

SAMSUNG

REPAIR GUIDE

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www.samsung.com

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Usage Notices

All functionality, features, specifications, and other device information provided in this document, including but not limited to, benefits, design, pricing, components, performance, availability, and capabilities of the device are subject to change without notice. Samsung reserves the right to alter this document or the device described herein at any time, without obligation to provide notification of such changes.

Precautions for Repair

Samsung is not liable for any damage or defect determined to be caused by repair by a non-authorized carrier, self repair or non-professional repair of the device. Samsung is not liable for any resulting damage to the device, or any injury or other device safety issue caused by any attempt to repair the device which does not follow these repair and maintenance instructions.

Any damage to the device or defect caused by an attempt to repair the device by any person other than a Samsung certified carrier will not be covered by the warranty.

- Use only demagnetised tools that are specifically designed for small electronic repairs, as most electronic parts are sensitive to electromagnetic forces.
- Use only high quality screwdrivers when servicing devices. Low quality screwdrivers can easily damage the heads of screws.
- Always use genuine replacement parts. Third-party replacement parts may not function properly and could cause a fire or injury.
- If you need to access the failure data of your device or need to get a more detailed diagnosis, visit a Samsung Service Centre.
- If you need to replace unsold parts, visit a Samsung Service Centre and receive further instruction.
- Before conducting repairs, remember to make backup copies of all important data stored in the device.
- Make sure to wear the appropriate safety equipment before carrying out repairs. Samsung is not responsible for injuries that may occur because of not wearing the proper safety equipment. Refer to [Tools for Disassembly and Assembly](#) for a list of tools that you will need for assembling and disassembling the device.
- Repair the device in a safe place.

- Before repairing the device, make sure the device is turned off. To turn off the device, select the Start button () and select  → **Shut down**.
- If the device is damaged, emits smoke, or if you smell something burning, stop using the device immediately and contact Samsung.
- It is recommended to use safety equipment such as glasses, gloves, and a mask when repairing the device.
- Be careful not to damage the device when removing the Case rear.
- Before assembly, ensure that there are no screws or foreign objects around the battery.
- During assembly, check if there are any abnormalities before reattaching the Case rear, and be careful not to damage the battery by hitting or denting it. If the battery is damaged, visit a Samsung Service Centre.
- Before repairing your device, make sure its battery is fully discharged.
- Visit www.samsung.com to view the device information, related material, and safety information.

ESD (Electrostatic Discharge) Precautions

It is the sudden flow of electricity between two electrically charged objects caused by contact, an electrical short, or dielectric breakdown. ESD can cause negative effects on mobile devices, especially electrical parts.

- It is recommended to use ESD safety (Anti-static) equipment such as an anti static wrist strap and gloves, and an ESD safe mat when repairing the device.
- Increase the airflow to the work area to decrease the chance of accidental static electricity discharges, as the potential for static electricity discharge may be increased in low-humidity environments, such as air-conditioned rooms.

Instructional Icons

-  **Warning:** situations that could cause injury to yourself or others
-  **Caution:** situations that could cause damage to your device or other equipment
-  **Notice:** notes, usage tips, or additional information

Software Update

Samsung Device Care

You can back up and restore your computer's data or perform a factory data reset. You can also update apps and drivers on your computer.

Backing up and restoring data

- 1 Select the Start button () → **All apps** → **Samsung Device Care**.
- 2 Select **Backup and restore** → **Back up now**.
To restore your computer, select **Restore** of the backup image you want to restore.

 Back up important data regularly before the computer has a problem.

Updating apps and drivers

- 1 Select the Start button () → **All apps** → **Samsung Device Care**.
 - 2 Select **Updates**.
Update apps and drivers regularly to keep your computer running smoothly and maintain its performance.
-  • To check for available updates, the computer must be connected to the internet.
• Only apps that have been installed with this app can be updated.

Resetting the computer

- 1 Select the Start button () → **All apps** → **Samsung Device Care**.
 - 2 Select **Factory reset** and select **Start factory reset**.
-  Back up apps and personal data to an external storage device before performing the computer factory reset.

Windows recovery feature

If the **Samsung Device Care** app is not supported by the computer, reinstall Windows using the recovery feature of Windows.

 Reinstalling Windows will erase all data saved on the computer. Back up apps and personal data to an external storage device before reinstalling Windows.

1 Select the Start button () → **Settings** → **System** → **Recovery**.

2 Select **Reset PC**.

3 Select **Keep my files** or **Remove everything**.

 After the system is recovered, select the Start button () → **All apps** → **Microsoft Store** () to install the required Samsung apps.

Q&A

When experiencing problems with the computer, try these solutions.

Windows

How can I uninstall an app?

1 Select the Start button () → **Settings** → **Apps** → **Installed apps**.

2 On the list, select **•••** next to the app you want to delete, and then select **Uninstall**.

Samsung Device Care

What is a Recovery Area?

The computer has an additional partition for restoring data or saving backup files (only for models with the **Samsung Device Care** app). This partition is called a Recovery Area and it includes a recovery image comprised of the operating system and apps.

Why is the capacity representation of the hard disk drive (HDD) in Windows different from the product specifications?

The capacity of the storage device (HDD or SSD) of the manufacturer is calculated assuming that 1 KB = 1,000 Bytes. However, the operating system (Windows) calculates the storage device capacity assuming that 1 KB = 1,024 Bytes, and therefore the capacity representation of the HDD in Windows is smaller than the actual capacity. The capacity representation in Windows may be smaller than the actual capacity because some apps occupy a certain area of the HDD outside of Windows.

For models with the **Samsung Device Care** app, the HDD capacity representation in Windows may be smaller than the actual capacity because the **Samsung Device Care** app uses a hidden area of 5–20 GB of the HDD to save the recovery image, and that hidden area is not counted towards the total size available to Windows. The size of the **Samsung Device Care** app varies by model.

What is a recovery image?

This refers to the operating system, drivers, and software that are converted to a data image. It is required to recover the computer and is embedded in the computer's HDD. However, this is not provided for storage devices where the capacity is less than 64 GB.

How can I restore a computer that does not have the Samsung Device Care app?

Restore the computer with the recovery feature provided by Windows. Refer to the Recover Functionality item in the help for more details.

Miscellaneous

The camera and the microphone are not working. How do I turn them on again?

When recording protect mode is activated, the camera and microphone will not work. Select the Start button (■) → **All apps** → **Samsung Settings** → **Security and privacy** and select the **Block microphone** and **Block camera** switch to set it **Off**.

The computer does not turn on automatically when the display panel is opened.

To turn on the computer, the display panel should be opened greater than a certain angle.

The angle may differ depending on the model.

If the computer LED does not turn on automatically, press the Power button.

User Test

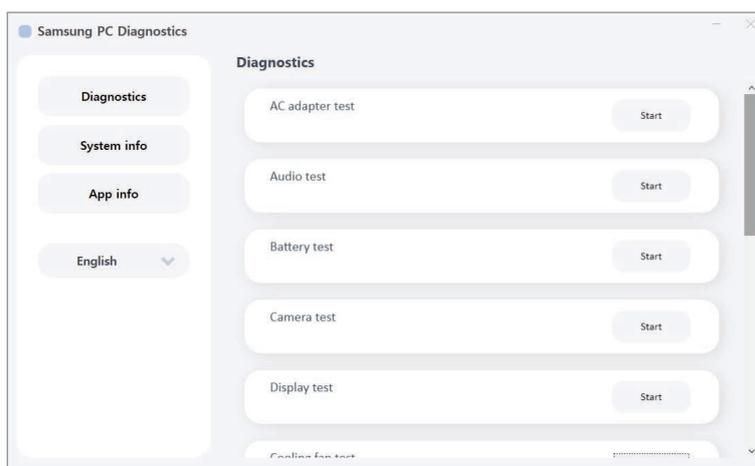
Samsung PC Diagnostics

This app provides the diagnostic features to help you to quickly test the hardware components of Samsung PCs and easily check hardware issues.

- Your PC must run the default OS which is provided by Samsung PC.
- Images and features may differ depending on the model and the app version.
- The provided hardware diagnostic items and each diagnostic feature's test order and its method may vary depending on the app version.
- This app may be updated without any prior notice. You can download the latest version of app at www.samsung.com.

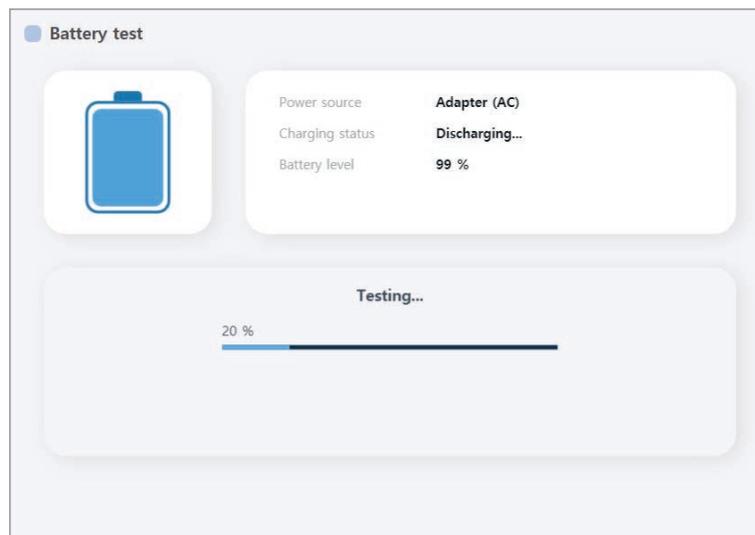
1 Select the Start button () → **All apps** → **Samsung PC Diagnostics**.

2 Select **Diagnostics** on the main screen.



3 Select **Start** for the hardware diagnostic item you want to test.
The test will begin when the test screen appears.

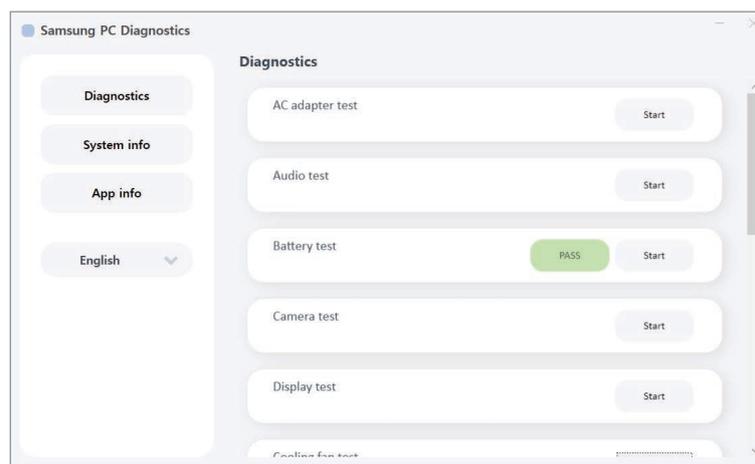
4 Follow the on-screen instructions to proceed with the test.



- ✍ • Some parts of test run automatically but some parts require your interaction.
- The test screen and its method may vary depending on the diagnostic items.
- There may be a problem with the system if you force stop the test while the test is running.

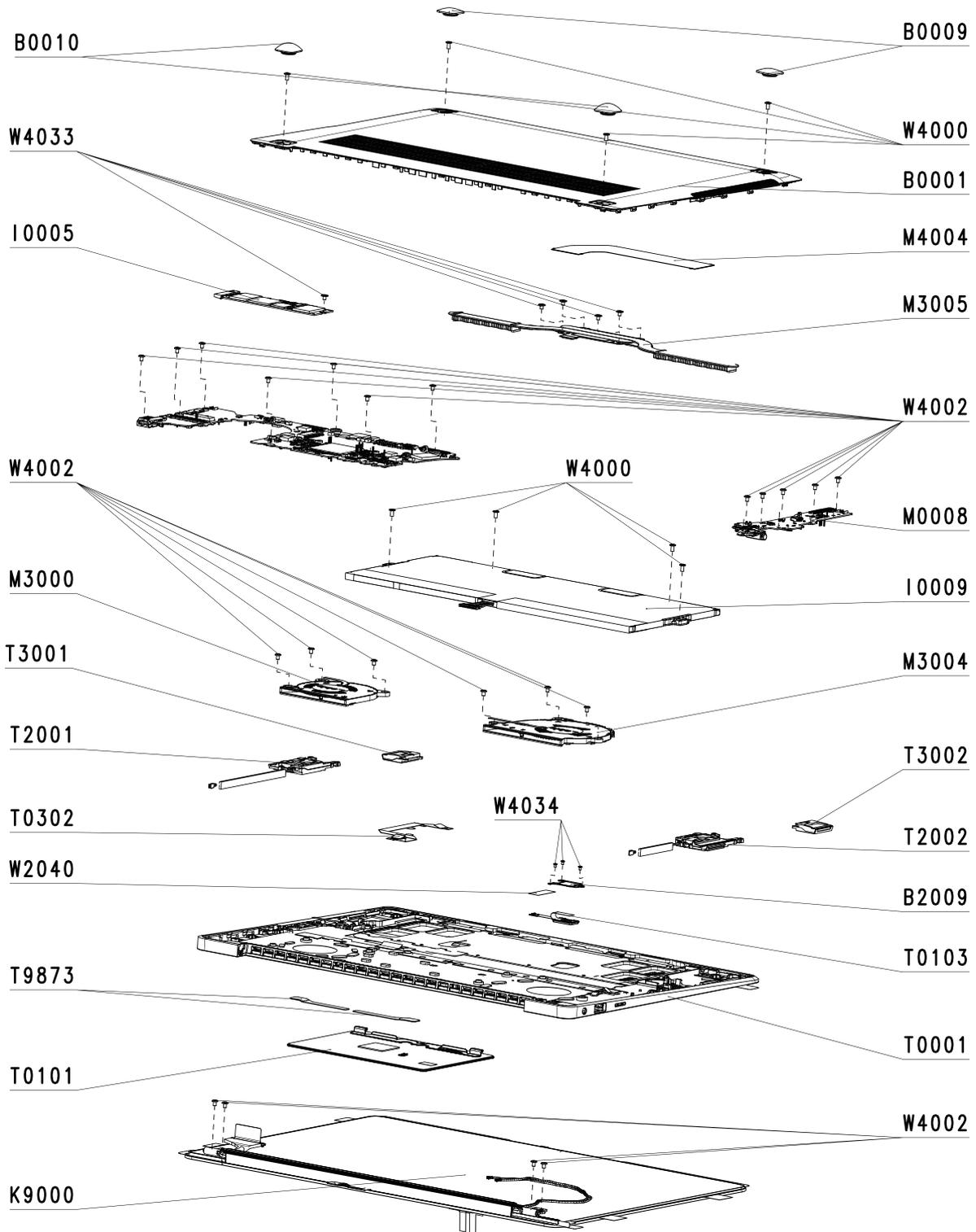
5 The test results will appear.
To finish the test, select **Exit**.

