

SAMSUNG

REPAIR GUIDE

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SM-F966U
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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.
- Some parts, such as sensors (laser AF/proximity/fingerprint), the rear camera, the TSP (touch panel), speakers, and other components, may need calibration to guarantee their performance after repair.
- The performance of the device's water and dust resistance cannot be guaranteed when it is repaired by the user or another unskilled worker.
- 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, press the Volume Down button and the Side button at the same time, or open the notification panel and tap the Power icon.
- 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 back cover.
- 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 back cover, and be careful not to damage the battery by hitting or denting it. If the battery is damaged, visit a Samsung Service Centre.
- Do not place the device directly into a microwave and heat it.
- 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

Updating Software through FOTA

Update your device's software through the firmware over-the-air (FOTA) service. You can also schedule software updates.

Launch the **Settings** app and tap **Software update** → **Download and install**.


- **Install now:** Install updates.
 - **Schedule install:** Set the time to install updates automatically.
-  • You may incur additional charges when updating the software through a mobile network.
- If the latest software has been downloaded to the device, these options will not appear.

Software Update Failure

If your device becomes disconnected from a network before the update is complete, the update may fail. Reconnect to a network and complete the update.

Updating Software through Smart Switch

You can use Smart Switch to update your device's software to the latest version. You must download the desktop version of the Smart Switch app from www.samsung.com/smartswitch.



-  • This feature may not be supported on some devices or computers.
- Limitations apply. Visit www.samsung.com/smartswitch for details. Samsung takes copyright seriously.

- 1 On the computer, visit www.samsung.com/smartswitch to download Smart Switch.
- 2 On the computer, launch **Smart Switch**.
- 3 Connect your device to the computer using the device's USB cable.
- 4 Click **Update**.

- 5 Read the on-screen instructions and click **Continue**.
- 6 Read the precautions about the update and click **OK**.
- 7 Read and agree to the terms and conditions.
The update will start.



Recovering from a Software Update Failure


If a software update is interrupted because of an error on your device or computer, your device may fail to operate normally. If this occurs, you can perform a factory data reset on your device for emergency recovery.

-  Before performing the factory data reset, remember to make backup copies of all important data stored in the device. Samsung is not responsible for the loss of data stored in the device.
- 1 Disconnect your device from the computer and launch **Smart Switch** again on the computer.
 - 2 Click  → **Emergency Software Recovery and Reset**.
The device list will appear.
 - 3 Click the device that experienced a software update error and click **Device reset** → **OK**.
The device will perform a factory data reset.

Recovering on Another Computer


If the emergency recovery process continues to fail on the computer where the software update failed, you can repair your device on another computer using the recovery code. This will include a factory data reset of your device.

- 
 - Before performing the factory data reset, remember to make backup copies of all important data stored in the device. Samsung is not responsible for the loss of data stored in the device.
 - The recovery code can be found only on the computer where the software update has failed.
- 1 On the computer where the software update has failed, launch **Smart Switch**.
 - 2 Click  → **Emergency Software Recovery and Reset**.

- 3 On the devices list, click the device that failed to update the software and check the recovery code.
- 4 On another computer, launch **Smart Switch**.
- 5 Click  → **Emergency Software Recovery and Reset** → **Emergency code recovery**.
- 6 Enter the recovery code and click **OK**.
- 7 Follow the on-screen instructions to put your device into recovery mode and complete the emergency recovery.

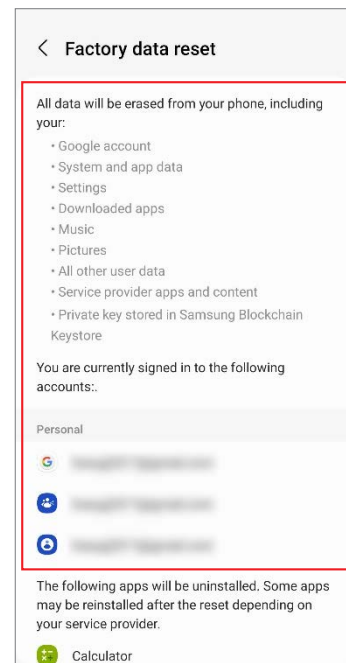
Performing a Factory Data Reset

The factory data reset restores the device's default settings. This erases all data, including files and downloaded apps, from the device.

-  Before performing the factory data reset, remember to make backup copies of all important data stored in the device. Samsung is not responsible for the loss of data stored in the device.


Make sure your device's battery level is sufficient, as losing power during a factory reset may result in system problems.

- 1 Launch the **Settings** app and tap **General management** → **Reset** → **Factory data reset**.
- 2 Read the on-screen instructions and check which account you are signed in with. If your device is signed in to your Google account, log out of your Google account. If you do not log out of your Google account, logging in to another account after the factory data reset will not be possible, because your device will be locked.



3 Tap **Reset** → **Delete all**.

All data will be deleted when rebooting.

-  During a factory data reset, the device may repeat rebooting and the logo may be displayed for a long time.

Quality Test

Quality Test Using the Samsung Members App

It is recommended to evaluate your device through the Samsung Members app after it has been repaired to guarantee its performance. If the test results show any abnormalities or that another malfunction has occurred because of the repair, visit a Samsung Service Centre to receive further instruction. Any malfunctions caused by your repair may incur additional repair charges.

- ✍ • The Samsung Members app is subject to update without any prior notice.
- To use this feature, you must sign in to your Samsung account.
- Some features may not be available depending on the carrier or model.

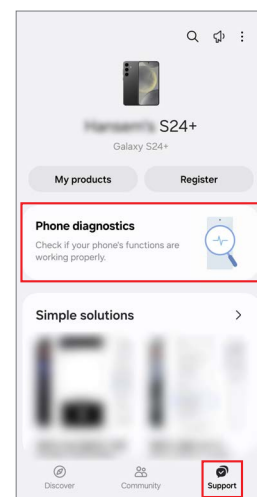
Device Diagnostics

- 1 Launch the **Samsung Members** app.

If you do not have the app, download it from the **Galaxy Store** or **Play Store**.

- 2 Tap **Support** → **Phone diagnostics**.

The diagnostics screen will appear and you can check the test status and items.

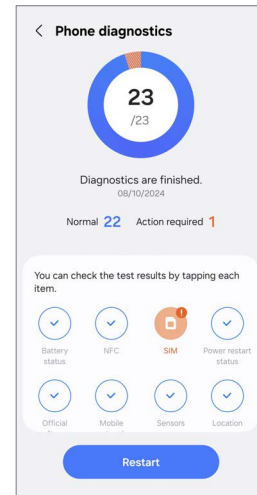


3 Tap **Test all**.

The device performs a test on all items.

When the test is finished, you can check the test results.

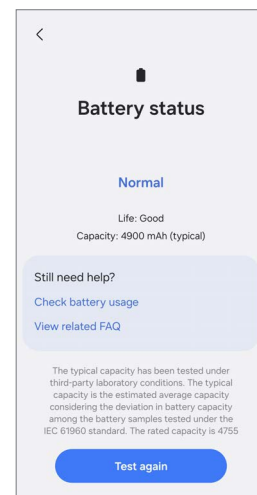
- Tick mark: Working normally
- Exclamation mark: Needs further inspection
- ✍️ • The test proceeds automatically, but you may need to follow the on-screen instructions depending on the test item. Keep an eye on the screen during testing to ensure smooth progress.
- If the exclamation mark appears on any test items after finishing the test, tap them to find the solutions. If the problem persists, visit a Samsung Service Centre.



Test Items

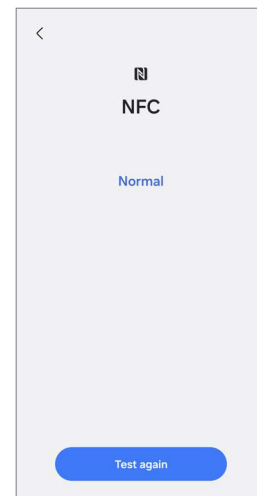
Battery status

Check the battery life and capacity.



NFC

Check whether the near field communication (NFC) feature is working normally.

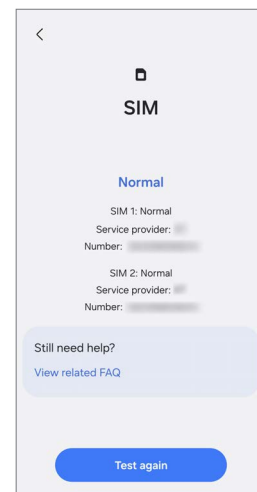


SIM

Check whether the SIM is working normally.

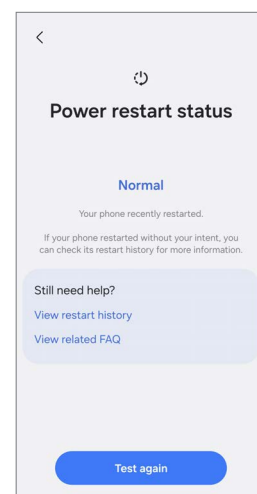


If the test result is not **Normal**, remove the SIM card from the SIM card tray and replace it. If possible, try again with another SIM card.



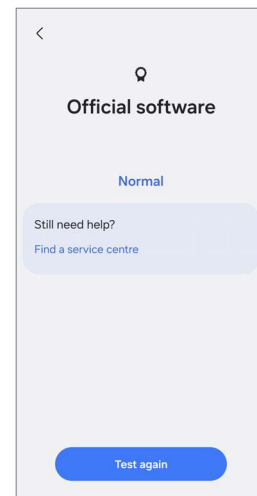
Power restart status

Check whether the device has restarted within the last 7 days.



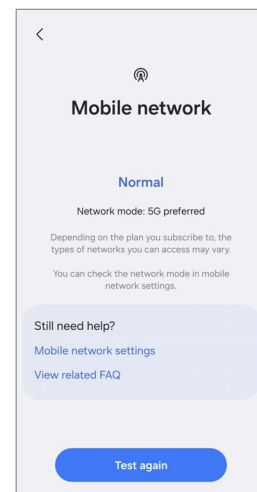
Official software

Check whether the official software is being used.



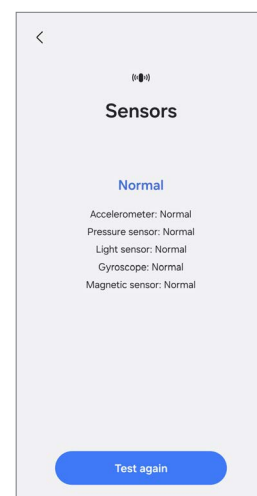
Mobile network

Check whether your mobile network is working normally.




Sensors

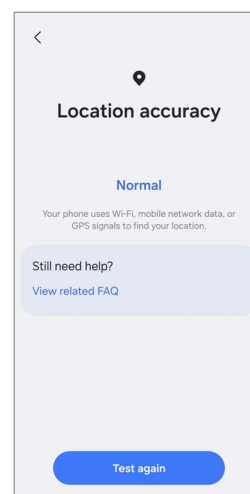
Check whether the sensors are working normally.



Location accuracy


Check whether the location feature is working normally.

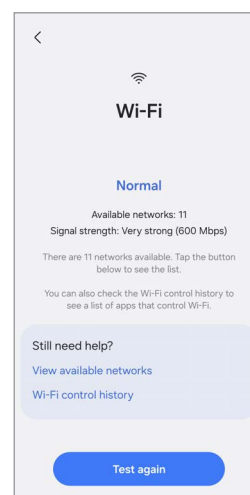
-  The results might be more accurate when you test outside.



Wi-Fi


Check whether the Wi-Fi feature is working normally.

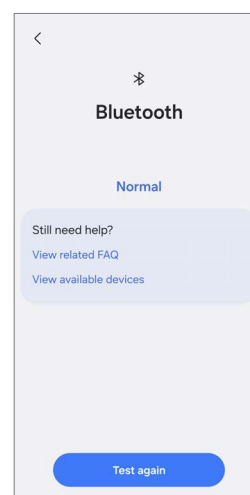
-  To test this feature, the Wi-Fi feature must be activated.



Bluetooth

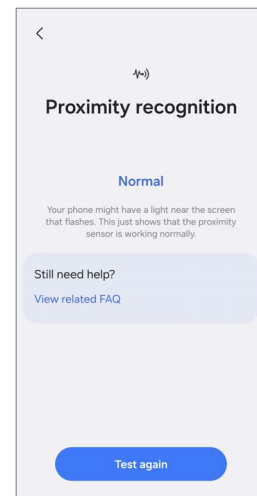
Check whether Bluetooth can search for other Bluetooth devices.

-  To test this feature, the Bluetooth feature must be activated.



Proximity recognition

Check whether the proximity recognition feature is working normally.

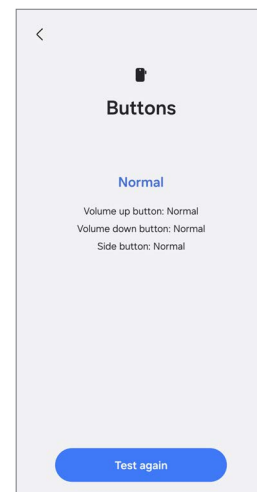


Buttons

Check whether the buttons are working normally.

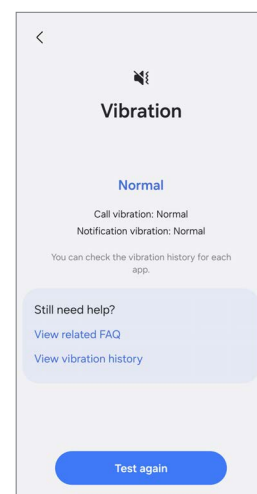


Make sure that the buttons are not contaminated to get more accurate test results.




Vibration

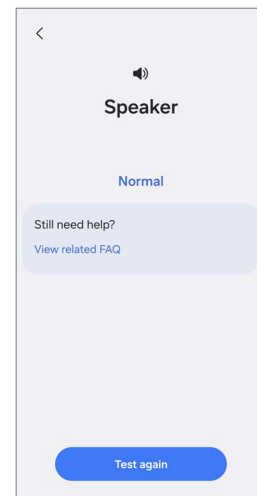
Check whether the vibration feature is working normally.



Speaker



Check whether the speakers are working normally.

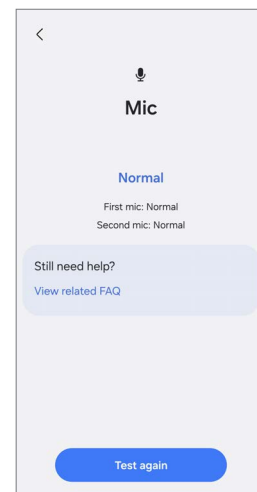
-  If you cannot hear the sound well, check whether the media volume is turned up and if the speaker is obstructed by foreign objects, the case, or the protective film.



Mic


Check whether the microphones are working normally.

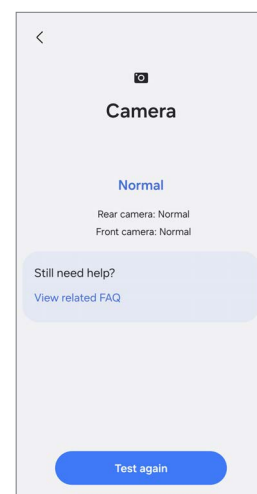
-  The number of tests may vary depending on the model.
-  If you cannot hear anything after recording, check whether the media volume is turned up and if the microphone or speaker is obstructed by foreign objects, the case, or the protective film.



Camera


Check whether the cameras are working normally.

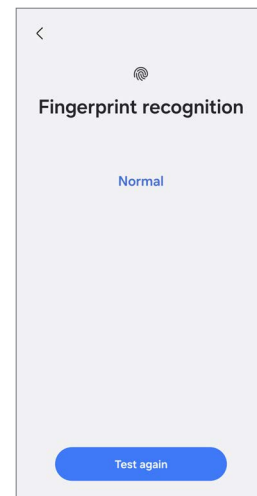
-  To test this more accurately, check if the camera is obstructed by foreign objects, the case, or the protective film.



Fingerprint recognition


Check whether the fingerprint recognition sensor is working normally.

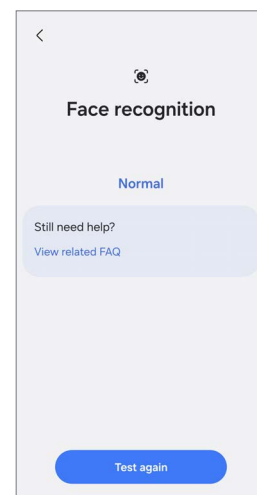
-  To test this feature, your fingerprint must be registered.



Face recognition


Check whether the face recognition sensor is working normally.

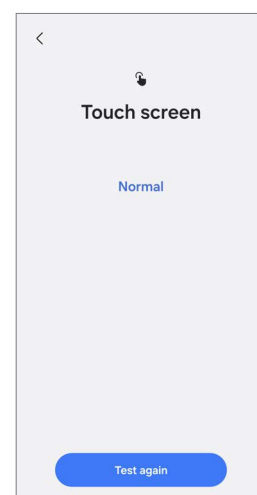
-  To test this feature, your face must be registered.



Touch screen

Check whether touch inputs are recognised normally in all areas of the screen.

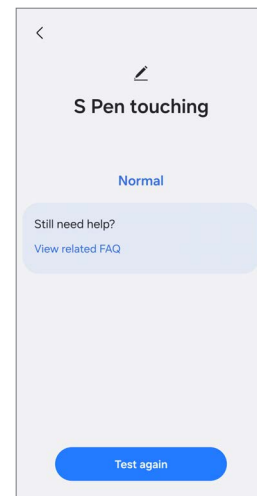
-  Make sure that the screen is clean to get more accurate test results.



S Pen touching

Check whether the S Pen is recognised in all areas of the touch screen.

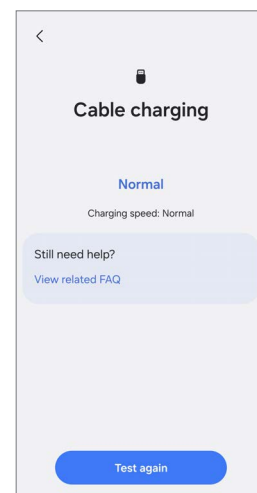
- Make sure that the screen is clean to get more accurate test results.
- This test is only available for the S Pen supported models.



Cable charging

Check whether the cable charging feature is working normally.

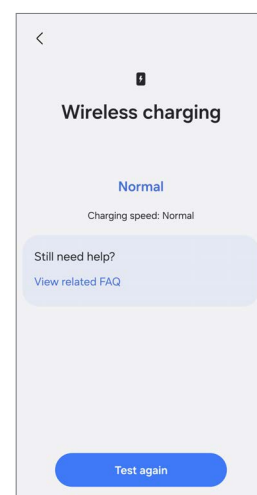
- Use only Samsung-approved chargers.



Wireless charging


Check whether the wireless charging feature is working normally.

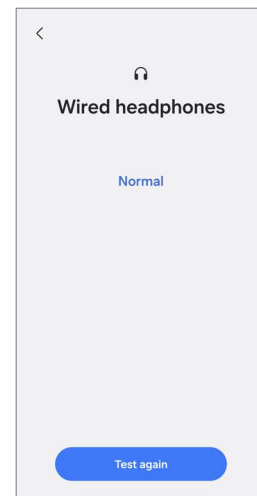
- Use only Samsung-approved wireless chargers.



Wired headphones


Check whether the headphone jack recognises the headphones normally.

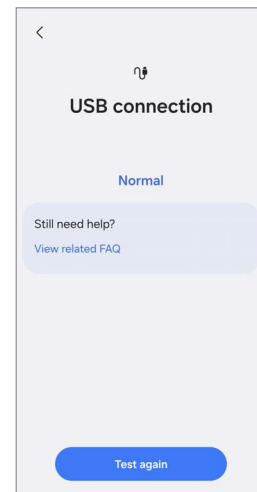
-  To test this feature, you must connect headphones.



USB connection

Check whether the multipurpose jack recognises the USB cable normally.

-  To test this feature, the USB cable must be connected to a computer.



Calibrations

Calibrations

In order to guarantee the stable and correct performance of components or sensors, it is required to conduct calibrations through the **Self Repair Assistant** app after repair.

If the calibration results show any malfunctions, visit a Samsung Service Centre for further action. Any malfunctions caused by your repair may incur additional repair charges.



- The **Self Repair Assistant** app is subject to update without any prior notice.
- In order to conduct the accurate calibrations after repair, visit a Samsung Service Centre or website to buy calibration equipment if you do not have any.

Used Parts and Calibration Functions in Supported Models

The calibration functions are automatically conducted based on the selected parts.

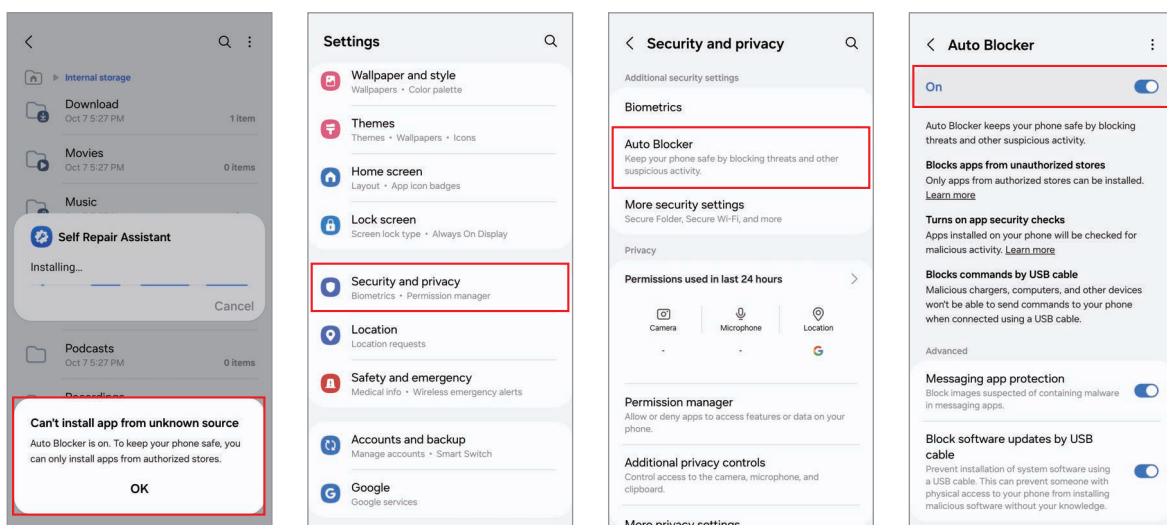
	Screen	Battery	Back Glass	Charging Port	Speaker
Optical Fingerprint Cal.	Yes	No	No	No	No
Range Sensor Cal.	Yes	Yes	Yes	Yes	Yes
Battery Cycle Resets.	No	Yes	No	No	No
Touch Screen Panel Cal.	Yes	No	No	No	No
Speaker Cal.	No	No	No	No	Yes
Under-display Camera Cal.	Yes	No	No	No	No
Digital Hall Sensor Cal.	Yes	No	No	No	No

- Depending on the model, the screen module may include batteries. So when the screen module is replaced, the battery also has to be selected and a battery cycle reset must be performed.
- In the Fold models, touch screen panel calibration is performed for both the main and cover screens.
- Digital hall sensor calibration is only for the Fold and Flip models and under-display camera calibration is only for the Fold models.

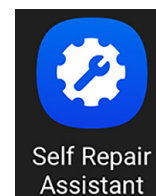
Using the Self Repair Assistant App

1 Download the **Self Repair Assistant** app from **Galaxy Store**.

- For US devices, you need to install the APK file for the **Self Repair Assistant** app manually. However, if the **Auto Blocker** function which is provided from Android OS 14 (U OS) is turned on, you cannot install any APK files manually through the **My Files** app. In this case, launch the **Settings** app, tap **Security and privacy** → **Auto Blocker**, and then tap the switch to turn it off to install the **Self Repair Assistant** app.

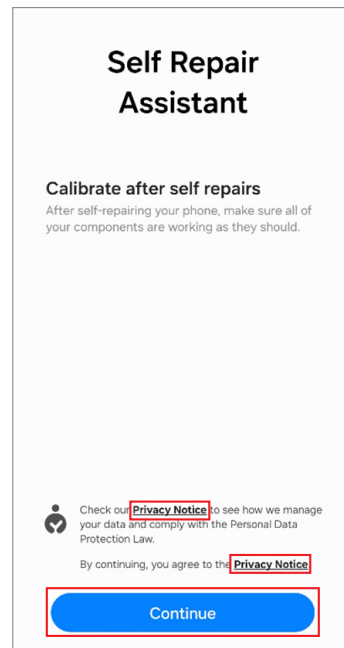
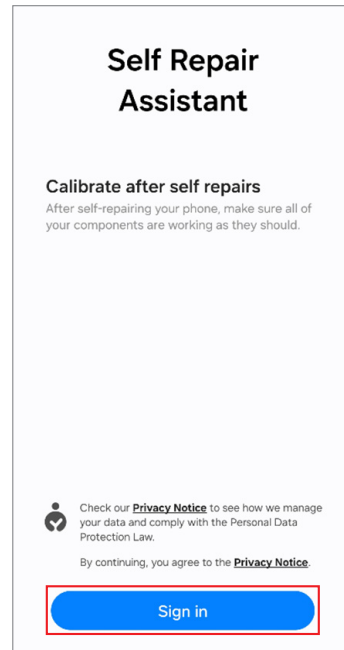


2 Launch the **Self Repair Assistant** app.

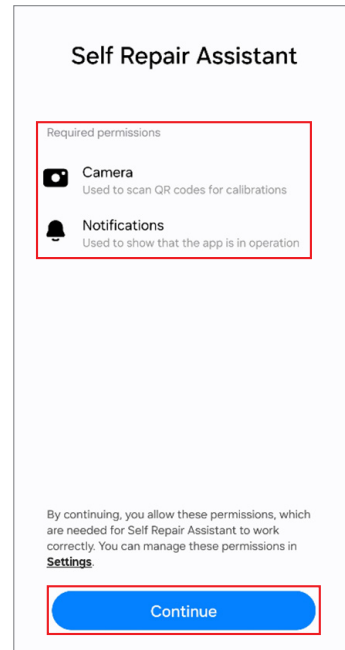


3 Read Privacy Notice and tap **Continue**.

- If you are not signed in to your Samsung account, a button will appear to sign in.
- If you select the link to read the full Privacy Notice, you will be directed to our site.



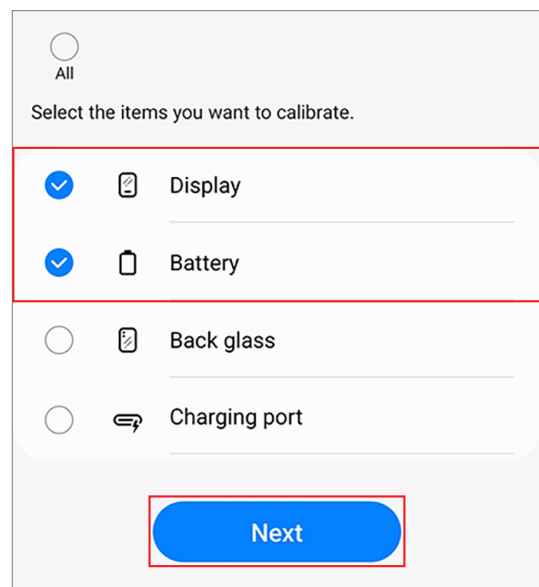
4 Check permissions and tap **Continue**.




5 Select the part that you have replaced and tap **Next**.



- The required calibrations will be conducted automatically.
- If the device does not have certain components or sensors associated with the part that has been replaced, relative calibration will be skipped automatically.



6 Read the on-screen instructions and tap **Start**.

 Refer to [Optical Fingerprint Sensor Calibration](#), [Resetting the Battery Cycle Count](#), [Range Sensor Calibration](#), [Touch Screen Panel Calibration](#), [Speaker Calibration](#), [Under-display Camera Calibration \(Fold Models Only\)](#), and [Digital Hall Sensor Calibration \(Fold and Flip Models Only\)](#) for more information.

Optical fingerprint sensor calibration

This calibration is needed after replacing the phone's screen.

You'll need to place different colored rubber squares on the screen when prompted.

Start

Skip

Camera range sensor calibration

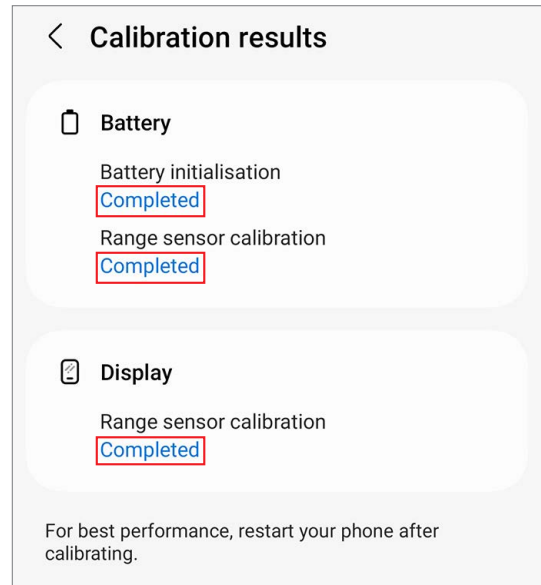
This calibration needs to be done in the dark. Move to a dark room before starting this calibration.

Start

Skip

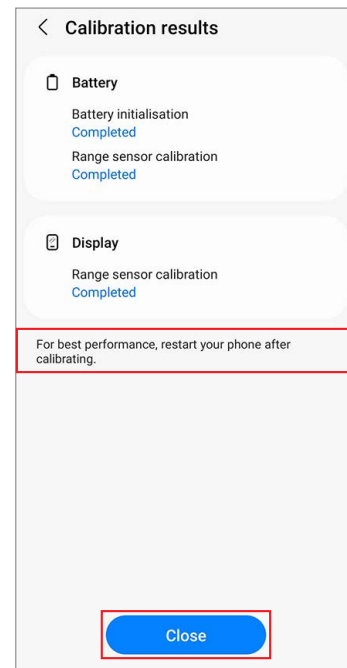
7 Check the results of each calibration item.

- **Completed:** Calibration was done normally.
- **Failed:** Calibration failed.
- **Skipped:** Calibration was skipped.



8 On the calibration results page, tap **Close** to close the app.

Restart your device to finish calibrating.



Optical Fingerprint Sensor Calibration

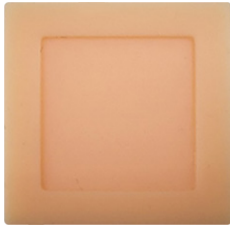
Whenever the screen is replaced, the optical fingerprint sensor must be calibrated to guarantee optimised fingerprint sensor performance for devices that have it.

Optical fingerprint sensor calibration is available through the **Self Repair Assistant** app.



- This feature may not be available depending on the model. The availability of this feature can be automatically checked in the Self Repair Assistant app, so please follow the guidance of the Self Repair Assistant app.
- Three rubbers (the white calibration box, the black calibration box, and the 3D fingerprint dummy rubber) are required to start this calibration.

White calibration box



Black calibration box



3D fingerprint dummy rubber

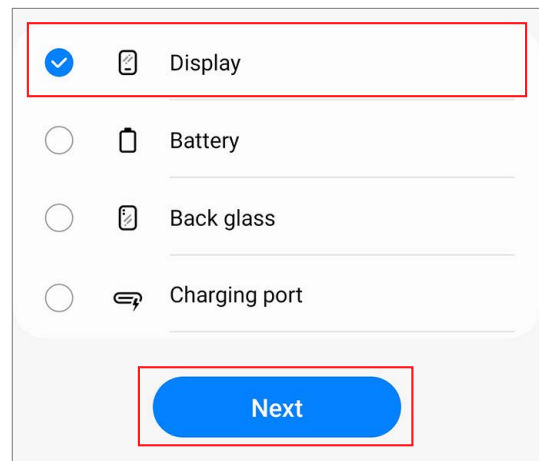


1 Launch the **Self Repair Assistant** app.

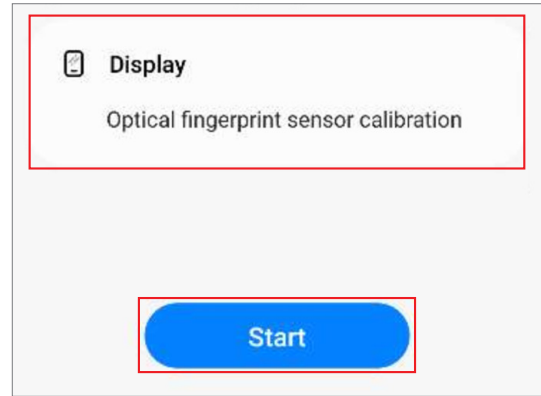
2 Tap **Display** → **Next**.




- The required calibration or test items will be processed automatically.
- If the device does not have certain components or sensors associated with the part that has been replaced, relative calibration will be skipped automatically.

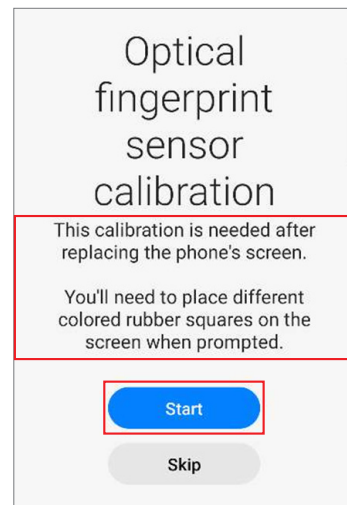


- 3 Check the part and calibration and then tap **Start**.




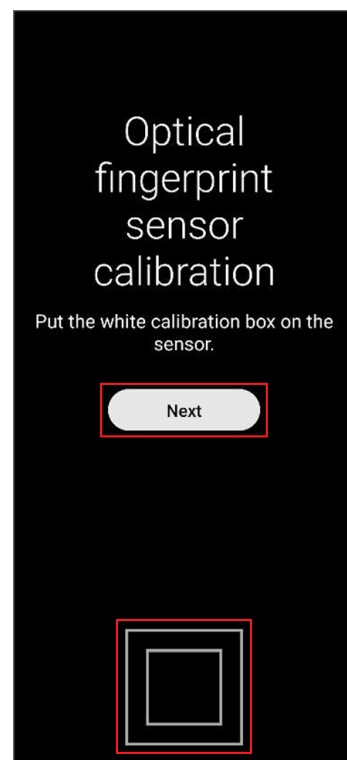
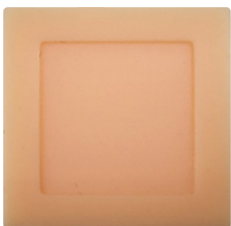
- 4 Read the on-screen instructions and tap **Start**.

-  The white calibration box must be prepared before you start.



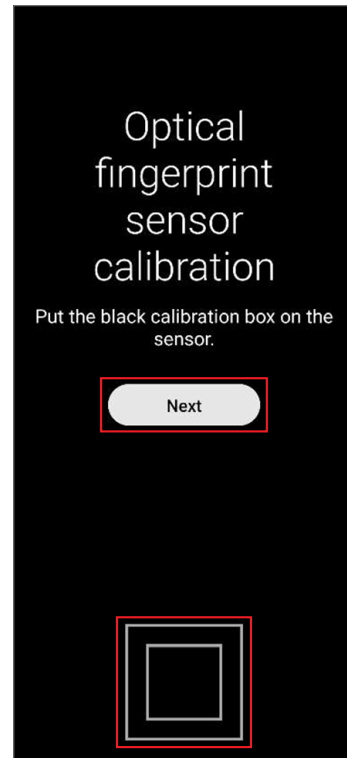
- 5 Put the white calibration box on the sensor area (below the square side) and push the rubber by applying force with your finger. Tap **Next** and keep pushing the rubber with your finger until you see the success message.

-  The bottom side of the rubber that is shaped like a square should be located on the square guide line.



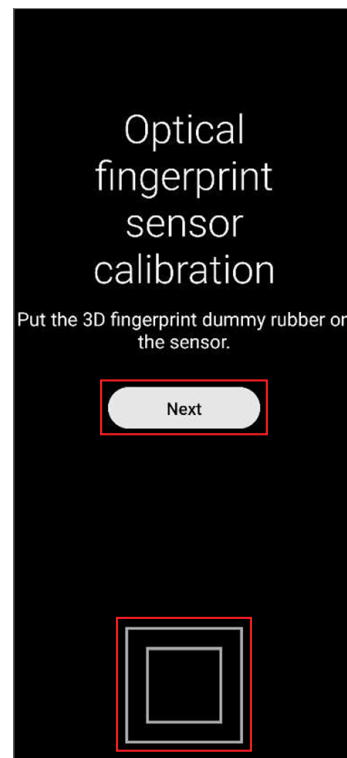
6 Put the black calibration box on the sensor area (below the square side) and push the rubber by applying force with your finger. Tap **Next** and keep pushing the rubber with your finger until you see the success message.

- ✍ • The black calibration box must be prepared before you start.
- The bottom side of the rubber that is shaped like a square should be located on the square guide line.




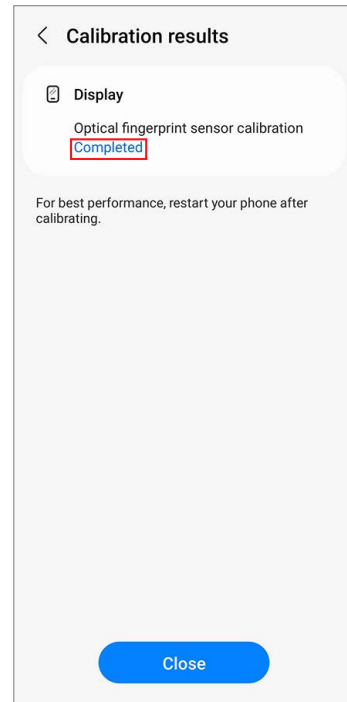
7 Put the 3D fingerprint dummy rubber on the sensor area (below the square side) and push the rubber by applying force with your finger. Tap **Next** and keep pushing the rubber with your finger until you see the success message.

- ✍ • The 3D fingerprint dummy rubber must be prepared before you start.
- The bottom side of the rubber that is shaped like a square should be located on the square guide line. (Do not place the pattern horizontally on the 3D fingerprint dummy rubber.)



8 Check the result of the calibration.

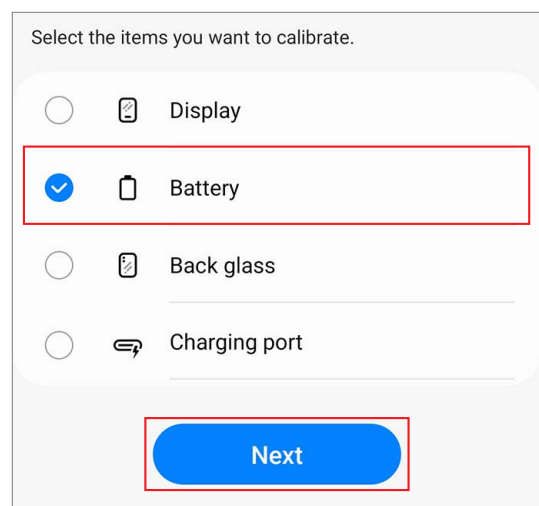
 **Completed** appears only when the calibration is successfully completed. If **Completed** does not appear, try calibrating again.



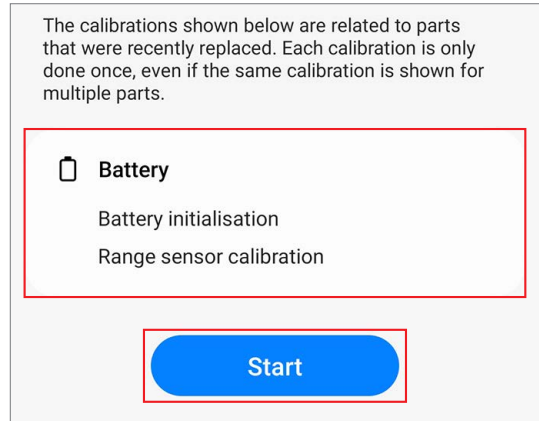
Resetting the Battery Cycle Count

The battery cycle count should be reset whenever your device's battery is replaced.

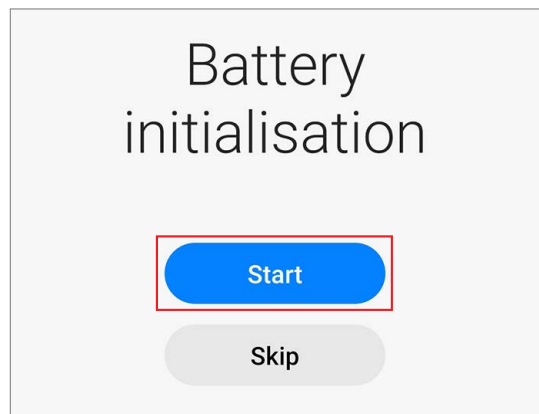
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced. Tap **Battery** → **Next**.



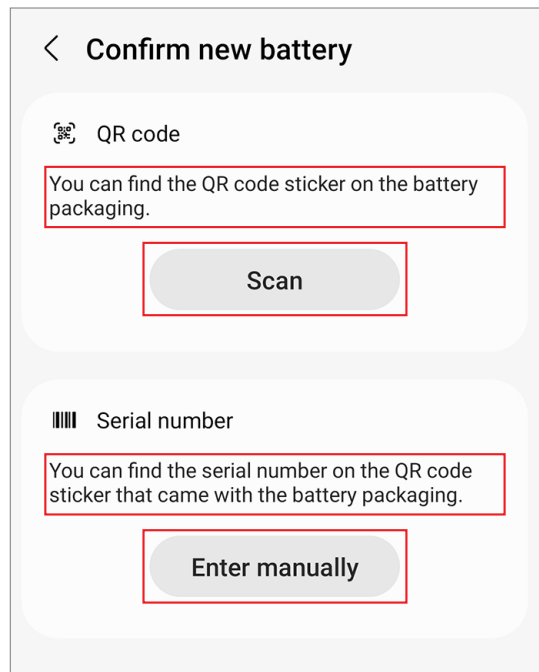
3 Check part and calibration and tap **Start**.



4 Tap **Start**.




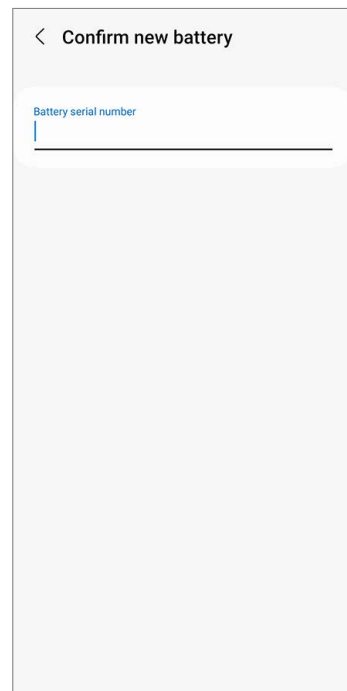
5 Read the on-screen instructions and tap **Scan** to scan the QR code, or tap **Enter manually** to enter the serial number manually.



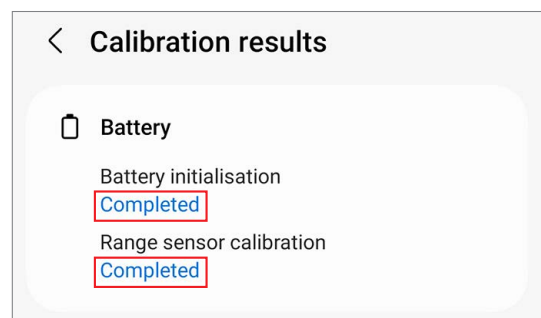
6 Scan the QR code or enter the serial number that appears on the battery package.

The reset will begin.

 This image is an example of the QR code. Make sure to scan the QR code on the battery package.




7 Check the calibration results.



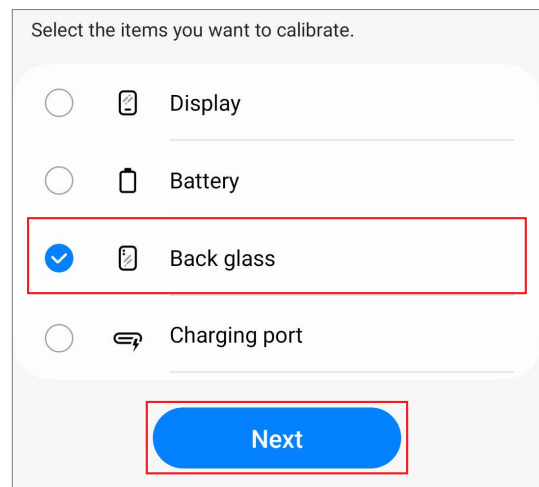
Range Sensor Calibration

When replacing screens, batteries, back glasses, or charging ports, range sensor calibration is required to ensure the range sensors of devices equipped with them are optimised.

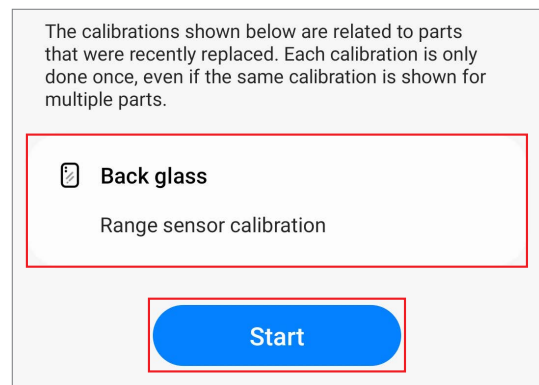
Range sensor calibration is available through the **Self Repair Assistant** app.

 Some content may differ from your device depending on the region, service provider, model specifications, or device's software.

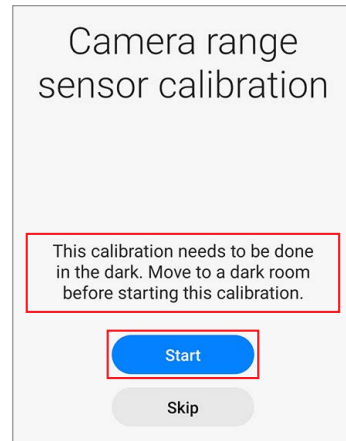
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



- 3 Check part and calibration and tap **Start**.



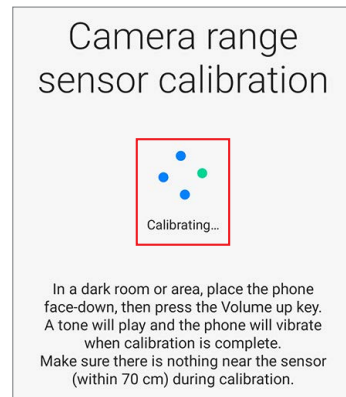
- 4 Read the on-screen instructions and tap **Start**.



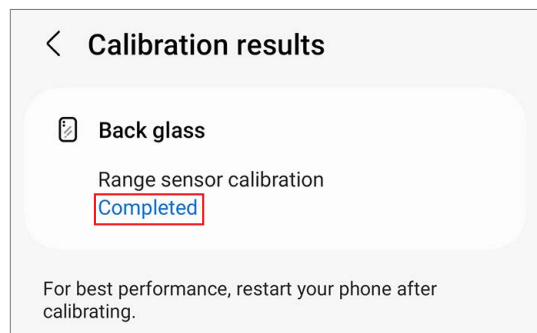
- 5 In a dark room or area, place the phone face-down, then press the Volume button.



- 6 The calibration will perform automatically. A tone will play when calibration is complete.



- 7 Check the calibration result.



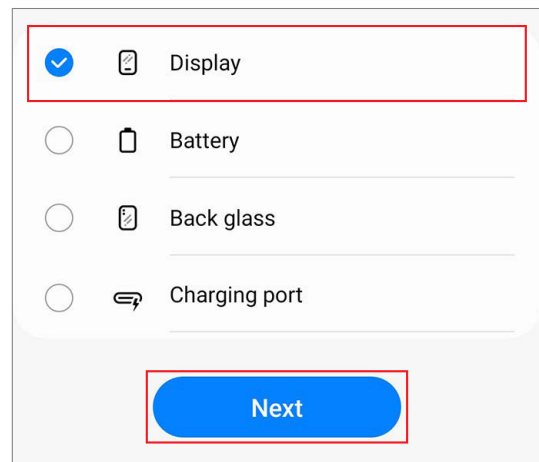
Touch Screen Panel Calibration

When replacing screens, touch screen panel calibration is required to ensure accurate touch input.

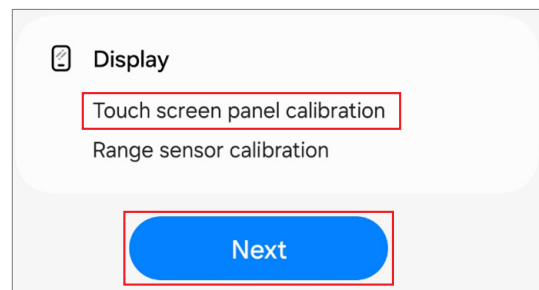
Touch screen panel calibration is available through the **Self Repair Assistant** app.

 In the Fold models, touch screen panel calibration is performed for both the main and cover screens.

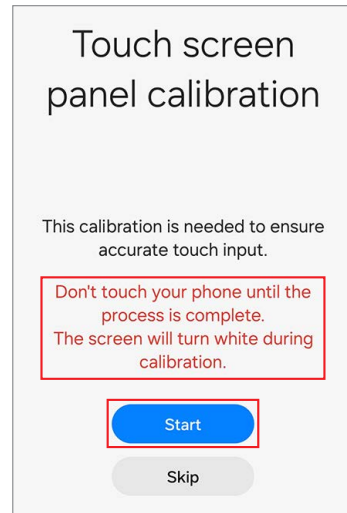
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



- 3 Check part and calibration and tap **Next**.



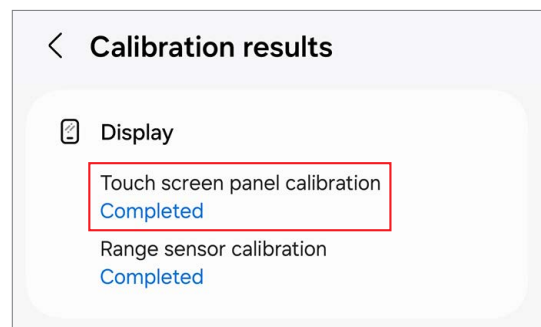
- 4 Read the on-screen instructions and tap **Start**.



- 5 The calibration will perform automatically and the screen will turn white during calibration.



- 6 Check the calibration result.

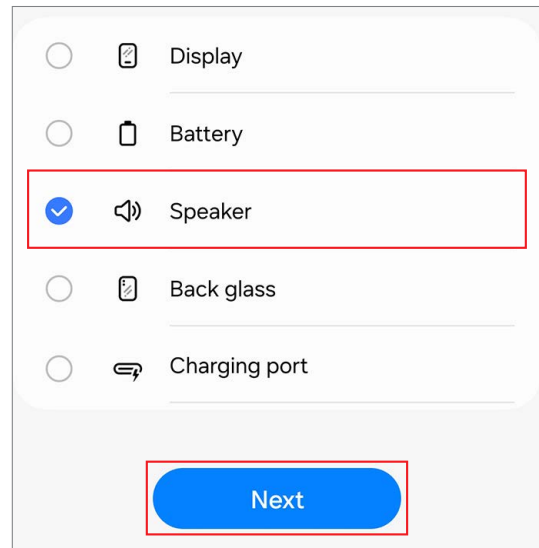


Speaker Calibration

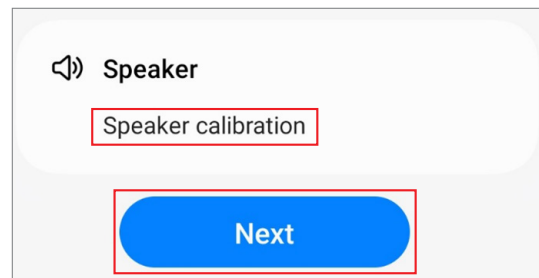
When replacing speakers, the speaker must be calibrated to guarantee optimised speaker performance for devices that have it.

Speaker calibration is available through the **Self Repair Assistant** app.

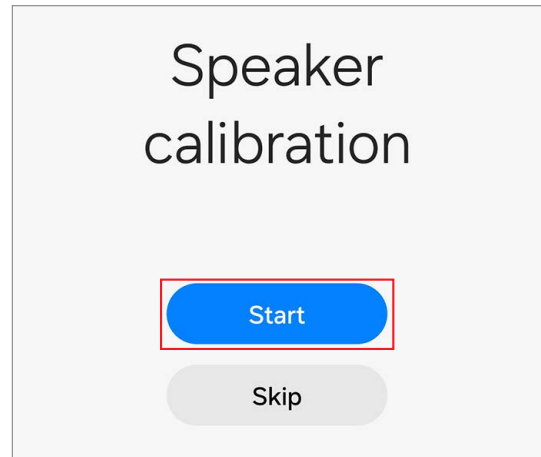
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



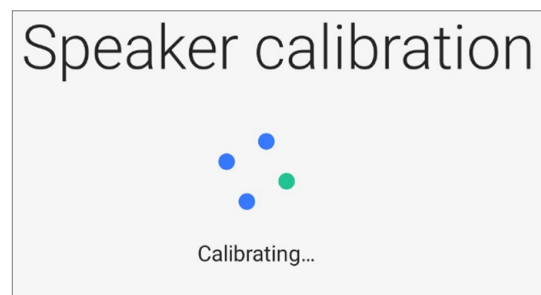
- 3 Check part and calibration and tap **Next**.



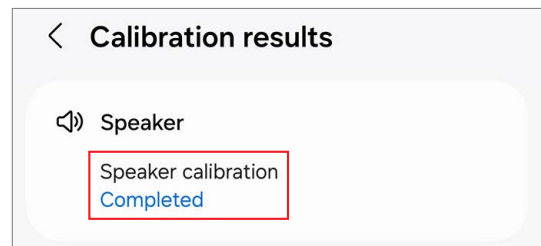
4 Tap **Start**.



5 The calibration will perform automatically.




6 Check the calibration result.



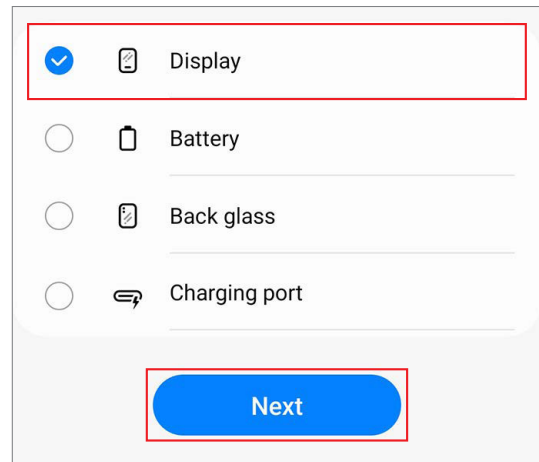
Under-display Camera Calibration (Fold Models Only)

Whenever the screen is replaced, the under-display camera must be calibrated to guarantee optimised under-display camera performance for devices that have it.

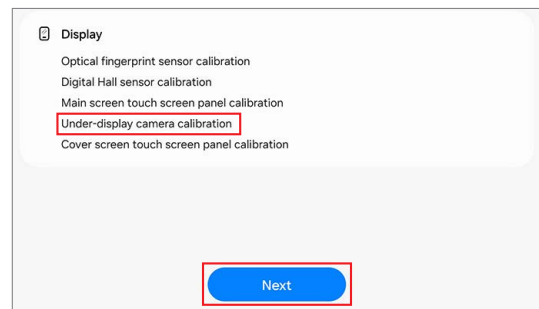
Under-display camera calibration is available through the **Self Repair Assistant** app.

 This feature may not be available depending on the model. The availability of this feature can be automatically checked in the Self Repair Assistant app, so please follow the guidance of the Self Repair Assistant app.

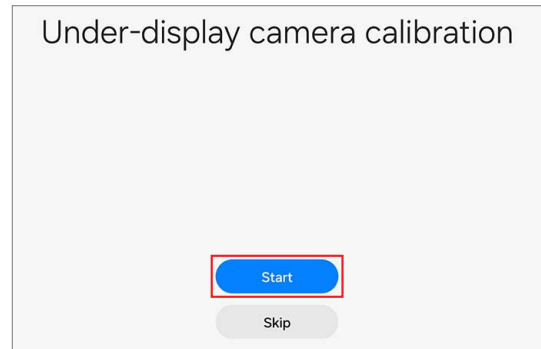
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



- 3 Check part and calibration and tap **Next**.

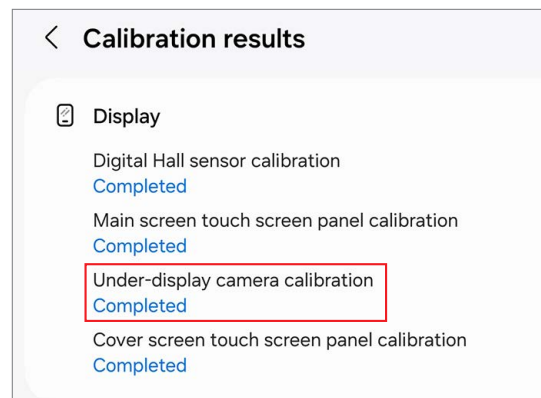


4 Tap **Start**.



5 The calibration will perform automatically.

6 Check the calibration result.



Digital Hall Sensor Calibration (Fold and Flip Models Only)

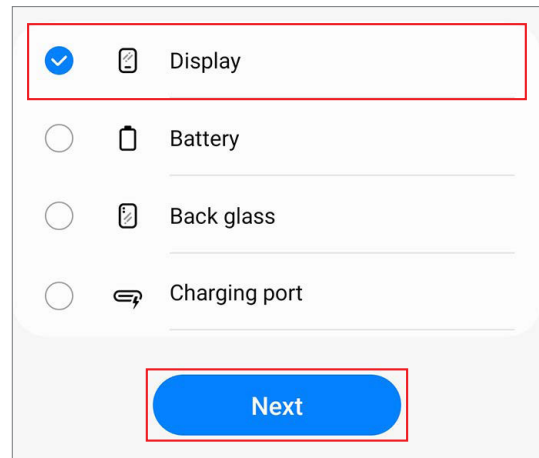
Whenever the screen is replaced, the digital hall sensor must be calibrated to guarantee optimised digital hall sensor performance for devices that have it.

Digital hall sensor calibration is available through the **Self Repair Assistant** app.

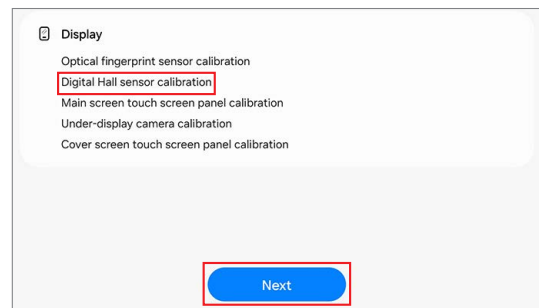


- This feature may not be available depending on the model. The availability of this feature can be automatically checked in the Self Repair Assistant app, so please follow the guidance of the Self Repair Assistant app.
- **For Fold models:** If the main screen does not turn on after being replaced (the main screen is off and the cover screen is on when the device is unfolded), follow the steps below to perform digital hall sensor calibration. The boot screen (the screen where the Samsung and carrier logos appear) will appear normally and then turn off, so it is not a hardware failure.
 - 1) Fold the device and launch the **Self Repair Assistant** app on the cover screen.
 - 2) Move to the digital hall sensor calibration screen, unfold the device, and then press the Volume Up button or the Volume Down button.
 - 3) You will hear a vibration, and the calibration will be performed automatically.
When calibration is complete, the main screen will turn on normally.
- **For Flip models:** If the main screen does not turn on after being replaced (the main screen is off and the cover screen is on when the device is unfolded), follow the steps below to force the main screen to turn on and perform digital hall sensor calibration. The boot screen (the screen where the Samsung and carrier logos appear) will appear normally and then turn off, so it is not a hardware failure.
 - 1) Connect the USB cable to the device, and connect the other end of the USB cable to the USB power adapter or your computer.
 - 2) While pressing and holding the Side button, press the Volume Up button once and the Volume Down button twice.
 - 3) When the main screen turns on, perform digital hall sensor calibration.

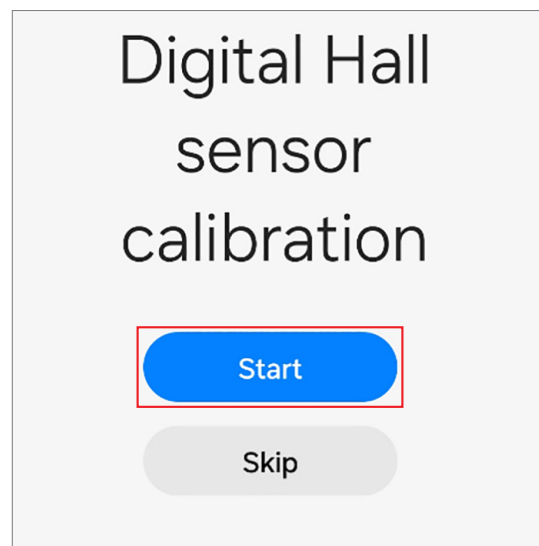
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



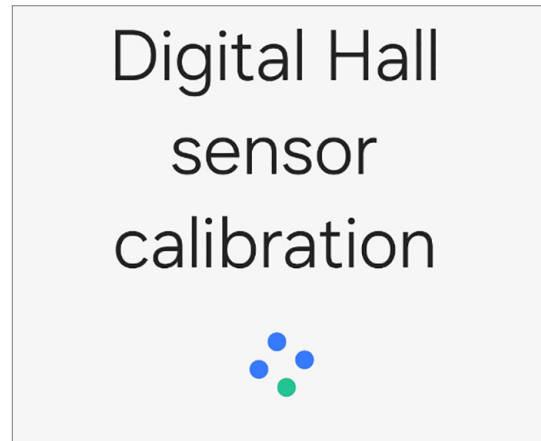
- 3 Check part and calibration and tap **Next**.



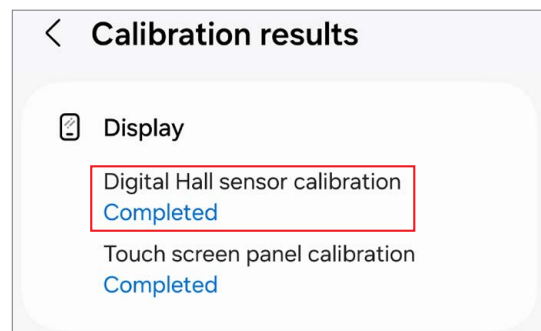
- 4 Tap **Start**.



5 The calibration will perform automatically.



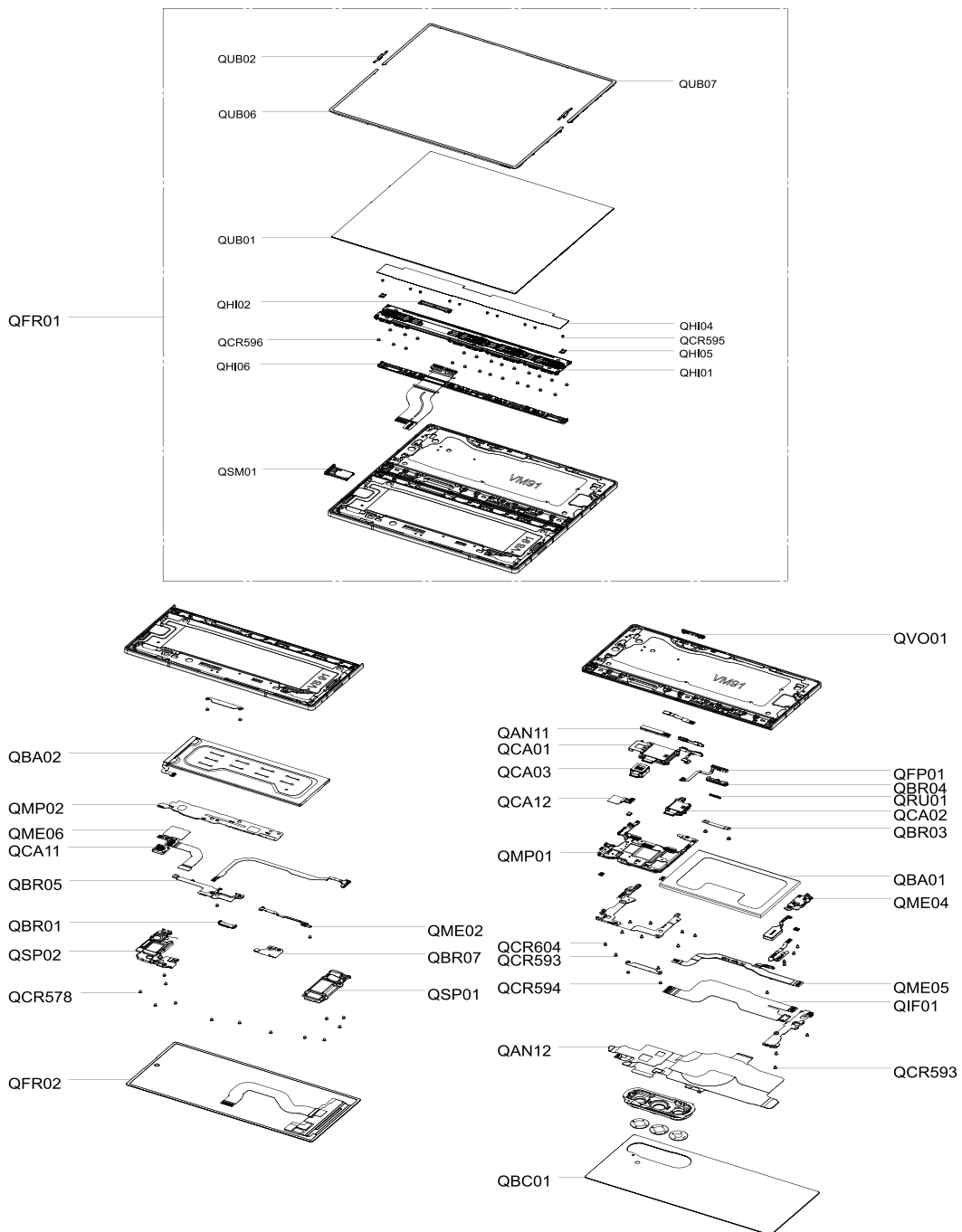
6 Check the calibration result.



