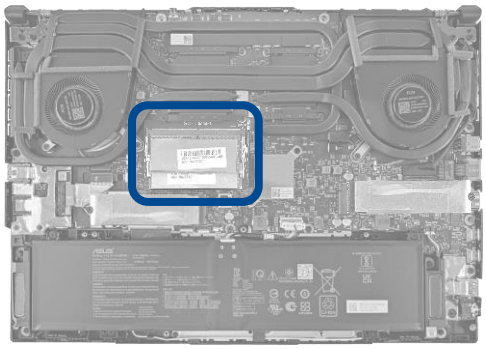
H. Paste the two ABSORBERS on the new RAM front and back side.

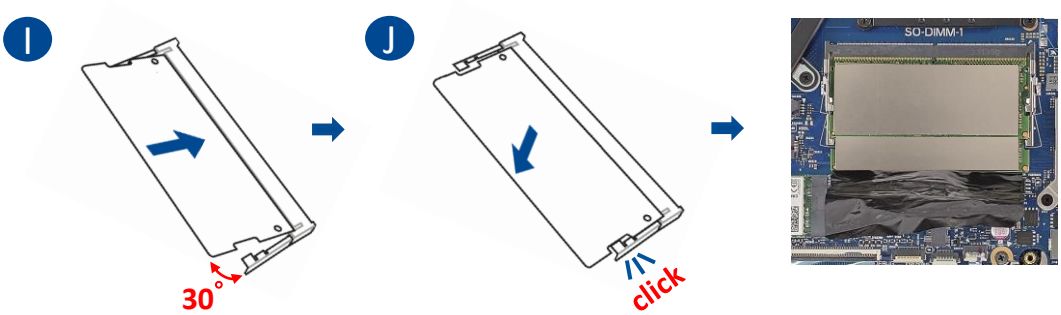


I. Align and insert the new RAM module at 30° into the memory slot.

J. Once properly inserted, push down the RAM module until it clicks in place.

(This laptop has two memory slots.)



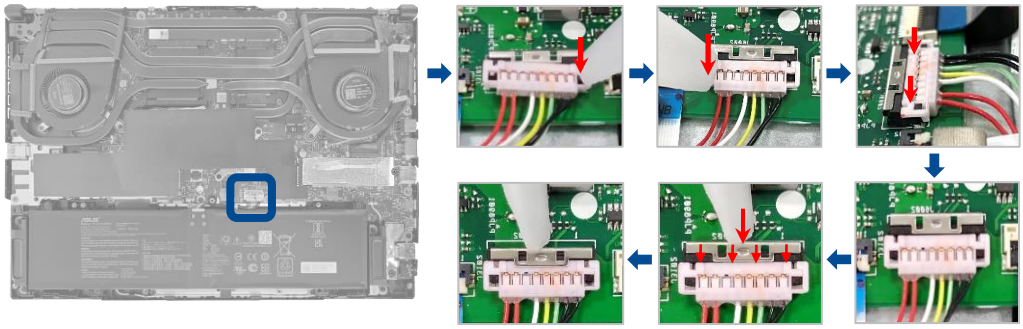


Assembly Notice

K. Paste the DIMM AL FOIL MYLAR*1pc back.

L. Paste the SSD COVER MYLAR*1pc on the motherboard.

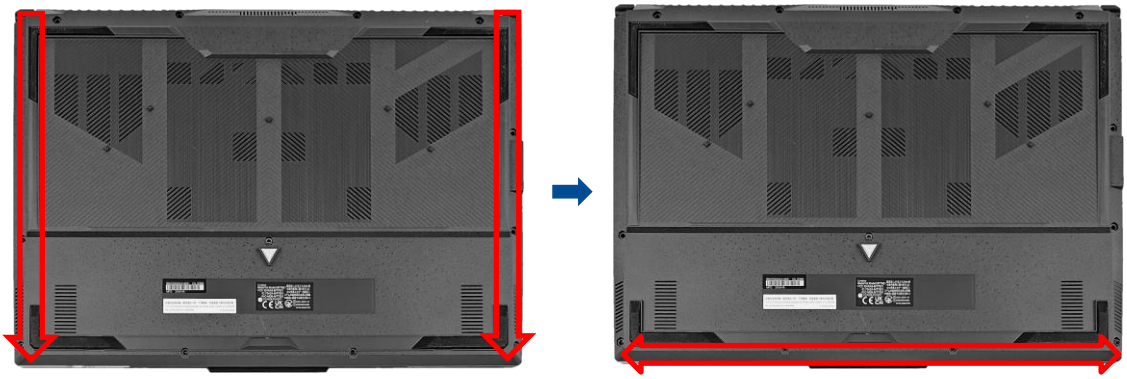
M. Please follow the below steps to attach the battery connector.



