

SAMSUNG

REPAIR GUIDE

SM-S921B

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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.

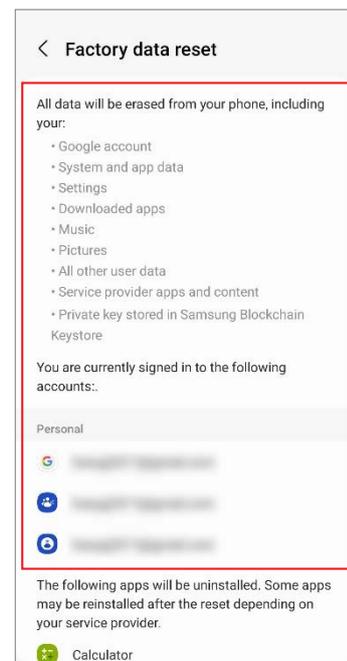
Performing a Factory Data Reset

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.

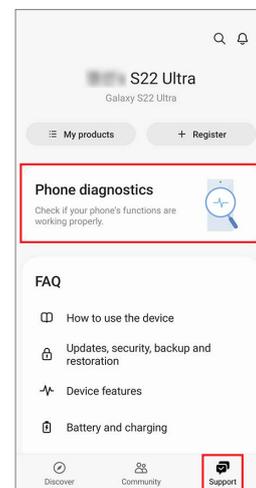
Device Diagnostics

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.

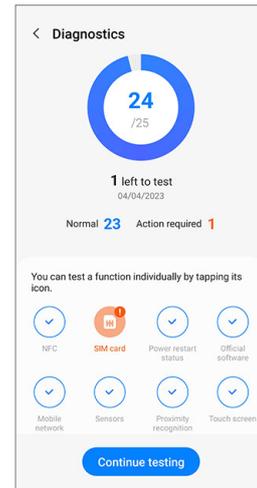


3 Tap **Test all**.

The device performs a test on all items.

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

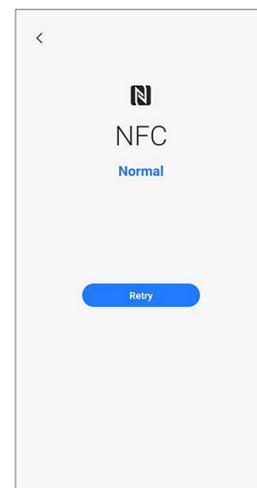
- Tick mark: Working normally
- Exclamation mark: Needs further inspection
- The test proceeds automatically, but you may need to follow the on-screen instructions depending on the test item. Keep an eye on the screen during testing to ensure smooth progress.
- If the exclamation mark appears on any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



Test Items

NFC

- Function: Check whether your device can read near field communication (NFC) tags that contain information about products.
- Provided information
 - Status: View whether the feature is working normally.

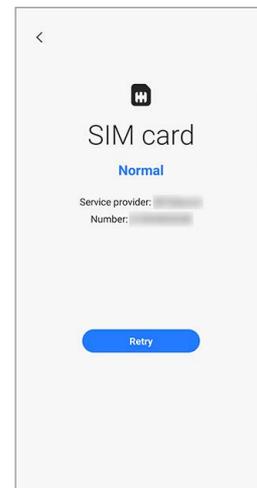


SIM card

- Function: Check whether the SIM card is working normally.
- Provided information
 - Status: View whether the feature is working normally.
 - Service provider: View the carrier.
 - Number: View the phone number.

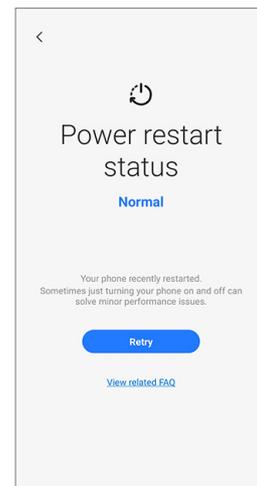


If the test result is not **Normal**, remove the SIM card from the SIM card tray and replace it. If possible, try again with another SIM card.



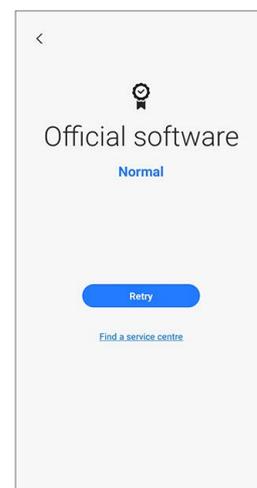
Power restart status

- Function: Check your device's restart history.
- Provided information
 - Status: View whether the feature is working normally.
 - FAQ: View frequently asked questions.
 - History: View your device's restart history.



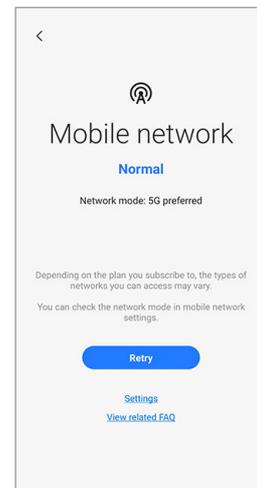
Official software

- Function: Check whether the software is working normally.
- Provided information
 - Status: View whether the feature is working normally.
 - Service information: View the Samsung Service Centre location.



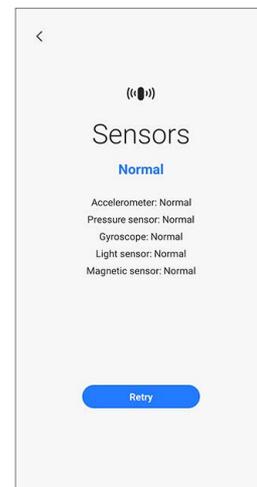
Mobile network

- Function: Check whether your mobile network is working normally.
- Provided information
 - Status: View whether the feature is working normally.
 - Settings: Configure your mobile network settings.
 - FAQ: View frequently asked questions.



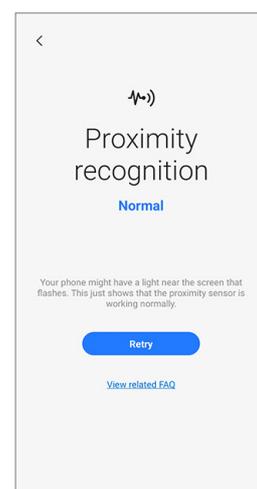
Sensors

- Function: Check whether the sensors are working normally.
- Provided information
 - Status: View whether the feature is working normally.
 - Sensor types: View the status of each sensor.



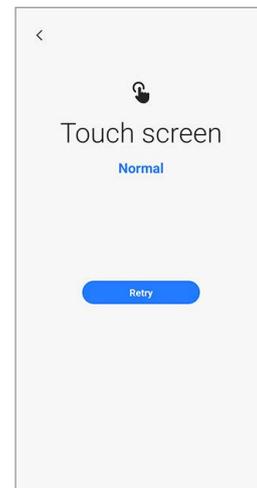
Proximity recognition

- Function: Check whether the proximity recognition feature is working normally.
- Provided information
 - Status: View whether the feature is working normally.
 - FAQ: View frequently asked questions.



Touch screen

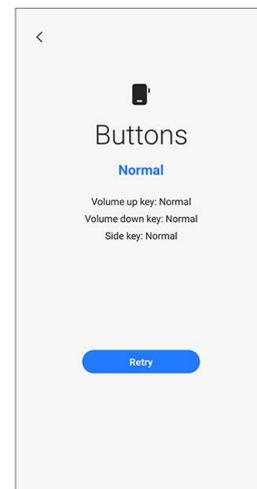
- Function: Check whether the touchscreen is working normally.
- Provided information
 - Status: View whether the feature is working normally.



Buttons

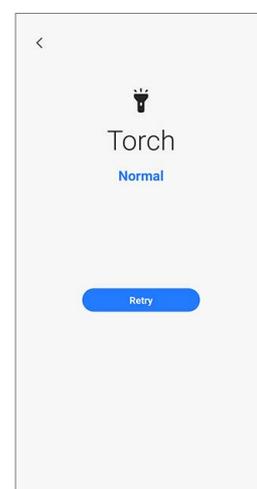
- Function: Check whether the buttons are working normally.
- How to check:
Press the buttons by following the directions on the screen.
- Provided information
 - Status: View whether the feature is working normally.
 - Button types: View the status of each button.

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



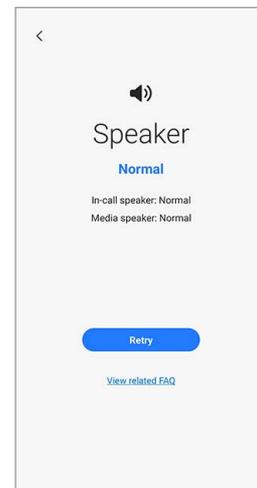
Torch

- Function: Check whether the torch is working normally.
- Provided information
 - Status: View whether the feature is working normally.



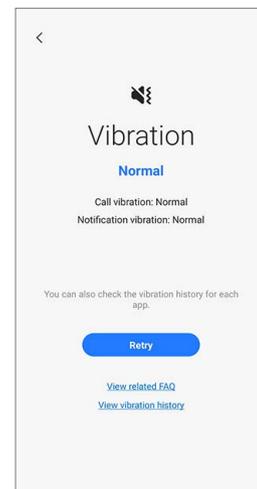
Speaker

- Function: Check whether the speakers are working normally.
- Provided information
 - Status: View whether the feature is working normally.
 - Speaker types: View the status of each speaker.
 - FAQ: View frequently asked questions.



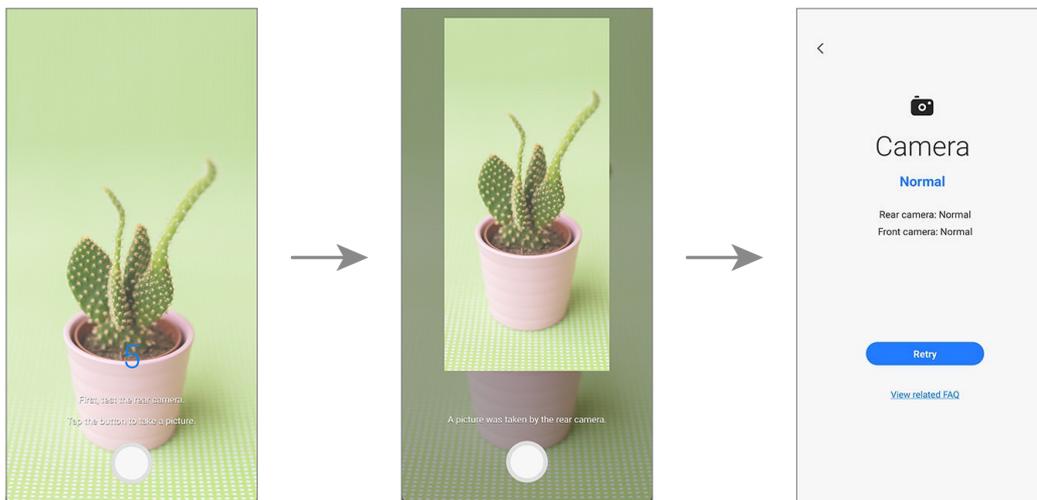
Vibration

- Function: Check whether the vibration feature is working normally.
- Provided information
 - Status: View whether the feature is working normally.
 - Vibration types: View the status of each type of vibration.
 - FAQ: View frequently asked questions.
 - History: View the vibration history.



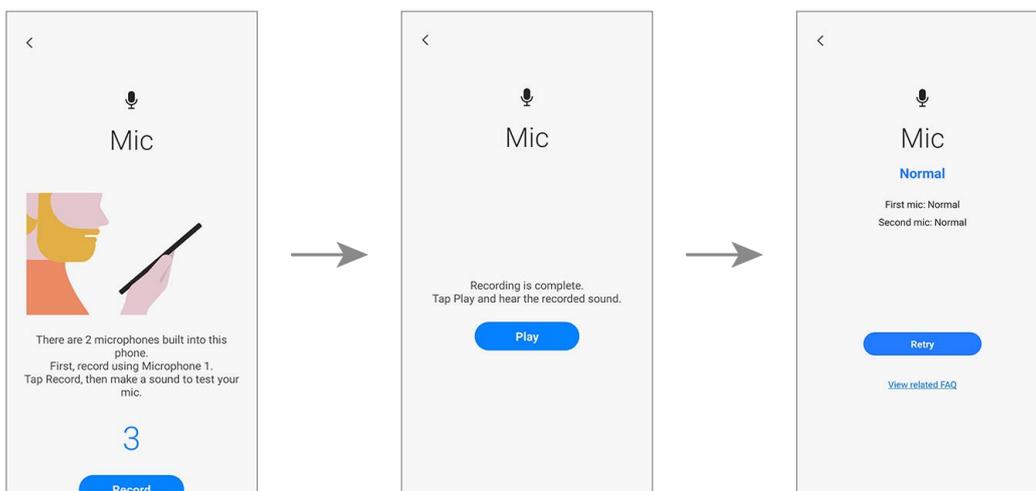
Camera

- Function: Check whether the rear and front cameras are working normally.
 - How to check:
Tap the camera button to test the rear and front cameras.
The picture that was taken will be displayed to check the quality of the pictures.
 - Provided information
 - Status: View the status whether the feature is working normally.
 - Camera types: View the status of each camera.
 - FAQ: View frequently asked questions.
-  To test this more accurately, check if the camera is obstructed by foreign objects, the case, or protective film.



Mic

- Function: Check whether the microphone is working normally.
 - How to check:
 - 1) Tap **Record** and say something for the recording.
 - 2) When the recording is finished, tap **Play** and select a button according to the question.
 - Provided information
 - Status: View whether the feature is working properly.
 - Mic types: View the status of each mic.
 - FAQ: View frequently asked questions.
-  • 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.

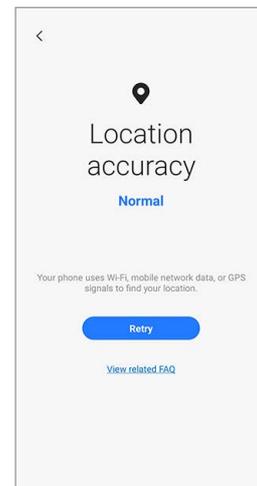


Location accuracy

- Function: Check whether the location accuracy is working normally.
- How to check:
Tap **Start**.
- Provided information
 - Status: View whether the feature is working normally.
 - FAQ: View frequently asked questions.



The results might be more accurate when you test outside.

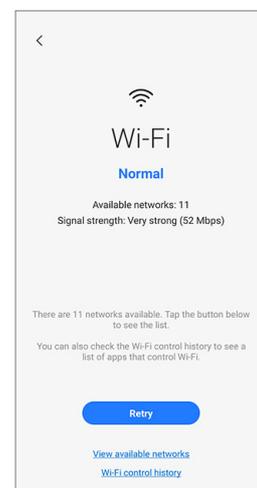


Wi-Fi

- Function: Check whether Wi-Fi can search for Wi-Fi routers.
- Provided information
 - Status: View whether the feature is working normally.
 - Available networks: View the number of available networks.
 - Signal strength: View the signal strength of the connected Wi-Fi router.
 - Networks: View available networks.
 - History: View the Wi-Fi control history.



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

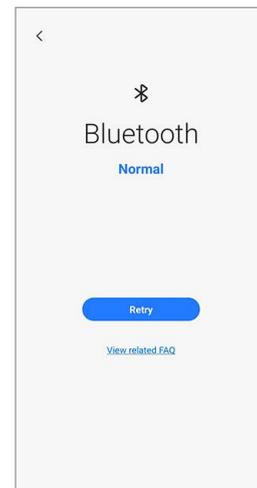


Bluetooth

- Purpose: Check whether Bluetooth can search for other Bluetooth devices.
- Provided information
 - Status: View whether the feature is working normally.
 - FAQ: View frequently asked questions.



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

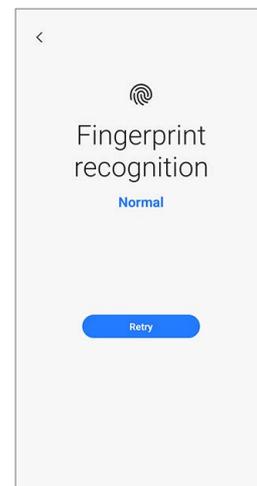


Fingerprint recognition

- Purpose: Check whether the fingerprint recognition sensor is working.
- How to check:
Place your finger on the fingerprint recognition sensor.
- Provided information
 - Status: View whether the feature is working normally.



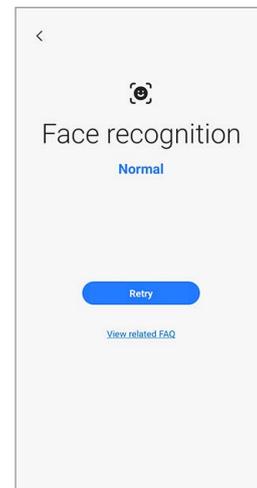
To test this feature, your fingerprint must be registered.



Face recognition

- Purpose: Check whether the face recognition sensor is working.
- How to check:
Look at the screen.
- Provided information
 - Status: View whether the feature is working normally.
 - FAQ: View frequently asked questions.

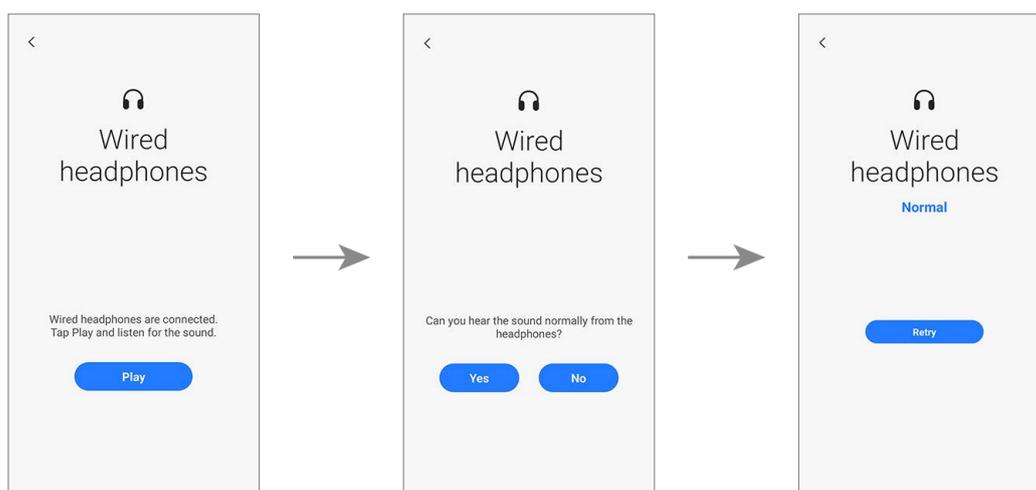
 To test this feature, your face must be registered.



Wired headphones

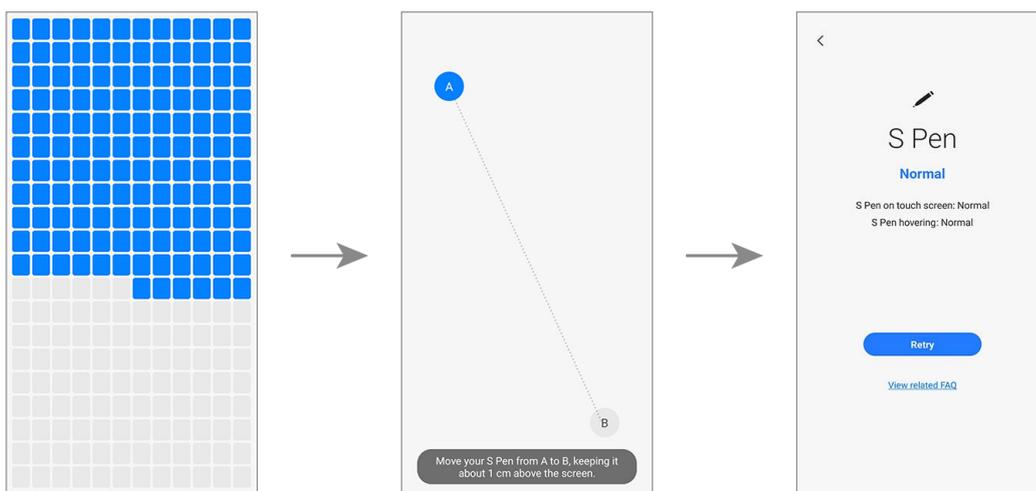
- Purpose: Check whether the headphone jack recognises the headphones normally.
- How to check:
 - 1) Connect headphones to your device.
 - 2) Tap **Play** and listen for the sound.
 - 3) Answer the question using the buttons.
- Provided information
 - Status: View whether the feature is working normally.

 To test this feature, you must connect headphones.



S Pen

- Purpose: Check whether the S Pen is recognised in all areas of the touchscreen.
- How to check:
 - 1) Tap all the rectangles on the screen with the S Pen.
The tapped or dragged rectangles will turn blue.
 - 2) Hover the S Pen over the screen and move from A to B.
The blue circle will move along with the S Pen.
- Provided information
 - Status: View whether the feature is working normally.
 - S Pen features: View the status of S Pen features.
 - FAQ: View frequently asked questions.
-  Make sure that the screen is clean to get more accurate test results.
- This test is only available for the S Pen supported models.

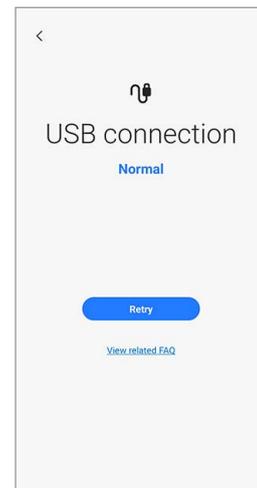


USB connection

- Purpose: Check whether the multipurpose jack recognises the USB cable normally.
- How to check:
Connect any USB cable to your device.
- Provided information
 - Status: View whether the feature is working normally.
 - FAQ: View frequently asked questions.



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

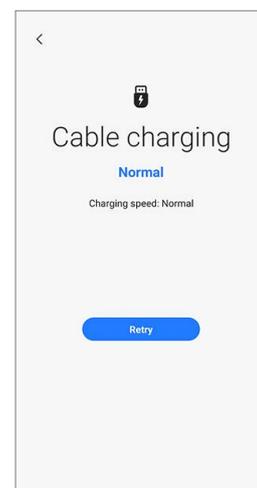


Cable charging

- Purpose: Check whether the multipurpose jack recognises the charger normally.
- How to check:
Connect a charger to your device.
- Provided information
 - Status: View whether the feature is working normally.
 - Charging speed: View the charging speed according to the charger you connected.



Use only Samsung-approved chargers.

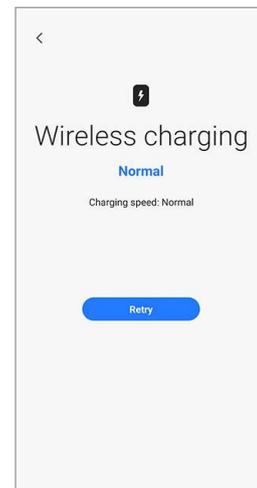


Wireless charging

- Purpose: Check whether the wireless charging feature is working normally.
- How to check:
Put your device on a wireless charger.
- Provided information
 - Status: View whether the feature is working normally.
 - Charging speed: View the charging speed according to the wireless charger you put your device on.

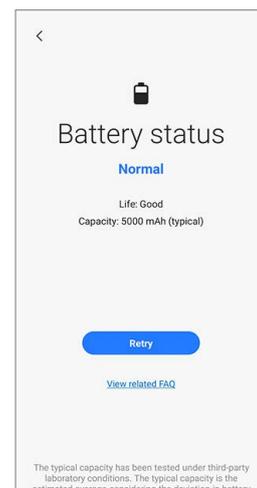


Use only Samsung-approved wireless chargers.



Battery status

- Function: Check the battery values and analysis.
- Provided information
 - Status: View whether the feature is working normally.
 - Life: View the remaining battery life (measured by comprehensive battery values).
 - Capacity: View the battery capacity.
 - FAQ: View frequently asked questions.



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.

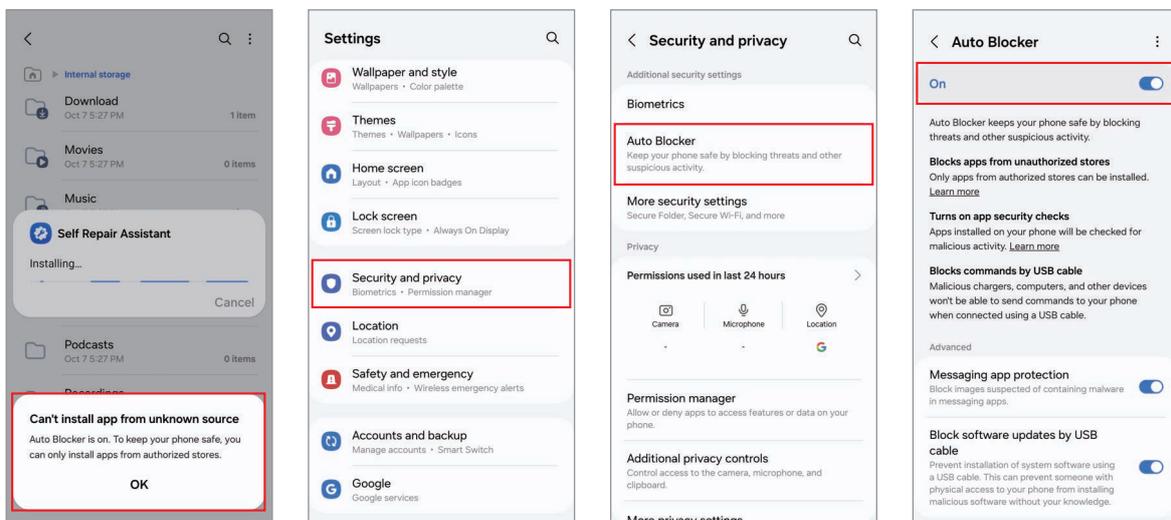
	Screen	Battery	Back Glass	Charging Port	Speaker
Optical Fingerprint Cal.	Yes	No	No	No	No
Range Sensor Cal.	Yes	Yes	Yes	Yes	Yes
Battery Cycle Resets.	No	Yes	No	No	No
Touch Screen Panel Cal.	Yes	No	No	No	No
Speaker Cal.	No	No	No	No	Yes
Under-display Camera Cal.	Yes	No	No	No	No
Digital Hall Sensor Cal.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

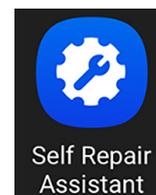
Using the Self Repair Assistant App

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.

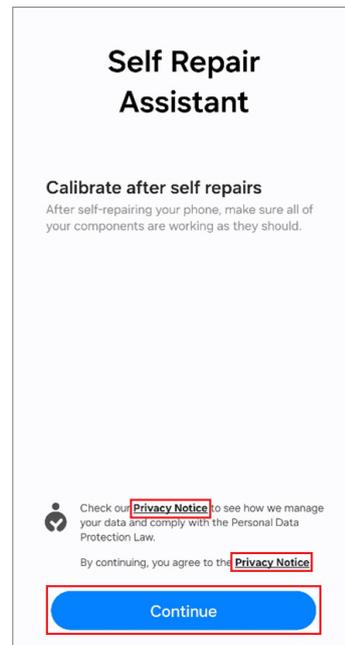
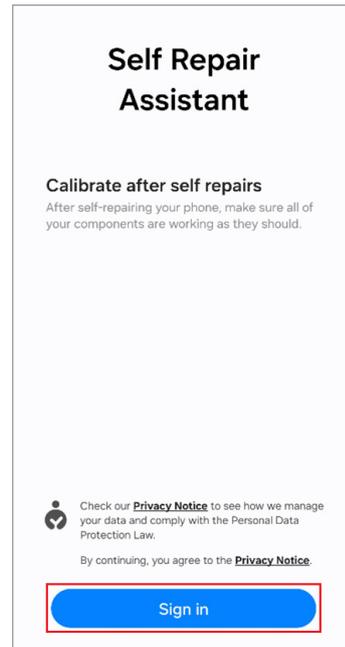


2 Launch the **Self Repair Assistant** app.

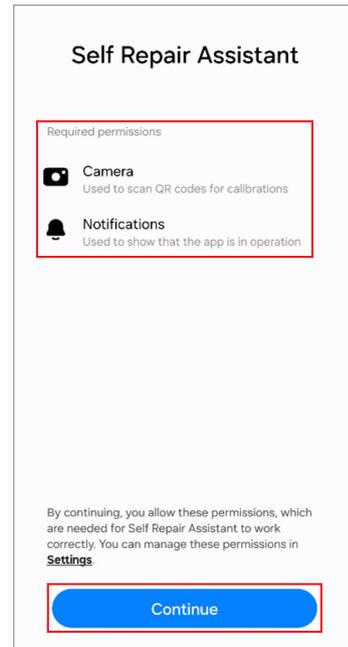


3 Read Privacy Notice and tap **Continue**.

- 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.