Exploded View and Parts List

- The 5G mmWave antenna modules are only supplied with United States devices.
- The product's composition may vary depending on the country, region, or carrier.

Exploded View



Parts List


Number	Name
QCR593	Screw 3593
QAN12	Wireless Charging Module
QCR578	Screw 3578
QCA11	Cover Camera
QME02	Sub Antenna
QSP01	Bottom Speaker
QAN11	5G mmWave Antenna
QBR07	Con Cap
QBR05	Rear Mid
QBR01	Cover Screen's Flexible Cable Connector Cover
QME04	Lower Board
QCR594	Screw 3594
QRU01	Key Rubber
QV001	Volume Key
QBR04	Fingerprint Bracket
QBR03	Fingerprint Sus
QCA03	Ultra Wide Camera
QCA02	Tele Camera
QCA01	Wide Camera
QCR604	Screw 3604
QBC01	Back Cover
QSM01	SIM Card Tray
QMP01	Main Board
QMP02	Sub PBA
QME06	Cover Camera FPCB




Number	Name
QCA12	Front Camera
QME05	FRC FPCB
QIF01	Charging Port
QUB01	Main Screen
QFR02	Cover Screen
QBA02	Sub Battery
QBA01	Main Battery
QFP01	Fingerprint Key
QSP02	Top Speaker
QCR595	Screw 3595
QCR596	Screw 3596
QHI01	Hinge
QHI02	Hinge Centre Bar
QHI04	CFRP (Carbon Sheet)
QHI05	Housing Cap
QHI06	Hinge Housing
QUB02	P-cap
QUB06	Left Deco
QUB07	Right Deco







Disassembly and Assembly




Tools for Disassembly and Assembly





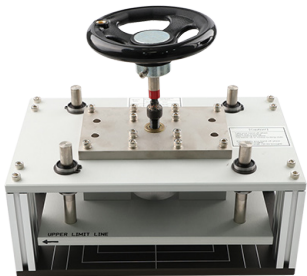



When repairing devices, you absolutely must wear protective equipment for your safety.

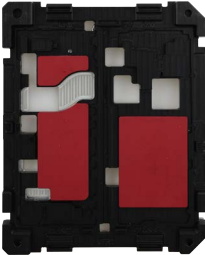





-  Availability of rental services for toolkits with a complete set of tools for self repair service may vary depending on the country and is currently available only in limited countries.







Tool	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)









Tool	Image	Description
Anti-static Wrist Strap		Prevents electrostatic damage (recommended)
ESD Safe Mat		Prevents electrostatic damage (recommended)
Ejection Pin		Pin for ejecting the SIM card tray
Cross-head Screwdriver		Tool for screwing in cross-head screws
Opening Pick		Tool for disassembling the back cover, screen, and other parts
Opening Tool		Tool for disassembling the connector and other parts
Metal Opening tool		Tool for disassembling the cover screen
Suction Cup		Tool for disassembling the back cover, screen, and other parts ⚠ For separable handle suction cups, be careful not to injure yourself as the handle can be parted during use.




Tool	Image	Description
ESD Safe Tweezers and Round Tip Metal Tweezers		<p>Tool for handling connectors, cables, and other parts</p> <ul style="list-style-type: none"> ✍ • Because it is possible to damage parts or components when using sharp tweezers, use tweezers made with plastic or rubber material. • When removing a vibrator motor, it is required to use the round tip metal tweezers.
Heating Bag		<p>Tool for disassembling the back cover, screen, and other parts</p>
Acrylic Protective Cover for Broken Glass		<p>Prevents injuries and scattering caused by broken glass</p> <ul style="list-style-type: none"> ✍ The purchased acrylic protection cover can be used by cutting it appropriately according to the size and shape of the device.





Tool	Image	Description
Disposable Piston		<p>Tool for applying the adhesive</p> <p> • This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p> <p>• The actual appearance of the piston may be different from the image.</p>
Disposable Needle		<p>Tool for applying the adhesive</p> <p> • This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p> <p>• The actual appearance of the needle may be different from the image.</p>
Press Fixture		<p>Tool for pressing the back cover, cover screen, and main screen</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>
Main Screen Attachment Tray		<p>Tool to attach the screen when assembling the main screen</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>

Tool	Image	Description
Main Screen Bottom Press Tray	 A black plastic tray with two red rectangular sections in the center, used for pressing the main screen or hinge.	<p>Tool to place the device when assembling the main screen or the hinge</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>
Back Cover Top Press Tray	 A black plastic tray with a white oval cutout in the center, used for pressing the top and bottom of the device when assembling the back cover.	<p>Tool to press the top and bottom of the device when assembling the back cover</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>
Cover Screen Top Press Tray	 A black plastic tray with a white oval cutout in the center, used for pressing the top and bottom of the device when assembling the cover screen.	<p>Tool to press the top and bottom of the device when assembling the cover screen</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>

Tool	Image	Description
<p>Back Cover/Cover Screen Bottom Press Tray</p>		<p>Tool to press the top and bottom of the screen when assembling the back cover or cover screen</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>
<p>Main Screen Right Press Tray</p>		<p>Tool to press the right screen of the main screen when assembling the main screen</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>
<p>Main Screen Left Press Tray</p>		<p>Tool to press the left screen of the main screen when assembling the main screen</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>



Tool	Image	Description
Deco Press Tray		<p>Tool to press the deco when assembling the main screen</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>
Carbon Sheet Attachment Tray		<p>Tool to attach the carbon sheet when assembling the hinge</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>
Carbon Sheet Press Tray		<p>Tool to press the carbon sheet when assembling the hinge</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>
Press Stamp		<p>Tool for pressing the cover screen or battery</p> <p> • Availability of the bundled press stamp may vary depending on the country and is currently available only in limited countries.</p> <p>• You can change the roller and stamp with one handle.</p>



Tool	Image	Description
Press Roller		<p>Tool for pressing the back cover or cover screen</p> <ul style="list-style-type: none"> ✍ <ul style="list-style-type: none"> • Availability of the bundled press roller may vary depending on the country and is currently available only in limited countries. • You can change the roller and stamp with one handle.
Main Screen Removal Fixture		<p>Tool for removing the main screen</p> <ul style="list-style-type: none"> ✍ <ul style="list-style-type: none"> • This fixture is only available to use when rental or purchased for self repair service. Availability may vary depending on the country and is currently available only in limited countries. • Fixture comes fully mechanically assembled and ready for use.
Protector Film Bottom Tray		<p>Tool to attach the protect film for the main screen without any dust or debris</p> <ul style="list-style-type: none"> ✍ <ul style="list-style-type: none"> • This tool is available when the protector film is purchased.


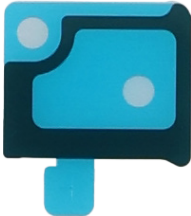



Tool	Image	Description
Film Fixture		Tool for fixing the protective film  This tool is available when the protector film is purchased.
Protector Film Roller		Tool to attach the protect film for the main screen without any dust or debris  This tool is available when the protector film is purchased.






Fasteners (Adhesives and Materials) for Assembly






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



Item	Quantity	Image	Description
Back Cover Adhesive Tape	1		Double sided adhesive tape for attaching the back cover to the metal frame and rear case of the device
3rd Microphone Hole Tape	1		Double sided adhesive tape around a microphone hole
Screw 3593	14		<p>Screws for the wireless charging module (9 ea)</p> <p>Screw for the bottom board (1 ea)</p> <p>Screw for the FPCB (1 ea)</p> <p>Screws for the charging port (2 ea)</p> <p>Screw for the main FRC (1 ea)</p>

Item	Quantity	Image	Description
Screw 3578	15		Screws for the top speaker (5 ea) Screws for the bottom speaker (5 ea) Screw for the sub PBA (1 ea) Screws for the mid (2 ea) Screw for the sub antenna (1 ea) Screw for the con cap (1 ea)
Screw 3594	2		Screws for the fingerprint key
Screw 3596	24		Screws for the hinge
Screw 3595	10		Screws for the hinge housing
Screw 3604	4		Screws for the main PBA
Ultra Wide Camera Tape	1		Tape for attaching the ultra wide camera
Main UB WP1 Tape	1		Tape for attaching the main screen

Item	Quantity	Image	Description
Main UB WP2 Tape	1		Tape for attaching the main screen
SIM Sub Tape	1		Tape for attaching the cover camera
CFRP Bond Adhesive (FULLER EH9377)	1		Deco bond/CFRP bond
CIPG DY-163	1		Adhesive for the fingerprint sensor and hinge assy
FRC FPCB Tape	1		Double sided adhesive tape to attach the FRC FPCB

Item	Quantity	Image	Description
Cover Screen Adhesive Tape	1		Double sided adhesive tape for attaching the cover screen to the metal frame
Cover Screen Inner Right Tape	1		Double sided inner right tape for attaching the cover screen to the metal frame
Cover Screen Inner Left Tape	1		Double sided inner left tape for attaching the cover screen to the metal frame
5G mmWave Antenna Module (V) Adhesive Tape	1		Adhesive tape to attach the left 5G mmWave antenna to the metal frame  The 5G mmWave antenna is only available for United States devices.

Item	Quantity	Image	Description
VT Camera Tape	1		Adhesive tape to attach the main front camera
VT Camera Tape Side 2	2		Adhesive tape to attach the main front camera at the side wall of the main front camera location
VT Camera Tape Side 1	1		Adhesive tape to attach the main front camera at the side wall of the main front camera location
Sub Battery Sponge	1		Sponge tape to attach to the sub battery
Main Hinge Screw Tape (CFRP)	1		Adhesive tape of the hinge screw

Item	Quantity	Image	Description
Sub Hinge Screw Tape (CFRP)	1		Adhesive tape of the hinge screw
Tape CFRP	1		Adhesive tape of the hinge

Disassembly and Reassembly for replacement



- The product's composition may vary depending on the country, region, or carrier.
- Repairable parts may vary depending on the country or region.

Before disassembling:

- Unplug and turn off device before disassembling.
- Wear an anti-static wrist strap and connect it to the grounded ESD safe mat.

Before reassembling:


- Remove the adhesive tape residues perfectly.
- Prepare all existing screws of this device and adhesive tapes.
- Wear an anti-static wrist strap and connect it to the grounded ESD safe mat.
- Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

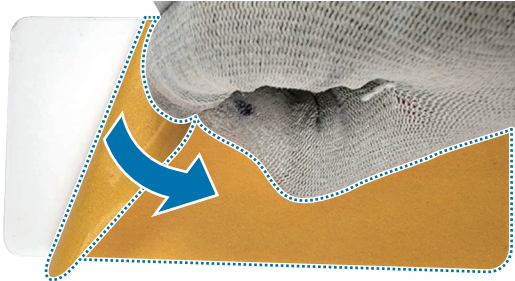
For all cases of broken glass:

- 1 Wear safety goggles and cut-resistant gloves.
- 2 Remove the release film of the acrylic protective cover.
- 3 To prevent injuries and scattering caused by broken glass, attach an acrylic protective cover.



If your device's glass breaks, be careful not to injure your hands or other body parts on debris.

- 4 Press the acrylic protective cover with strong force so that it is strongly attached to the glass.
-  Wait more than 5 minutes until the bond between the acrylic protective cover and the glass is strengthened.



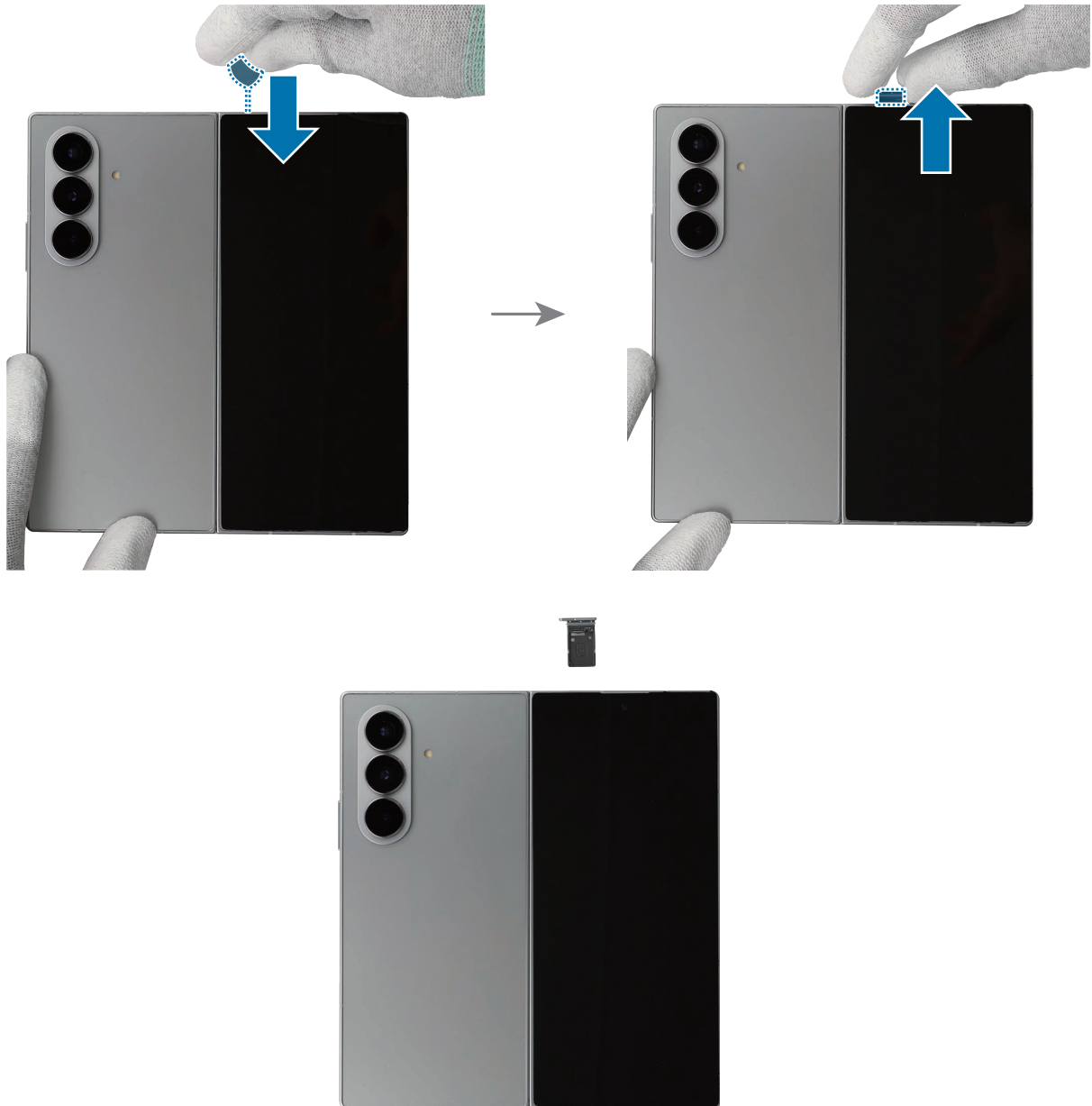
- 5 Follow the disassembly steps in this guide.

SIM Card Tray

Disassembly

⚠ Ensure that the device is fixed on a flat surface.

Prepare the device to repair by yourself. Insert the ejection pin into the hole of the SIM card tray to loosen the tray and pull out the tray gently from the tray slot.



Reassembly


- ⚠ Leaving screws inside the device may damage internal components, such as the battery. During assembly, be extra careful not to leave any unassembled screws inside the device.

Insert the SIM card tray back into the slot. Ensure that there are no abnormalities.





Back Cover

Disassembly


 When removing the back cover, ensure that the device is fixed on a flat surface.

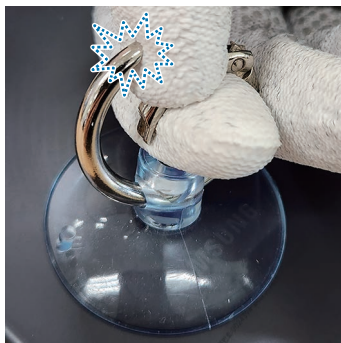
1 Heat the microwaveable heating bag and apply it on the back cover for 3 minutes to soften the adhesive.


-  • It is possible for the device or battery to be damaged by heat.
- Do not heat the device in a microwave. Doing so could cause an explosion.
- If your device's glass breaks, the debris can cause injury to your hands or other body parts. For your safety, attach an acrylic protective cover before disassembling the device.
-  • Follow the heating bag's instructions for heating. The recommended time for heating the bag is 50 seconds in a 1000 W microwave and 70 seconds in a 700 W microwave. (Correct temperature for use: 55-65 °C.)
- Be careful not to damage the device through excessive heat. (It is recommended to disassemble the device in an area with a temperature gauge.)




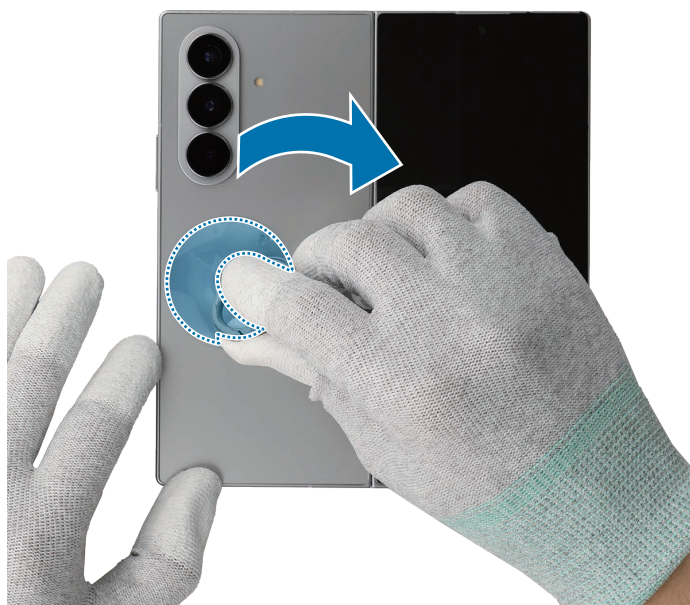
2 Place the suction cup in the centre of the left edge of the back cover, and lift it upward carefully.

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



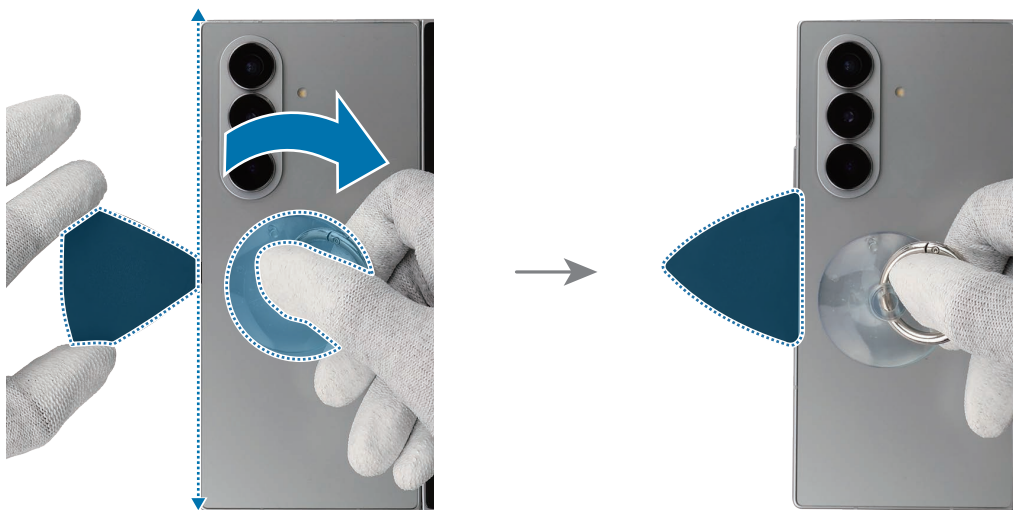
-  As the back cover can be damaged by excessive force, be careful not to damage the back cover.
- Be careful that the suction cup does not adhere to the area where the tape or sticker is attached.

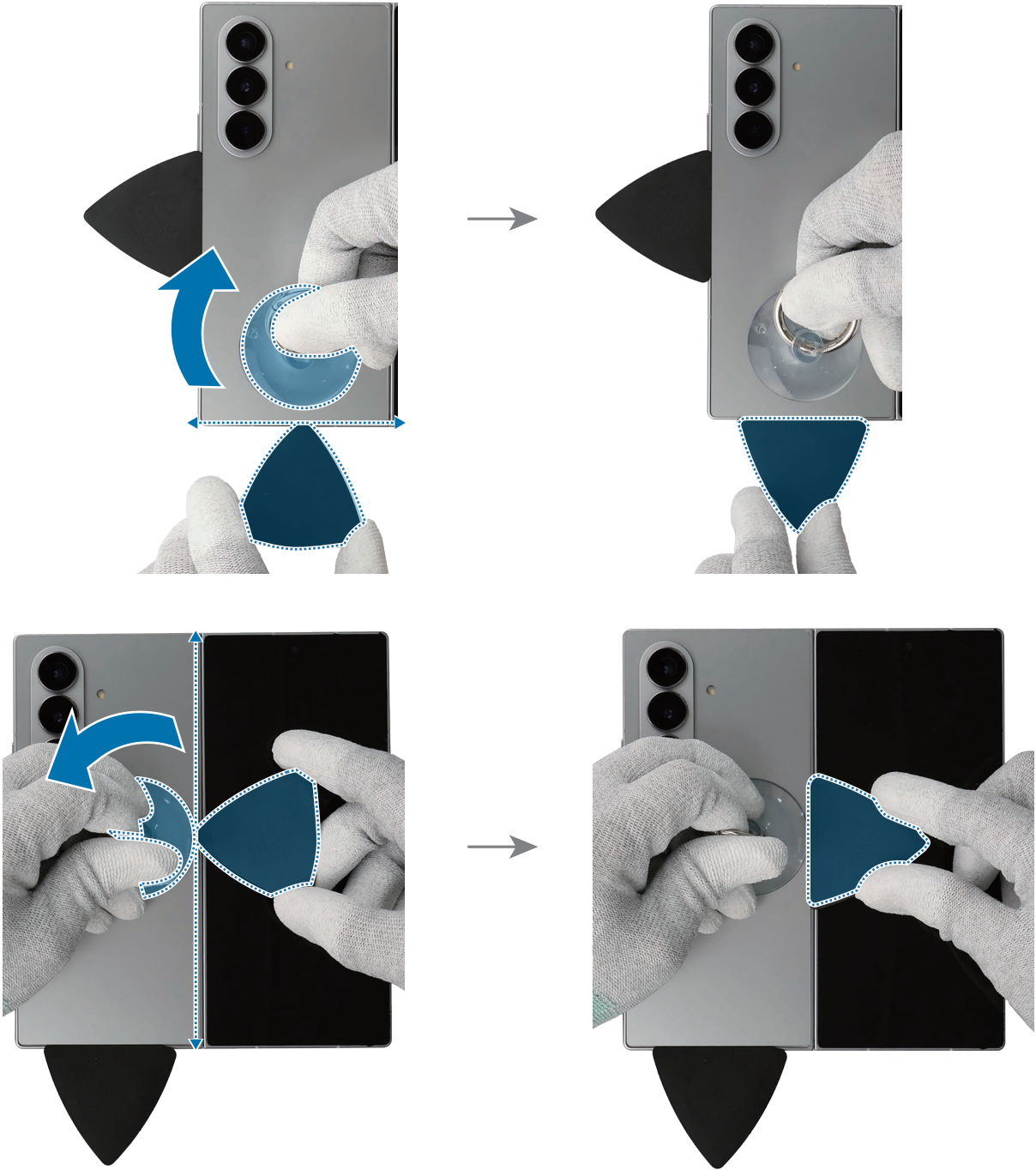
 If you have trouble creating a gap, heat the microwaveable heating bag additionally, and apply it on the back cover to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.

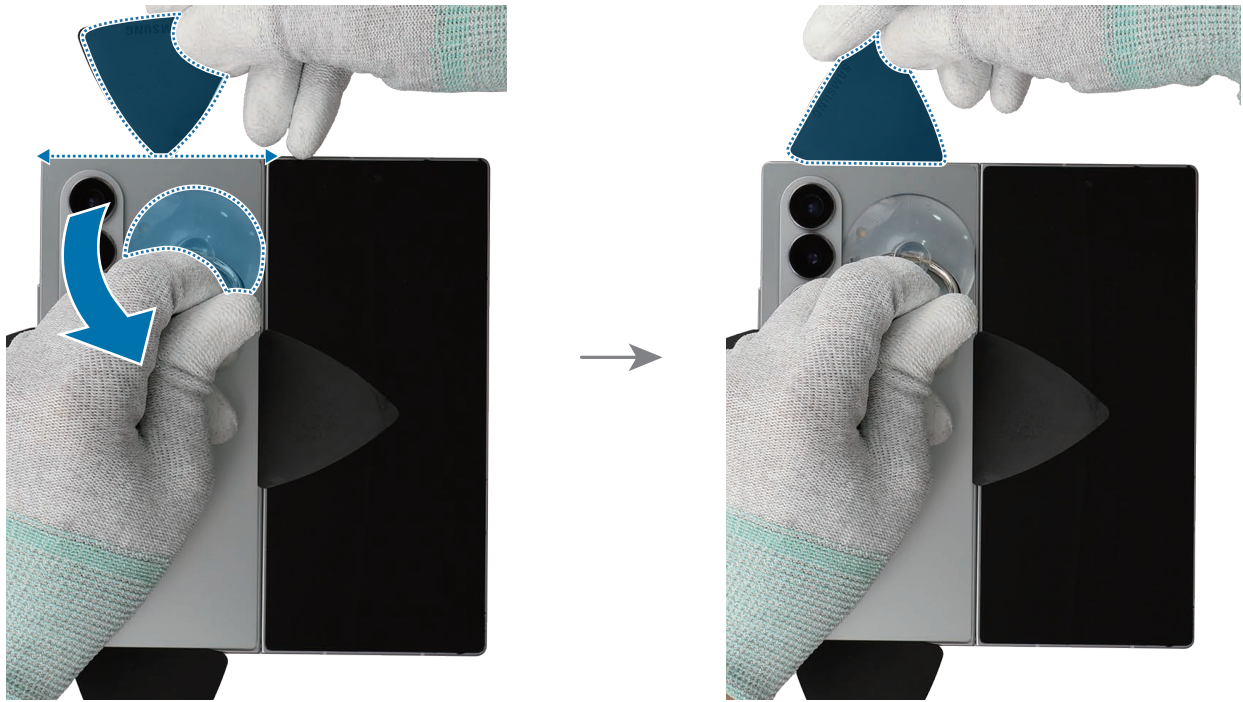


3 While pulling up the suction cup with strong, steady force to create the gap between the back cover and the screen module, place the opening pick in the gap between the back cover and the screen module and slide the opening pick back and forth along the edge to slice through the adhesive. Repeat this on all sides and slice through the adhesive. Lift up the back cover slowly and remove it gently from the device.

- ⚠ • As the back cover can be damaged by excessive force, be careful not to damage the back cover.
- As the internal circuitry can be damaged, do not insert the opening pick more than 3 mm.
- Be careful not to put your fingertips or any foreign objects on the rear cameras or back cover lens (●).
- ✍ • Make sure to leave the opening pick inserted in the edges to prevent the adhesive from resealing. It is recommended that a larger area of the opening pick be inserted.
- If you have trouble creating a gap, heat the microwaveable heating bag additionally, and apply it on the back cover to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.





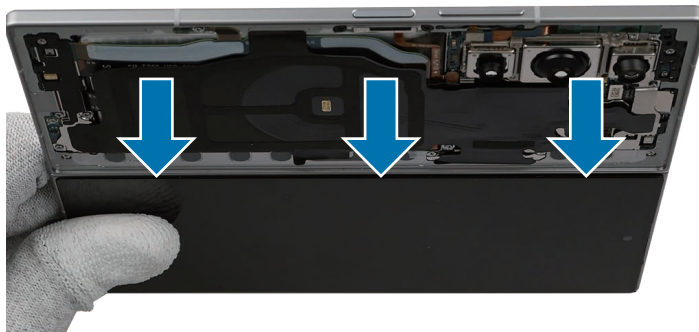




Reassembly

- ⚠ Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.
- ⚠ Before attaching the back cover, make absolutely sure that there are no screws, miscellaneous parts, or other foreign objects on the inside of the device (among the battery, PBA, etc.).

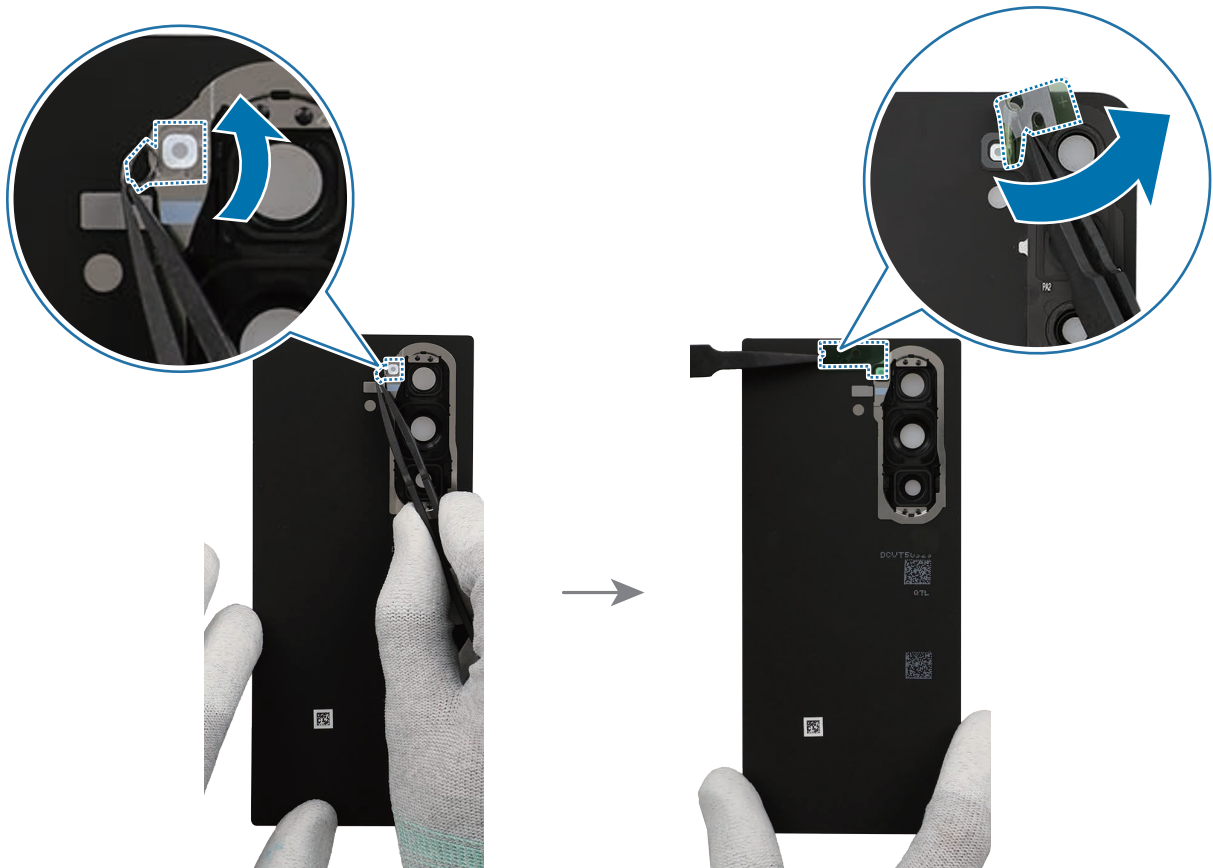
- 1 Check the screws left inside the device before reassembling the back cover.



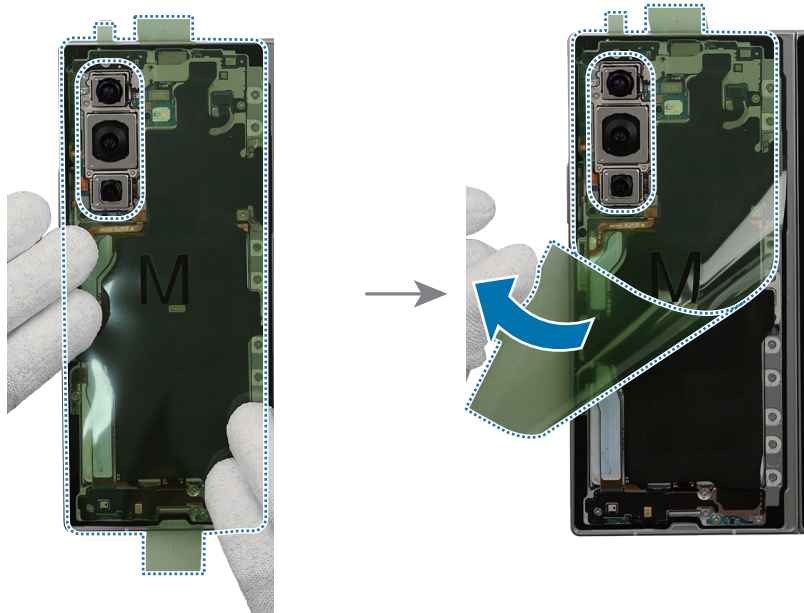
- 2 Remove all adhesive tapes on the separated back cover if you use the existing back cover as it is.
- ⚠ • Be careful not to put your fingertips or any foreign objects on the rear cameras or back cover lens (●).
 - Make sure to remove any residual tapes attached to the inside of the back cover before reassembling the device.
 - Be careful not to damage the near components.
- 📝 Apply additional heat with a microwaveable heating bag if you are having trouble separating the adhesive.



- Using the tweezers or your fingers, remove the double-sided adhesive tape for the 3rd microphone hole on the board side. Using the tweezers or your fingers, align the outside shape of the tape with the position of the microphone hole and attach it on the back cover. Gently press down on the adhesive tape. Then, remove the release film of the 3rd microphone hole.



- 4 Align the tape precisely on the rear and attach it. Using the tweezers and your fingers, gently press around all the edges several times to ensure a secure fit. Then, remove the release film of the new back cover adhesive tape with grabbing the top.



- 5 Gently press around the all the edges with your hands to attach the back cover with the back cover adhesive tape.
- ⚠ • Make sure to remove any residual tapes attached to the inside of the back cover before reassembling the device.
 - Be careful not to damage the near components.






6 If you can rent a toolkit for self-repair service, or if the press roller or stamp is bundled with the repair parts you ordered, check for the steps of the [Back Cover Press](#). You can further press the fully assembled back cover using the appropriate tool.



- The toolkit is only available to use by the rental of tool kit that contains a complete set of the tools for self repair service.
- Availability of rental service and the bundle tool may vary depending on the country and are currently available only in limited countries.


Cover Screen

Disassembly


-  When removing the cover screen, ensure that the device is fixed on a flat surface.
- 1 Heat the microwaveable heating bag and apply it on the cover screen for 3 minutes to soften the adhesive.
-  • It is possible for the device or battery to be damaged by heat.
- Do not heat the device in a microwave. Doing so could cause an explosion.
 - If your device's glass breaks, the debris can cause injury to your hands or other body parts. For your safety, attach an acrylic protective cover before disassembling the device.
-  • Follow the heating bag's instructions for heating. The recommended time for heating the bag is 50 seconds in a 1000 W microwave and 70 seconds in a 700 W microwave. (Correct temperature for use: 55-65 °C.)
- Be careful not to damage the device through excessive heat. (It is recommended to disassemble the device in an area with a temperature gauge.)




2 Place the suction cup in the centre of the top edge of the cover screen.

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

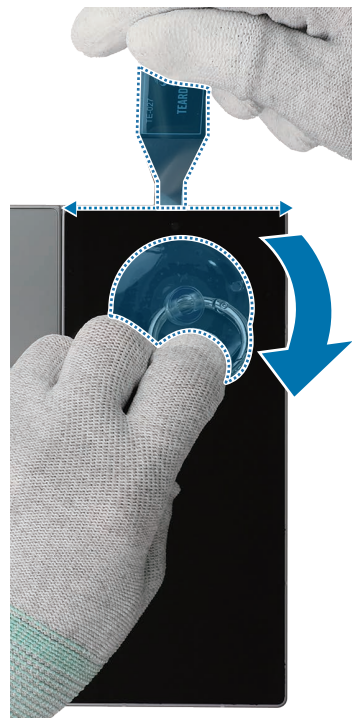


-  As the cover screen can be damaged by excessive force, be careful not to damage the cover screen.
- Be careful that the suction cup does not adhere to the area where the tape or sticker is attached.

 If you have trouble creating a gap, heat the microwaveable heating bag additionally, and apply it on the cover screen to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.



- 3 While pulling up the suction cup with strong, steady force to make the gap between the cover screen and the screen module, insert the metal opening tool in the gap at the top edge. Then, slide between the gap with the metal opening tool back and forth to remove the adhesive of the top edge.
- ⚠ As the internal parts can be damaged, do not insert the metal opening tool more than 1–2 mm.
 - 📝 The metal opening tool has to be used to remove the adhesive because the cover screen is attached to the screen module by strong adhesive.



4 Insert the opening pick into the gap created by lifting the suction cup. Slide the opening pick back and forth along the top edge to remove the adhesive. Repeat this on all sides and remove the adhesive. Lift up the cover screen slowly and remove it gently.



- If the gel pack is too hot, you may get burned. Be careful when you use it and recommend wearing gloves.

- It is possible for the device or battery to be damaged by heat.

- Do not heat the device in a microwave. Doing so could cause an explosion.

- If your device's glass breaks, the debris can cause injury to your hands or other body parts. For your safety, attach an acrylic protective cover before disassembling the device.



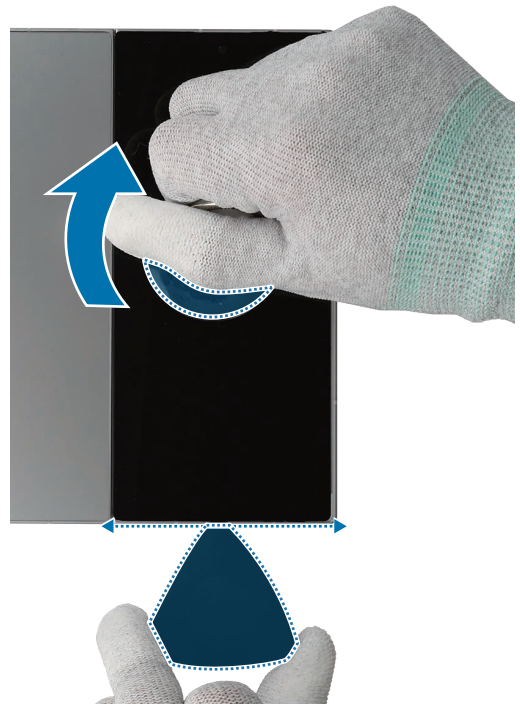
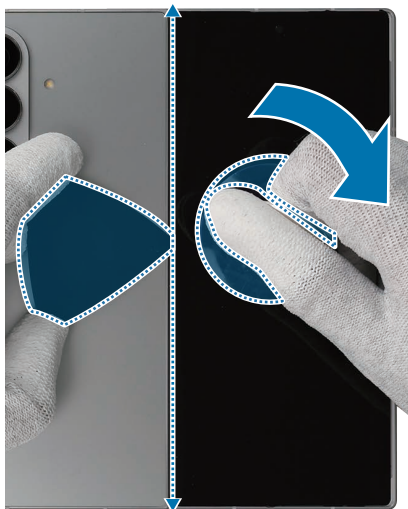
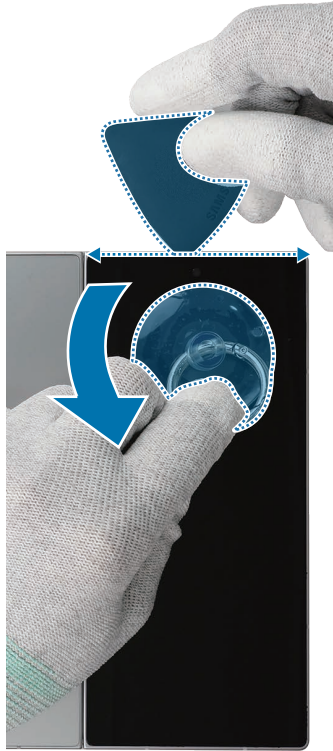
- As the cover screen can be damaged by excessive force, be careful not to damage the cover screen.

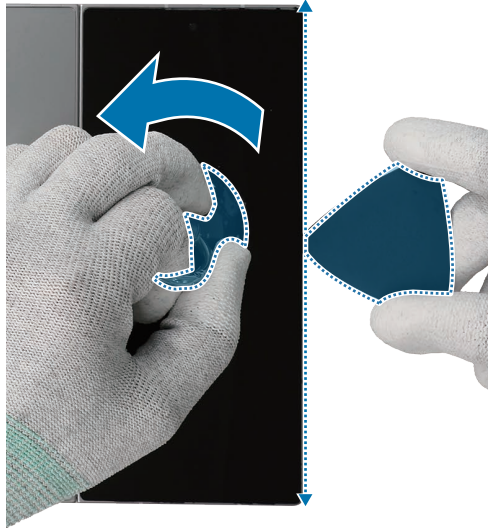
- As the internal circuitry can be damaged, do not insert the opening pick more than 1-2 mm.



- Make sure to leave the opening pick inserted in the edges to prevent the adhesive from resealing.

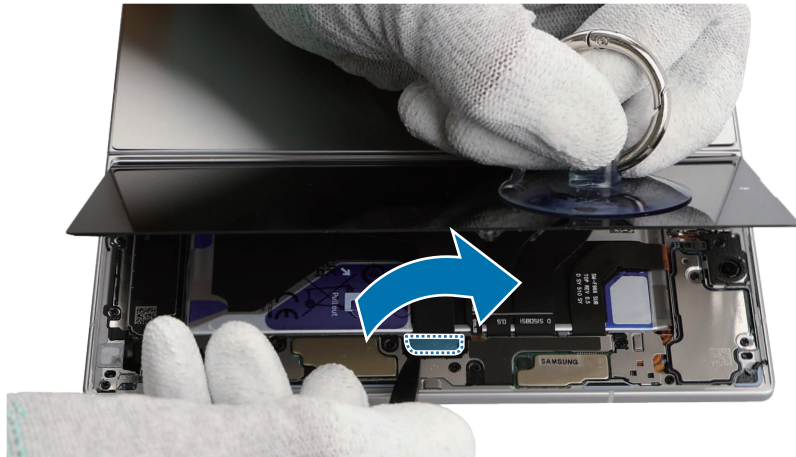
- If you have trouble creating a gap, heat the microwaveable heating bag additionally, and apply it on the cover screen to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.





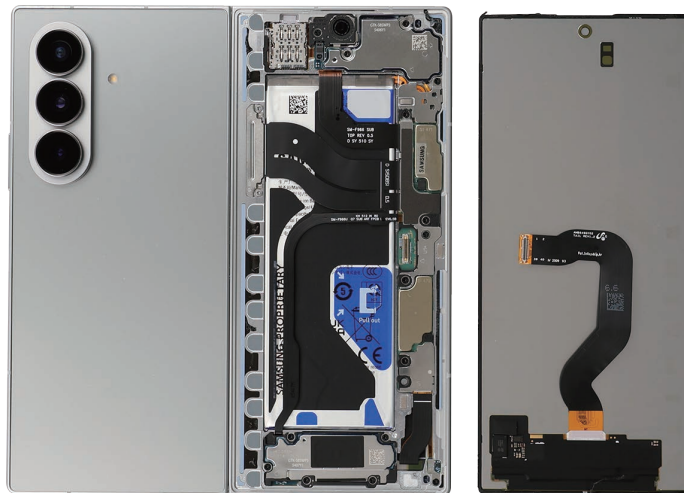
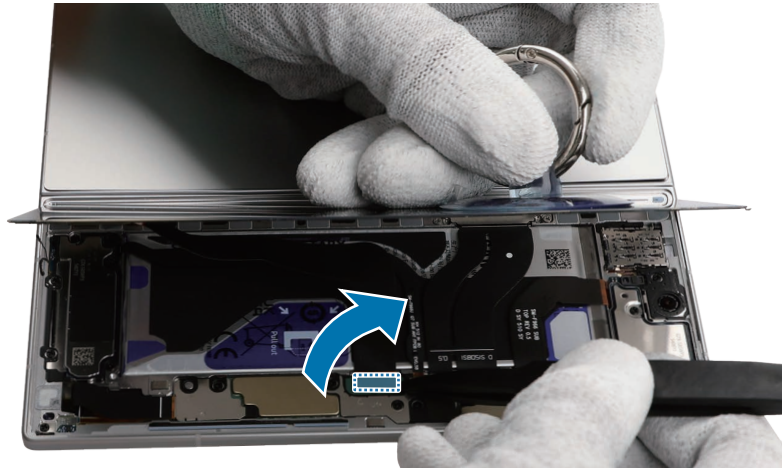
5 Using the tweezers, disassemble the cover screen's flexible cable connector cover first before removing the cover screen.

- ⚠ Be careful not to damage the flexible cable.
- Be careful not to lose the connector cover.



6 Disassemble the flexible cable connector of the cover screen with the tweezers and separate the cover screen and the device completely.

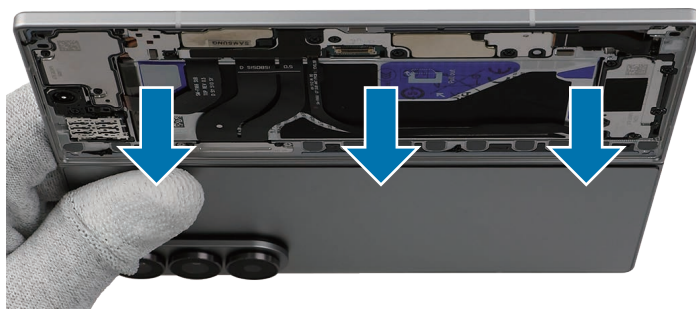
- ⚠ Be careful not to damage the flexible cable.
- Be careful not to lose the connector cover.



Reassembly

- ⚠ Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.
- ⚠ Before attaching the cover screen, make absolutely sure that there are no screws, miscellaneous parts, or other foreign objects on the inside of the device (among the battery, PBA, etc.).

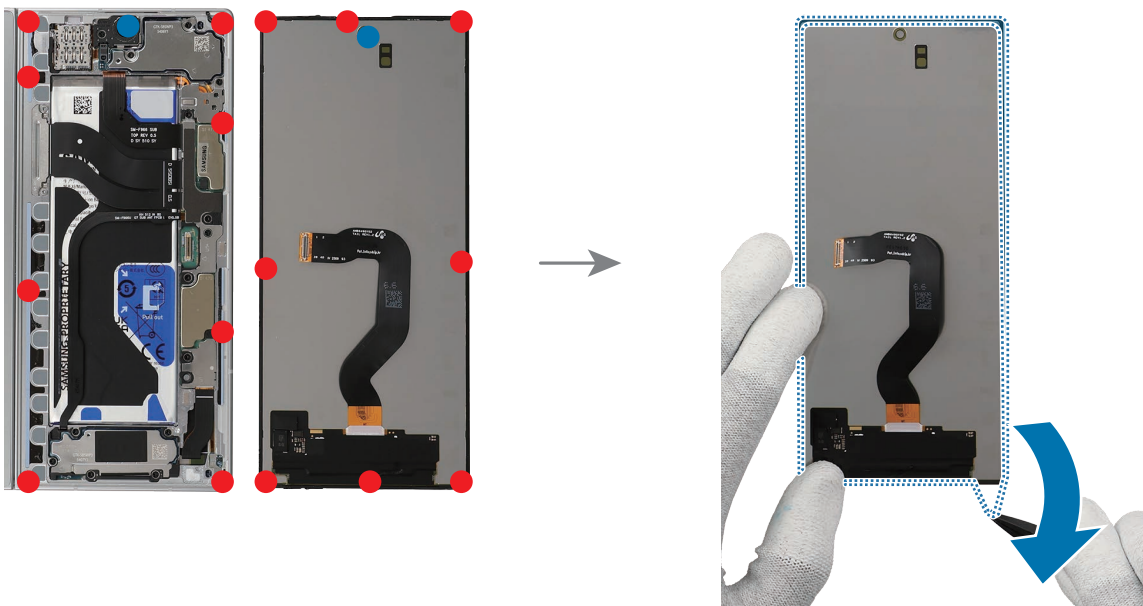
1 Check the screws left inside the device.



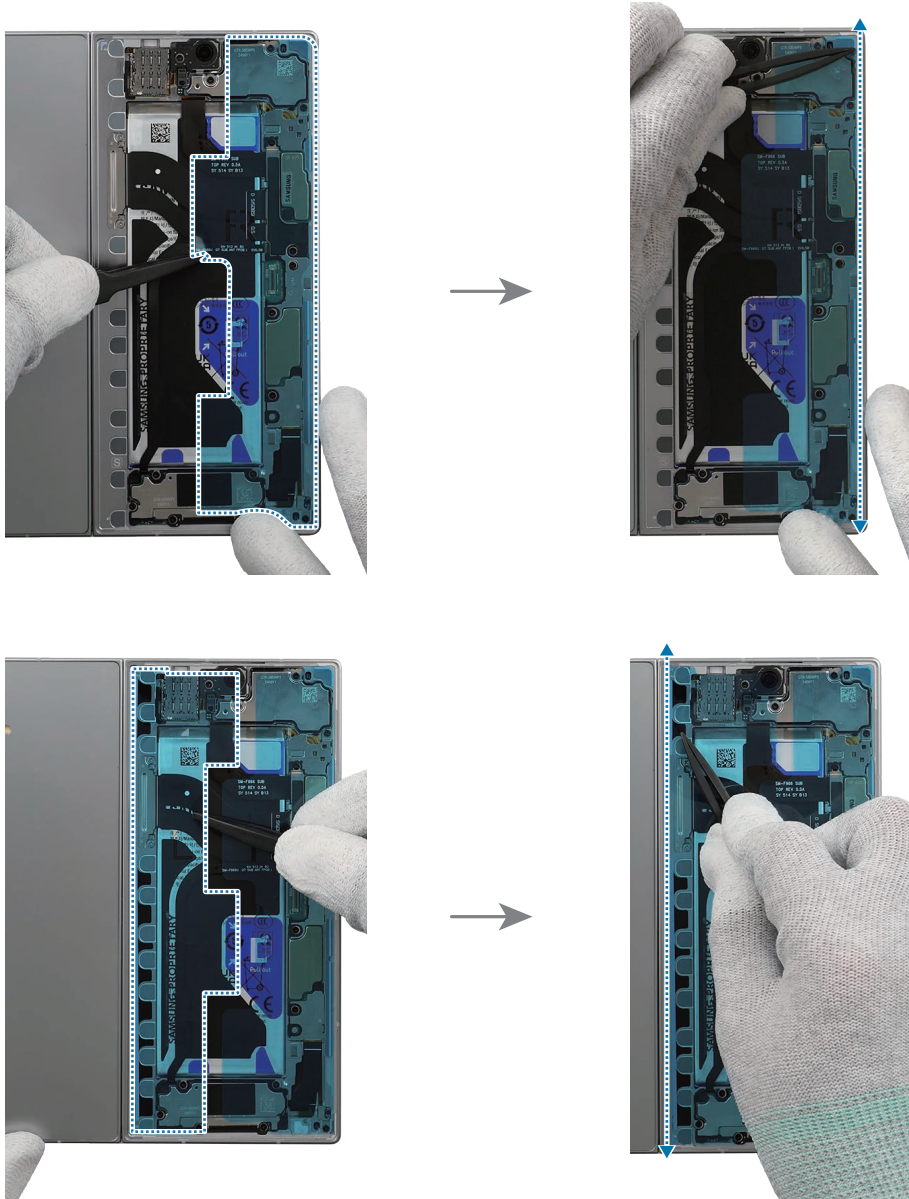
2 Remove all adhesive tapes on the all sides and edges of the cover screen and the metal frame of the screen module (●).

- ⚠ Be careful not to put your fingertips or any foreign objects on the camera and camera lens (●).
- Make sure to remove any residual tapes (●) attached to the edges of the cover screen and the metal frame of screen module, before reassembling the device.
- Be careful not to damage the near components.

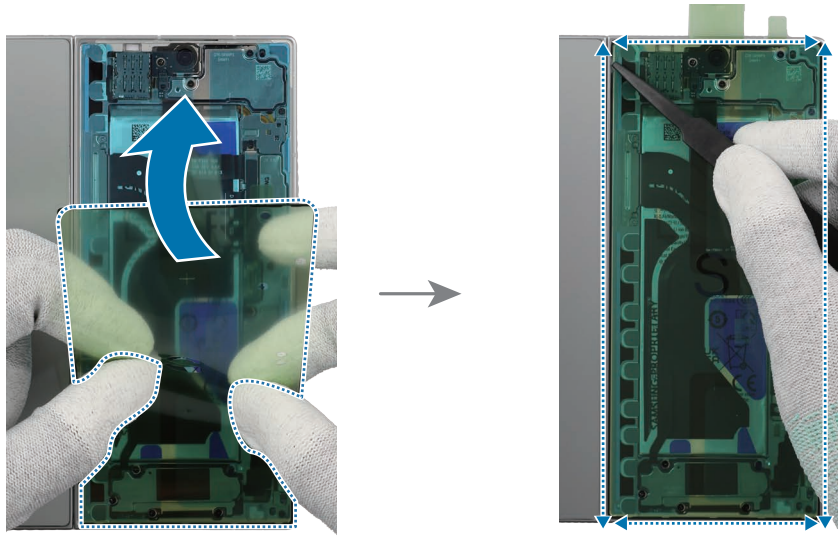
✔ Apply additional heat with a microwaveable heating bag if you are having trouble separating the adhesive.



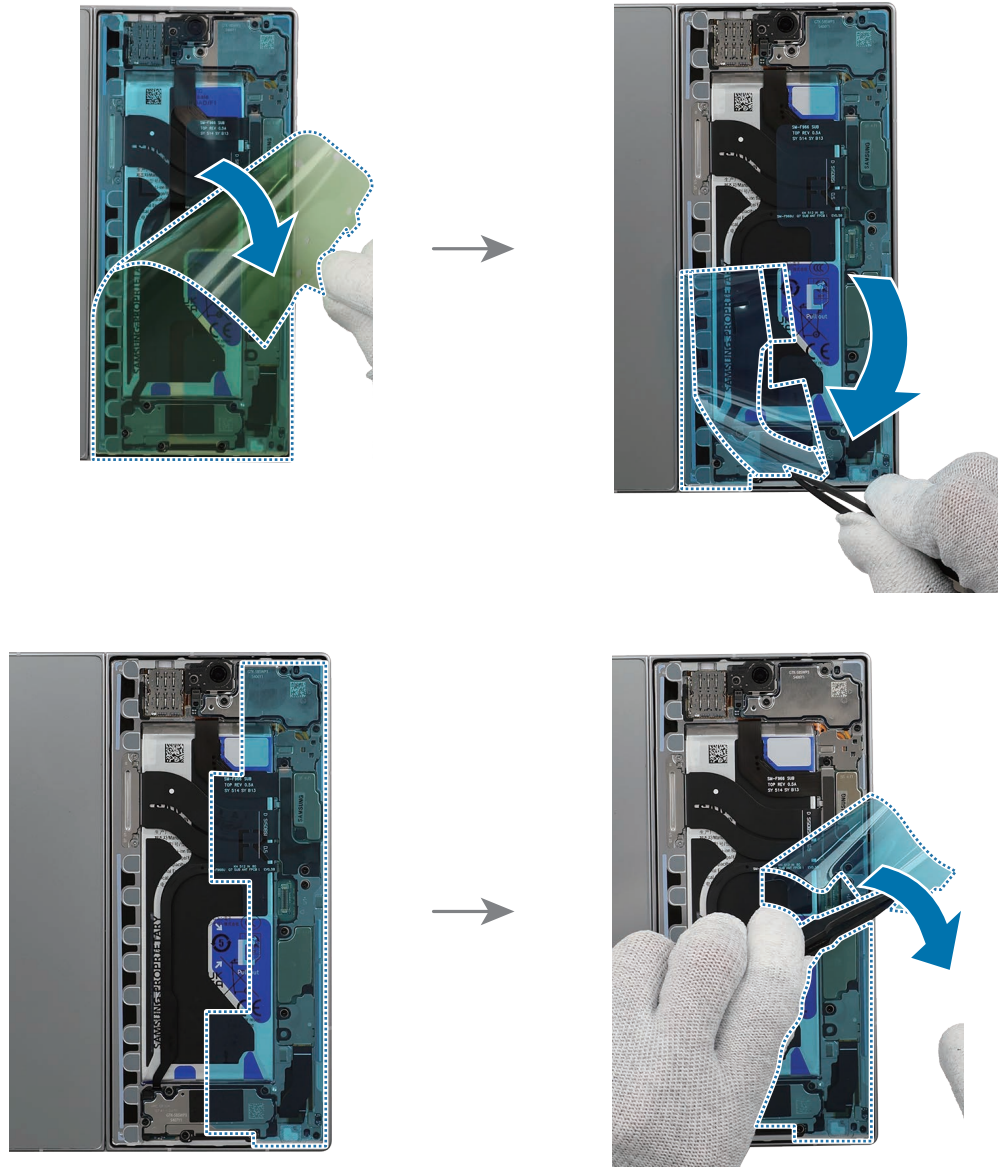
- 3 Attach the new cover screen inner left/right tape. Align the tape precisely on the screw location and attach it. Then, using the tweezers or your fingers, gently press around the left/right edge several times to ensure a secure fit.



- 4 Align the cover screen adhesive tape precisely on the screw location and attach it. Using the tweezers or your fingers, gently press around the all the edges several times to ensure a secure fit.

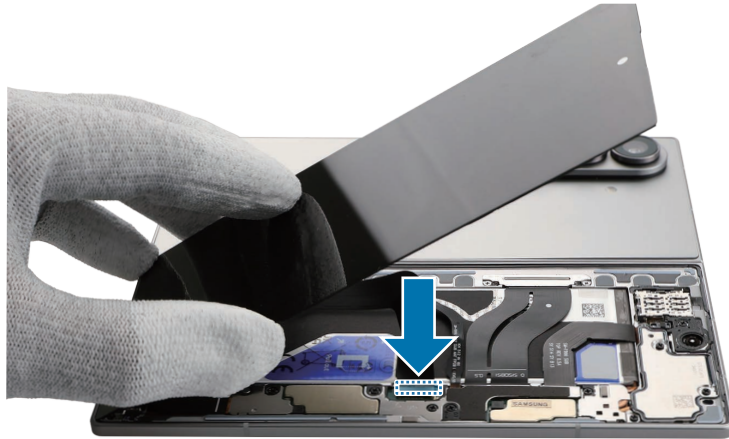


5 Using the tweezers or your fingers, remove all release films carefully one by one.



6 Connect the cover screen's flexible cable connector first and press down with your fingers.

- ⚠ • Be careful not to damage the flexible cable.
- Be careful not to lose the connector cover.




7 Assemble the cover screen's FPCB cable connector cover with the tweezers.

- ⚠ • Be careful not to damage the flexible cable.
- Be careful not to lose the connector cover.




8 Attach the cover screen and press down on the edges of the cover evenly in order to attach the cover it perfectly. Check the gap between the cover screen and the metal frame.

 If you feel some gap, remove the cover screen and attach it again. Some foreign materials can be inside the device.



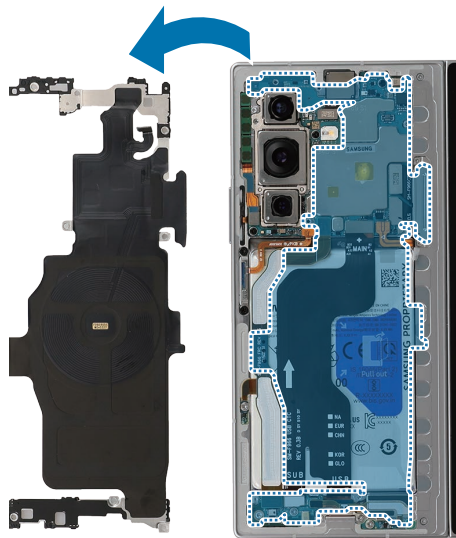
9 If you can rent a toolkit for self-repair service, or if the press roller or stamp is bundled with the repair parts you ordered, check for the steps of the [Cover Screen Press](#). You can further press the fully assembled cover screen using the appropriate tool.

-  • The toolkit is only available to use by the rental of tool kit that contains a complete set of the tools for self repair service.
- Availability of rental service and the bundle tool may vary depending on the country and are currently available only in limited countries.

Main Microphone

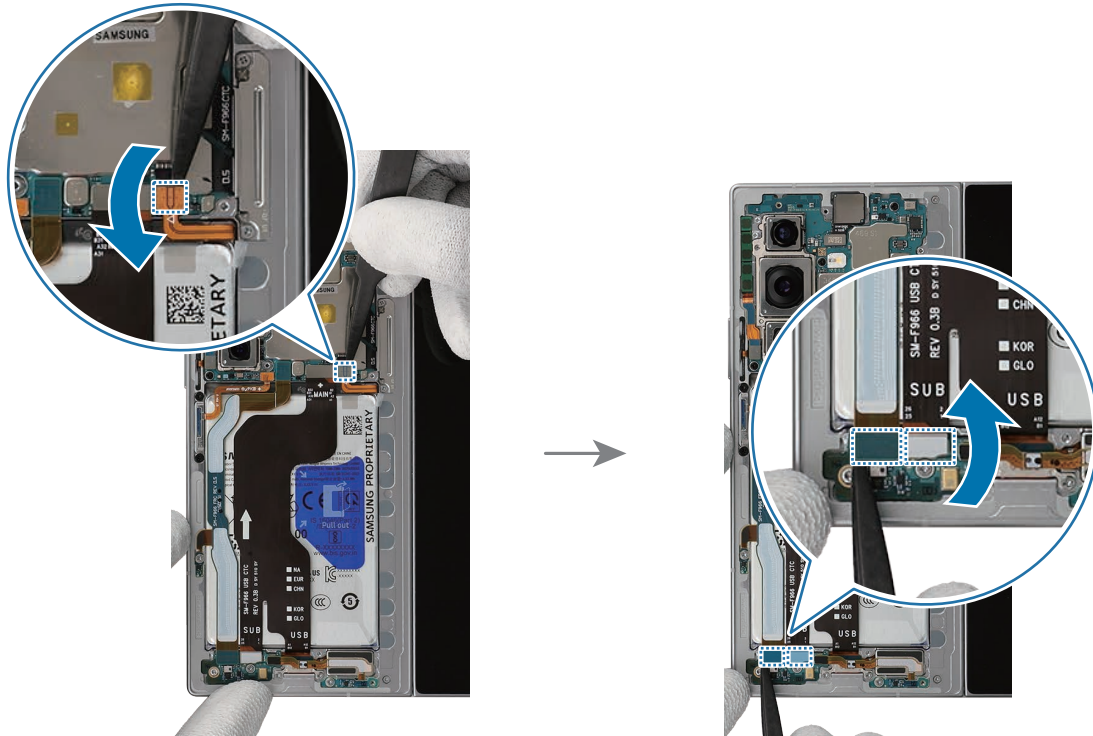
Disassembly

- ⚠️ Ensure that the device is fixed on a flat surface.
- ✍️
 - The main microphone is built into the lower board.
 - Remove the [Back Cover](#) first before you begin.
 - Refer to [Rear Camera](#) to remove the wireless charging module.