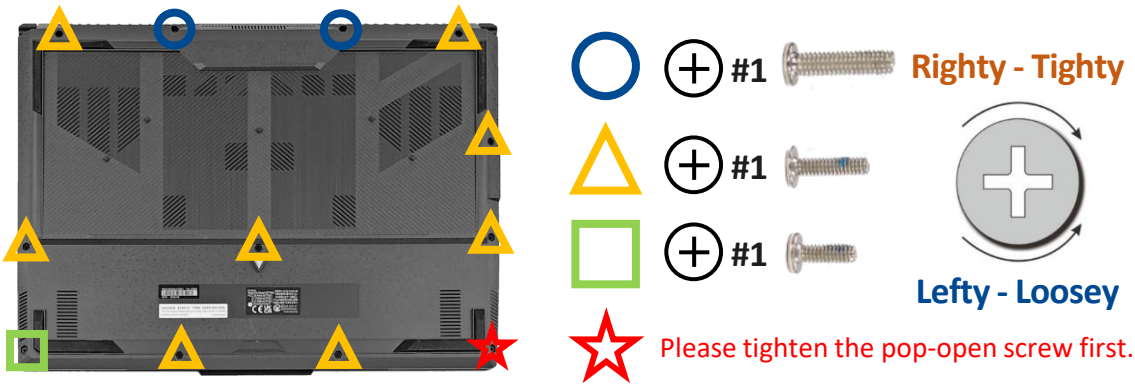
Assembly Notice

N. Install the base cover at a slight tilt at upper side first, and then press the upper side of base cover to fix from right to left.

O. Put the base cover down slowly, and then press left and right side of base cover to fix, and press lower side of base cover to fix.



P. Secure the base cover in place using the screws.



Installing an M.2 card (SSD)

Refer to the following steps when installing a compatible M.2 card (SSD) 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 base 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.

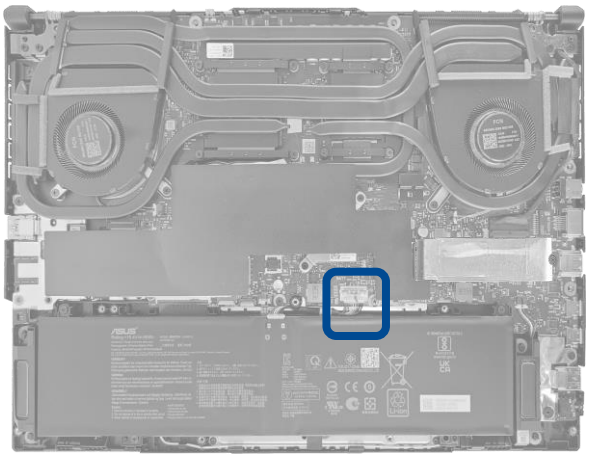
Disassembly Notice

A. Before handling components, wear anti-static gloves to avoid damaging them due to static electricity.

B. Remove the base cover.

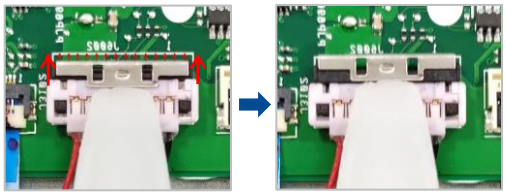
NOTE : For more details, refer to the removing the base cover section in this manual.

C. Disconnect the cable from the battery connector.



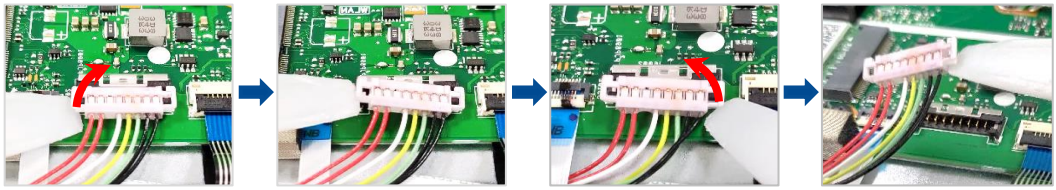
Disassembly steps:

1. Use the non-conductive pry tool to push iron sheet.

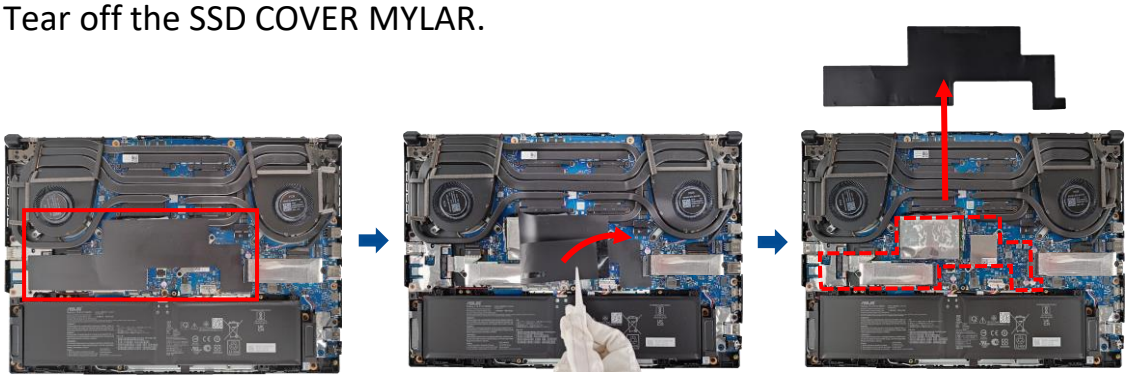


2. Use the non-conductive pry tool to disconnect battery connector.

NOTE : Please disconnect the red cable side first.

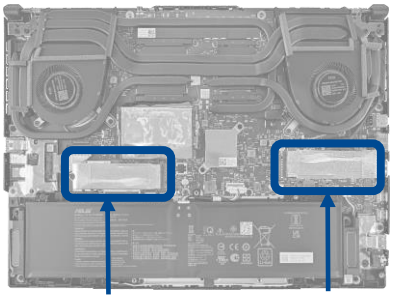


D. Tear off the SSD COVER MYLAR.



E. Remove the M.2 card (SSD).

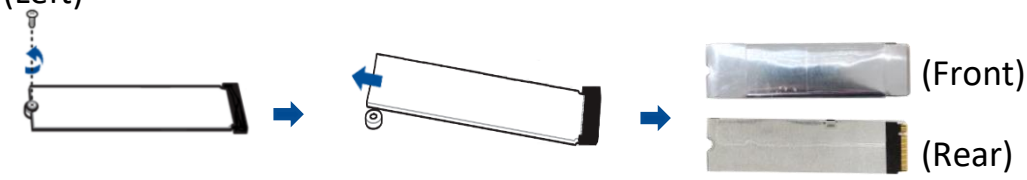
NOTE : If there is material pasted on the M.2 card (SSD), when you replace M.2 card (SSD), please paste the material on the new M.2 card (SSD). (Not included specification label.)



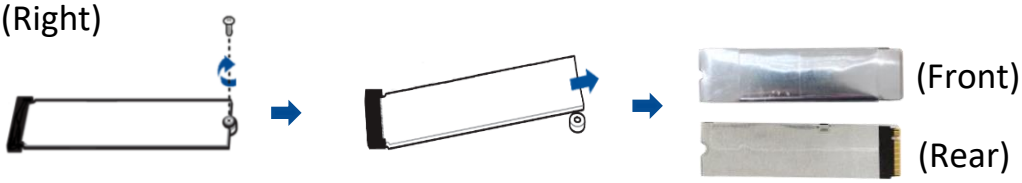
Disassembly steps:

1. Remove the screw*1pc and M.2 card (SSD).

(Left)



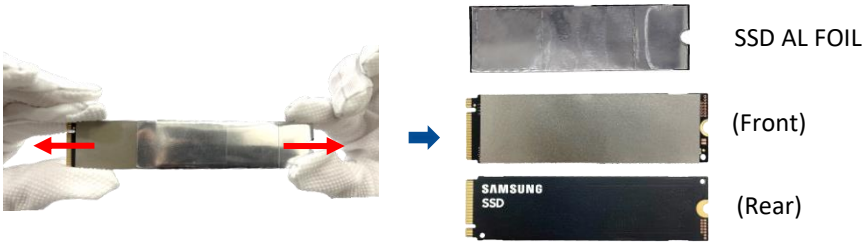
(Right)



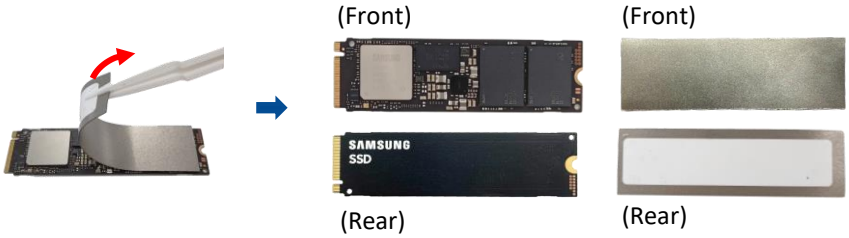
Disassembly Notice

Disassembly steps:

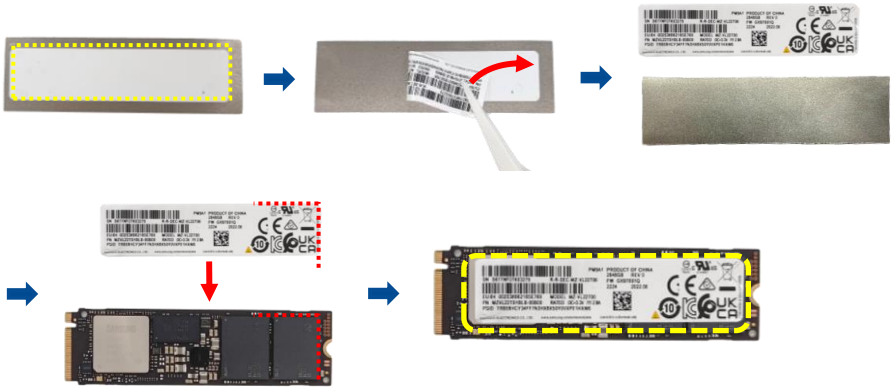
2. Remove the SSD AL FOIL from M.2 card (SSD). Please keep these parts, it will be reused for new SSD installation.



3. Tear off the ABSORBERS from M.2 card (SSD). Please keep this part, it will be reused for new SSD installation.

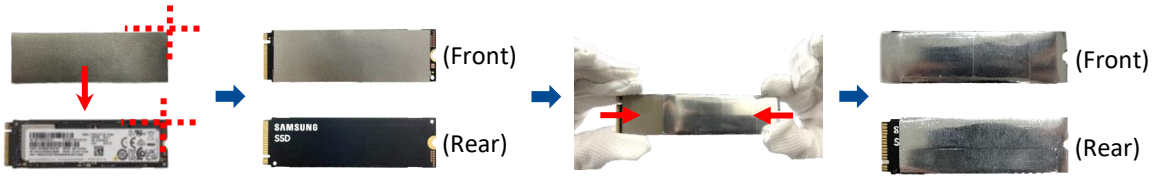


F. Please check and remove the spec label from the ABSORBER, and paste it back to the old SSD.



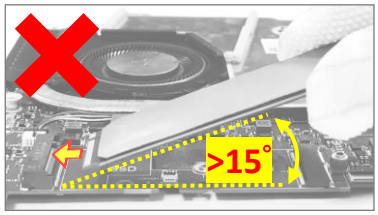
Assembly Notice

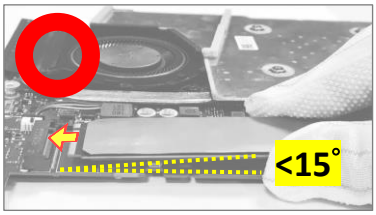
G. Paste the ABSORBER on the new M.2 card (SSD), then assembly AL FOIL*1pc.

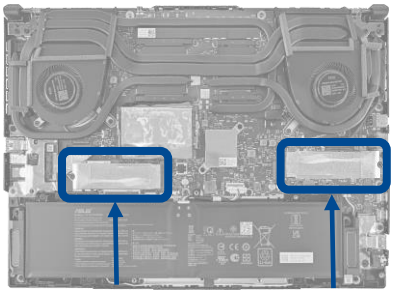


H. Assembly the M.2 card (SSD).

NOTE : When installing the new M.2 card (SSD), please keep the new M.2 card (SSD) less then 15 degrees with motherboard, and then insert the new M.2 card (SSD).



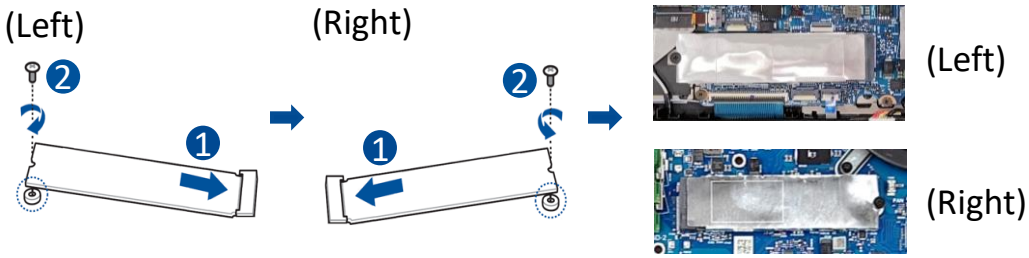




(Left) (Right)