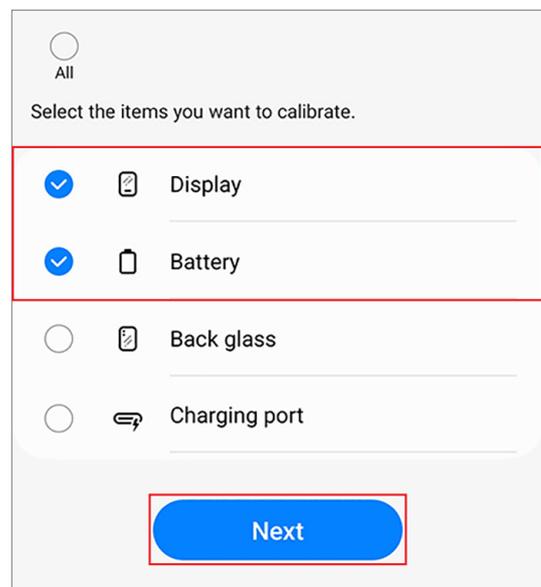
4 Check permissions and tap **Continue**.



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

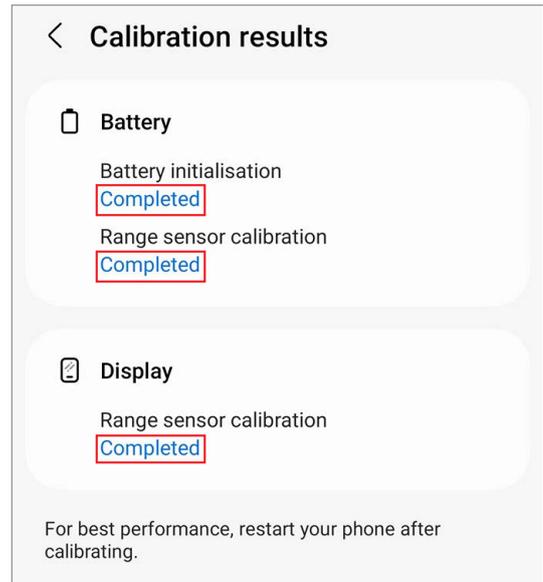
This calibration needs to be done in the dark. Move to a dark room before starting this calibration.

Start

Skip

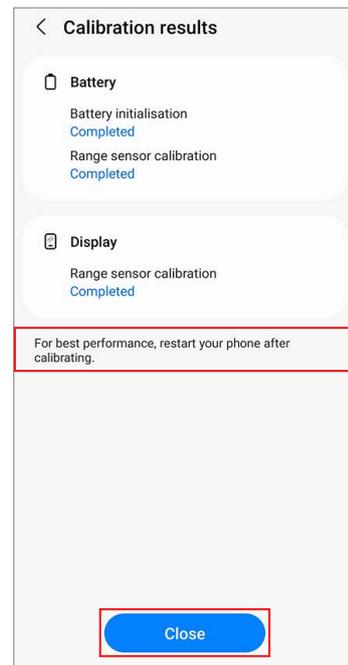
7 Check the results of each calibration item.

- **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

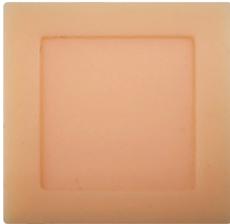
Whenever the screen is replaced, the optical fingerprint sensor must be calibrated to guarantee optimised fingerprint sensor performance for devices that have it.

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

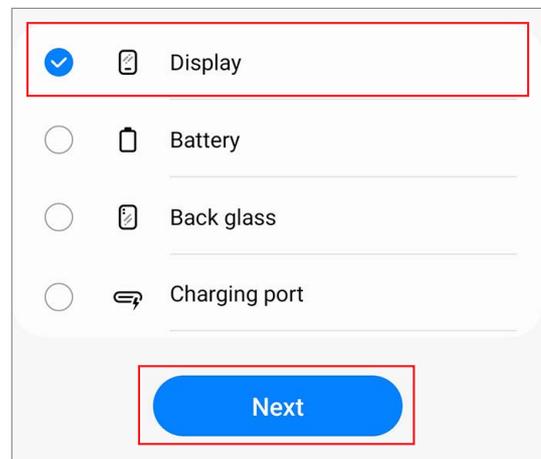


1 Launch the **Self Repair Assistant** app.

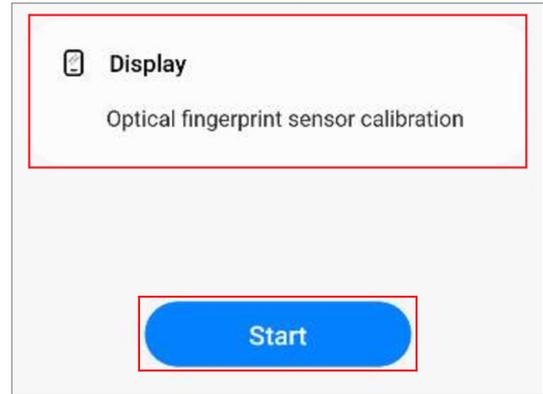
2 Tap **Display** → **Next**.



- 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.

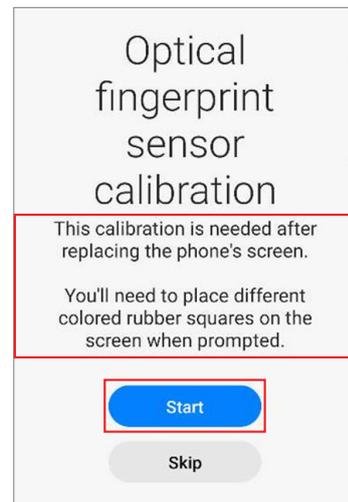


- 3 Check the part and calibration and then tap **Start**.



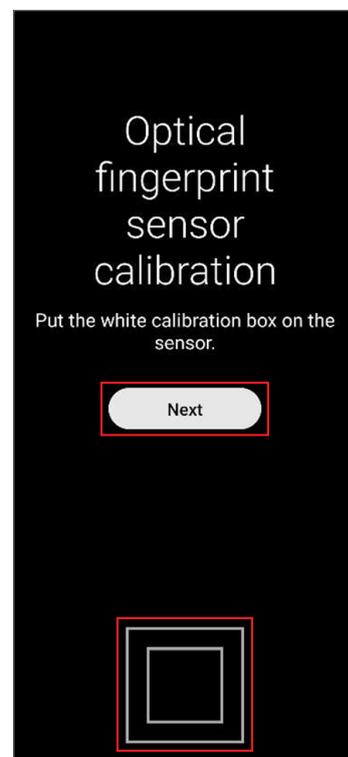
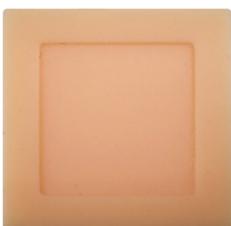
- 4 Read the on-screen instructions and tap **Start**.

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



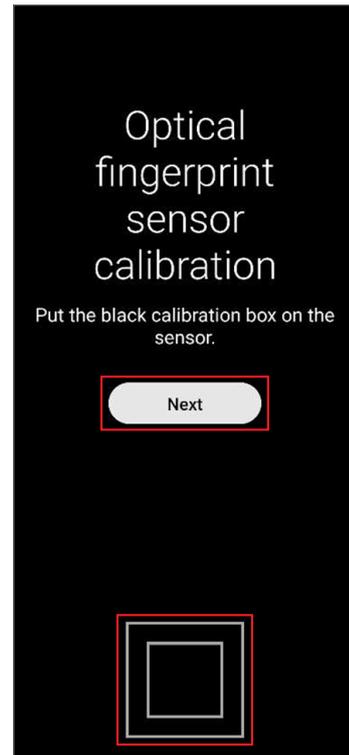
- 5 Put the white calibration box on the sensor area (below the square side) and push the rubber by applying force with your finger. Tap **Next** and keep pushing the rubber with your finger until you see the success message.

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



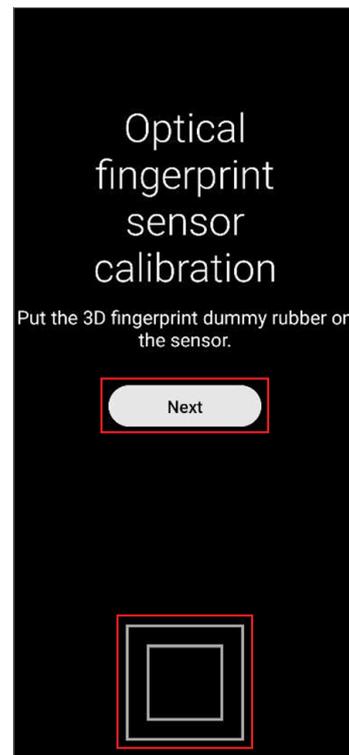
6 Put the black calibration box on the sensor area (below the square side) and push the rubber by applying force with your finger. Tap **Next** and keep pushing the rubber with your finger until you see the success message.

-  • 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.



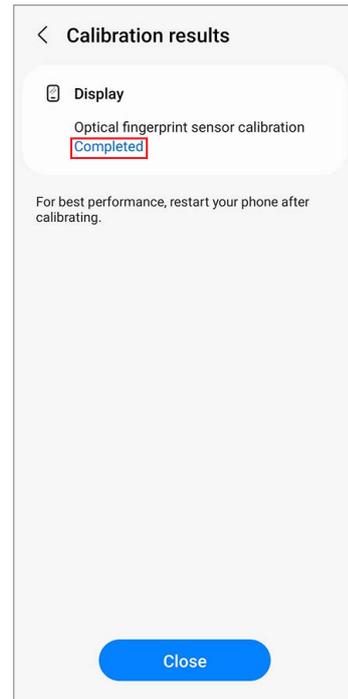
7 Put the 3D fingerprint dummy rubber on the sensor area (below the square side) and push the rubber by applying force with your finger. Tap **Next** and keep pushing the rubber with your finger until you see the success message.

-  • 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.

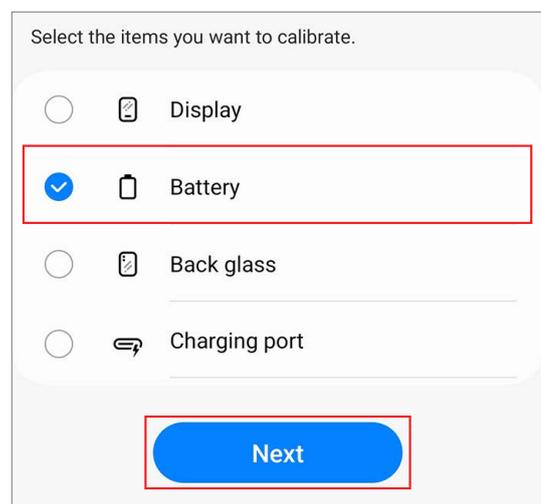
 **Completed** appears only when the calibration is successfully completed. If **Completed** does not appear, try calibrating again.



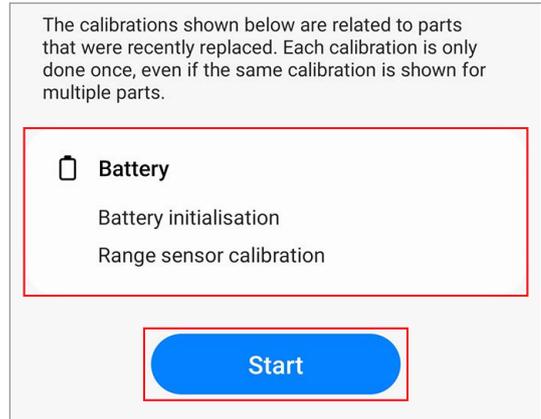
Resetting the Battery Cycle Count

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

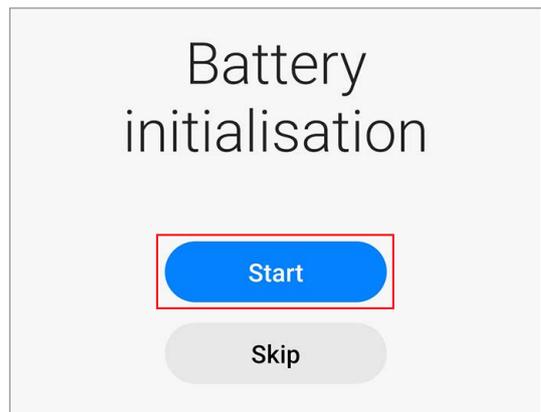
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced. Tap **Battery** → **Next**.



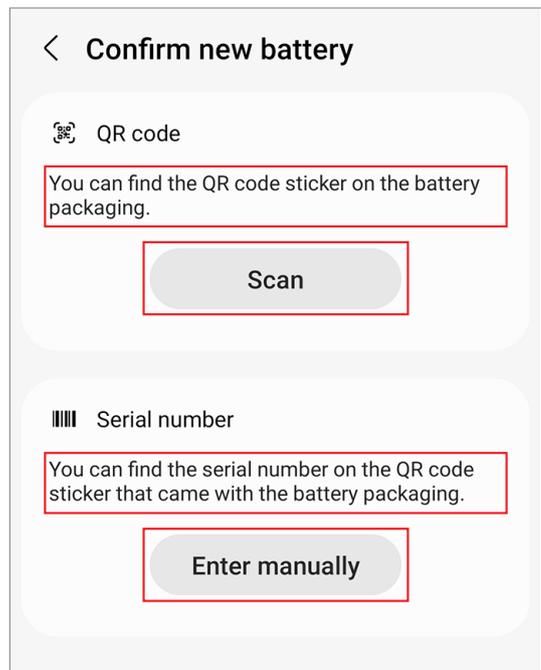
3 Check part and calibration and tap **Start**.



4 Tap **Start**.



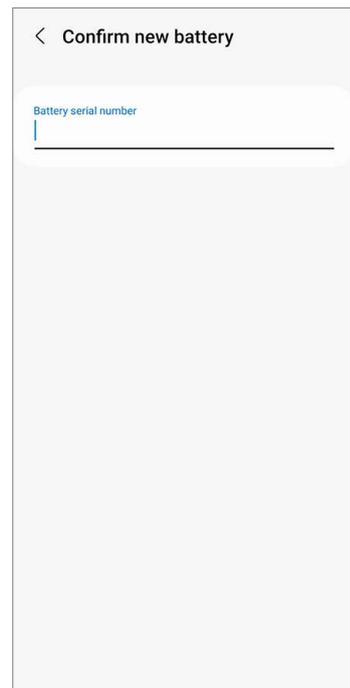
5 Read the on-screen instructions and tap **Scan** to scan the QR code, or tap **Enter manually** to enter the serial number manually.



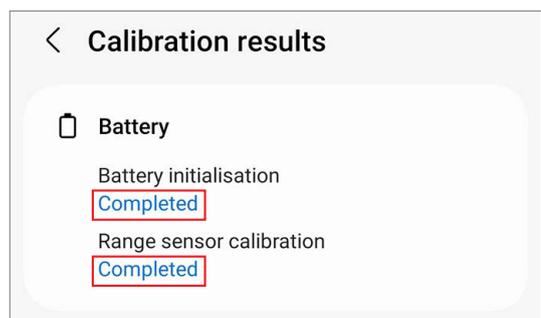
6 Scan the QR code or enter the serial number that appears on the battery package.

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.



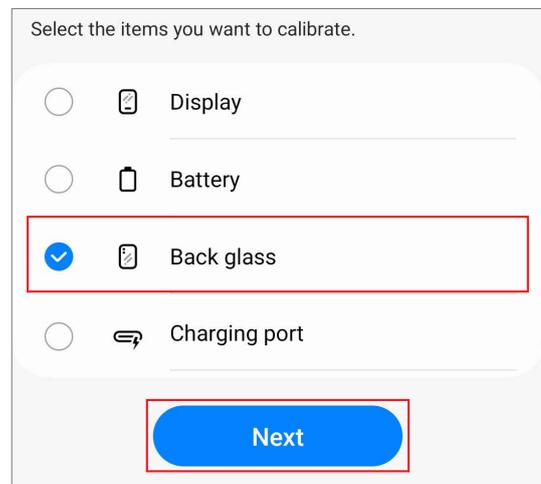
Range Sensor Calibration

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.

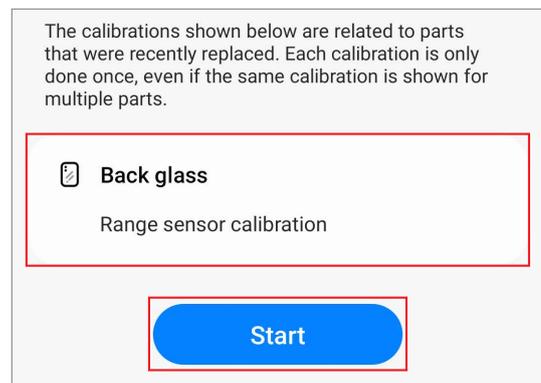
Range sensor calibration is available through the **Self Repair Assistant** app.

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

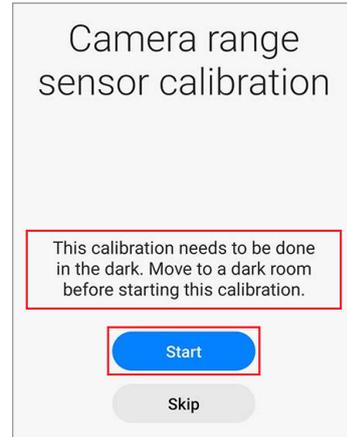
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



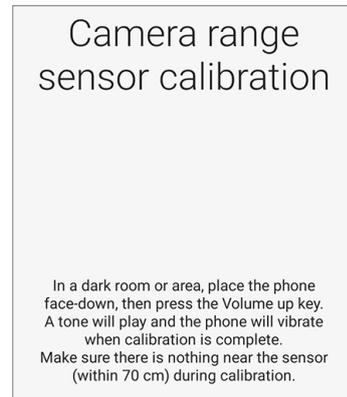
- 3 Check part and calibration and tap **Start**.



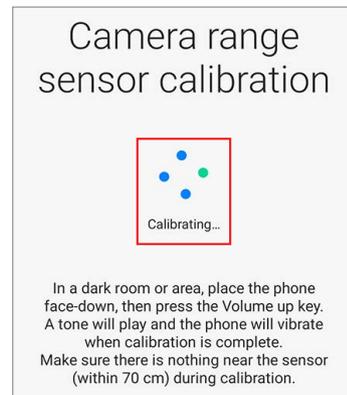
- 4 Read the on-screen instructions and tap **Start**.



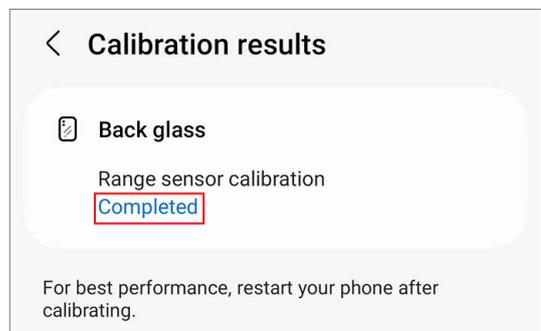
- 5 In a dark room or area, place the phone face-down, then press the Volume button.



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



- 7 Check the calibration result.



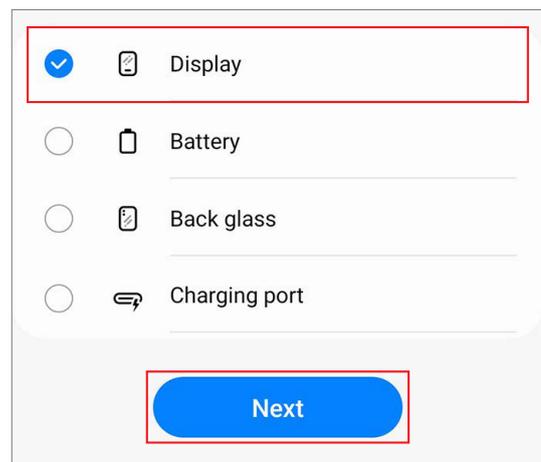
Touch Screen Panel Calibration

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

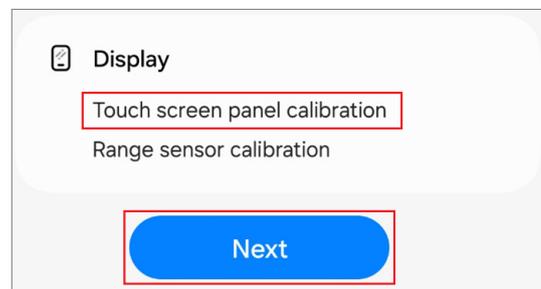
Touch screen panel calibration is available through the **Self Repair Assistant** app.

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

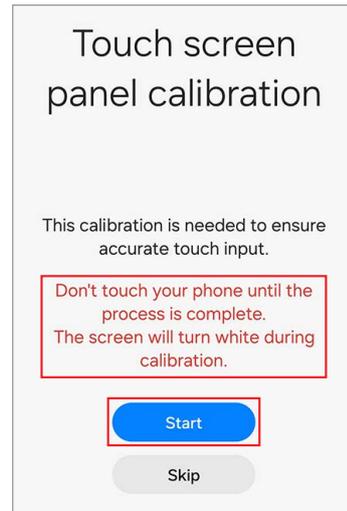
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



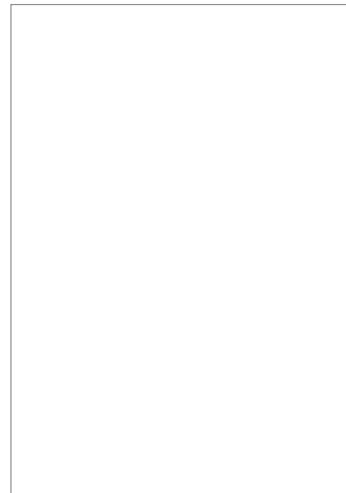
- 3 Check part and calibration and tap **Next**.



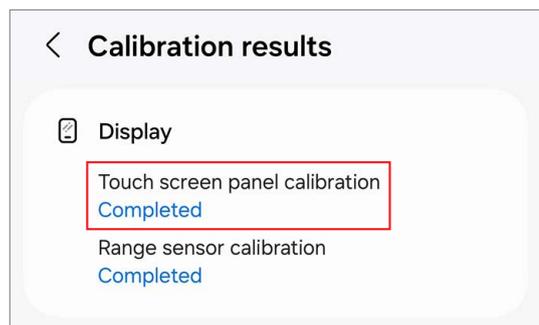
- 4 Read the on-screen instructions and tap **Start**.



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



- 6 Check the calibration result.

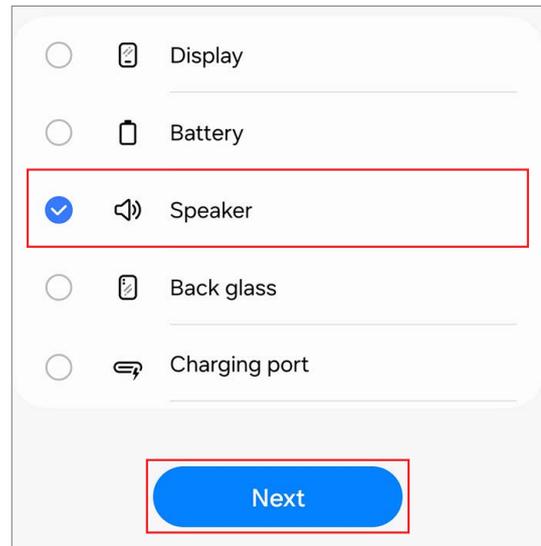


Speaker Calibration

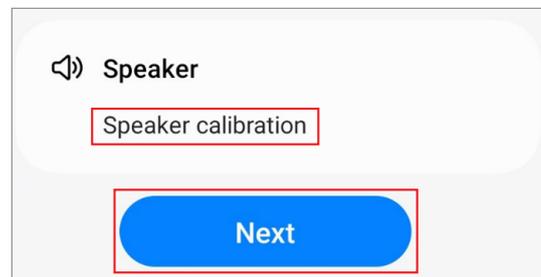
When replacing speakers, the speaker must be calibrated to guarantee optimised speaker performance for devices that have it.

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

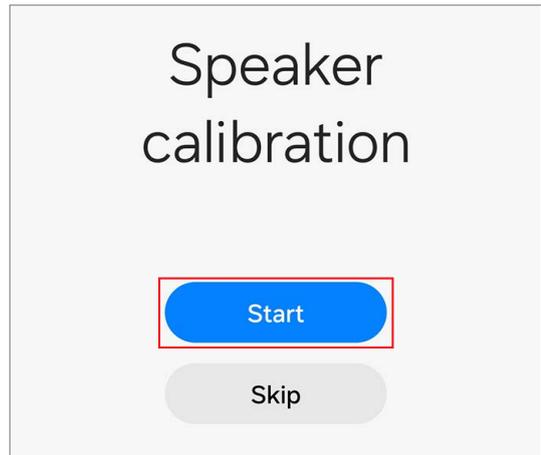
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



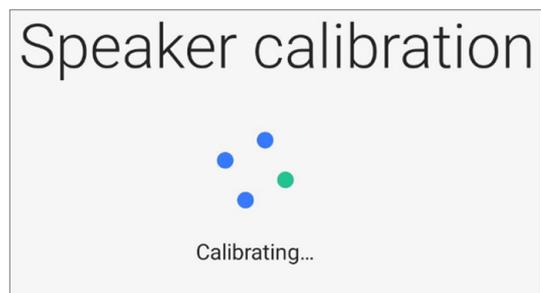
- 3 Check part and calibration and tap **Next**.



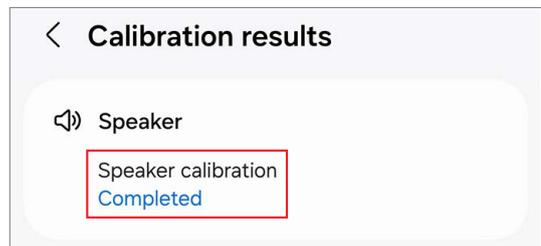
4 Tap **Start**.



5 The calibration will perform automatically.



6 Check the calibration result.



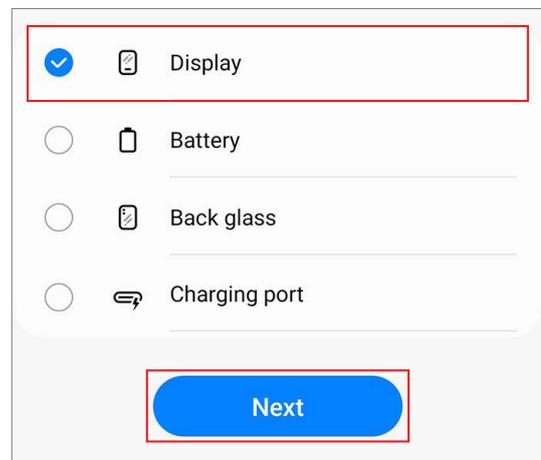
Under-display Camera Calibration (Fold Models Only)

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

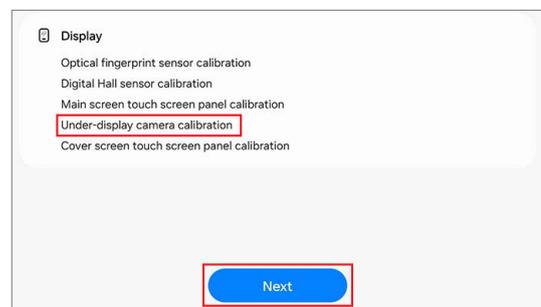
Under-display camera calibration is available through the **Self Repair Assistant** app.

 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.

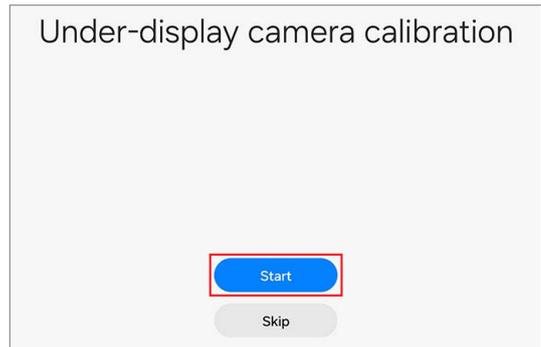
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



- 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.



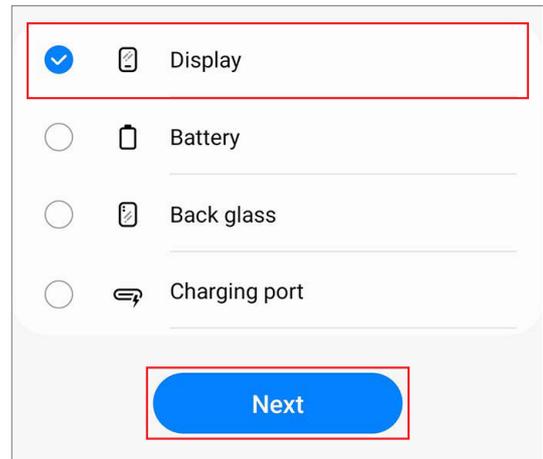
- This feature may not be available depending on the model. The availability of this feature can be automatically checked in the Self Repair Assistant app, so please follow the guidance of the Self Repair Assistant app.
- **For Fold models:** If the main screen does not turn on after being replaced (the 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.

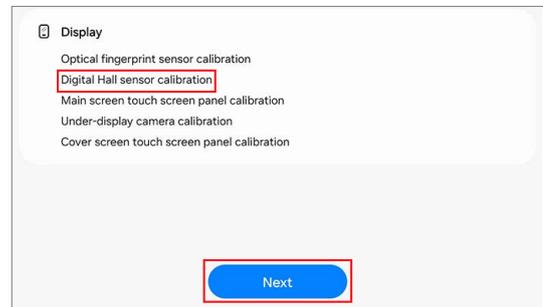
When calibration is complete, the main screen will turn on normally.