6 Check the test results of the item which has completed the diagnostic test on the main screen.



Exploded View and Parts List

Exploded View



Parts List

Number	Name
B0001	Case Rear
B0009	Rubber Up
B0010	Rubber Down
B2009	Bracket Power Key
I0005	SSD
I0009	Battery
K9000	Display
M0008	Sub PBA
M3000	FAN-L
M3004	FAN-R
M3005	Heatsink
M4004	Main to Sub Cable
T0001	Case Front
T0101	Touchpad
T0103	Fingerprint Module (Power Key)
T0302	Touchpad Cable
T2001	SPEAKER-WOOFER LEFT
T2002	SPEAKER-WOOFER RIGHT
T3001	SPEAKER-TWEETER LEFT
T3002	SPEAKER-TWEETER RIGHT
T9873	Touchpad Adhesive (for Touchpad)
W2040	TAPE INSULATION-FIX
W4000	SCREW-MACHINE
W4002	SCREW-MACHINE
W4033	SCREW-MACHINE
W4034	SCREW-MACHINE

Disassembly and Assembly

Tools for Disassembly and Assembly

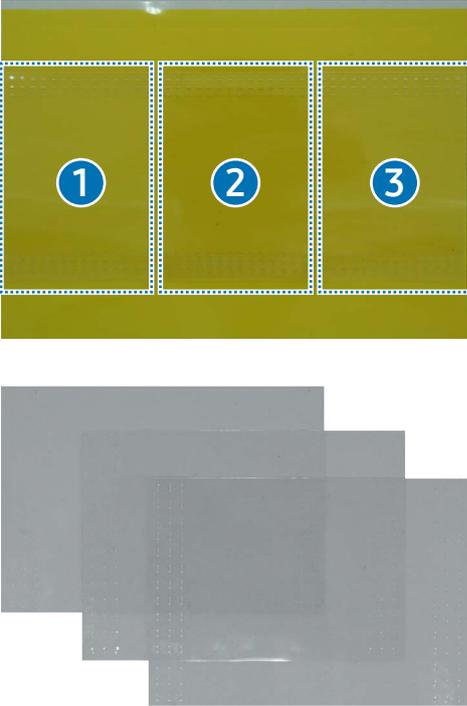
When repairing computers, you absolutely must wear protective equipment for your safety.

Tool & Part Code	Image	Description
Safety Goggles		Prevents accidents during repair (protective equipment)
Safety Gloves (ESD safe, cut-resistant)		Prevents accidents during repair (protective equipment)
Safety Mask		Prevents accidents during repair (protective equipment)
Cross-head Screwdriver		Tool for screwing in cross-head screws
Opening Tool		Tool for disassembling the connector and other parts

Tool & Part Code	Image	Description
Suction Cup		<p>Tool for disassembling the Case rear and other parts</p> <p> For separable handle suction cups, be careful not to injure yourself as the handle can be parted during use.</p>
ESD Safe Tweezers		<p>Tool for handling connectors, cables, and other parts</p> <p> Because it is possible to damage parts or components when using sharp tweezers or metal tweezers, use tweezers made with plastic or rubber material.</p>

Adhesives and Materials for Assembly

The fasteners composition may vary depending on the repair parts, country, region, or carrier.

Item	Quantity	Image	Description
Touchpad Film Jig	1		Jig for assembling the touchpad and Case front (total 3 ea)
Touchpad Adhesive Tape (Tape double-face removal)	1		<p>Fixing tape for assembling the touchpad and Case front</p> <p> Prepare touchpad film jig and touchpad adhesive tape for the Case front replacement.</p>

Disassembly and Reassembly for replacement

Case Rear

Disassembly

- ⚠ • Be sure to remove the Case rear while the computer is secured on a flat surface.
- It is possible to damage parts or components when using sharp metal tools.

1 Using the opening tool, remove the 4 rubber feet on the Case rear.

- ⚠ If you are going to use tweezers, use tweezers made out of plastic or rubber because it is possible to damage parts or components when using sharp metal tweezers.



2 Using a cross-head screwdriver, remove the 4 screws on the Case rear.

- ✔ Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the computer during assembly.



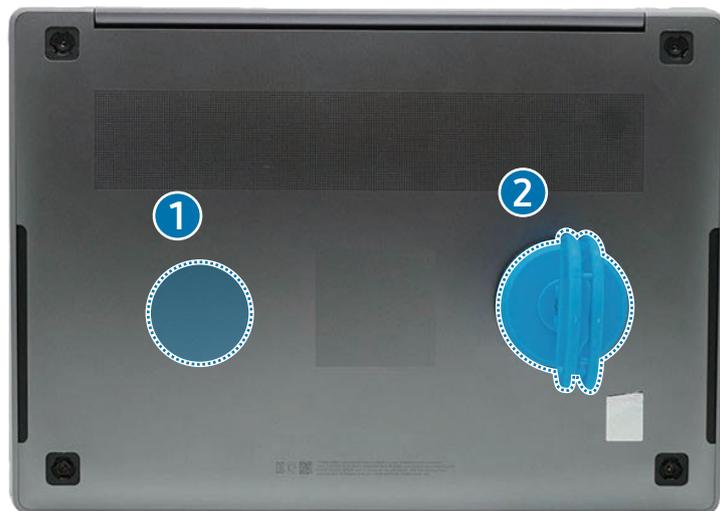
3 After attaching the suction cup on location number 1 of the Case rear, lift the suction cup upwards while separating the Case rear with the opening tool.

 For separable handle suction cups, be careful not to injure yourself as the handle can be parted during use.



-  • As the Case rear can be damaged by excessive force, be careful not to damage the Case rear.
- Be careful that the suction cup does not adhere to the area where the tape or sticker is attached.

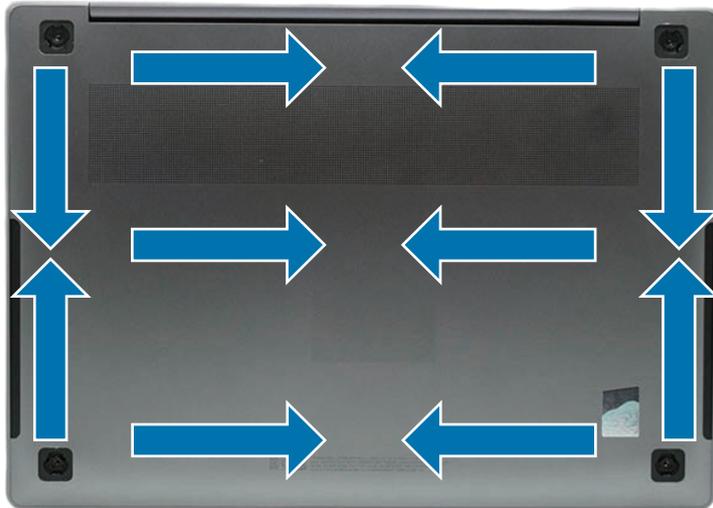
 You can use the suction cup on the Case rear, as indicated by 1 and 2 in the picture below, for easier disassembly.



Reassembly

 Leaving screws inside the computer may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the computer.

- 1 Align the Case rear with the Case front and hook the Case rear by pressing it according to the hooking directions.

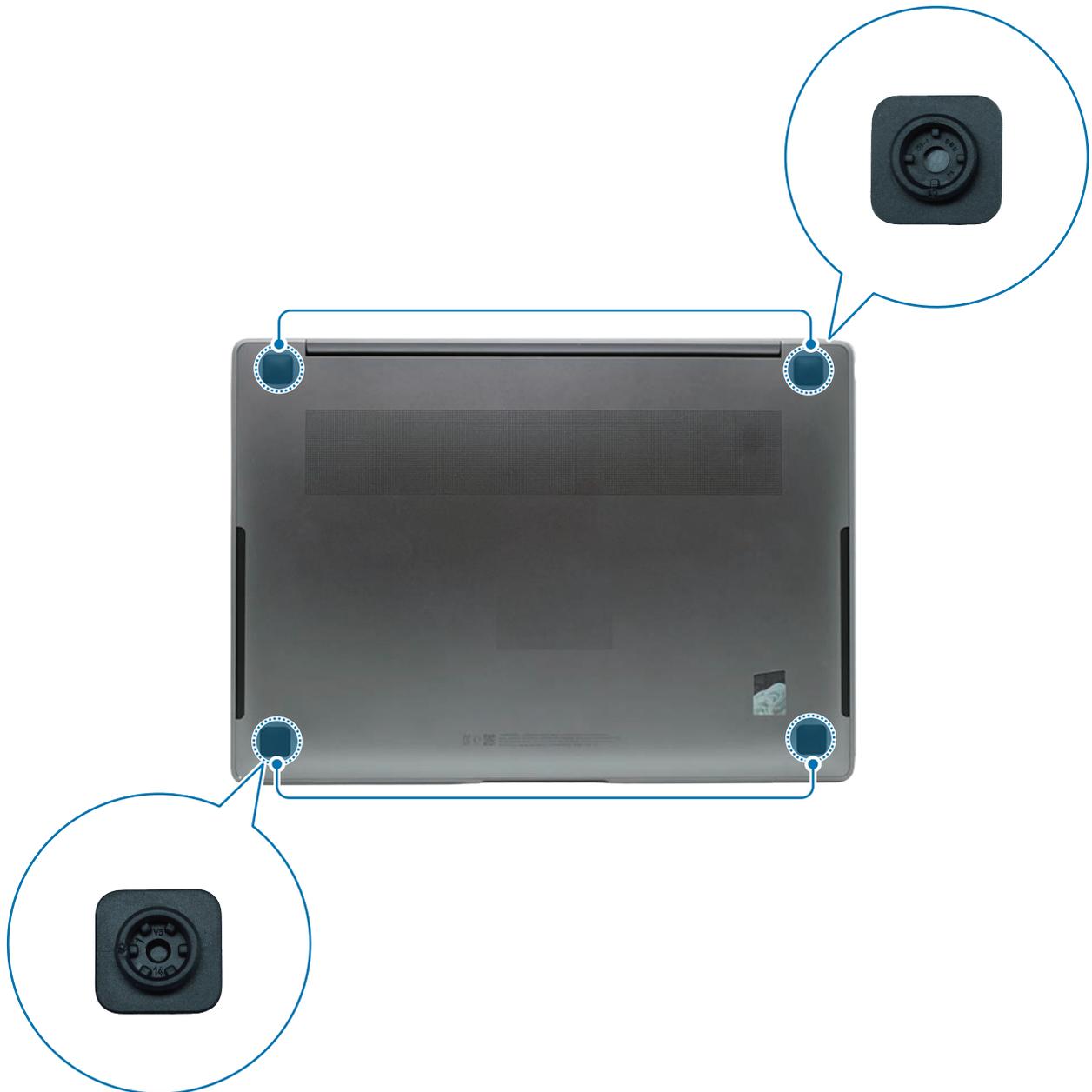


- 2 Using a cross-head screwdriver, fasten the 4 screws on the Case rear.



3 Align the 4 rubber feet with the Case rear holes and press them to assemble them.

 Be sure to distinguish the types of rubber feet while assembling. There are 2 different types of rubber feet between top and bottom side and it should be assembled in accordance with the right type. Check the marks on each rubber foot in the picture below.



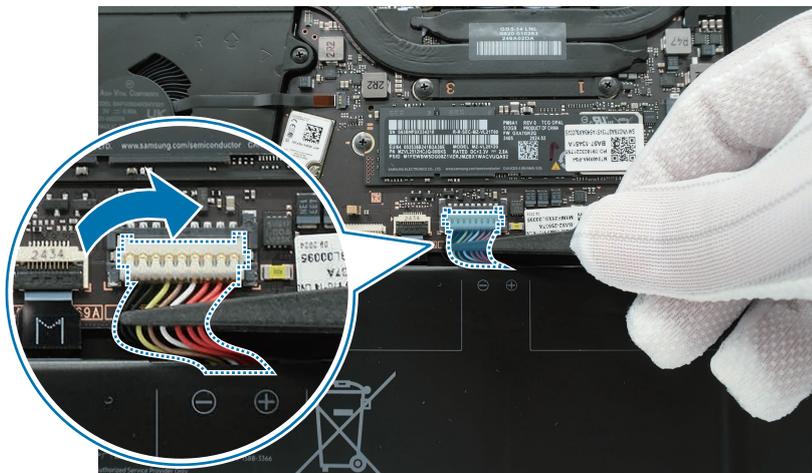
Battery

Disassembly

 Remove the [Case Rear](#) first before you begin.

1 Using the tweezers, lift up and remove the battery connector.

-  Be careful not to damage the near components.
- Be careful not to damage the battery connector when separating it with a sharp tool.

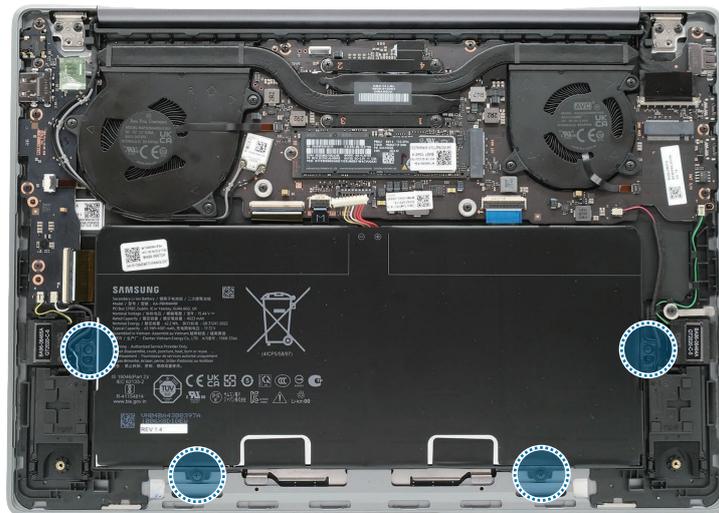


2 Using a cross-head screwdriver, remove the 4 screws on the battery, lift up the battery, and then remove it.

 Be careful not to damage the battery.

 Be careful not to damage the near components.

 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the computer during assembly.



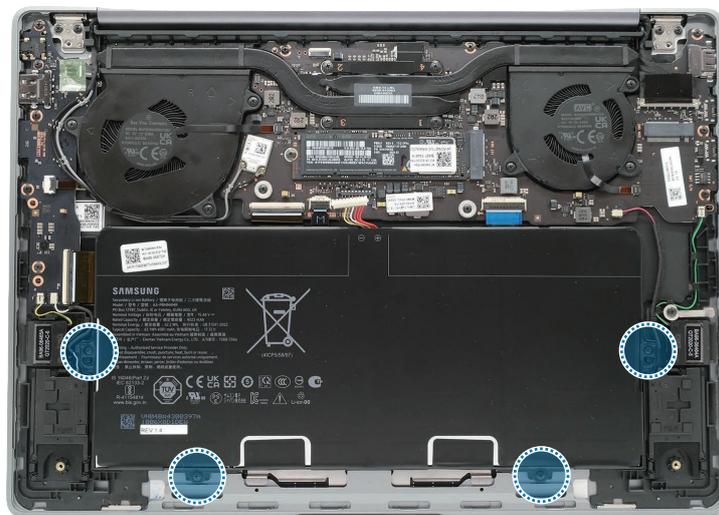
Reassembly

 Leaving screws inside the computer may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the computer.

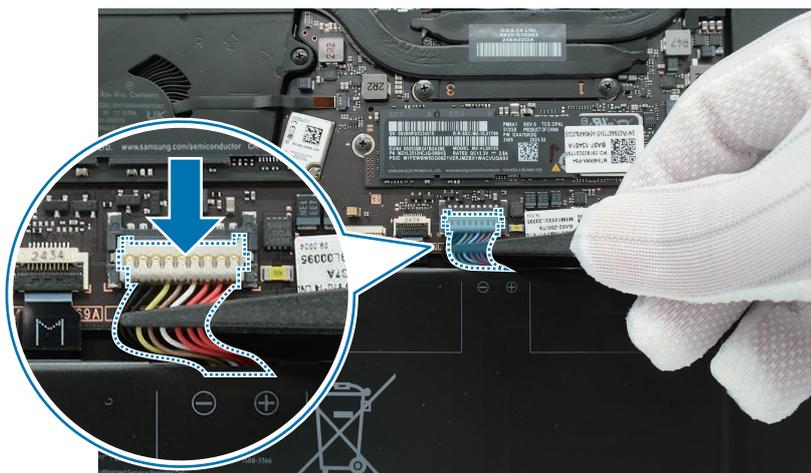
1 Place the battery on the Case front and fasten the 4 screws on the battery with a cross-head screwdriver.

 Be careful not to damage the battery.

 Be careful not to damage the near components.



2 Place the battery connector and press it until you feel a click.



 Reassemble the [Case Rear](#) to complete assembly.