Assembly steps:

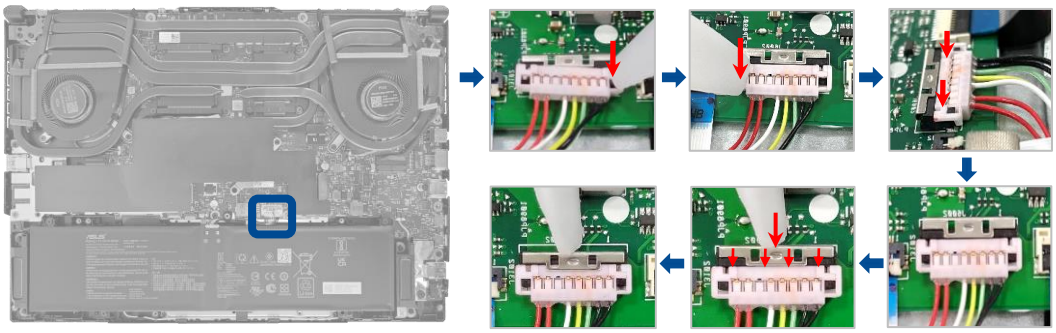
1. Align and insert the new M.2 card into the module slot.
2. Secure the M.2 card in place by fastening the screw.



Assembly Notice

I. Paste the DIMM COVER MYLAR*1pc on the motherboard.

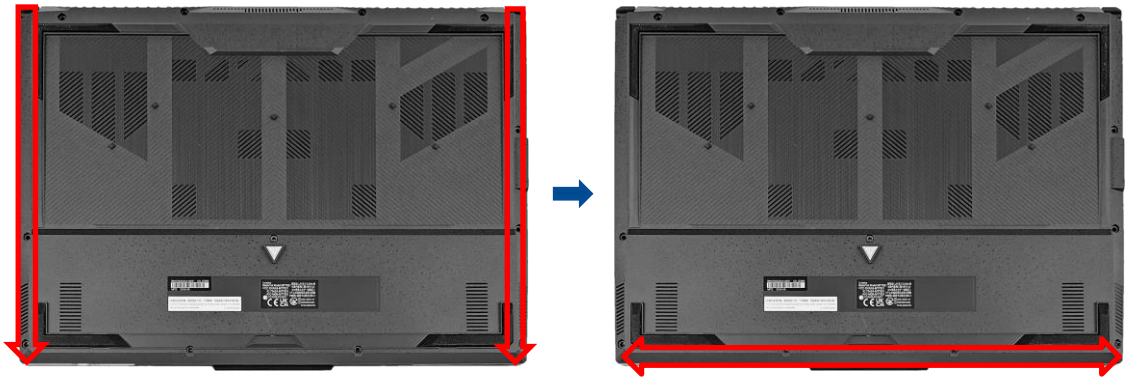
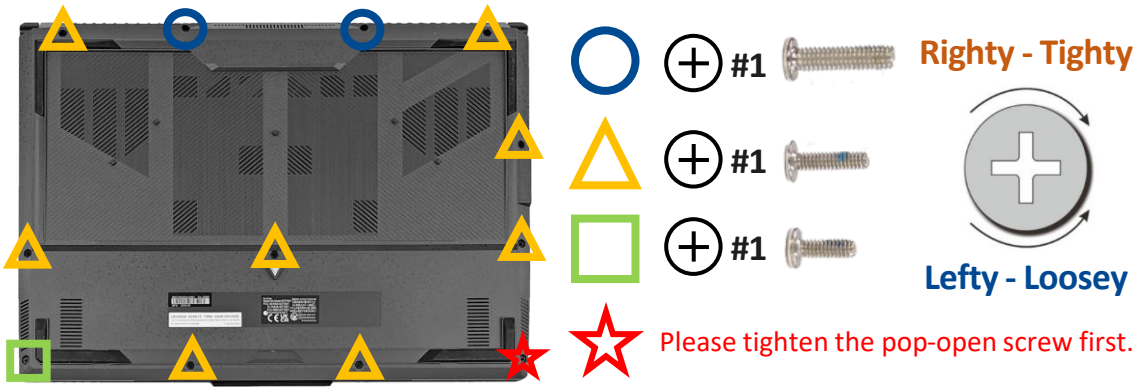
J. Please follow the below steps to attach the battery connector.



K. Install the base cover at a slight tilt at upper side first, and then press the upper side of base cover to fix from right to left.

Assembly Notice

L. Put the base cover down slowly, and then press left and right side of base cover to fix, and press lower side of base cover to fix.



M. Secure the base cover in place using the screws.