- **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.

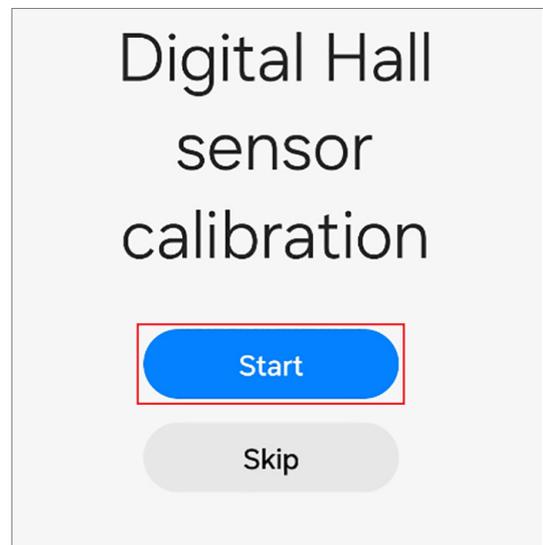
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



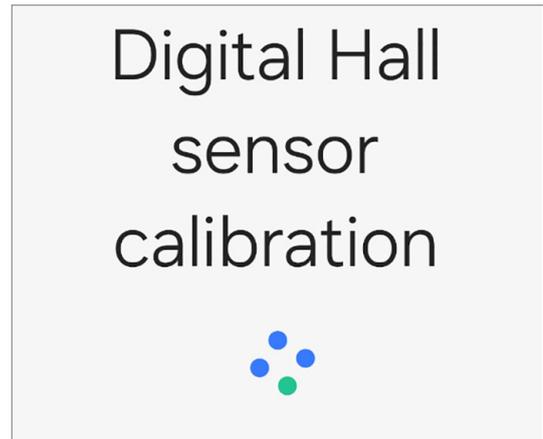
- 3 Check part and calibration and tap **Next**.



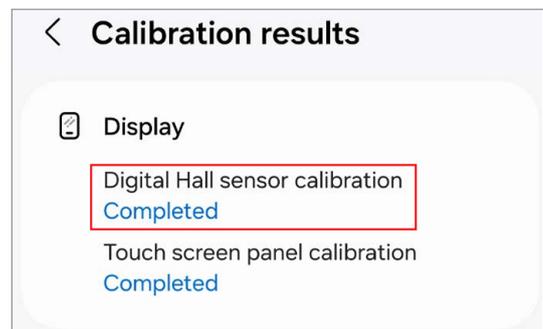
- 4 Tap **Start**.



5 The calibration will perform automatically.



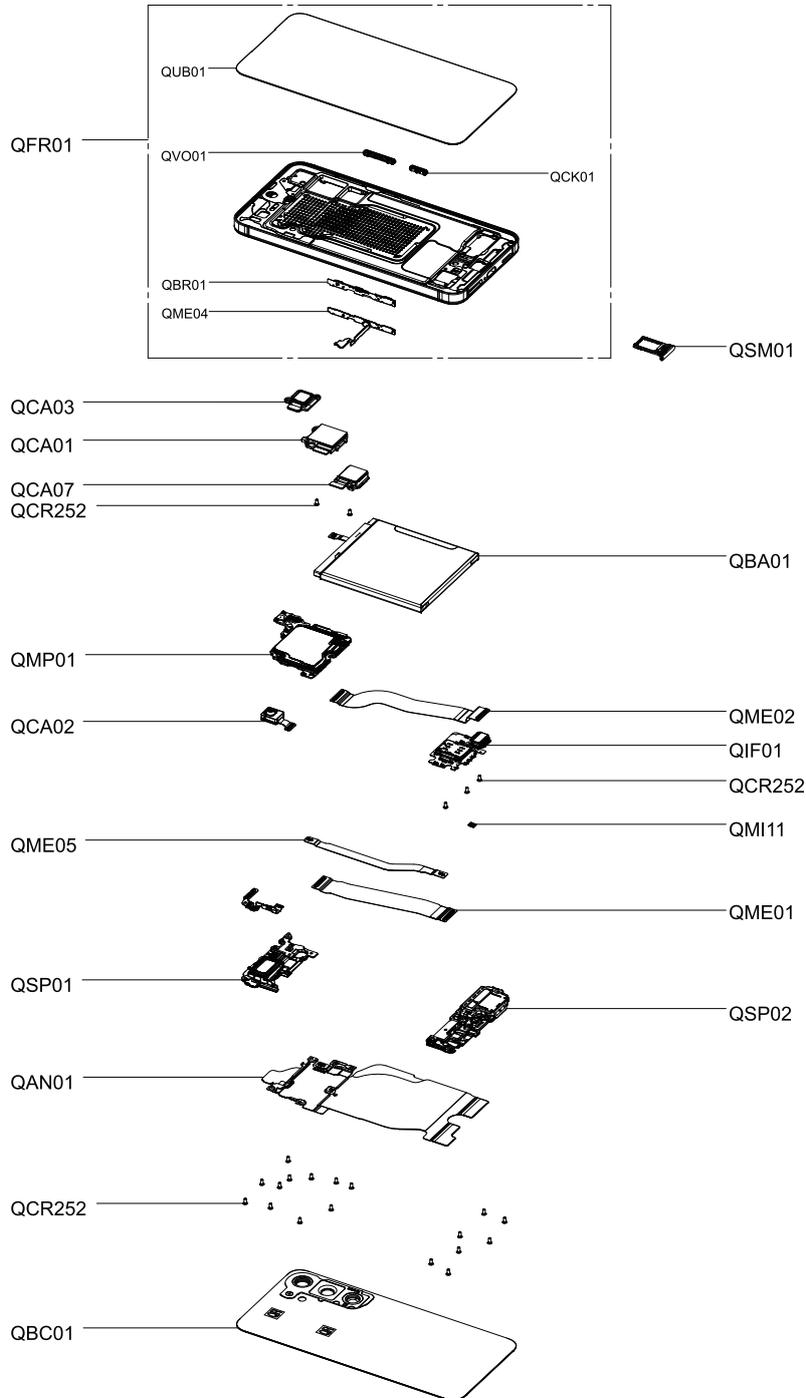
6 Check the calibration result.



Exploded View and Parts List

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

Exploded View



Parts List

Number	Name
QCR252	Screw 3428
QME05	Main Flex Cable 1 (Charging Port to Main Board)
QSP02	Bottom Speaker
QCA02	Front Camera
QIF01	Charging Port
QMI11	Microphone
QME04	Button Flex Cable
QBR01	Button Holder
QV001	Volume Button
QCK01	Side Button
QCA07	Rear Camera (Tele)
QCA03	Rear Camera (Ultra Wide)
QCA01	Rear Camera (Wide)
QSP01	Top Speaker
QAN01	Wireless Charging Module
QSM01	SIM Card Tray
QBC01	Back Cover
QMP01	Main Board (PBA)
QUB01	Screen
QFR01	Screen Module
QBA01	Battery
QME02	Main Flex Cable 2 (Screen to Main Board)
QME01	Main Flex Cable 3 (Charging Port to Main Board)

Disassembly and Assembly

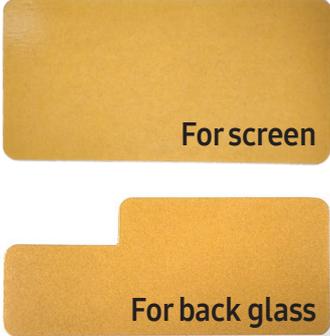
Tools for Disassembly and Assembly

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 & Part Code	Image	Description
Safety Goggles		Prevents accidents during repair (protective equipment)
Safety Gloves (ESD safe, cut-resistant)		Prevents accidents during repair (protective equipment)
Safety Mask		Prevents accidents during repair (protective equipment)
Anti-static Wrist Strap		Prevents electrostatic damage (recommended)

Tool & Part Code	Image	Description
ESD Safe Mat	 A roll of black anti-static matting with a grey surface, partially unrolled. A black wrist strap with yellow tips is connected to the mat.	Prevents electrostatic damage (recommended)
Ejection Pin	 A blue plastic pin with a looped handle and a thin metal tip.	Pin for ejecting the SIM card tray
Cross-head Screwdriver	 A black-handled screwdriver with a silver metal shaft and a cross-shaped tip.	Tool for screwing in cross-head screws
Opening Pick	 A black, triangular-shaped plastic pick.	Tool for disassembling the back cover, screen, and other parts
Opening Tool	 A long, thin, black plastic tool.	Tool for disassembling the connector and other parts
Suction Cup	 Two suction cups: one is red with a handle, the other is clear with a metal ring handle.	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 & Part Code	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"> ✎ <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>
Disposable Piston		<p>Tool for applying the CIPG adhesive into the 2 bottom holes of metal frame</p> <ul style="list-style-type: none"> ✎ <ul style="list-style-type: none"> • This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.

Tool & Part Code	Image	Description
Disposable Needle		<p>Tool for applying the CIPG adhesive into the 2 bottom holes of metal frame</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 Fixture		<p>Tool for pressing the back cover, screen, or battery</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>
Bottom Press Tray		<p>Tool to place the device when pressing the back cover, screen, or battery using the press fixture</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> <ul style="list-style-type: none"> • You can choose the one side of the bottom press tray depending on the back cover, screen, or battery. • This tool may vary depending on the device.

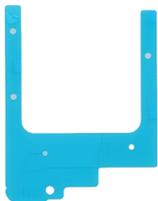
Tool & Part Code	Image	Description
Top Press Tray		<p>Tool to cover the bottom press tray when pressing the back cover or screen using the press fixture</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>
Top Rubber Pad		<p>Tool to place into the top press tray when pressing the back cover or screen using the press fixture</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> <ul style="list-style-type: none"> • The rubber pads for the screen and back cover are different from each other. • This tool may vary depending on the device.
Battery Rubber Pad		<p>Tool to cover the battery when pressing the battery using the press fixture</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 & Part Code	Image	Description
Calibration Rubber for Optical Fingerprint Sensor		<p>Tool to calibrate the optical fingerprint sensor after replacing the 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>
Press Roller		<p>Tool for pressing the back cover</p> <p> Availability of the bundled press roller may vary depending on the country and is currently available only in limited countries.</p>
Press Stamp		<p>Tool for pressing the back cover</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>

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	 A green, rectangular adhesive tape with a white center and a small notch on the right side, used for attaching the back cover to the metal frame.	Double sided adhesive tape for attaching the back cover to metal frame
Front Camera Adhesive Tape	1	 A small, blue, rectangular adhesive tape with a white center and a small notch on the right side, used for attaching the front camera to the screen module.	Double sided adhesive tape for attaching the front camera to screen module
3rd Microphone Hole Adhesive Tape	1	 A green, L-shaped adhesive tape with a white center and a small notch on the right side, used for attaching around a microphone hole.	Double sided adhesive tape for attaching around a microphone hole
Screw 3428	23	 A small, yellow, Phillips-head screw used for the rear, charging port, and camera.	Screws for the rear (18 ea) Screws for the charging port (3 ea) Screws for the camera (2 ea)
Screen Side Adhesive Tape	1	 A green, rectangular adhesive tape with a white center and a small notch on the right side, used for attaching the sides of the screen to the metal frame.	Double sided adhesive tape for attaching the sides of screen to metal frame  This tape is only available when the screen itself is repaired.

Item	Quantity	Image	Description
Screen Middle Adhesive Tape	1		<p>Double sided adhesive tape for attaching the middle of screen to metal frame</p> <p> This tape is only available when the screen itself is repaired.</p>
Screen Bottom Adhesive Tape	1		<p>Double sided adhesive tape for attaching the bottom of screen to metal frame</p> <p> This tape is only available when the screen itself is repaired.</p>
CIPG Adhesive	1		<p>The adhesive for applying into the 2 bottom holes of metal frame</p> <p> This tape is only available when the screen itself is repaired.</p>

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 the 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.

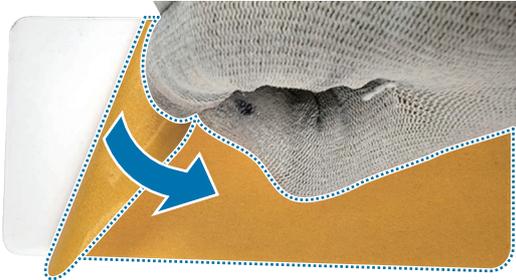
For all cases of broken glass:

- 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

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 upwards.

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



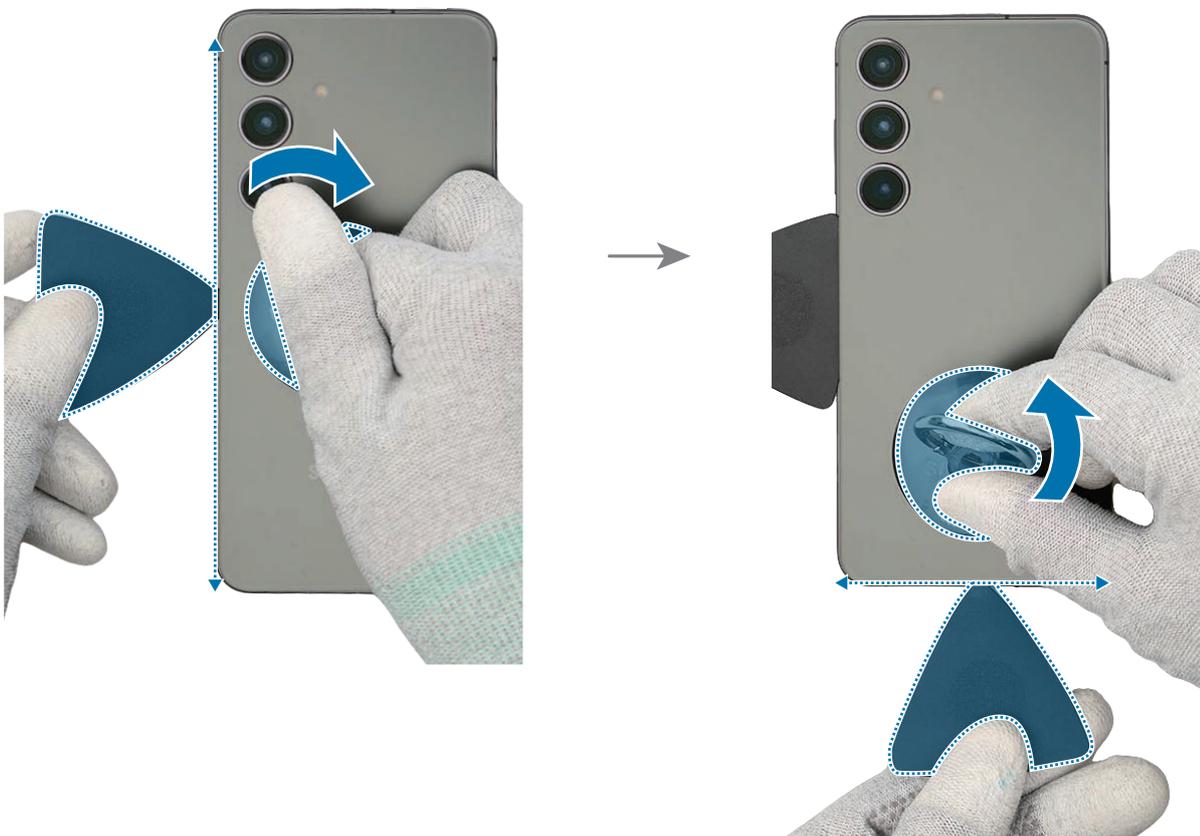
-  • As the back cover can be damaged by excessive force, be careful not to damage the back cover.
- Be careful that the suction cup does not adhere to the area where the tape or sticker is attached.

 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 of the back cover 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 (●).
- ✍ • Make sure to leave the opening pick inserted in the edges to prevent the adhesive from resealing. It is recommended that a large 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 Remove all adhesive tapes on the separated back cover (●) if you use the existing back cover as it is. Also, remove the double-sided adhesive tape around the microphone hole using the tweezers and your fingers.
- ⚠
 - 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.
 - ✍
 - Apply additional heat with a microwaveable heating bag if you are having trouble separating the adhesive.
 - As the adhesive tape for the microphone hole can be either on the microphone hole of the back cover or the device, please check both locations.

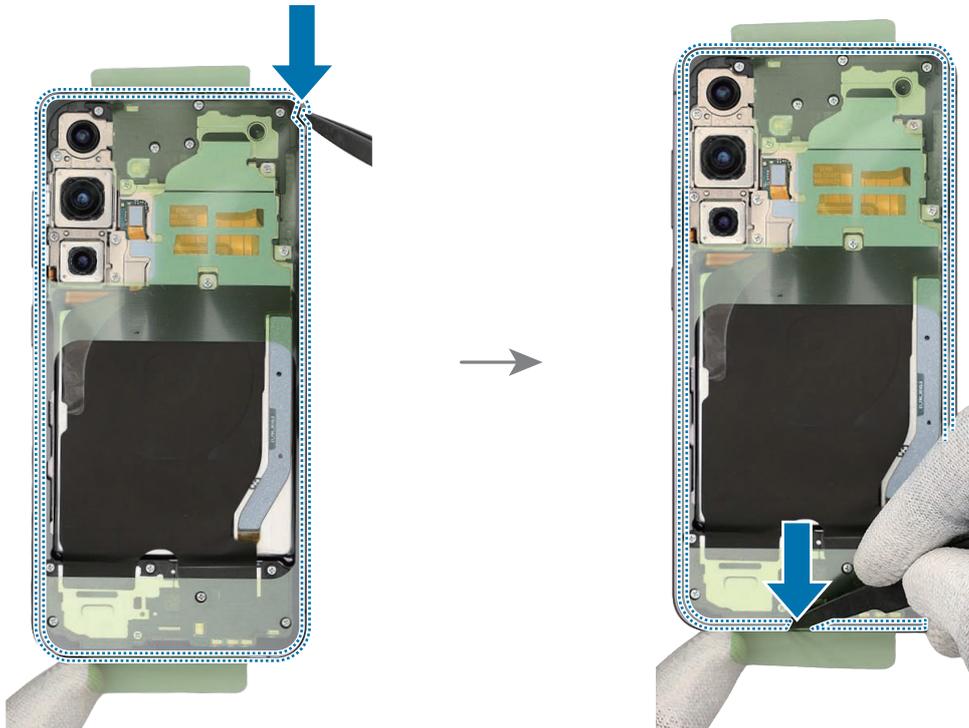




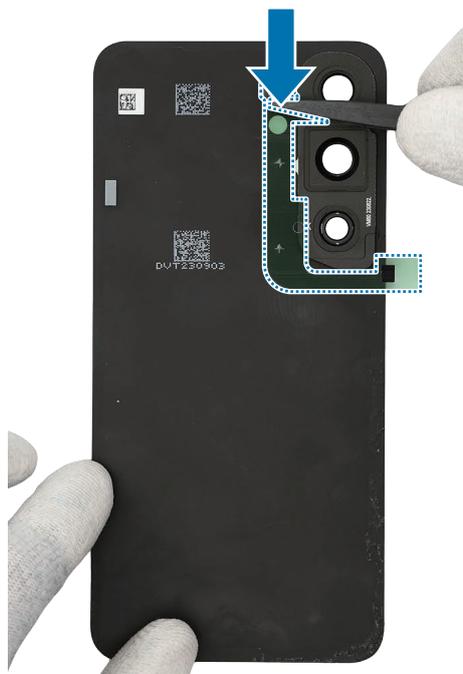
- 2 Remove the transparent film of the new back cover adhesive tape. Align the adhesive tape precisely on the metal frame and attach it.



- 3 Using the tweezers and your fingers, gently press around the edges to ensure a secure fit.



- 4 Remove the release film under the new microphone hole adhesive tape. Using the tweezers and your fingers, attach the tape to the inside of the back cover by using the tape's L-shaped cutout to guide you during the installation.



- 5 Using the tweezers or your fingers, remove all release films on both the back cover and the device.



- 6 Attach the back cover and press down on the edges of the back cover. Check the gap between the back cover and the metal frame.
 - 📌 If you feel some gap, remove the back cover and attach it again. Some foreign materials can be inside the device.



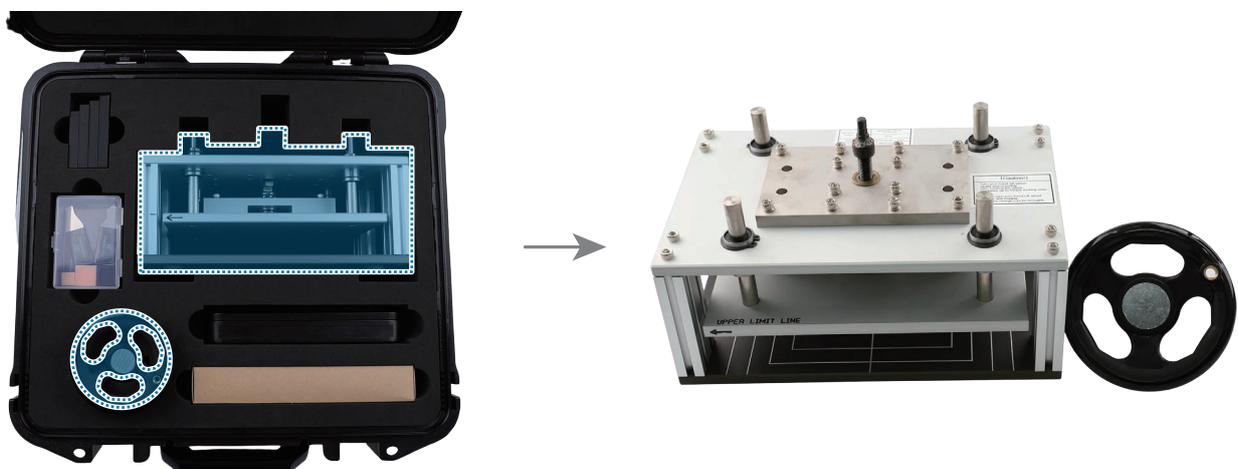
- 7 Press down the edges of the back cover evenly in order to attach the back cover perfectly. Ensure that there are no abnormalities.



- 8 Now you can press the fully assembled back cover using the press fixture. Remove the press fixture body and its handle from the rental tool kit packaging.

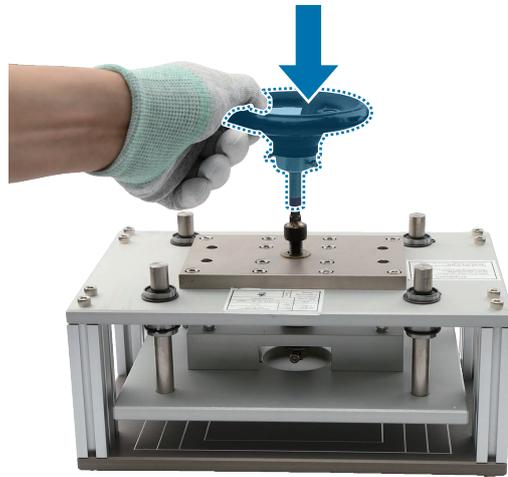
 Keep your hands out of the press fixture to avoid mechanical pinching and injury.

-  • This tool 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 may vary depending on the country and is currently available only in limited countries.
 - A rented tool kit packaging may have different packaging than shown.



9 Carefully position the torque limit handle horizontally at the top of the press fixture.

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



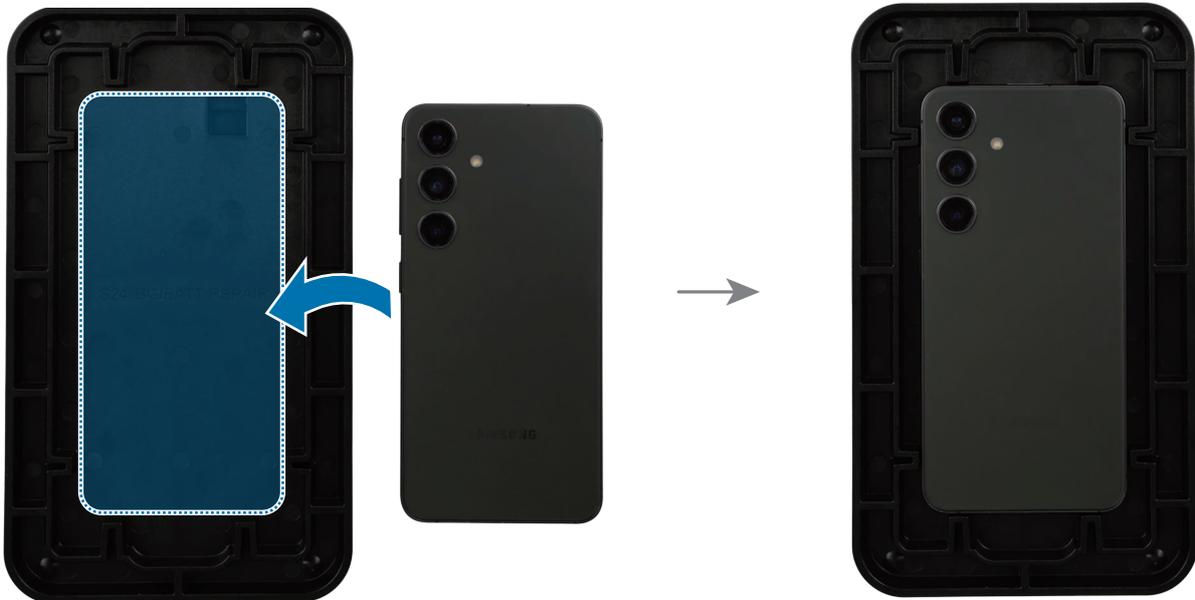
10 Remove the bottom press tray, top press tray, and top rubber pad for the back cover from the rental tool kit packaging.

 The top rubber pads for the back cover and screen are different from each other.



11 Leave the bottom press tray so that the side for the back cover is visible. Then, place the device into the tray facing down.

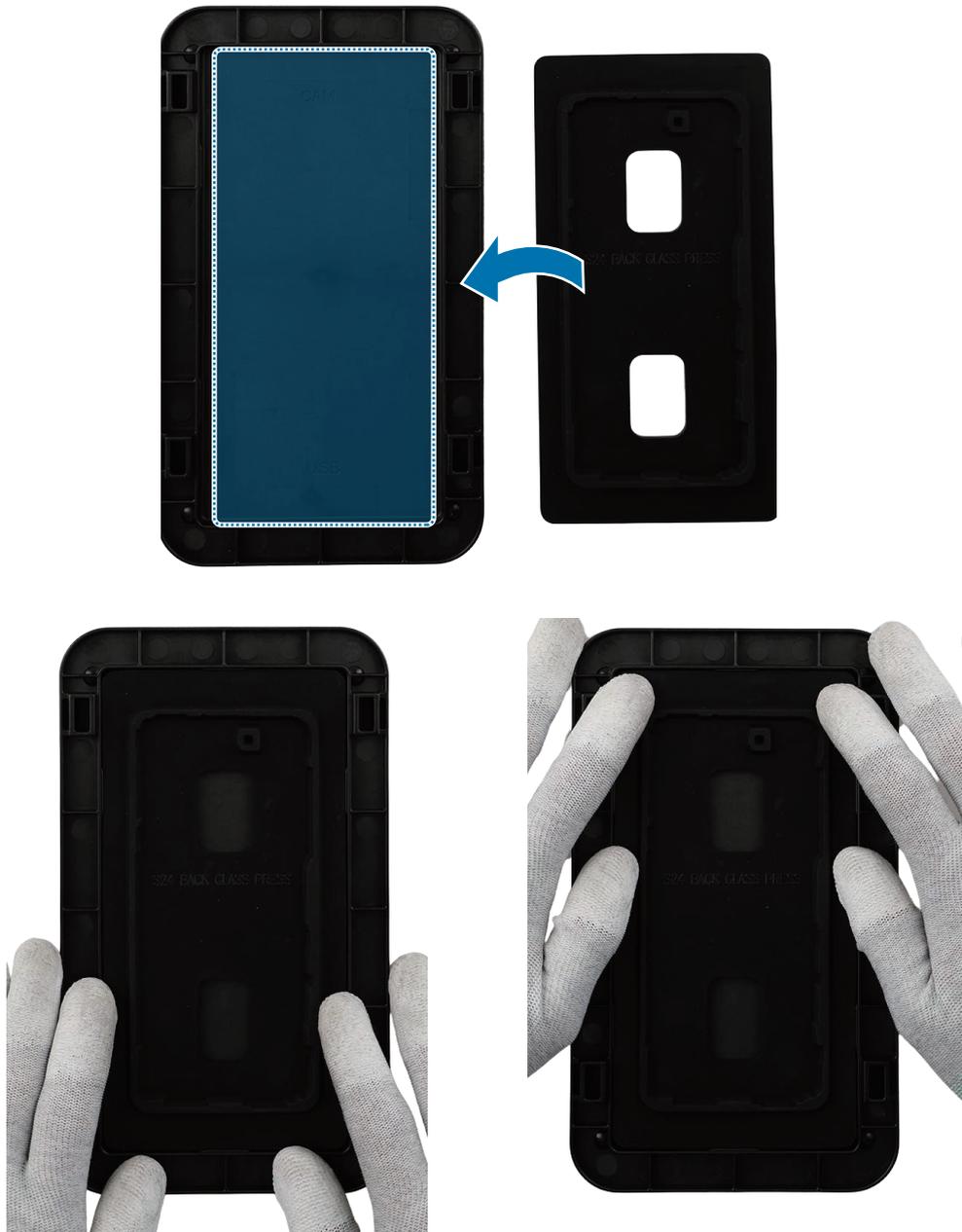
- You can choose the one side of the bottom press tray depending on the back cover, screen, or battery.
- The bottom press tray may vary depending on the device.