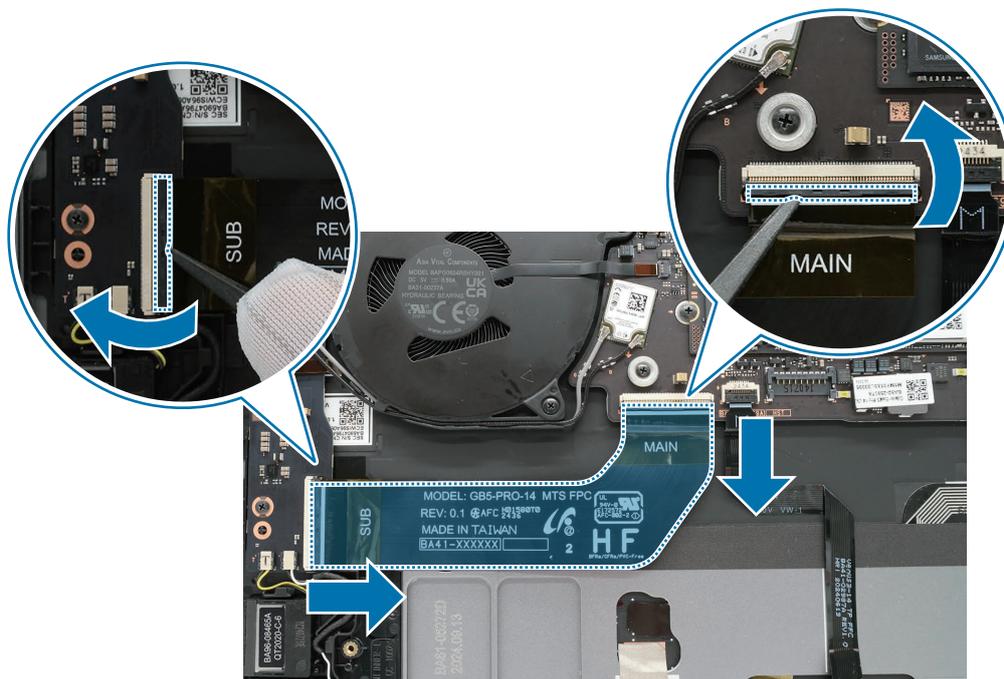
Main to Sub Cable

Disassembly

 Remove the [Case Rear](#) and [Battery](#) first before you begin.

Using the tweezers, lift up the connector levers of the Main to Sub cable to open it and remove the Main to Sub cable.

 Be careful not to damage the connector and near components when removing the connector.

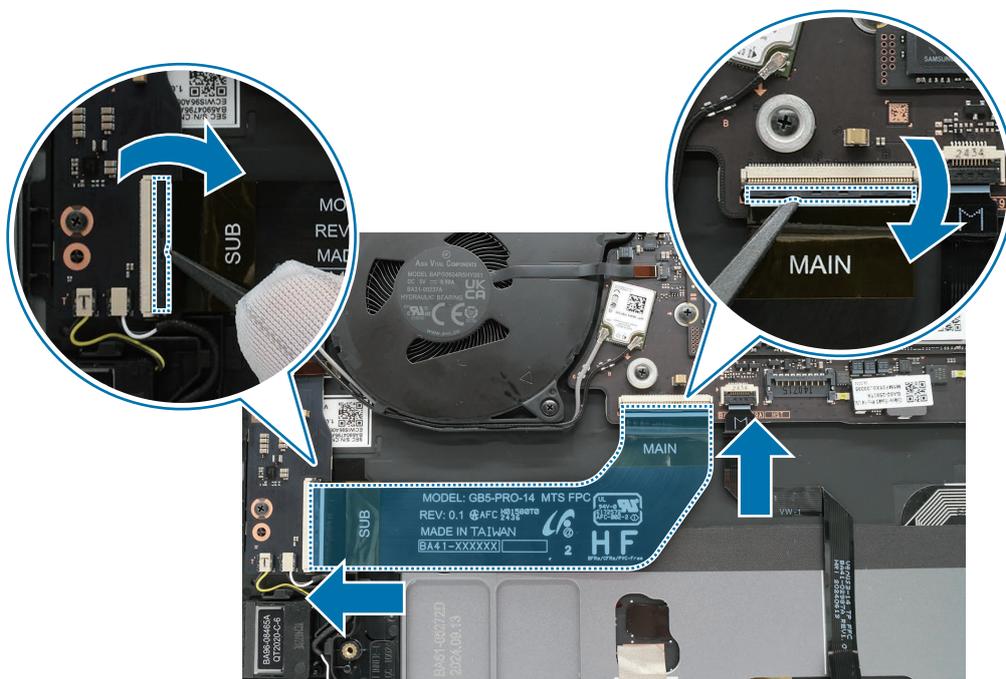


Reassembly

⚠ Leaving screws inside the computer may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the computer.

Using the tweezers, open the connector levers of the main PBA and sub PBA, assemble the Main to Sub cable, and then close the connector levers.

- ⚠** • Make sure that the connection is completed by pressing both sides of the Main to Sub cable after assembly.
- Do not turn the cable upside down.



👉 Reassemble the [Battery](#) and [Case Rear](#) to complete assembly.

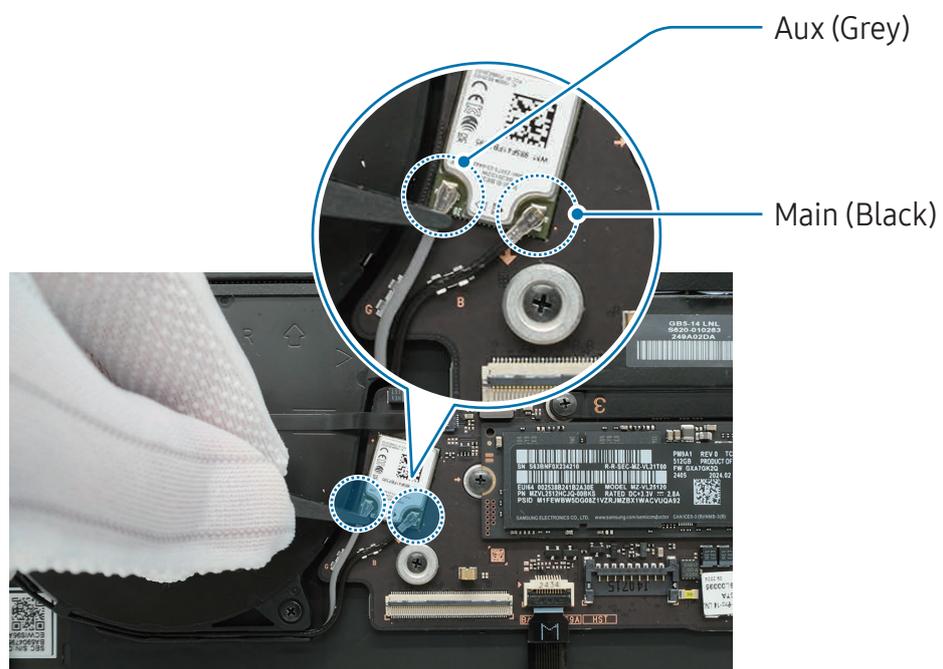
Wi-Fi Antenna and Cable

Disassembly

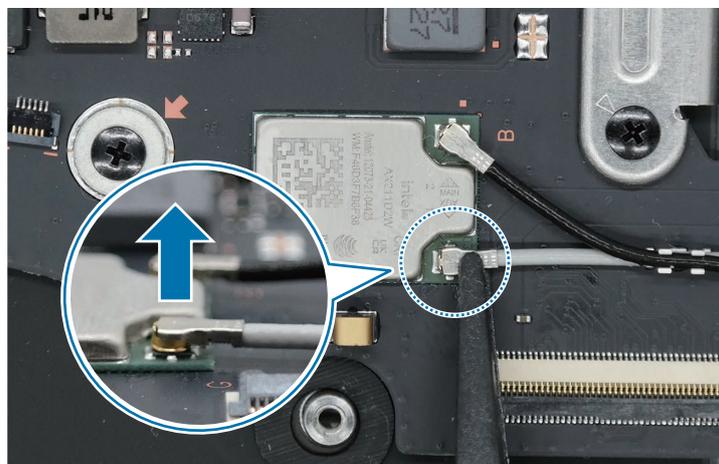
 Remove the [Case Rear](#), [Battery](#), and [Main to Sub Cable](#) first before you begin.

1 Using the tweezers, hold the Wi-Fi cable connector head, pull over to 90°, and then remove the 2 Wi-Fi cables. (Main/Aux)

-  • Be careful not to damage the connector when removing it.
- With the tweezers, hold the metal part of the antenna, not the cable, and lift it vertically.

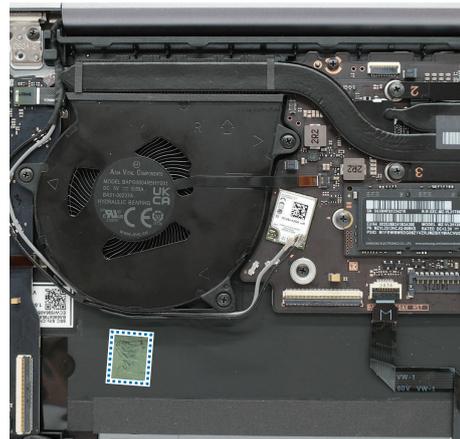
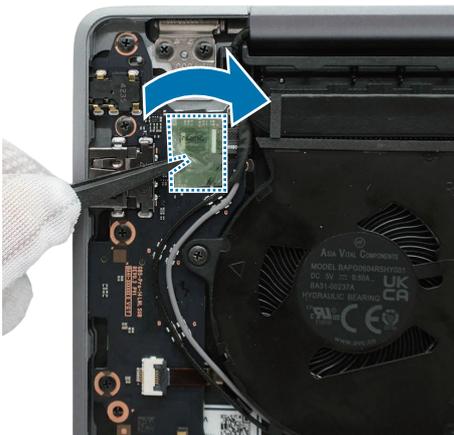
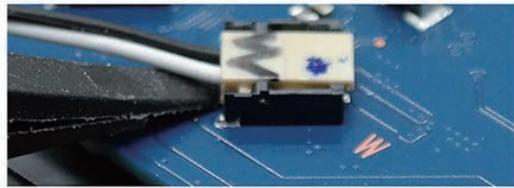
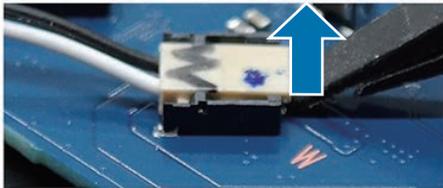


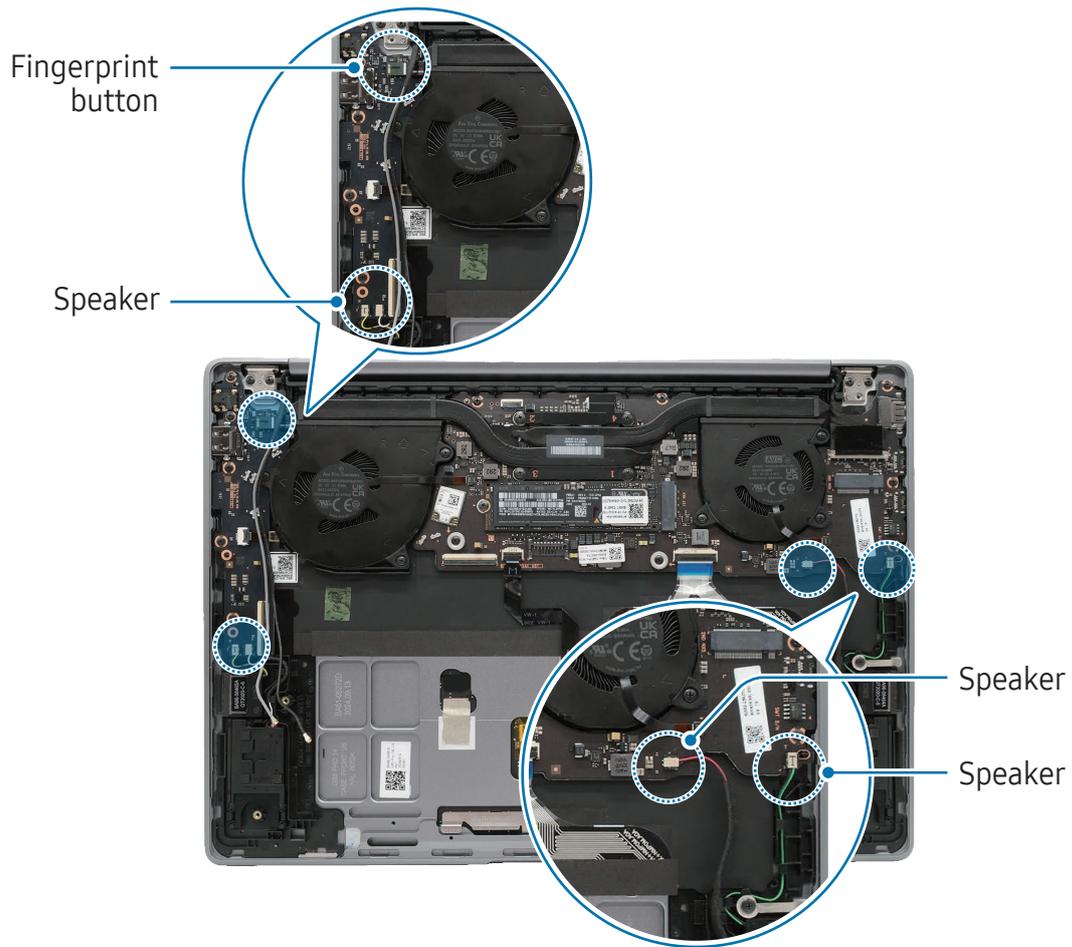
Example



2 Remove the fingerprint button tape and put it on the Case front. Using the opening tool, disconnect the fingerprint button connector and the speaker connectors.

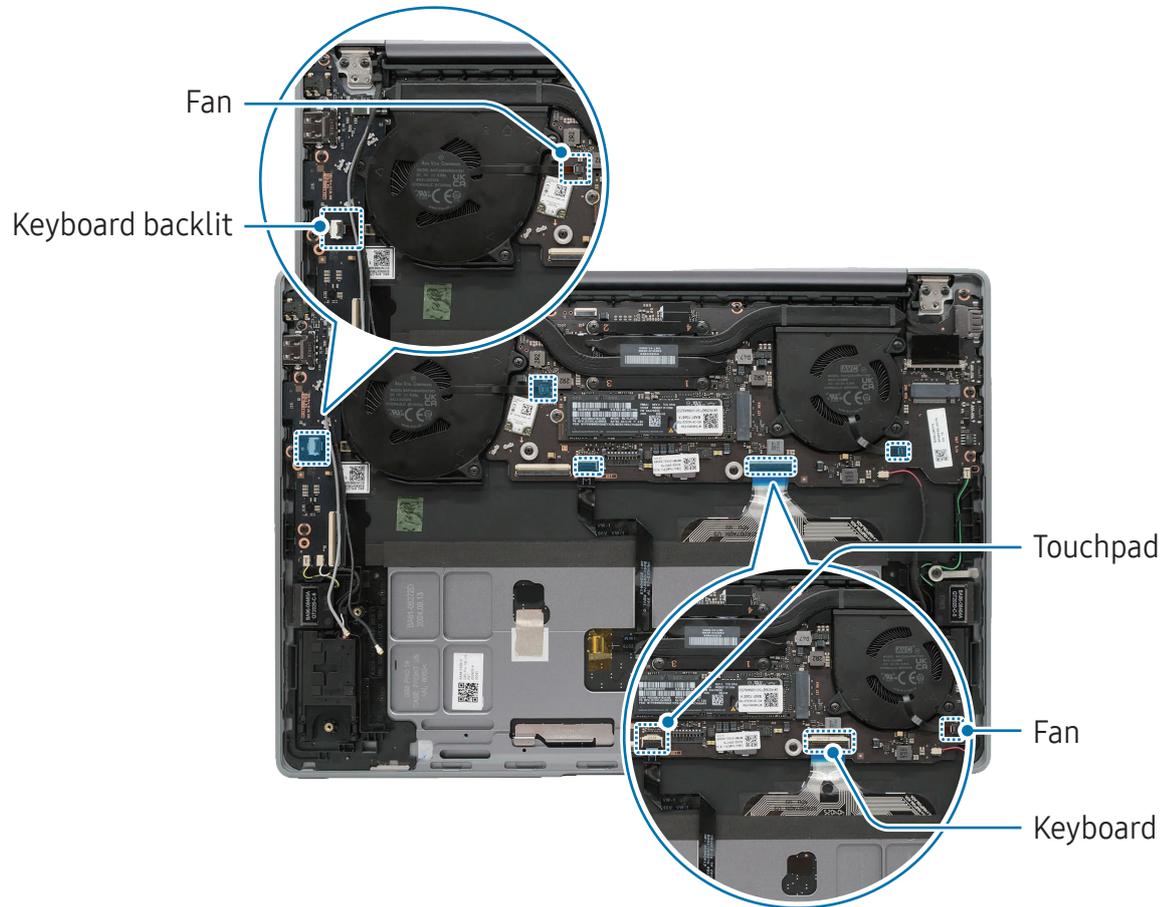
- ⚠ Be careful not to damage the near components.
- Be careful not to damage the connector when removing it.
- Do not lift the front part (in the direction of the connector) for disconnecting the speaker connector.