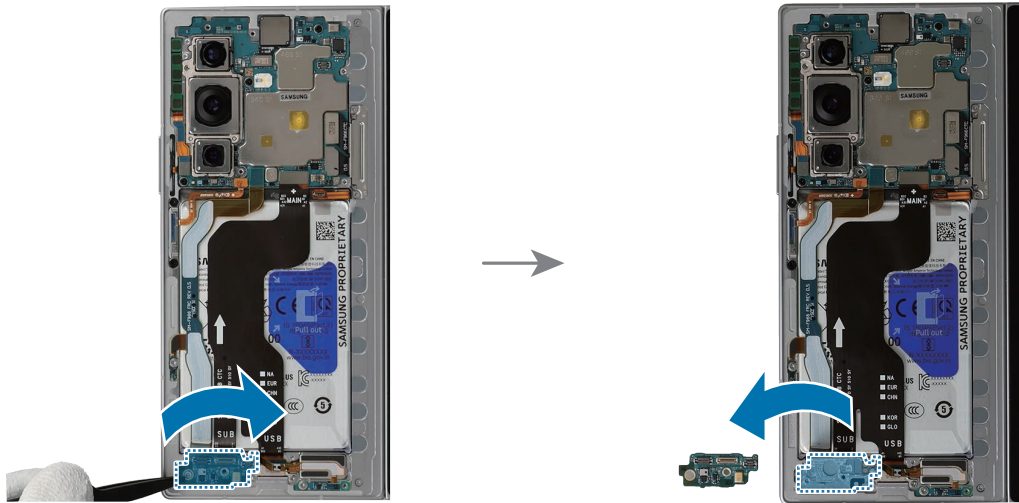
1 Check and disconnect the battery connector from the main board. Using the tweezers, disconnect the connectors connected to the lower board.

⚠ Be careful not to damage the camera frame and the main board.



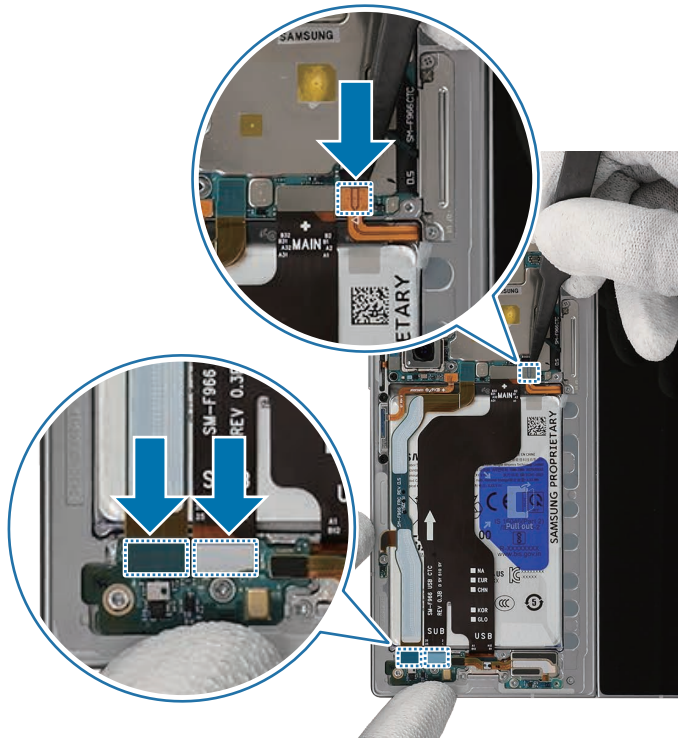
3 Using the tweezers, remove the lower board. The microphone is included in the lower board.

- ⚠ • Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.
- ⚠ • Be careful not to damage the cable.
- Be careful not to damage the lower board and near components.



2 Connect the connectors of the main lower board. Press down on it in its position smoothly with your fingers.

- ⚠ • Be careful not to damage the cable.
- Be careful not to damage the main lower board and near components.



- ✓ • Refer to [Rear Camera](#) to reassemble the wireless charging module.
- Reassemble the [Back Cover](#) to complete assembly.

Charging Port

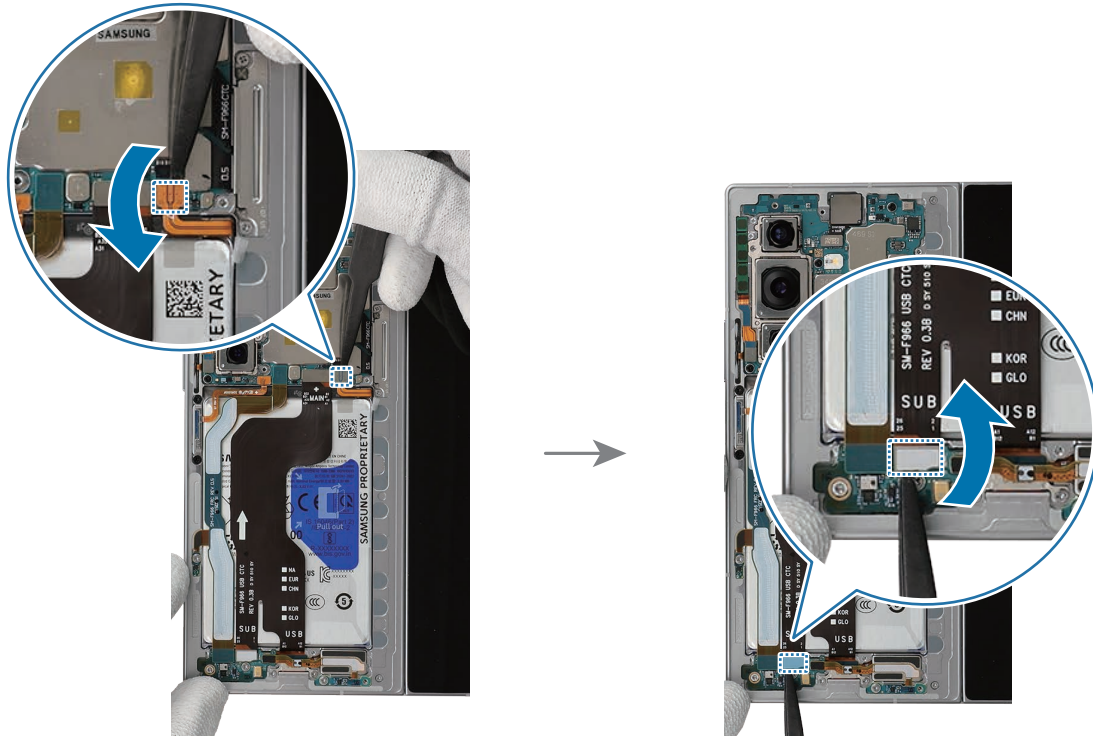
Disassembly

- ⚠️ Ensure that the device is fixed on a flat surface.
- ✍️ • Remove the [Back Cover](#) first before you begin.
- Refer to [Rear Camera](#) to remove the wireless charging module.



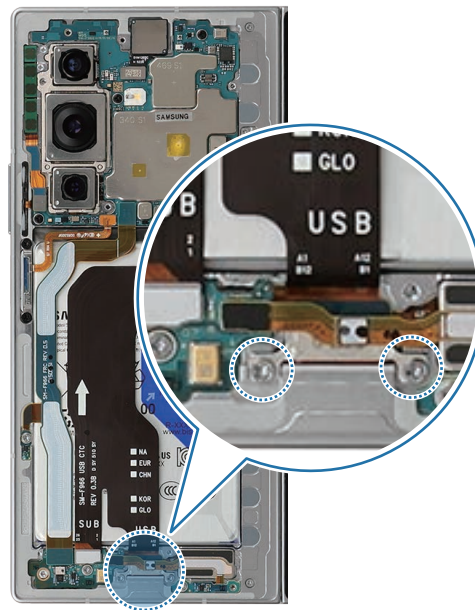
1 Using the tweezers, disconnect the battery connector first. Then, disconnect the connectors from the lower board.

- ⚠ Be careful not to damage the cable.
- Be careful not to damage the main board and near components.



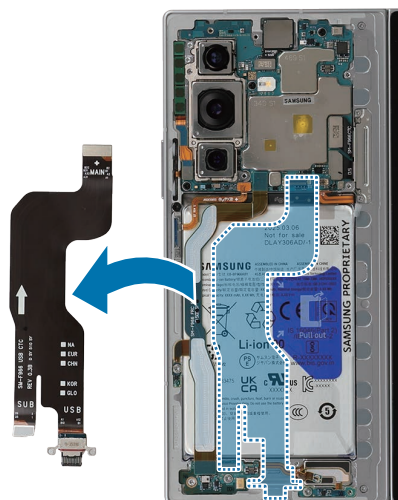
2 Check the screws at the 2 different points on the charging port and remove them using a cross-head screwdriver.

- ⚠ • Be careful not to damage the cable.
 - Be careful not to damage the charging port and 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 device during assembly.




3 Using the tweezers, disconnect the connector of the charging port on the main lower board. Then, remove the charging port.


- ⚠ Be careful not to damage the near components.

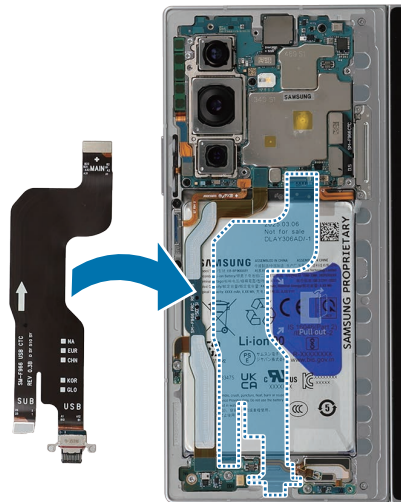


Reassembly

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

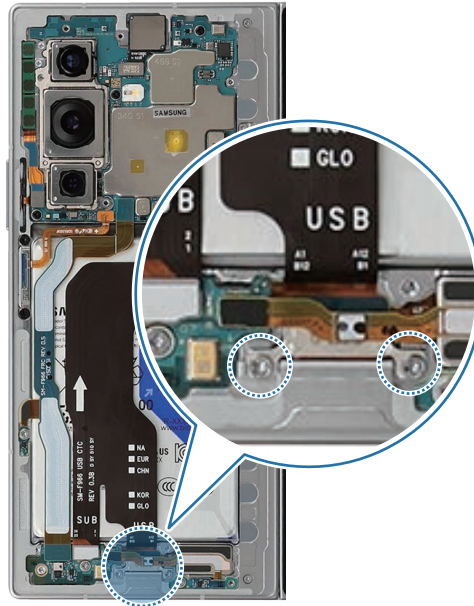
1 Using the tweezers, grab the screw hole of the charging port and insert it on the slot carefully.

-  Be careful not to damage the cable.
- Be careful not to damage the charging port and near components.

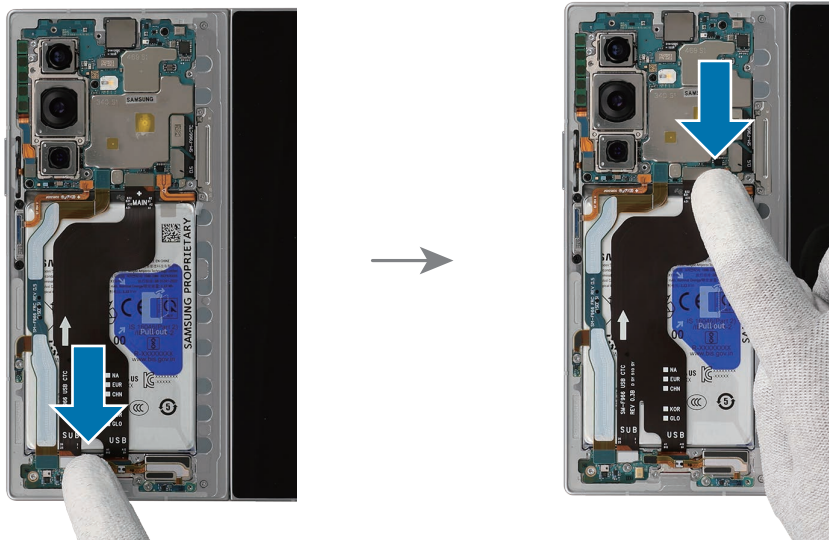


2 Check the screw 3593 (2 ea) at the 2 different points on the charging port and fasten them using a cross-head screwdriver.

- ⚠ • Be careful not to damage the cable.
- Be careful not to damage the charging port and near components.



3 Connect the main CTC cable connector on the lower board. Then, connect the battery connector.



- ✓ • Refer to [Rear Camera](#) to reassemble the wireless charging module.
- Reassemble the [Back Cover](#) to complete assembly.

Front Camera

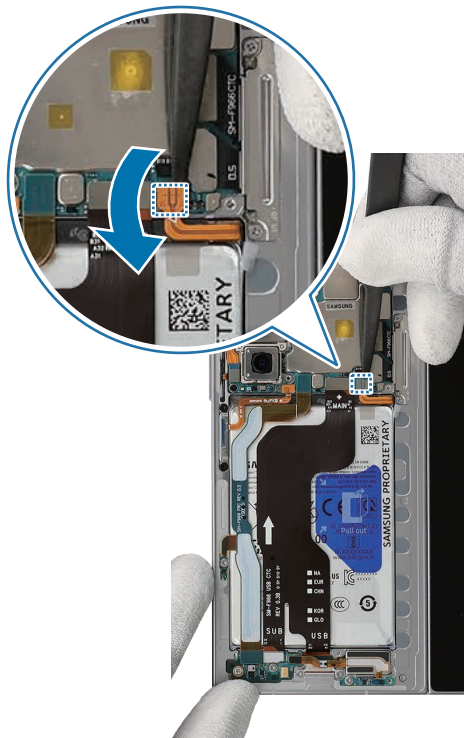
Disassembly

- ⚠️ Ensure that the device is fixed on a flat surface.
- ✍️ • Remove the [Back Cover](#) first before you begin.
- Refer to [Rear Camera](#) to remove the wireless charging module.



1 Using the tweezers, disconnect the battery connector. Using the tweezers, disconnect the connectors from the main board. For the United States 5G devices, disconnect the 5G mmWave antenna connector additionally.

- ⚠ • Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.
- ⚠ • Be careful not to damage the cable.
- Be careful not to damage the main board and near components.
- 👉 • The 5G mmWave antenna module and its connector are only available in United States devices.
- The cables and connectors may vary depending on the country, region, or specification.



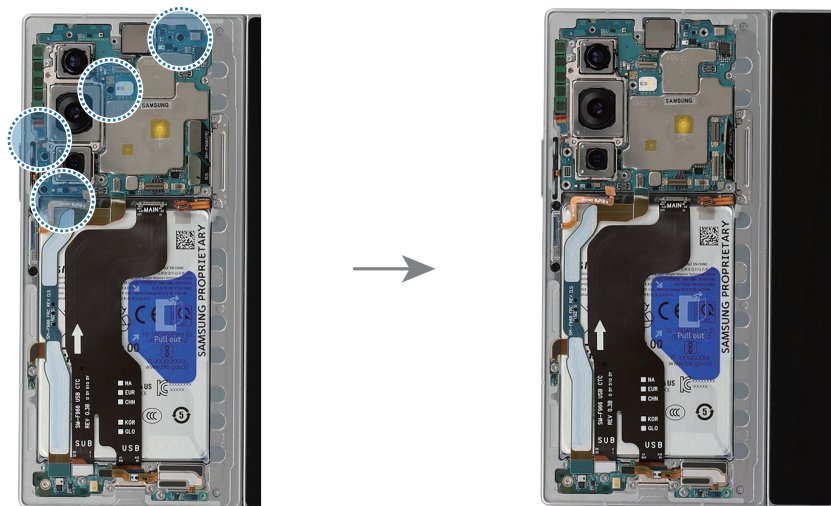
2 Check and remove the 4 screws using a cross-head screwdriver.



- Be careful not to touch the camera lens while removing the camera.
- Be careful not to damage the camera and near components.



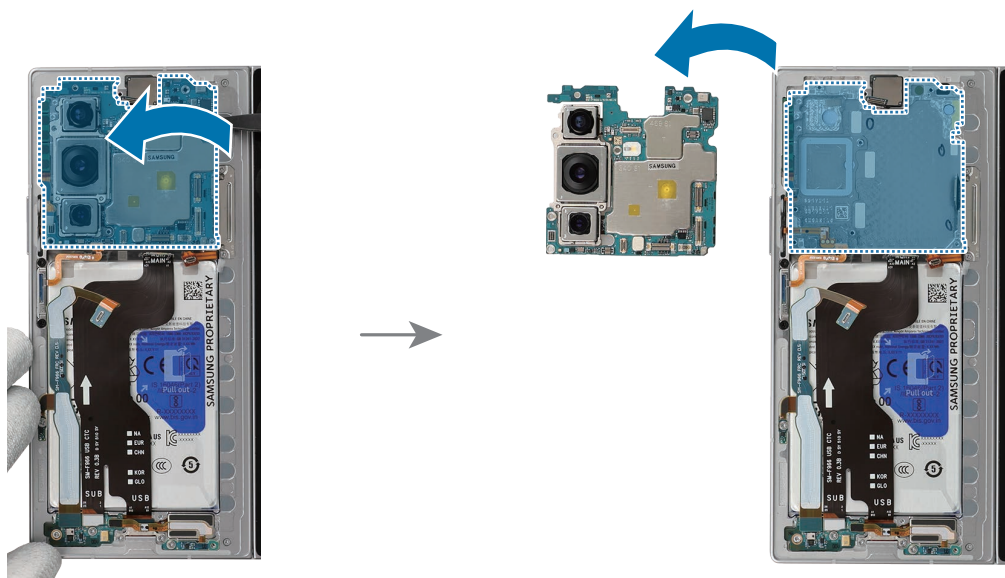
Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



3 Using the tweezers, remove the main board.



- Be careful not to touch the camera lens while removing the camera.
- Be careful not to damage the camera and near components.



4 Heat the microwaveable heating bag and apply it on the front camera for 30 seconds to soften the adhesive.



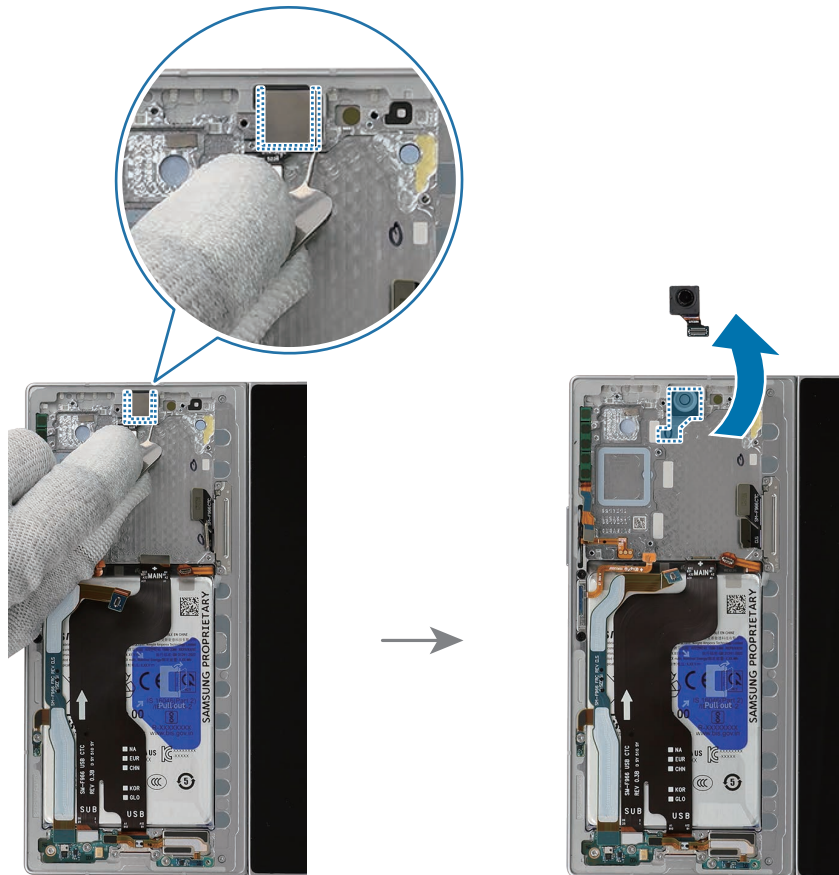
- It is possible for the device or battery to be damaged by heat.
- Do not heat the device in a microwave. Doing so could cause an explosion.
- If your device's glass breaks, the debris can cause injury to your hands or other body parts. For your safety, attach an acrylic protective cover before disassembling the device.



- Follow the heating bag's instructions for heating. The recommended time for heating the bag is 50 seconds in a 1000 W microwave and 70 seconds in a 700 W microwave. (Correct temperature for use: 55-65 °C.)
- Be careful not to damage the device through excessive heat. (It is recommended to disassemble the device in an area with a temperature gauge.)



- 5 Remove the bonded parts softly using the SIM card tray ejection pin. Then, remove the front camera with your fingers, and leave the camera lens facing up.

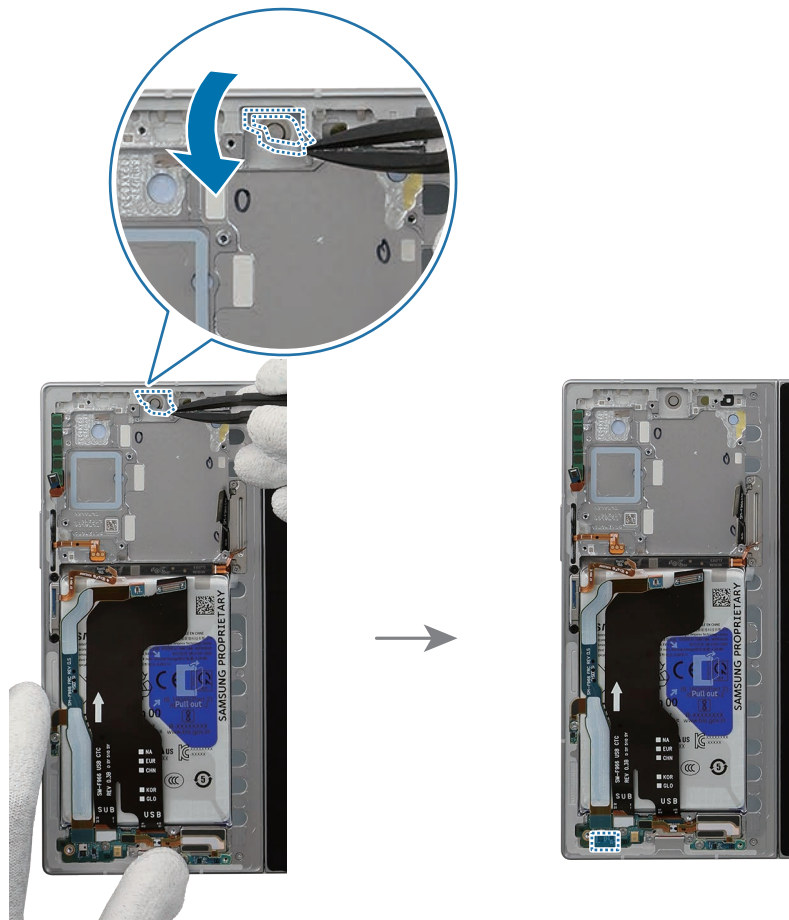


Reassembly

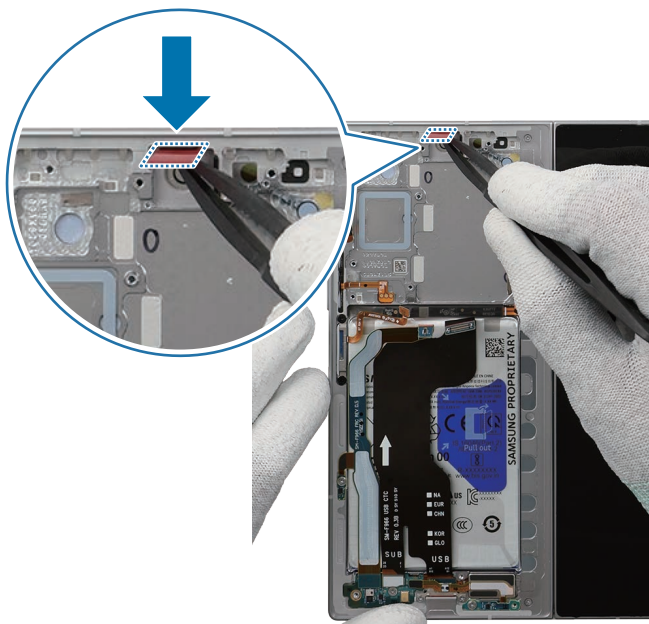
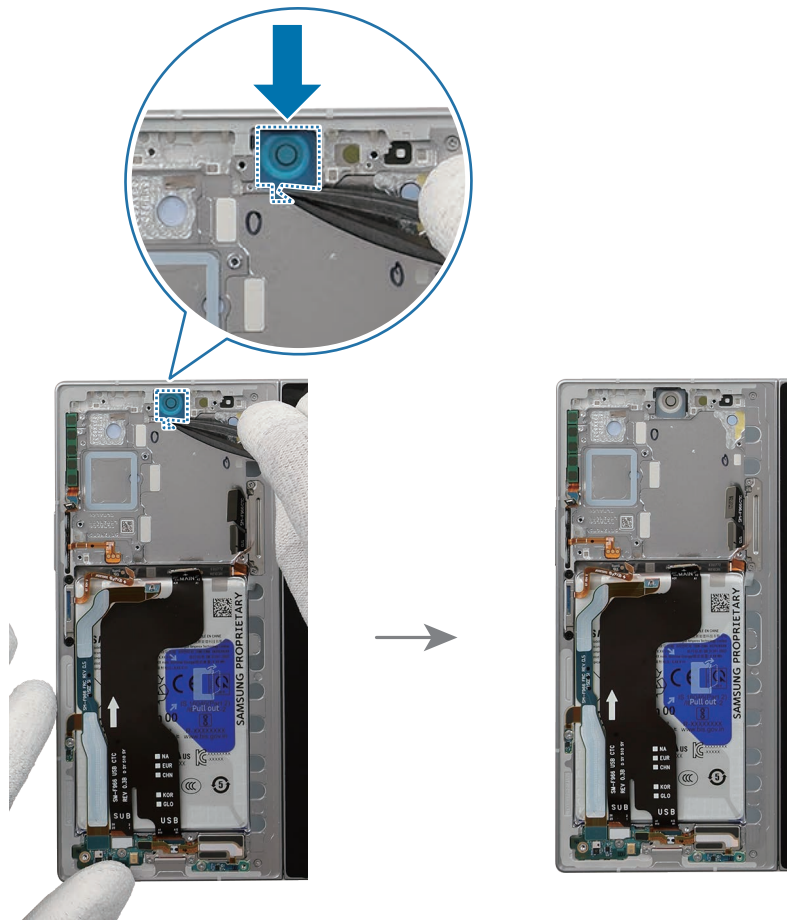
! Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

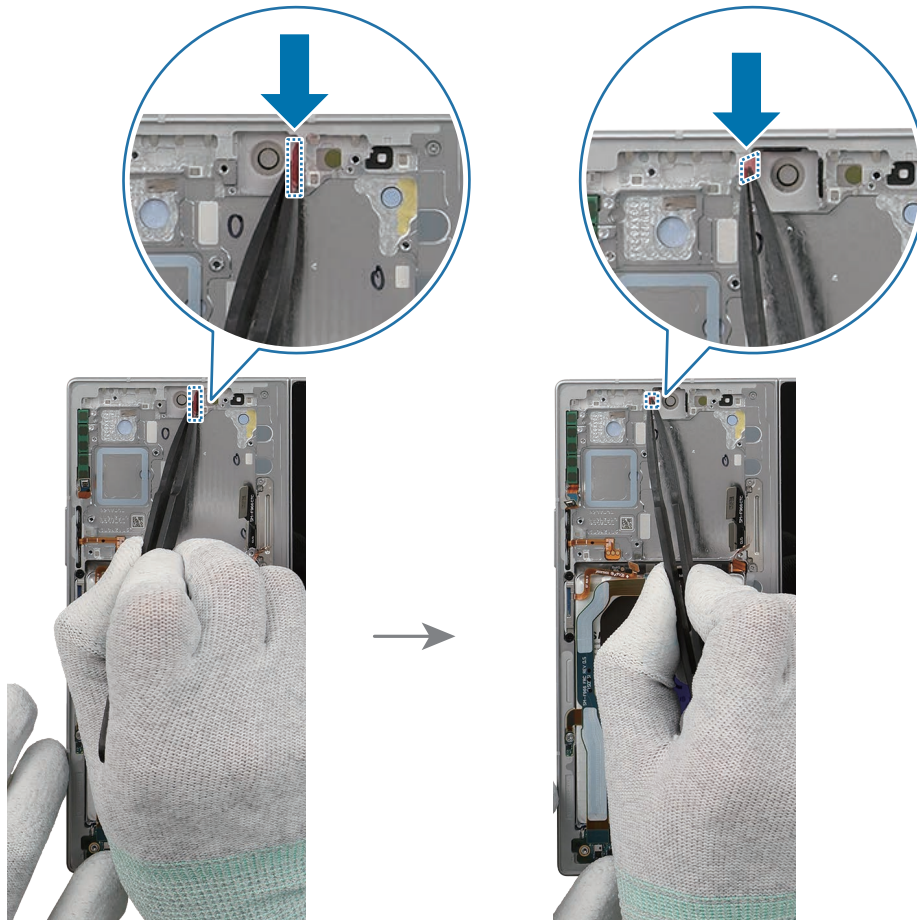
1 Using the tweezers or your fingers, remove the adhesive tapes remained on the front camera clearly.

- !** • Be careful not to damage the camera lens and near components.
- Be careful not to damage and scratch the camera module.

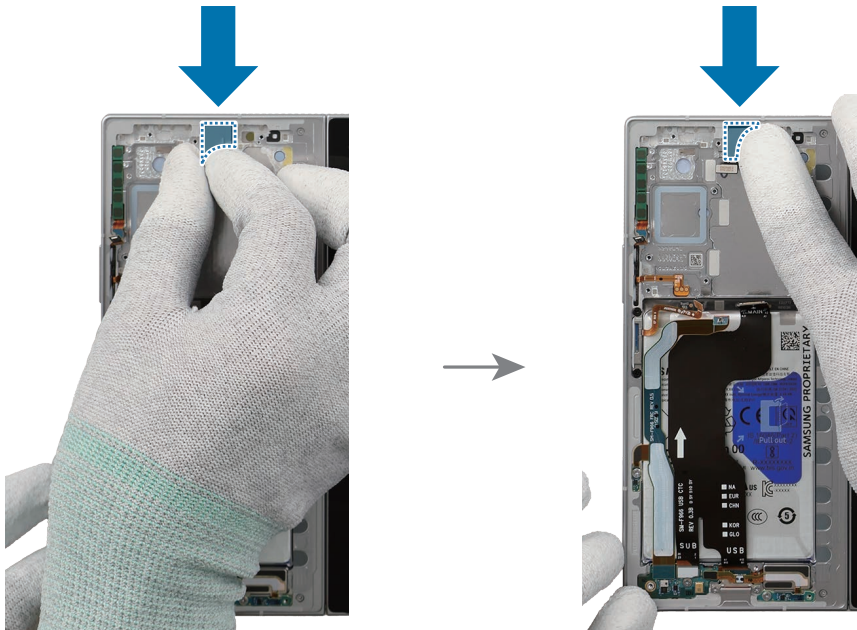


- 2 Attach the adhesive tapes for the main front camera. Attach the VT camera tape and remove the release film. Next, attach the VT camera tape side 2 and remove the release film. Lastly, attach the VT camera tape side 1 and remove the release film.





- 3 Place the front camera in the camera hole so that the lens faces forward, and gently insert the front camera.



- 4 Place the main board on the device.

- ⚠ • Be careful not to damage the camera lens and near components.
- Be careful not to damage the main board.
- Be careful not to damage and scratch the camera module.



- 5 Check the screw 3604 (4 ea) and fasten them on the correct position using a cross-head screwdriver.

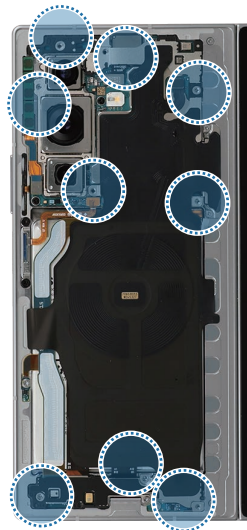


- Refer to [Rear Camera](#) to reassemble the wireless charging module.
- Reassemble the [Back Cover](#) to complete assembly.

Rear Camera

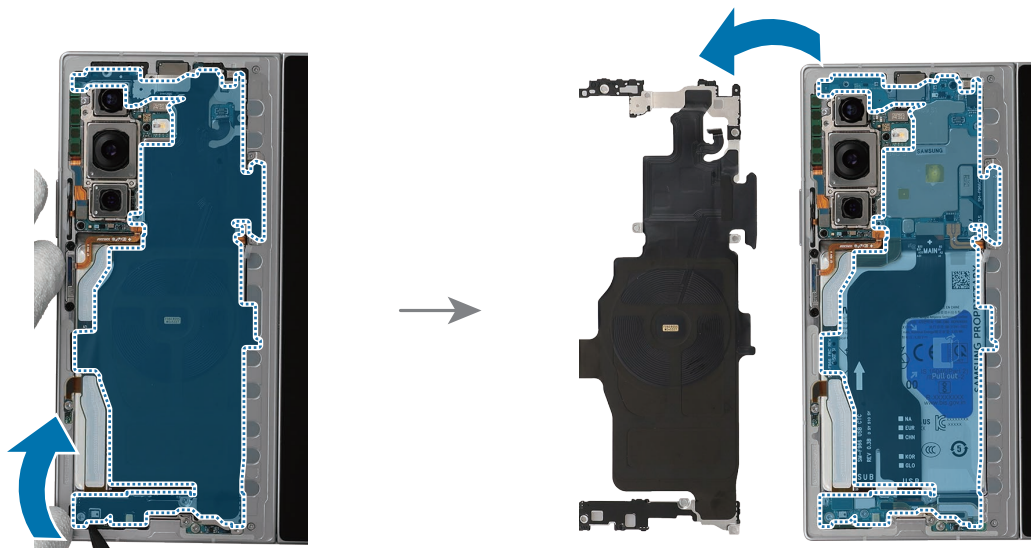
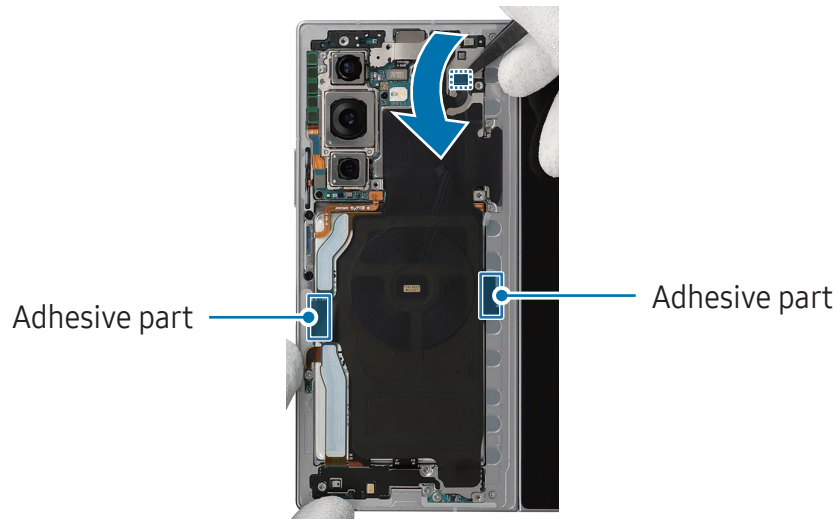
Disassembly

- ⚠️ Ensure that the device is fixed on a flat surface.
 - 📝
 - Remove the [Back Cover](#) first before you begin.
 - Separate and replace only the problematic camera.
- 1 Check the screws at the 9 different points and remove them using a cross-head screwdriver.
- ⚠️ Be careful not to damage the camera frame and the main board.
 - 📝 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



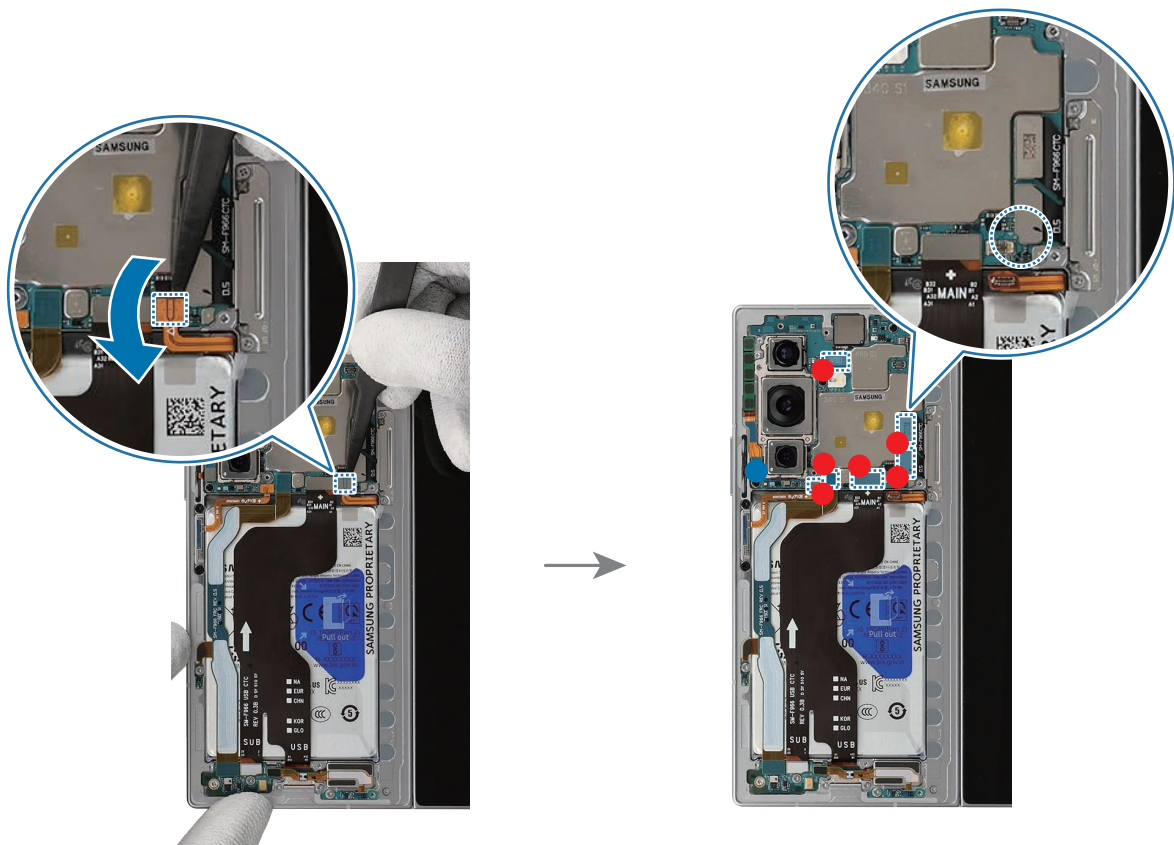
2 Using the tweezers, separate the MFC connector and the adhesive tapes carefully. Then, using the tweezers, lift up on the upper left of the bottom antenna and remove it from the device carefully along with the wireless charging module.

- ⚠ • Be careful not to tear any connected components near the wireless charging module.
- Ensure that the wireless charging module is unfolded to prevent damaging the FPCB.



3 Disconnect the battery connector from the main board first. Using the tweezers, disconnect the connectors from the main board. For the United States 5G devices, disconnect the 5G mmWave antenna connector (●) additionally.

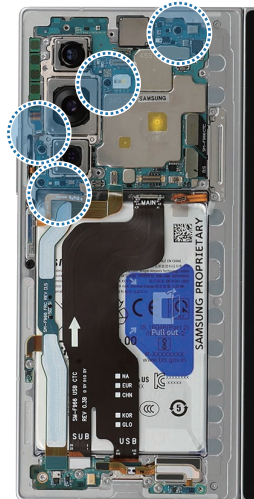
- ⚠ • Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.
- ⚠ • Be careful not to damage the cable.
- Be careful not to damage the main board and near components.
- ✍ • The 5G mmWave antenna module and its connector are only available in United States devices.
- The cables and connectors may vary depending on the country, region, or specification.
- Use the tweezers following the red points (●) not to damage other components on the board.



4 Check and remove the screws at the 4 different points on the main board.

⚠ When removing the screws, be careful not to damage the camera lens and the main board.

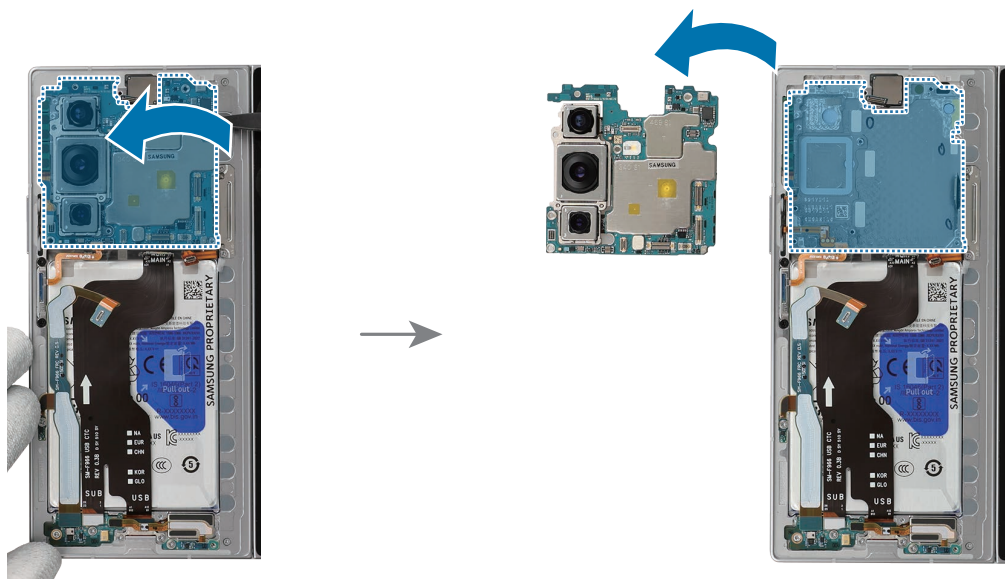
📝 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



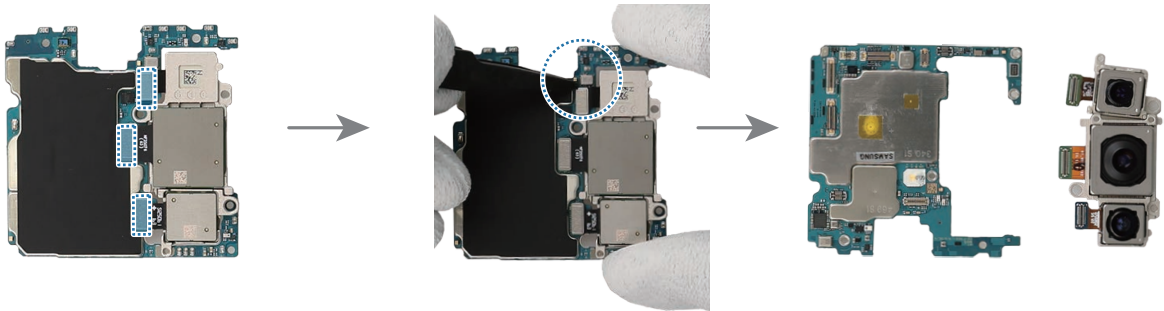
5 Using the tweezers, lift up on the separator groove of the main board and remove it carefully.

⚠ Be careful not to damage the battery.

⚠ Be careful not to damage the main board and near components.



- 6 Turn the separated main board upside down. Using the tweezers, carefully separate the ultra wide camera connectors one by one. Then, using your fingers, remove the camera carefully and leave the camera lens facing up.



- 7 Using your fingers, remove the tele camera.

- ⚠ • Be careful not to touch the camera lens while removing the camera.
- Be careful not to damage the camera and near components.



- 8 Using the tweezers, remove the ultra wide camera and wide camera.

- ⚠ • Be careful not to touch the camera lens while removing the camera.
- Be careful not to damage the camera and near components.

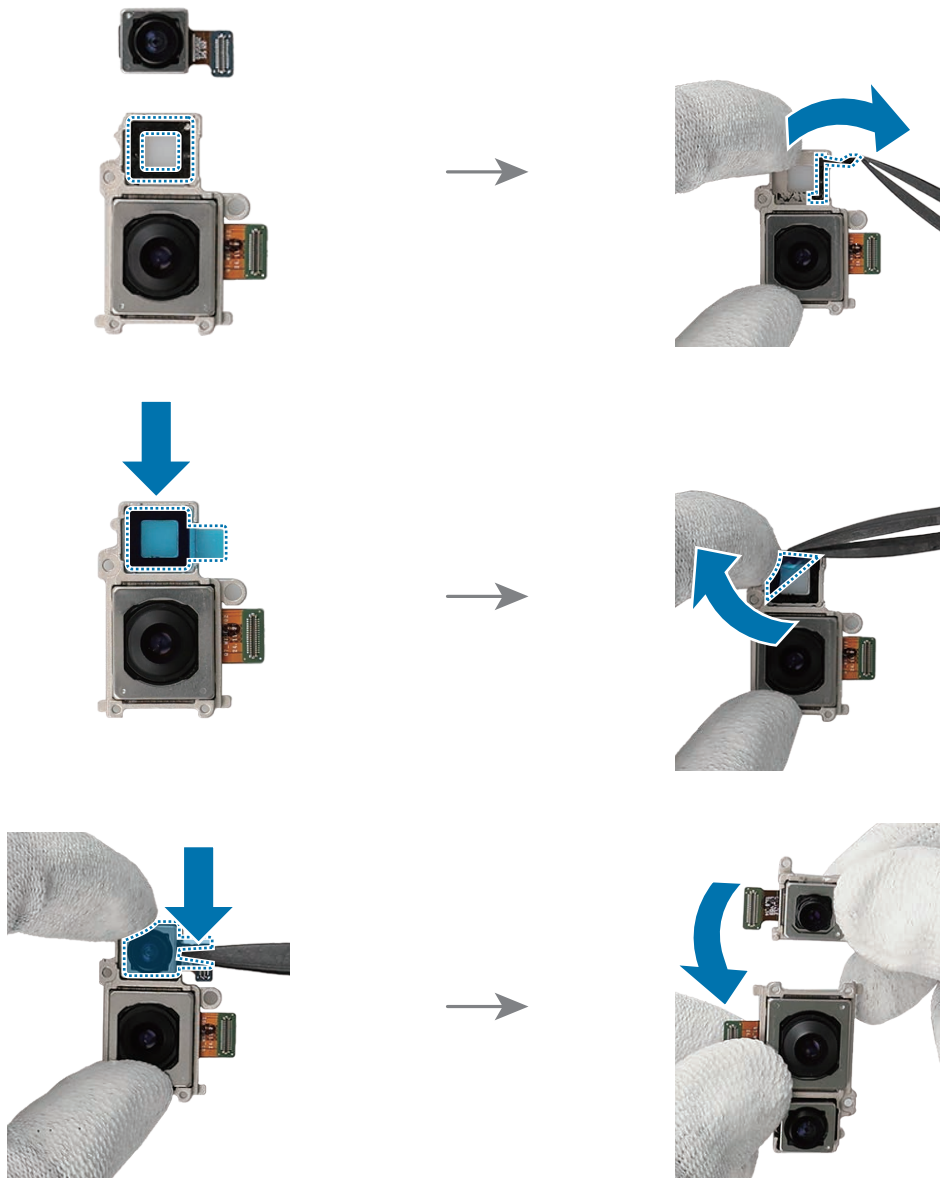


Reassembly


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

1 Remove the adhesive tapes remained. Attach the camera window tape on the location where the ultra camera was, and then remove the release film with the tweezers. Assemble the ultra camera with other cameras.

- ⚠** • Be careful not to drop the camera while connecting the connector.
- Be careful not to damage the camera lens and near components.
- Be careful not to damage the main board.




4 Fasten the screw 3604 (4 ea) on the main board.

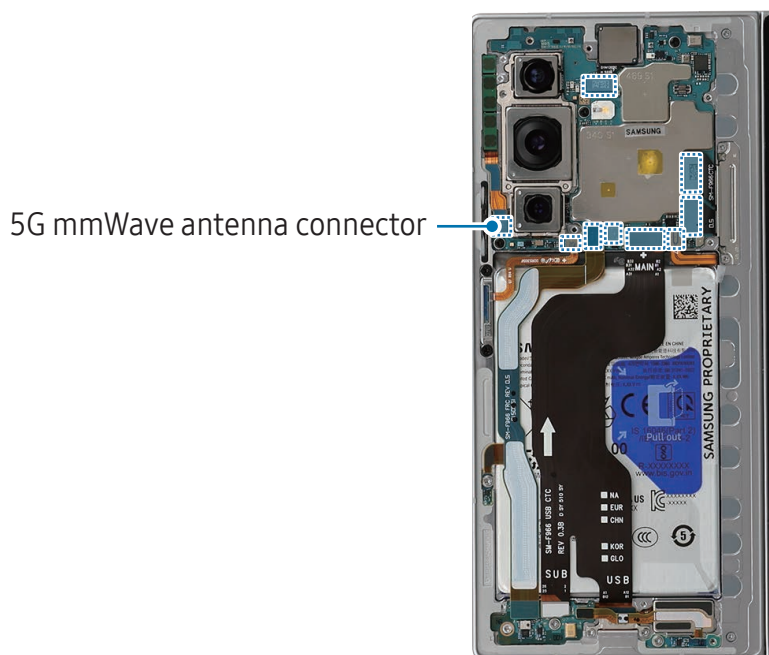
 Be careful not to damage the battery.

 Be careful not to damage the main board and near components.

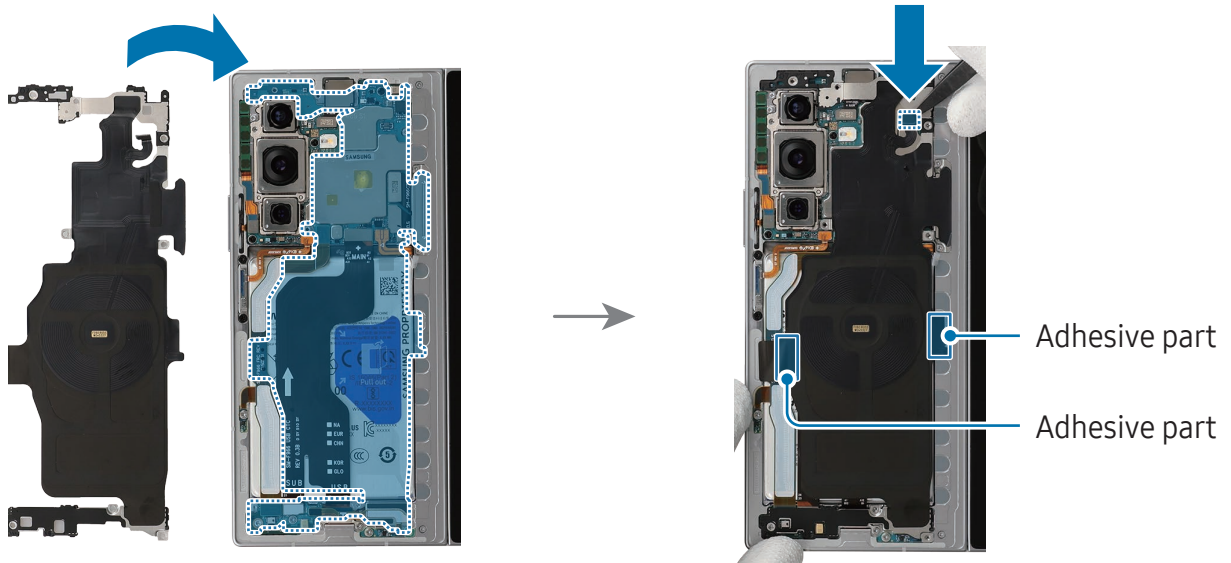


5 Connect the connectors to the main board. Then, connect the battery connector. For the United States 5G devices, connect the 5G mmWave antenna connector with your fingers.

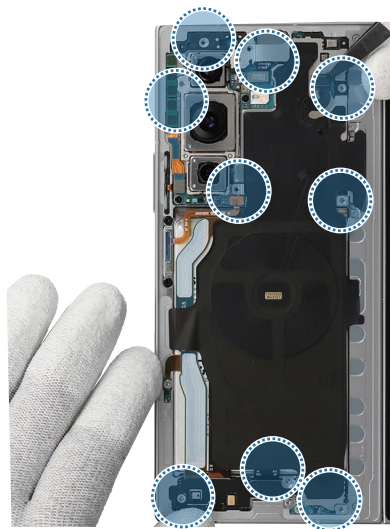
-  • The 5G mmWave antenna module and its connector are only available in United States devices.
- The cables and connectors may vary depending on the country, region, or specification.



- Place the wireless charging module in the correct location. Attach the adhesive tapes on the correct parts. Then, connect the MST connector.



- Fasten the screw 3593 (9 ea) on the back side to fix the wireless charging module.



- Reassemble the [Back Cover](#) to complete assembly.


Top Speaker

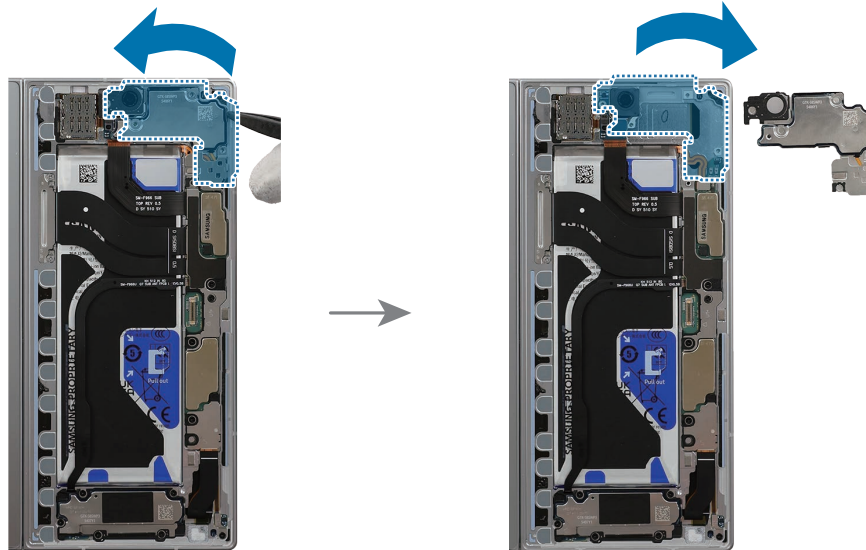
Disassembly

- ⚠️ Ensure that the device is fixed on a flat surface.
 - ✍️
 - Remove the [Cover Screen](#) first before you begin.
 - The top speaker is built into the top of the sub side in the device.
- 1 Check the screws at the 5 different points on the top speaker and remove them using a cross-head screwdriver.
- ⚠️ Be careful not to damage the top speaker module and 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 device during assembly.




- Using the tweezers, lift up on the separator groove to the upper right corner where the arrow in the top speaker module is displayed, and then carefully remove it from the device.


 Be careful not to damage the near components.

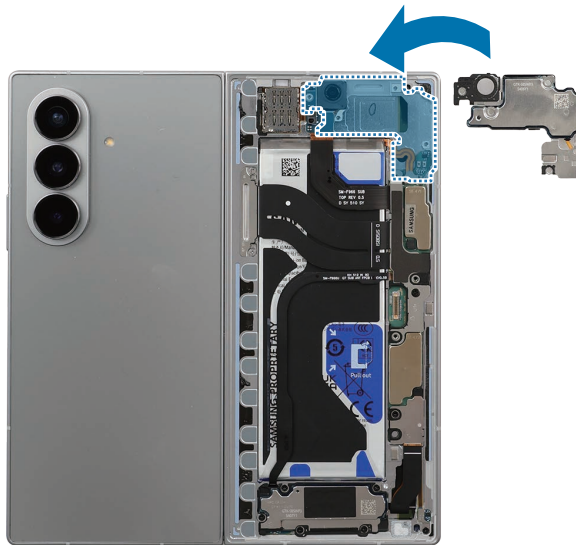


Reassembly


 Leaving screws inside the device may damage internal components, such as the battery. During assembly, be extra careful not to leave any unassembled screws inside the device.


1 Using the tweezers or your fingers, assemble the top speaker module on the top of the sub side. Press down on it in its position until you hear a locking sound.

 Be careful not to damage the near components.



2 Check the screw 3578 (5 ea) at the 5 different points of the top speaker module and fasten them using a cross-head screwdriver.

 Be careful not to damage the battery.

 Be careful not to damage the speaker and near components.



 Reassemble the [Cover Screen](#) to complete assembly.

Bottom Speaker

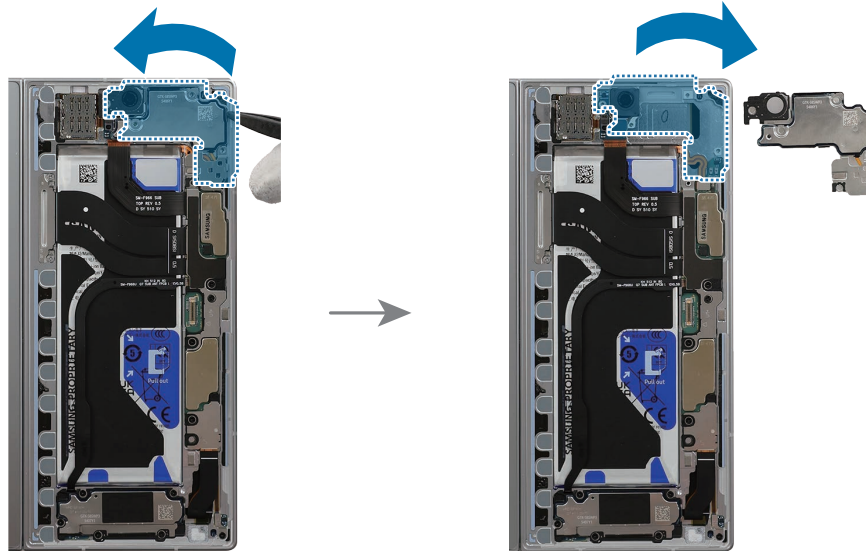
Disassembly

- ❗ Ensure that the device is fixed on a flat surface.
 - ✍
 - Remove the [Cover Screen](#) first before you begin.
 - The bottom speaker is built into the bottom of the sub side.
- 1 Check the screws at the 10 different points on the top and bottom speaker and remove them using a cross-head screwdriver.
- ❗ Be careful not to damage the top speaker module and 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 device during assembly.



2 Using the tweezers, lift up on the separator groove to the upper right corner in the top speaker module, and then carefully remove it from the device.

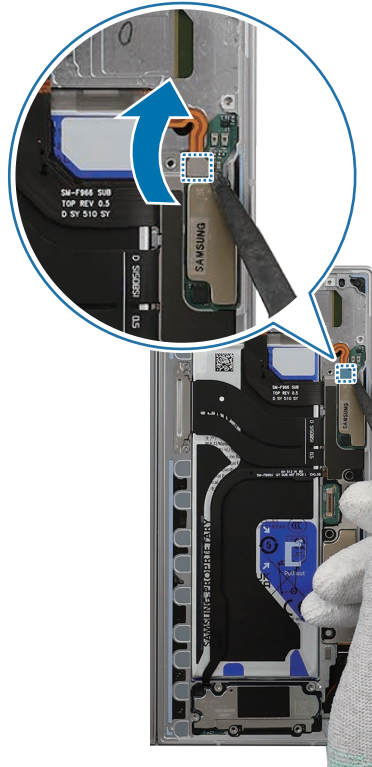
⚠ Be careful not to damage the near components.



3 Using the tweezers, disconnect the battery connector.

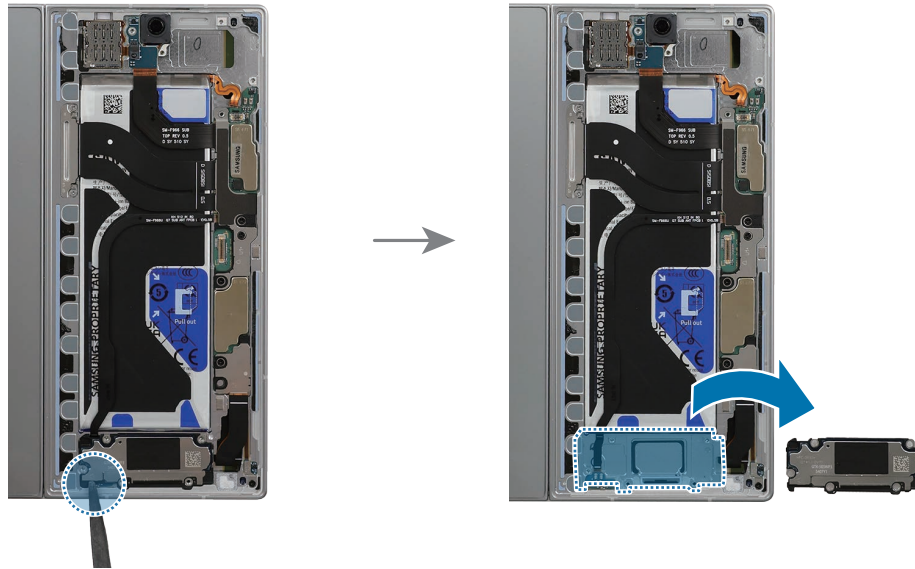
- ⚠ • Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.

⚠ Be careful to not damage the battery connector and near components.



4 Using the tweezers, lift up on the separator groove to the lower left corner, and then carefully remove it from the device.

⚠ Be careful not to damage the near components.

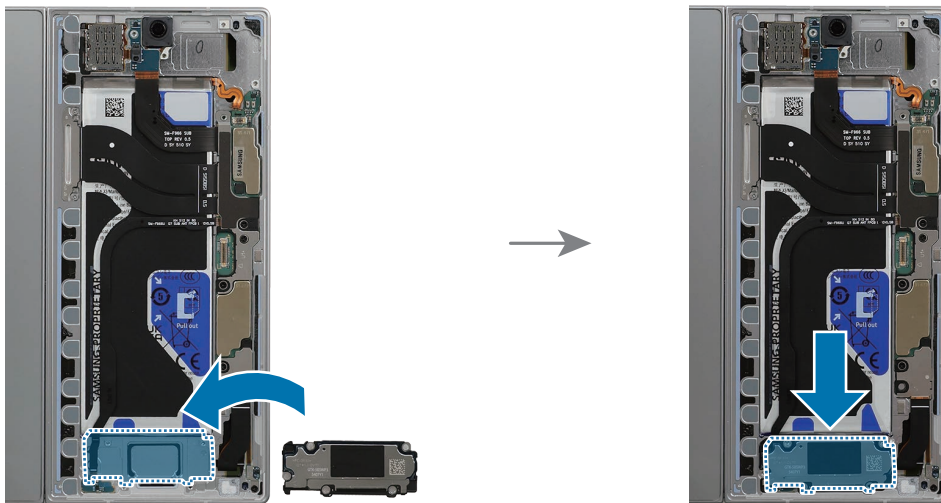


Reassembly

! Leaving screws inside the device may damage internal components, such as the battery. During assembly, be extra careful not to leave any unassembled screws inside the device.

1 Using the tweezers or your fingers, assemble the bottom speaker module on the bottom of the sub side. Press down on it in its position until you hear a locking sound.

! Be careful not to damage the near components.