12 Insert the top rubber pad for the back cover into the top press tray. Press down the edges of the rubber pad entirely using your fingers and make sure that the pad is pressed in completely.



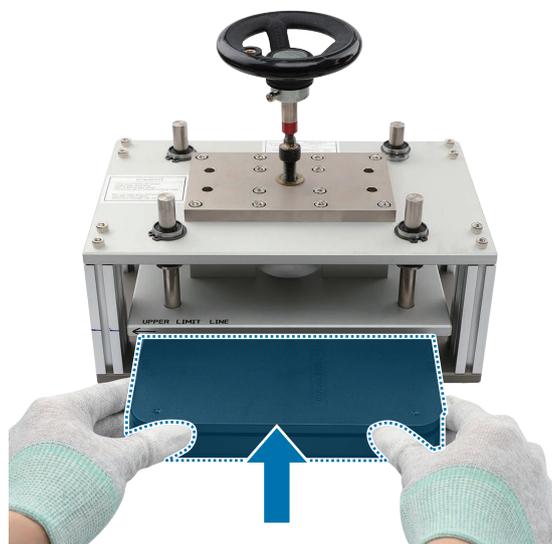
- The rubber pads for the back cover and screen are different from each other.
- The rubber pad may vary depending on the device.



13 Carefully place the top press tray over the bottom press tray.



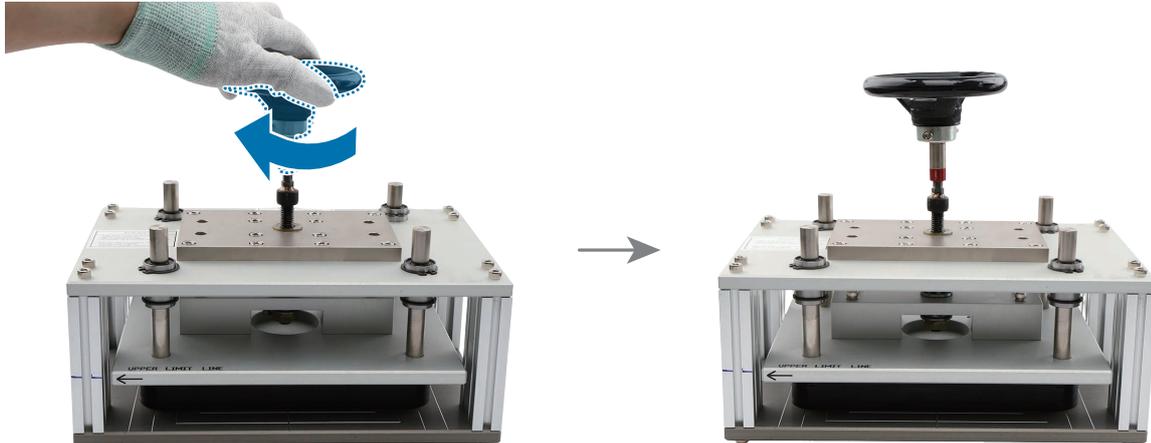
14 Position the entire back cover press tray with the device horizontally in the centre of the press fixture.



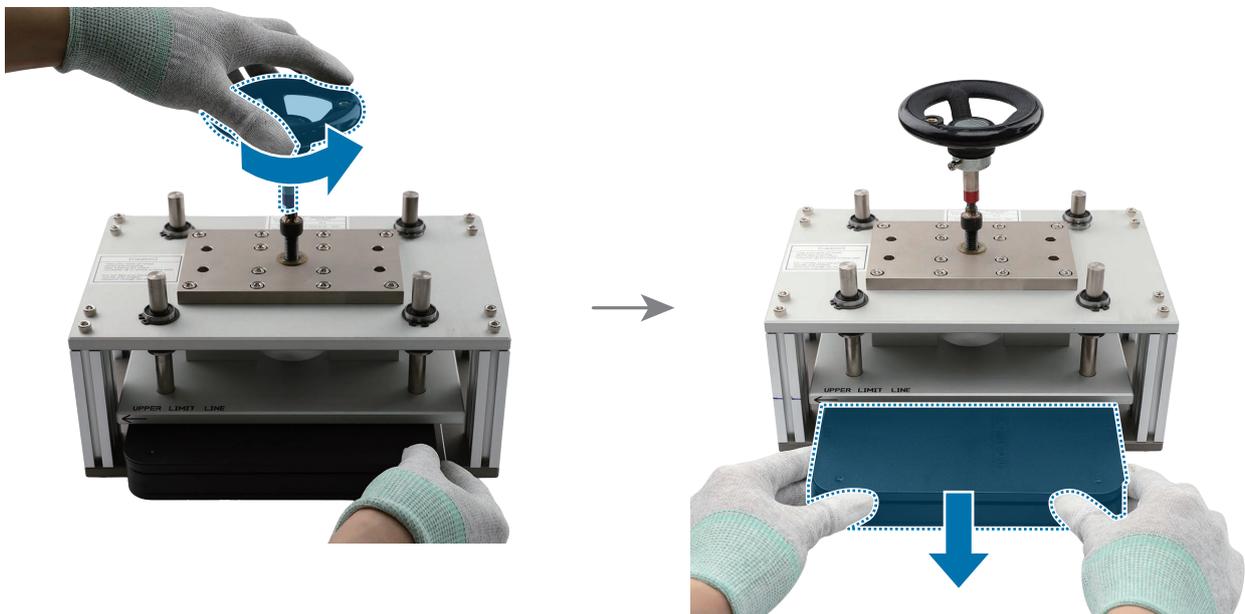
15 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 1 minute.

 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.



16 When the press is completed after 1 minute, rotate the torque limit handle to the anticlockwise and remove the tray from the press fixture.

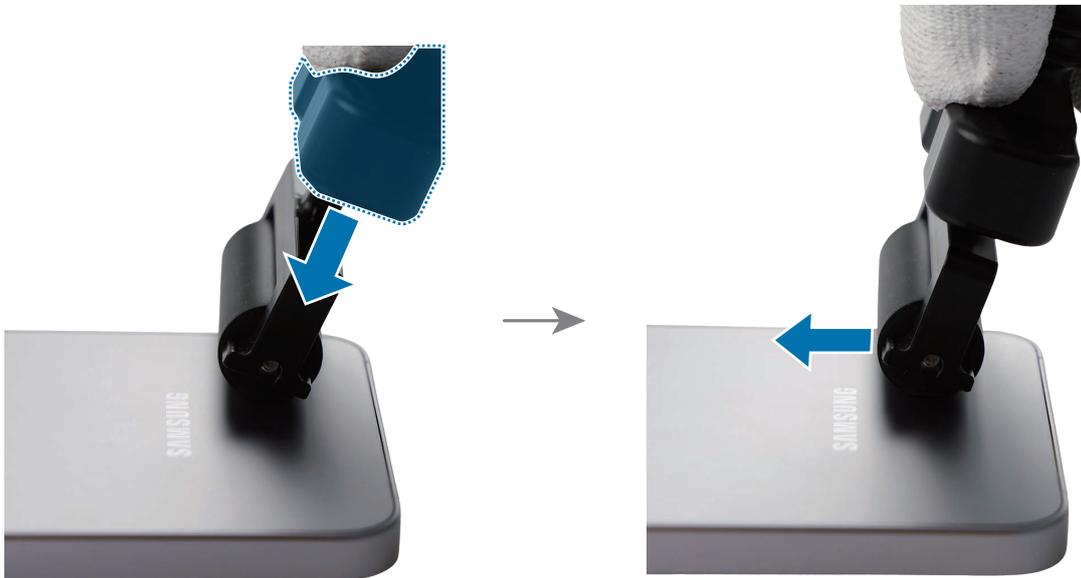


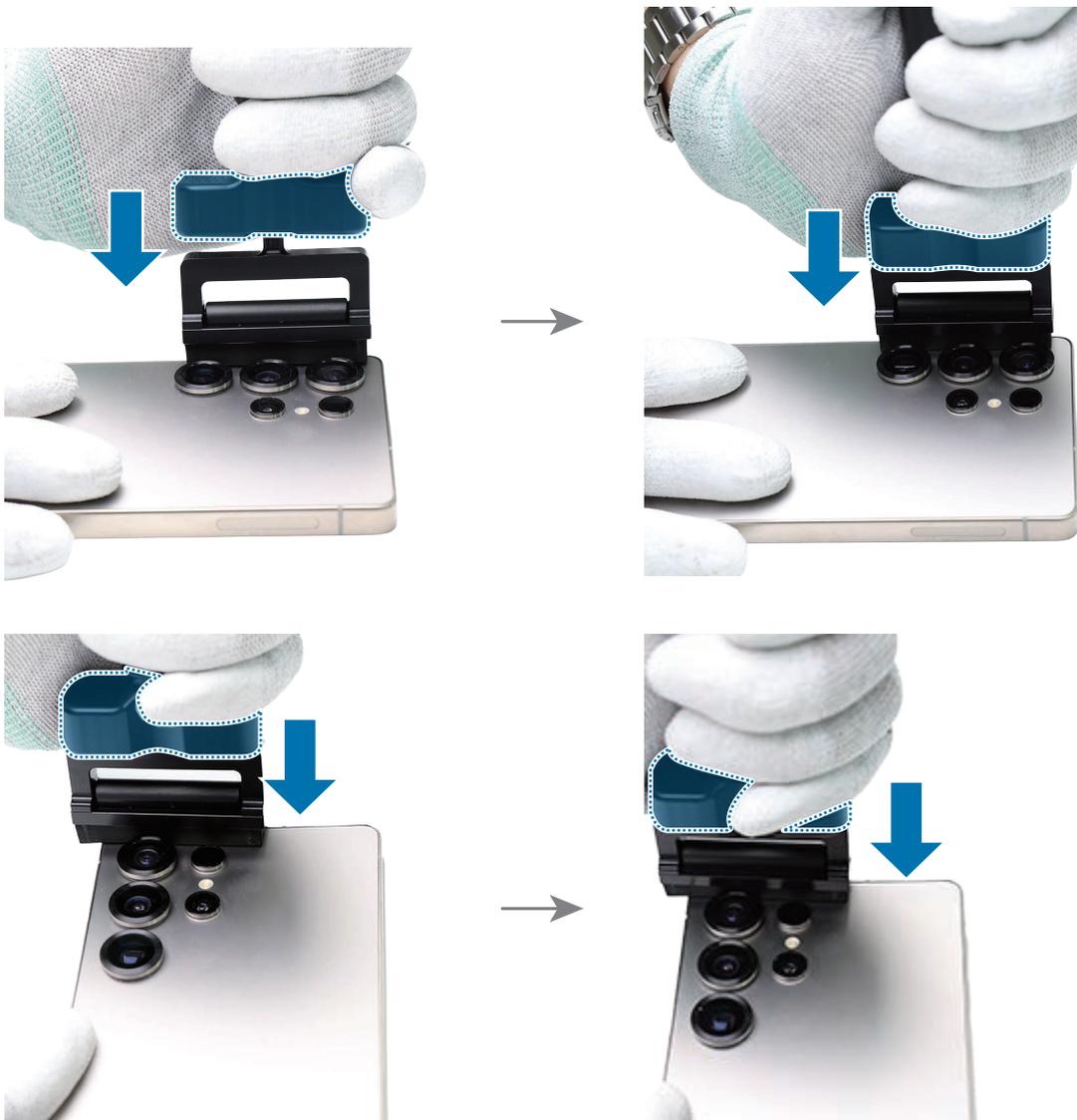
17 Remove the device carefully from the tray.



 If only a single back cover has been repaired, the press roller and stamp can be bundled with the ordered parts and you can also further press the fully assembled back cover using the bundle tool. With the roller's spring pressed, using the press roller, rub the edge of the back cover 5 times from bottom to top. Repeat this 5 times on all edges of the back cover except for the camera part so that the back cover is pressed well. Next, press the outer edges of the camera with the press stamp for 5 seconds while pressing the spring of the stamp.

-  • Availability of the bundle tool may vary depending on the country and the device, and is currently available only in limited countries.
- Be sure to swipe while the spring of the roller and stamp is pressed.
- Be careful not to damage the camera part by the roller and stamp.
- As the back cover can be damaged by excessive force, be careful not to damage the back cover.
- Ensure that the device is fixed on a soft and flat surface.
- Be careful to place the surface of the roller and stamp horizontally on the back cover.





Top Speaker

 The top speaker is built into the rear top.

Disassembly

 Remove the [Back Cover](#) first before you begin.

1 Check the 11 screws on the top of the rear and remove them using a cross-head screwdriver.

 Be careful not to damage the main board 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.



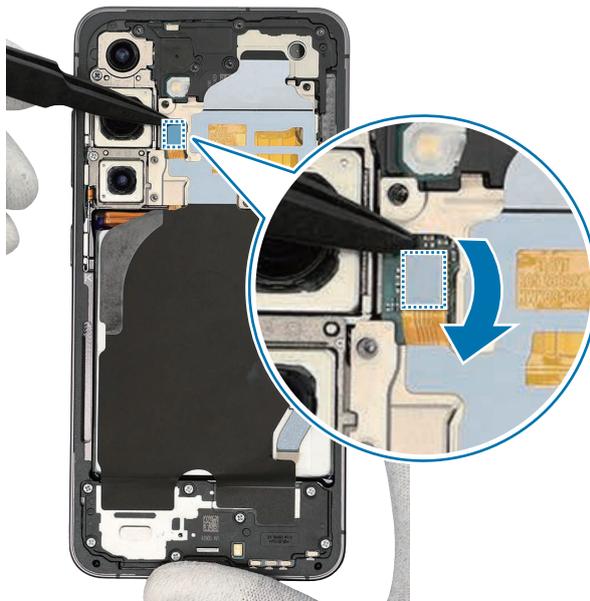
2 Using the tweezers, separate the NFC antenna connector. Using the tweezers or your fingers, lift up on the right of the metal plate carefully, pull it out from the device, and tilt it back down slowly. Then, disconnect the battery connector from the main board using the tweezers. Using the tweezers, disconnect the top FRC connector, lift up on the separator groove of the rear top, and remove it carefully.

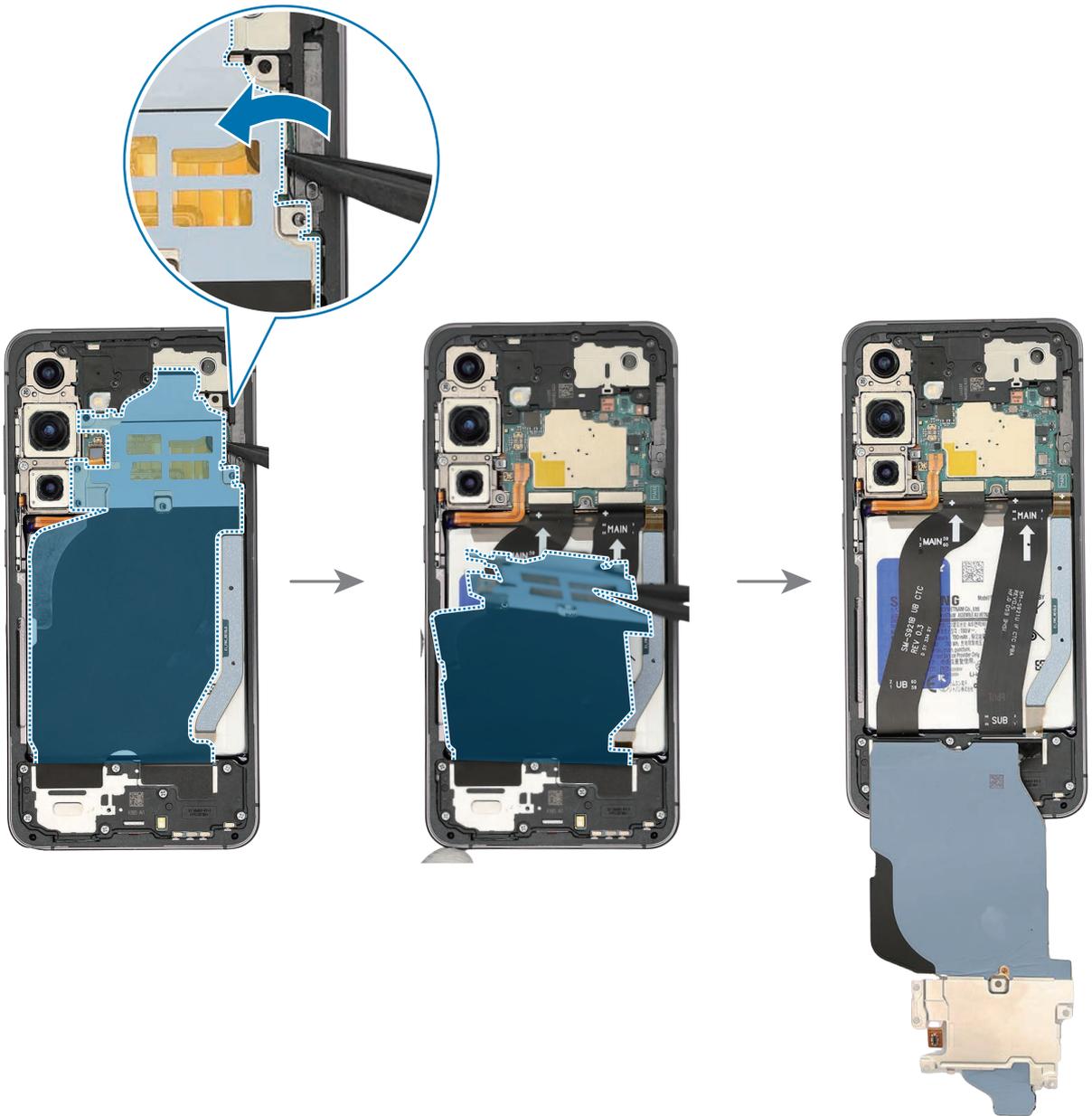


- Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.

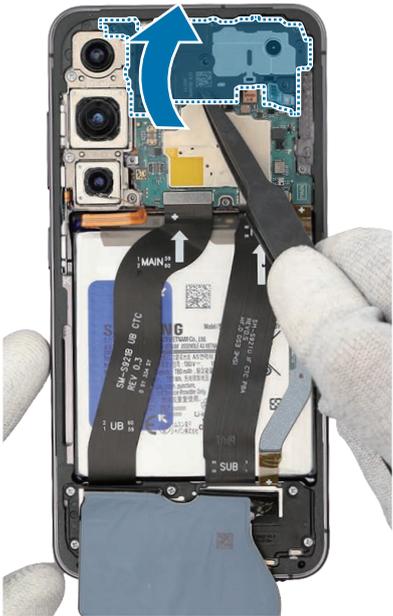
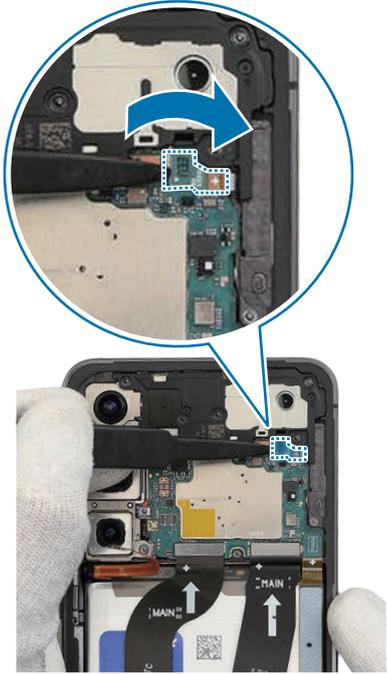


- Be careful not to damage the main board and near components.
- Be careful not to damage the NFC antenna connector and the FPCB cables.
- Be careful not to tear any connected components near the wireless charging module.
- Ensure that the wireless charging module is unfolded to prevent damaging the FPCB.





Disassembly and Assembly

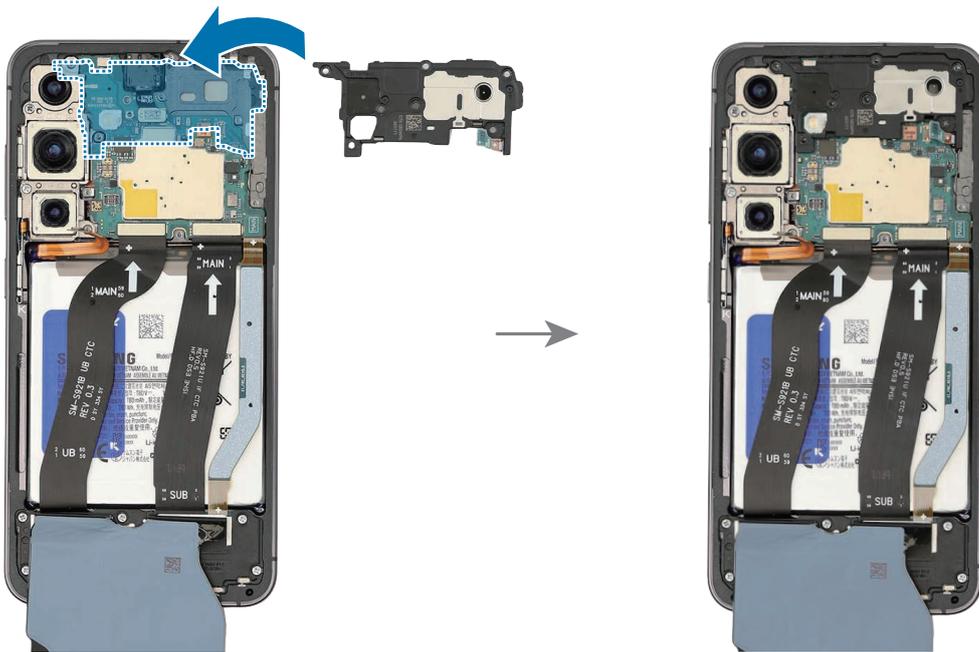


Reassembly

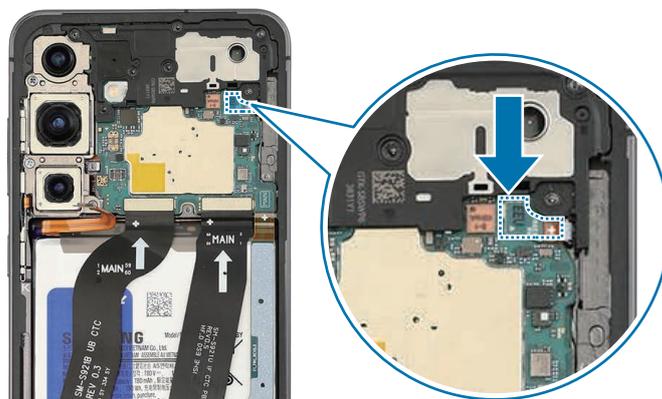
⚠ Leaving screws inside the device may damage internal components, such as the battery. During assembly, be extra careful not to leave any unassembled screws inside the device.

1 Using the tweezers or your fingers, place the rear top in the correct location and gently press down to secure it in its position until you hear a locking sound.

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



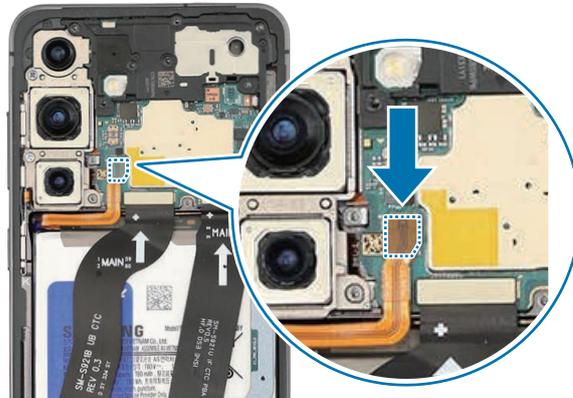
2 Connect the top FRC connector to the main board.



3 Connect the battery connector to the main board.

⚠ Be careful not to damage the battery.

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



4 Hold the tilted wireless charging module using the tweezers or your fingers and carefully assemble it to its original state.

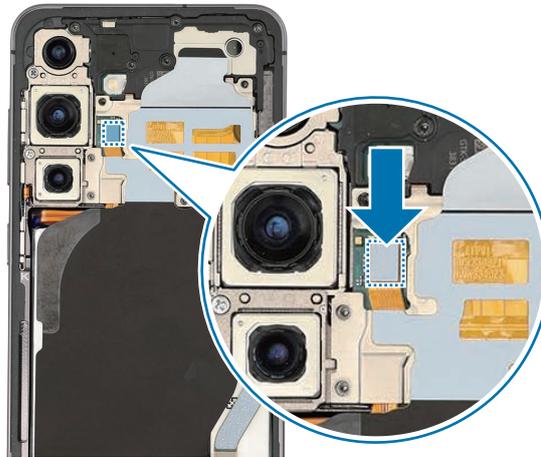
⚠ Be careful not to damage the battery.

- ⚠ • Be careful not to damage the NFC antenna connector and the FPCB cables.
- 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.



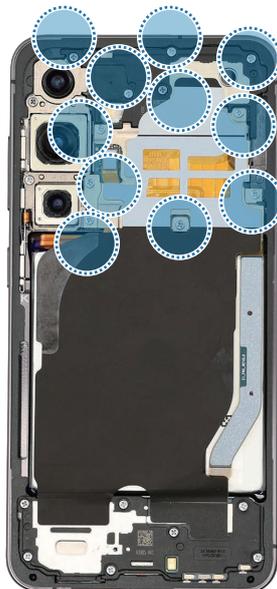
5 Connect the NFC antenna connector to the main board.

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

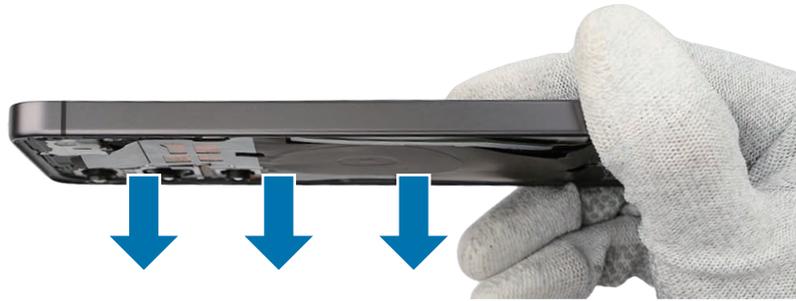


6 Check the screw 3428 (11 ea) at the 11 different points on the top of the rear and fasten them using a cross-head screwdriver.

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



- 7 Check carefully with your fingers to see if there are any screws or other foreign substances inside the device (battery, PBA, cable, etc.). Shake the device lightly with the back of the device facing down to remove any remaining screws.



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

Bottom Speaker

 The bottom speaker is built into the rear bottom.

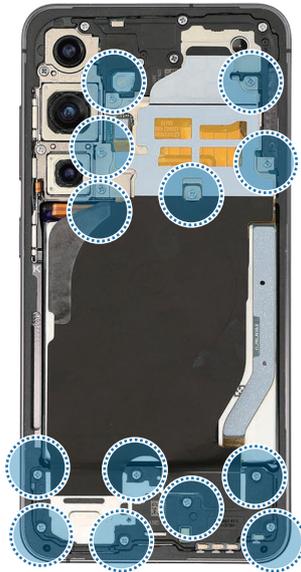
Disassembly

 Remove the [Back Cover](#) first before you begin.