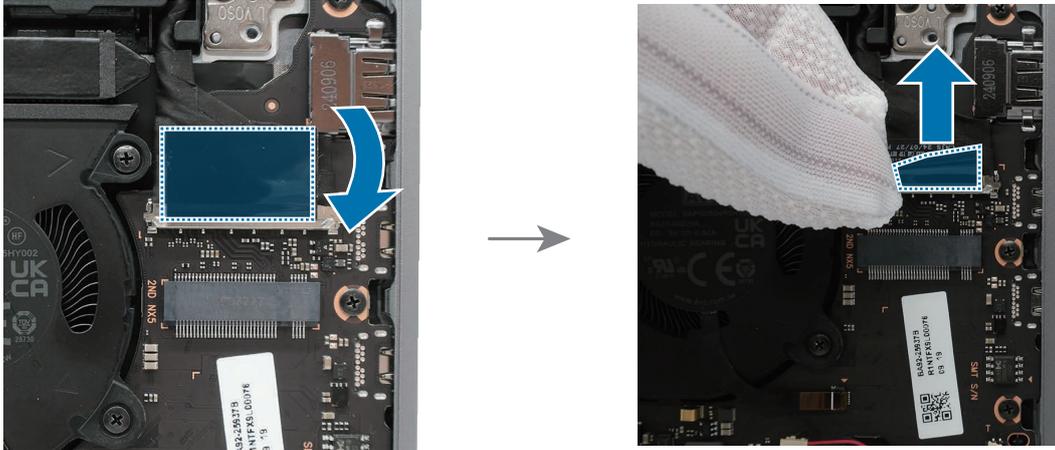
3 Using the opening tool, open the lever of each connector and then remove all cables and FPCs connected to the main PBA and sub PBA using the tweezers.

- ⚠ Be careful not to break the levers when opening up.
- Be careful not to damage the near components.



4 Hold the insulator handle of the display connector and lift up the display connector cable.

⚠ Be careful not to damage the near components.

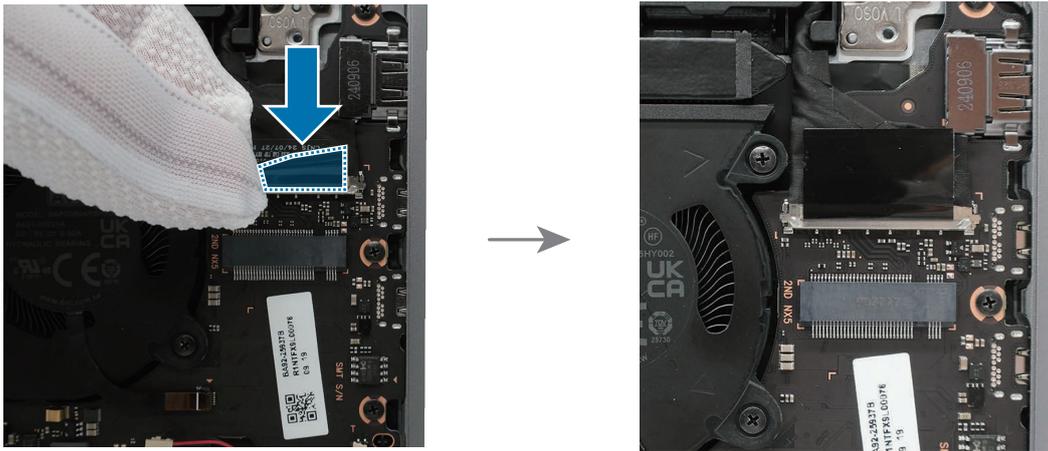


Reassembly

 Leaving screws inside the computer may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the computer.

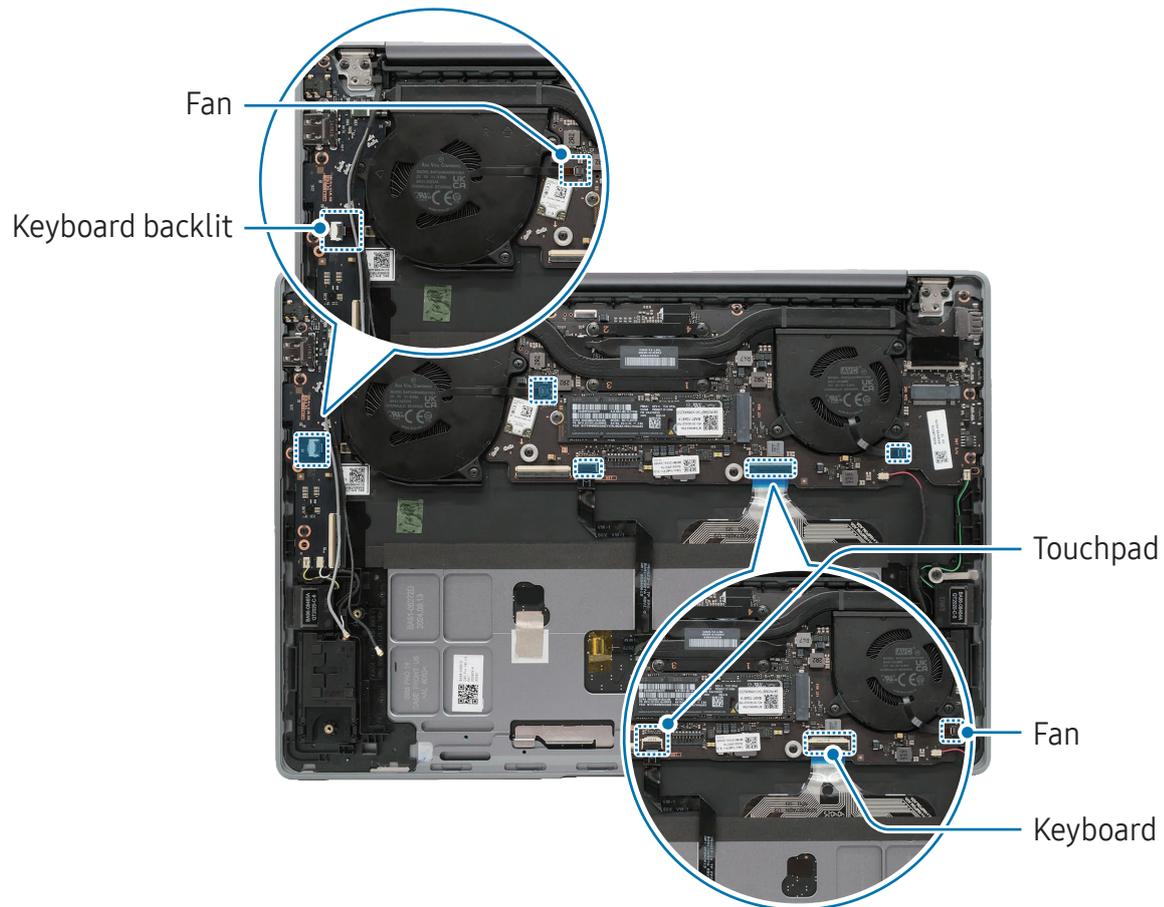
1 Hold the insulator handle of the display cable and push it to the display connector.

 Make sure the connector is assembled to the main PBA.

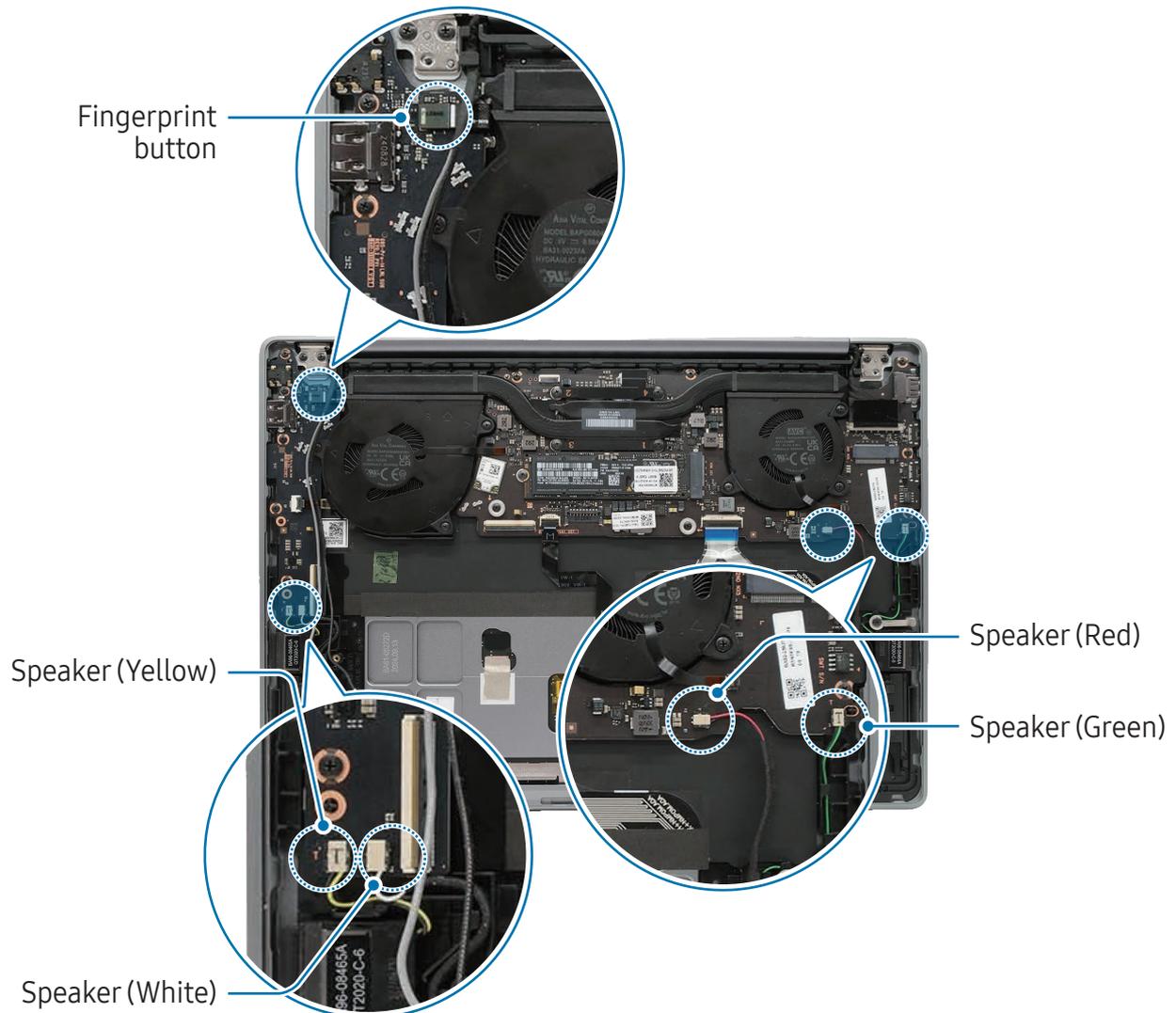


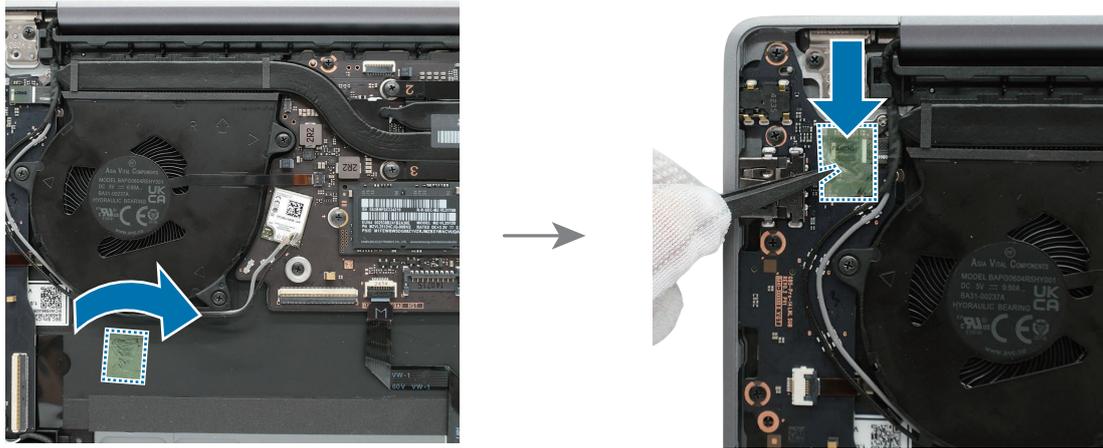
2 Open the lever of each connector, insert each cable into its connector, and then close the lever.

- ❗ • Make sure the connector lever and connector guide lines are arranged horizontally so that each cable is properly positioned.
- The guide line of each cable should be located to the edge of its connector lever after inserting.



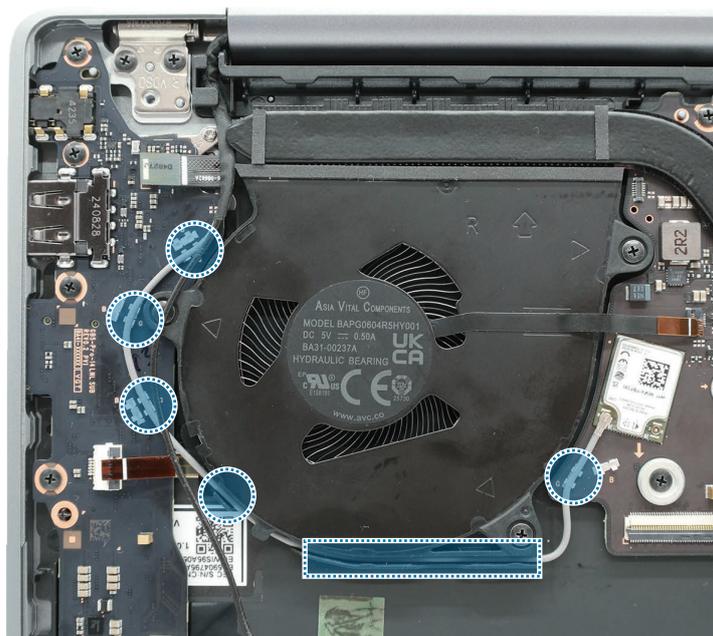
- 3 Connect the fingerprint button and speaker connectors. When you connect the speaker cables, press them down to 90°. Remove the fingerprint button tape on the Case front and put it on the fingerprint button.
- ⚠ Connect each speaker connector according to the picture below, taking note of the distinct cable colors (Yellow/White/Green/Red).