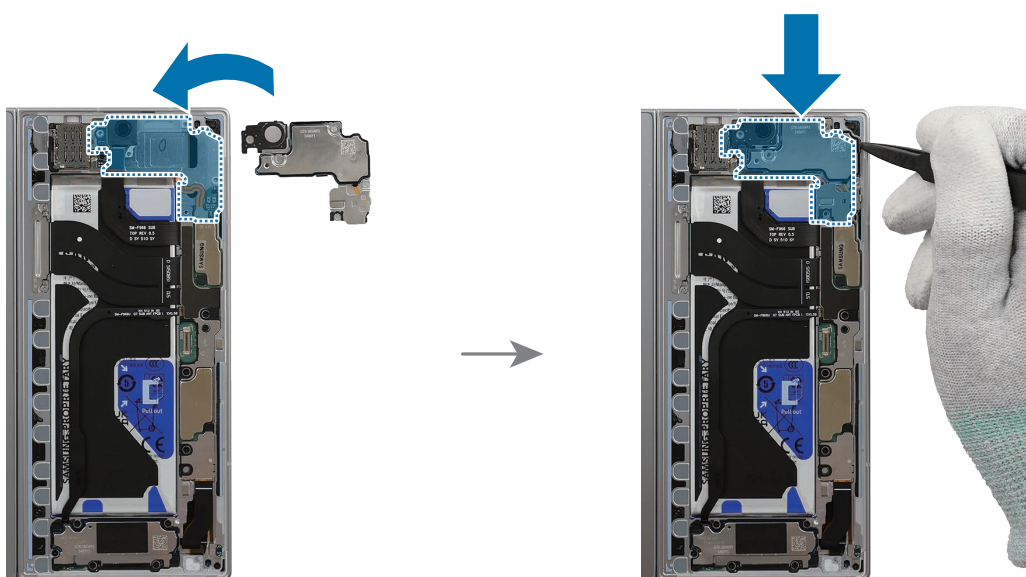
2 Connect the battery connector.

⚠ Be careful not to damage the battery connector and near components.



3 Using the tweezers or your fingers, assemble the top speaker module on the top of the sub side. Press down on it in its position until you hear a locking sound.

⚠ Be careful not to damage the near components.



4 Check the screw 3578 (10 ea) at the 10 different points on the top and bottom speaker and fasten them using a cross-head screwdriver.

⚠ Be careful not to damage the speaker and the near components.



📝 Reassemble the [Cover Screen](#) to complete assembly.


Cover Camera

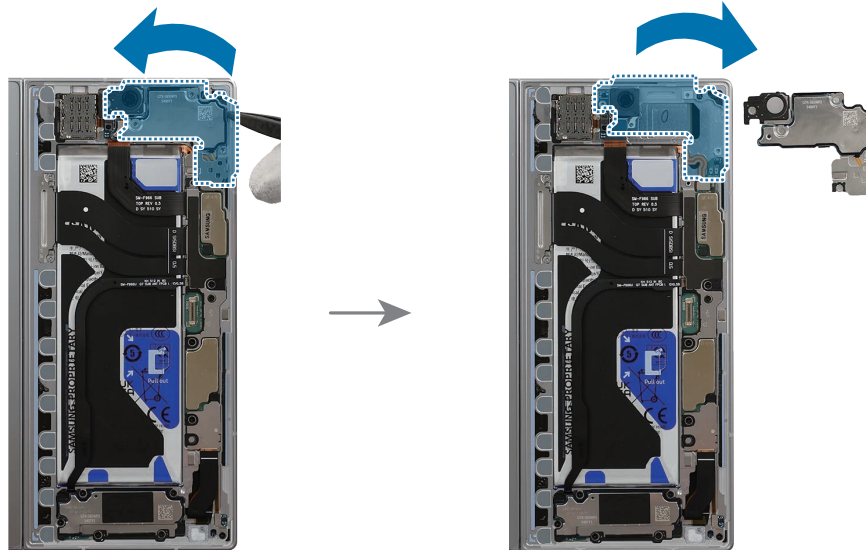
Disassembly

- ❗ Ensure that the device is fixed on a flat surface.
 - 📝 Remove the [SIM Card Tray](#) and [Cover Screen](#) first before you begin.
- 1 Check and remove the 7 screws pointed with the cross-head screwdriver.
- 📝 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.




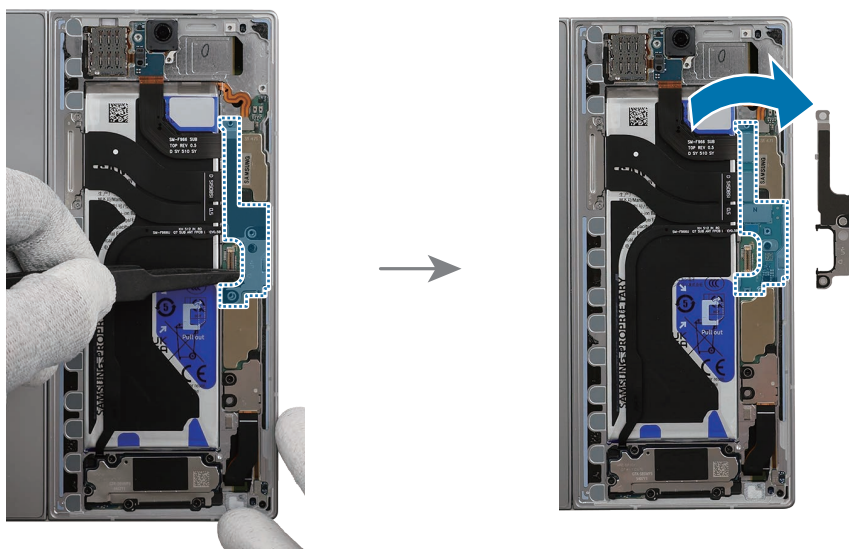
- Using the tweezers, lift up on the separator groove to the upper right corner where the arrow in the top speaker module is displayed, and then carefully remove it from the device.

 Be careful not to damage the near components.



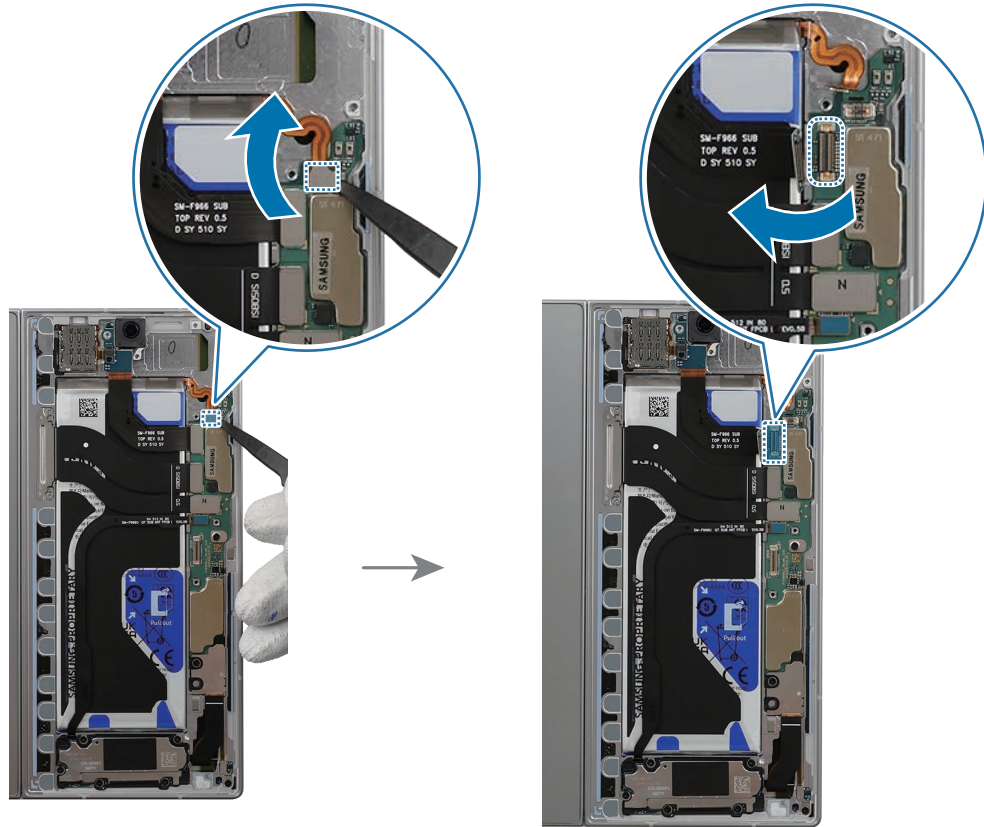
- Using the tweezers, lift up on the separator groove to the upper where the arrow in the device is displayed, and then carefully remove the rear mid from the device.

 Be careful not to damage the near components.



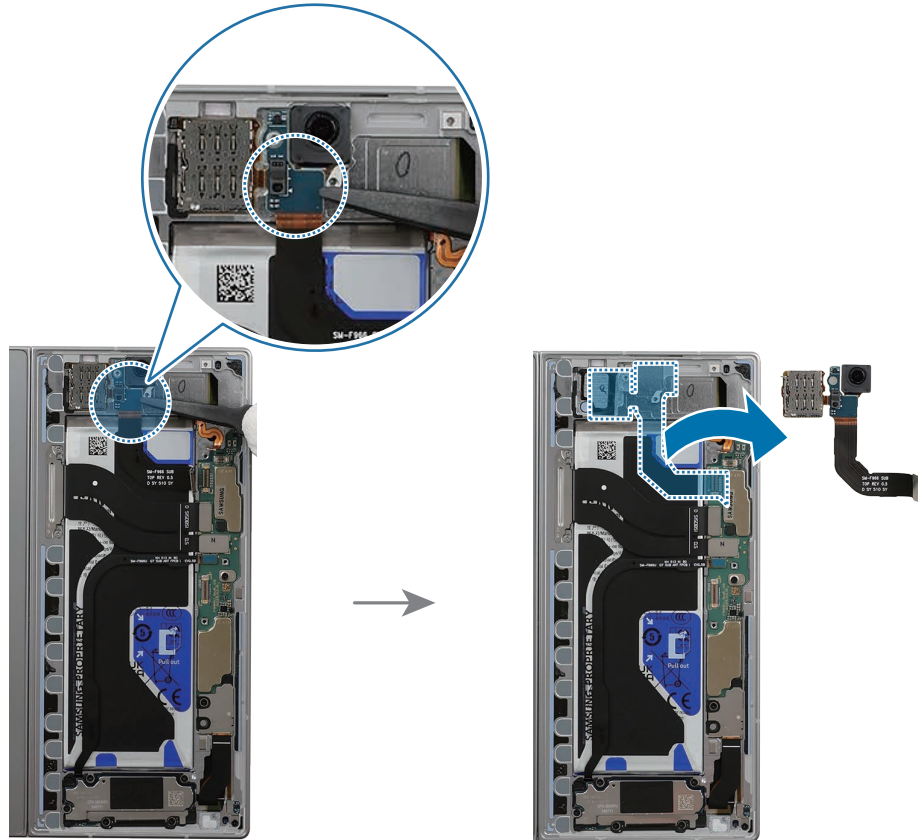
- Using the tweezers, disconnect the battery connector first and then disconnect the top FPCB connector.

⚠ Be careful not to damage the near components.




5 Using the tweezers, lift up the cover camera with the SIM card tray at the pointed position.


⚠ Be careful not to damage the near components.




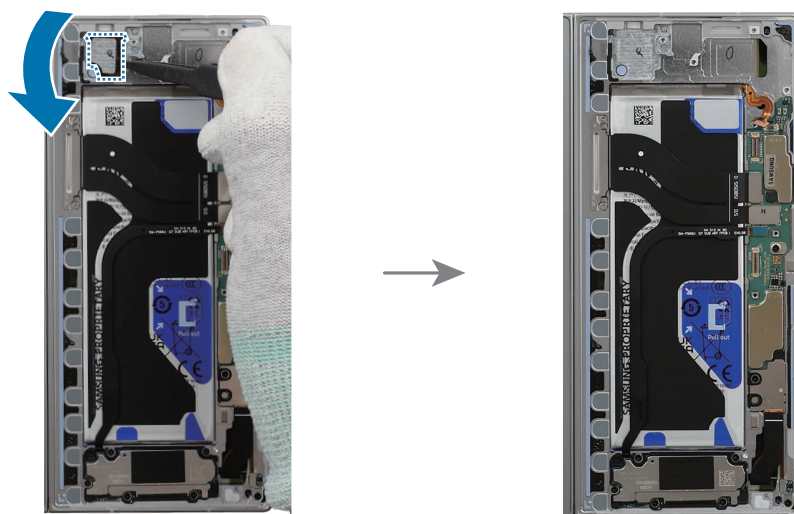
Reassembly

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

1 Remove the adhesive tape completely from where the SIM card tray was.

 Be careful not to damage the battery.

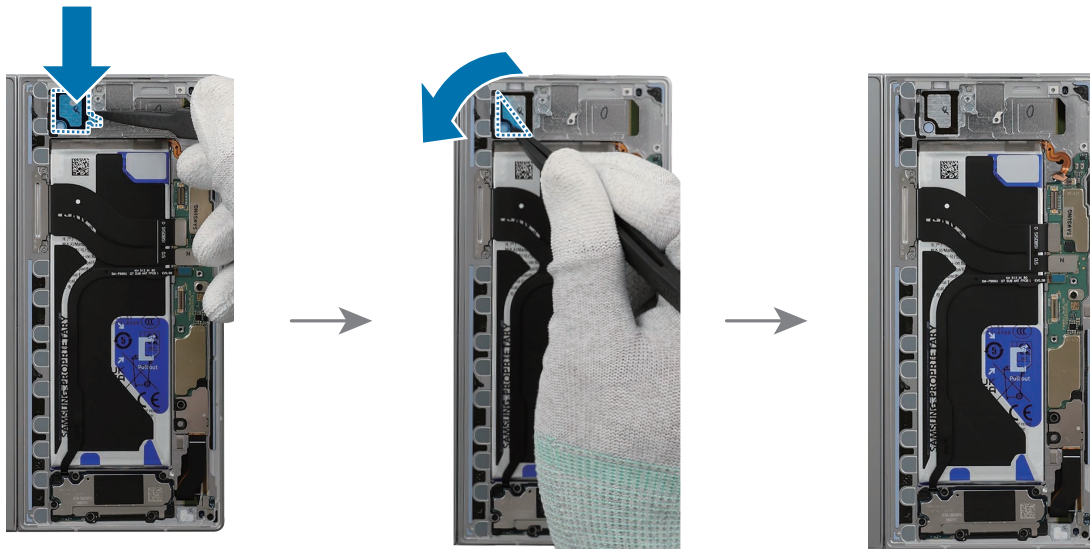
 Be careful not to damage the FPCBs while removing the remained adhesive tape.




2 Align and fit the tape for the SIM card tray and attach it accurately. Gently press down the tape with the tweezers so that the tape can be attached well. Then, remove the release film of the new SIM card tray adhesive tape.


⚠ Be careful not to damage the battery.

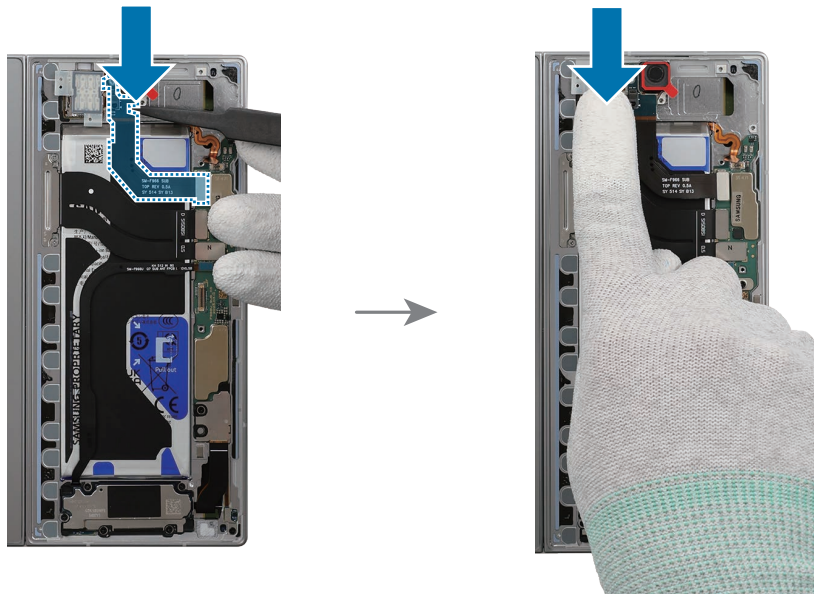
⚠ Be careful not to damage the FPCBs while removing the remained adhesive tape.



- 3 Using the tweezers or your fingers, place the cover camera in the camera hole and place the SIM card tray with the tweezers. Gently press down the SIM card tray so that it can be attached well.

 Be careful not to damage the battery.

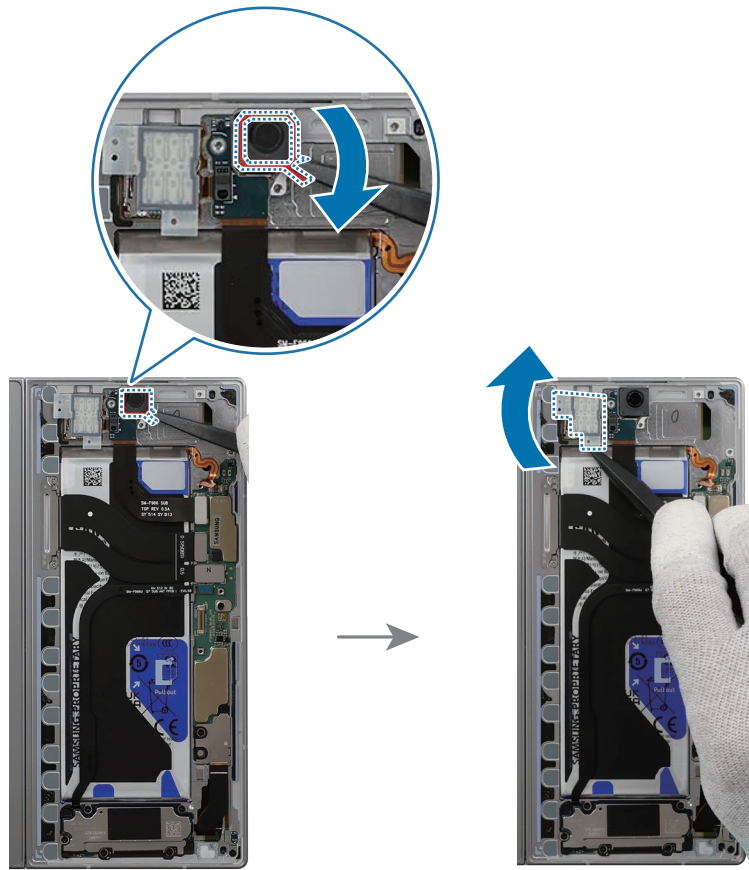
 Be careful not to damage the FPCBs while removing the remained adhesive tape.



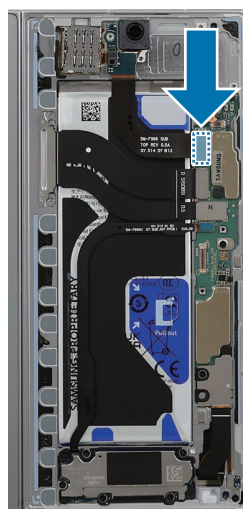
4 Using tweezers, remove the cover camera tape and the SIM card tray tape.

⚠ Be careful not to damage the battery.

⚠ Be careful not to damage the FPCBs while removing the remained adhesive tape.

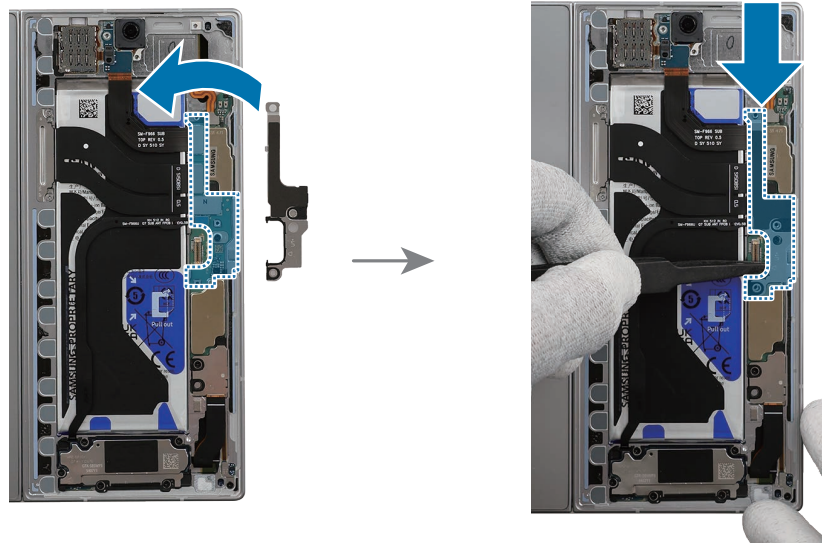


5 Using your fingers or other tool, connect the cover camera connector.



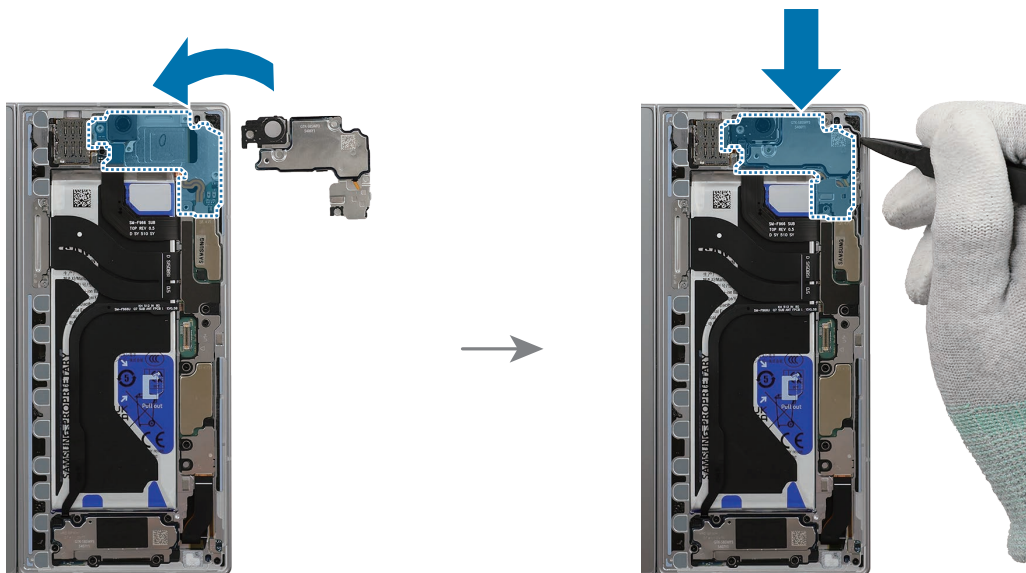
6 Using the tweezers, place the rear mid on the proper location.

⚠ Be careful not to damage the near components.



7 Using the tweezers or your fingers, place the top speaker module on the top of the sub side. Press down on it in its position until you hear a locking sound.

⚠ Be careful not to damage the near components.



8 Fasten the screw 3578 (7 ea) pointed with a cross-head screwdriver.

⚠ Be careful not to damage the camera lens and near components.



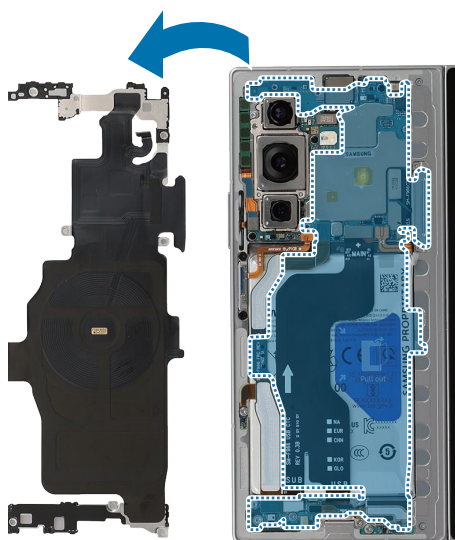
📦 Reassemble the [Cover Screen](#) and [SIM Card Tray](#) to complete assembly.

Side Button (Fingerprint Recognition Sensor)

- ✎ The Side button has a built-in fingerprint recognition sensor. Thus, it cannot be removed directly from the outside.

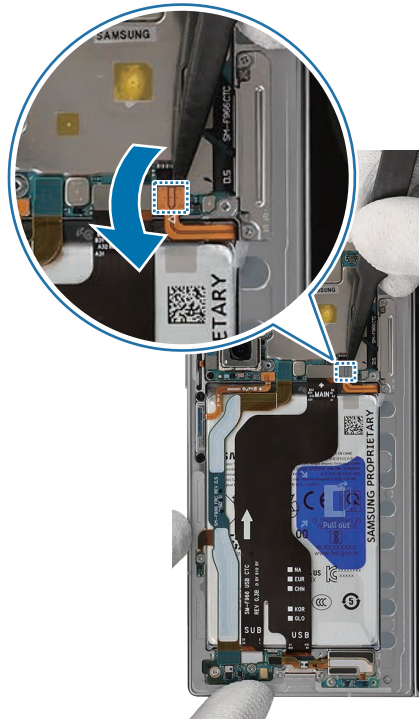
Disassembly

- ✎ • Remove the [Back Cover](#) first before you begin.
- Refer to [Rear Camera](#) to remove the wireless charging module.



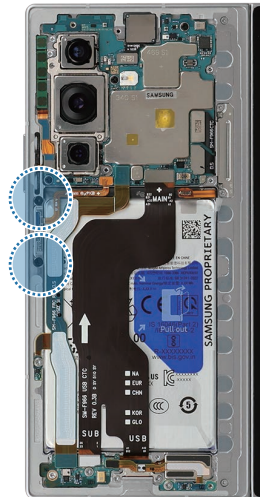
1 Disconnect the battery connector from the main board first.

- ⚠ • Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.
- ⚠ • Be careful not to damage the cable.
- Be careful not to damage the main board and near components.



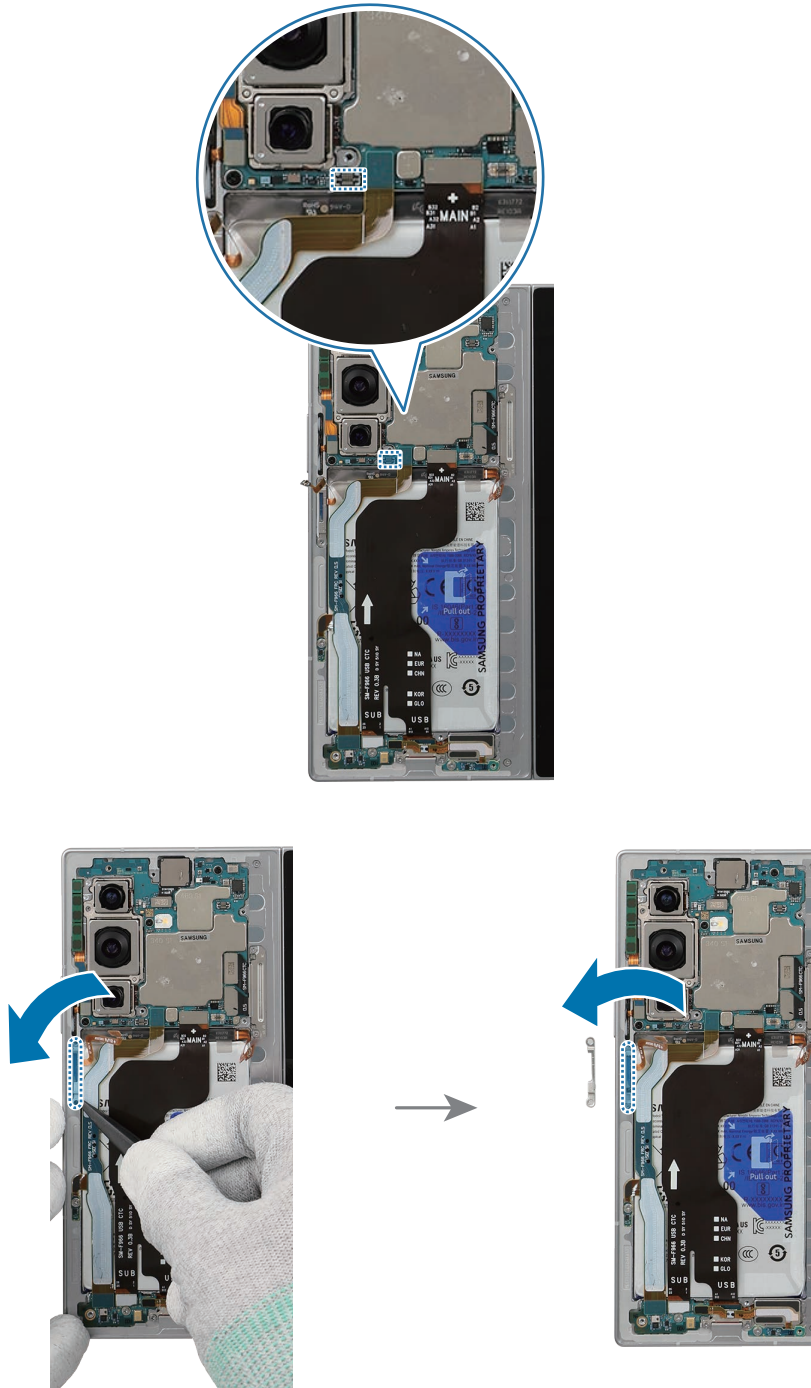
2 Check the screws at the 2 different points and remove them using a cross-head screwdriver.

- ⚠ Be careful not to damage the battery.
- ⚠ When removing the screws, 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 device during assembly.



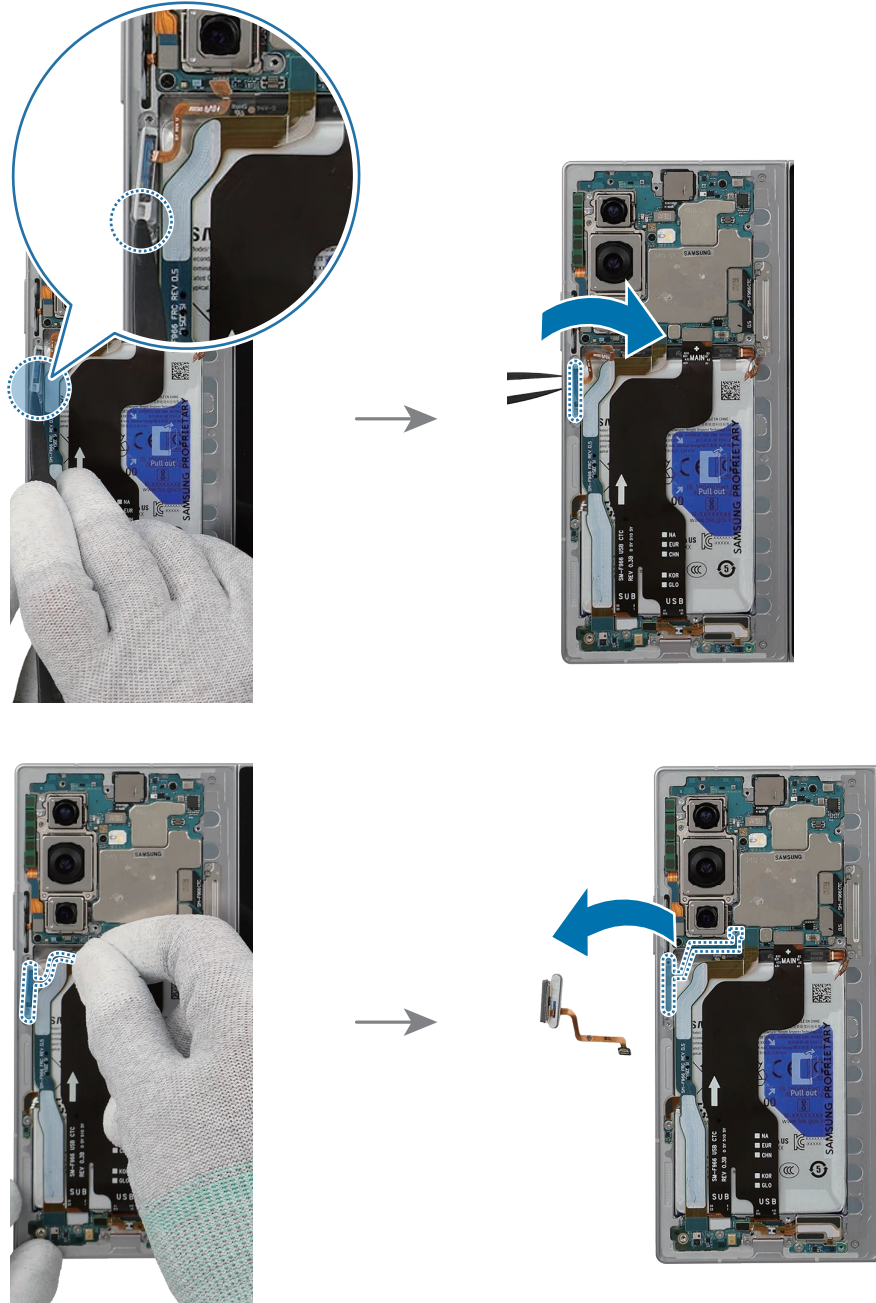
3 Using the tweezers, disconnect the finger print connector from the main board. Then, remove the finger print sus part.

⚠ Be careful not to damage the near components.




4 Using the tweezers, remove the fingerprint bracket. Then, remove the fingerprint connector and part with your fingers.


⚠ Be careful not to damage the near components.

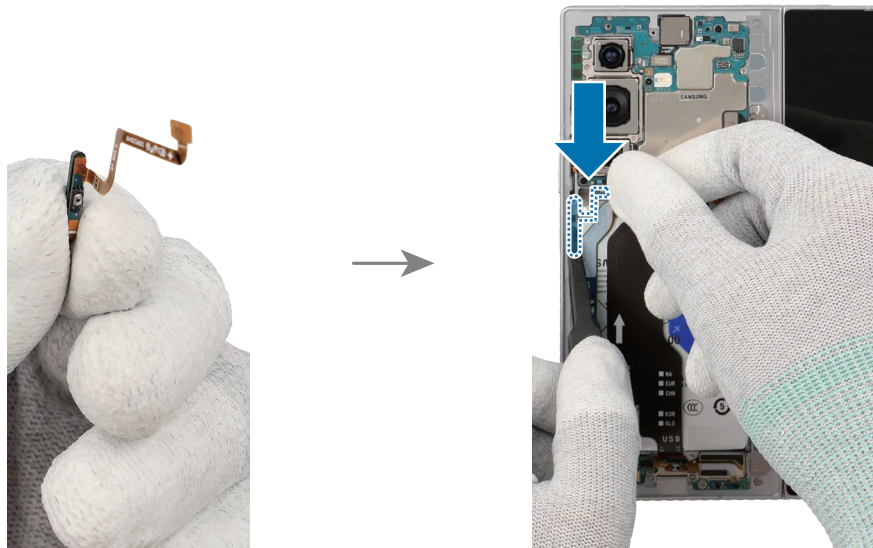


Reassembly

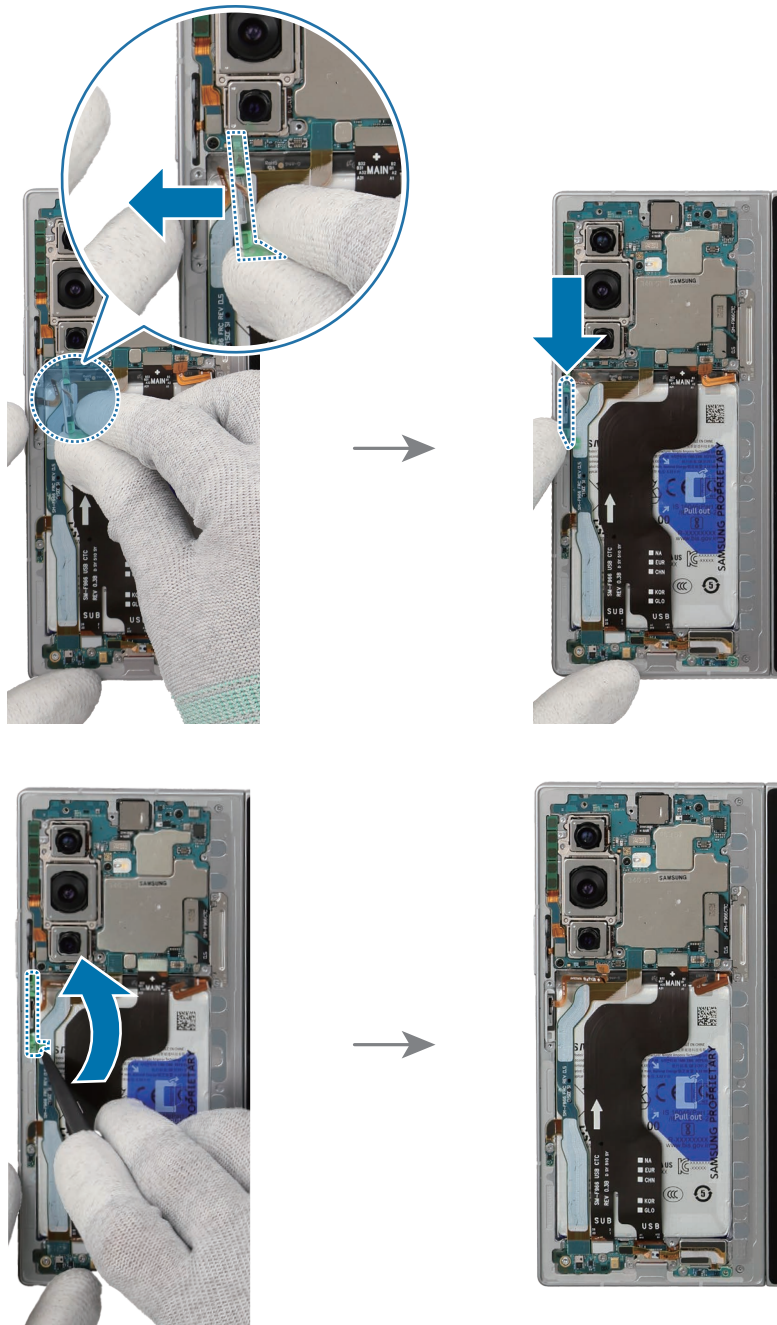
 Leaving screws inside the device may damage internal components, such as the battery. During assembly, be extra careful not to leave any unassembled screws inside the device.

1 Using tweezers or your fingers, insert the new fingerprint part to the location where the fingerprint sensor was.

 Be careful not to damage the near components.

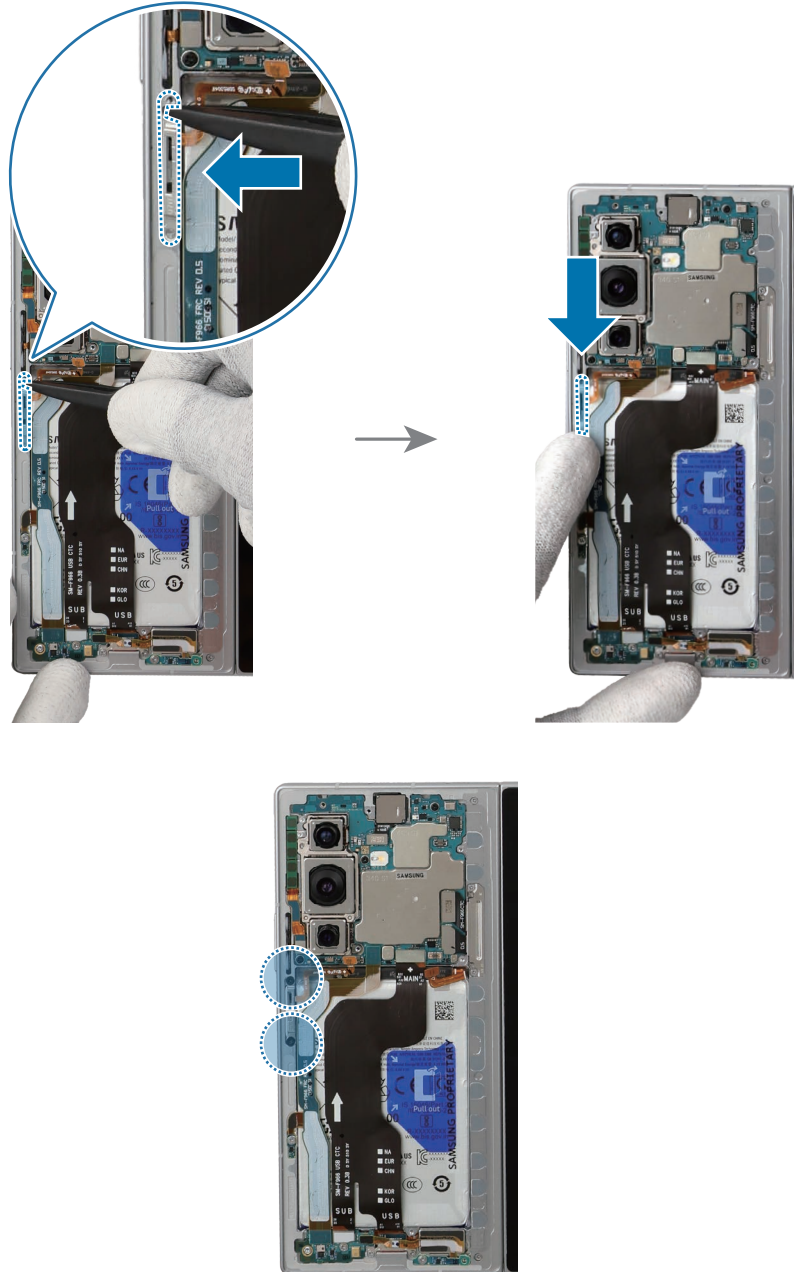


- Using the tweezers or your fingers, insert the new fingerprint bracket to the fingerprint sensor through the flexible cable. Remove the adhesive tape from the new fingerprint bracket.

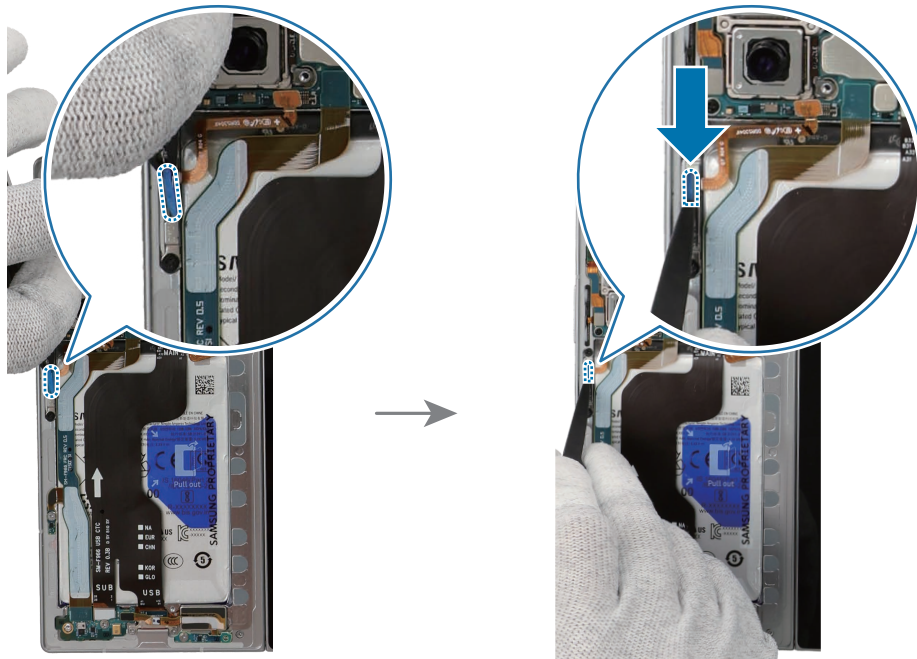


- Using the tweezers or your fingers, gently place the fingerprint sus on the fingerprint bracket. Then, fasten the screw 3594 (2 ea) using a cross-head screwdriver.

⚠ Be careful not to damage the near components.



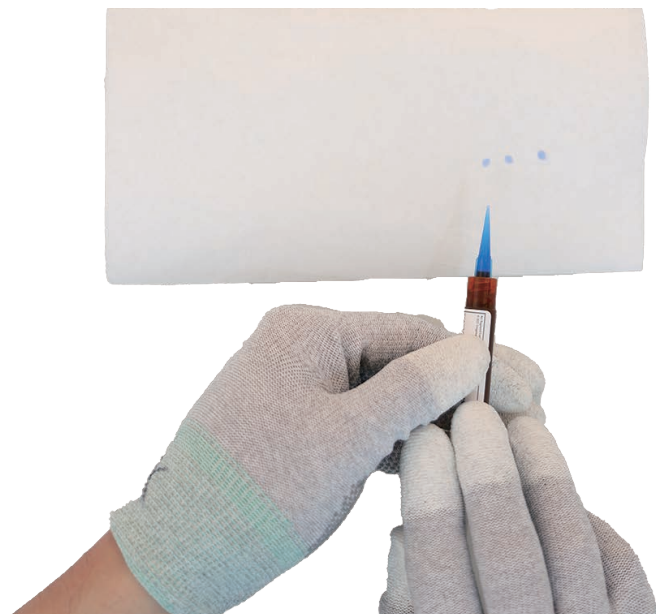
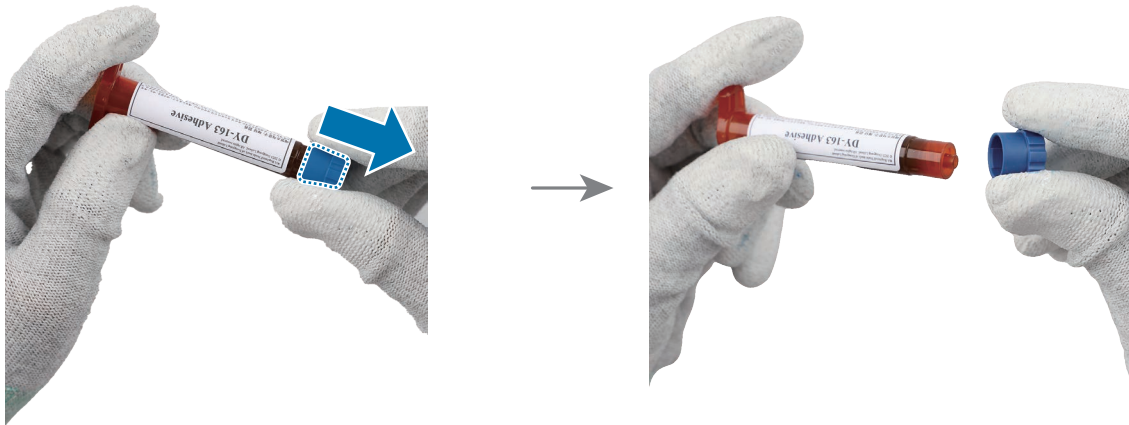
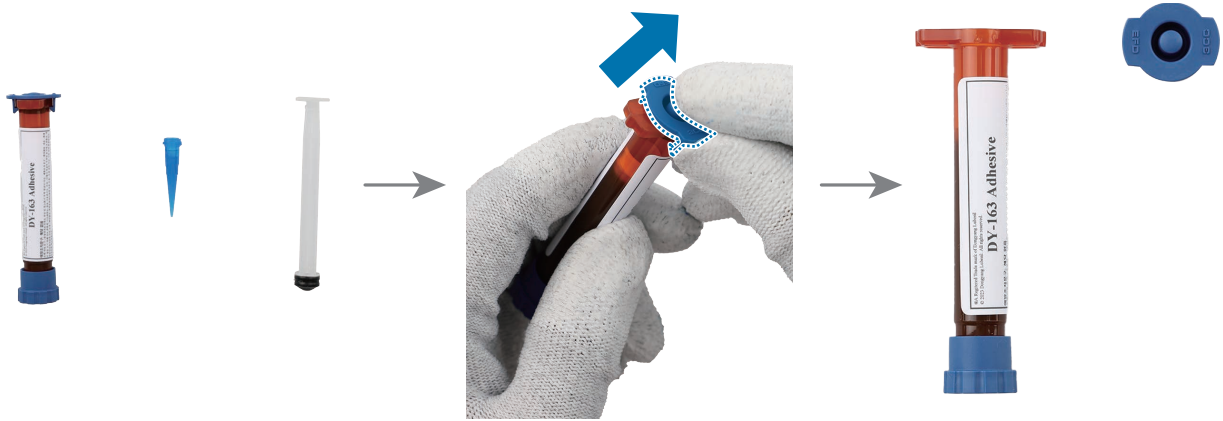
4 Insert the key rubber into the fingerprint sus following the sus shape.

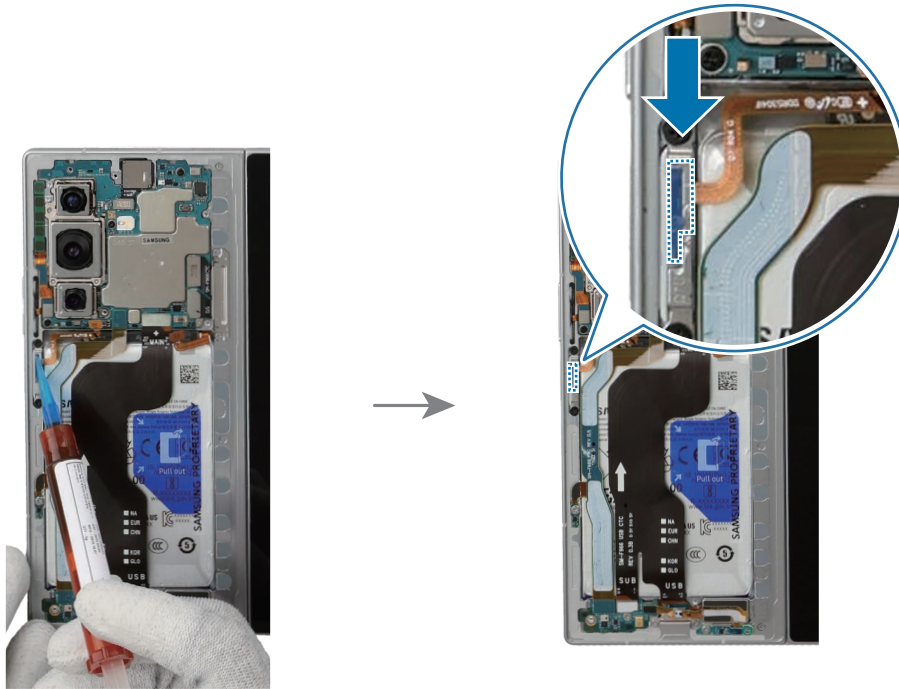


5 Prepare the CIPG adhesive (DY-163). Open the both end caps of the CIPG adhesive and assemble with the needle and piston one by one. Before using the adhesive for the first time, apply it to tissue or paper for about 3 seconds and discard the first part of the adhesive. Inject the adhesive on the fingerprint bracket. Connect the fingerprint connector and then connect the battery connector.

- ⚠ • Before using the adhesive, you must wear protective safety equipments such as glasses, gloves, and a mask for your safety.
- If the adhesive is in contact with the skin, wash it off with clean water immediately.
- Adhesive is not allowed to be used for other purposes.
- Be careful not to get stabbed or injured by needle.
- ⚠ • If the applied adhesives overflows, wipe it carefully with a clean and soft cloth.
- Be careful not to overturn the device or cause external impact for at least 90 minutes while drying the adhesive.
- ✍ The actual adhesive, piston, and needle may be different from the image.

Disassembly and Assembly





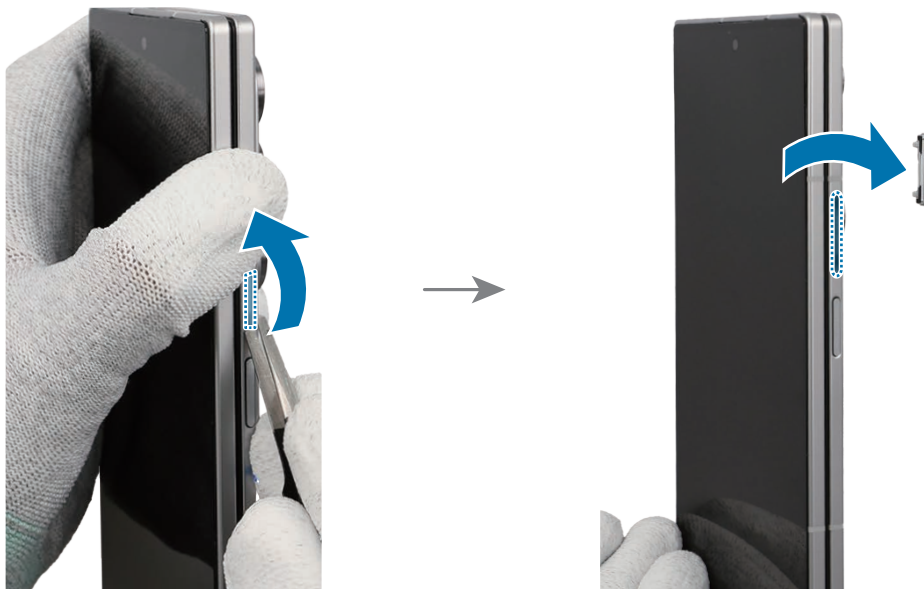
- The CIPG adhesive (DY-163) needs to be dried and be fixed for 90 minutes.
- Reassemble the [Back Cover](#) to complete assembly.

Volume Button

Disassembly

To remove the Volume button, lightly press one end of the button with your fingers so that the other end protrudes. Push the tip of the protruding button up carefully with the round-tip metal tweezers and lift it up until you can grab it with your fingers. Grab the button with your fingers and pull it out carefully from the device.

- ⚠ When holding the buttons with the tweezers, be careful not to damage or scratch the device.
- ✔ If you have trouble separating the buttons with your tweezers, please try using a sharper and thinner tool.

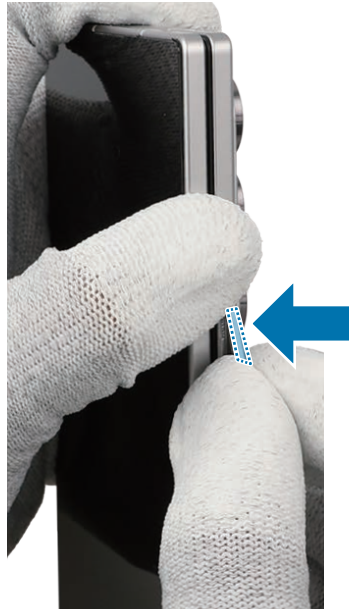


Reassembly

- ⚠ Leaving screws inside the device may damage internal components, such as the battery. During assembly, be extra careful not to leave any unassembled screws inside the device.

Using your fingers, grab the Volume button and insert it on the slot carefully.

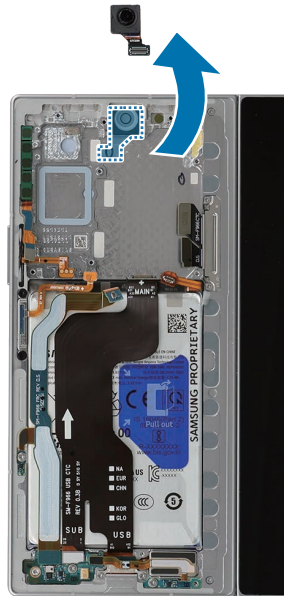
- ⚠ Be careful not to damage the button and device.



Screen Module

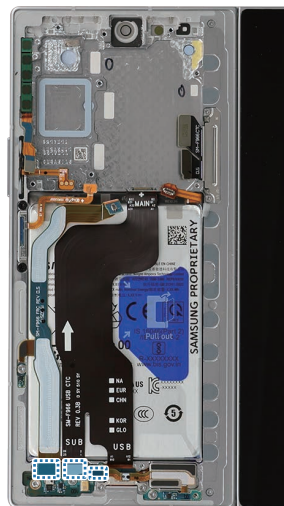
Disassembly

- ✎ Remove the **Front Camera** first before you begin.



- 1 Disconnect the flexible connectors on the lower side.

- ⚠ Be careful not to damage the cable.



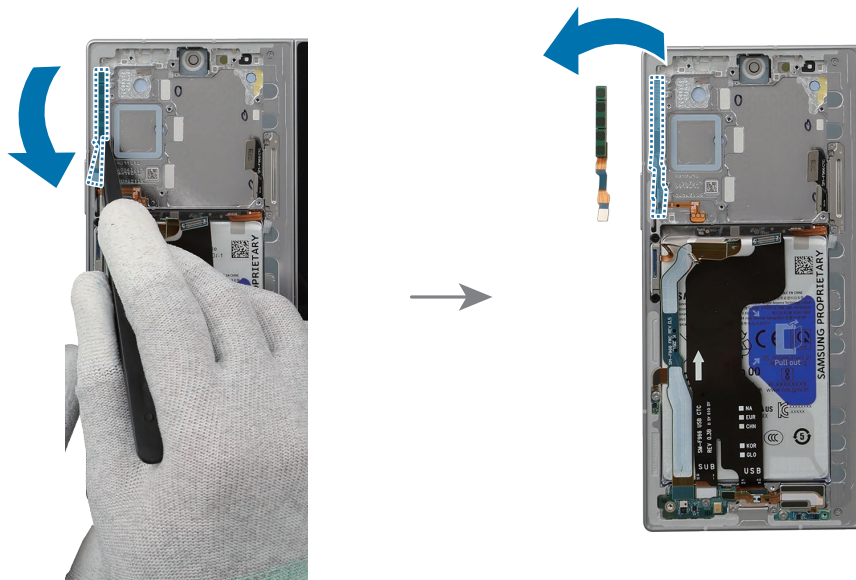
2 Check and remove the 4 screws using a cross-head screwdriver.

- ⚠ Be careful not to damage the battery.
- ⚠
 - Be careful not to damage the cables.
 - Be careful not to damage near components on the board.
- ✓ Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



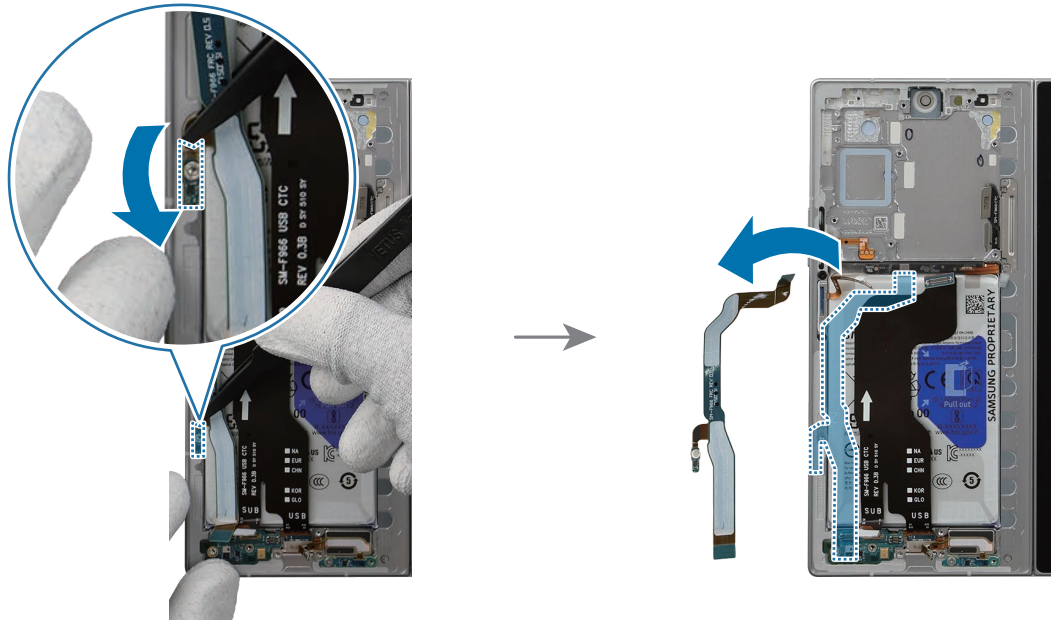
3 For the United States 5G devices, using the tweezers, remove the 5G mmWave antenna.

- ⚠ • Be careful not to damage the cables.
- Be careful not to damage near components on the board.
- 📁 • The 5G mmWave antenna module and its connector are only available in United States devices.
- The cables and connectors may vary depending on the country, region, or specification.



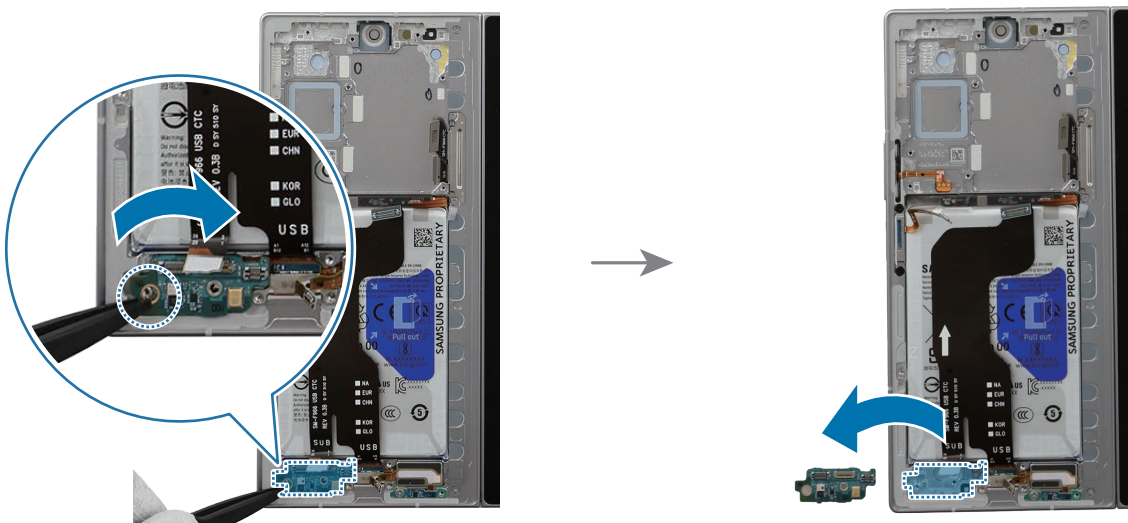
4 Using the tweezers, remove the FRC FPCB.

- ⚠ • Be careful not to damage the near components.
- Be careful not to damage the flexible parts and connectors.
- As the marked part is weak, be careful not to damage it.



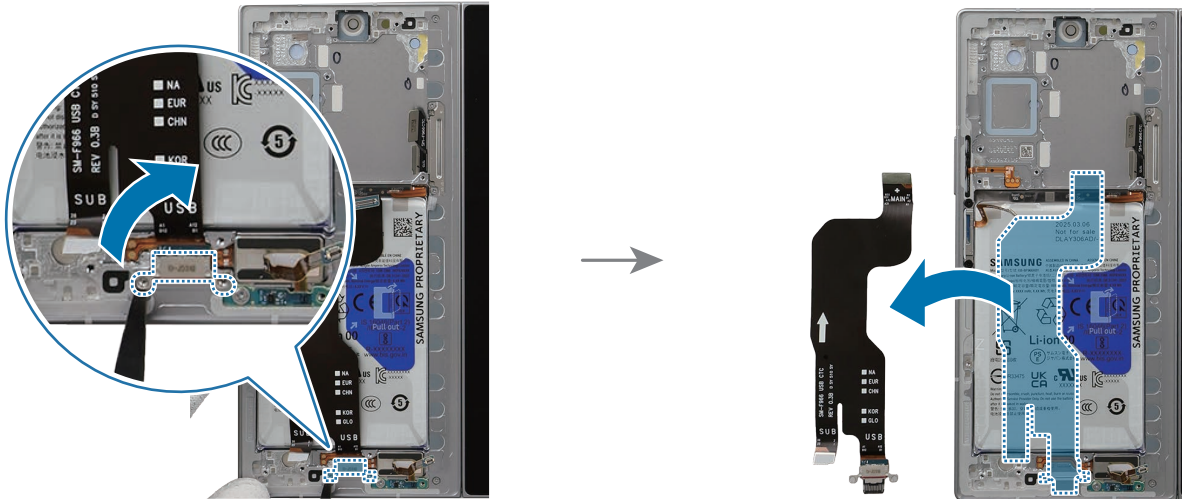
5 Using the tweezers, remove the bottom board.

- ⚠ • Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.
- ⚠ • Be careful not to damage the cable.
- Be careful not to damage the bottom board and near components.



6 Using the tweezers, disconnect the connector of the charging port on the main lower board, and then remove the charging port.

⚠ Be careful not to damage the near components.