1 Check the 13 screws on the top and bottom of the rear and remove them using a cross-head screwdriver.

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

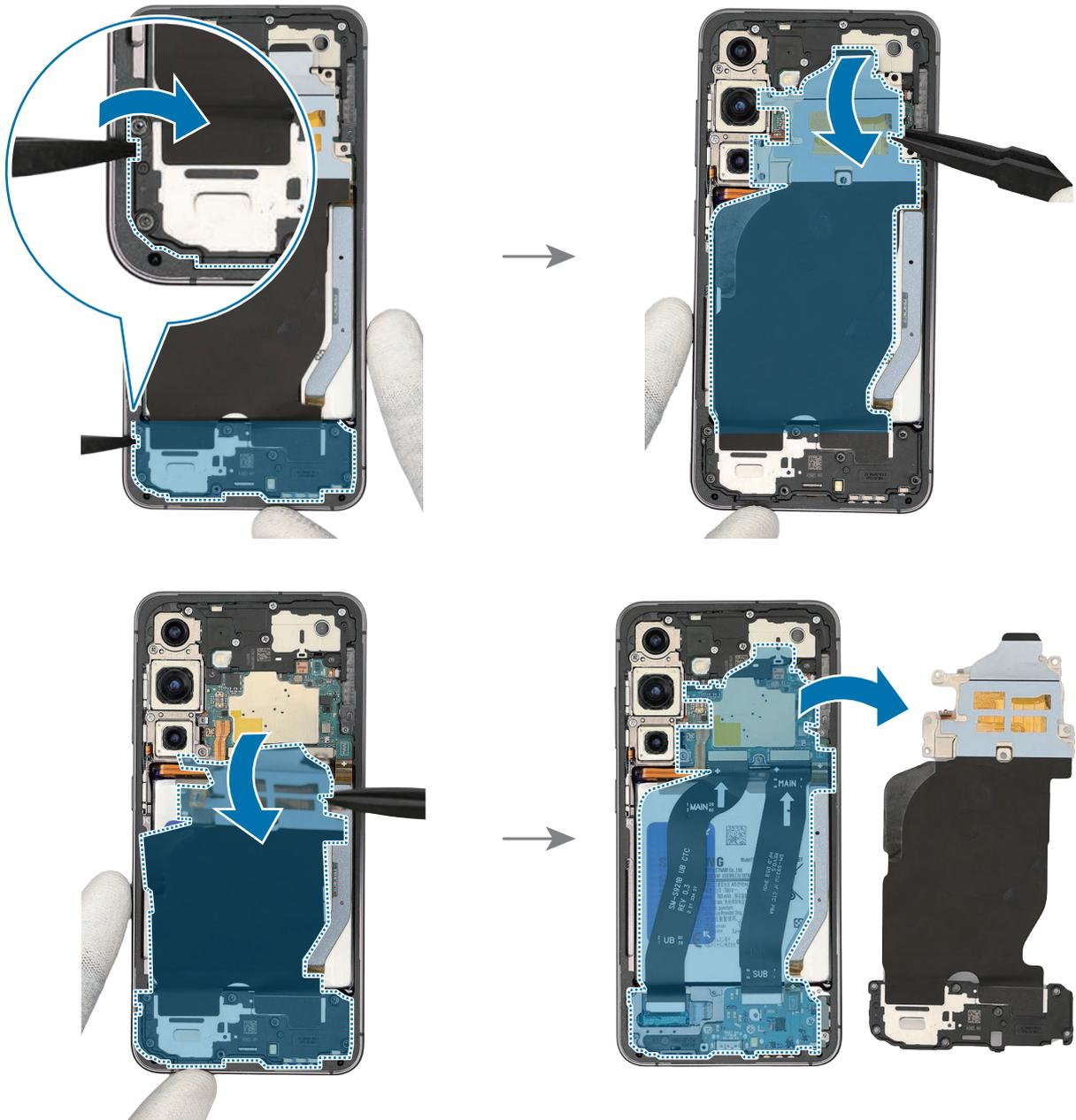
 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



2 Using the tweezers, separate the NFC antenna connector. Place the tweezers in the left corner of the bottom speaker module, tilting the speaker module so it is slanted more than 90° . Using the tweezers or your fingers, lift up on the right of the metal plate carefully and pull it out from the device. Separate the wireless charging module and speaker module simultaneously from the device.

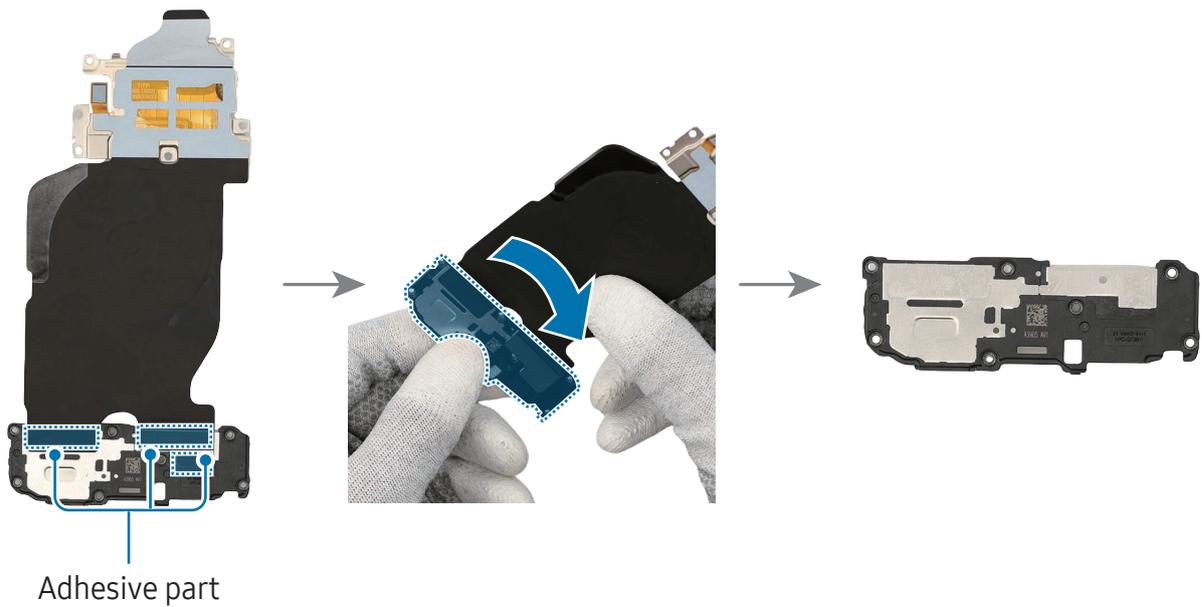
- ⚠ • Be careful not to damage the main board and near components.
- Be careful not to damage the NFC antenna connector and the FPCB cables.
- Be careful not to tear any connected components near the wireless charging module.
- Ensure that the wireless charging module is unfolded to prevent damaging the FPCB.





3 Using your fingers, separate the wireless charging module and the bottom speaker module from each other.

- ⚠ Be careful not to damage or tear the adhesive parts of the wireless charging module.
- Ensure that the wireless charging module is unfolded to prevent damaging the PCB.



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.

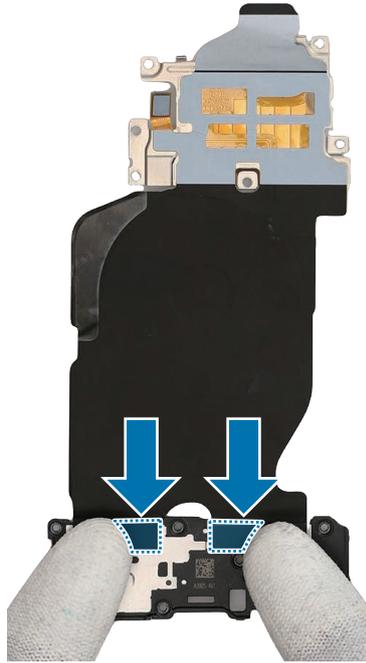
1 Align the adhesive parts of the wireless charging module to the bottom speaker module and attach them accurately.

-  Be careful not to damage or tear the adhesive parts of the wireless charging module.
- Ensure that the wireless charging module is unfolded to prevent damaging the PCB.
- Be careful not to damage the bottom speaker and near components.



Adhesive part

- 2 Gently press down the adhesive parts with your fingers so that the wireless charging module can be attached well.



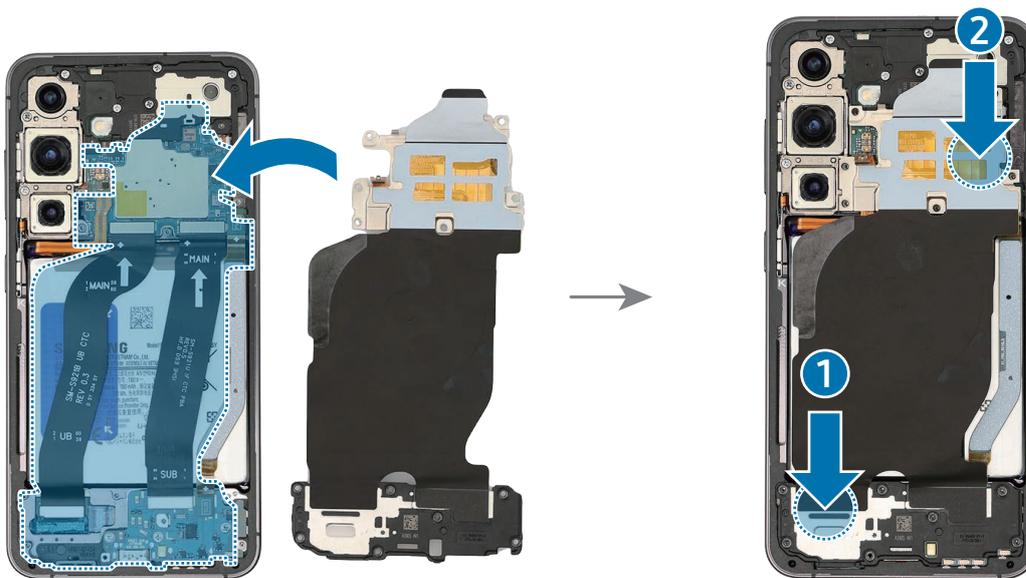
- 3 Using the tweezers and your fingers, assemble the lower part of the speaker module first, and press down on it in its position with your fingers until you hear a locking sound. Assemble the upper side of the wireless charging module above the main board and press down on it in its position with your fingers.



Be careful not to damage the battery.



- When attaching the wireless charging module, make sure that it fits to the device's form.
- Be careful not to damage the main board and near components.



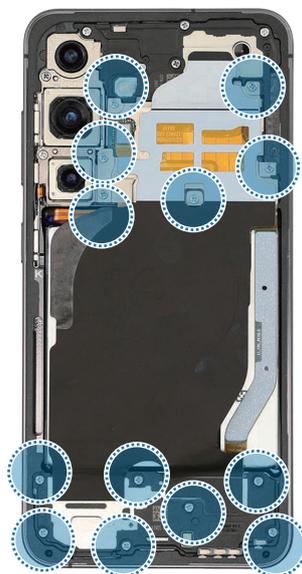
4 Connect the NFC antenna connector.

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

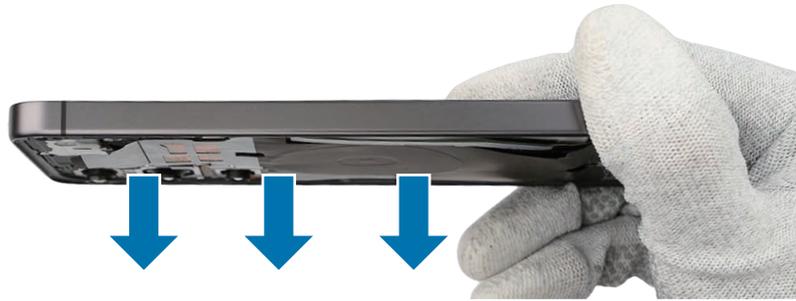


5 Check the screw 3428 (13 ea) at the 13 different points on the top and bottom of the rear and fasten them using a cross-head screwdriver.

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



- 6 Check carefully with your fingers to see if there are any screws or other foreign substances inside the device (battery, PBA, cable, etc.). Shake the device lightly with the back of the device facing down to remove any remaining screws.



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

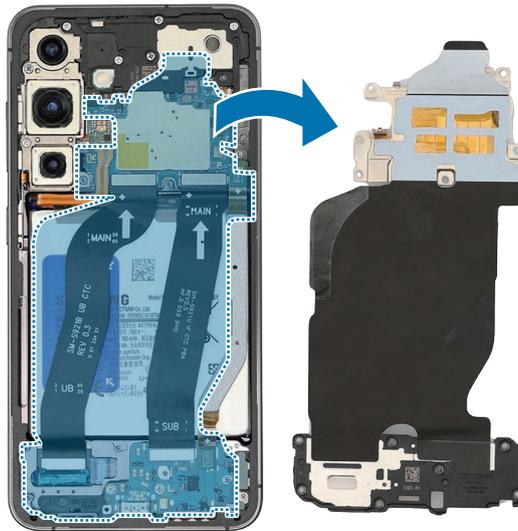
Charging Port and Microphone

 The microphone is built into the charging port module.

Disassembly

 Remove the [SIM Card Tray](#) and [Back Cover](#) first before you begin.

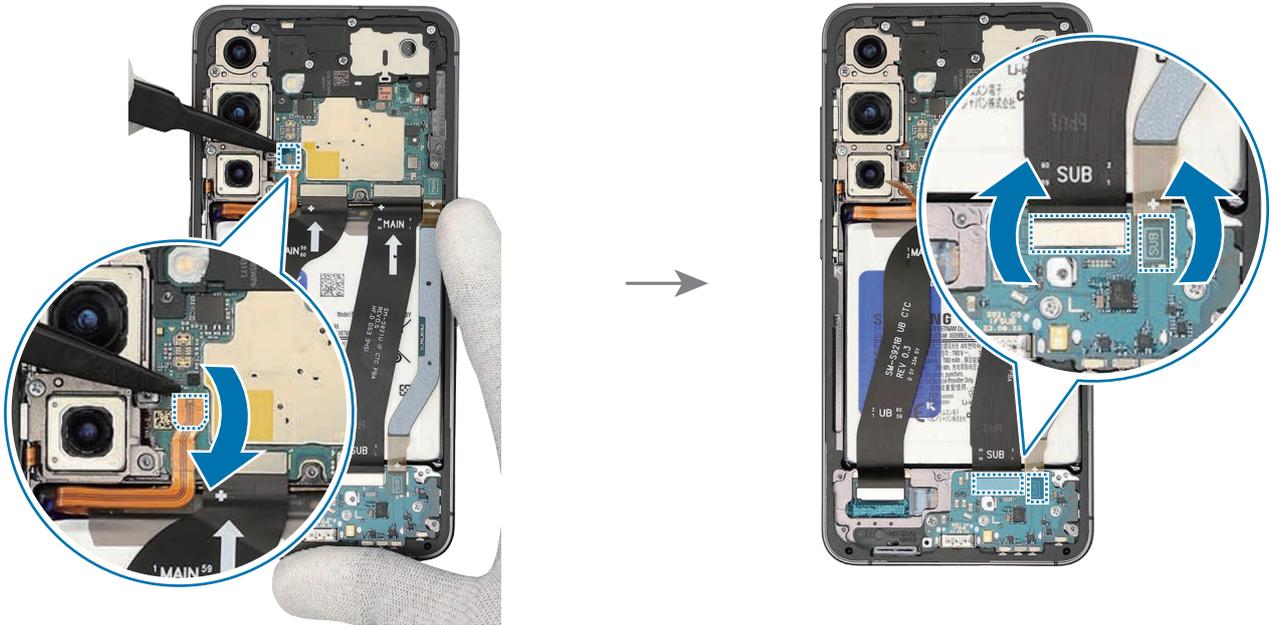
- 1 Check for the disassembly steps of the [Bottom Speaker](#) and completely separate the wireless charging module and speaker module.



2 Using the tweezers, disconnect the battery connector first from the main board. Then, disconnect the 2 flex cable connectors from the charging port using the tweezers.



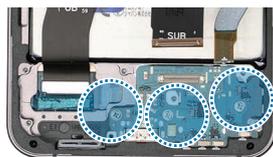
- Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.



3 Check the 3 screws on the charging port and remove them using a cross-head screwdriver.

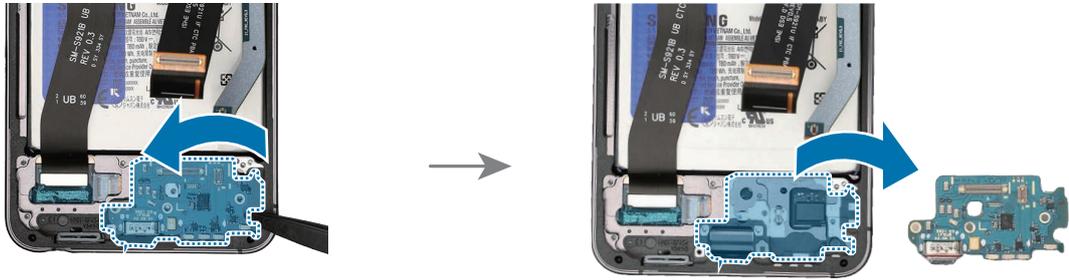


- Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



- 4 After lifting the FPCB cables up carefully, lift up on the separator groove of the charging port module using the tweezers and remove it carefully.

 Be careful not to damage the battery.



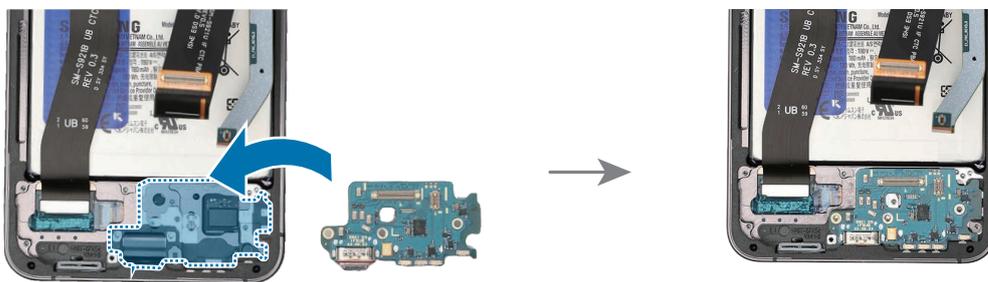
Reassembly

! 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, insert the charging port module into the bottom metal frame of the device, and press down on it in its position smoothly.

! Be careful not to damage the battery.

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



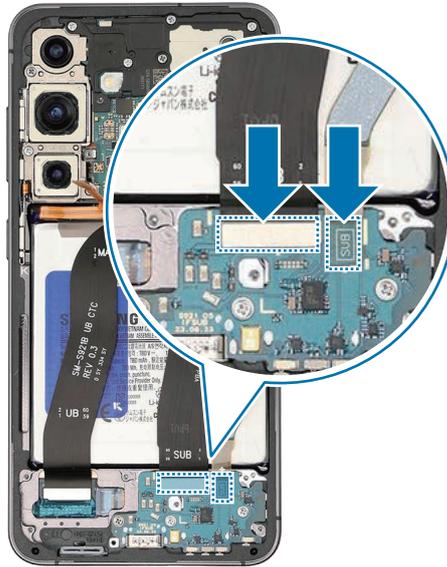
2 Check the screw 3428 (3 ea) at the 3 different points on the charging port and fasten the 3 screws using a cross-head screwdriver.

! Be careful not to damage the charging port module side contact.



3 Using your fingers, connect the 2 flex cable connectors to the charging port.

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

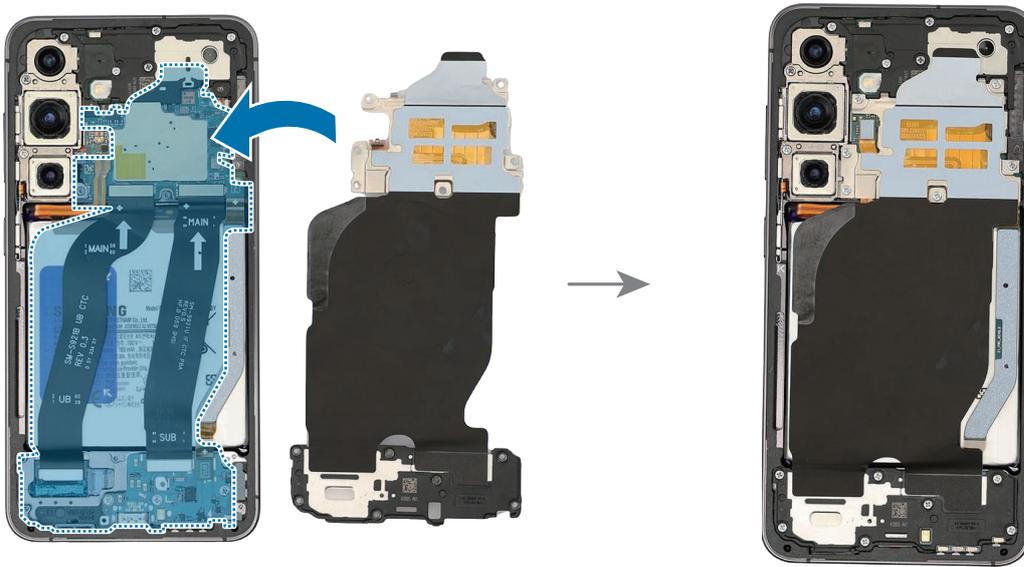


4 Connect the battery connector to the main board.

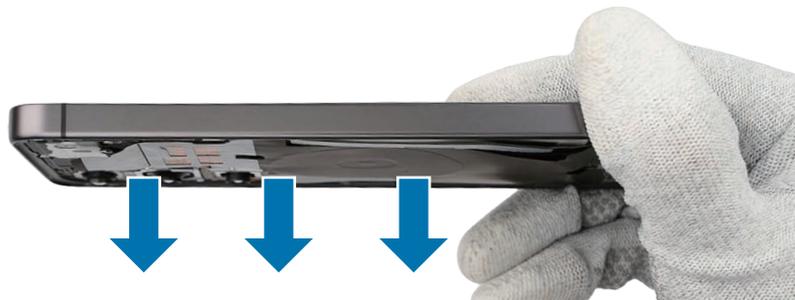
- ⚠ Be careful not to damage the battery.
- ⚠ Be careful not to damage the battery connector.



- 5 Check for the reassembly steps of the [Bottom Speaker](#) and completely reassemble the wireless charging module and speaker module.



- 6 Check carefully with your fingers to see if there are any screws or other foreign substances inside the device (battery, PBA, cable, etc.). Shake the device lightly with the back of the device facing down to remove any remaining screws.



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

Front Camera

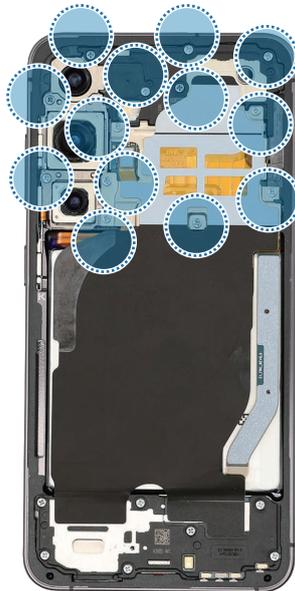
Disassembly

 Remove the [Back Cover](#) first before you begin.

1 Check the 13 screws on the top of the rear and remove them using a cross-head screwdriver.

 Be careful not to damage the main board 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.



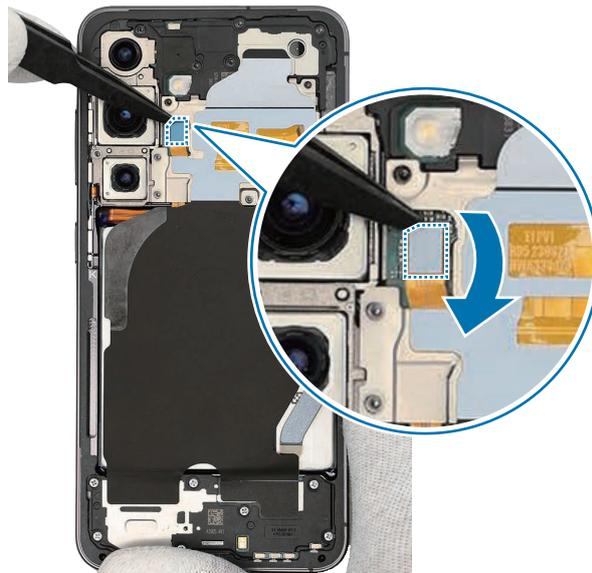
2 Using the tweezers, separate the NFC antenna connector. Using the tweezers or your fingers, lift up on the right of the metal plate carefully, pull it out from the device, and tilt it back down slowly. Then, disconnect the battery connector from the main board using the tweezers. Using the tweezers, disconnect the top FRC connector, lift up on the separator groove of the rear top, and remove it carefully.

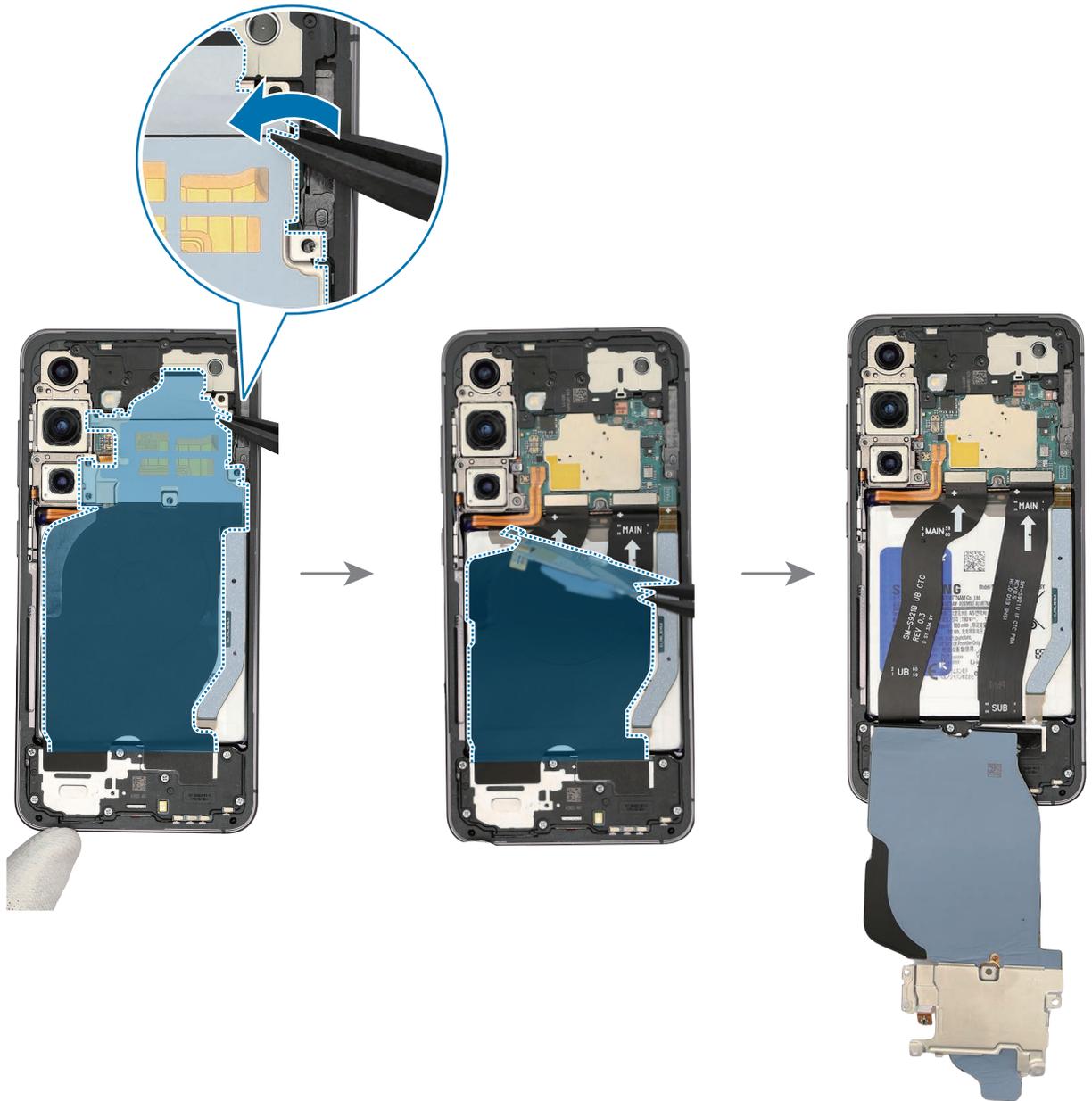


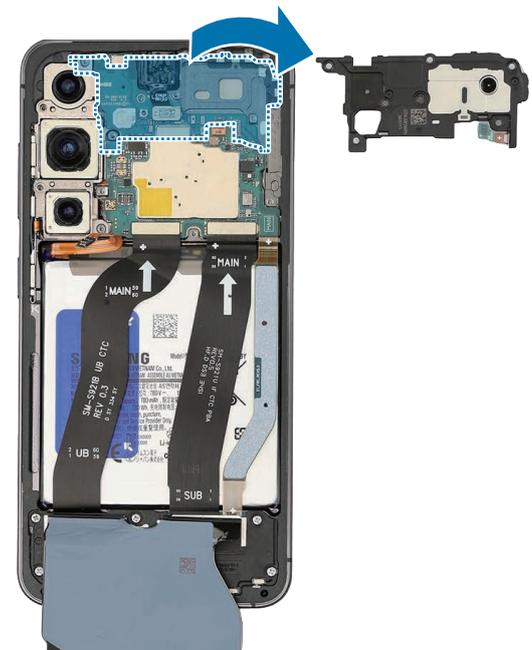
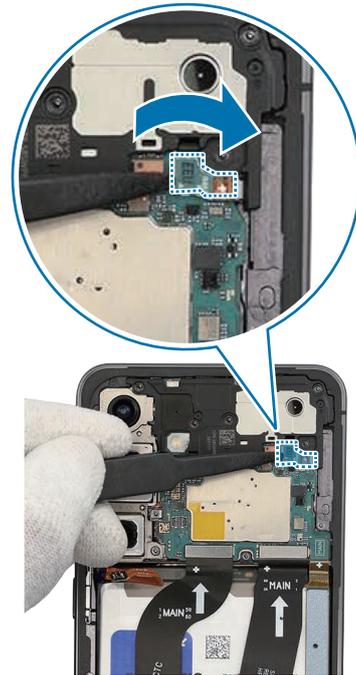
- Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.



- Be careful not to damage the main board and near components.
- Be careful not to damage the NFC antenna connector and the FPCB cables.
- 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.