4 Assemble the aux antenna cable (Grey) according to the routing path of the antenna guide clips.

⚠ The antenna cable should be routed to downside of the fan.



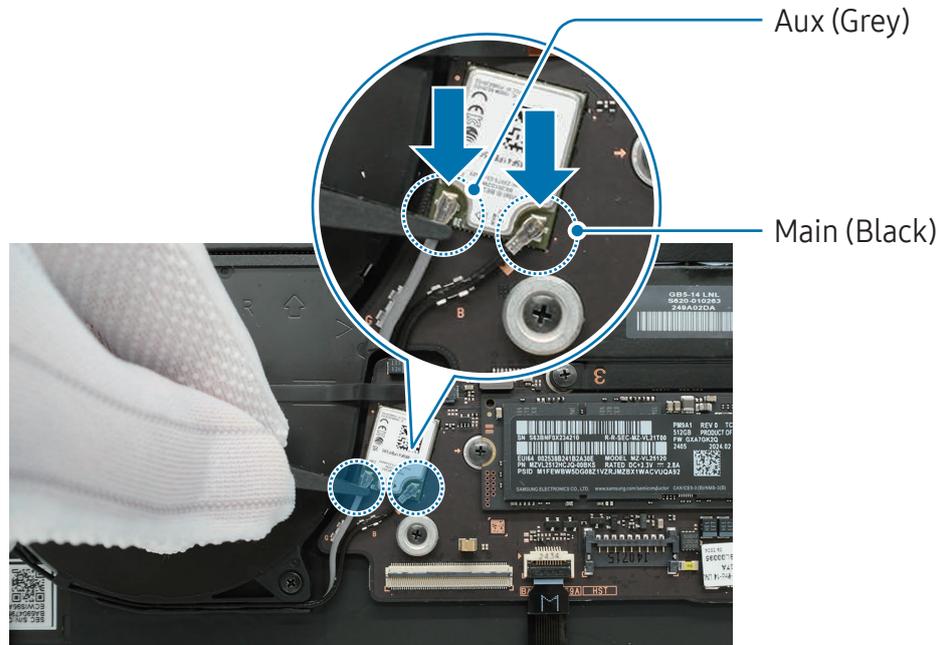
5 Assemble the main antenna cable (Black) according to the routing path of the antenna guide clips.

- ❗ • The antenna cable should be routed to downside of the fan.
- The main antenna cable (Black) should be routed after the aux antenna cable (Grey) is routed.

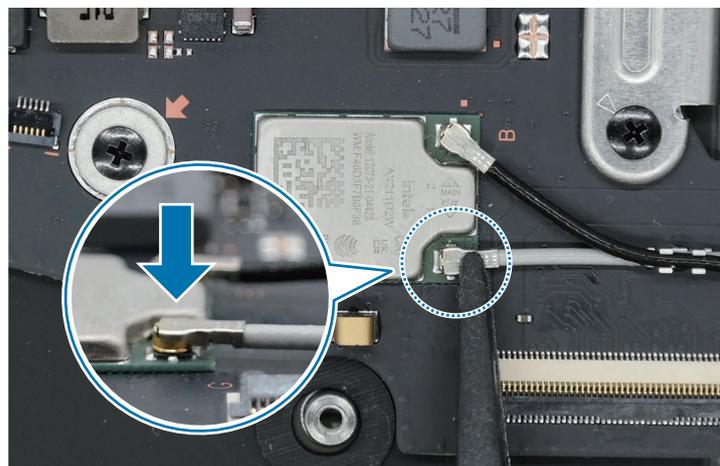


6 Assemble the antenna connector cable (Main/Aux) to each connector according to the routing path of guide clips.

- ⚠ • Be careful not to damage the antenna head.
- Make sure that the connection is completed after pressing the head of the connectors.



Example



📄 Reassemble the [Main to Sub Cable](#), [Battery](#), and [Case Rear](#) to complete assembly.

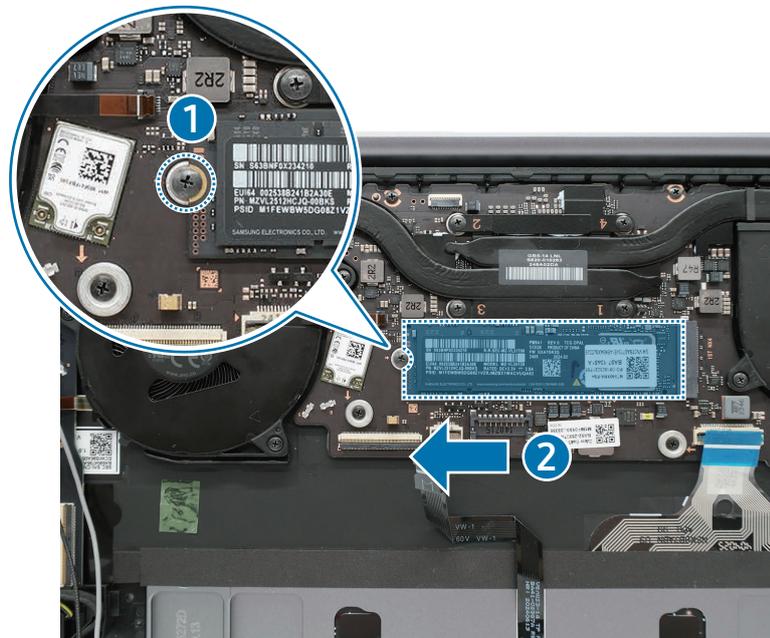
SSD

Disassembly

- Remove the [Case Rear](#), [Battery](#), [Main to Sub Cable](#), and [Wi-Fi Antenna and Cable](#) first before you begin.

Using a cross-head screwdriver, remove the screw located on the SSD, and then pull the SSD horizontally out of the SSD socket to separate it.

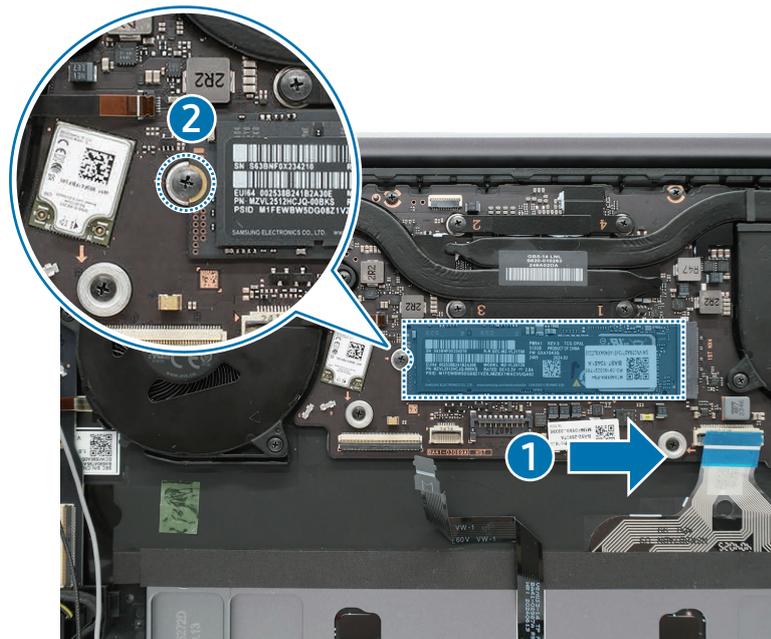
- The SSD screw is shorter than other screws. Keep it separately.
- Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the computer during assembly.



Reassembly

-  Leaving screws inside the computer may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the computer.

Insert the SSD module into the SSD connector and fasten the screw on the SSD with a cross-head screwdriver.



-  Reassemble the [Wi-Fi Antenna and Cable](#), [Main to Sub Cable](#), [Battery](#), and [Case Rear](#) to complete assembly.

Fan

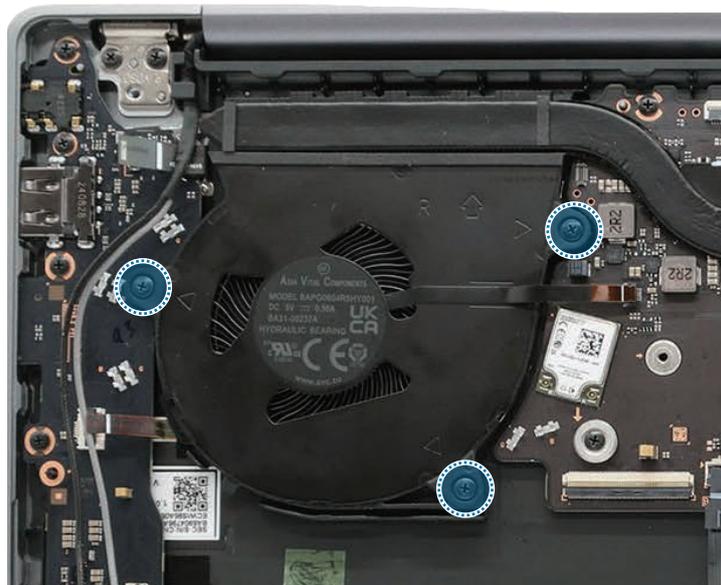
Disassembly

 Remove the [Case Rear](#), [Battery](#), [Main to Sub Cable](#), [Wi-Fi Antenna and Cable](#), and [SSD](#) first before you begin.

1 Using a cross-head screwdriver, remove the 3 screws on the left side fan, lift it up, and then remove the left side fan.

 Be careful not to damage the near components.

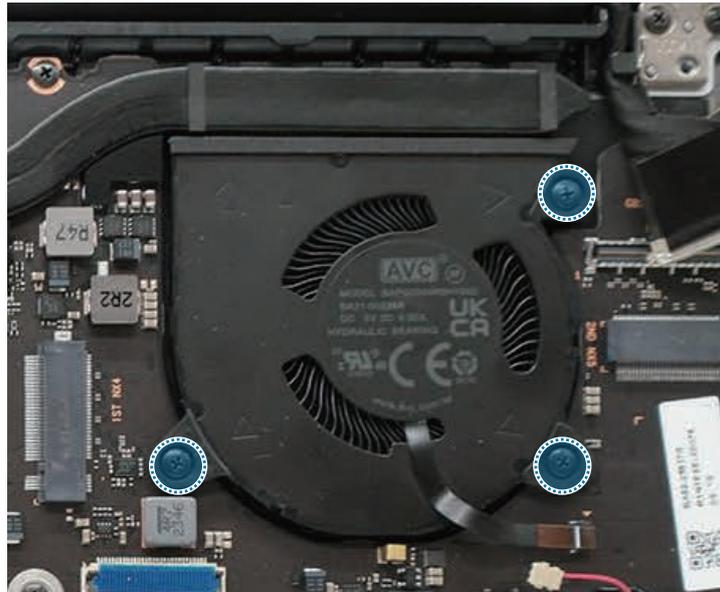
 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the computer during assembly.



2 Using a cross-head screwdriver, remove the 3 screws on the right side fan, lift it up, and then remove the right side fan.

⚠ Be careful not to damage the near components.

📝 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the computer during assembly.



Reassembly

- ⚠ Leaving screws inside the computer may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the computer.

Place the fans on both the left and right sides of the Case front and fasten the 6 screws on both fans with a cross-head screwdriver.



- ✍ Reassemble the [SSD](#), [Wi-Fi Antenna and Cable](#), [Main to Sub Cable](#), [Battery](#), and [Case Rear](#) to complete assembly.

Main PBA and Sub PBA

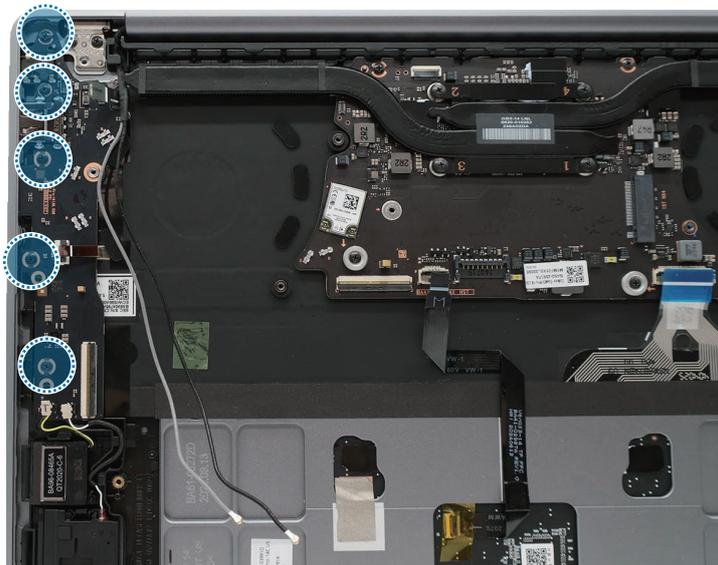
Disassembly

 Remove the [Case Rear](#), [Battery](#), [Main to Sub Cable](#), [Wi-Fi Antenna and Cable](#), [SSD](#), and [Fan](#) first before you begin.

1 Using a cross-head screwdriver, remove the 5 screws on the sub PBA. Lift up the sub PBA and remove it.

 Be careful not to damage the near components.

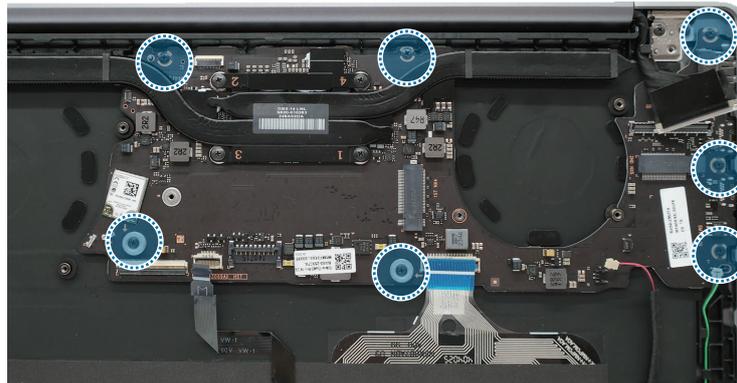
 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the computer during assembly.



2 Using a cross-head screwdriver, remove the 7 screws on the main PBA. Lift up the main PBA and remove it.

⚠ Be careful not to damage the near components.

✓ Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the computer during assembly.

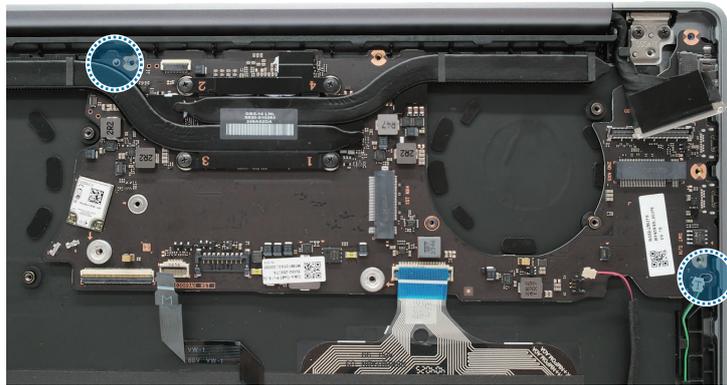


Reassembly

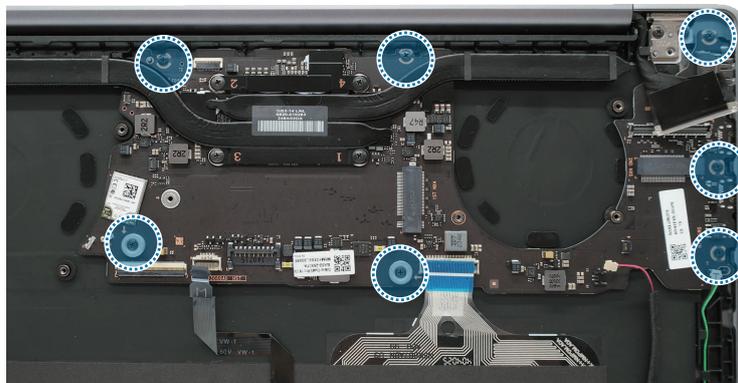
 Leaving screws inside the computer may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the computer.