7 Before removing the right side parts of the device, remove the [Cover Screen](#).

8 Check and remove the 14 screws on the top and bottom using a cross-head screwdriver.

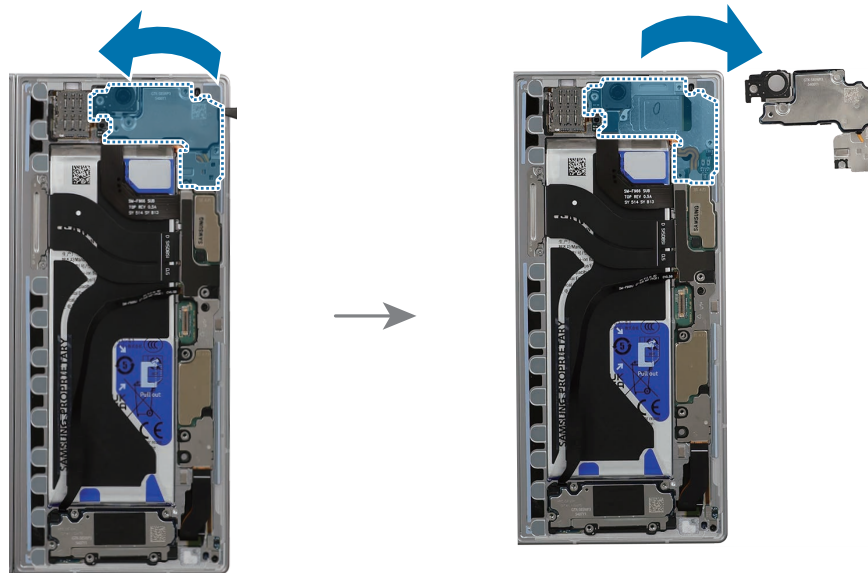
⚠ Be careful not to damage the near components.

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



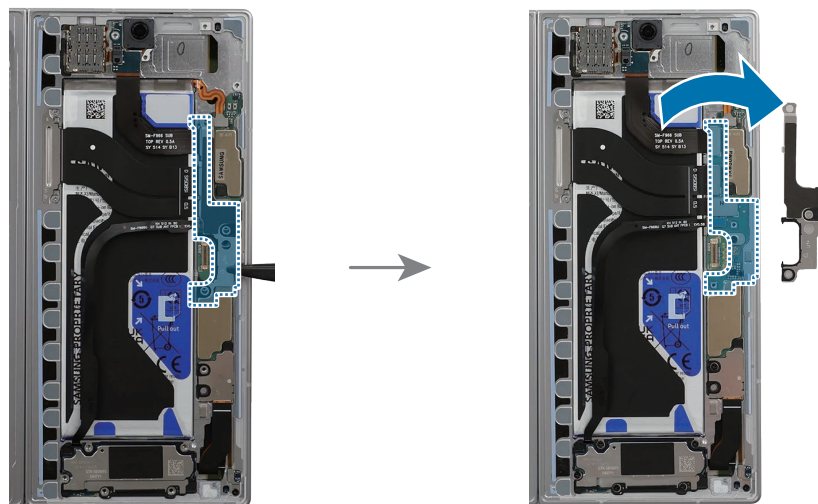
- 9 Using the tweezers, lift up on the separator groove to the upper right corner where the arrow in the top speaker module is displayed, and then carefully remove it from the device.

⚠ Be careful not to damage the near components.



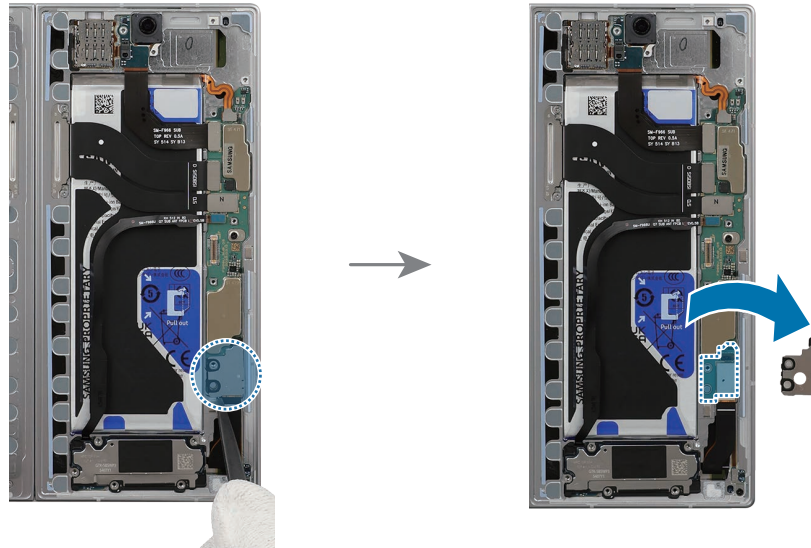
- 10 Using tweezers, disconnect the indicated sub rear mid.

⚠ Be careful not to damage the near components and connectors.



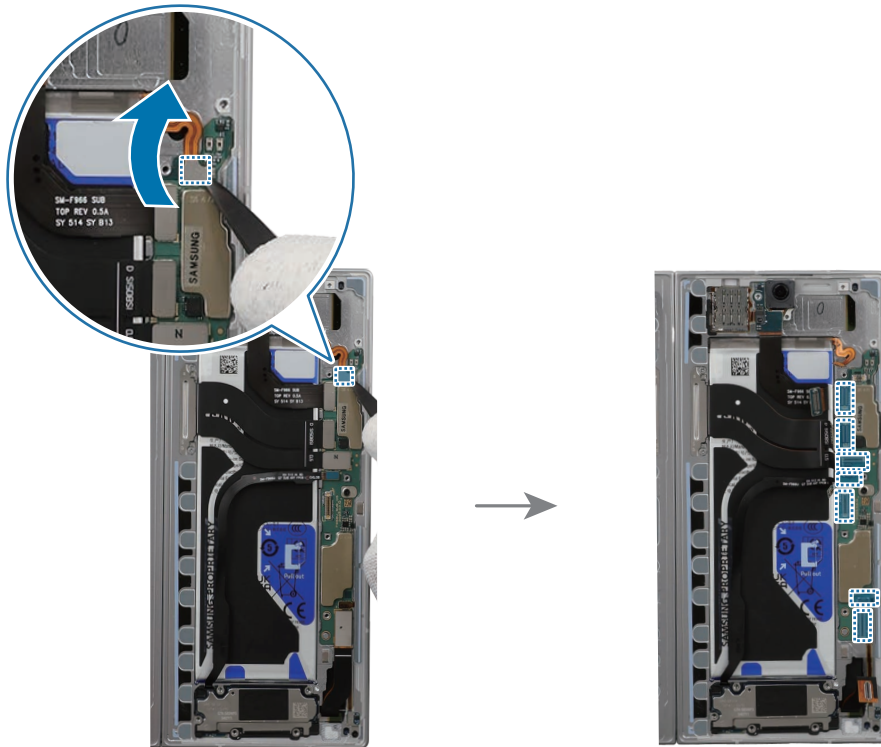
11 Using the tweezers, remove sub rear con cap.

- ⚠ • Be careful not to damage near components
- Be careful not to damage the flexible cables.
- Make sure not to lose the screw.



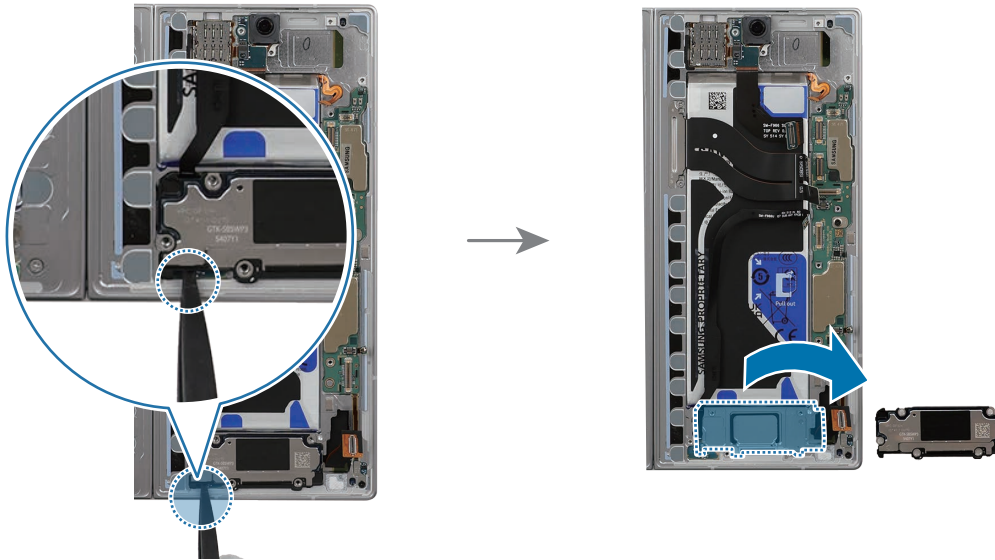
12 Disconnect the battery connector first. Then, disconnect the 7 connectors on the sub board.

- ⚠ • Be careful not to damage the near components.
- Be careful not to damage the flexible cables.



13 Using the tweezers, lift up on the separator groove to the lower left corner where the arrow in the bottom speaker module is displayed, and then carefully remove it from the device.

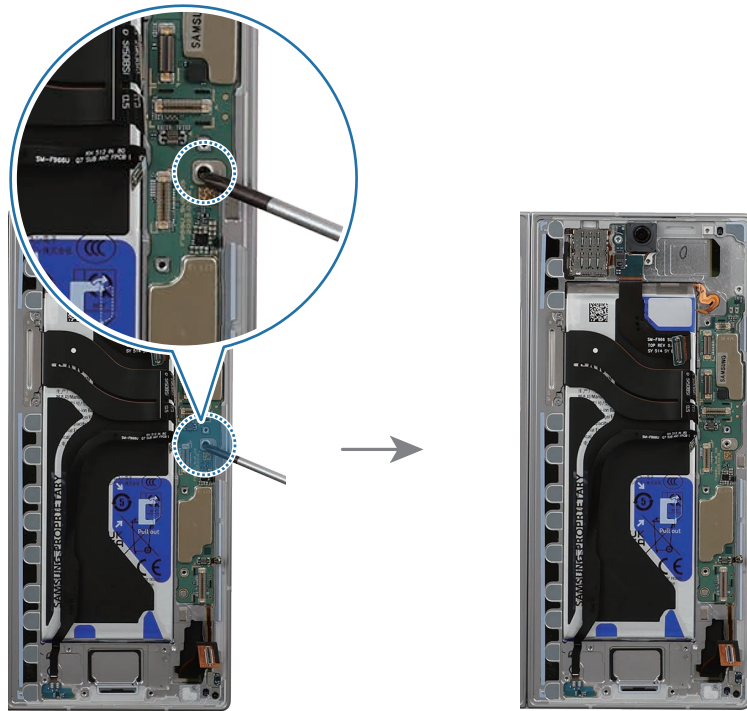
⚠ Be careful not to damage the near components.



14 Check and remove the screw on the sub board using a cross-head screwdriver.

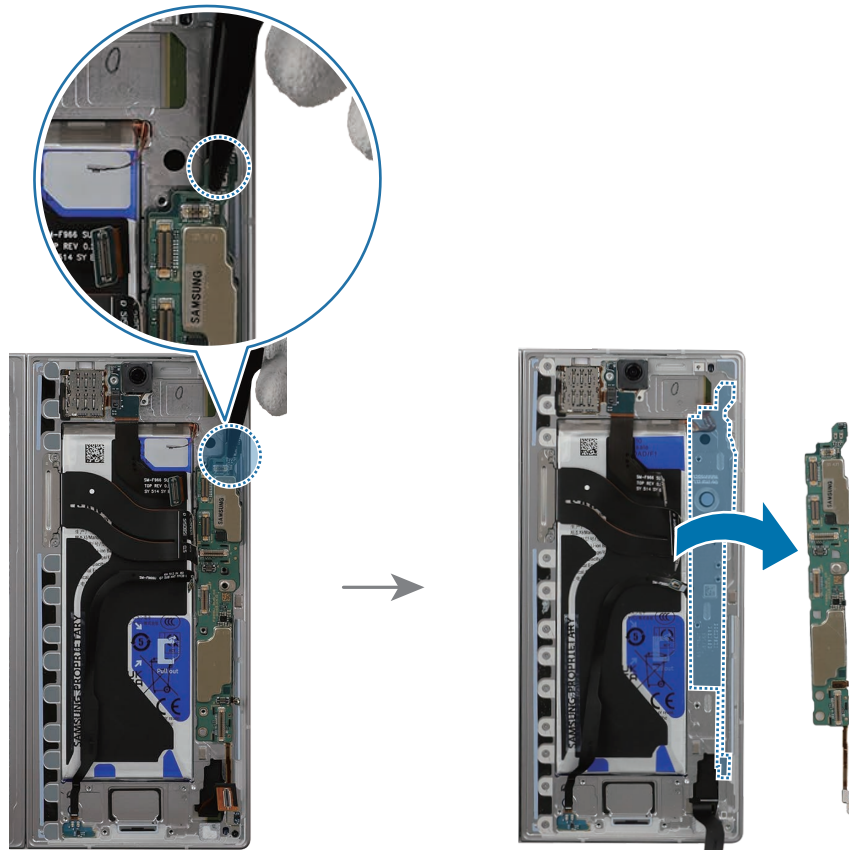
⚠ Be careful not to damage the near components.

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




15 Using the tweezers, remove the sub board and antenna cable.


- ⚠ Be careful not to damage the sub antenna cable.
- Be careful not to damage the near components.
- Be careful not to damage the flexible cables.



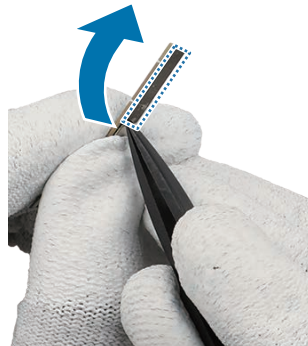
Reassembly

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

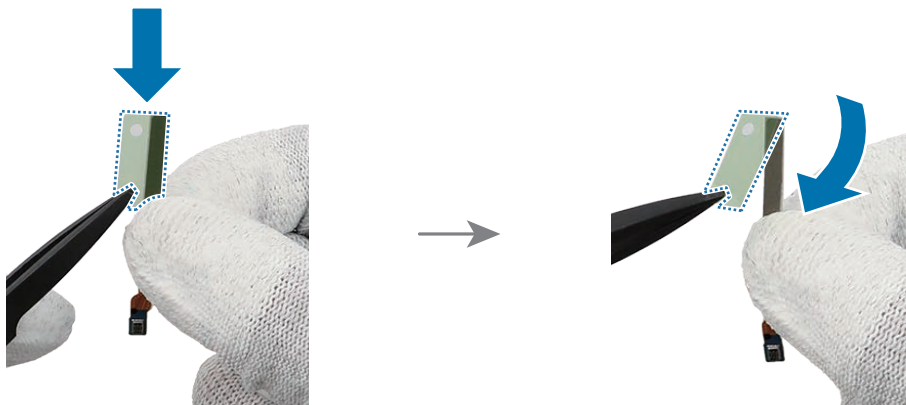
For the United States 5G devices, reassemble the 5G mmWave antenna first before you begin.

-  The 5G mmWave antenna is only supplied with United States devices.

- 1 Remove the remaining adhesive tape.



- 2 Attach the adhesive tape and release the release film with the tweezers.



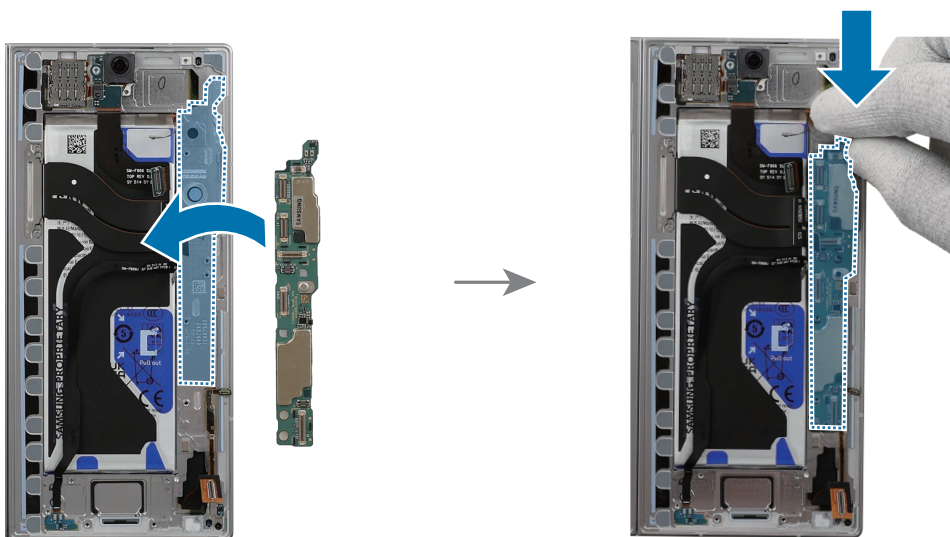
3 Using the tweezers, assemble the 5G mmWave antenna.

- ⚠ • Be careful not to damage the near components.
- Be careful not to damage the flexible cables.
- 📌 • The 5G mmWave antenna module and its connector are only available in United States devices.
- The cables and connectors may vary depending on the country, region, or specification.



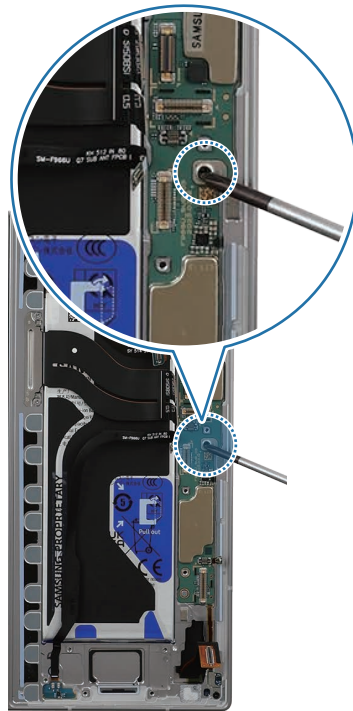
4 Using the tweezers, place the sub board on the new screen module.

- ⚠ • Be careful not to damage the near components.
- Be careful not to damage the flexible cables.



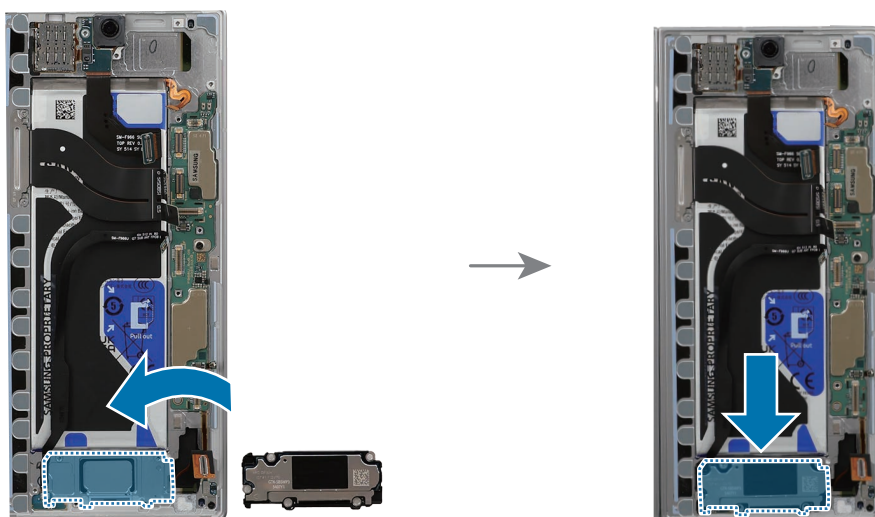
5 Fasten the screw 3578 (1 ea) on the sub board.

⚠ Be careful not to damage the near components.



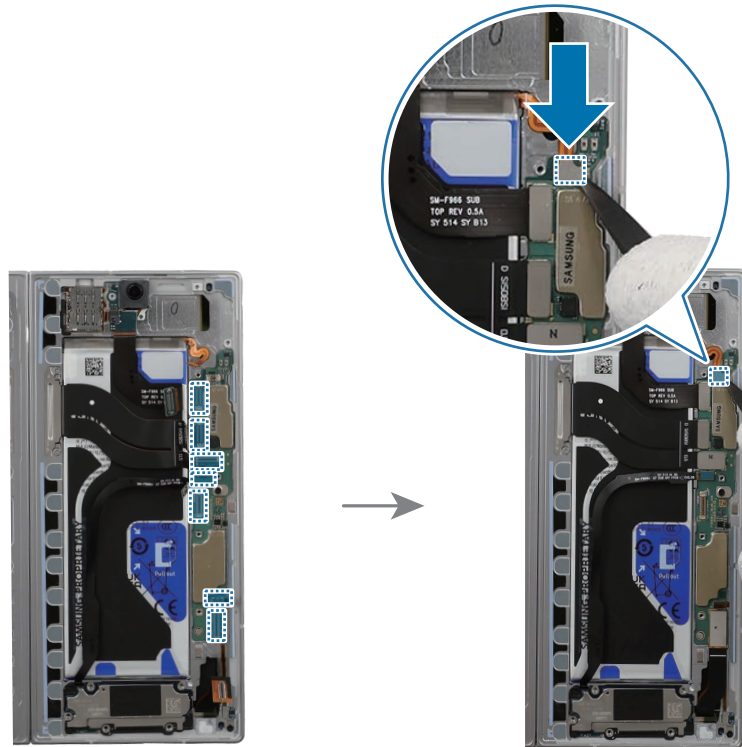
6 Using the tweezers or your fingers, assemble the bottom speaker module. Press down on its position until you hear a locking sound.

⚠ Be careful not to damage the near components.



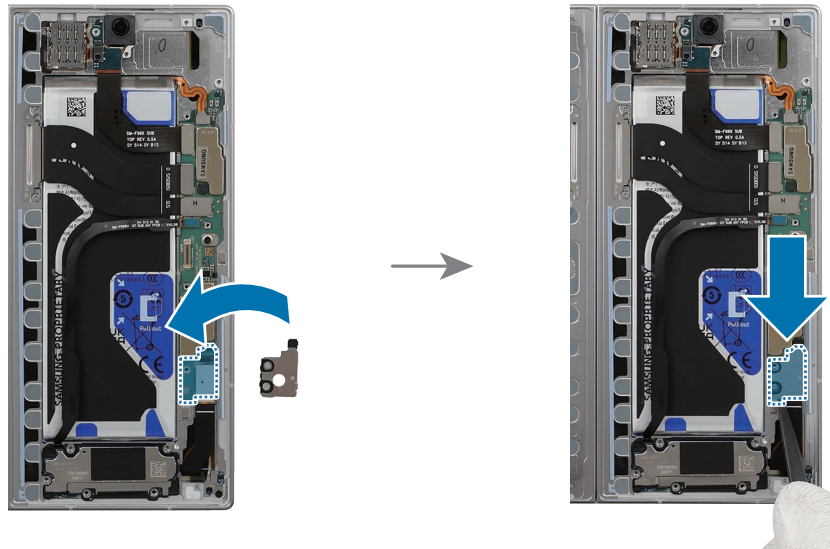
7 Using tweezers or your fingers, connect the 7 connectors on the sub board. Then, connect the battery connector.

- ⚠ Be careful not to damage the near components.
- Be careful not to damage the flexible cables.



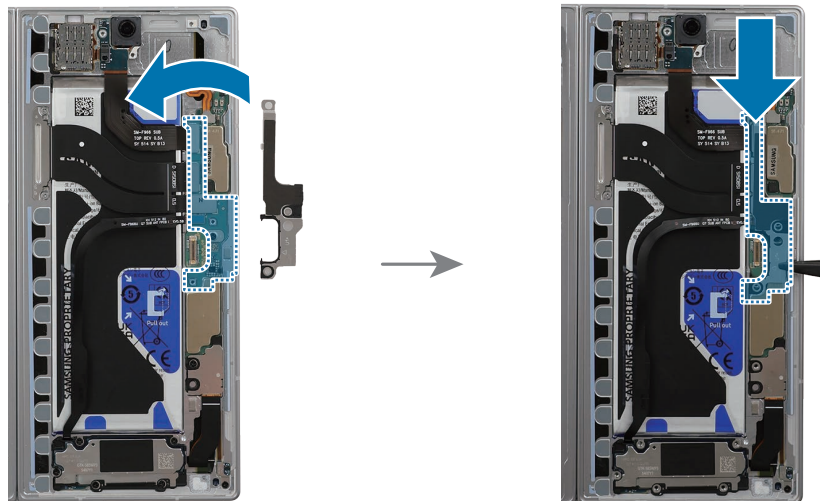
8 Place the sub rear connector cap with the tweezers or your fingers.

- ⚠ Be careful not to damage near components
- Be careful not to damage the flexible cables.
- Make sure not to lose the screw.



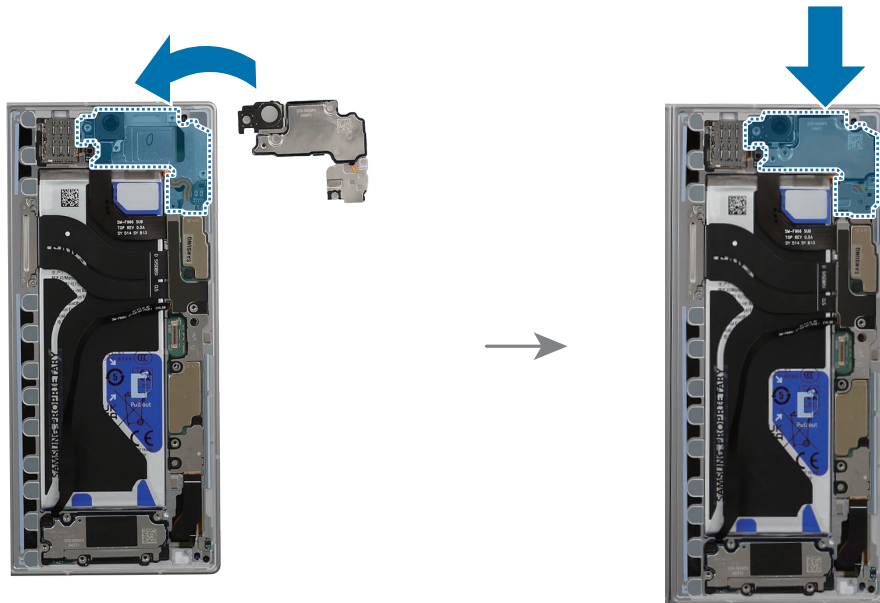
9 Using the tweezers or your fingers, place the sub rear mid indicated on the proper location.

- ⚠ Be careful not to damage the near components and connectors.



10 Using the tweezers or your fingers, assemble the top speaker module. Press down on it in its position until you hear a locking sound.

⚠ Be careful not to damage the near components.



11 Fasten the screw 3578 (14 ea) on the top and bottom using a cross-head screwdriver.

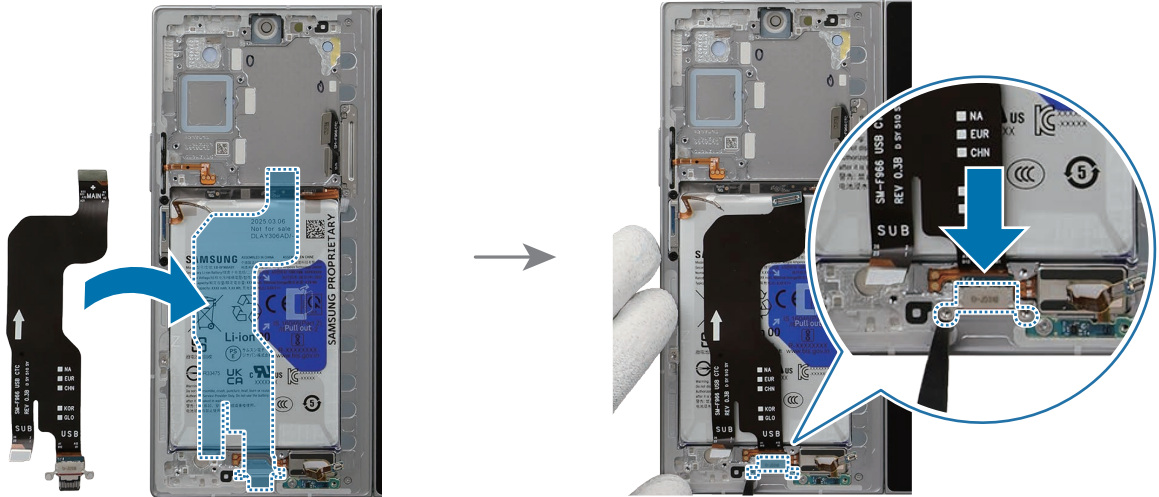
⚠ Be careful not to damage the near components.



12 Reassemble the [Cover Screen](#).

13 Place the charging port in the right location and insert the C-type to the charging port.

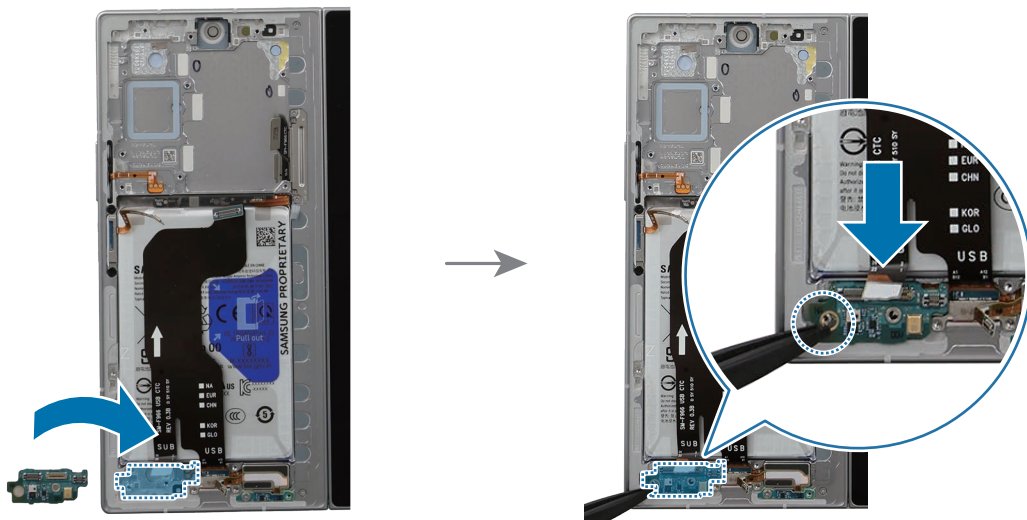
⚠ Be careful not to damage the near components.



14 Using the tweezers, place the bottom board.

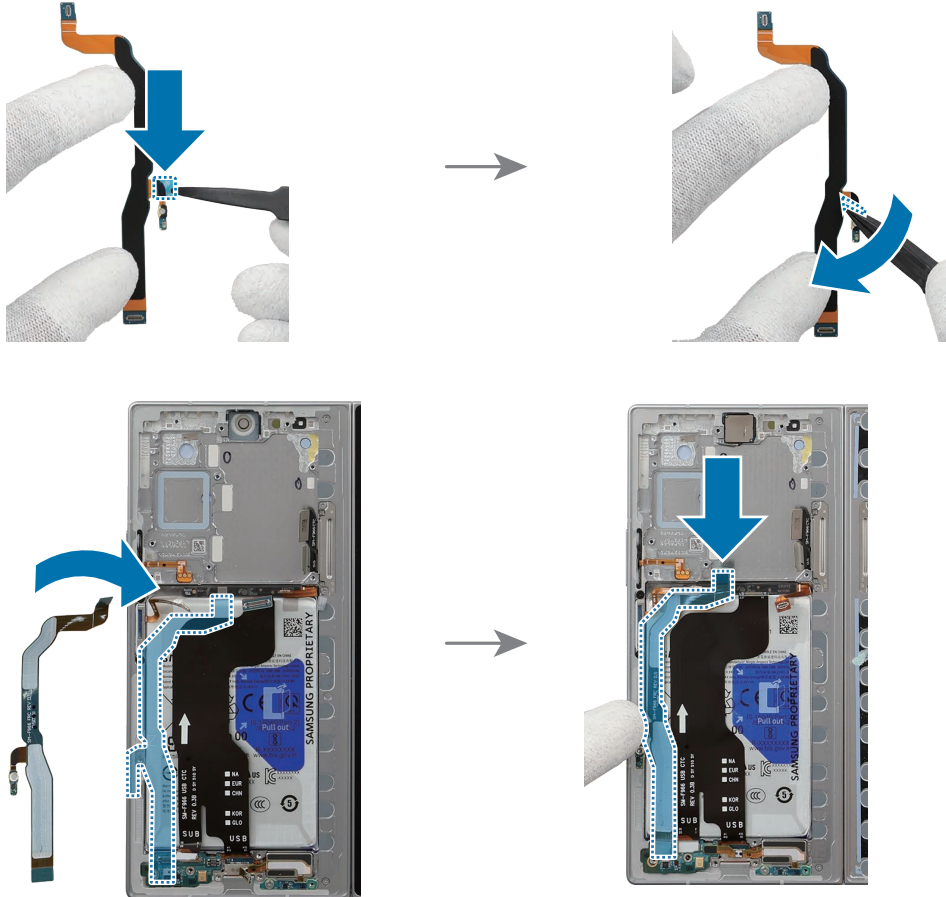
⚠ Be careful not to damage the battery.

- ⚠ Be careful not to damage the cable.
- Be careful not to damage the bottom board and near components.



15 Attach the adhesive tape of FRC FPCB on the device with the tweezers or your fingers. Then, remove the release film from the device.

- ⚠ • Be careful not to damage the near components.
- Be careful not to damage the flexible parts and connectors.
- As the marked part is weak, be careful not to damage it.



16 Fasten the screw 3593 (4 ea) pointed with a cross-head screwdriver.

⚠ Be careful not to damage the battery.

- ⚠ • Be careful not to damage the cables.
- Be careful not to damage near components on the board.




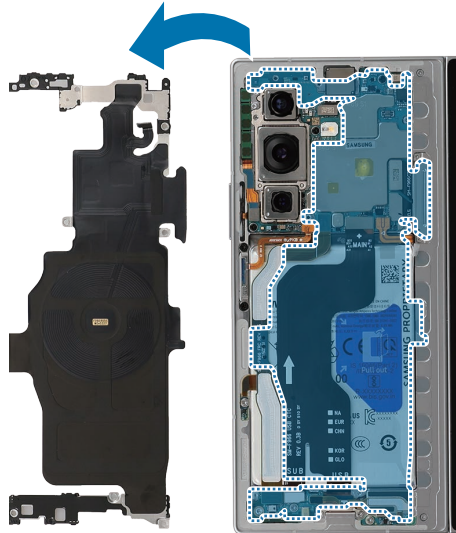
📦 Reassemble the [Front Camera](#), [Back Cover](#), and [Cover Screen](#) to complete assembly.

Battery

 The 2 batteries should always be replaced at the same time.

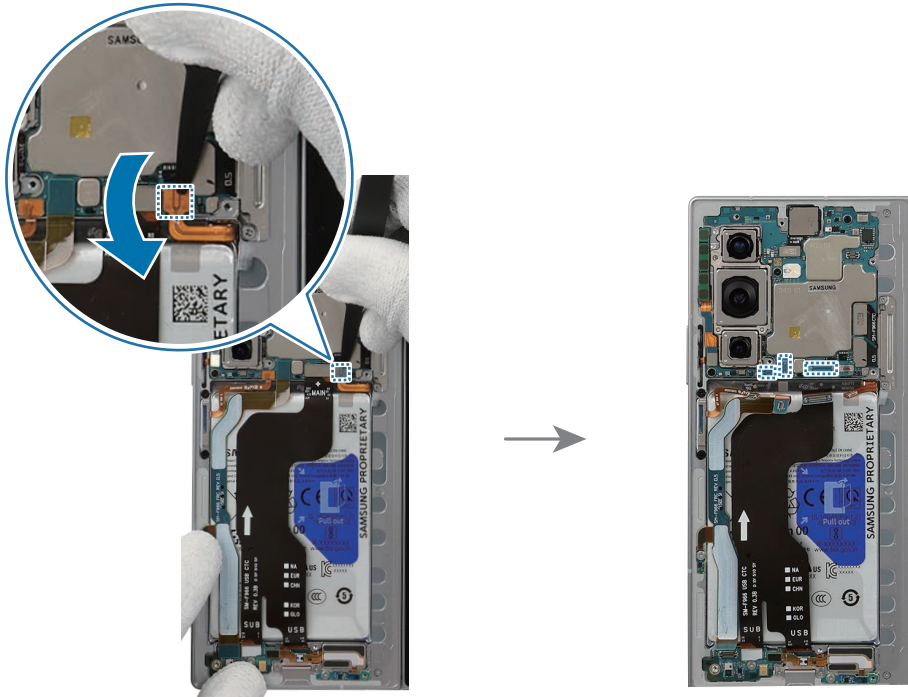
Disassembly

-  Remove the [SIM Card Tray](#), [Back Cover](#), and [Cover Screen](#) first before you begin.
- Refer to [Rear Camera](#) to remove the wireless charging module.



1 Using the tweezers, disconnect the battery connector first. Then, disconnect the 3 connectors (fingerprint key connector, FRC FPCB connector, charging port connector).

- ⚠ • Be careful not to damage the near components.
- Be careful not to damage the flexible connectors.



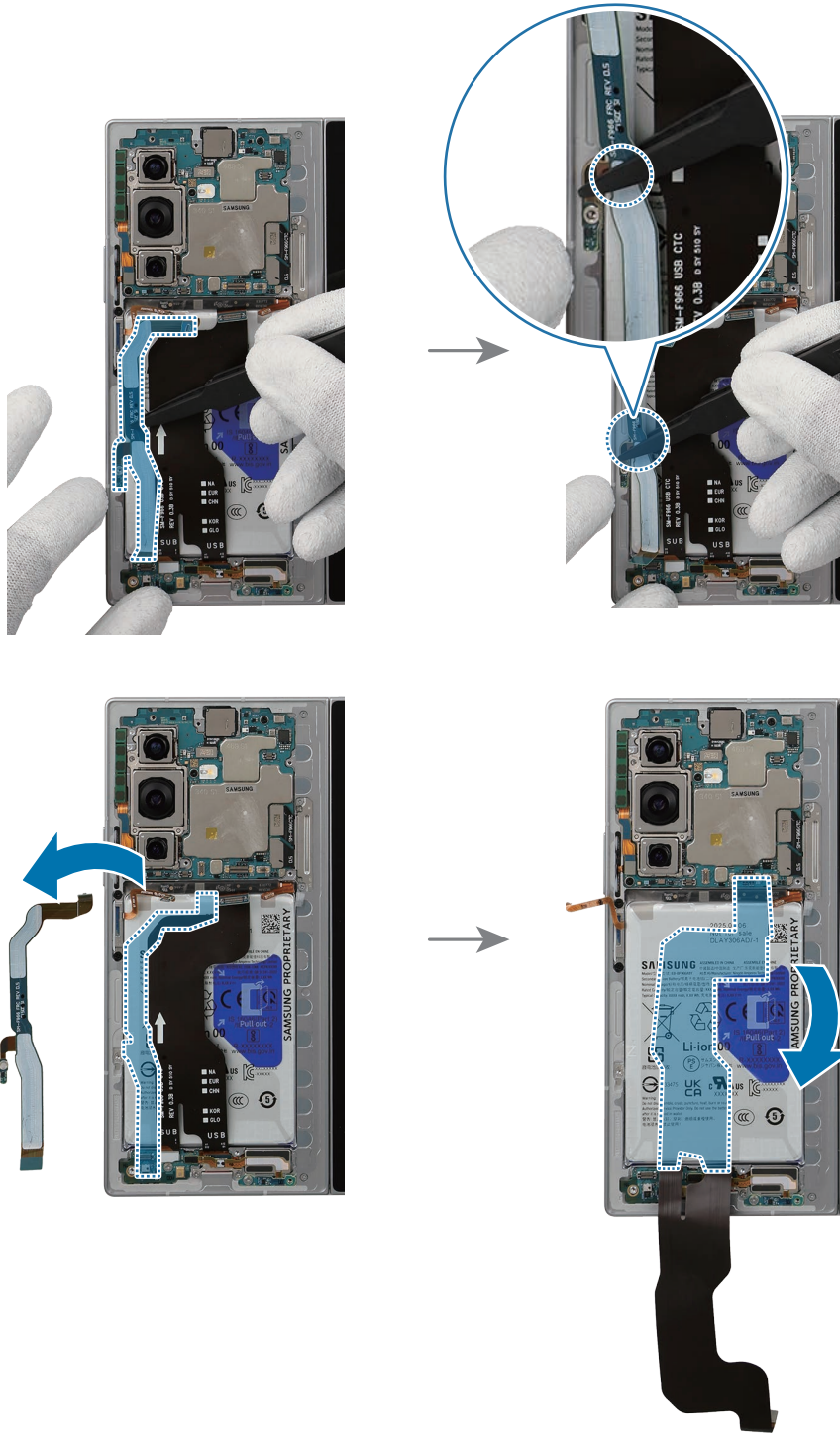
2 Check and remove the screw of FRC FPCB using a cross-head screwdriver.

- ⚠ • Be careful not to damage the near components.
- Be careful not to damage the flexible parts and connectors.



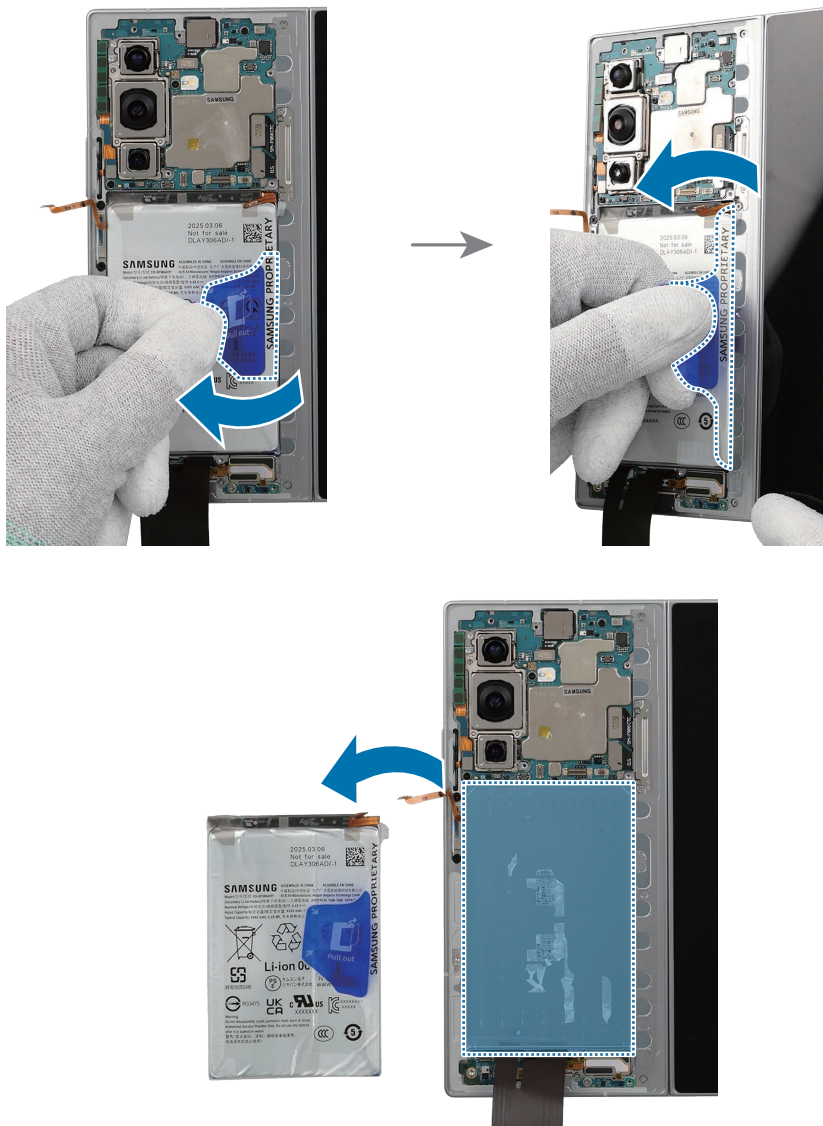
3 Using the tweezers, remove the FRC FPCB.

- ⚠ • Be careful not to damage the near components.
- Be careful not to damage the flexible parts and connectors.
- As the marked part is weak, be careful not to damage it.



4 Grab the tape handle attached to right side of the main battery with your fingers and pull it up carefully. Slowly lift up the main battery from the device and remove it completely.

- ❗ • As the adhesive securing the battery is very strong, remove the battery slowly and carefully.
- The FPCB cables and connectors have to be positioned outside so as not to interfere when disassembling the battery.
- Be careful not to damage the near components and connectors.

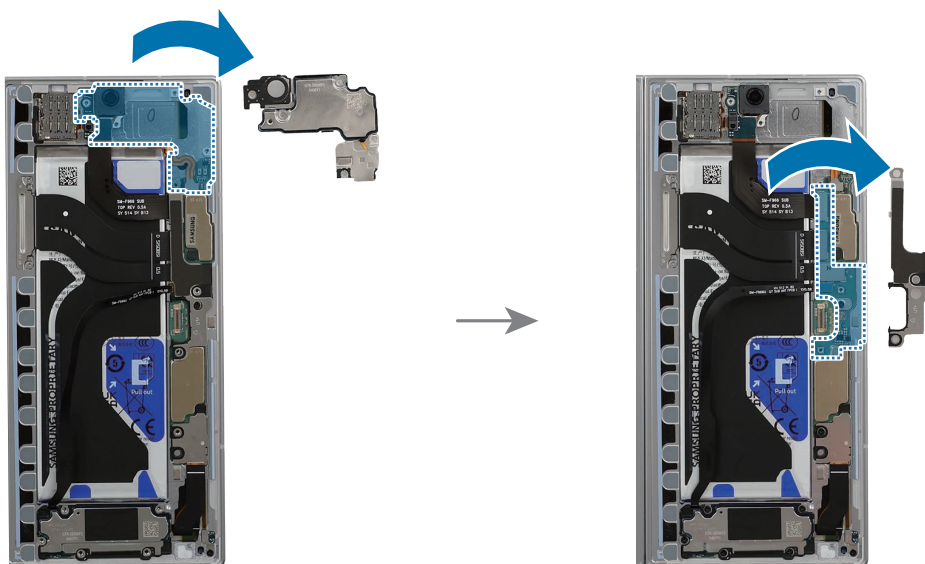


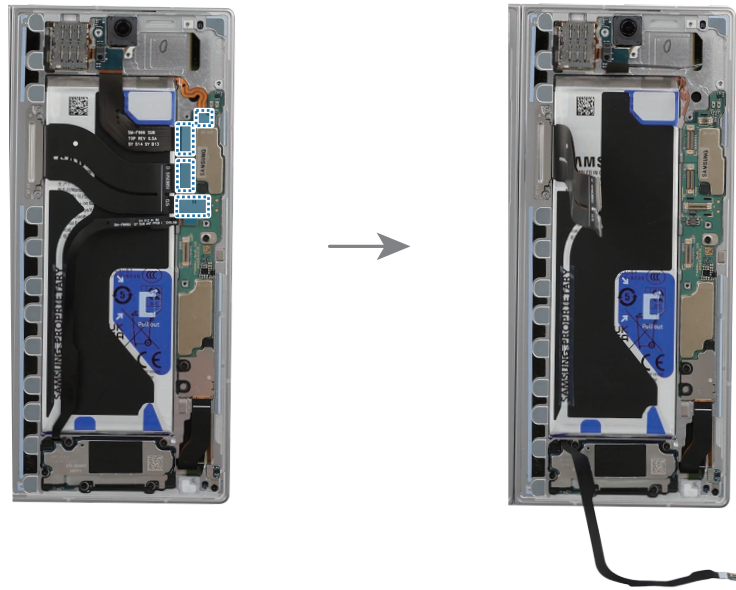
5 Check and remove the 7 screws pointed with a cross-head screwdriver.



6 Check for the disassembly steps of the [Cover Camera](#) and remove the rear mid part. Using the tweezers, disconnect the battery connector first. Then, disconnect the 3 connectors indicated.

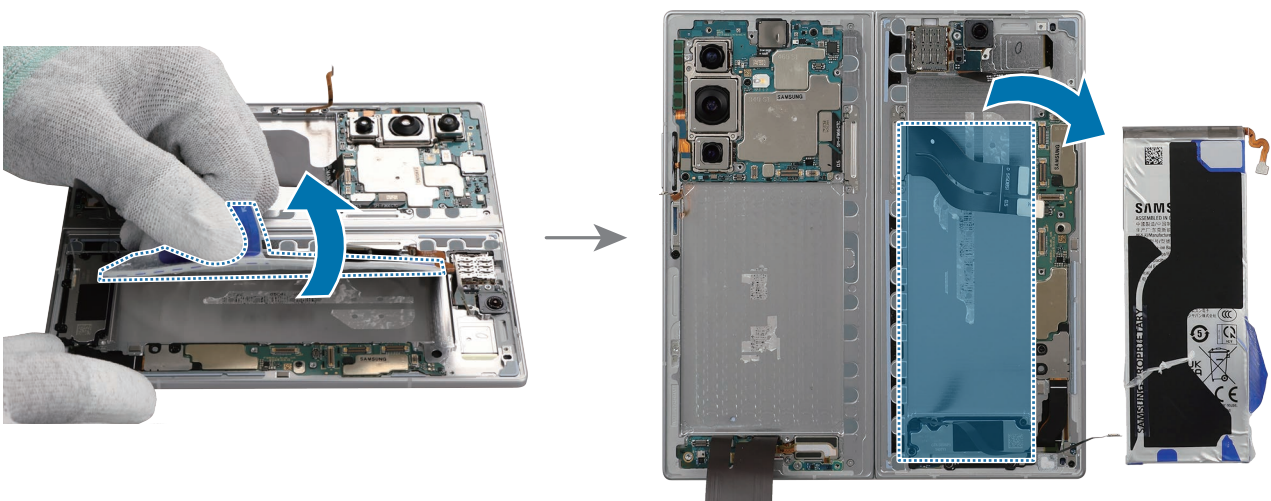
- ⚠ • The FPCB cables and connectors have to be positioned outside so as not to interfere when disassembling the battery.
- Be careful not to damage the near components and connectors.





7 Grab the tape handle attached to left side of the sub battery with your fingers and pull it up carefully. Slowly lift up the sub battery from the device and remove it completely.

- ⚠ • As the adhesive securing the battery is very strong, remove the battery slowly and carefully.
- The FPCB cables and connectors have to be positioned outside so as not to interfere when disassembling the battery.
- Be careful not to damage the near components and connectors.
- Be careful not to damage the flexible parts and connectors.

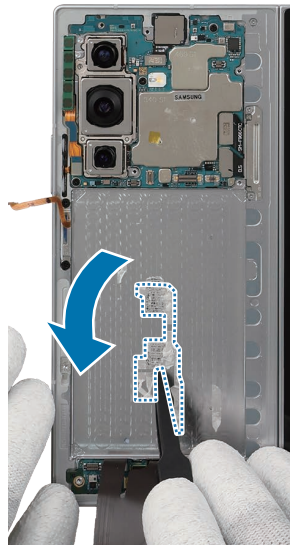


Reassembly


- ⚠ • The 2 batteries should always be replaced at the same time.
- Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

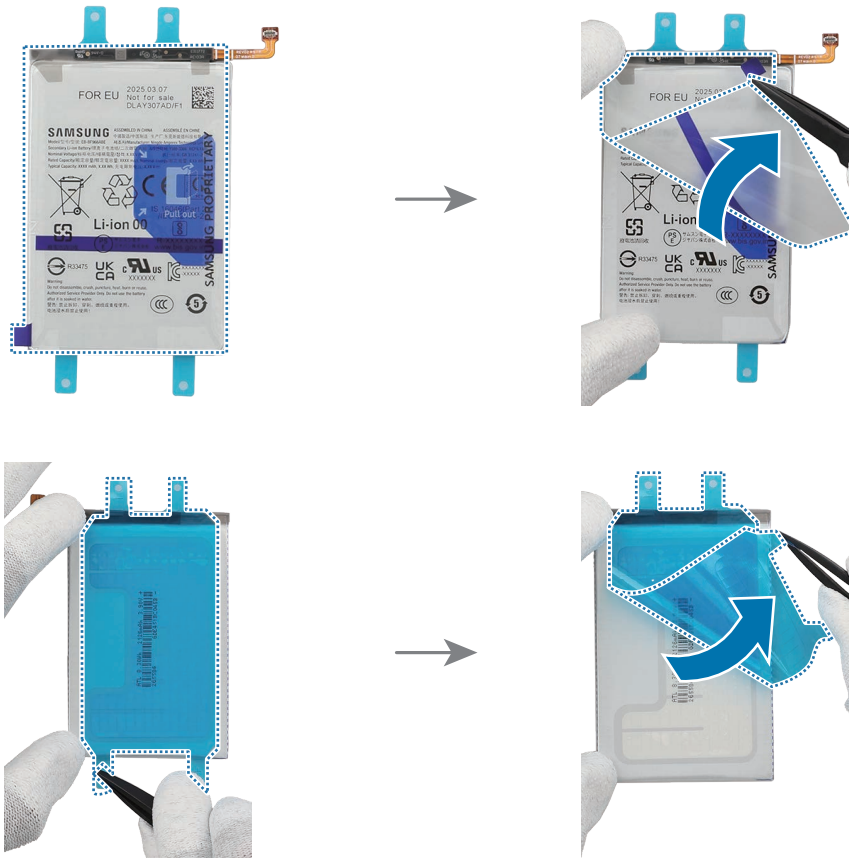
1 Remove the remaining battery adhesive from the device.

- ⚠ Be careful not to damage the components on the main board.

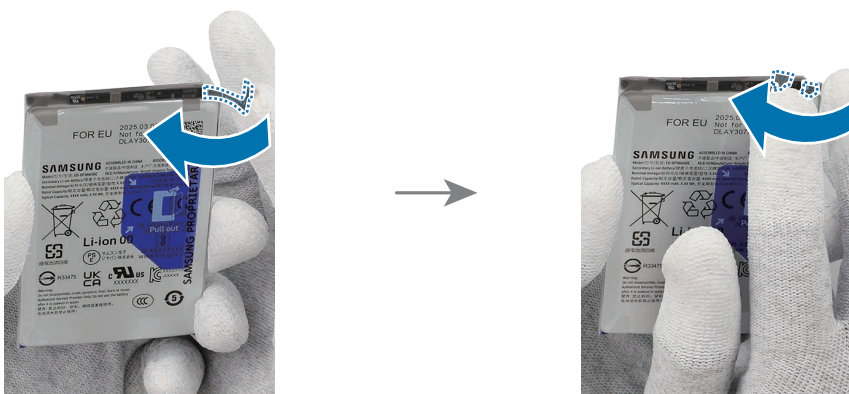


- Using the tweezers or your fingers, carefully remove the release films attached to both sides of the main battery.

 Be careful not to damage the battery.



- Fold the new battery cable to the front battery side following the black circuit at the upper side of battery. Then, attach the new battery on the battery location with your fingers smoothly like the picture below.



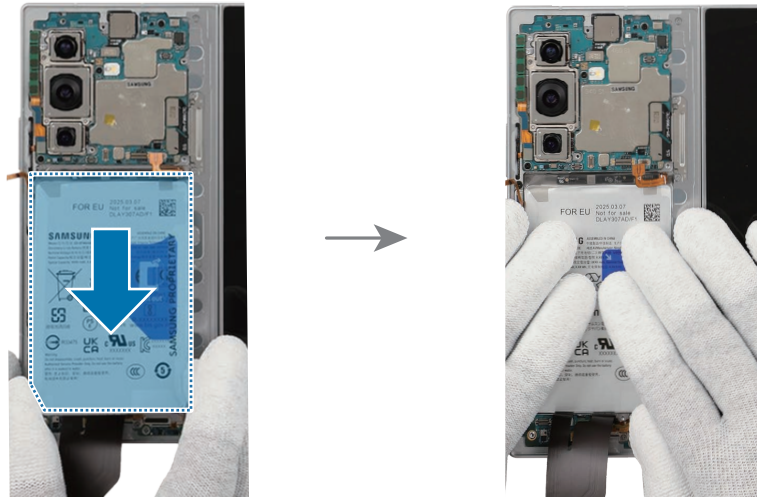
4 Press the battery with your fingers softly so that the battery can be attached well.



- Be careful not to bend the battery.
- Be careful not to damage the battery.



Be careful not to damage the near components.

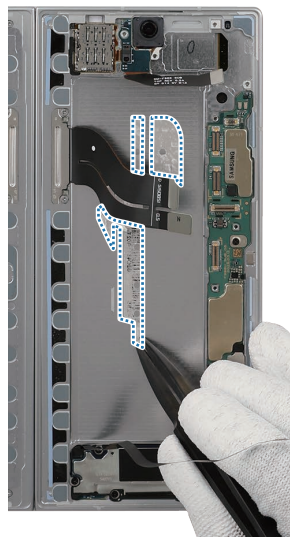


5 Check for the reassembly steps of the [Cover Screen](#) before assembling the sub battery.

6 Remove the remaining battery adhesive from the device.



Be careful not to damage the components on the main board.



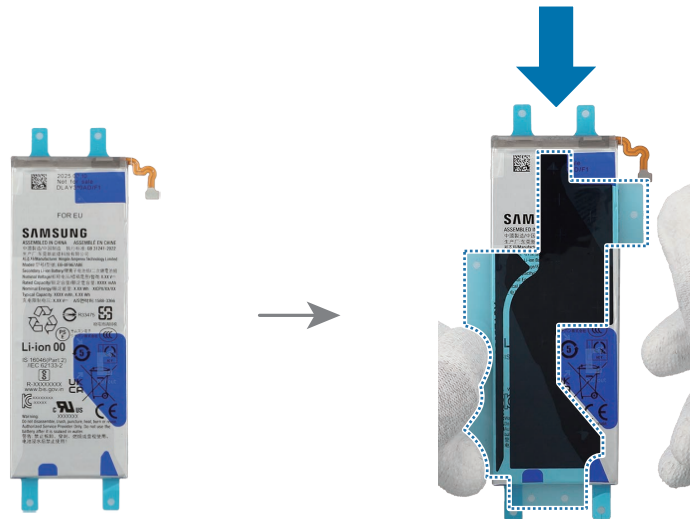
7 Attach the sponge sub battery tape to the front side on the battery and remove the release film on the front side of the new battery using the tweezers or your fingers.



Be careful not to damage the battery.



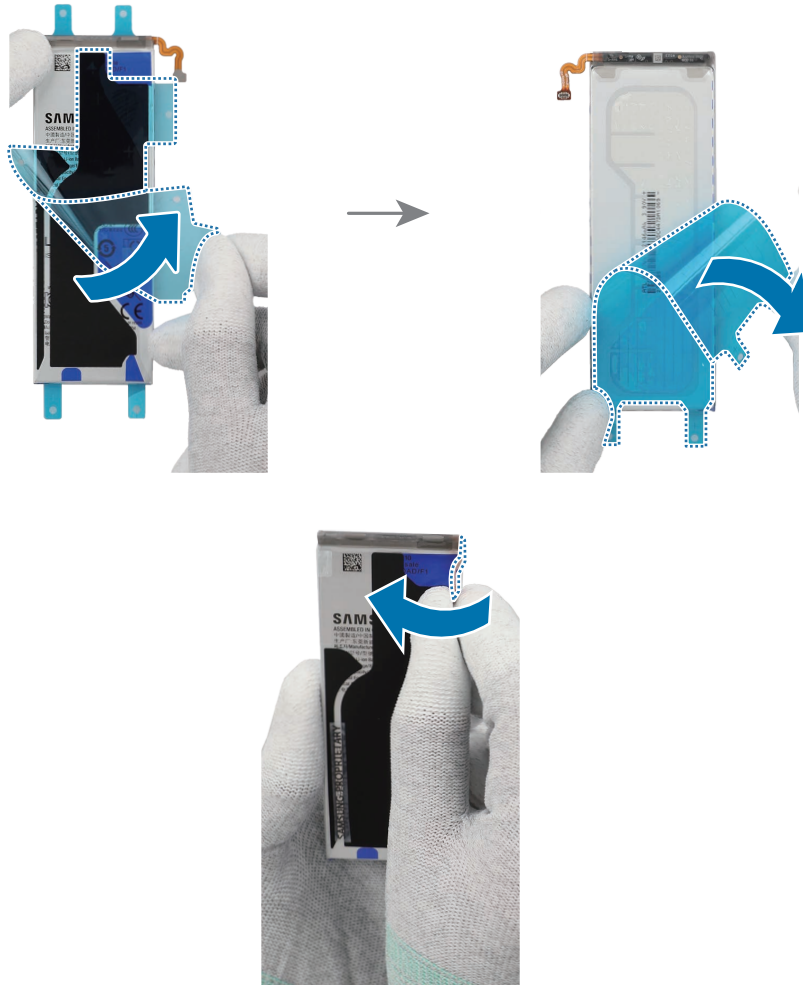
- The FPCB cables and connectors have to be positioned outside so as not to interfere when assembling the battery.
- Be careful not to damage the near components.



8 Remove the release film with your fingers. Fold the battery connector cable of the new battery to the upper battery circuit.

⚠ Be careful not to damage the battery.

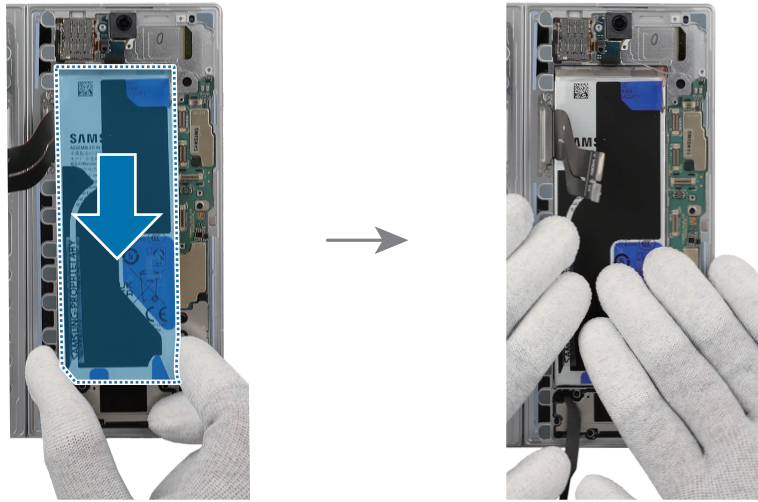
⚠ Be careful not to damage the near components.



9 Place the new battery into the battery location. Press the battery with your fingers softly so that the battery can be attached well.

⚠ Be careful not to damage the battery.

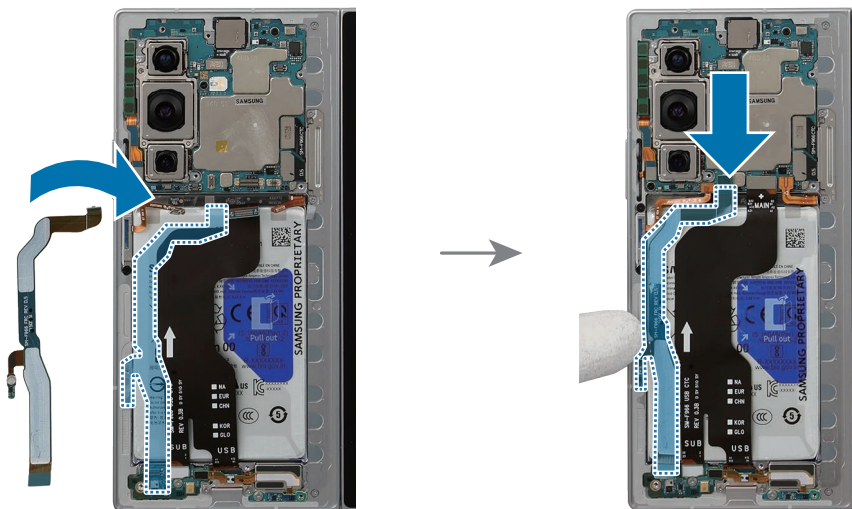
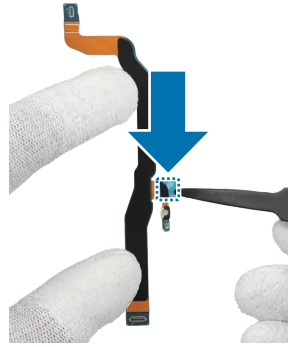
- ⚠ • The FPCB cables and connectors have to be positioned outside so as not to interfere when assembling the battery.
- Be careful not to damage the near components.