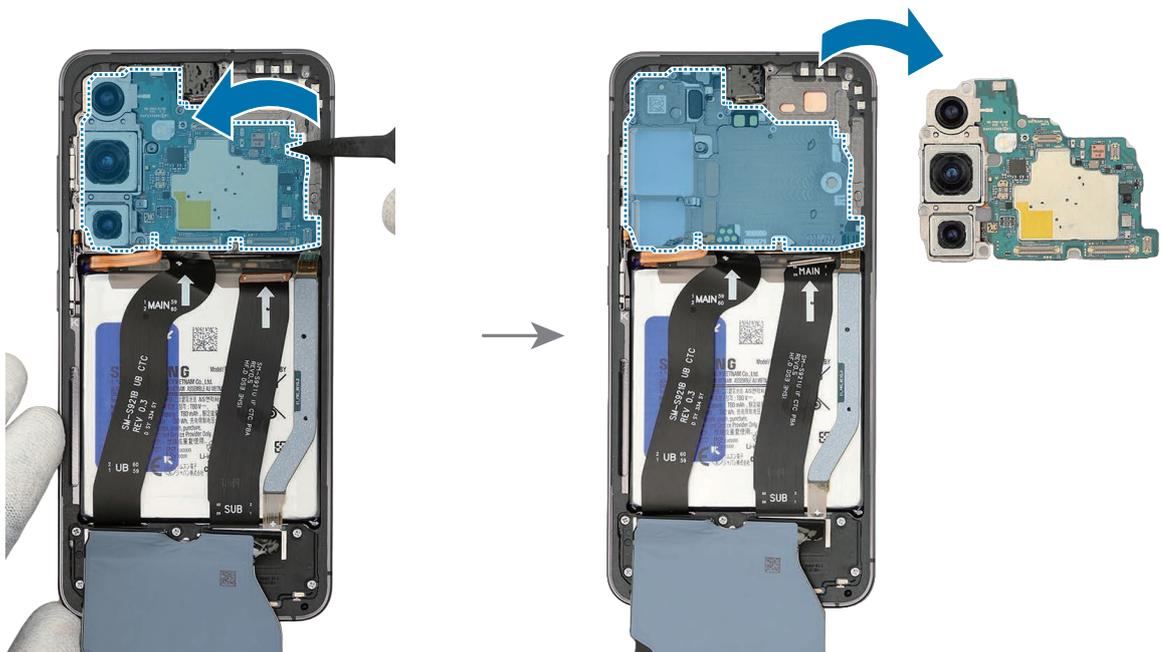




3 Using the tweezers, separate the front camera connector and 3 flex cable connectors from the main board. Using the tweezers, lift up on the separator groove of the main board, and remove it carefully.

 Be careful not to damage the battery.

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



4 Heat the microwaveable heating bag and apply it to both the front and back sides of the front camera module for 3 minutes.



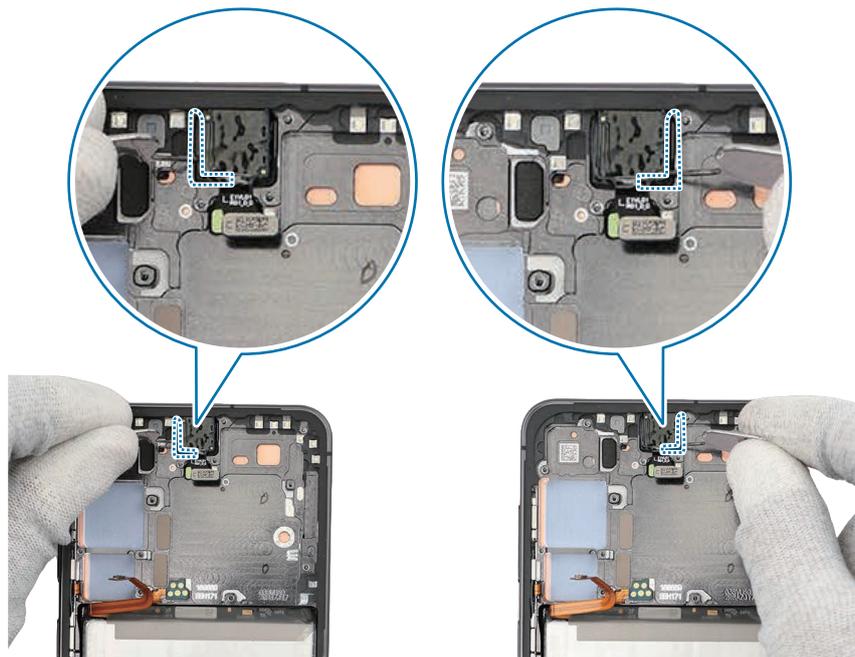
- It is possible for the device or battery to be damaged by heat.
- Do not heat the device in a microwave. Doing so could cause an explosion.
- If your device's glass breaks, the debris can cause injury to your hands or other body parts. For your safety, attach an acrylic protective cover before disassembling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

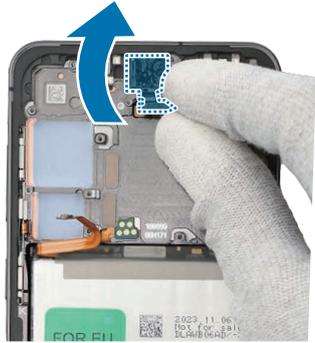


- Follow the heating bag's instructions for heating. The recommended time for heating the bag is 50 seconds in a 1000 W microwave and 70 seconds in a 700 W microwave. (Correct temperature for use: 55-65 °C)
- Be careful not to damage the device through excessive heat. (It is recommended to disassemble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



- 5 Before the heat cools with the heating bag applied, remove the adhesive between the front camera and the screen module using the SIM card tray ejection pin. Then, remove the front camera carefully using your fingers, and leave the camera lens facing up.
- ⚠ As the adhesive securing the camera is very strong, work slowly.
 - 👉 If you have trouble removing the adhesive, heat the microwaveable heating bag additionally, and apply it to the front camera module to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.





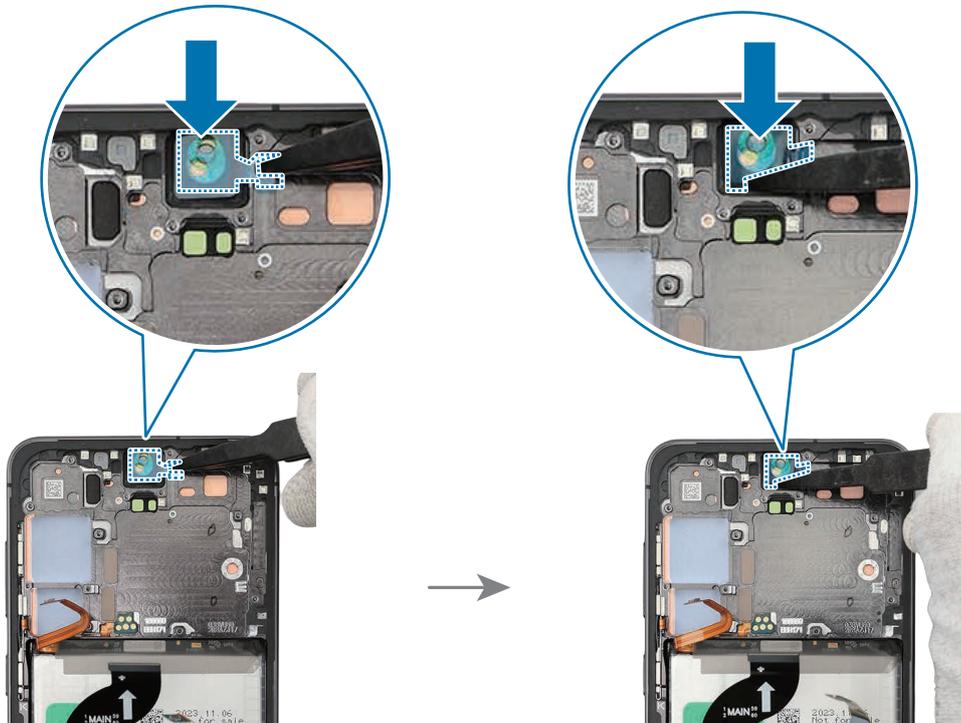
Reassembly

 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.

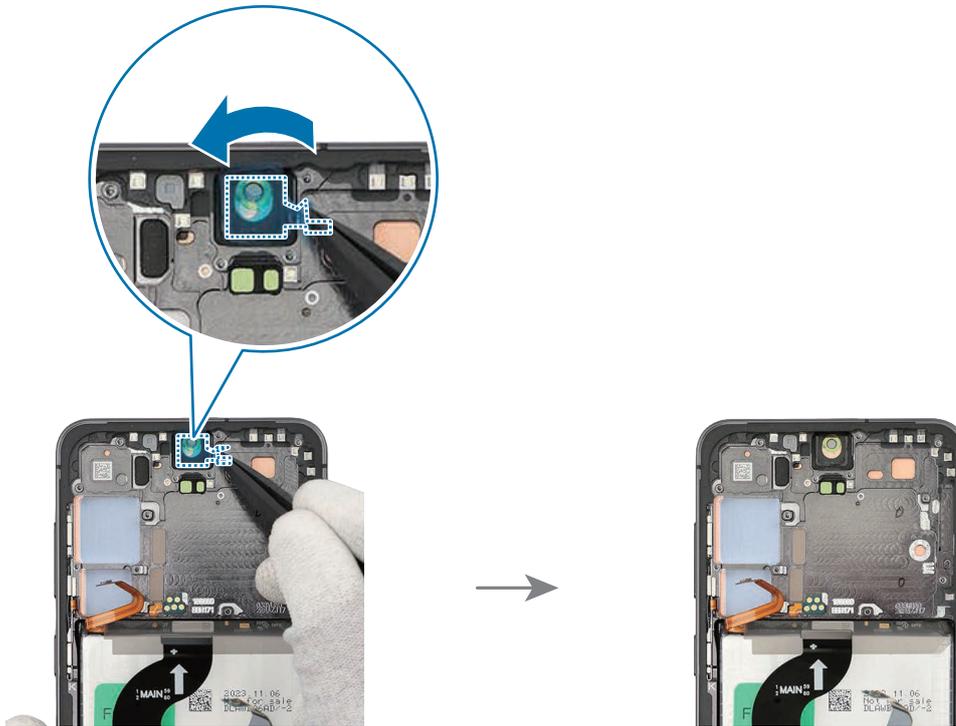
- 1 Using the tweezers, remove the adhesive and tape from the front camera hole completely.



- 2 Remove the clear film from the new front camera adhesive tape with the tweezers and attach it to the front camera hole. Gently press down the tape with the tweezers so that the tape can be attached well.
-  Using the tweezers, align the outside shape of the tape with the position of the camera hole and attach it accurately.



- Using the tweezers, hold the protruding clear film of the attached tape and remove it carefully.

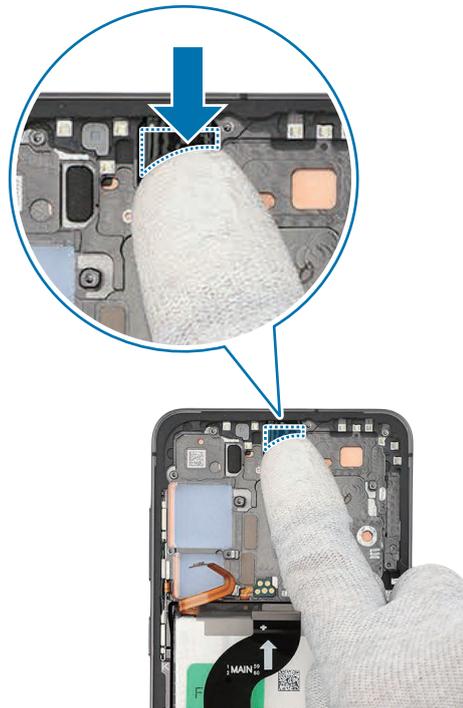


4 Using the tweezers or your fingers, place the front camera in the camera hole so that the lens faces forward, and gently insert the front camera.

- ⚠ • Be sure to place the camera in the correct position.
- Be careful not to damage the camera lens.
- Be careful not to damage and scratch the camera module.

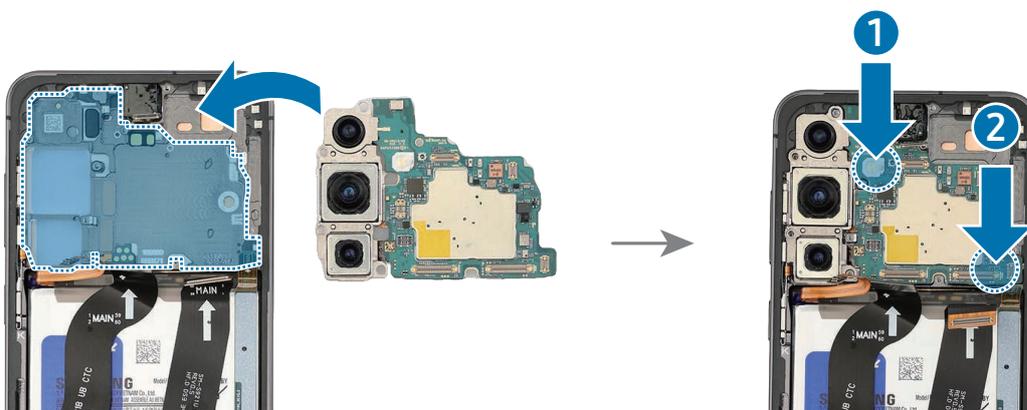


- 5 Press down softly and evenly on the camera module so that the front camera can be fully inserted.



- 6 Align the main board module onto the device frame. After attaching the upper part of the main board diagonally on the screen module, assemble the lower part.

- ⚠ Be careful not to damage the battery.
- ⚠ • Be careful not to damage the battery connector.
- The FPCB cables have to be positioned outside so as not to interfere when assembling the main board.



7 Using the tweezers or your fingers, connect the front camera connector and the 3 flex cable connectors on the main board.

⚠ Be careful not to damage the battery.

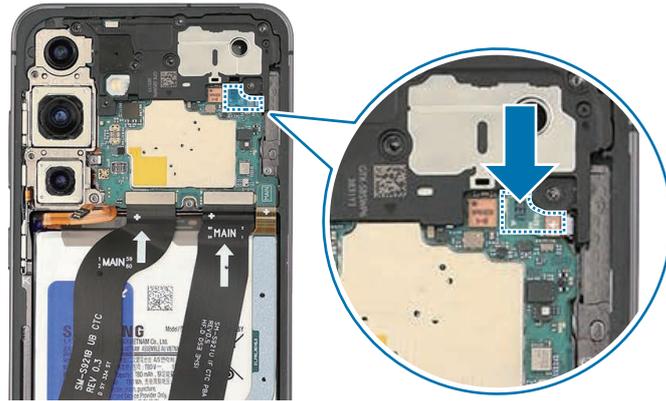
⚠ Be careful not to damage the main board.



8 Using the tweezers or your fingers, place the rear top in the correct location and gently press down to secure it in its position until you hear a locking sound. Then, connect the top FRC connector to the main board.

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

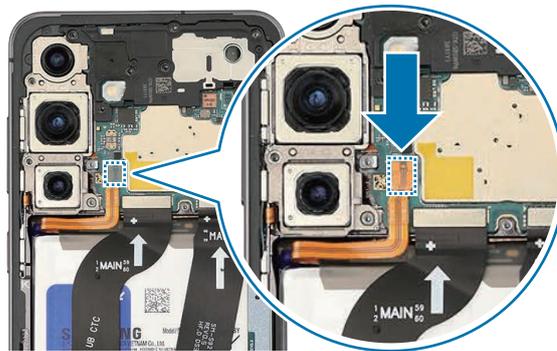




9 Connect the battery connector to the main board.

⚠ Be careful not to damage the battery.

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



10 Hold the tilted wireless charging module using the tweezers or your fingers and carefully assemble it to its original state.

 Be careful not to damage the battery.

-  • Be careful not to damage the NFC antenna connector and the FPCB cables.
- 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.



11 Connect the NFC antenna connector to the main board.

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

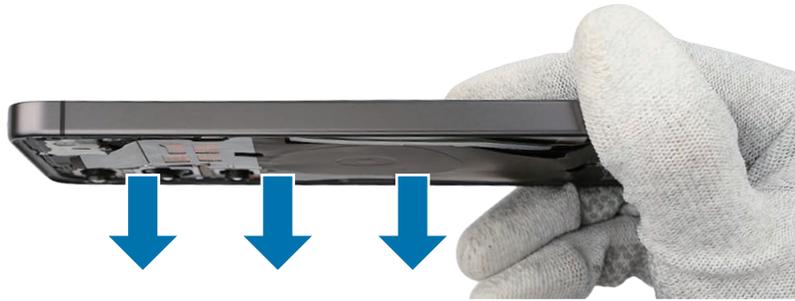


12 Check the screw 3428 (13 ea) at the 13 different points on the top of the rear and fasten them using a cross-head screwdriver.

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



- 13 Check carefully with your fingers to see if there are any screws or other foreign substances inside the device (battery, PBA, cable, etc.). Shake the device lightly with the back of the device facing down to remove any remaining screws.



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

Rear Camera

Disassembly

 Remove the [Back Cover](#) first before you begin.

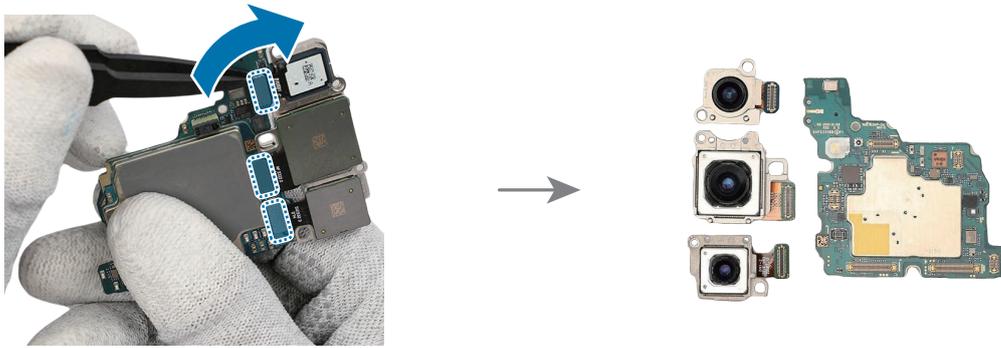
- 1 Check for the disassembly steps of the [Front Camera](#) and completely separate the main board with the rear cameras.



2 Disconnect the rear camera connectors from the main board using the tweezers, and remove the rear cameras carefully from the main board. Leave the camera lens facing up.

⚠ Be careful not to damage the main board.

✍ Separate and replace only the problematic camera.

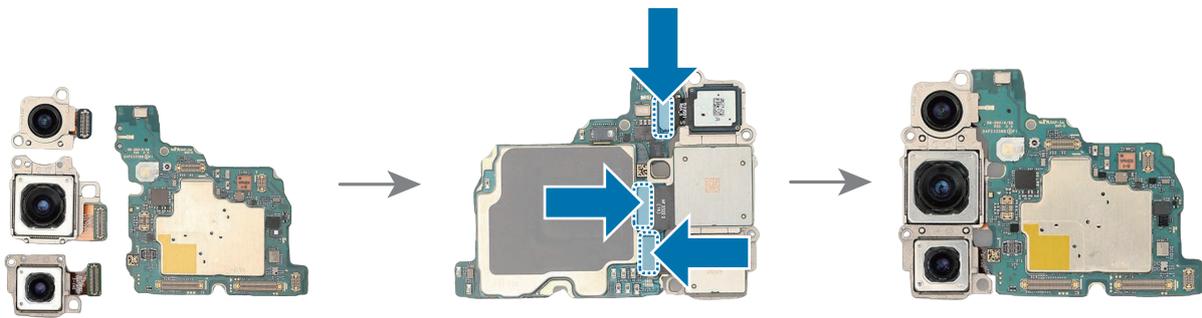


Reassembly

⚠ 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 your fingers, connect the rear camera connectors on the main board. Leave the camera lens facing up.

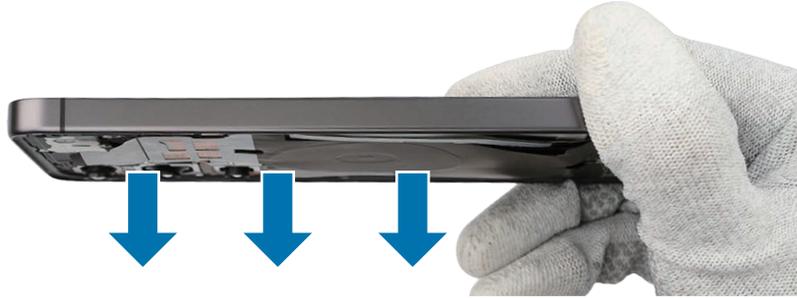
- ⚠** • Be careful not to drop the camera while connecting the connector.
- Be careful not to damage the camera lens and near components.
- Be careful not to damage the main board.



2 Check for the reassembly steps of the [Front Camera](#) and completely reassemble the wireless charging module and speaker module.



- 3 Check carefully with your fingers to see if there are any screws or other foreign substances inside the device (battery, PBA, cable, etc.). Shake the device lightly with the back of the device facing down to remove any remaining screws.



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

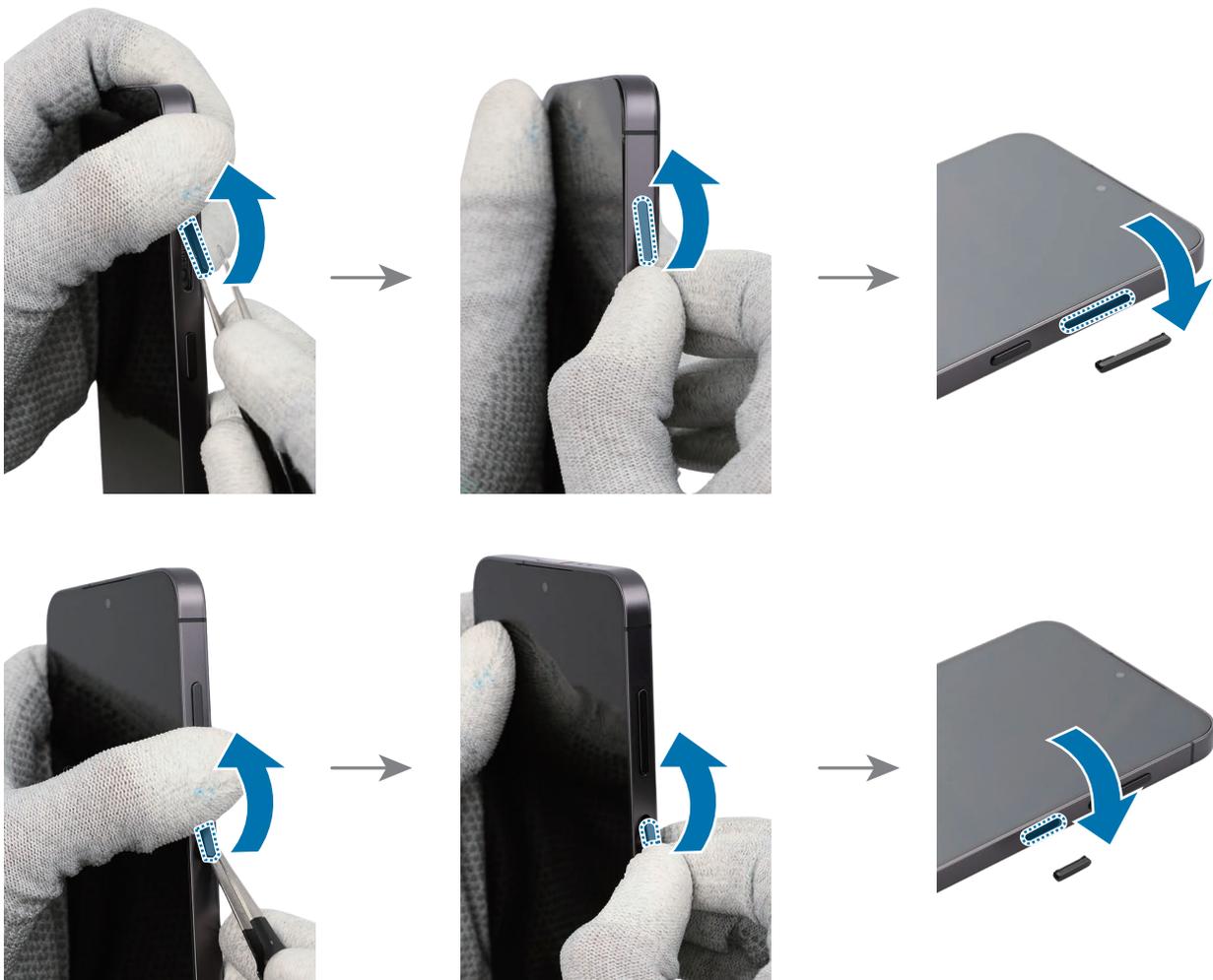
Button

Disassembly

To remove the Volume button or the Side 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.

1 Remove the release film of the new Volume button. Using your fingers, grab the Volume button and insert the button into the slot carefully.

 Be careful not to damage the button and device.



2 Press down the Volume button softly and evenly so that the button can be completely assembled. Press the button to make sure it clicks. It should have the same sound and feel as before disassembly.



3 Remove the release film of the new Side button. Using your fingers, grab the Side button and insert the button into the slot carefully.

⚠ Be careful not to damage the button and device.



4 Press down the Side button softly and evenly so that the button can be completely assembled. Press the button to make sure it clicks. It should have the same sound and feel as before disassembly.



Screen

Disassembly

- ⚠ When removing the screen, ensure that the device is fixed on a flat surface.
 - ✍ Remove the [Back Cover](#) first before you begin.
- 1 Check the 20 screws on the top and bottom of the rear and remove them using a cross-head screwdriver.
- ⚠ Be careful not to damage the main board 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.



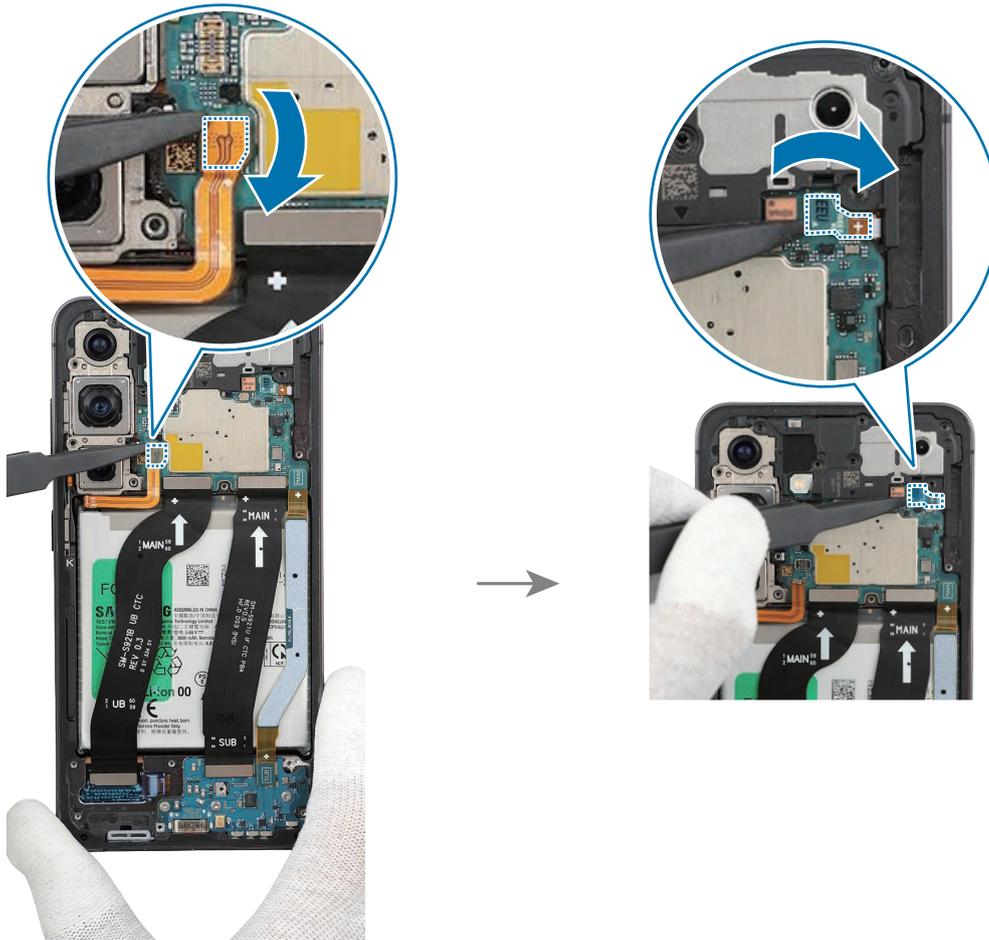
2 Using the tweezers, separate the NFC antenna connector. Place the tweezers in the left corner of the bottom speaker module, tilting the speaker module so it is slanted more than 90°. Using the tweezers, lift up the speaker module carefully and pull it out from the device. Separate the wireless charging module and speaker module simultaneously from the device.