1 Place the main PBA to the Case front in accordance with the guide poles of the Case front.

 Check if there is no cable under the main PBA.

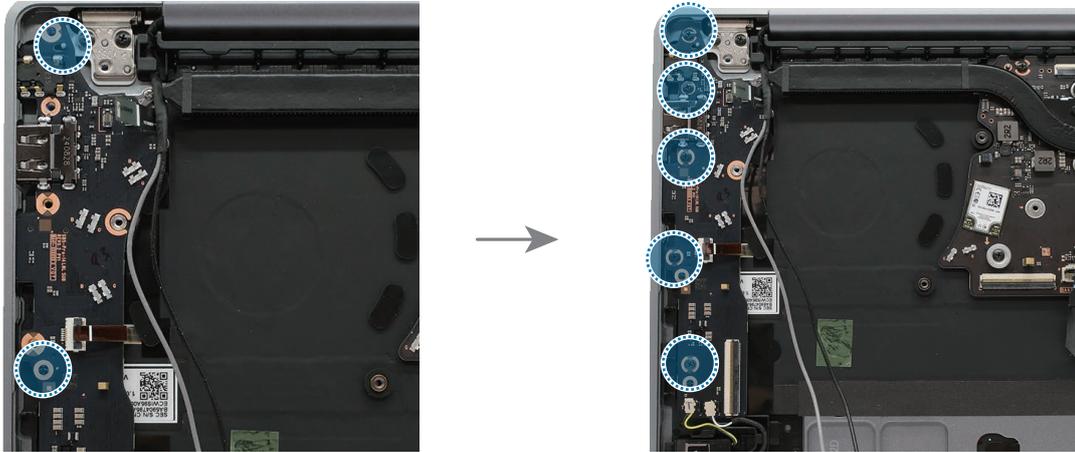


2 Using a cross-head screwdriver, fasten the 7 screws on the main PBA.



3 Place the sub PBA to the Case front in accordance with the guide poles of the Case front. Using a cross-head screwdriver, fasten the 5 screws on the sub PBA.

⚠ Check if there is no cable under the sub PBA.



✔ Reassemble the [Fan](#), [SSD](#), [Wi-Fi Antenna and Cable](#), [Main to Sub Cable](#), [Battery](#), and [Case Rear](#) to complete assembly.

Display

Disassembly

-  Remove the [Case Rear](#), [Battery](#), [Main to Sub Cable](#), [Wi-Fi Antenna and Cable](#), [SSD](#), [Fan](#), and [Main PBA and Sub PBA](#) first before you begin.

1 Using a cross-head screwdriver, remove the 4 screws on the left and right hinges.

-  Be careful not to damage the near components.

-  Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the computer during assembly.



Left



Right

2 Open the display by lifting it from the Case front.

- 
 - Be careful not to open the display further than 130° (the maximum limit angle) using excessive force as it may damage the display.
 - Be careful not to damage the near components.



3 Remove the display by lifting it from the Case front.

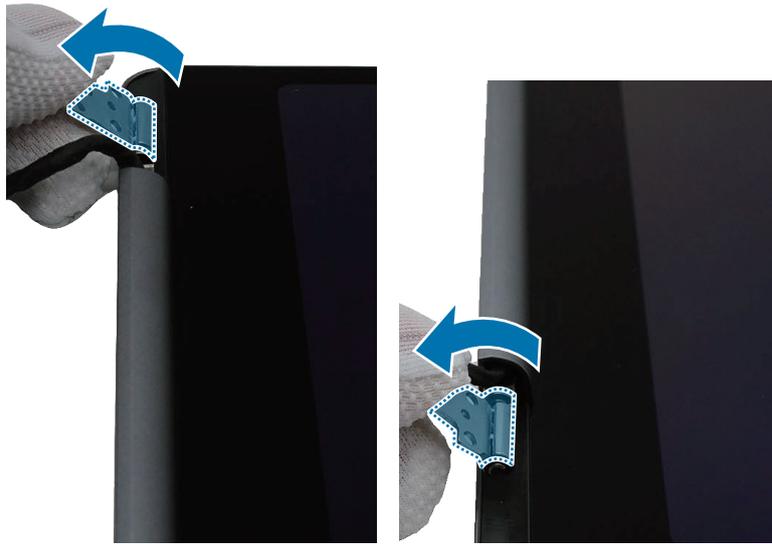
⚠ Be careful not to damage the near components.



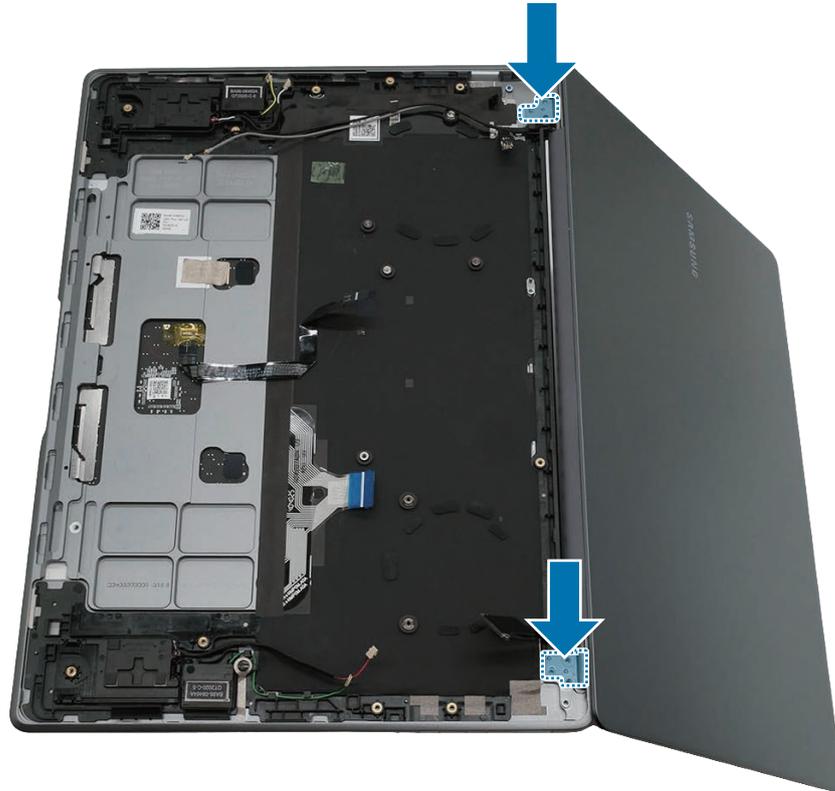
Reassembly

 Leaving screws inside the computer may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the computer.

- 1 Prepare the display part and open the left and right hinges to maximum angle.



- 2 Place the display part to the Case front as shown in the picture below and then insert both hinges into the guide holes of the Case front.



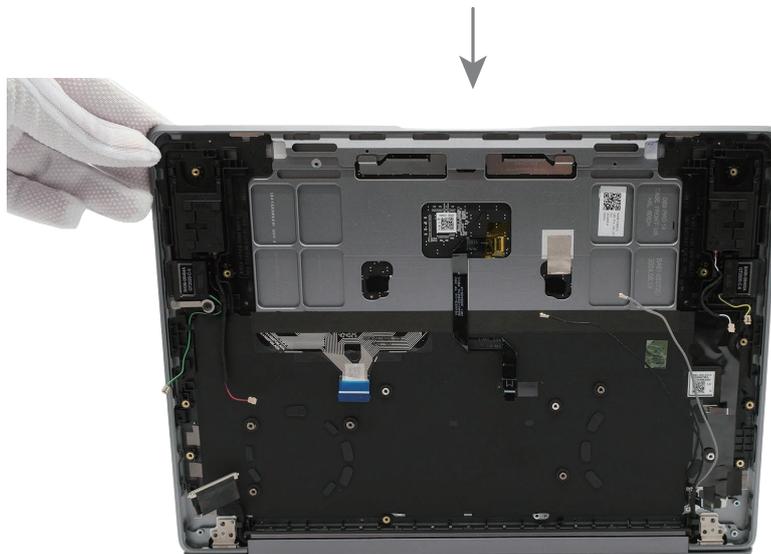
- Using a cross-head screwdriver, fasten the 4 screws on the left and right hinges and close the display completely.



Left



Right



-  Reassemble the [Main PBA and Sub PBA](#), [Fan](#), [SSD](#), [Wi-Fi Antenna and Cable](#), [Main to Sub Cable](#), [Battery](#), and [Case Rear](#) to complete assembly.

Fingerprint Sensor

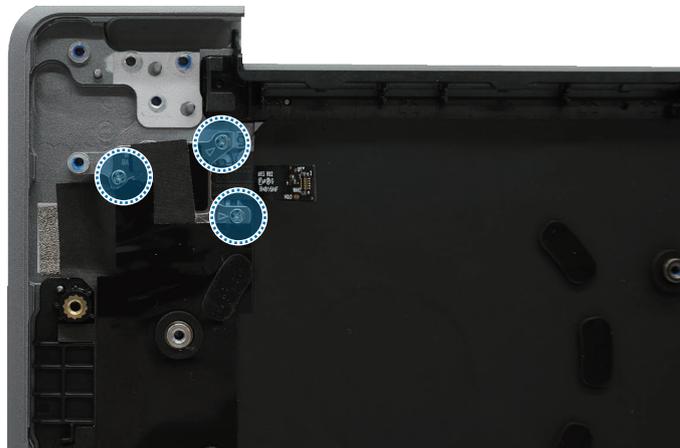
Disassembly

 Remove the [Case Rear](#), [Battery](#), [Main to Sub Cable](#), [Wi-Fi Antenna and Cable](#), [SSD](#), [Fan](#), [Main PBA and Sub PBA](#), and [Display](#) first before you begin.

1 Using a cross-head screwdriver, remove the 3 screws on the fingerprint sensor bracket.

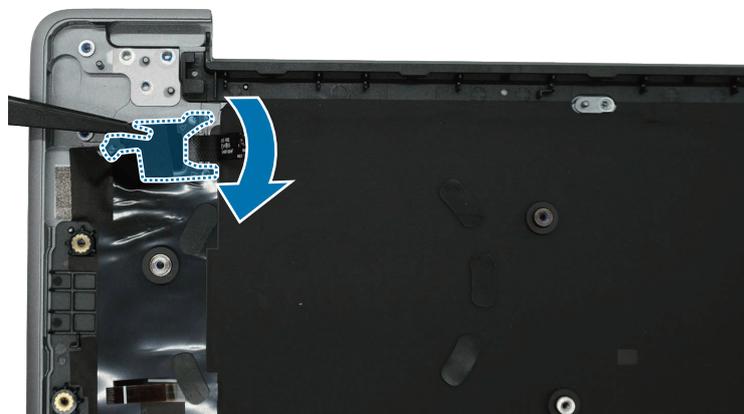
 Be careful not to damage the near components.

 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the computer during assembly.

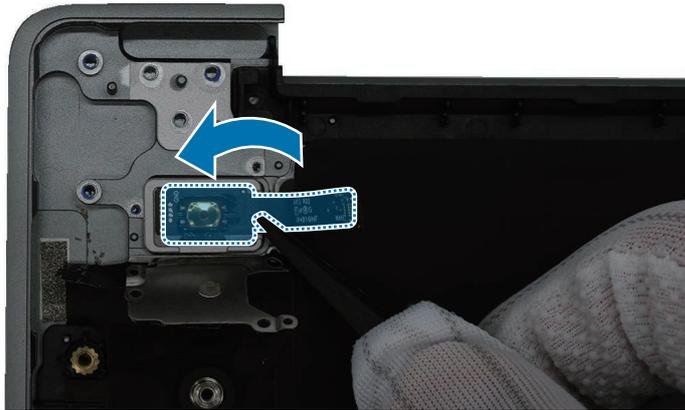


2 Using the tweezers, lift the fingerprint sensor bracket and put it down.

 The fingerprint sensor bracket cannot be removed.



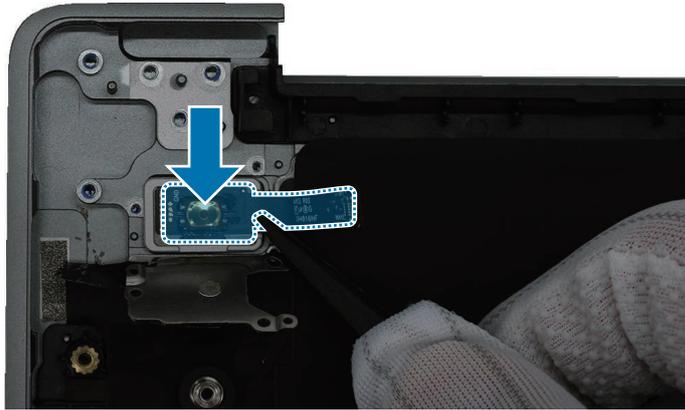
- 3 Using the tweezers, remove the fingerprint sensor module from the Case front.



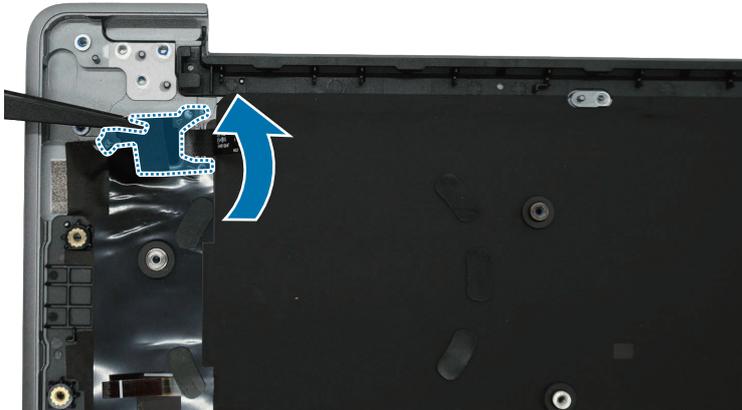
Reassembly

-  Leaving screws inside the computer may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the computer.

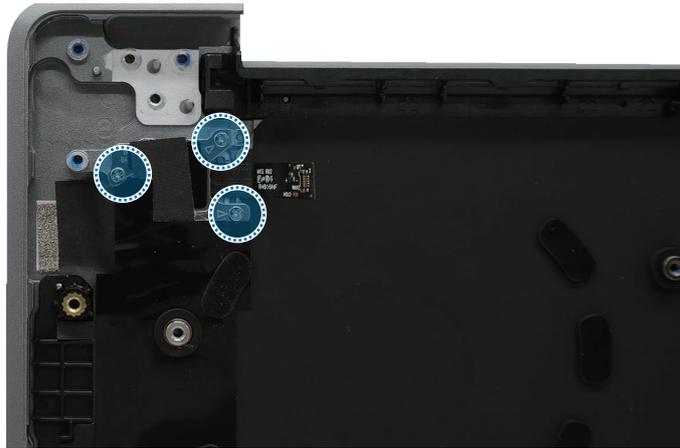
- 1 Align the fingerprint sensor module on the Case front.



- 2 Place the fingerprint sensor bracket over the fingerprint sensor module.



- 3 Using a cross-head screwdriver, fasten the 3 screws on the fingerprint sensor bracket.



-  Reassemble the [Display](#), [Main PBA](#) and [Sub PBA](#), [Fan](#), [SSD](#), [Wi-Fi Antenna and Cable](#), [Main to Sub Cable](#), [Battery](#), and [Case Rear](#) to complete assembly.