10 Check for the steps of the [Battery Press](#). You can further press the fully assembled battery using the appropriate tool.

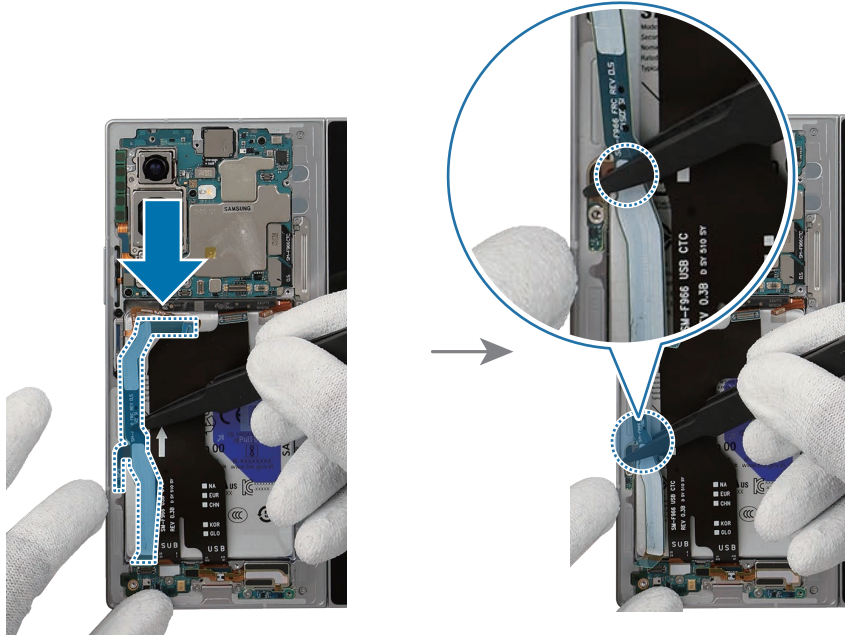
11 Attach the adhesive tape of the FRC FPCB on the device with the tweezers or your fingers. Remove the release film from the device.

- ⚠ • Be careful not to damage the near components.
- Be careful not to damage the flexible parts and connectors.
- As the marked part is weak, be careful not to damage it.



12 Align the FRC FPCB on the attached tape. Attach the FRC FPCB on the device.

- ⚠ • Be careful not to damage the near components.
- Be careful not to damage the flexible parts and connectors.



13 Fasten the screw 3593 (1 ea), which was removed to separate the FRC FPCB, on the location where the screw was on the device.

- ⚠ • Be careful not to damage the near components.
- Be careful not to damage the flexible parts and connectors.



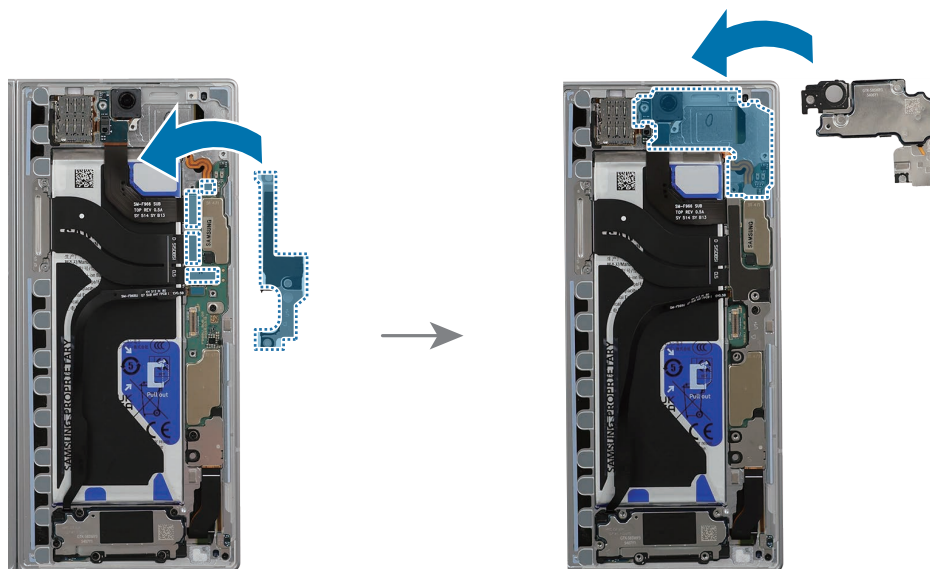
14 Using your fingers, connect the 3 connectors (fingerprint key connector, FRC FPCB connector, charging port connector). Then, connect the battery connector.

- ⚠ • Be careful not to damage the near components.
- Be careful not to damage the flexible parts and connectors.



15 Check for the reassembly steps of the [Cover Camera](#) and assemble the rear mid part.





- ⚠ • The FPCB cables and connectors have to be positioned outside so as not to interfere when assembling the battery.
- Be careful not to damage the near components.



📁 Reassemble the [Top Speaker](#), [Cover Screen](#), [Back Cover](#), and [SIM Card Tray](#) to complete assembly.

Hinge Assy

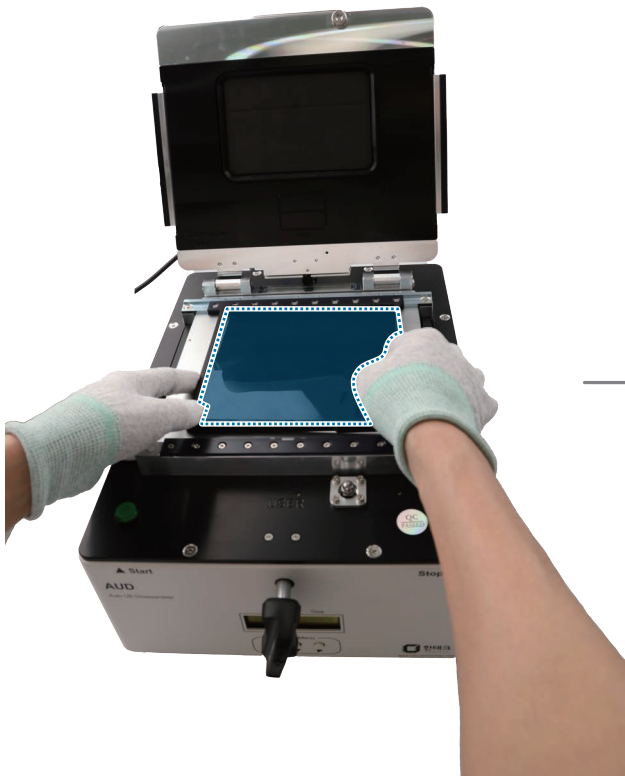
Disassembly

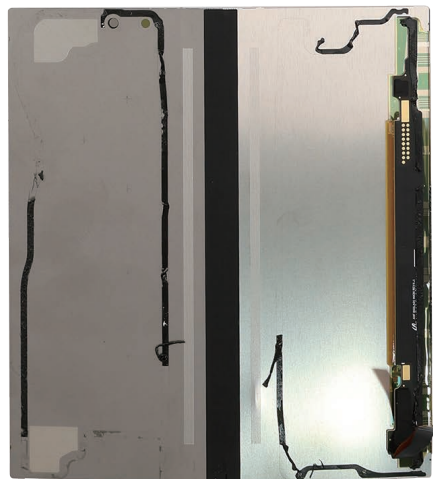
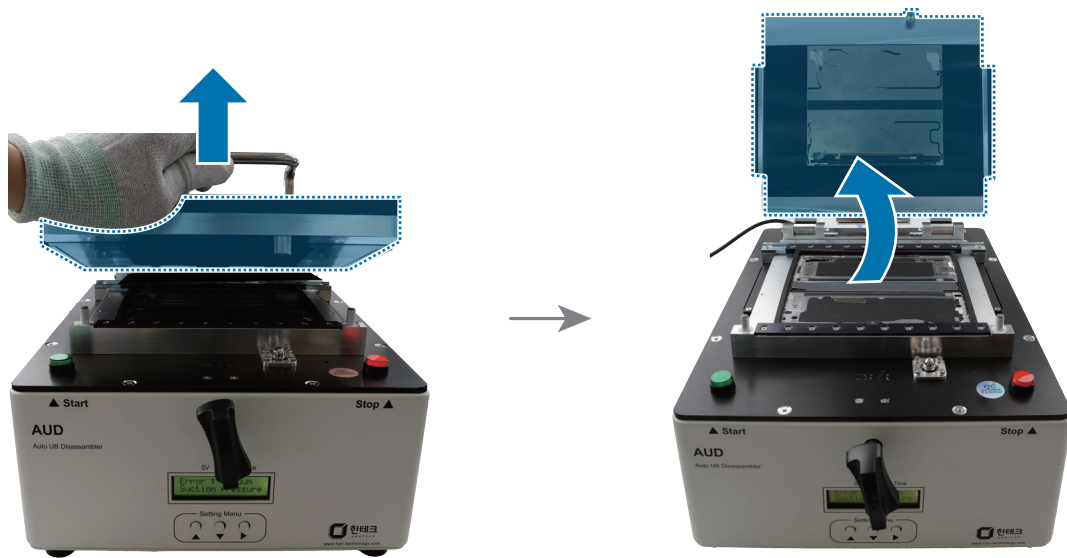
-  The hinge should be replaced only by technicians with the knowledge and experience to repair electronic devices. If the hinge is faulty, contact the specialised repair shop for further action.
 - 
 - Refer to removing the deco and P-cap in [Main Screen](#).
 - Refer to removing the main board in [Rear Camera](#).
- 1 Set up the main screen removal fixture and verify the power is set to match the rated input of the power supply and verify the power cable is in good condition, not frayed or torn. Plug the fixture into wall power using the approved power code for region of use. Place and align the dummy frame fitly on the device. Rotate the handle so that the device can be placed on the fixture and adjust the mounting part according to the length of the device. Put the device on the fixture with the main screen facing up and rotate the handle so that the device is fully mounted. Close the cover of the fixture and push the **Start** button on the front of the unit, and then check the green LCD is turned on. The main screen is slowly separated as the cover rises automatically. When the main screen is completely disassembled, press the **Stop** button twice and remove the separated screen and the metal frame from the fixture.
- 
 - Keep your hands out of main fixture to avoid mechanical pinching, electrical interconnects and hot surfaces.
 - Follow the main screen removal fixture's instructions.
 - Any and all liquids, hazardous, flammable or not, should be kept at a distance.
 -  You need to reuse the separated main screen. Be careful not to damage the screen.



- It is recommended to refer to the manual for the AUD tool.
- This fixture is only available to use when purchased for self repair service. Availability may vary depending on the country and is currently available only in limited countries.
- The fixture is designed for table top use and power cord must be attached before powering on.







2 Using your fingers, remove the CFRP.

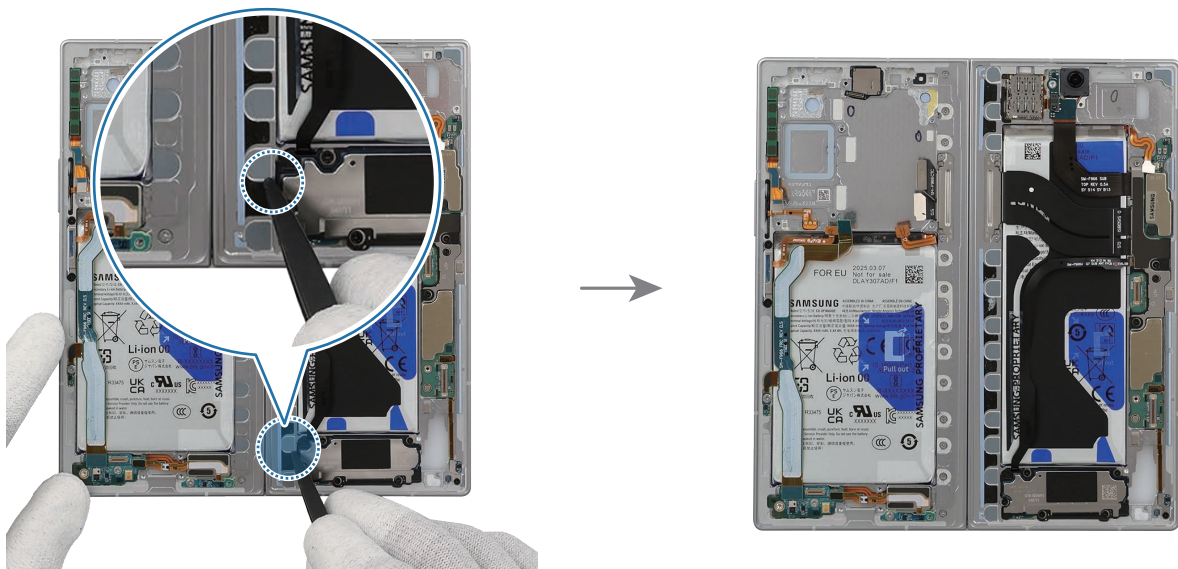
⚠ Be careful not to damage the near components.



3 Remove the adhesive tapes covered the screws with the tweezers.

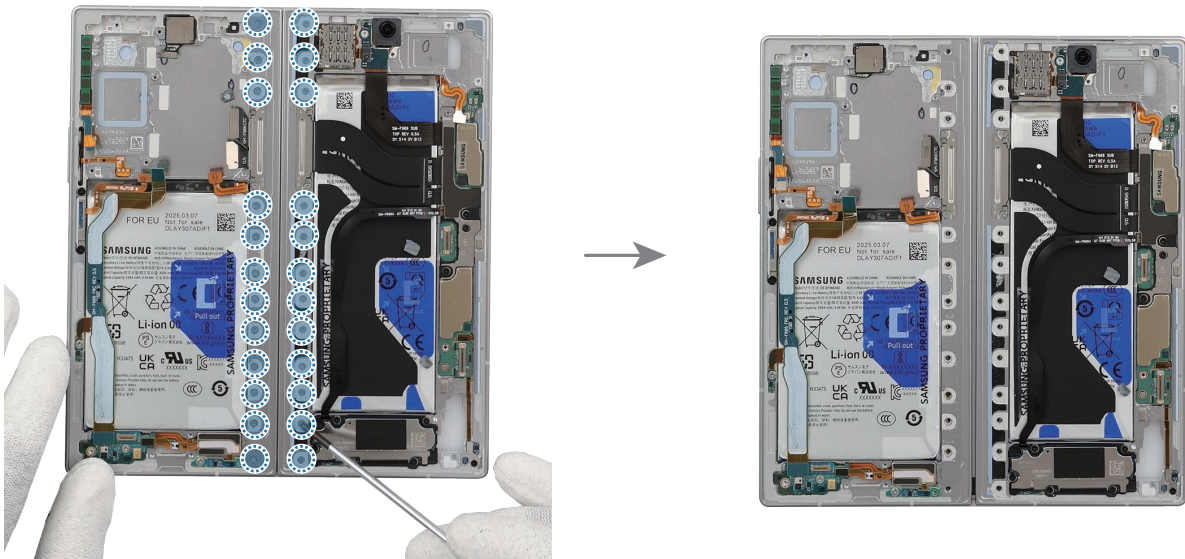
⚠ Be careful not to damage the batteries.

- ⚠ Be careful not to damage near components.
- Be careful not to damage the flexible cables.

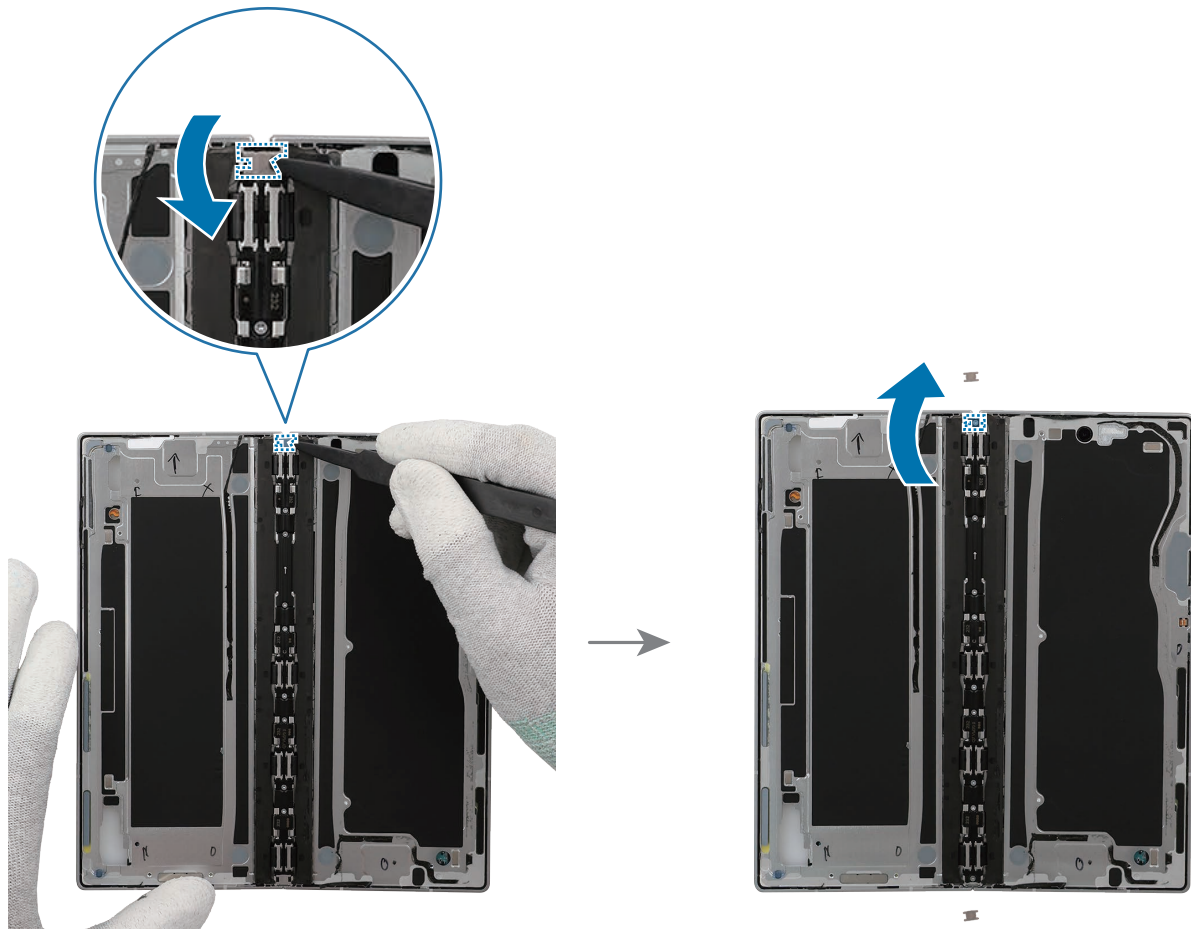


4 Check and remove total of 24 screws, including the 12 screws on the left side and 12 screws on the right side.

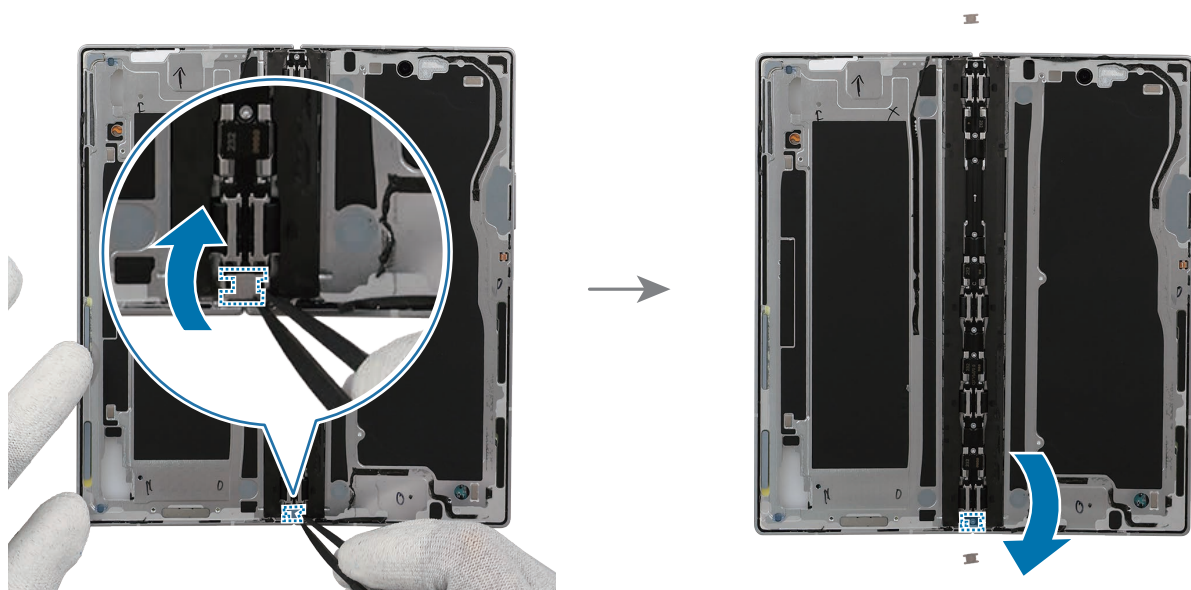
- ⚠ Be careful not to damage the batteries.
- ⚠
 - Be careful not to damage the near components.
 - Be careful not to damage the flexible cables.
- ✓ Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



5 Remove the housing cap of the top with the tweezers.



6 Remove the housing cap of the bottom with the tweezers.

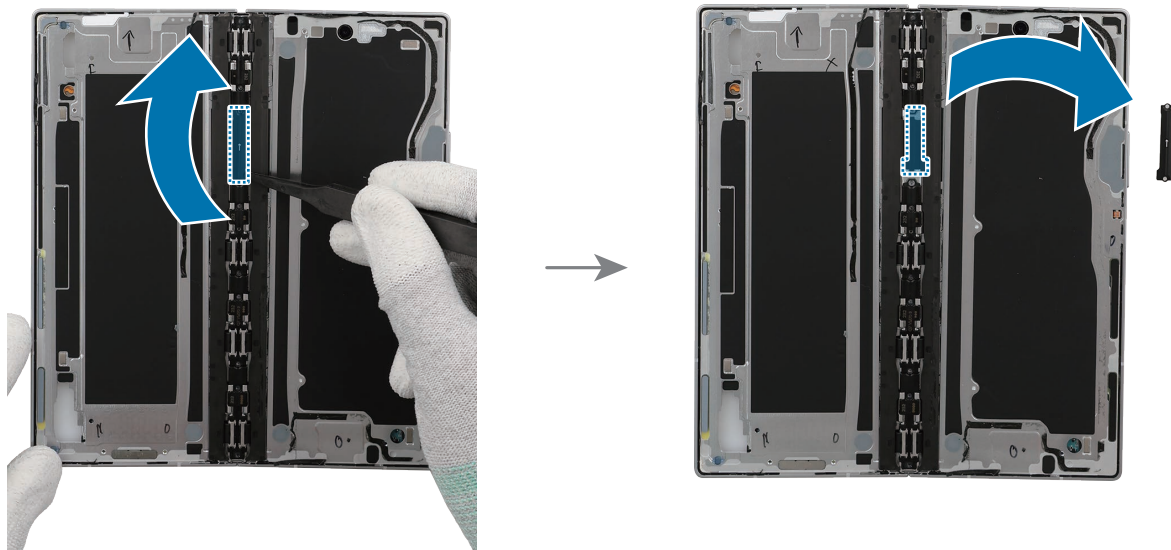


7 Check and remove the 10 screws using a cross-head screwdriver.

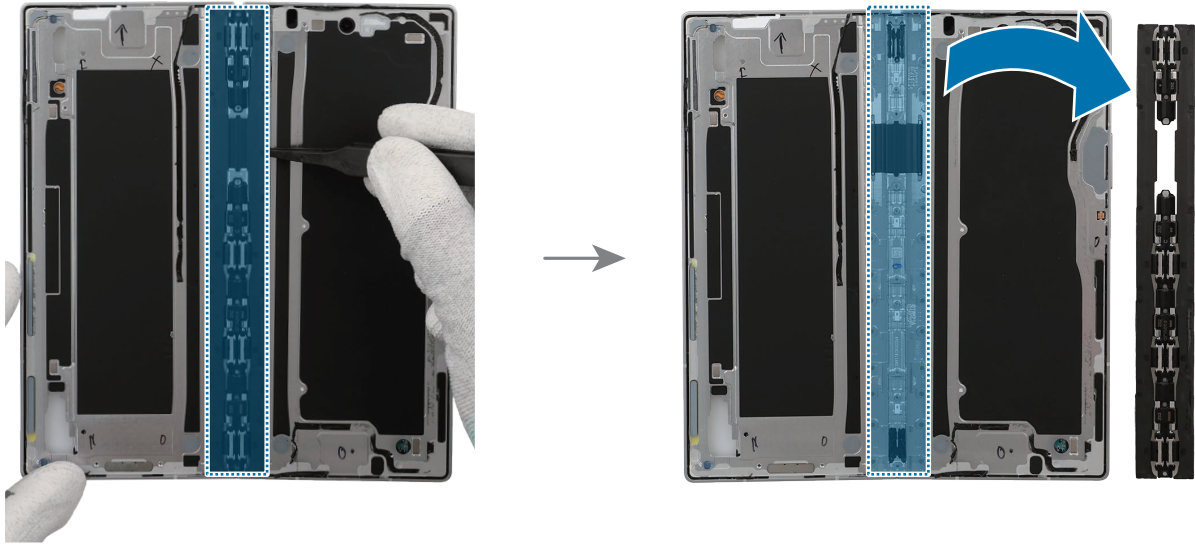
- ✔ Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.




8 Remove the housing centre bar of the hinge with the tweezers.




9 Remove the hinge module with the tweezers.




Reassembly

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

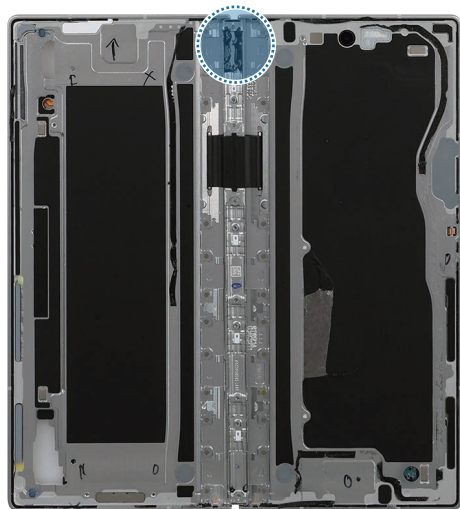
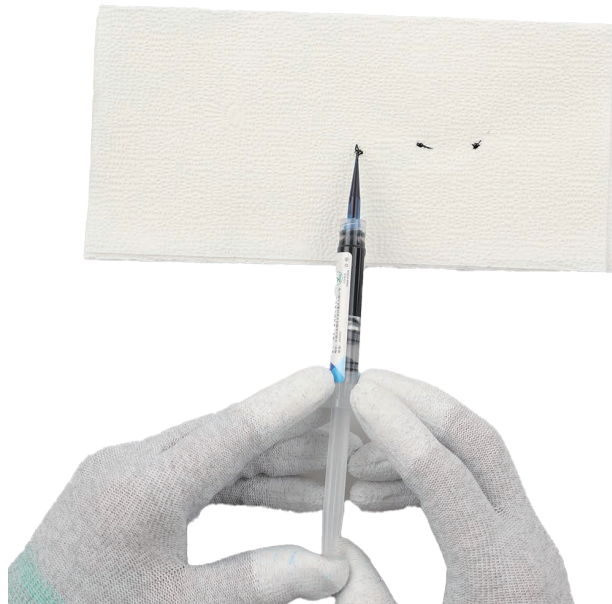
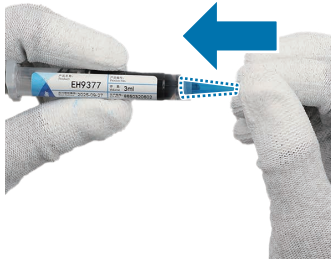
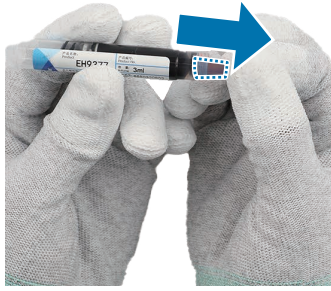
1 Apply the adhesive (FULLER EH9377) on the upper and lower side to attach the new hinge.

 As it could be harm for the body, use the adhesive carefully.

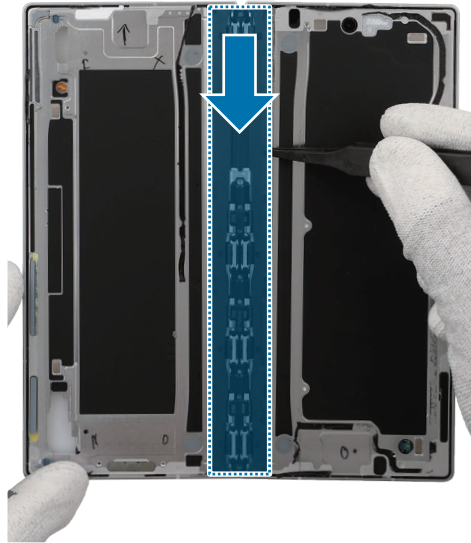
-  • If you have already used this adhesive for other assembly or if the adhesive on the needle part is hardened, you can replace only the needle with a new one and continue to use it.
- The actual adhesive, piston, and needle may be different from the image.



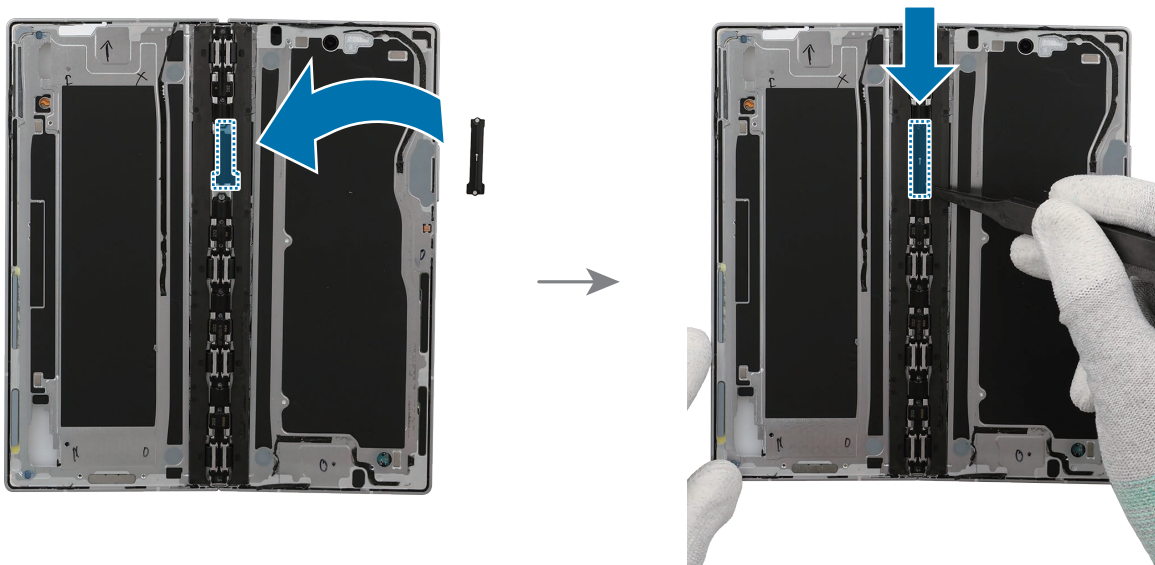
Disassembly and Assembly



- 2 Place the new hinge on the location where the adhesive applied.



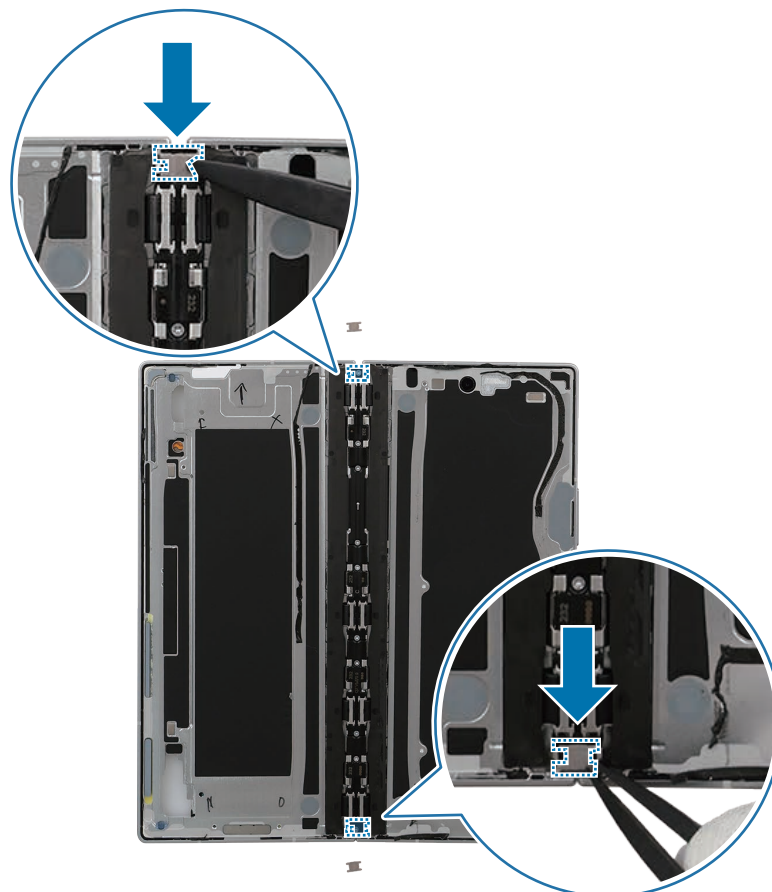
- 3 Place the hinge centre bar on the location where it was.



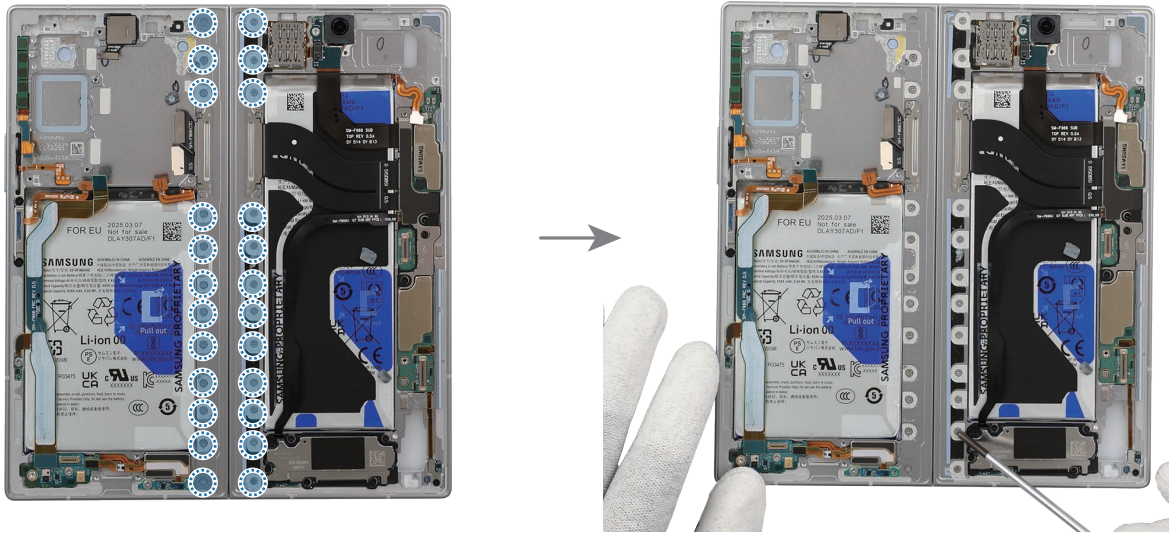
- 4 Fasten the 10 screws on the hinge using a cross-head screwdriver.



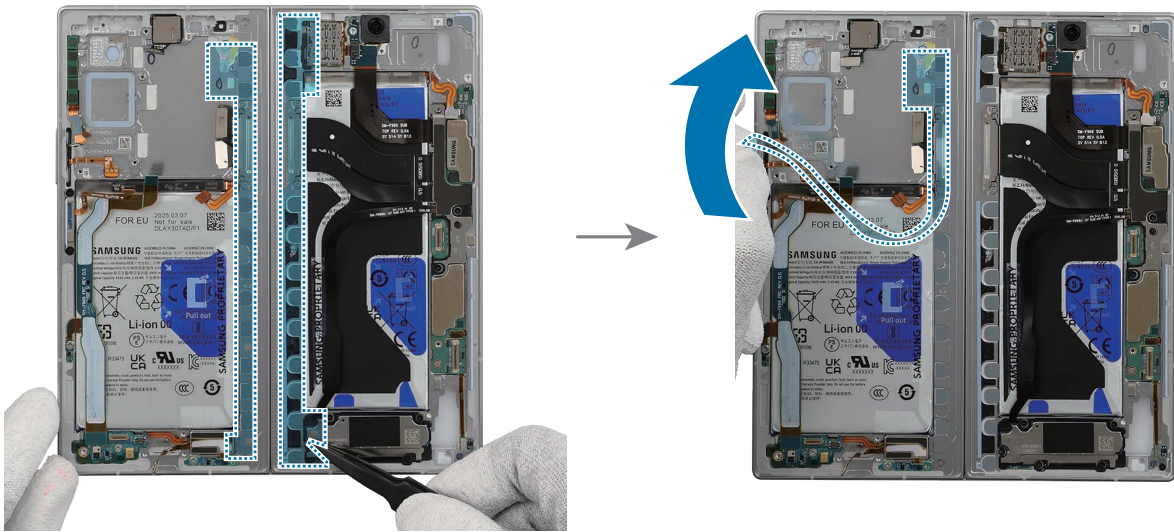
- 5 Using the tweezers, assemble the screw cap on the upper and lower side of the hinge.



- 6 Turn the device upside down. Fasten the 24 hinge screw on the device using a cross-head screwdriver.

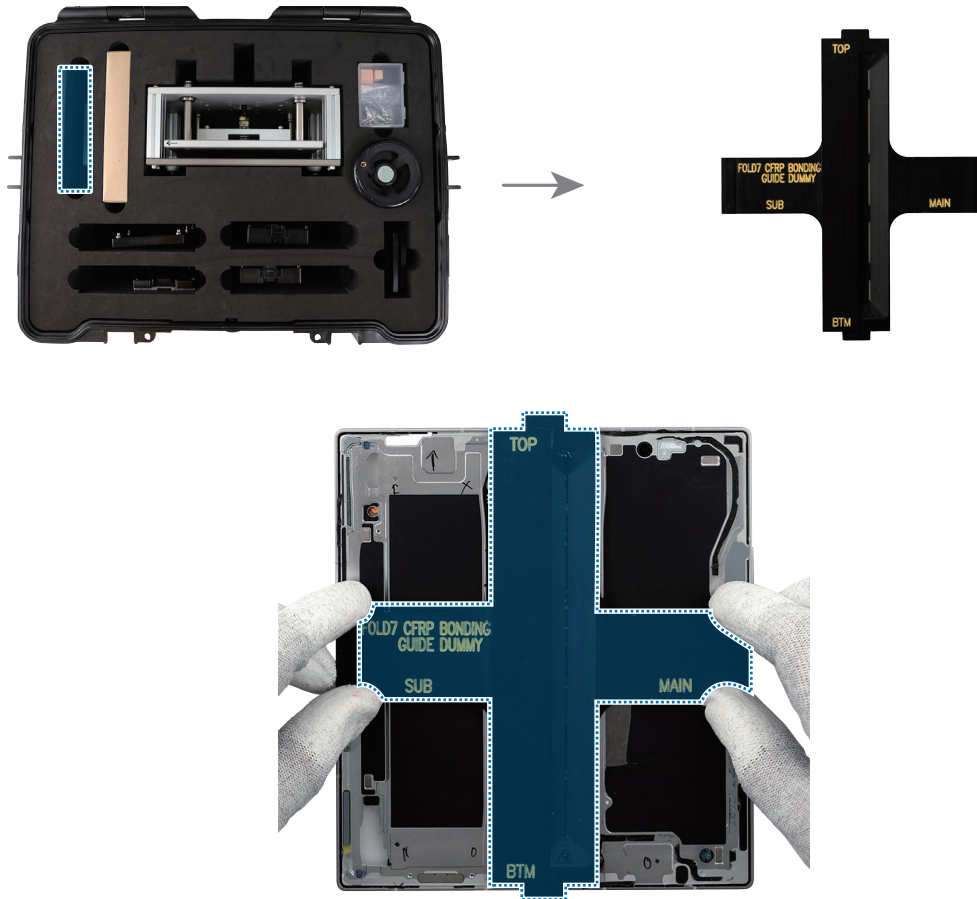


- 7 Attach the tape sub hinge screw and the tape main hinge screw. They should be attached properly on each screw's hole. Press the each positions of the screws to fit the screws. Then, remove the release film from the tape.

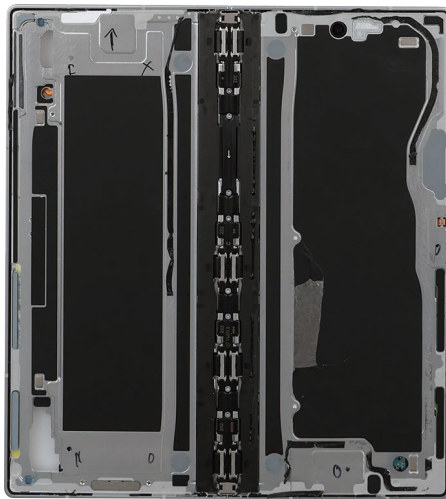
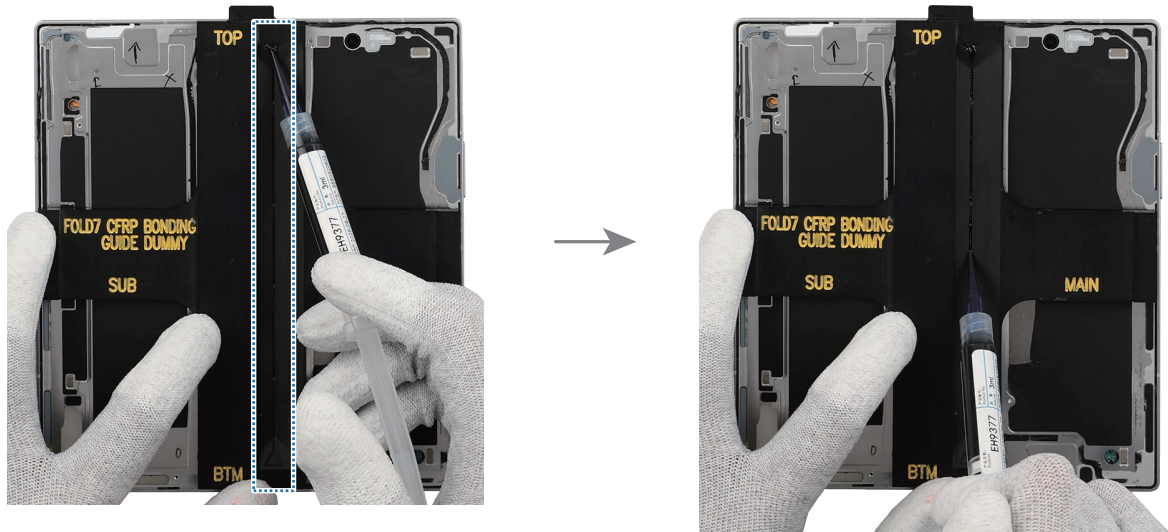


- 8 Place the device on the jig precisely, which is for applying the FULLER EH9377 adhesive. Apply the FULLER EH9377 adhesive following the guide line for adhesive from the top to the bottom.

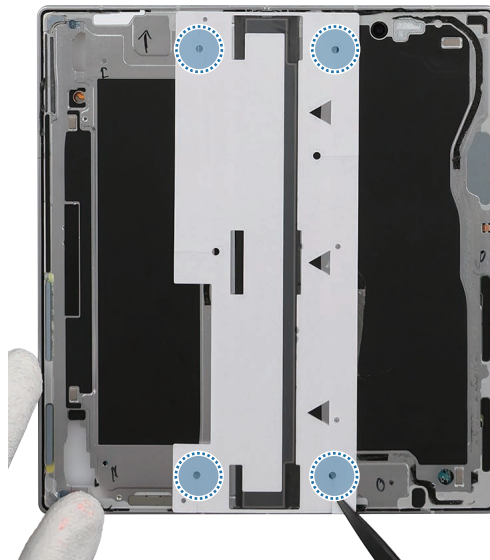
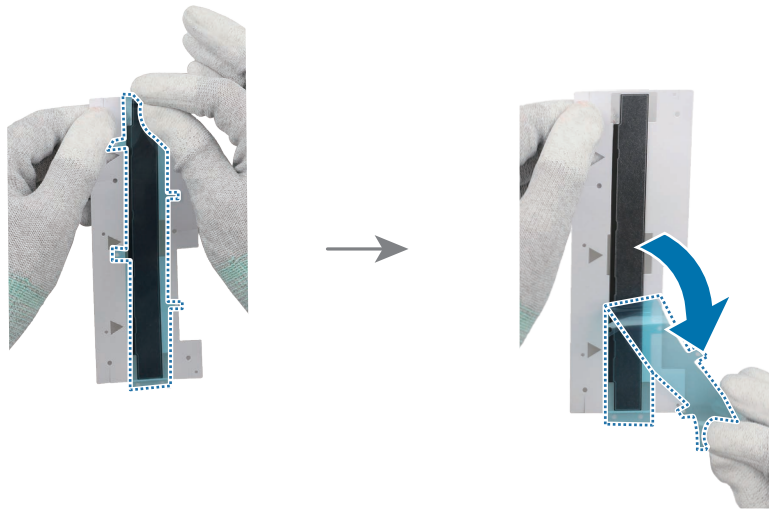
 Do not stop while applying the FULLER EH9377.



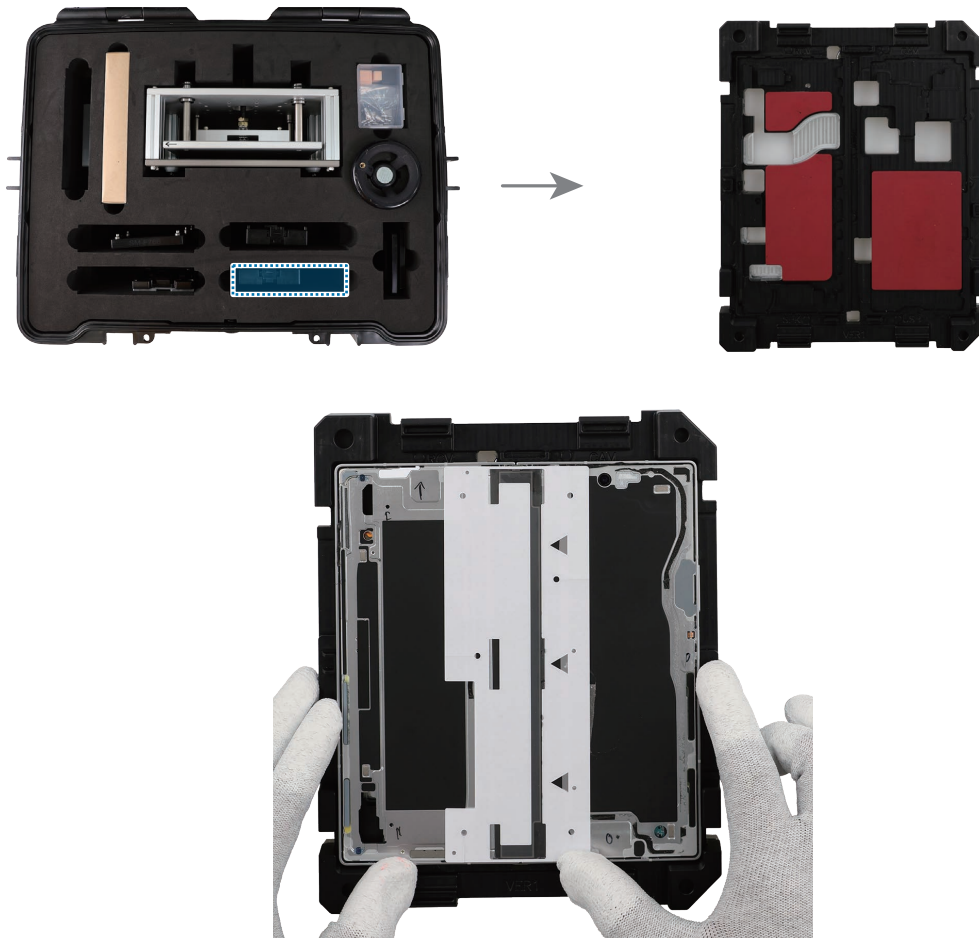
Disassembly and Assembly



- 9 Remove the release film. Align the CFRP tape on the new hinge precisely fitting on the guide circle to attach the CFRP tape.



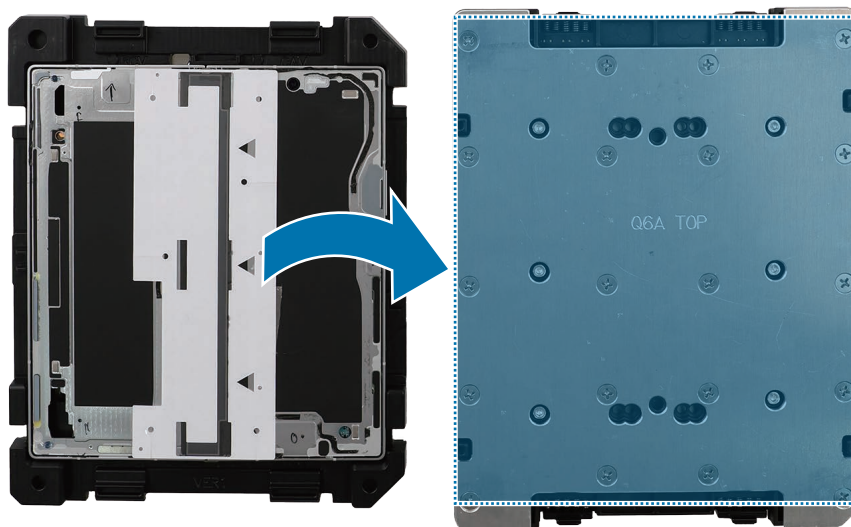
10 Place the device into the main screen bottom press tray.

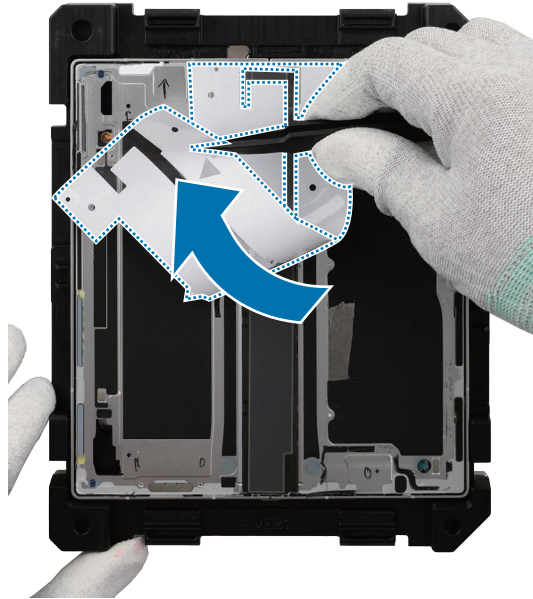


- 11 Press down the tray until you hear the locking sound in all locking of the top and bottom. Keep the state for 4 hours.

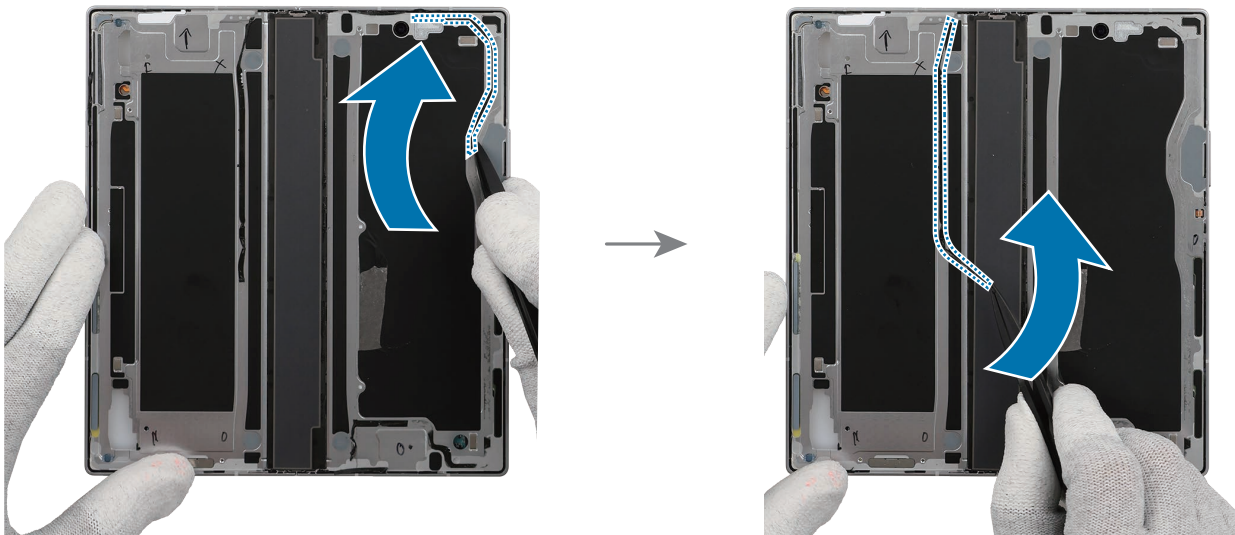


- 12 Press down the button to release the press tray. Remove the release film from the CFRP. Then, remove the adhesive remained on the device and main screen.

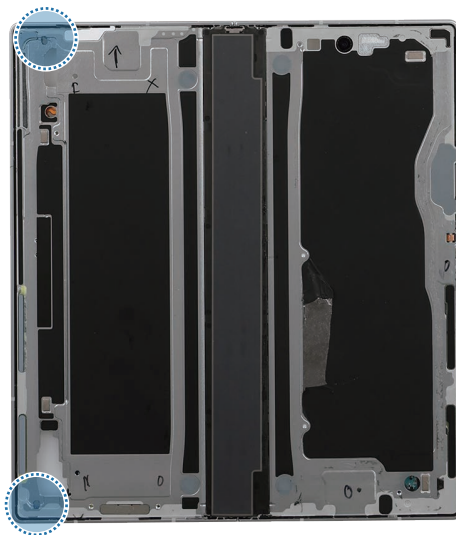
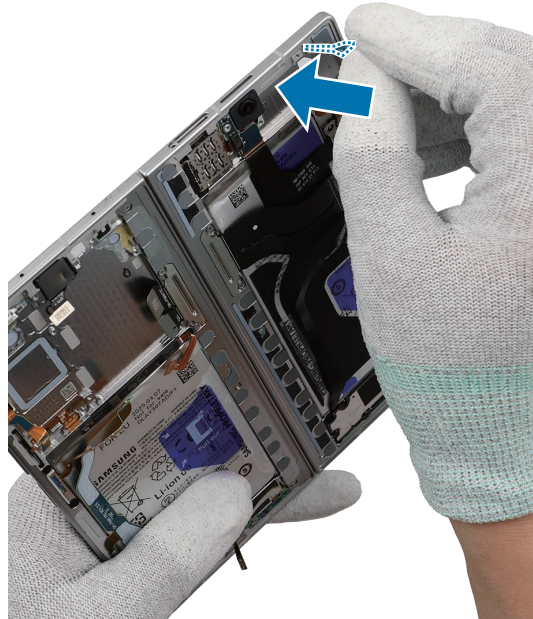




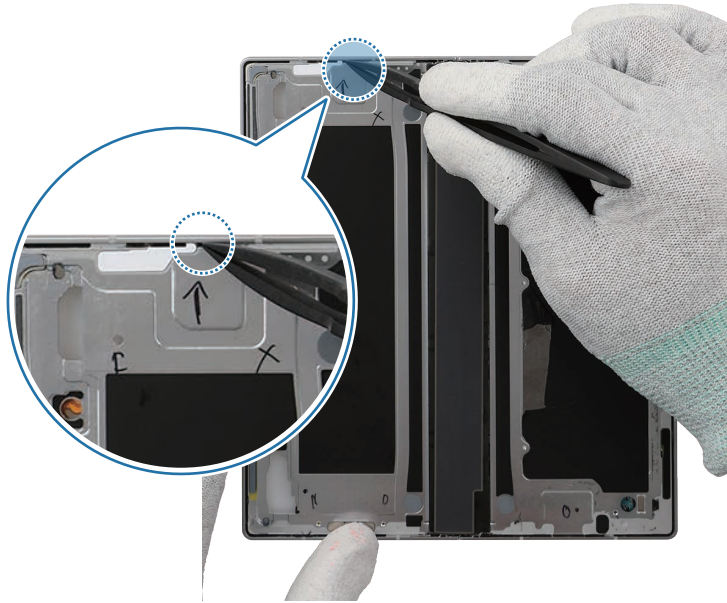
13 Using the tweezers, remove the adhesive remained on the main body.



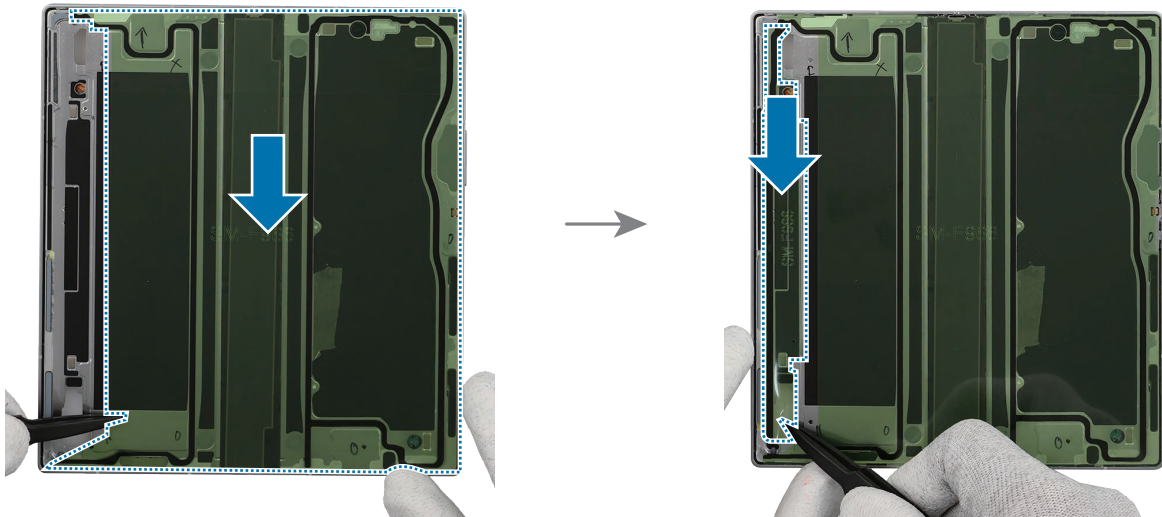
14 Using the tweezers or SIM card tray ejection pin, remove the CIPG on the 2 points.

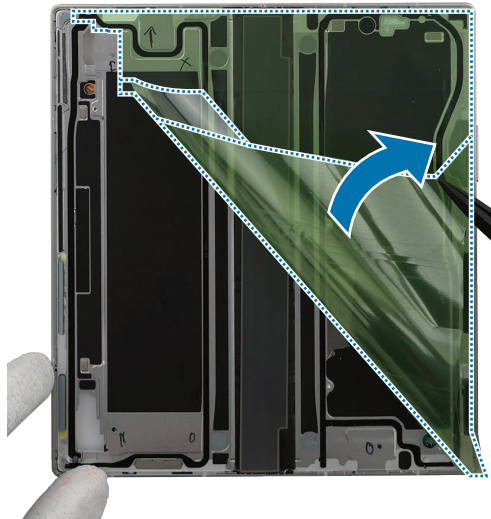


- 15 Using the tweezers, remove the FULLER adhesive remained on the edges of the device.



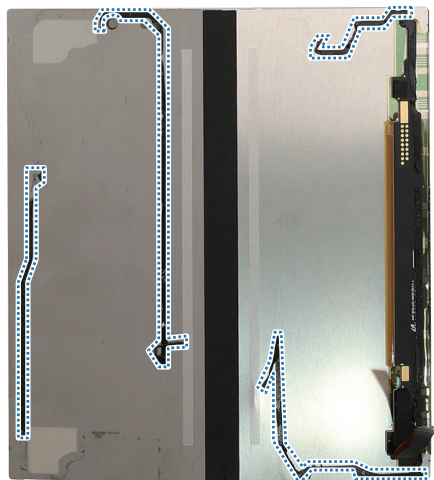
- 16 Place the main UB on the jig to attach between the device and the main screen. Attach the main UB WP1/2 tape on the main body. Press down the adhesive part to attach the tape well. Then, remove the release film from the main body.





17 To reattach the disassembled main screen, remove all adhesive and tapes from the inside of the screen using the tweezers and your fingers.

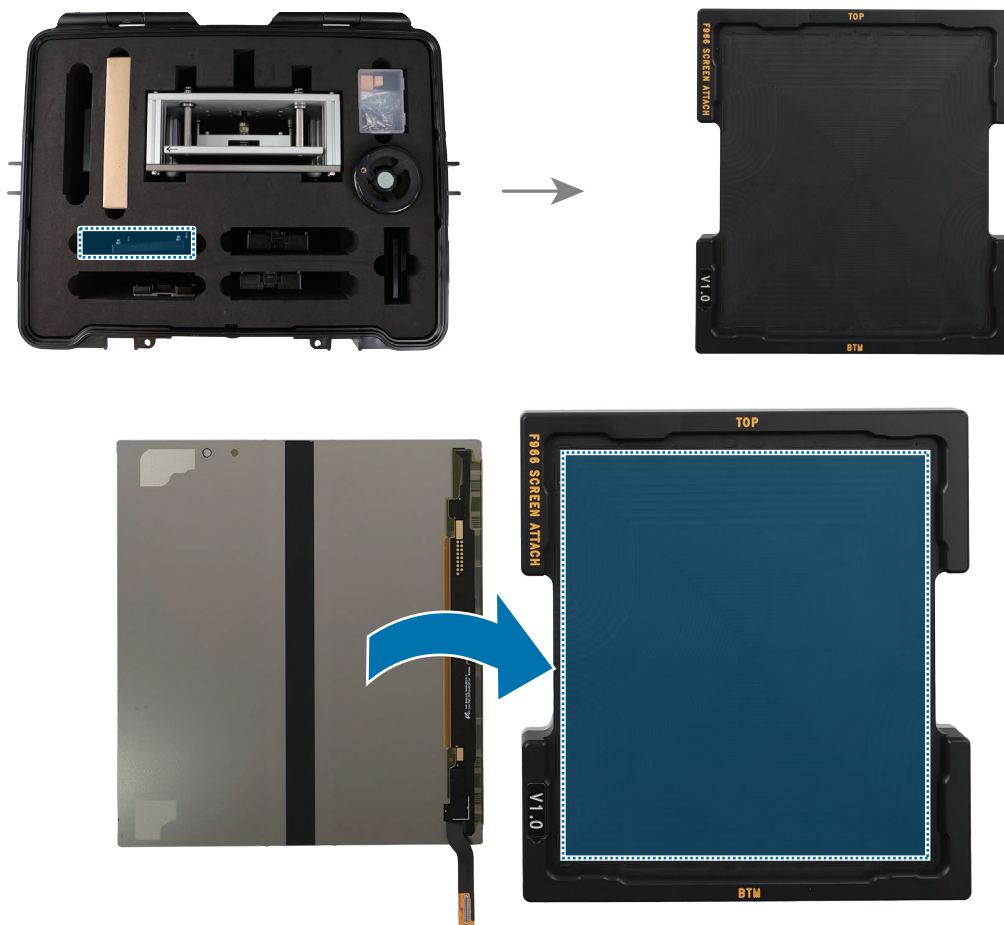
- ⚠ • Before reassembling the main screen, completely remove all remaining tapes from the inside of the screen.
- Be careful not to damage the screen.



18 Turn the main screen upside down and place it on the screen attachment jig. Align the main body on the bottom of the jig. Then, attach the main body and main screen from the bottom to top.

- ⚠ • Be careful not to damage near components.
- Be careful not to damage main screen.
- When inserting the main screen connector through the main body hole for the connector, be careful not to damage the connector.

📝 When attaching the main body to the main screen, pass through the connector area first.