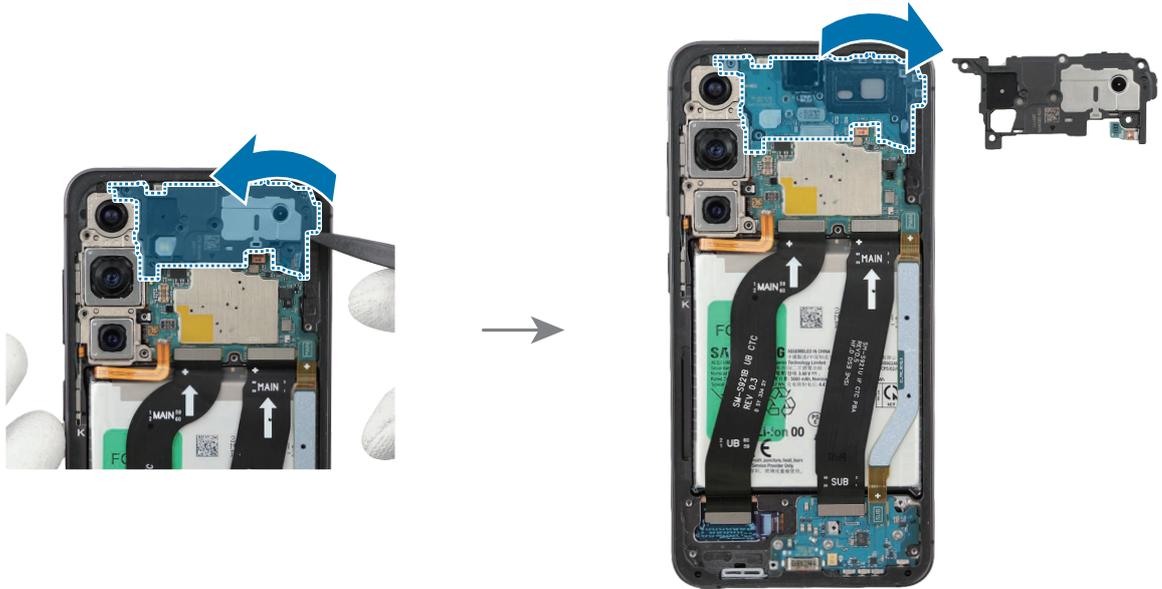
- ⚠ Be careful not to damage the NFC antenna connector and the FPCB cables.
- Be careful not to tear any connected components near the wireless charging module.
- Ensure that the wireless charging module is unfolded to prevent damaging the FPCB.



3 Using the tweezers, disconnect the battery connector from the main board. Using the tweezers, disconnect the top FRC connector and lift up on the separator groove of the rear top and remove it carefully.

- ⚠ • 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 battery connector, main board, and near components.

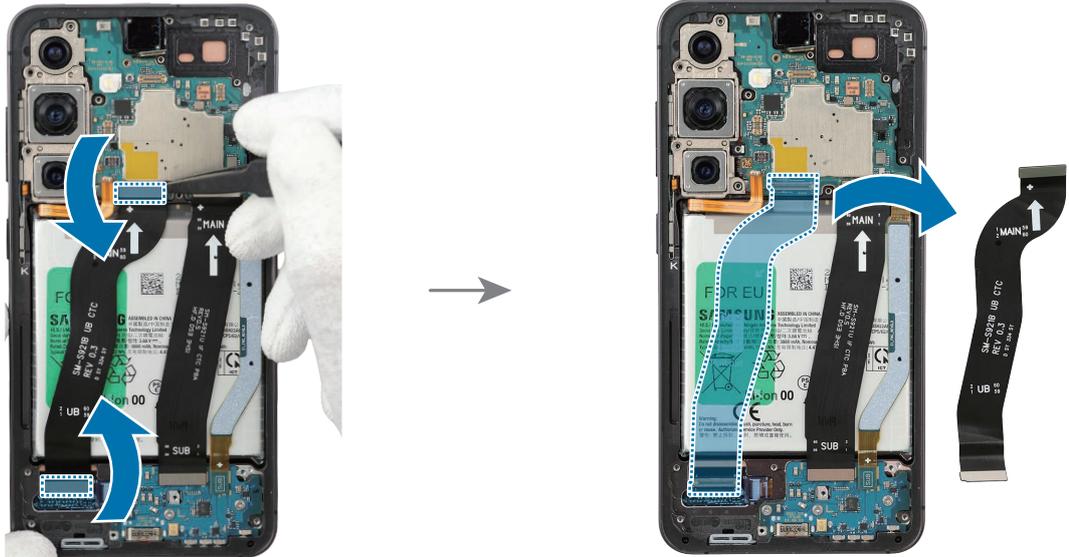




4 Using the tweezers, disconnect the front camera connector. Using the tweezers, disconnect the 2 flex cable connectors and remove the flex cable completely.

⚠ When removing the connectors, be careful not to damage the cable.

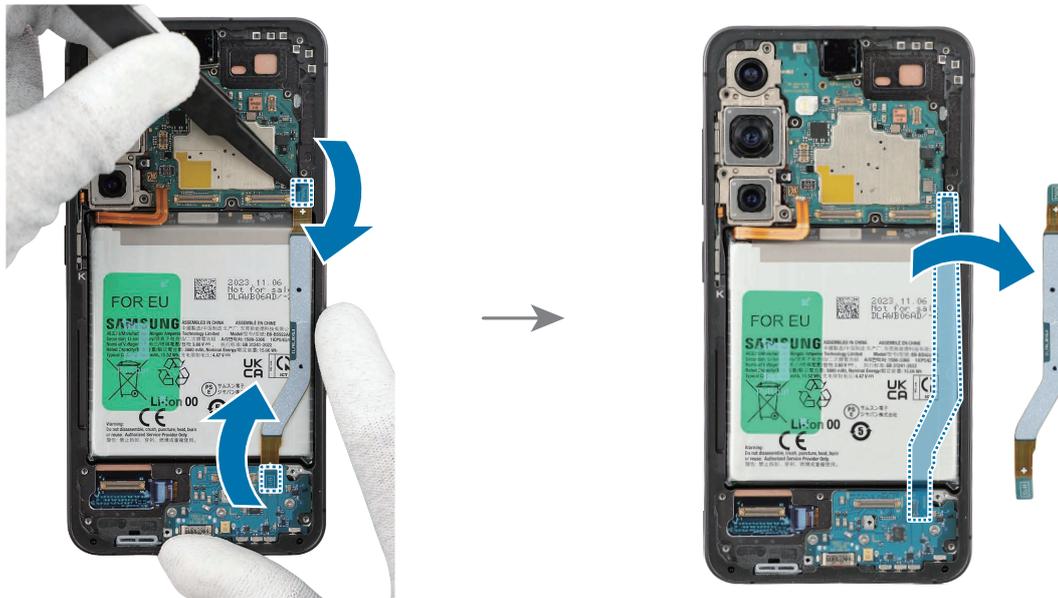




- 5 Using the tweezers, disconnect the 2 flex cable connectors and remove the flex cable completely.



- 6 Using the tweezers, disconnect the 2 flex cable connectors and remove the flex cable completely.



- 7 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 battery connector, main board, and near components.
- The FPCB cables have to be positioned outside so as not to interfere when disassembling the main board.



8 Heat the microwaveable heating bag and apply it on the front of the screen for 5 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 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.)



9 Place the suction cup in the left edge of the screen, and lift it upwards carefully.

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



 Be careful that the suction cup does not adhere to the area where the tape or sticker is attached.

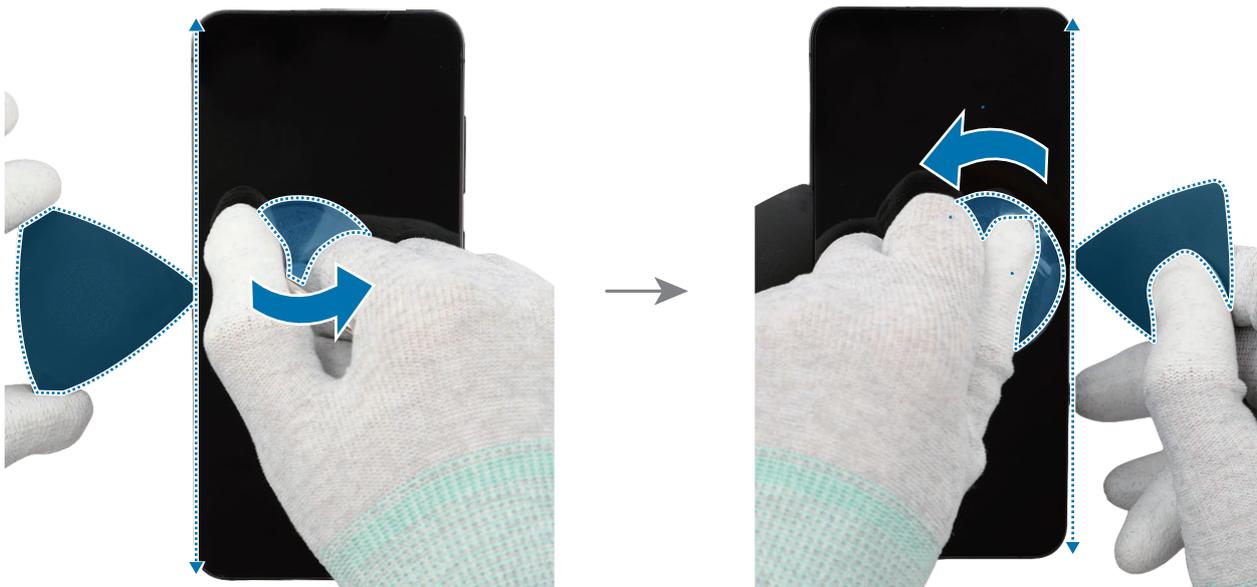
 If you have trouble creating a gap, heat the microwaveable heating bag additionally, and apply it on the screen to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.

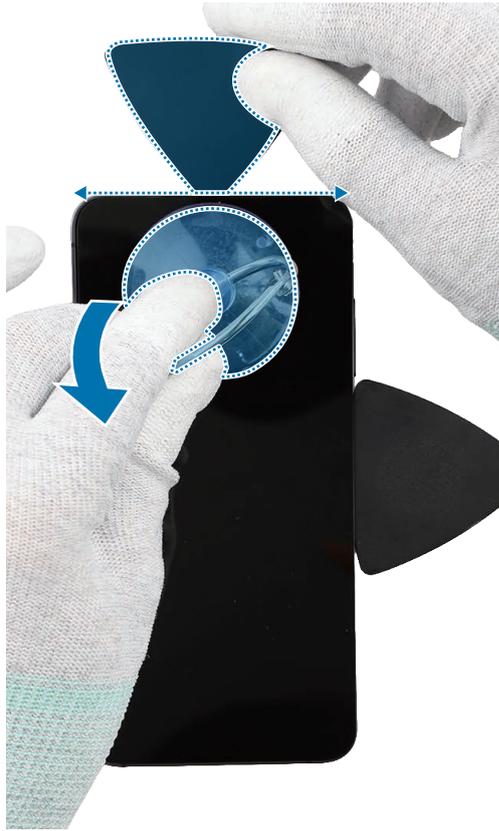


10 While pulling up the suction cup with strong, steady force to create the gap between the screen and the metal frame, place the opening pick in the gap and slide the opening pick back and forth along the edge to slice through the adhesive. Repeat this on the left, right, top side of the screen and slice through the adhesive. Then, lift up from the top of the screen slowly and remove the screen gently from the device.

⚠ As the internal circuitry can be damaged, do not insert the opening pick more than 3 mm. Especially, be careful not to damage the front camera at the top by the opening pick.

- ✔ Make sure to leave the opening pick inserted in the edges to prevent the adhesive from resealing. It is recommended that a large 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 screen to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.







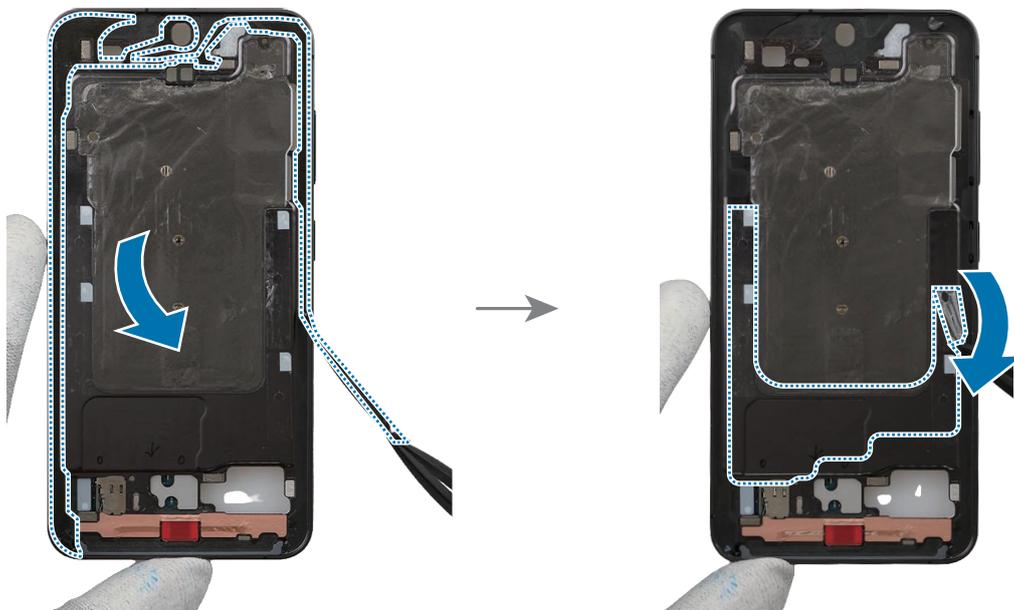
Reassembly

⚠ 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.

⚠ Before attaching the 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.).

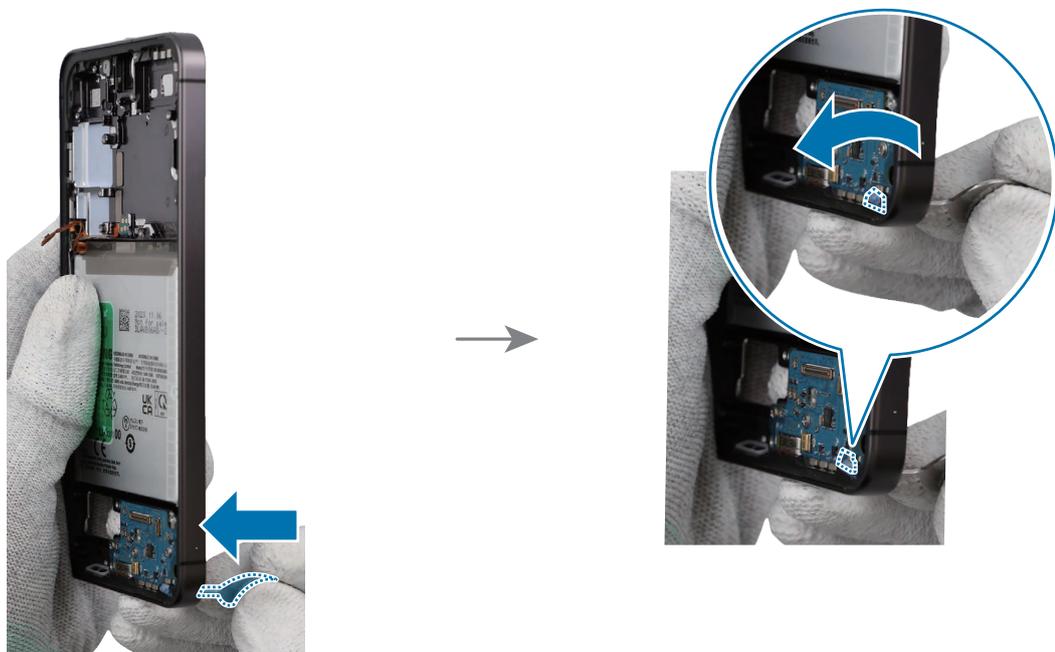
1 Using the tweezers and your fingers, remove all adhesive tapes on the metal frame.

- ⚠** • Make sure to remove any residual tapes attached to the metal frame before reassembling the new screen.
- Be careful not to damage the device and near components.

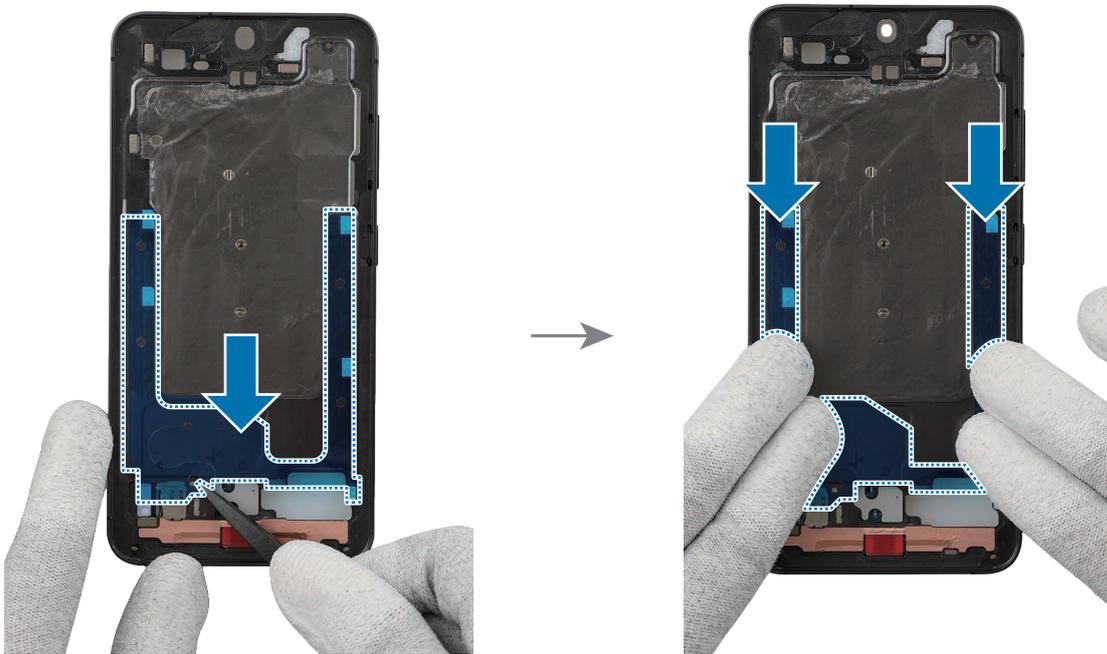


2 Remove the adhesives in the 2 bottom holes. Using the ejection pin, push the adhesives from the inside of the hole and remove the escaped adhesives.

- ❗ • Be sure to remove any residual adhesives from the bottom 2 holes perfectly. Otherwise, the performance of the device's water resistance cannot be guaranteed after reassembling.
- Be careful not to damage the near components.



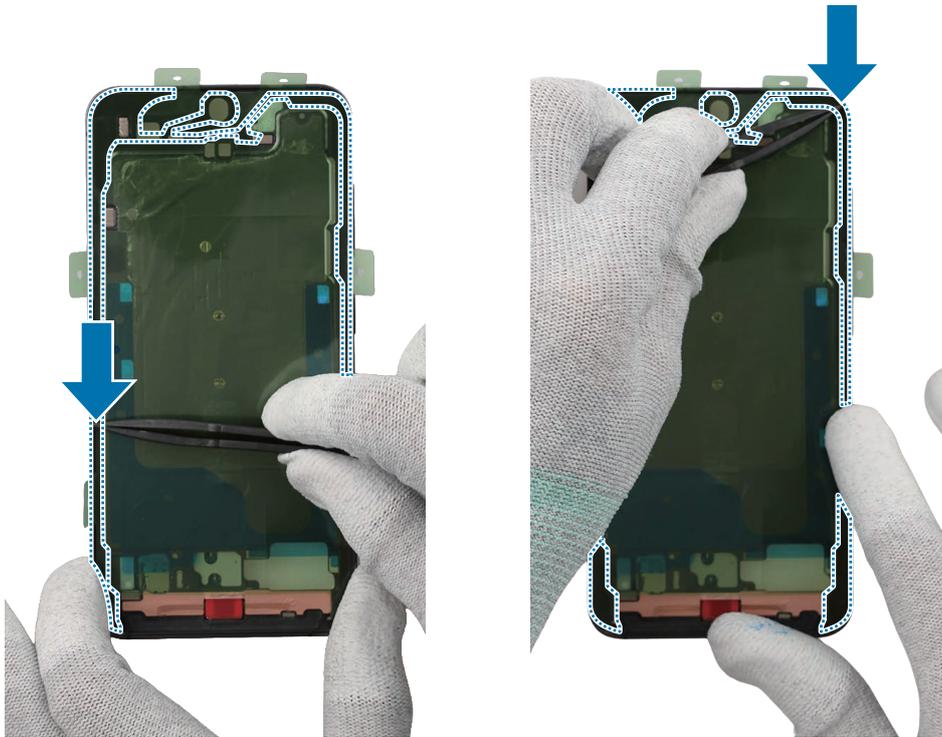
- 3 Remove the transparent film of the new screen middle adhesive tape. Using the tweezers and your fingers, align the tape precisely on the metal frame and attach it. Using your fingers, gently press around the tape to ensure a secure fit.



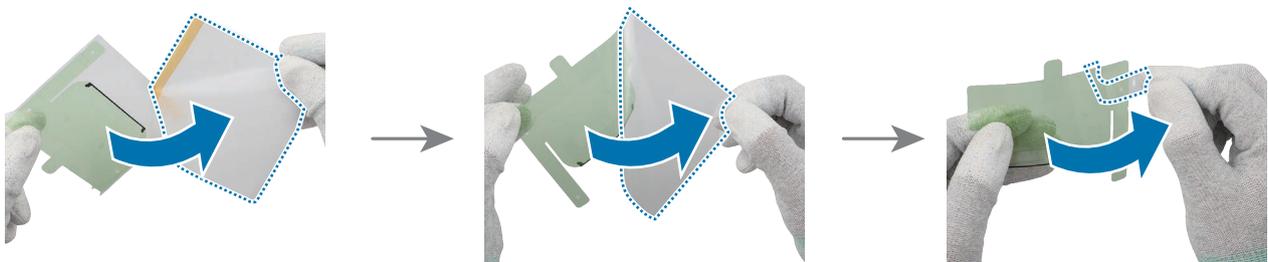
- 4 Remove the transparent film of the new screen side adhesive tape. Using the tweezers and your fingers, align the tape precisely on the metal frame and attach it.



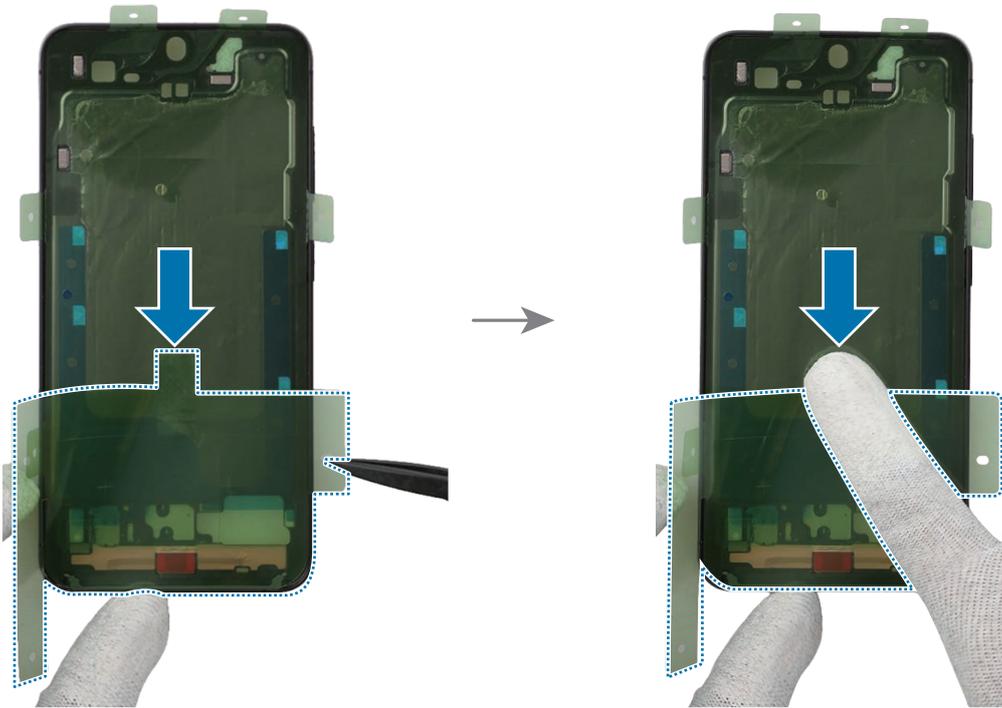
- 5 Using the tweezers and your fingers, gently press around the edges of the tape to ensure a secure fit.



- 6 Remove the 3 release films of the new screen bottom adhesive tape.



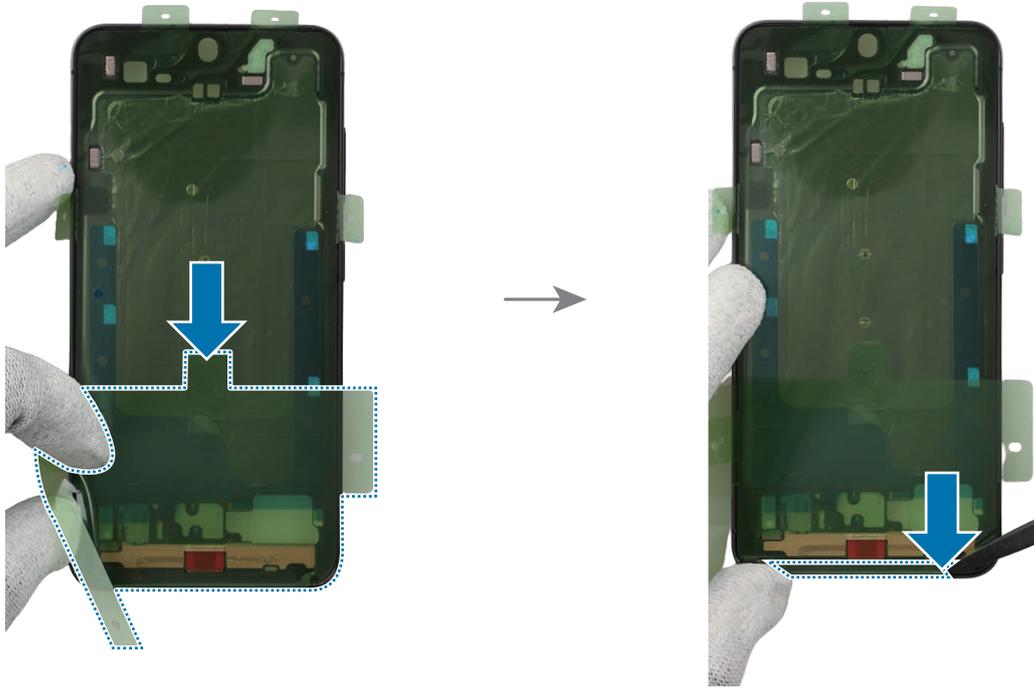
- 7 Using the tweezers and your fingers, align the tape precisely on the bottom of the metal frame and attach it. Using your fingers, gently press the top of the tape to ensure a secure fit.



- 8 Carefully lift the lower part of the screen bottom adhesive tape and remove the release film covering the black adhesive with the tweezers.



- 9 Align the screen bottom adhesive tape precisely on the bottom of the metal frame and attach it completely. Using the tweezers, gently press the black adhesive to ensure a secure fit.

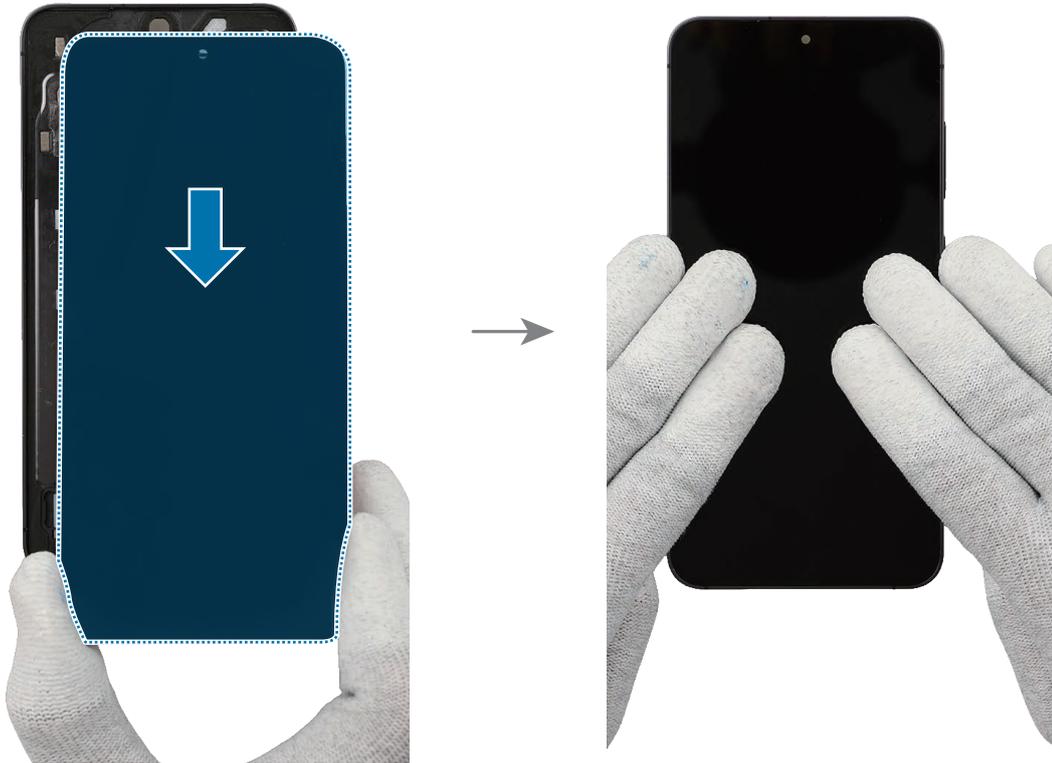


- 10 Using the tweezers and your fingers, remove all release films of the attached adhesive tapes one by one.