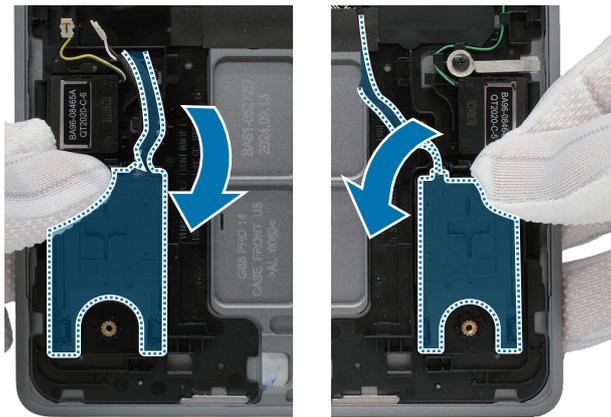
Speaker

Disassembly

- Remove the [Case Rear](#), [Battery](#), [Main to Sub Cable](#), [Wi-Fi Antenna and Cable](#), [SSD](#), [Fan](#), [Main PBA and Sub PBA](#), [Display](#), and [Fingerprint Sensor](#) first before you begin.

1 Lift up the left and right speaker woofers and remove them.

- Be careful not to damage the near components.

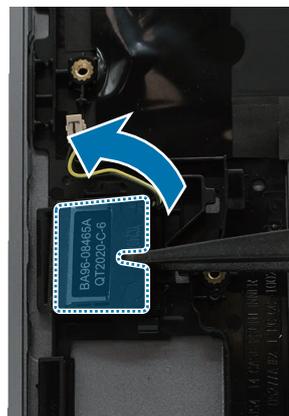
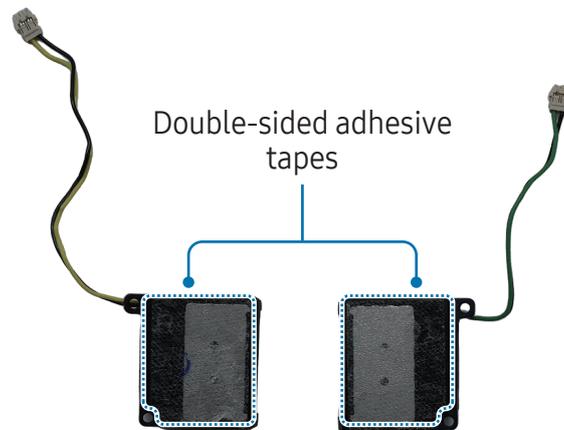


Left

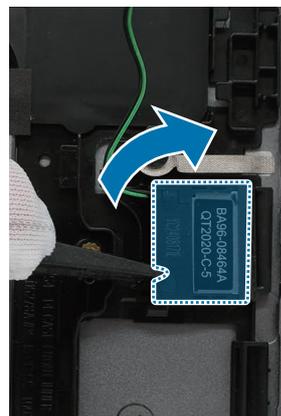
Right

2 Using the tweezers, lift up the left and right speaker tweeters and remove them.

⚠ The tweeter is assembled with the double-sided adhesive tape. Be careful not to damage the part and double-sided adhesive tape.



Left



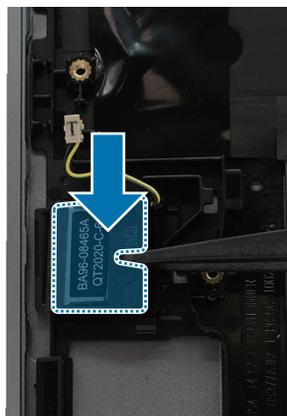
Right

Reassembly

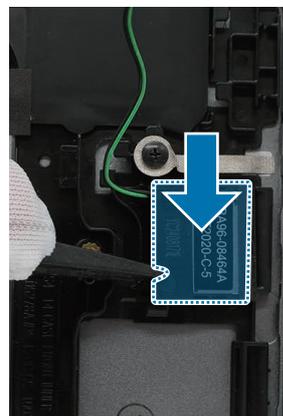
 Leaving screws inside the computer may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the computer.

1 Remove the blue release tape on each speaker tweeter. Place the left and right speaker tweeters in the right locations.

-  You can skip removing the blue release tape on the speaker tweeter if you use the same previous speaker tweeter.
- There are 2 guide poles on each location.



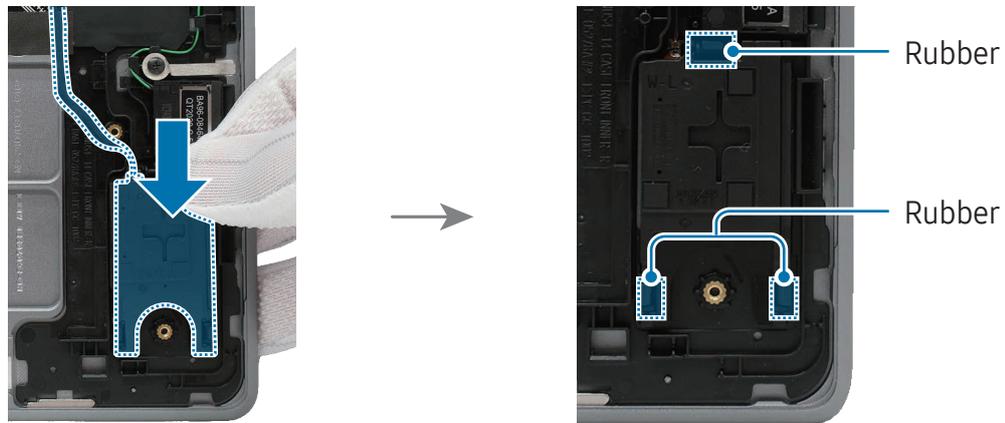
Left



Right

2 Place the right speaker in the right location.

⚠ Check if the speaker and black rubbers are located in the correct area.



3 Place the left speaker in the right location.

⚠ Check if the speaker and black rubbers are located in the correct area.



📦 Reassemble the [Fingerprint Sensor](#), [Display](#), [Main PBA](#) and [Sub PBA](#), [Fan](#), [SSD](#), [Wi-Fi Antenna and Cable](#), [Main to Sub Cable](#), [Battery](#), and [Case Rear](#) to complete assembly.

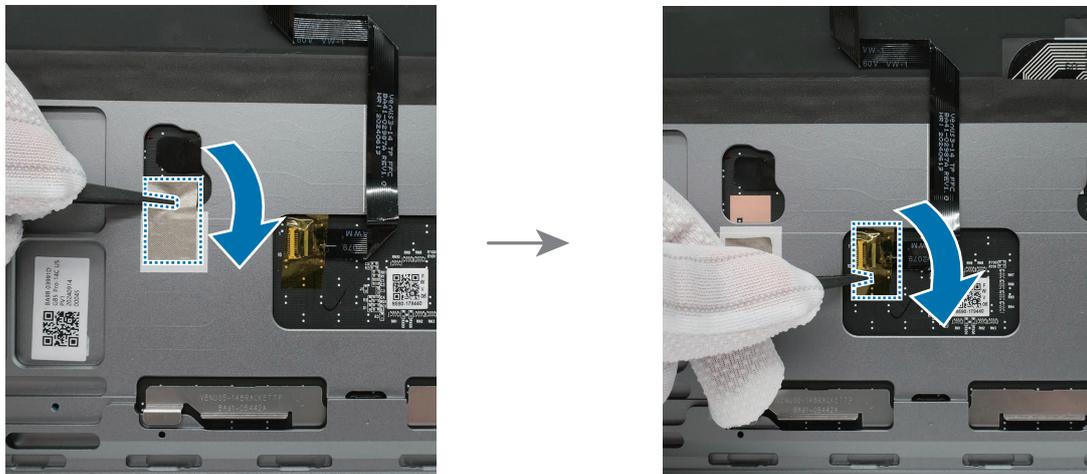
Touchpad

Disassembly

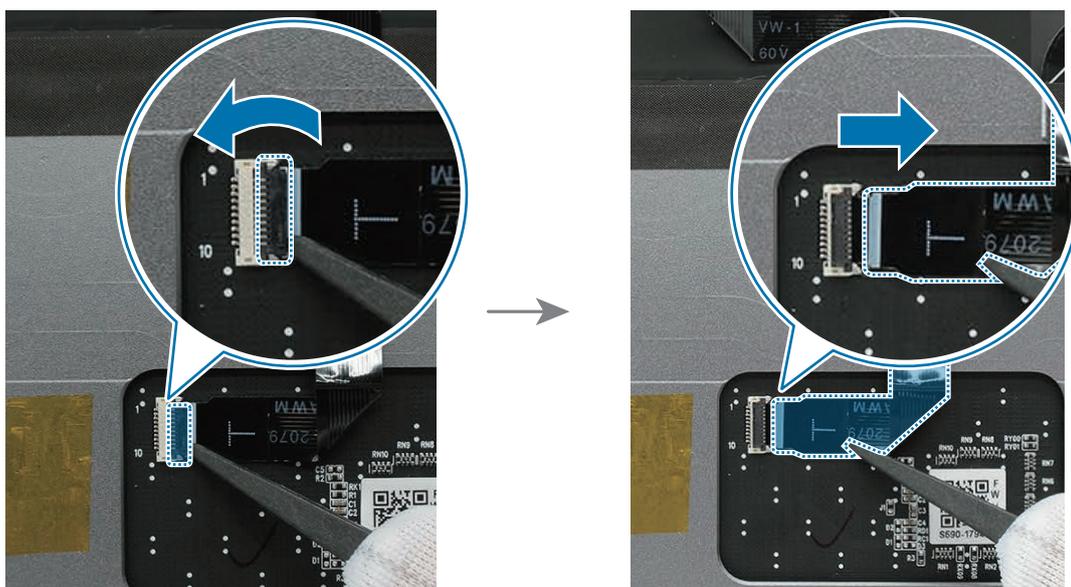
- ✎ Remove the [Case Rear](#), [Battery](#), [Main to Sub Cable](#), [Wi-Fi Antenna and Cable](#), [SSD](#), [Fan](#), [Main PBA and Sub PBA](#), [Display](#), [Fingerprint Sensor](#), and [Speaker](#) first before you begin.

- 1 Using the tweezers, remove the conductive tape and yellow kapton tape from the touchpad.

- ✎ Set aside the conductive tape and yellow kapton tape for later use during the assembly process.

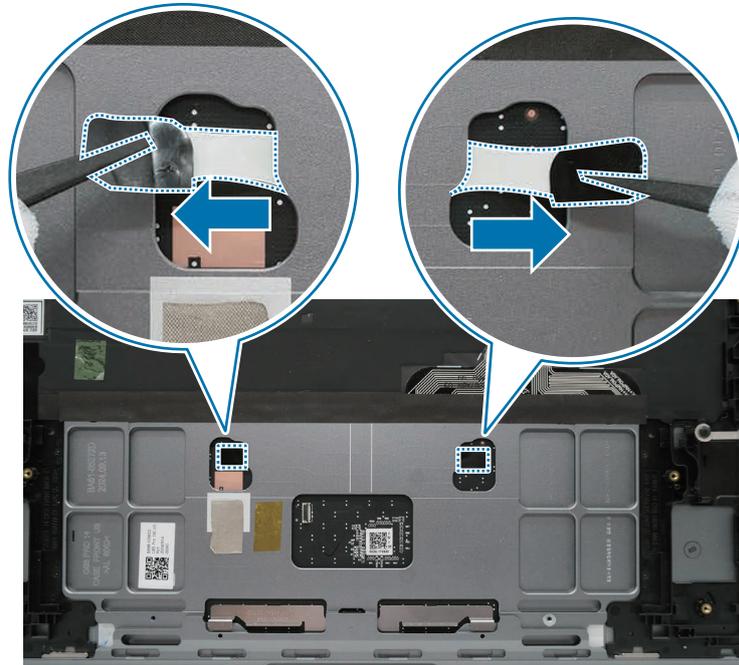


- 2 Using the tweezers, open the touchpad connector lever and disconnect the touchpad cable from the connector.

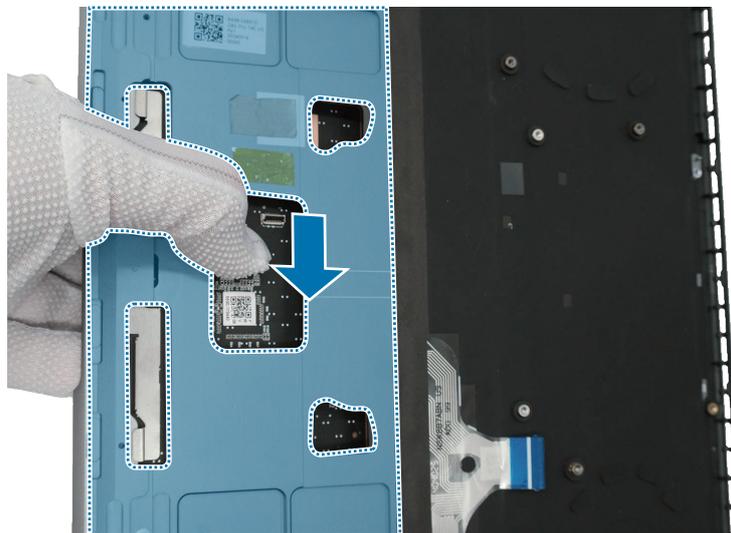


3 Using the tweezers, grasp the 2 tape heads and pull them out to remove the tapes.

⚠ When removing the tape with tweezers, apply a steady force to prevent it from breaking in the middle.



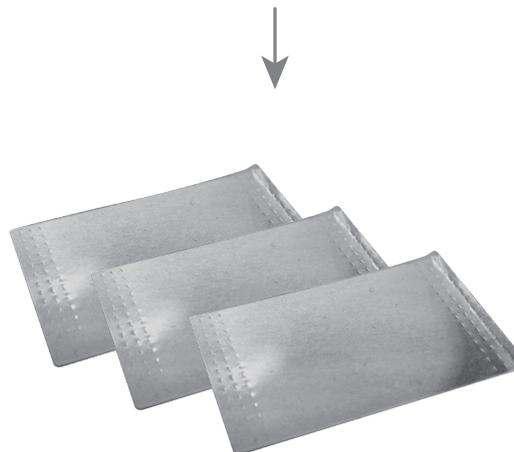
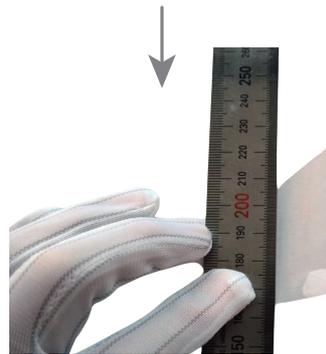
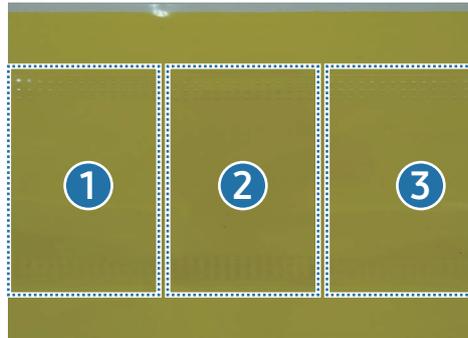
4 Remove the touchpad module by pushing the opposite side of the touchpad module by hand.



Reassembly

 Leaving screws inside the computer may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the computer.