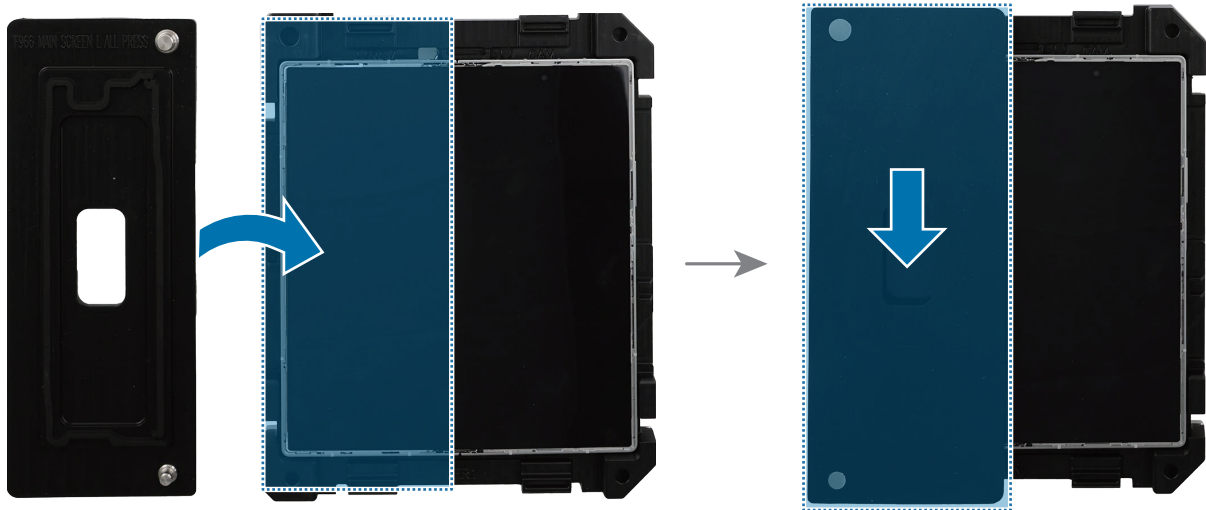
19 Align the device with the main screen bottom press tray. Place the screen facing upwards on the main screen tray.

 When placing the device on the jig, place the screen facing upwards.



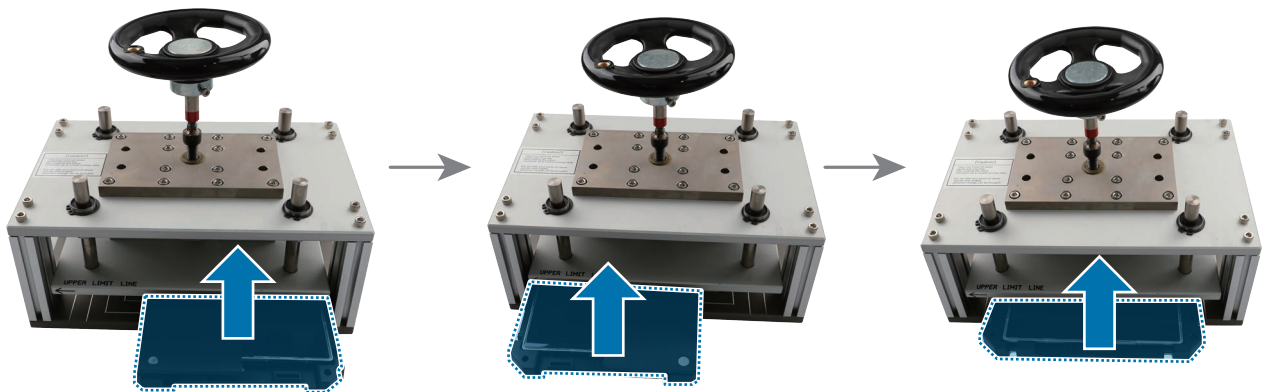
20 Cover and close the left screen with the left press tray on the main screen bottom press jig.



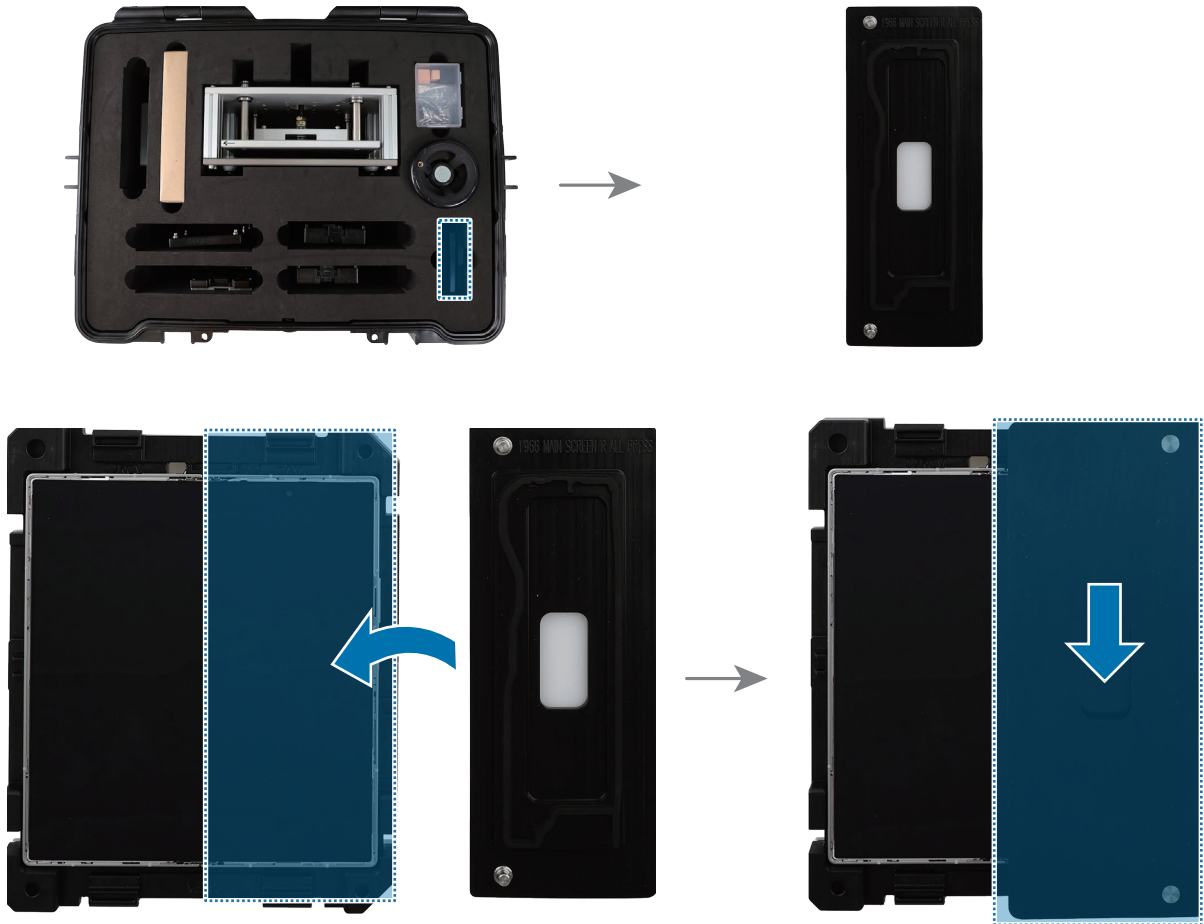


21 Position the top 1/2 of the screen press tray with the device lengthwise in the centre of the press fixture. Press it for 30 seconds. Position the bottom 1/2 of the screen press tray with the device lengthwise in the centre of the press fixture. Press it for 30 seconds. Insert the whole left of the screen press tray into press fixture, and press it for 30 seconds.

 Rotate the torque limit handle to the clockwise until it makes a sound to press the tray.

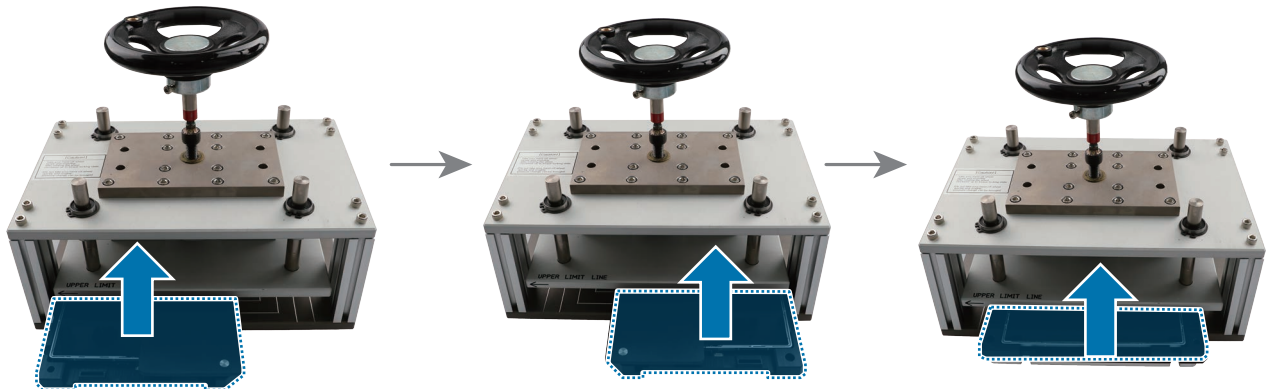


- 22 Cover and close the right side of the screen with the left press tray on the main screen bottom press jig.





23 Position the top 1/2 of the screen press tray with the device lengthwise in the centre of the press fixture. Press it for 30 seconds. Position the bottom 1/2 of the screen press tray with the device lengthwise in the centre of the press fixture. Press it for 30 seconds. Inset the whole left of the screen press tray into press fixture, and press it for 30 seconds.

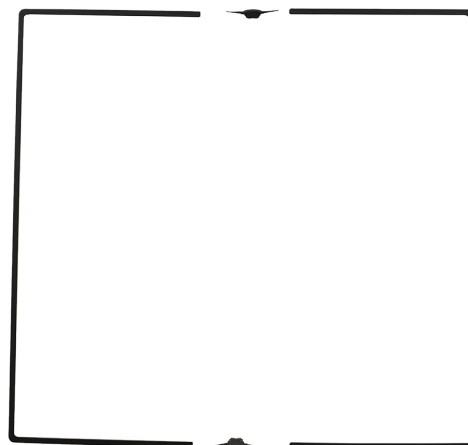
 Rotate the torque limit handle to the clockwise until it makes a sound to press the tray.

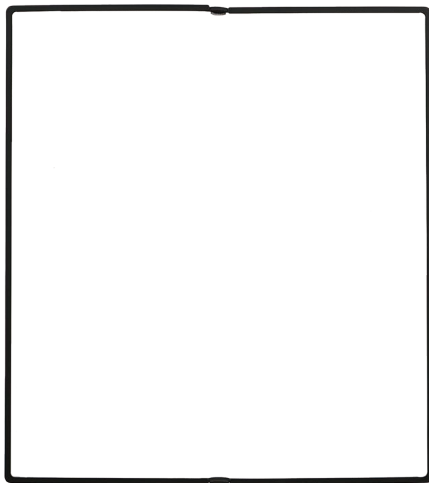
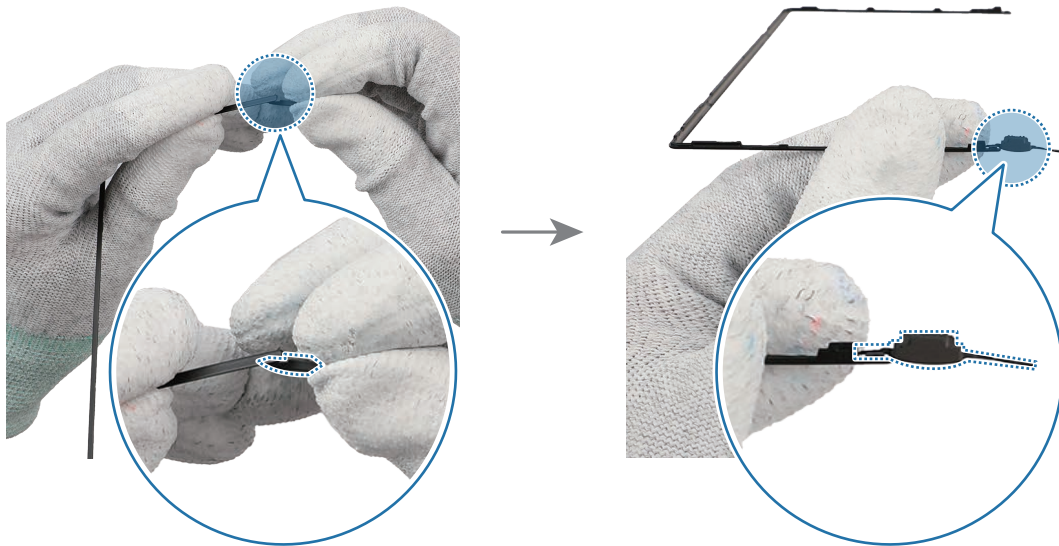


24 Prepare the new left deco (1 ea), right deco (1 ea), and P-caps (2 ea). Using your fingers, hang both rings of the P-cap on the hook at the end of the deco and assemble them.

 As the deco and P-cap can be damaged or torn by excessive force, be careful not to damage them.

 Before attaching the deco with bond, carefully check which side is correct, the left side or the right side.

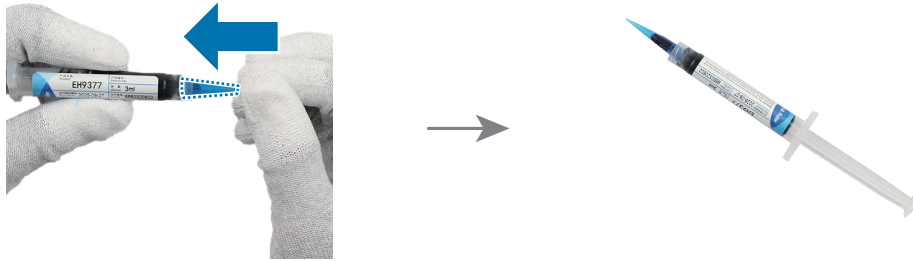




25 Remove the disposable piston and disposable needle from the rental tool kit packaging. Prepare the deco adhesive (FULLER EH9377) as well. Open the both end caps of the adhesive and assemble with the needle and piston one by one.



- If you have already used this adhesive for other assembly or if the adhesive on the needle part is hardened, you can replace only the needle with a new one and continue to use it.
- The actual adhesive, piston, and needle may be different from the image.



26 Before using the adhesive for the first time, apply it to tissue or paper for about 3 seconds and discard the first part of the adhesive. Check the red points (●) where the adhesive should not be applied. After then, carefully apply the adhesives on all edges where the deco will be attached.


- ⚠ • Before using the adhesive, you must wear protective safety equipments such as glasses, gloves, and a mask for your safety.
 - If the adhesive is in contact with the skin, wash it off with clean water immediately.
 - Adhesive is not allowed to be used for other purposes.
 - Be careful not to get stabbed or injured by needle.
- ⚠ If the applied adhesives overflows, wipe it carefully with a clean and soft cloth.

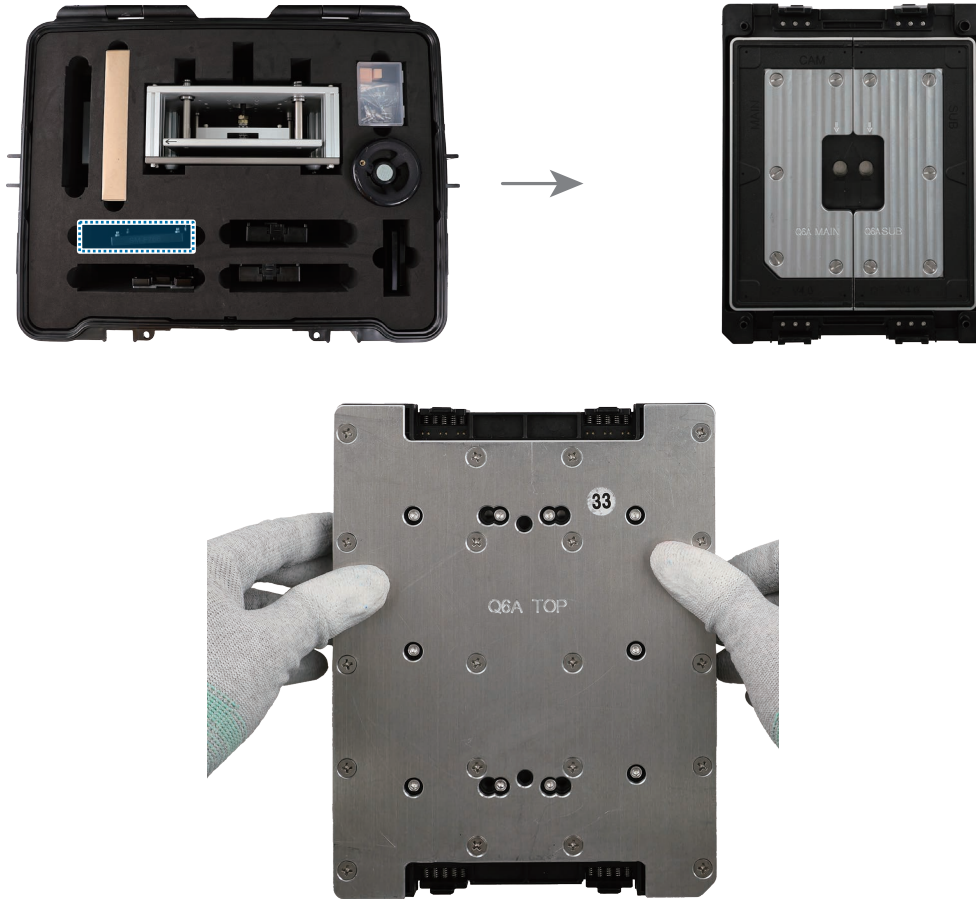


- 27 Place the device on the press tray and attach the deco on the all edges of the main screen.

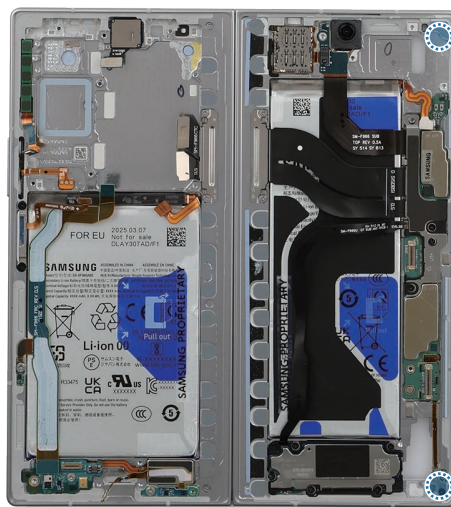


28 Place the deco press tray on the main screen bottom press tray and press down the deco tray until you hear the locking sound. Keep that state for 4 hours.

 To unlock the press tray, press the button. The pressure kit will be unlocked.

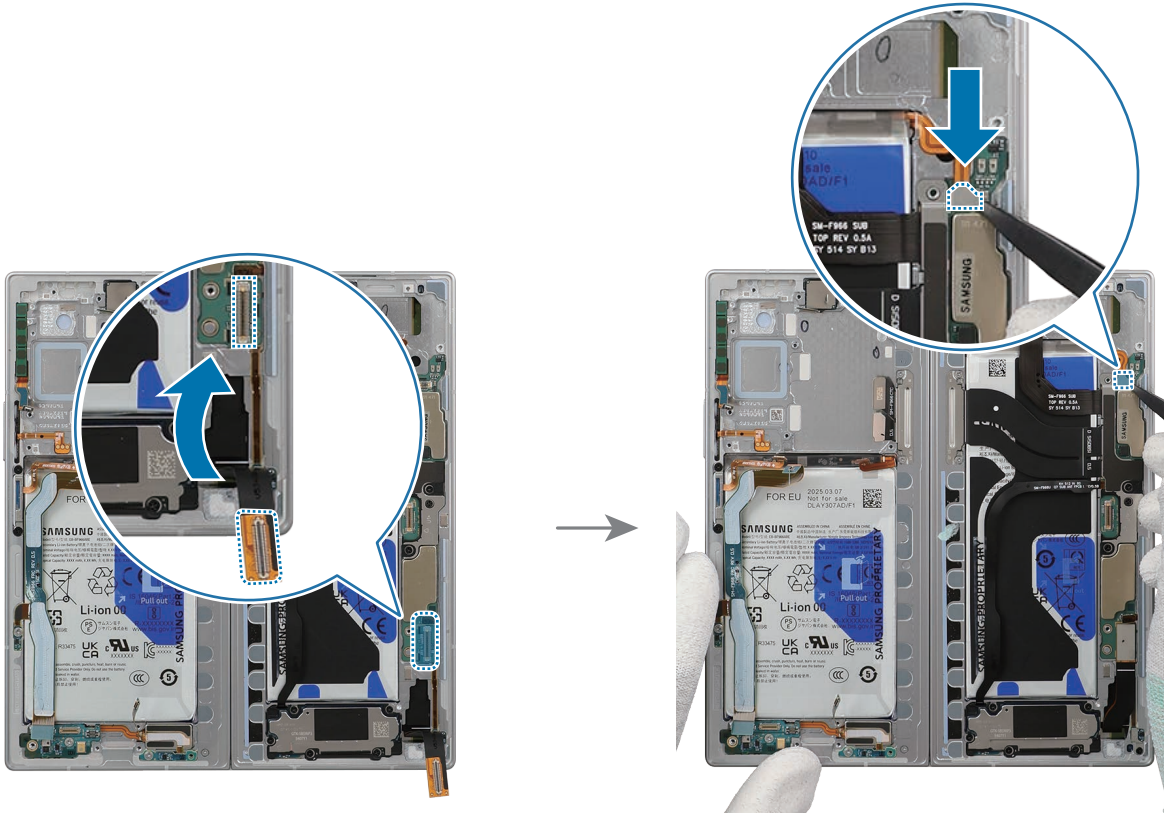


29 Inject the CIPG on the 2 points. The bond needs to be dried and be fixed for 90 minutes.



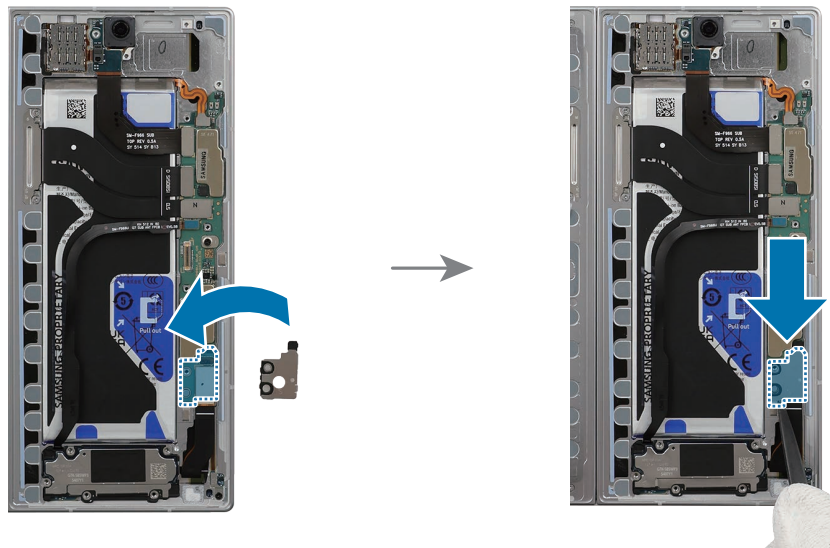
30 Connect main screen connector with the tweezers. Then, connect the battery connector with the tweezers.

- ⚠ • Be careful not to damage near components
- Be careful not to damage the flexible cables.
- Make sure not to lose the screw.



31 Assemble the sub rear con cap with the tweezers.

- ⚠ • Be careful not to damage near components
- Be careful not to damage the flexible cables.
- Make sure not to lose the screw.



32 Fasten the screw on the cap using a cross-head screwdriver.

- ⚠ • Be careful not to damage near components
- Be careful not to damage the flexible cables.
- Make sure not to lose the screw.



- ✓ • Reassemble the [Top Speaker](#) to complete assembly.
- Refer to [Rear Camera](#) before you begin reassembling the main board.
- Lastly, reassemble the [Back Cover](#).

Main Screen

- ⚠ The main screen should be replaced only by technicians with the knowledge and experience to repair electronic devices. If the main screen is faulty, contact the specialised repair shop for further action.

Disassembly

- ✍ • Remove the [Back Cover](#) and [Top Speaker](#) first before you begin.
- Refer to [Rear Camera](#) to remove the main board.

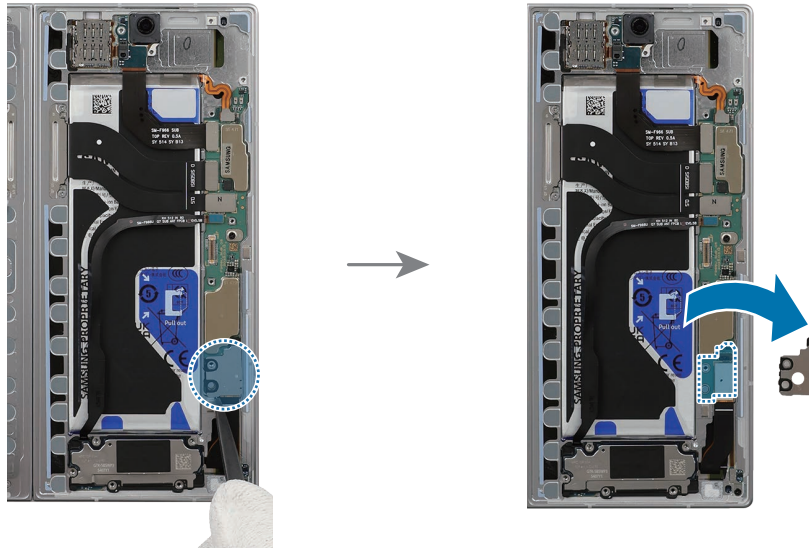
1 Check and remove the screw on the cap using a cross-head screwdriver.

- ⚠ • Be careful not to damage near components
- Be careful not to damage the flexible cables.
- Make sure not to lose the screw.



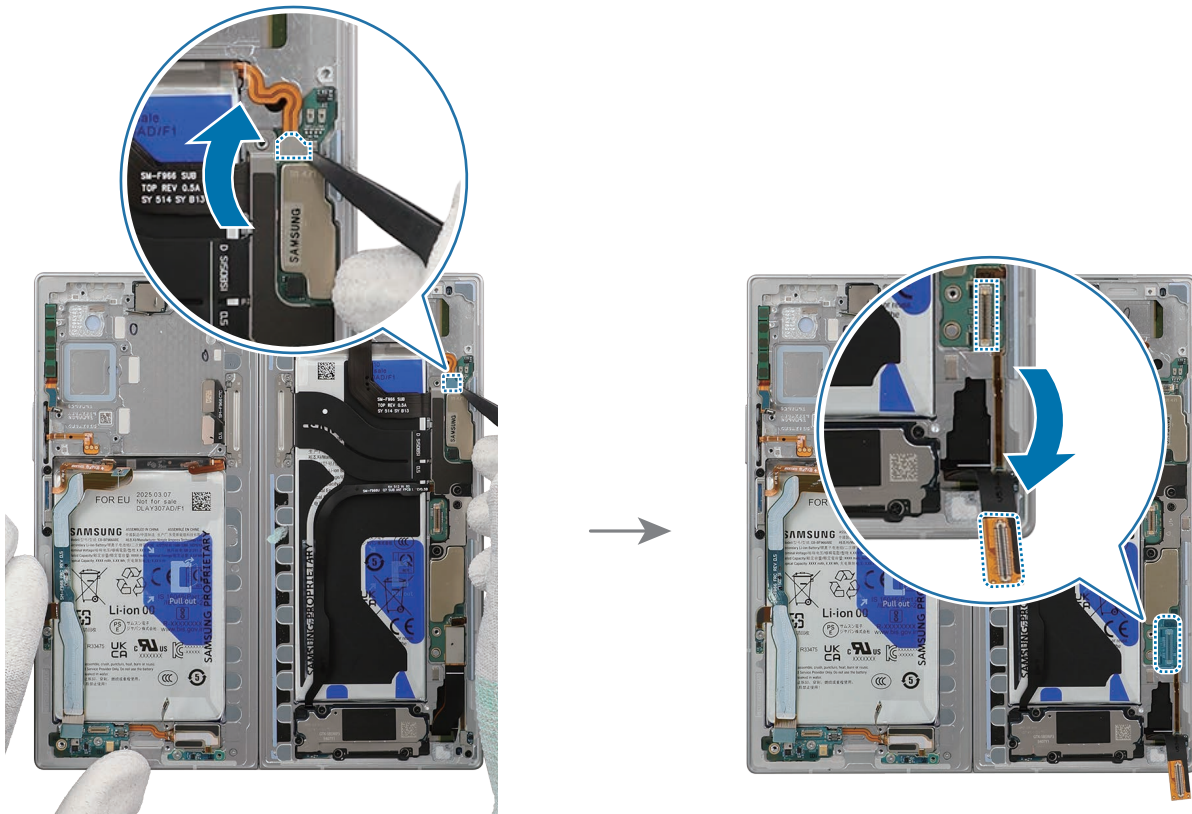
2 Remove the sub rear con cap with the tweezers.

- ⚠ • Be careful not to damage near components.
- Be careful not to damage the flexible cables.
- Make sure not to lose the screw.



3 Using the tweezers, disconnect the battery connector first. Then, using the tweezers, disconnect main screen connector.

- ⚠ • Be careful not to damage near components
- Be careful not to damage the flexible cables.
- Make sure not to lose the screw.



4 Heat the microwaveable heating bag and apply it on the main screen for 3 minutes.



- It is possible for the device or battery to be damaged by heat.
- Do not heat the device in a microwave. Doing so could cause an explosion.
- If your device's glass breaks, the debris can cause injury to your hands or other body parts. For your safety, attach an acrylic protective cover before disassembling the screen.

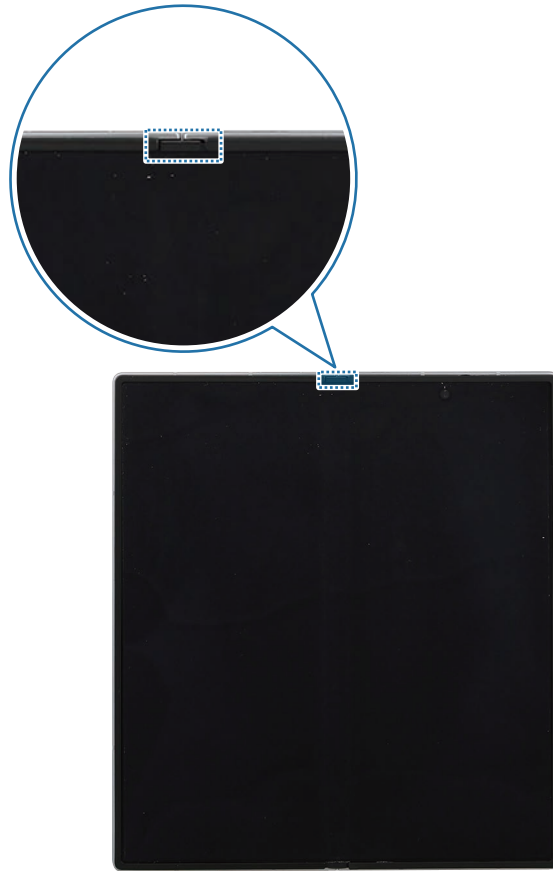


- Follow the heating bag's instructions for heating. The recommended time for heating the bag is 50 seconds in a 1000 W microwave and 70 seconds in a 700 W microwave. (Correct temperature for use: 55-65 °C.)
- Be careful not to damage the device through excessive heat. (It is recommended to disassemble the device in an area with a temperature gauge.)



5 Using the nipper, remove the upper P-cap.

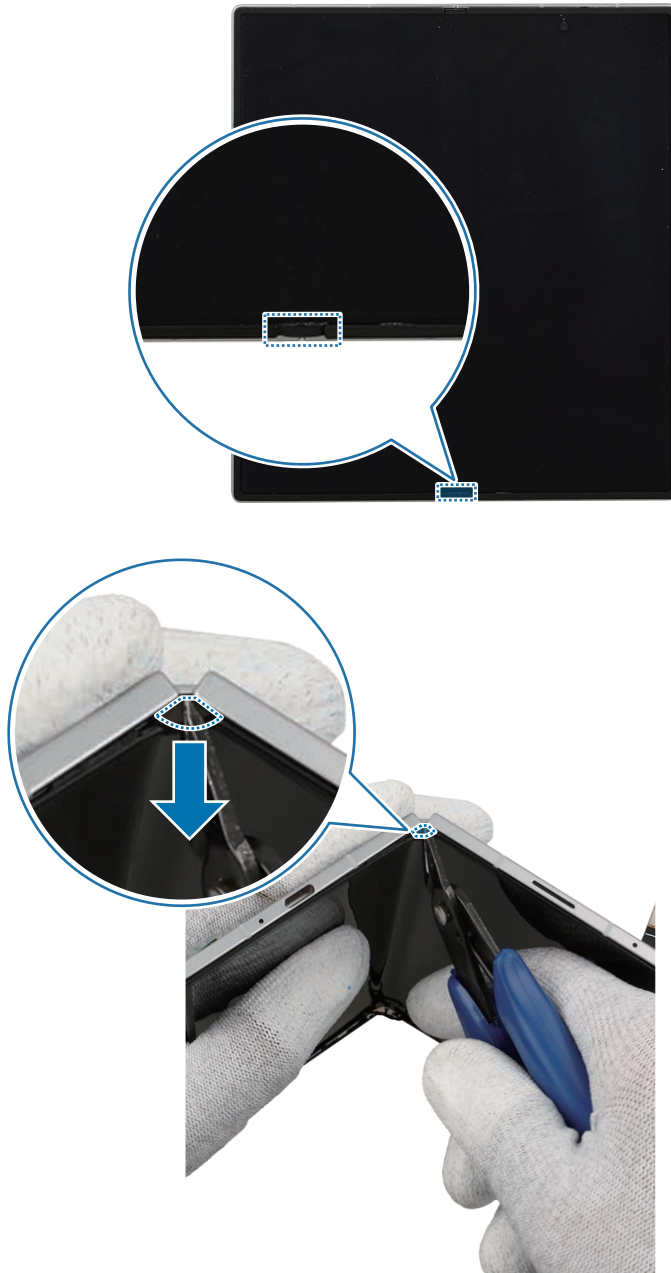
⚠ Be careful not to damage the screen module.





6 Using the nipper, remove the lower P-cap.

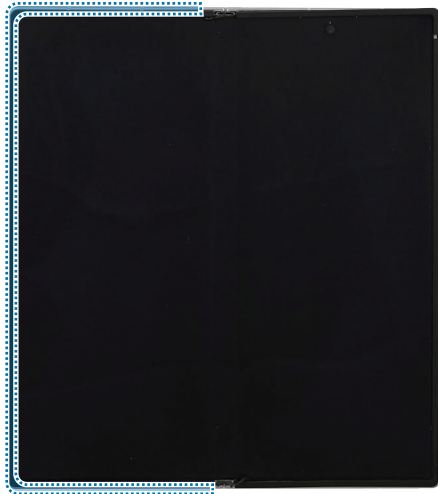
⚠ Be careful not to damage the screen module.





7 Heat the microwaveable heating bag and apply it on the left side of the main screen for 3 minutes to melt the adhesive bond to remove the deco.

- ⚠ • It is possible for the device or battery to be damaged by heat.
- Do not heat the device in a microwave. Doing so could cause an explosion.
- If your device's glass breaks, the debris can cause injury to your hands or other body parts. For your safety, attach an acrylic protective cover before disassembling the screen.
- ⚠ • Follow the heating bag's instructions for heating. The recommended time for heating the bag is 50 seconds in a 1000 W microwave and 70 seconds in a 700 W microwave. (Correct temperature for use: 55-65 °C.)
- Be careful not to damage the device through excessive heat. (It is recommended to disassemble the device in an area with a temperature gauge.)



8 Using the tweezers, remove the left deco.

⚠ Be careful not to damage the screen module.



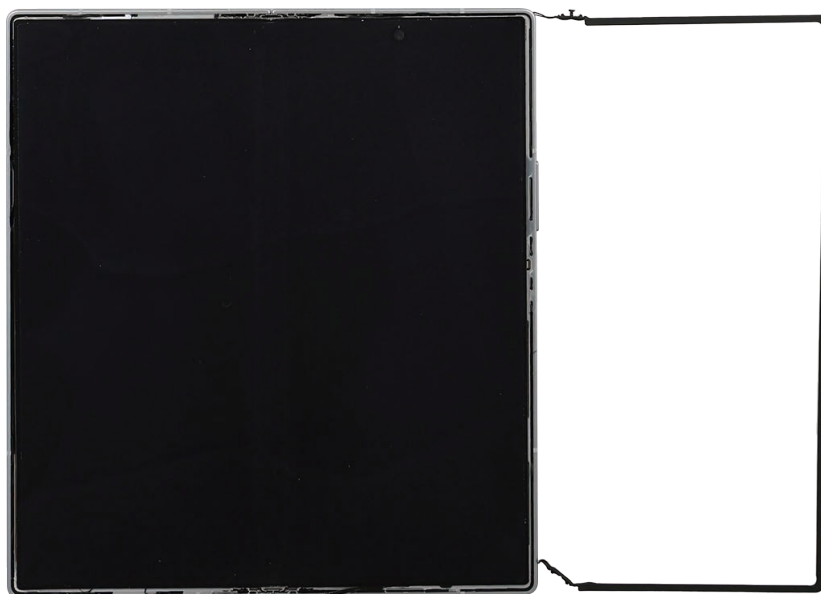
9 Heat the microwaveable heating bag and apply it on the right side of the main screen for 3 minutes to melt the adhesive bond to remove the right deco.

- ⚠ • It is possible for the device or battery to be damaged by heat.
- Do not heat the device in a microwave. Doing so could cause an explosion.
- If your device's glass breaks, the debris can cause injury to your hands or other body parts. For your safety, attach an acrylic protective cover before disassembling the screen.
- ⚠ • Follow the heating bag's instructions for heating. The recommended time for heating the bag is 50 seconds in a 1000 W microwave and 70 seconds in a 700 W microwave. (Correct temperature for use: 55-65 °C.)
- Be careful not to damage the device through excessive heat. (It is recommended to disassemble the device in an area with a temperature gauge.)



10 Using the tweezers, remove the right side deco.

⚠ Be careful not to damage the screen module.



11 Heat the microwaveable heating bag and apply it on the main screen for 3 minutes to remove the main screen.

- ⚠ • It is possible for the device or battery to be damaged by heat.
- Do not heat the device in a microwave. Doing so could cause an explosion.
- If your device's glass breaks, the debris can cause injury to your hands or other body parts. For your safety, attach an acrylic protective cover before disassembling the screen.
- ⚠ • Follow the heating bag's instructions for heating. The recommended time for heating the bag is 50 seconds in a 1000 W microwave and 70 seconds in a 700 W microwave. (Correct temperature for use: 55-65 °C.)
- Be careful not to damage the device through excessive heat. (It is recommended to disassemble the device in an area with a temperature gauge.)

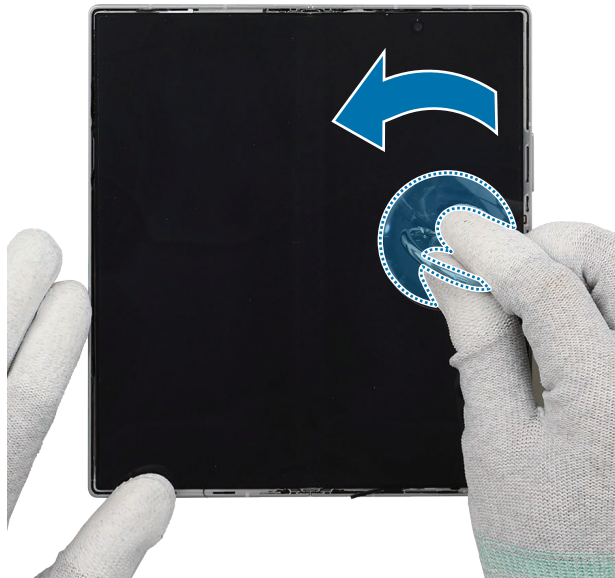


12 Place the suction cup in the centre of the right side of the main screen.

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




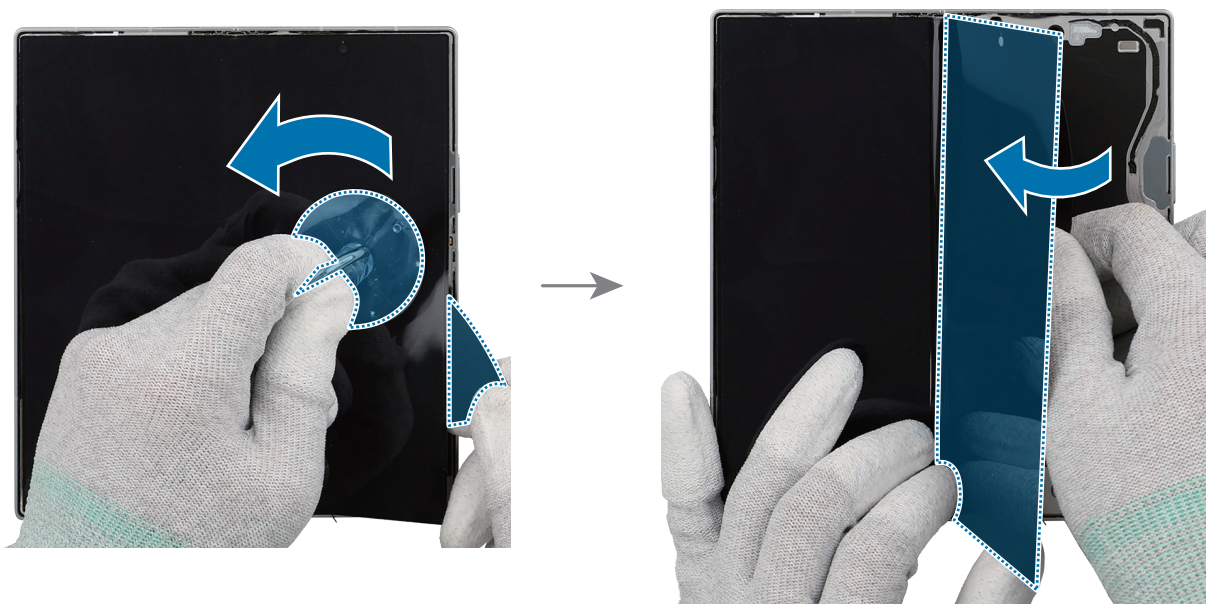
- ⚠ • As the main screen can be damaged by excessive force, be careful not to damage the main screen.
- Be careful that the suction cup does not adhere to the area where the tape or sticker is attached.
- ✔ If you have trouble creating a gap, heat the microwaveable heating bag additionally, and apply it on the main screen to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.



13 Insert the opening pick carefully into the upper right corner of the back of the main screen and lift up the screen slightly. Slide the opening pick carefully along the edges to slice through the adhesive between the screen and the metal frame, and separate the screen slowly while lifting it up as a whole with smooth and steady force. When separating the right of the screen, slowly and gently lift the screen with your hands to prevent damaging the components located inside.

 Do not bend too much as the screen may break and get hurt.

 If you have trouble removing the screen, heat the microwaveable heating bag additionally, and apply it on the front of screen to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.



14 Heat the microwaveable heating bag and apply it on the left side of the main screen for 3 minutes to melt the bond for the screen.



- It is possible for the device or battery to be damaged by heat.
- Do not heat the device in a microwave. Doing so could cause an explosion.
- If your device's glass breaks, the debris can cause injury to your hands or other body parts. For your safety, attach an acrylic protective cover before disassembling the screen.



- Follow the heating bag's instructions for heating. The recommended time for heating the bag is 50 seconds in a 1000 W microwave and 70 seconds in a 700 W microwave. (Correct temperature for use: 55-65 °C.)
- Be careful not to damage the device through excessive heat. (It is recommended to disassemble the device in an area with a temperature gauge.)



When reheating, it should be heated no longer than 30 seconds.



15 Place the suction cup in the centre of the left side of the main screen.

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



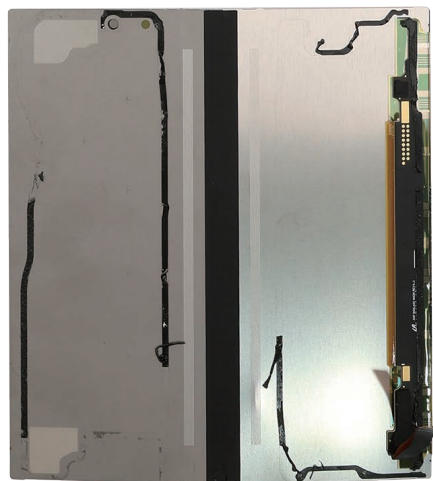
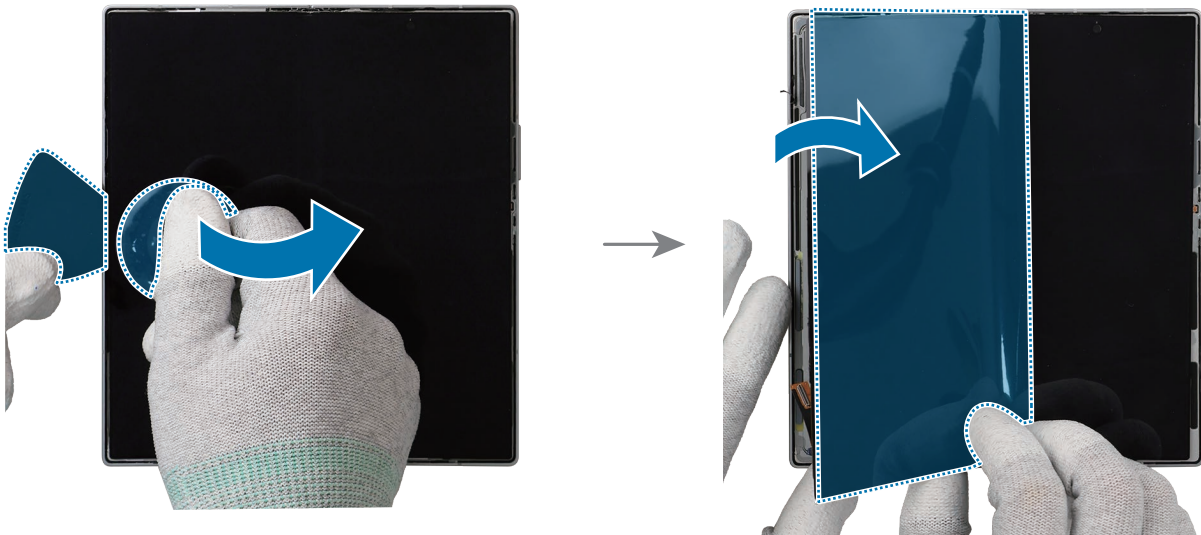
- ⚠ • As the main screen can be damaged by excessive force, be careful not to damage the main screen.
- Be careful that the suction cup does not adhere to the area where the tape or sticker is attached.
- ✔ If you have trouble creating a gap, heat the microwaveable heating bag additionally, and apply it on the main screen to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.





16 Insert the opening pick carefully into the gap and lift up the screen slightly. Slide the opening pick carefully along the edges to slice through the adhesive between the screen and the metal frame, and separate the screen slowly while lifting it up as a whole with smooth and steady force. When separating the right of the screen, slowly and gently lift the screen with your hands to prevent damaging the components located inside.

⚠ Do not bend too much as the screen may break and get hurt.

📄 If you have trouble removing the screen, heat the microwaveable heating bag additionally, and apply it on the front of screen to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.



Reassembly

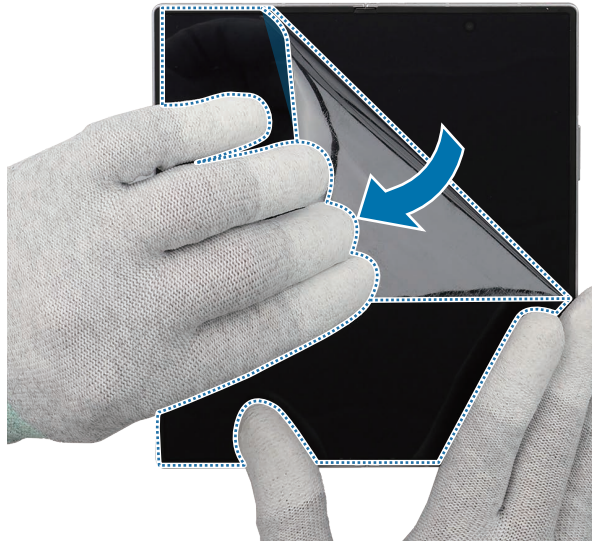
-  Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.
-  Refer to [Hinge Assy](#) to assemble the new main screen.

Protector Film



Disassembly

Using the tweezers or your fingers, remove the protective film.

⚠ Be careful not to damage the main screen.



Reassembly

-  Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.
-  Ensure that the device is in the place without dust or debris.

- 1 Assemble the protective film tray and film fixture.

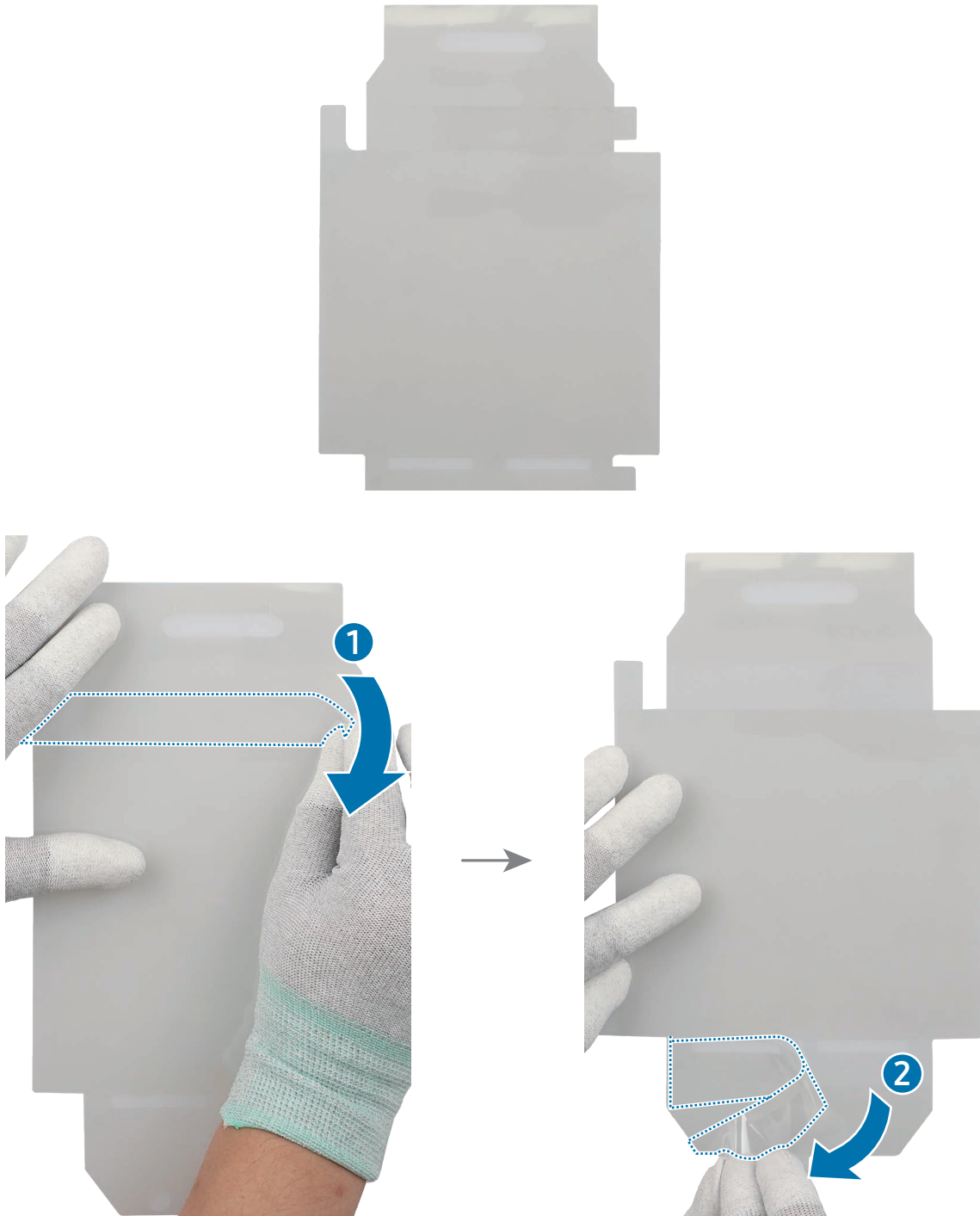


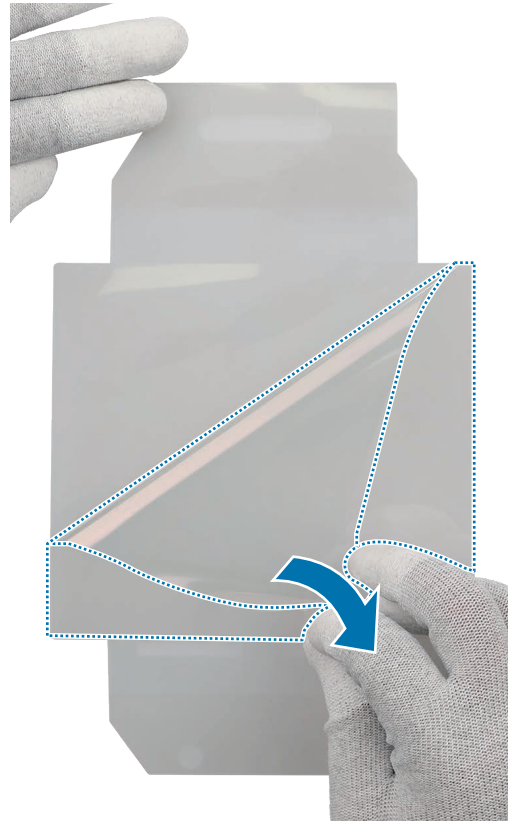
- 2 Place the device on the protective film tray. Then, wipe out dusts and debris with a cotton cloth.



3 Remove the release film in order of 1, 2, and 3.

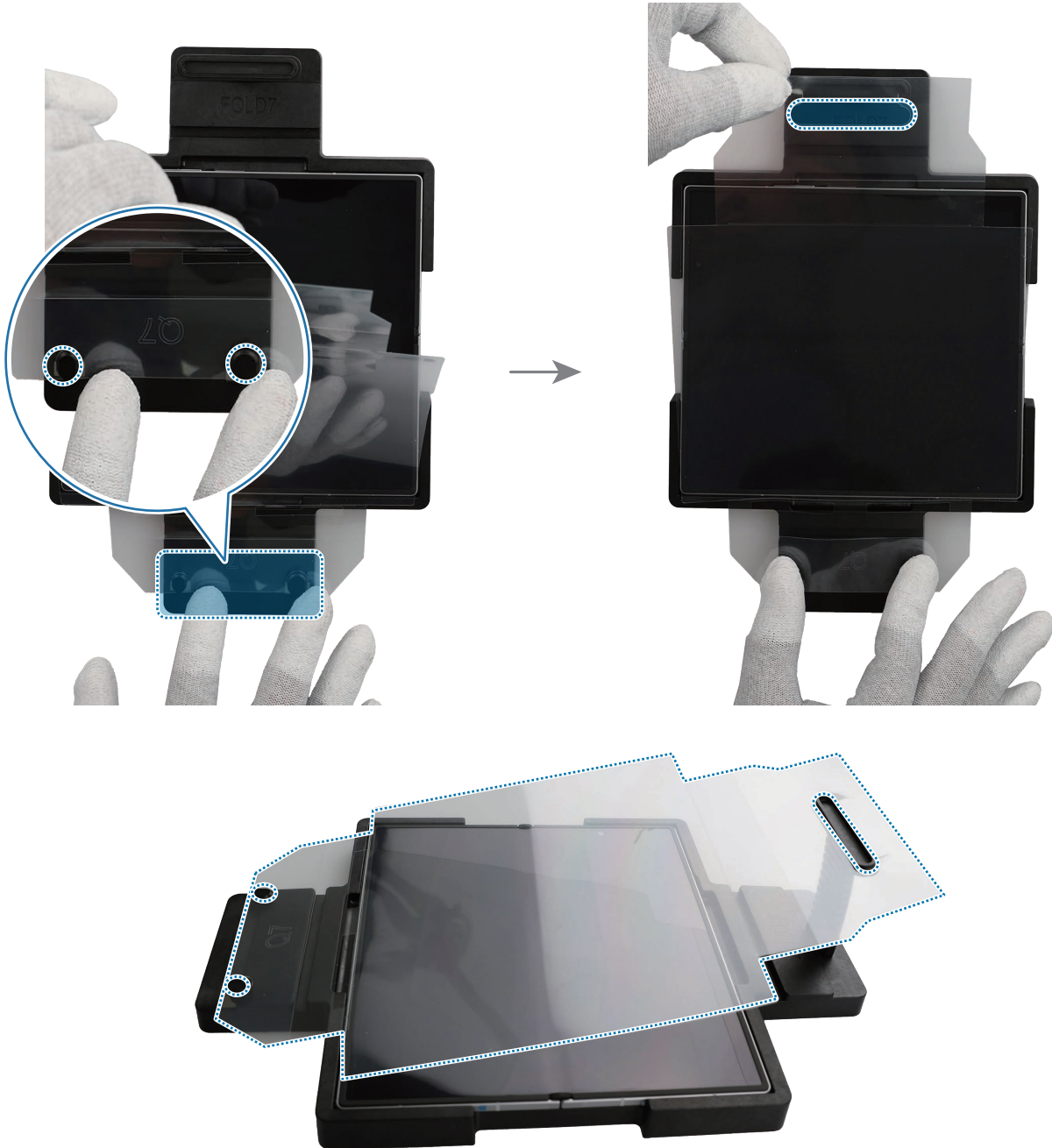
⚠ If the release films are removed too quickly, the protective film may be damaged. Be careful to remove slowly.





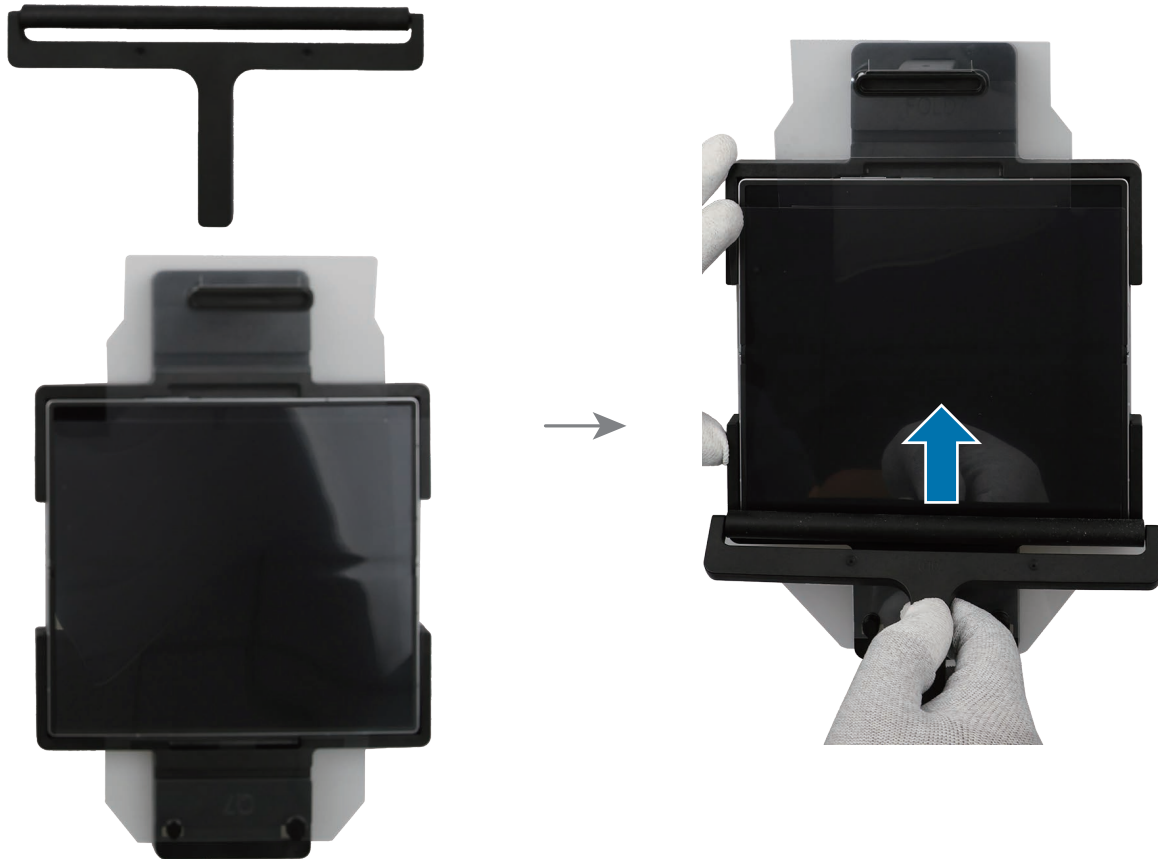
4 The release film of the protective film should be hooked on the 2 support holders completely. Then, hook the protective film onto the film fixture.

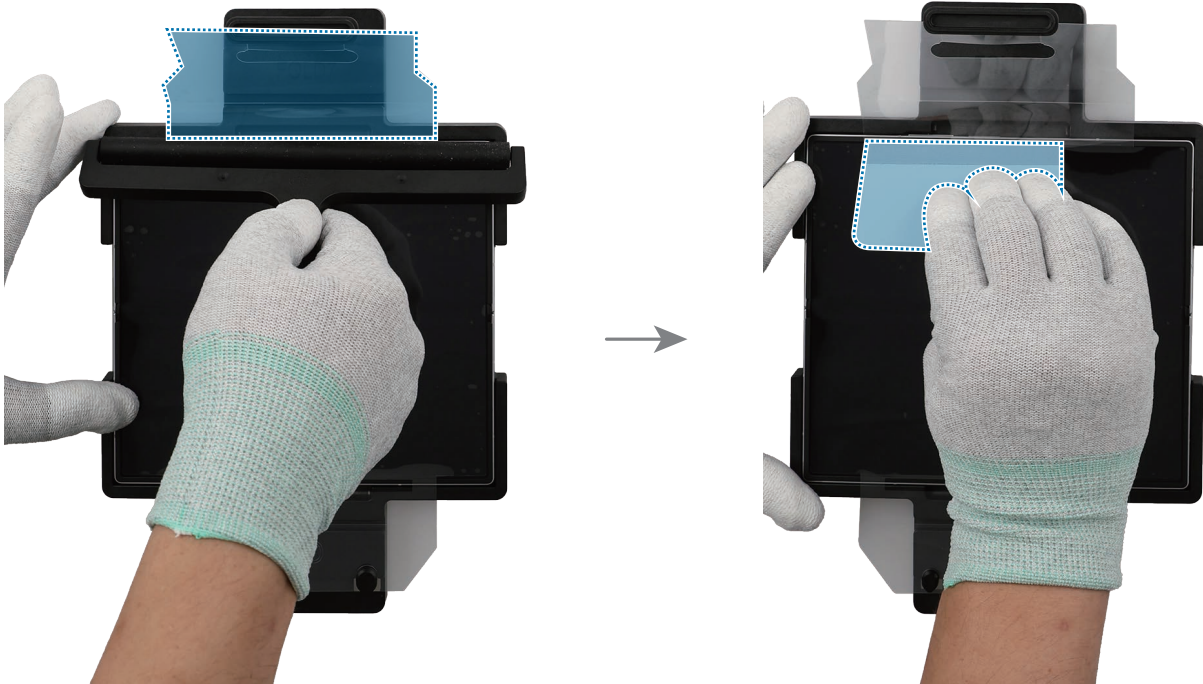
⚠ If the film is not hooked onto the holder correctly, it will not be attached in the proper position.



5 Prepare the roller for the protective film. Start rolling the protective film with the roller from the bottom to the top slowly and smoothly. If you finish rolling, the film may be detached from the film fixture. Attach the film with the squeeze tool well, slowly and gently.

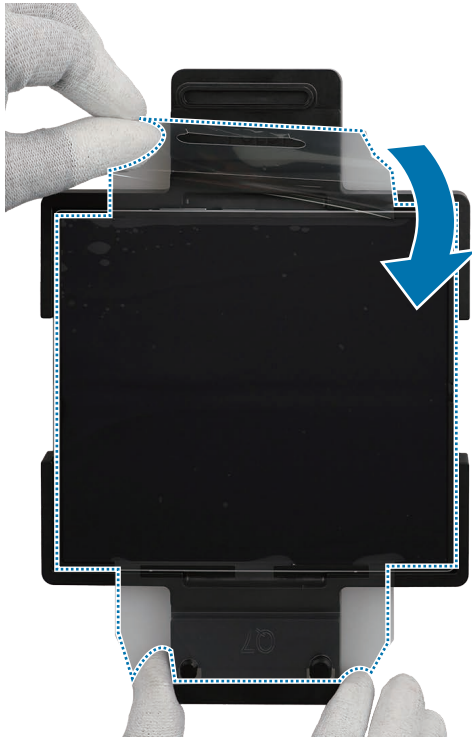
- Before you roll the film, dust or debris on the roller should be removed with tapes.
- In case of if the film is not detached on the fixture, detach it by your hands.





6 Remove the release film from the protective film. After removing the release film, remove the air bubble with the squeeze. Then, fold the device once.

- ⚠ • When using the squeeze, be careful not to press strongly around the hinge and folding.
- When using the squeeze, be careful not to give the strong power to the screen.
- When using the squeeze, be careful not to use the nails on the screen. Doing so could cause the scratch or damage of the screen.
- The final air bubbles will disappear within 24 hours.



After reassembling

- Check whether the parts or sensors in the device work properly with the Self Repair Assistant app after repairing and assembling your device. Refer to [Calibrations](#) for more information.
- Visit a Samsung Service Centre when finding some issues from the calibration results. However, you may incur additional charges if the device has a malfunction because of DIY repairs.

Press



- The **Press** step is a process for responding to Repair Regulations implemented in some regions and may not be an essential process.
- When repairing the back cover or battery, the press roller or stamp can be bundled with the ordered parts. Availability of bundle tool may vary depending on the country and is currently available only in limited countries.
- The press toolkit is only available to use by the rental of tool kit that contains a complete set of the tools for self repair service. Availability of rental service for this toolkit may vary depending on the country and is currently available only in limited countries.


Before pressing,


- Using the rental press toolkit or bundle tool, you can further press the fully assembled back cover, cover screen, or battery.
- Appropriate tool for pressing the back cover or cover screen depends on the parts repaired.
- Prepare all necessary press tools and make sure to wear the appropriate safety equipment for your safety.
- Ensure that the device is fixed on a soft and flat surface.


Back Cover Press

 Appropriate tool for pressing depends on the parts repaired.

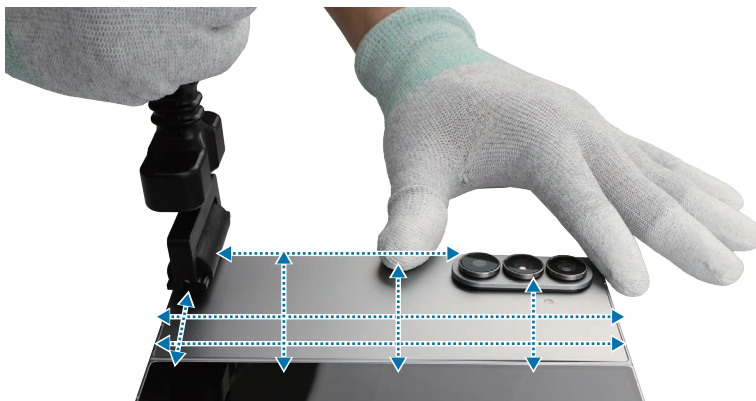
Using the roller and stamp

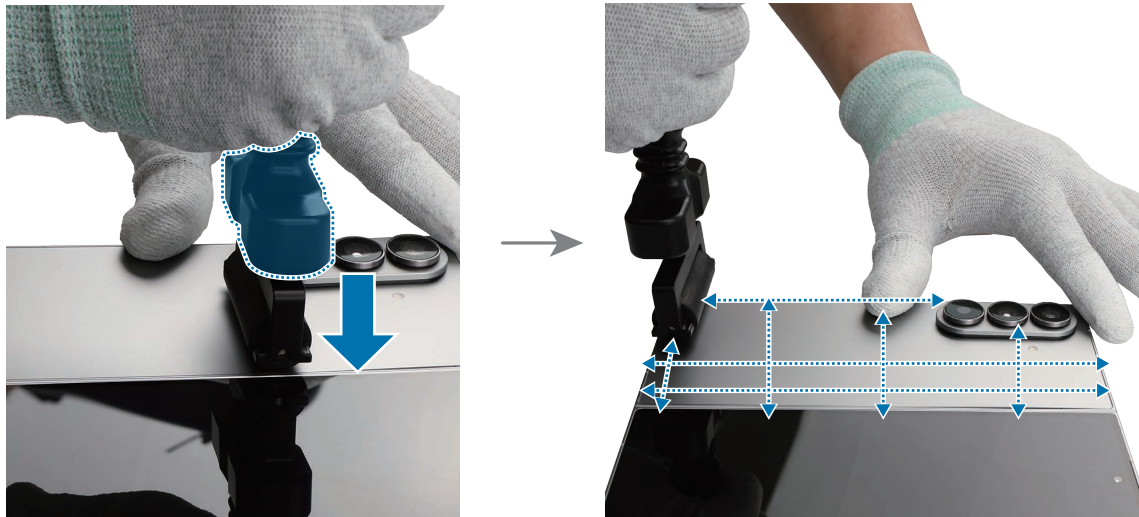
 Keep your hands out of the roller and stamp.

-  • Be sure to swipe while the spring of the roller and stamp is pressed.
- As the back cover can be damaged by excessive force, be careful not to damage the back cover.
- Be sure to place the surface of the roller and stamp horizontally on the back cover.

 If you have repaired a single back cover, or if you have disassembled and assembled the back cover to repair the battery, you can use the bundled roller and stamp to press the back cover further.

- 1 With the roller's spring pressed, use the press roller to rub the edges of the back cover 5 times from bottom to top. Repeat this 5 times at all edges of the back cover so that the back cover is pressed well.

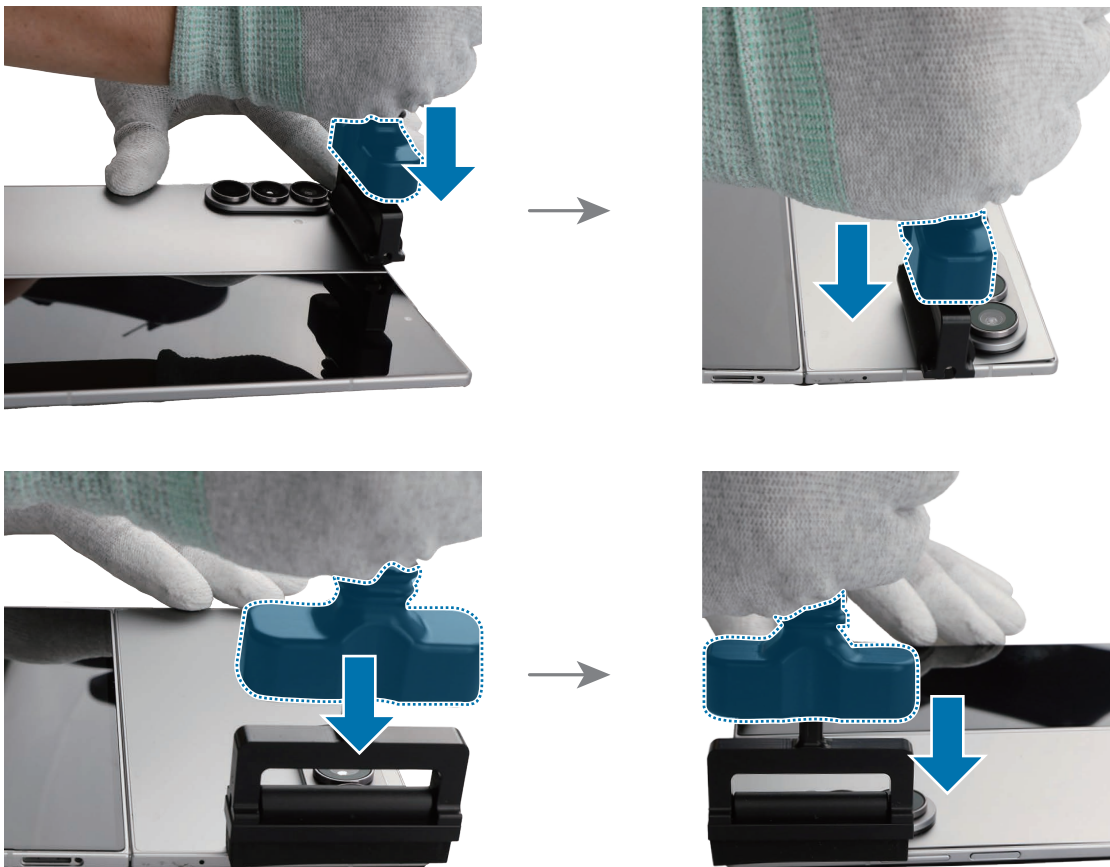





2 Press the outer edges of the camera with a press stamp for 5 seconds while pressing the spring of the stamp.

⚠ Be careful not to damage the camera part by the stamp.

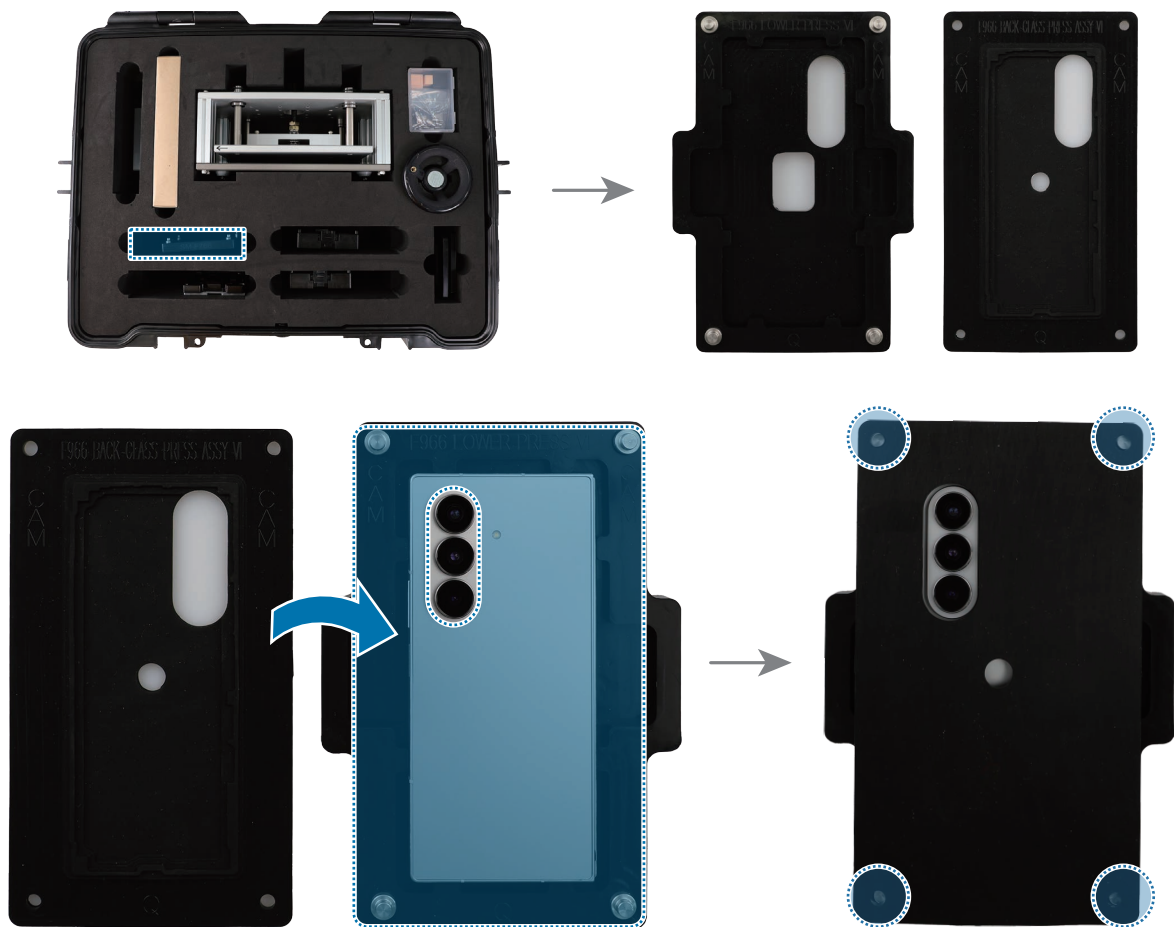
✔ You can change the stamp and roller with one handle.



Using the rental toolkit


 If you have disassembled and assembled the back cover to repair other parts, you can use the rental toolkit to press the back cover further.

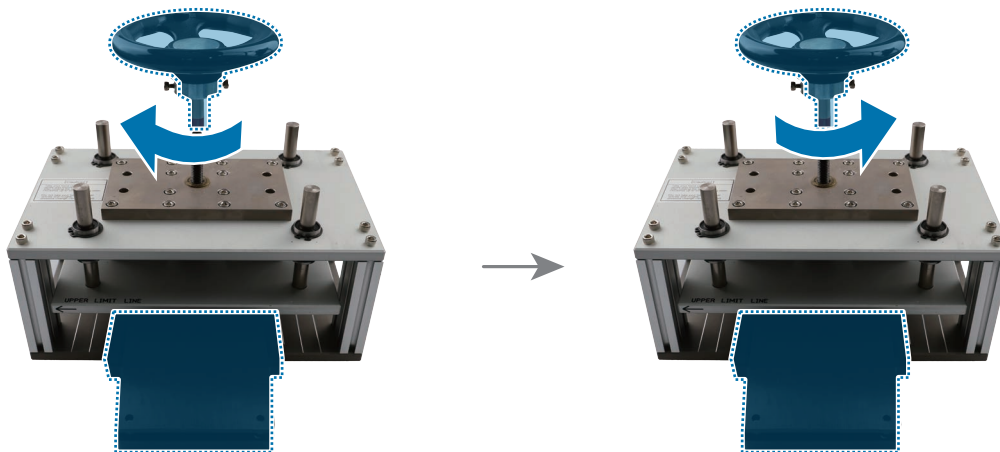
- 1 Place the device on the back cover/cover screen bottom press tray with the back cover facing upwards. Cover the back cover press tray on the back cover/cover screen bottom press tray. Then, press the steal lock button and check if the tool is closed completely with steal lock.



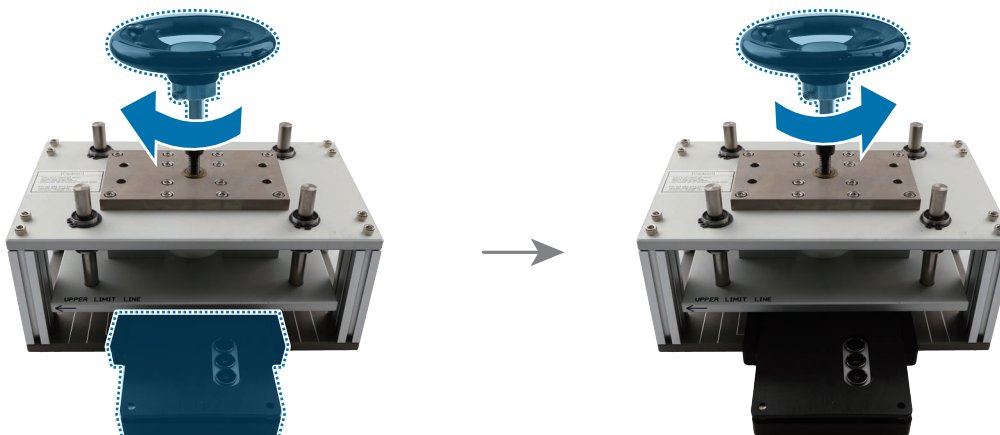
- 2 Position the top 1/2 of the back cover press tray with the device lengthwise in the centre of the press fixture. Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 30 seconds. When the press is completed after 30 seconds, rotate the torque limit handle to the anticlockwise and remove the tray from the press fixture.

 Keep your hands out of the press fixture to avoid mechanical pinching and injury.

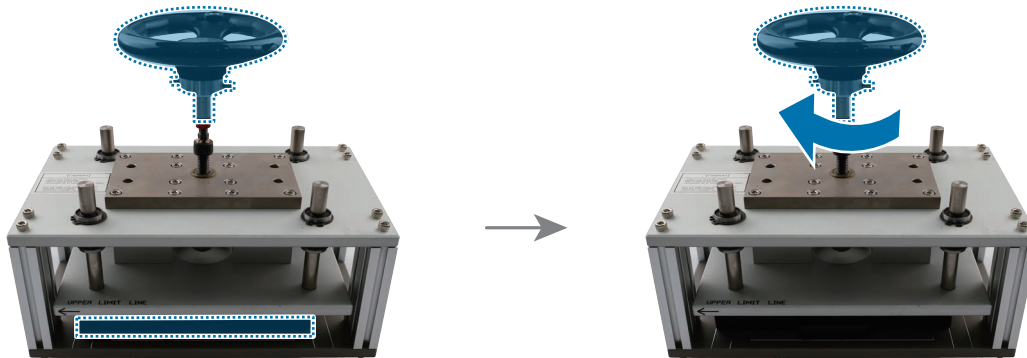
 When you reach the required maximum force (1 N), a sound is made from the handle if you turn the handle.



- 3 Upside down the tray to show the main camera. Position the bottom 1/2 of the back cover press tray with the device lengthwise in the centre of the press fixture. Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 30 seconds. When the press is completed after 30 seconds, rotate the torque limit handle to the anticlockwise and remove the tray from the press fixture.



- 4 Position the entire back cover press tray with the device horizontally in the centre of the press fixture. Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 30 seconds.



- 5 Pull out the tray and remove the tray from the press fixture. Then, open the back cover press tray.





Cover Screen Press

 Appropriate tool for pressing depends on the parts repaired.

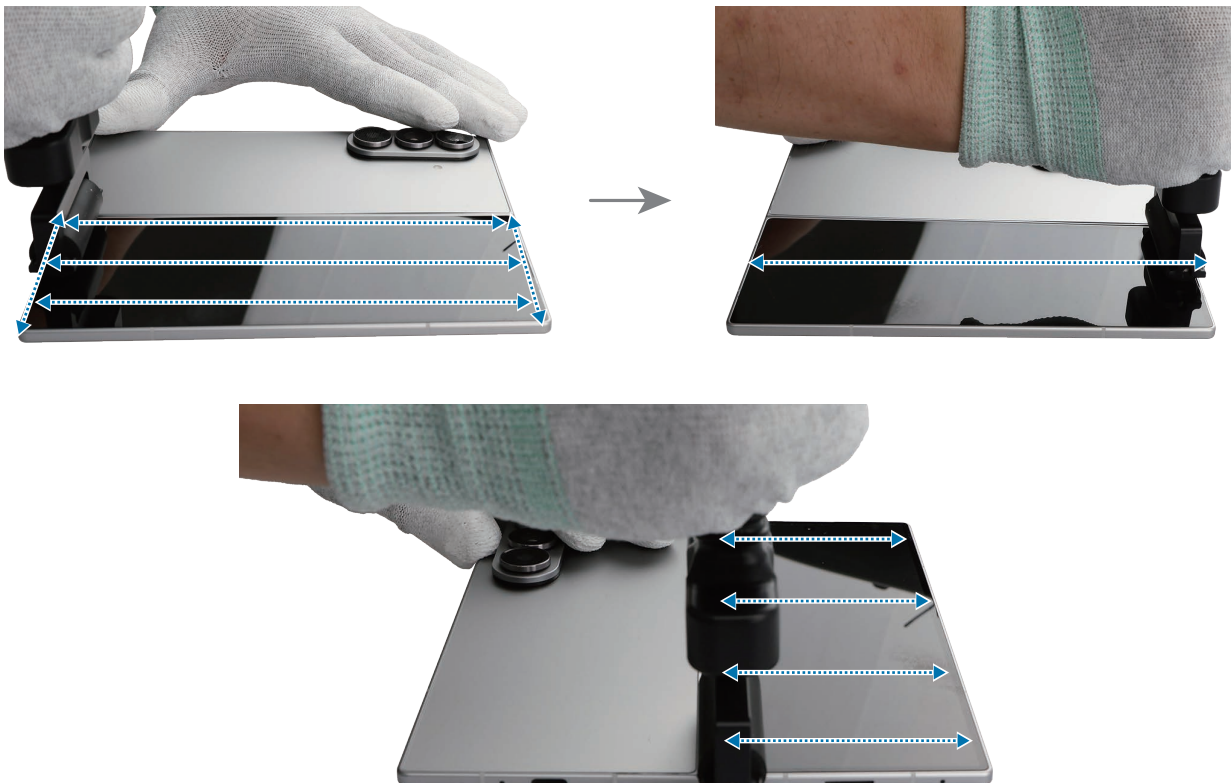
Using the roller

 Keep your hands out of the roller.


-  • Be sure to swipe while the spring of the roller is pressed.
- As the cover screen can be damaged by excessive force, be careful not to damage the cover screen.
- Be sure to place the surface of the roller horizontally on the cover screen.

 If you have disassembled and assembled the cover screen to repair the battery, you can use the bundled roller to press the cover screen further.

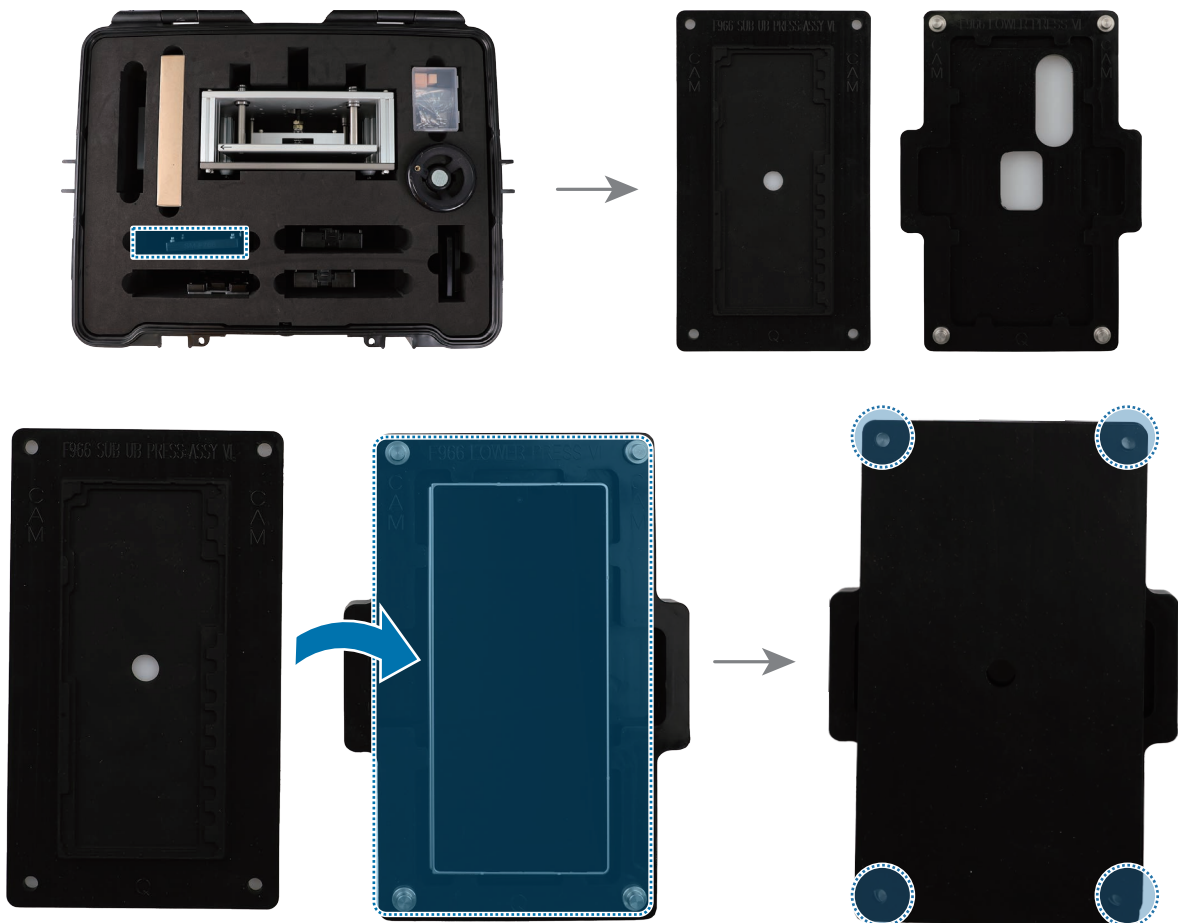
With the roller's spring pressed, use the press roller to rub the edges of the cover screen 5 times from bottom to top. Repeat this 5 times at all edges of the cover screen except for the camera part so that the cover screen is pressed well.



Using the rental toolkit


 If you have disassembled and assembled the cover screen to repair other parts, or repaired the single cover screen, you can use the rental toolkit to press the cover screen further.

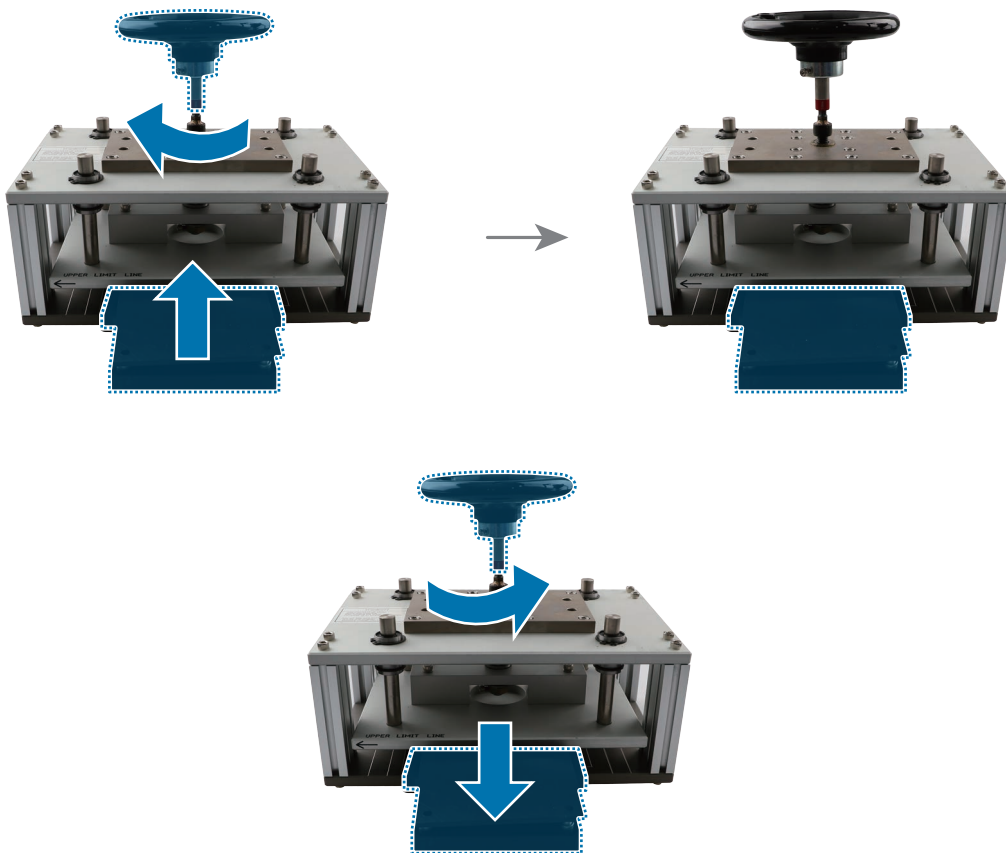
- 1 Place the device on the back cover/cover screen bottom press tray with the back cover facing downwards. Cover the cover screen press tray on the back cover/cover screen bottom press tray. Then, press the steal lock button and check if the tool is closed completely with steal lock.



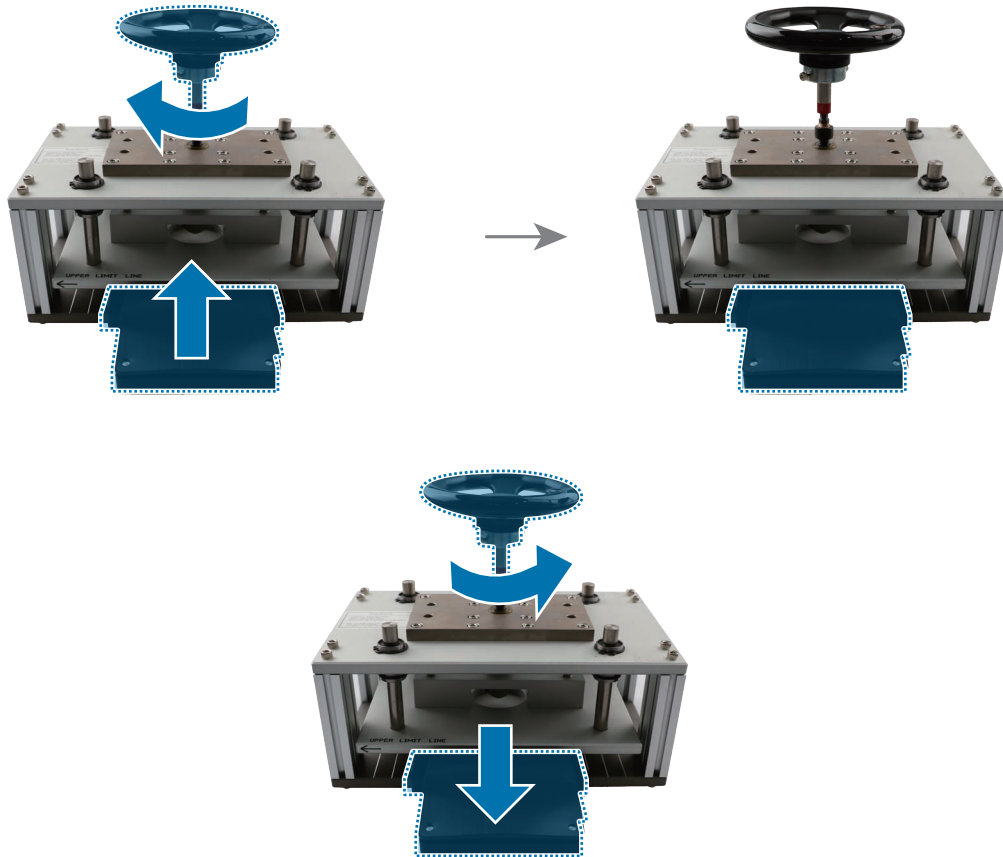
- 2 Position the top 1/2 of the cover screen press tray with the device lengthwise in the centre of the press fixture. Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 30 seconds. When the press is completed after 30 seconds, rotate the torque limit handle to the anticlockwise and remove the tray from the press fixture.

 Keep your hands out of the press fixture to avoid mechanical pinching and injury.

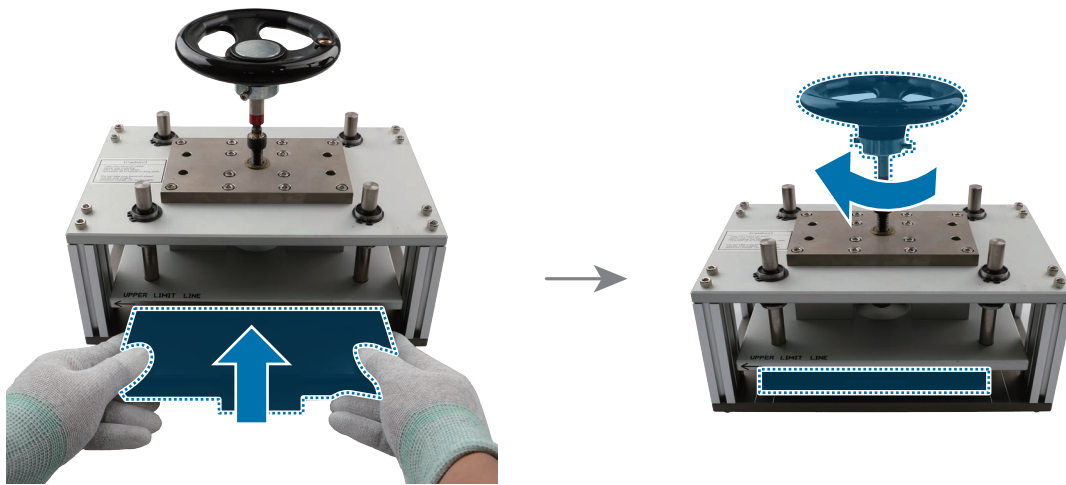
 When you reach the required maximum force (1 N), a sound is made from the handle if you turn the handle.



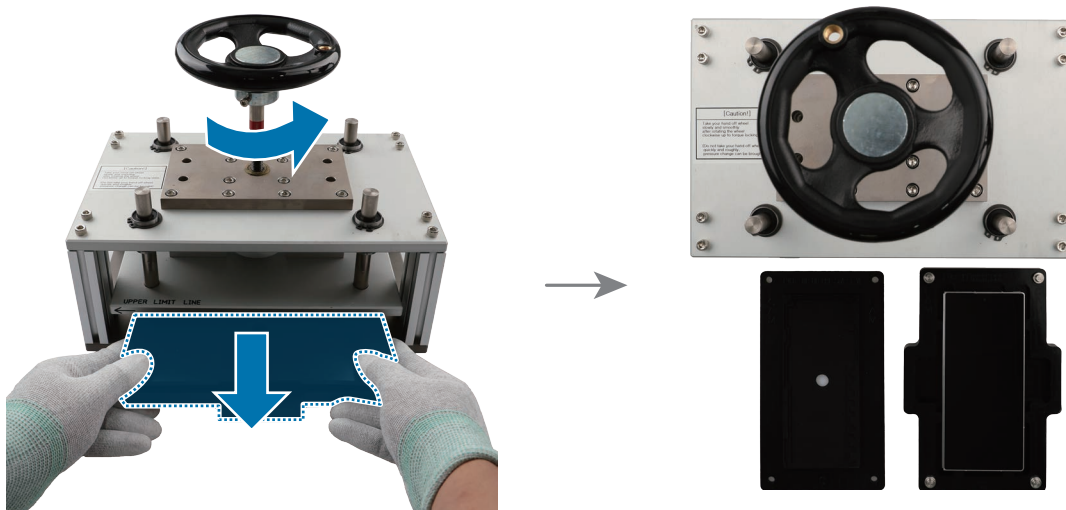
- 3 Position the bottom 1/2 of the cover screen press tray with the device lengthwise in the centre of the press fixture. Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 30 seconds. When the press is completed after 30 seconds, rotate the torque limit handle to the anticlockwise and remove the tray from the press fixture.



- 4 Position the entire cover screen press tray with the device horizontally in the centre of the press fixture. Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 30 seconds.



- 5 Pull out the tray device from the press fixture. Then, open the cover screen press tray.

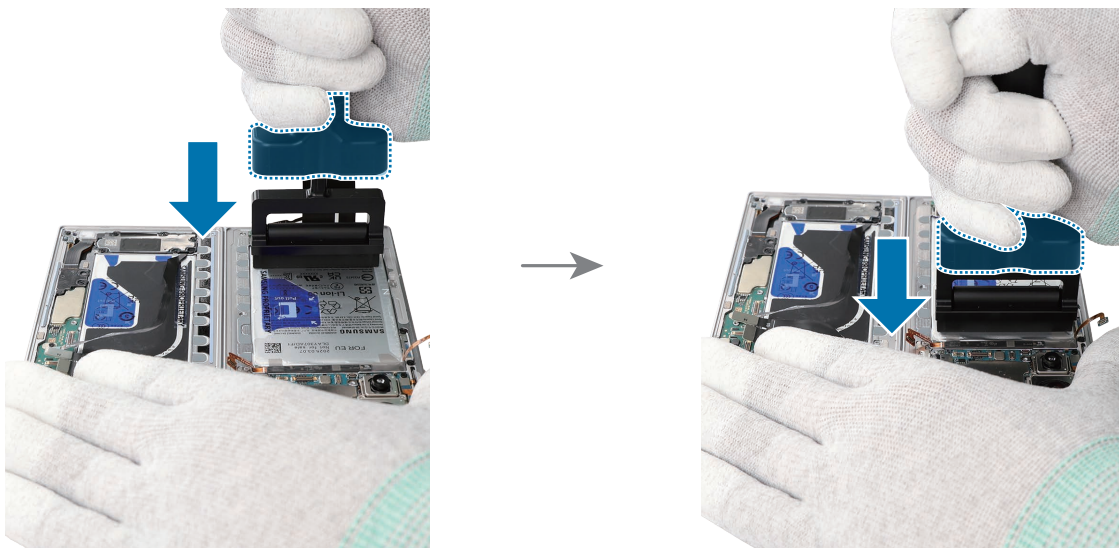


Battery Press

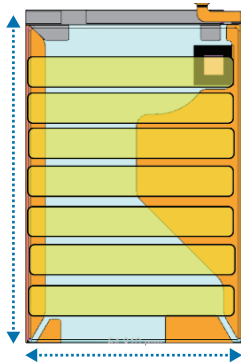
- ⚠ Keep your hands out of the stamp.
- ⚠
 - Be sure to swipe while the spring of the stamp is pressed.
 - As the battery can be damaged by excessive force, be careful not to damage the battery.
 - Be sure to place the surface of the stamp horizontally on the battery.
- ✍
 - Appropriate tool for pressing depends on the parts repaired.
 - If you have repaired the battery, you can use the bundled stamp to press the battery further.

1 Press down the 7 battery points a little bit strongly with the battery stamp till the upper touches to the lower for 5 seconds so that the battery fits and attached well.



- ⚠
 - Be careful not to bend the battery.
 - Be careful not to damage the battery.
- ⚠ Be careful not to damage the near components.

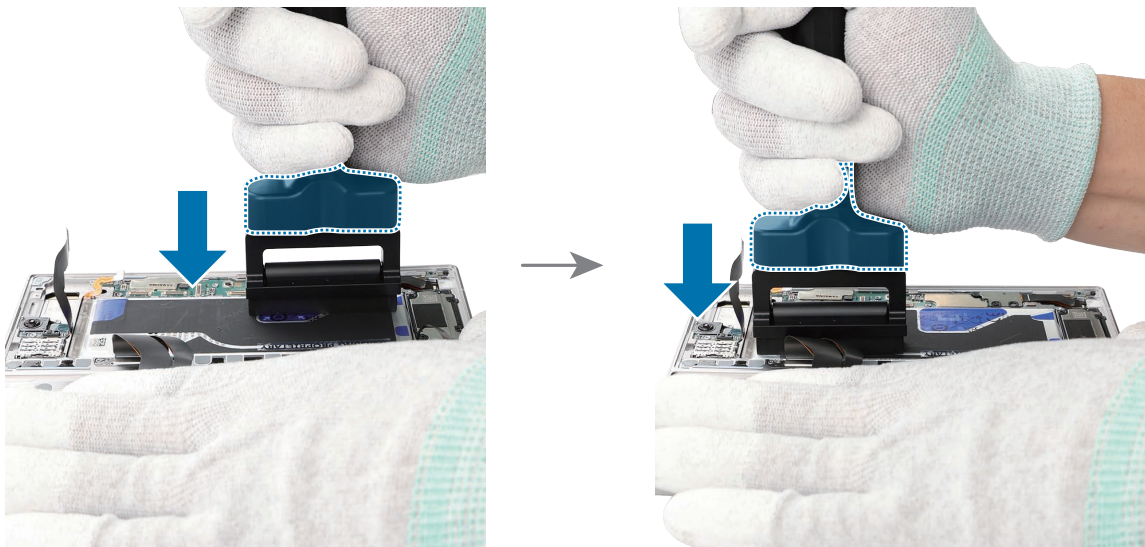


-  7 points of the main battery where should be pressed

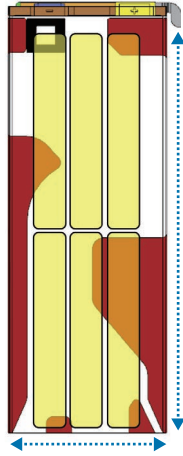


- 2 Press down the 6 battery points a little bit strongly with the battery stamp till the upper touches to the lower for 5 seconds so that the battery fits and attached well.

-  • Be careful not to bend the battery.
 - Be careful not to damage the battery.
-  Be careful not to damage the near components.



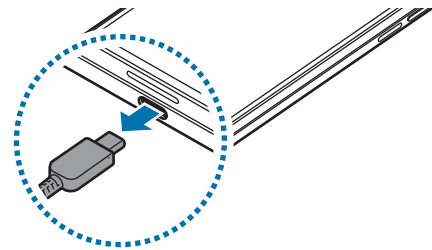
 6 points of the sub battery where should be pressed



Directive 2012/19/EU Annex VII Components

Directive 2012/19/EU Annex VII requirements apply to the following components.

Component	Samsung Part Name	Removal Instructions
Printed circuit board if the surface is greater than 10 square centimetres	Main Board (PBA)	Check for the disassembly steps of the Rear Camera and separate the main board.
Liquid crystal display of a surface greater than 100 square centimetres and all those back-lighted with gas discharge lamps	Main Screen	Check for the disassembly steps of the Main Screen and separate the screen.
Battery	Battery	Check for the disassembly steps of the Battery and separate the battery.
External electric cable	USB Cable	Disconnect the USB cable.



SAMSUNG

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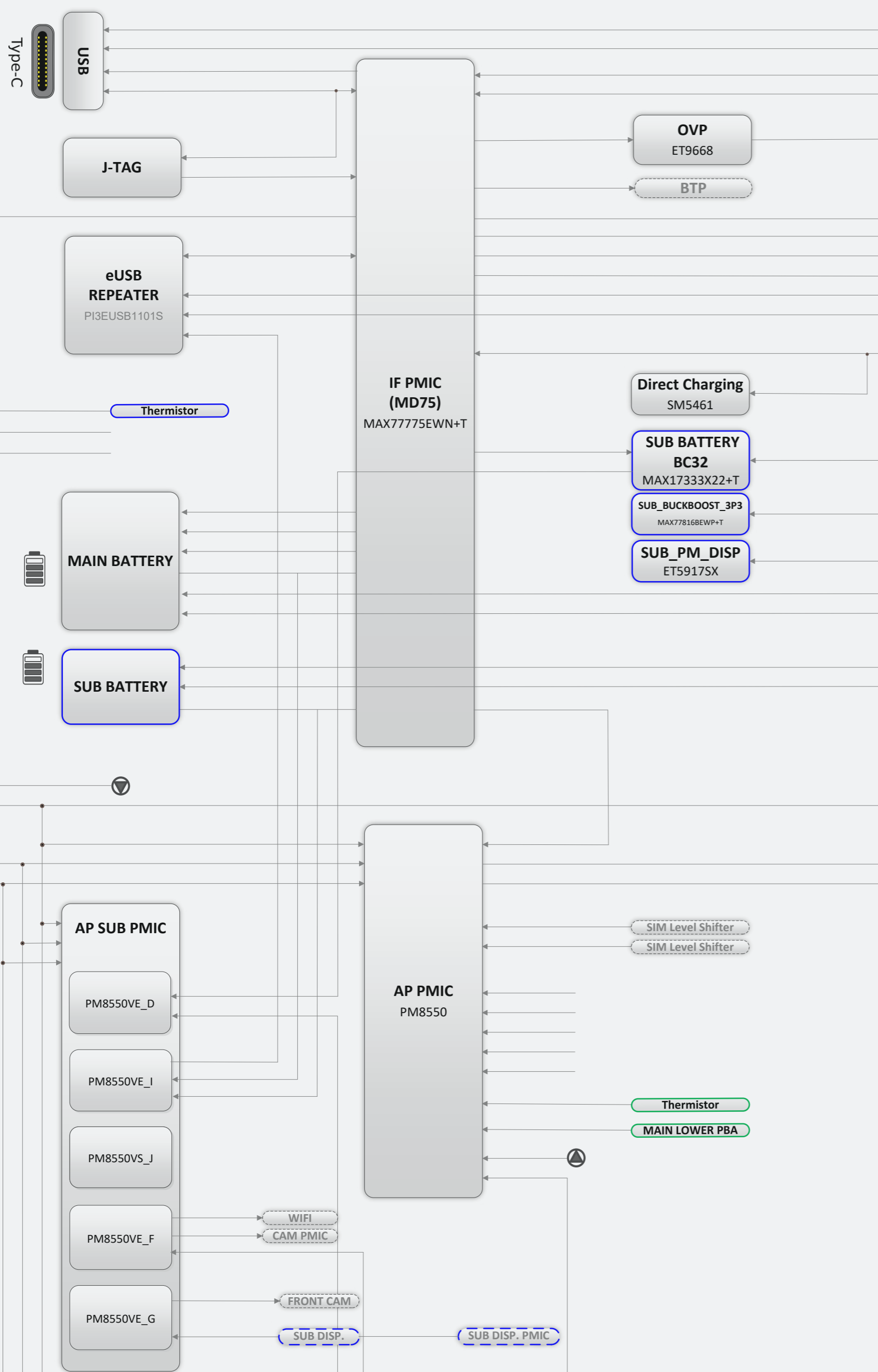
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76.8MHz

MEMORY

UFS
THGJFMT1E45BATV
[UFS 4.0 256 GB]

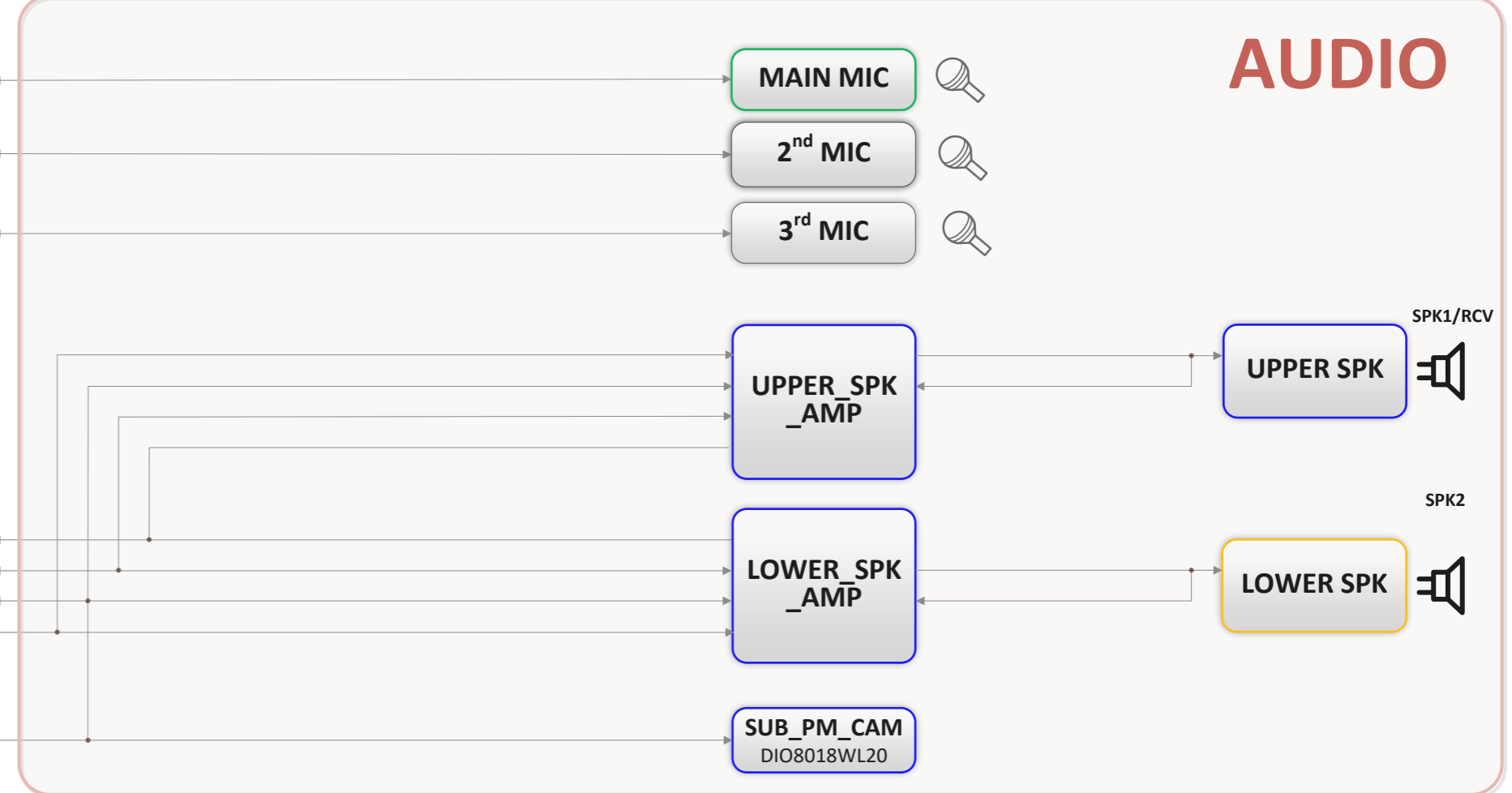
POWER



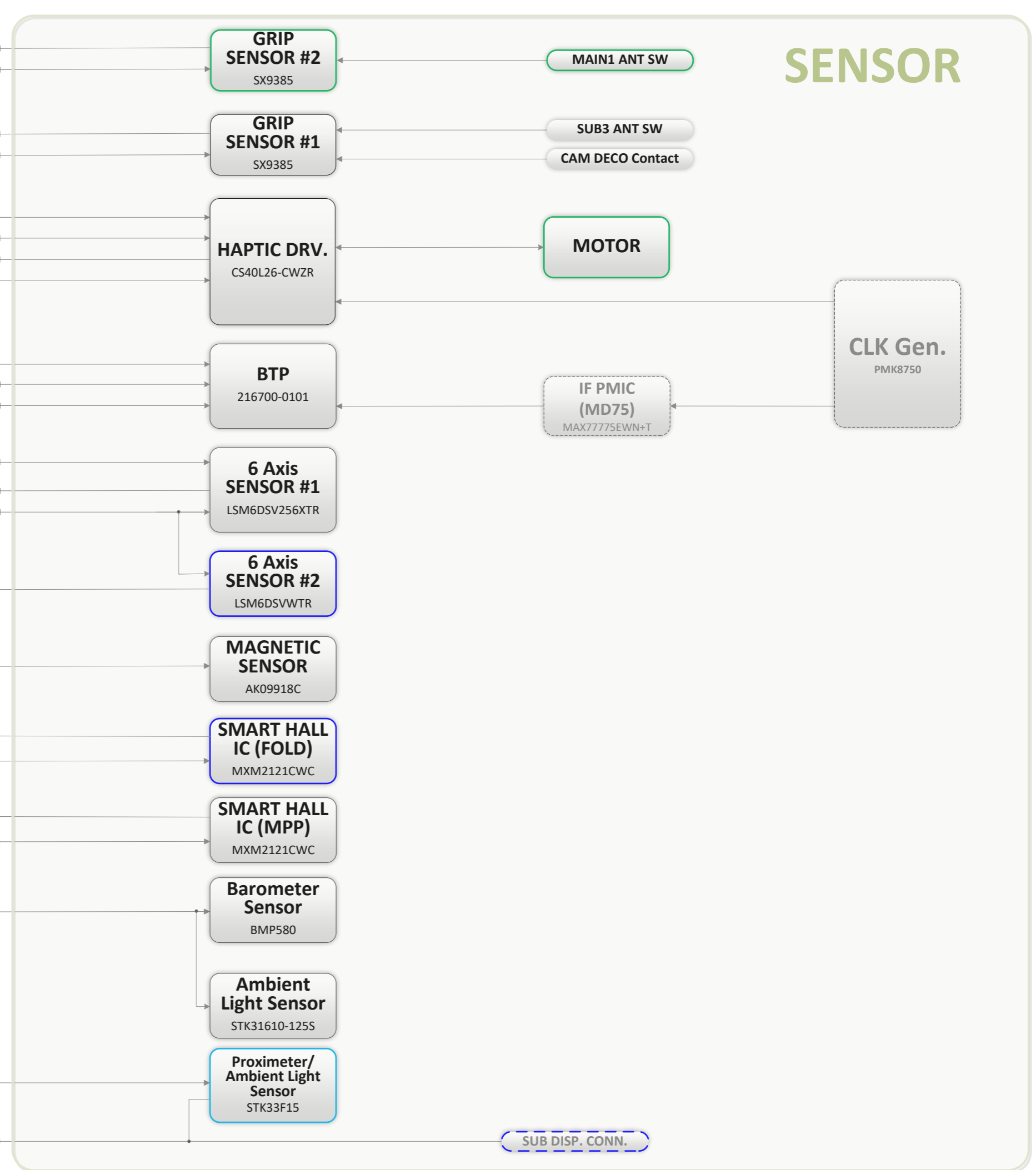
AP SM8750

PoP LPDDR5X SEC 12GB HKMG

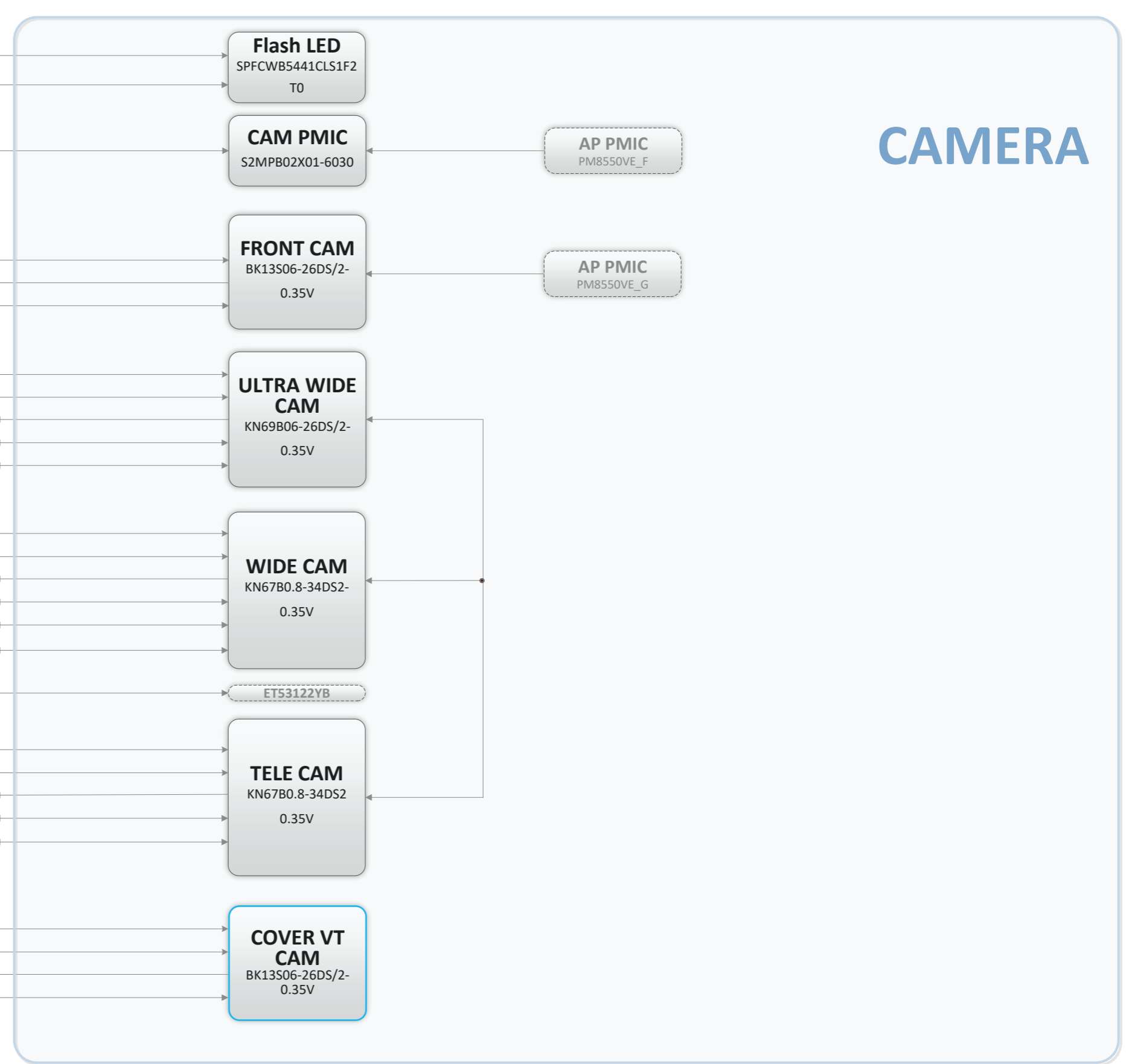
AUDIO



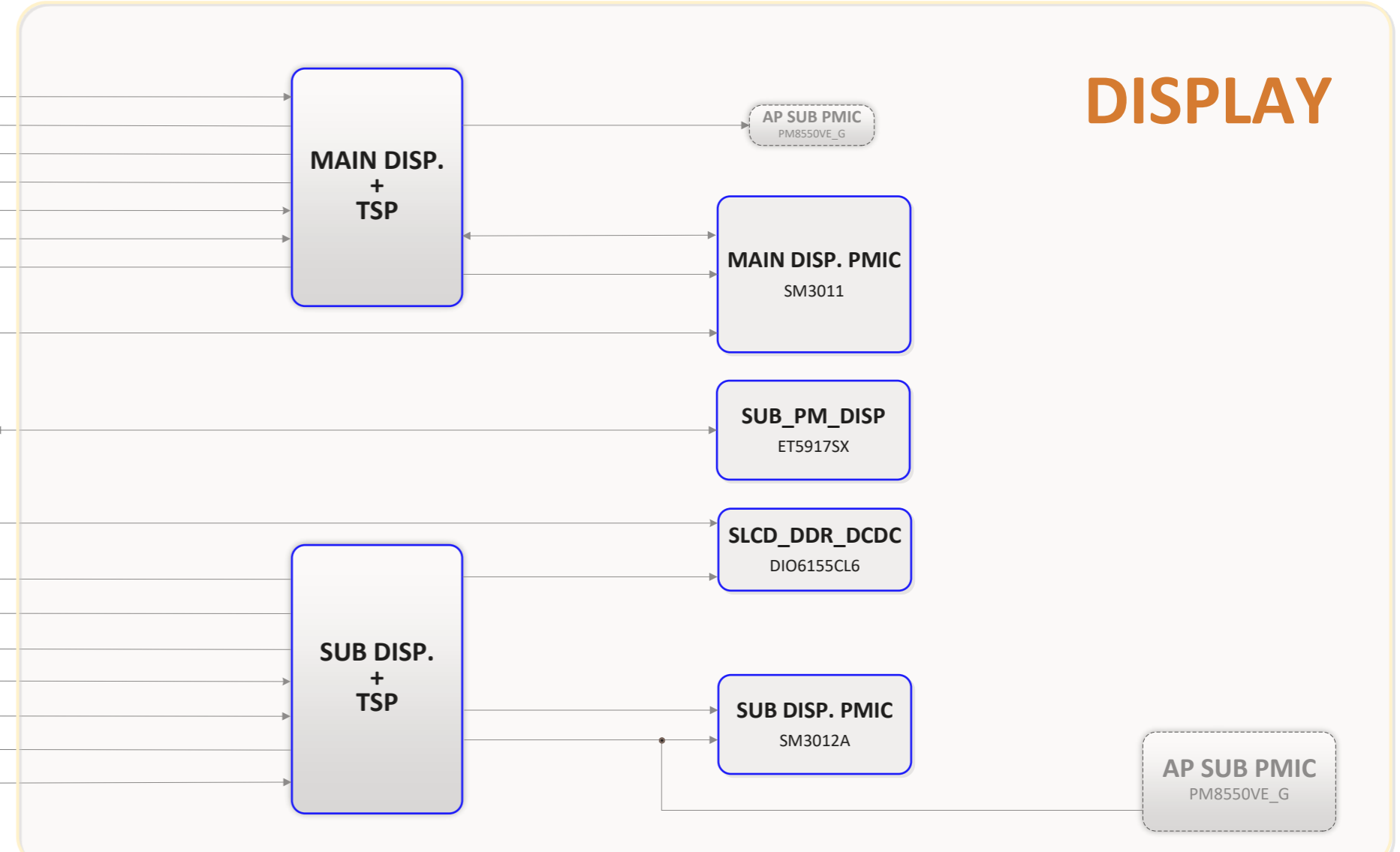
SENSOR



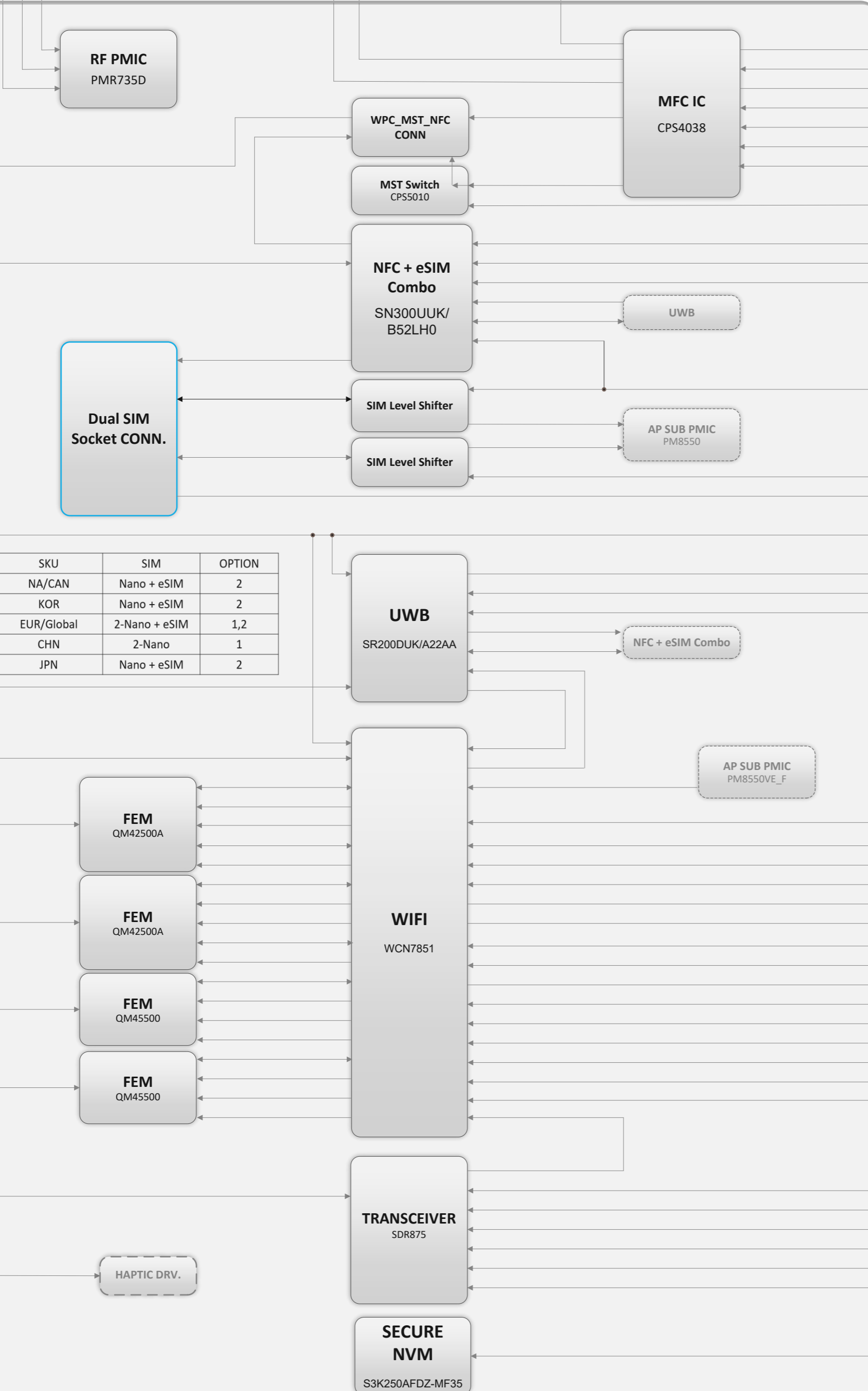
CAMERA



DISPLAY



SIM/BT/NFC/SNVM



SKU	SIM	OPTION
NA/CAN	Nano + eSIM	2
KOR	Nano + eSIM	2
EUR/Global	2-Nano + eSIM	1,2
CHN	2-Nano	1
JPN	Nano + eSIM	2

CLK Gen. PMK8750