- 1 Film jig is required to assemble the touchpad. Prepare the touchpad film jig including 3 films. Using a ruler, bend the film jig 90° to the dotted line. (3 ea)



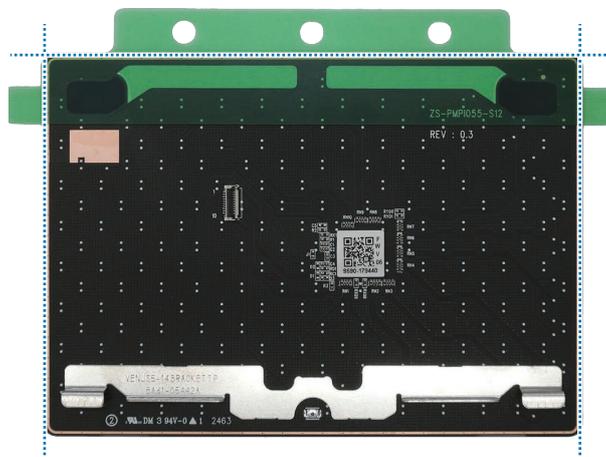
2 Prepare the touchpad adhesive tape.



3 Remove the deformable paper of the touchpad adhesive tape and attach it on the touchpad.

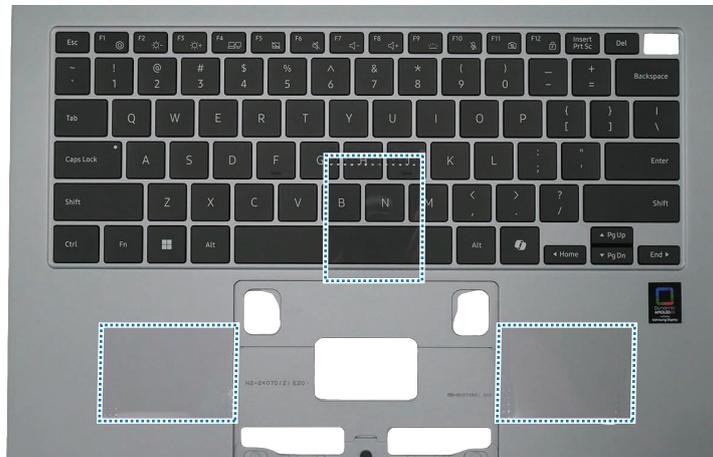
⚠ Attach the touchpad adhesive tape to the touchpad following this picture with the guide line.

✍ Skip this step if you replace the touchpad part. The tape is attached to the touchpad you ordered.

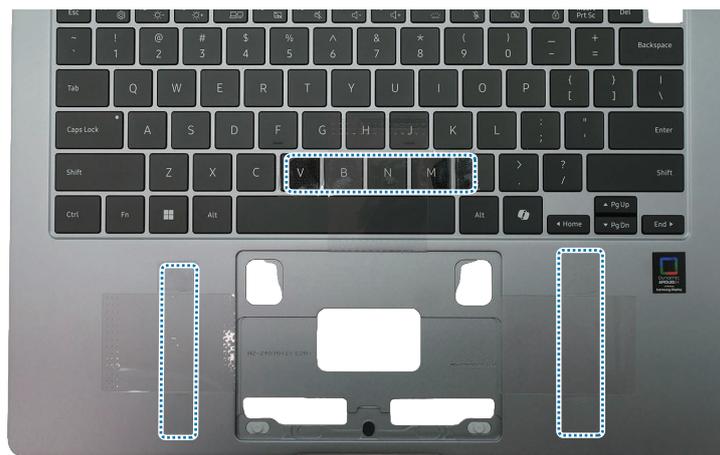


- Place the touchpad film jig on the top/left/right of the touchpad part of the Case front.

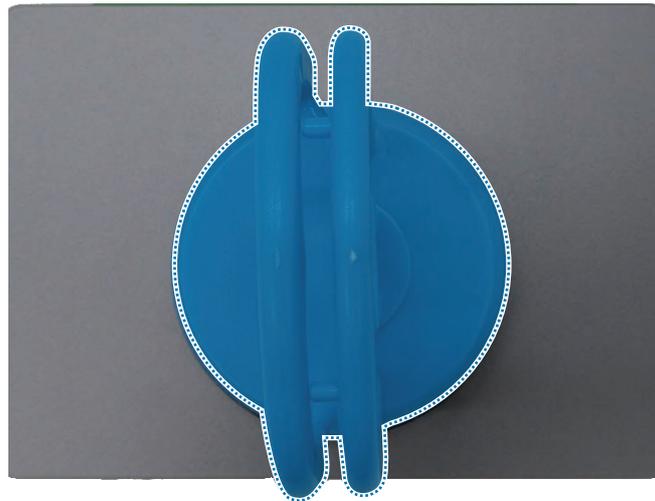
 The touchpad film jig is for making constant appropriate separation.



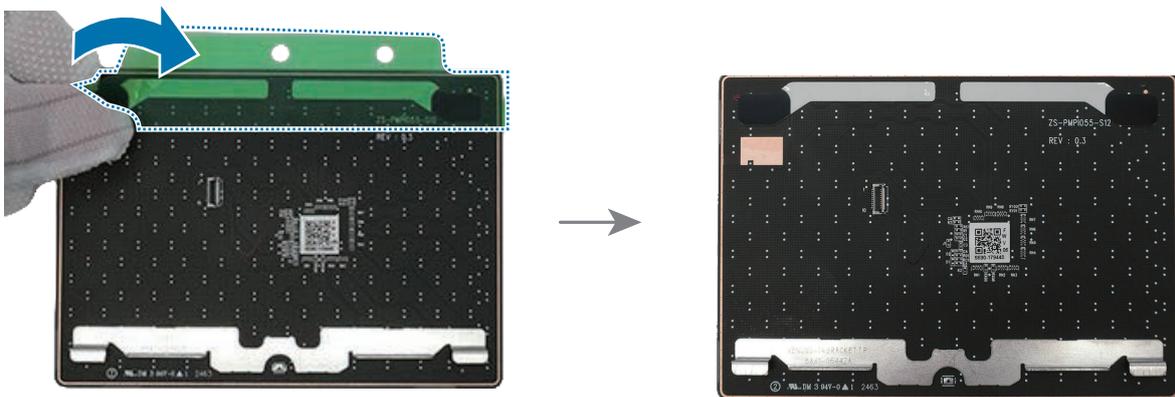
- Attach the tape to each touchpad film jig not to move.



6 Attach the suction cup to the touchpad.

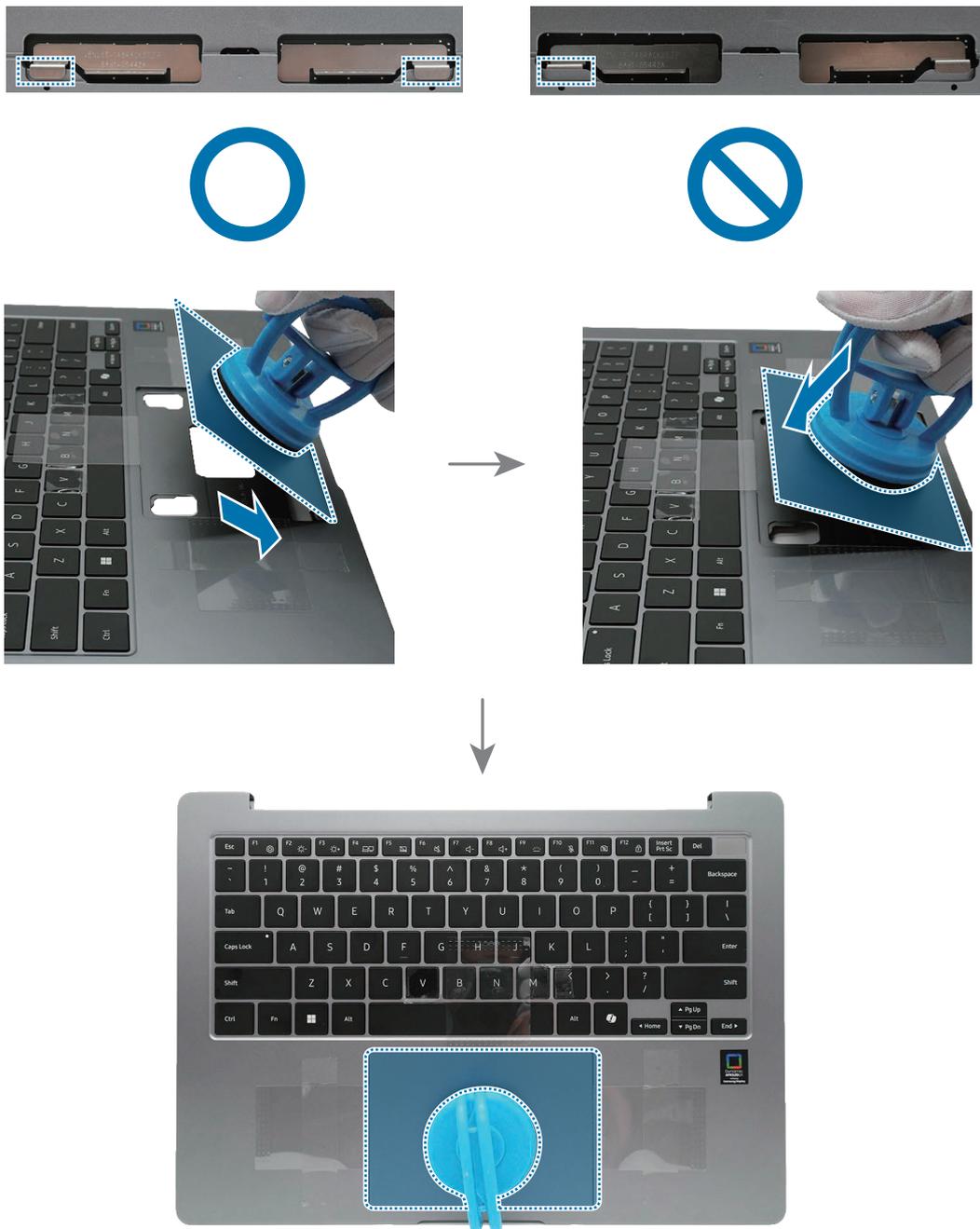


7 Remove the deformable paper. (coloured film)

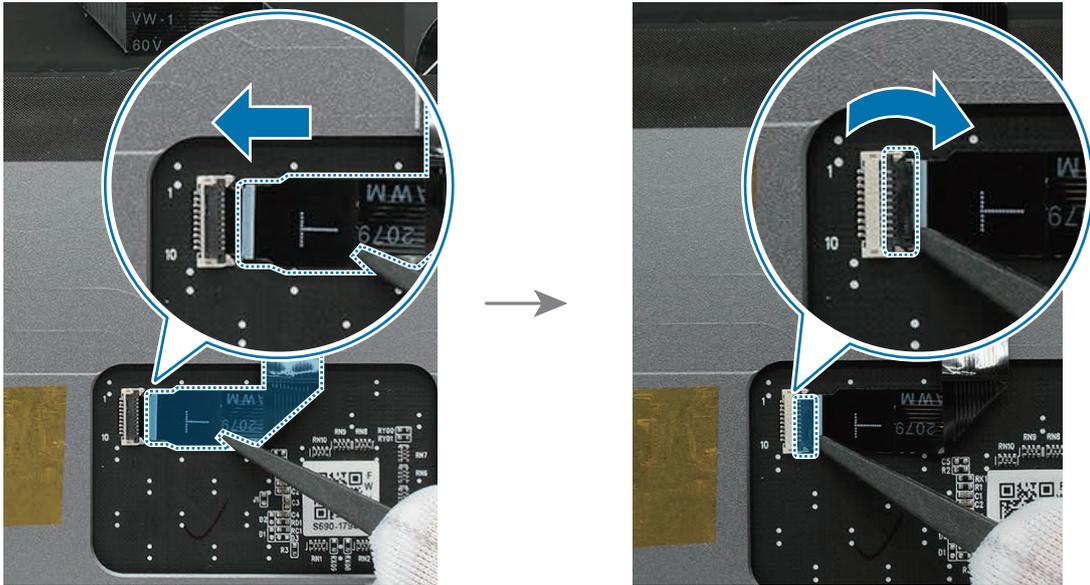


8 Place the touchpad to the Case front. Assemble the bracket on the bottom of the touchpad to the 2 hooks on the Case front.

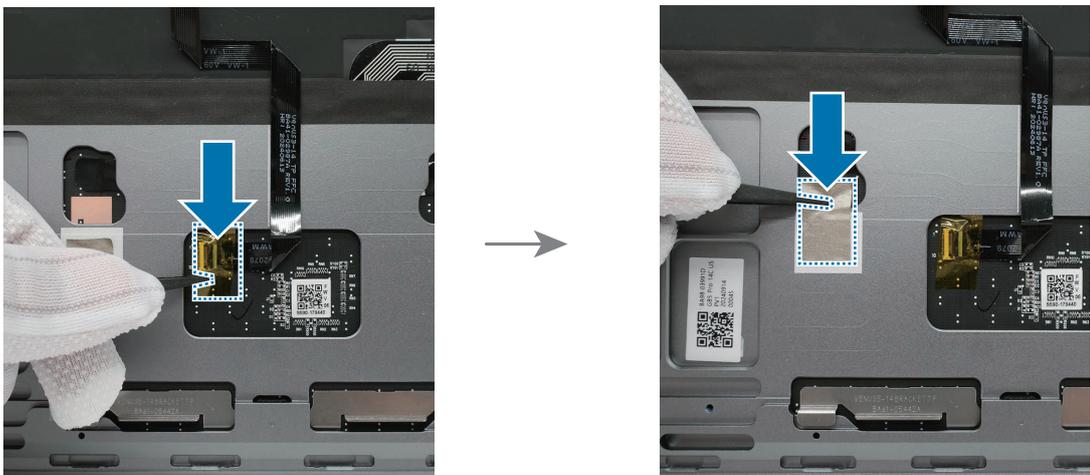
- ⚠ • Attach the touchpad in alignment with the gaps in the up, down, left, and right directions.
- Check the lower hooks of touchpad are assembled well to the Case front. If they are incorrectly connected, the hooks may lift.



- 9 Open the touchpad connector lever, insert the touchpad cable to the connector, and then close the lever.



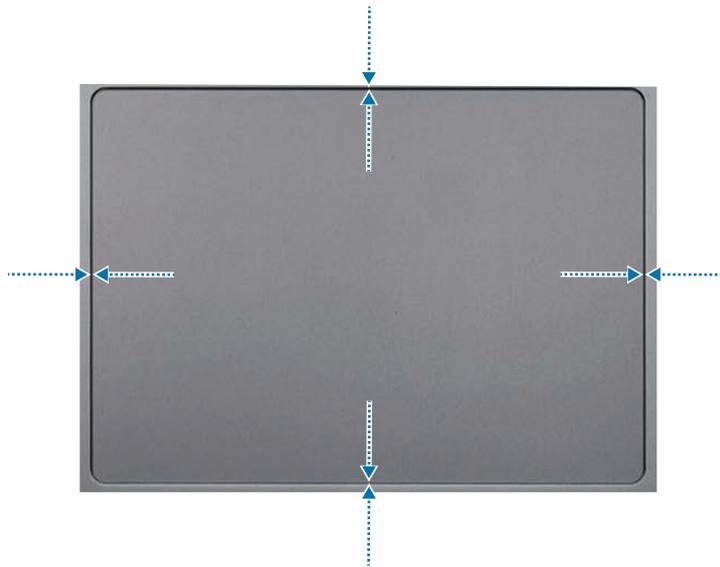
- 10 Attach the yellow kapton tape to the touchpad connector and attach the conductive tape between the Case front and touchpad.



11 Remove the touchpad film jig and tape. (3 ea)



12 Check the gaps (0.1-0.3 mm) in the up, down, left, and right directions.



13 Press the touchpad and make sure the touchpad is attached well.



 Reassemble the [Speaker](#), [Fingerprint Sensor](#), [Display](#), [Main PBA](#) and [Sub PBA](#), [Fan](#), [SSD](#), [Wi-Fi Antenna and Cable](#), [Main to Sub Cable](#), [Battery](#), and [Case Rear](#) to complete assembly.

SAMSUNG

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