- 11 Attach the screen and check the gap between the screen and the metal frame. Press down the all edges of the screen evenly in order to attach the screen perfectly. Ensure that there are no abnormalities.

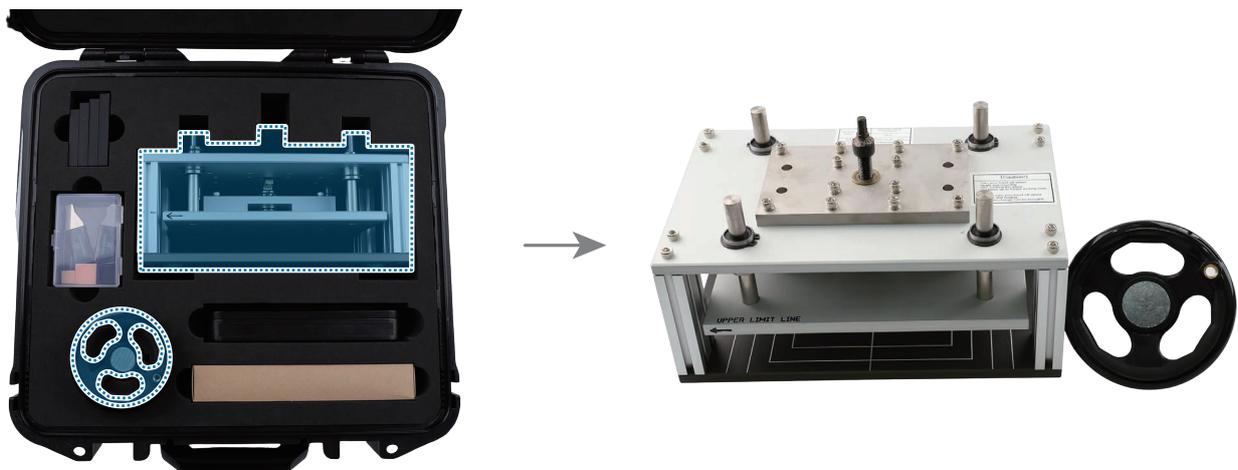
 If you feel some gap, remove the screen and attach it again. Some foreign materials can be inside the device.



12 Now you can press the fully assembled screen using the press fixture. Remove the press fixture body and its handle from the rental tool kit packaging.

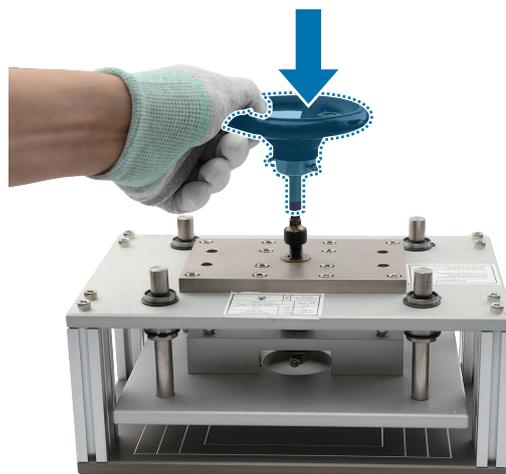
 Keep your hands out of the press fixture to avoid mechanical pinching and injury.

-  • This tool 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 may vary depending on the country and is currently available only in limited countries.
- A rented tool kit packaging may have different packaging than shown.



13 Carefully position the torque limit handle horizontally at the top of the press fixture.

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



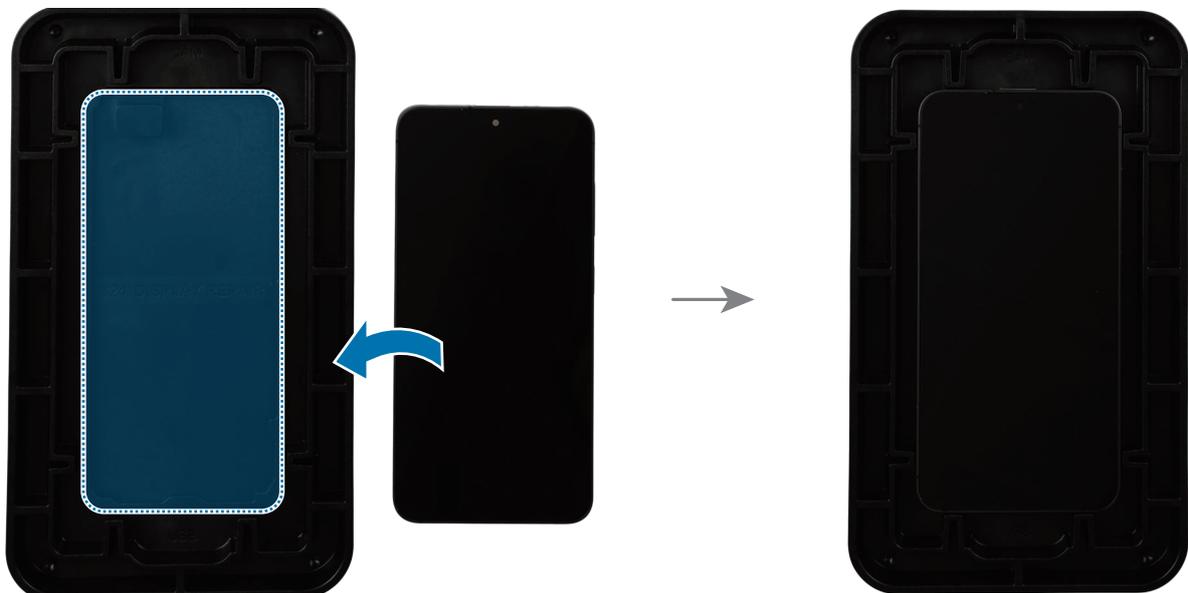
14 Remove the bottom press tray, top press tray, and top rubber pad for the screen from the rental tool kit packaging.

 The top rubber pads for the back cover and screen are different from each other.



15 Leave the bottom press tray so that the side for the screen is visible. Then, place the device into the tray facing up.

-  • You can choose the one side of the bottom press tray depending on the back cover, screen, or battery.
- The bottom press tray may vary depending on the device.



16 Insert the top rubber pad for the screen into the top press tray. Press down the edges of the rubber pad entirely using your fingers and make sure that the pad is pressed in completely.



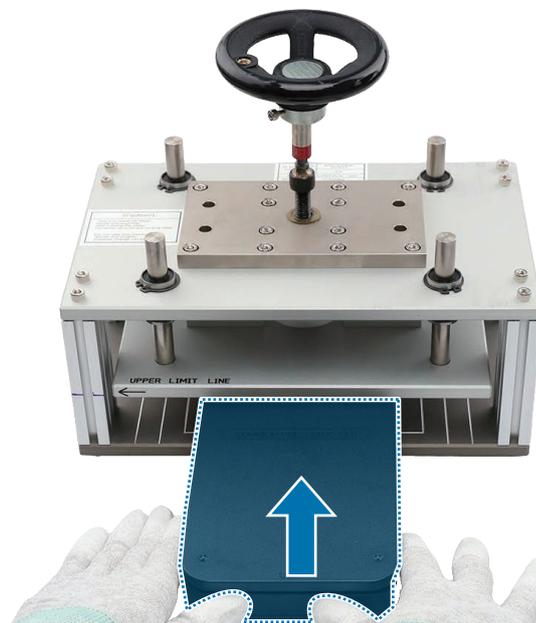
- The rubber pads for the back cover and screen are different from each other.
- The rubber pad may vary depending on the device.



17 Carefully place the top press tray over the bottom press tray.



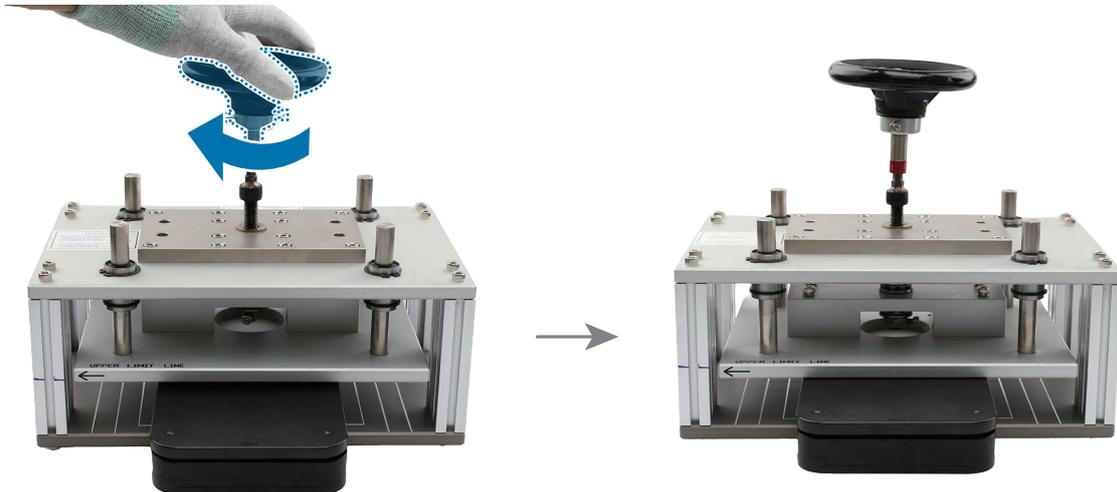
18 Position the top 2/3 of the screen press tray with the device lengthwise in the centre of the press fixture.



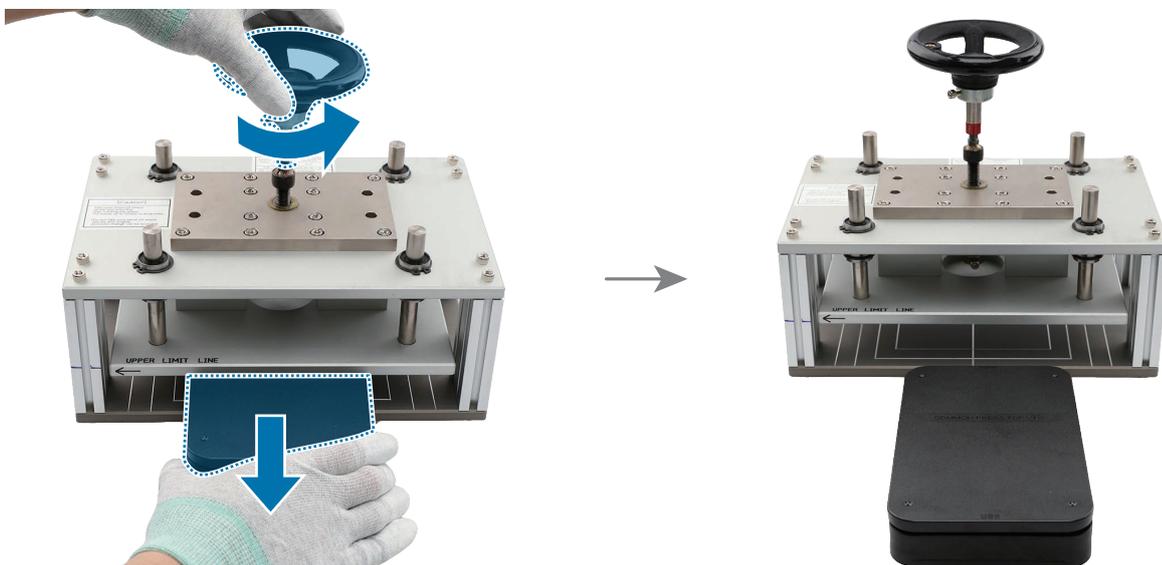
19 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 30 seconds.

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

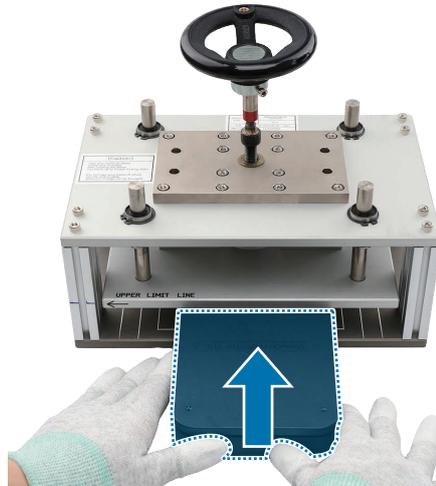
 When you reach the required maximum force (1 N), a sound is made from the handle if you turn the handle.



20 When the press is completed after 30 seconds, rotate the torque limit handle to the anticlockwise and remove the tray from the press fixture.

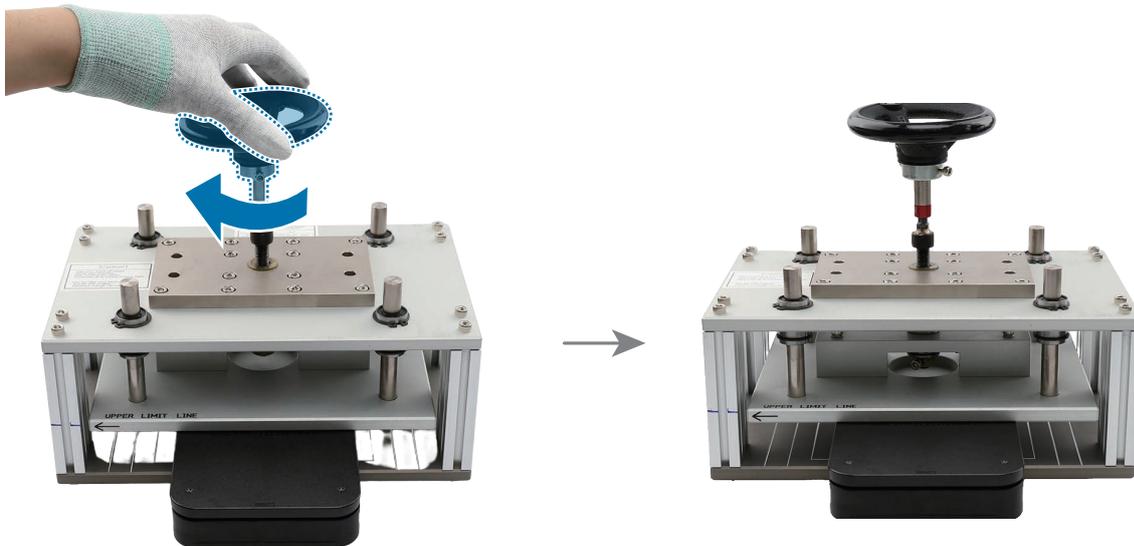


- 21 Position the bottom 2/3 of the screen press tray with the device lengthwise in the centre of the press fixture.

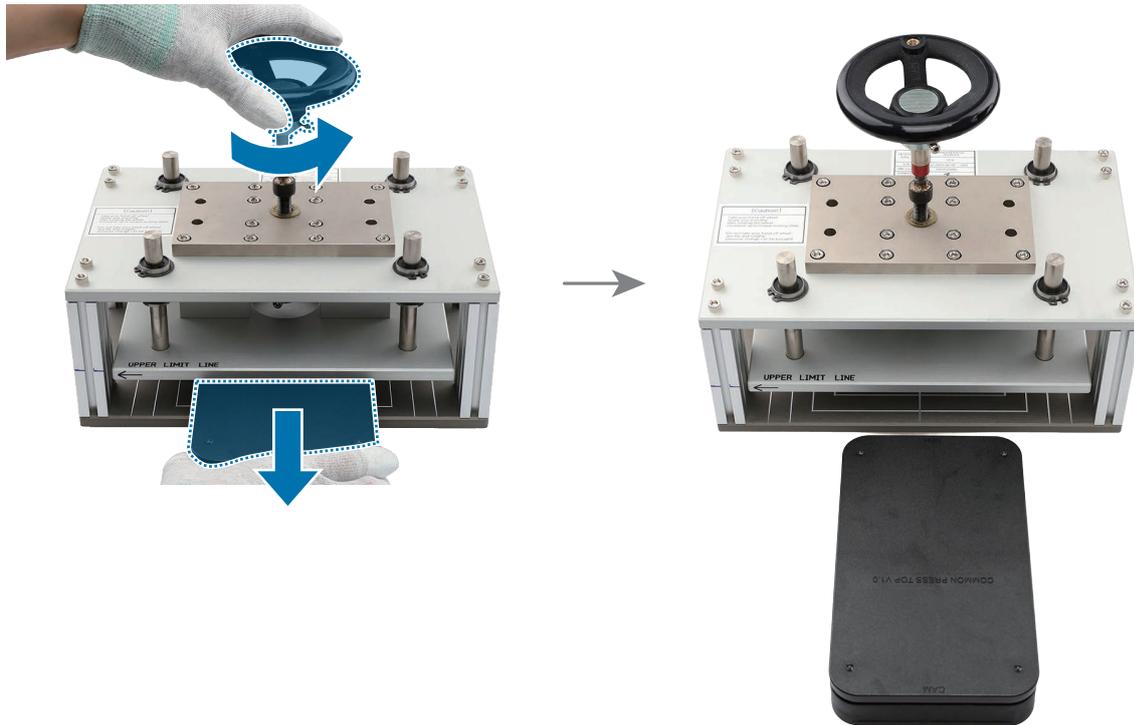


- 22 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray again for 30 seconds.

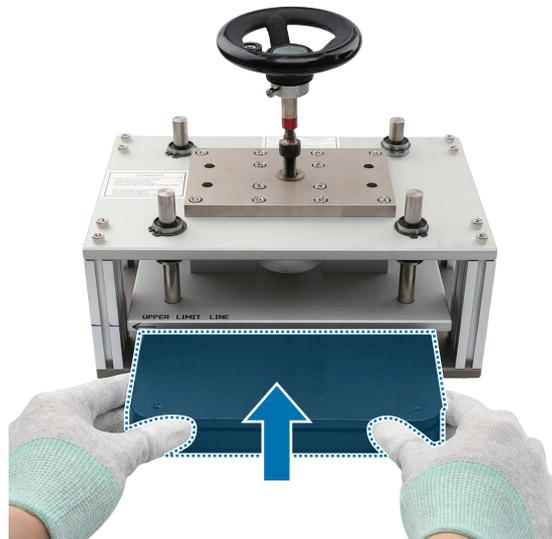
 Keep your hands out the of press fixture to avoid mechanical pinching and injury.



- 23 When the second press is completed after 30 seconds, rotate the torque limit handle to the anticlockwise and remove the tray from the press fixture.

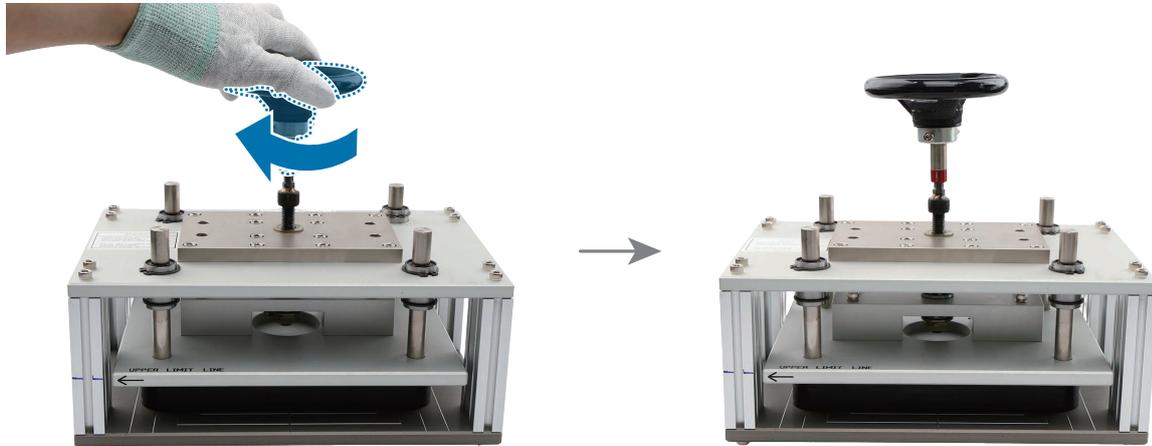


- 24 Position the entire screen press tray with the device horizontally in the centre of the press fixture.

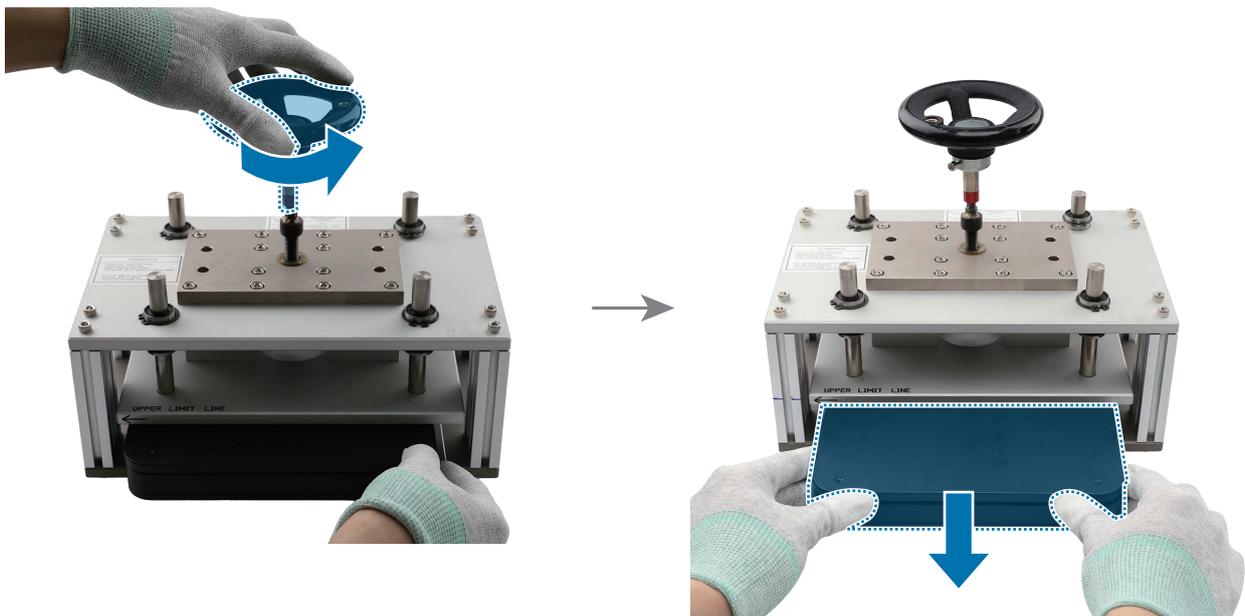


25 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 30 seconds.

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



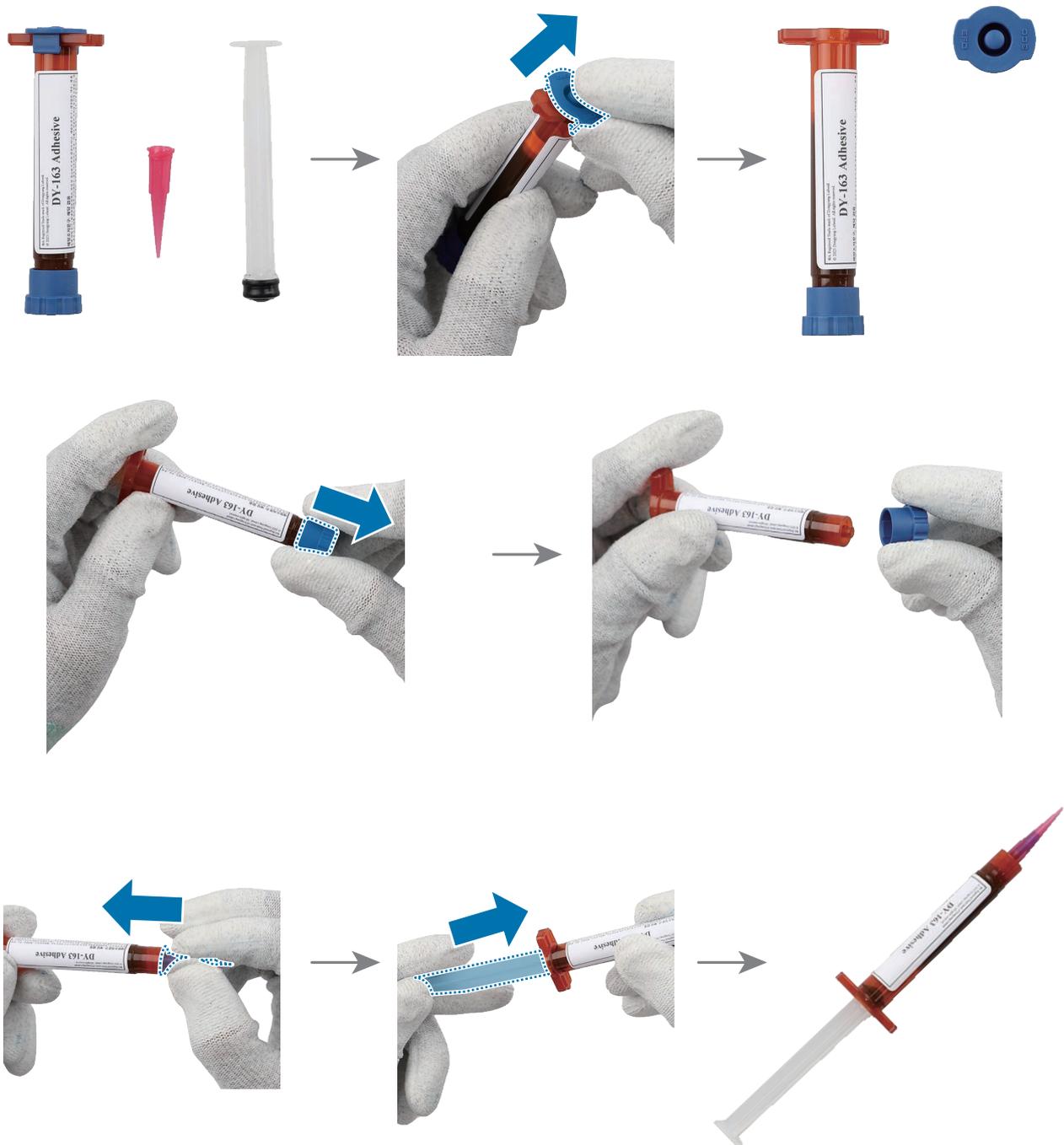
26 When the third press is completed after 30 seconds, rotate the torque limit handle to the anticlockwise and remove the tray from the press fixture.



27 Remove the device carefully from the tray.



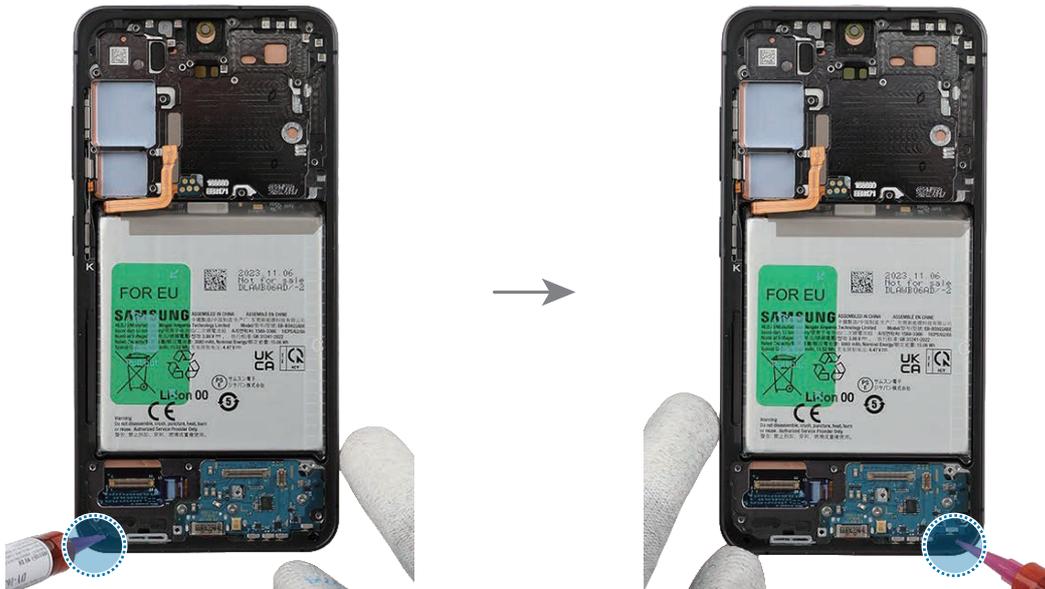
28 Prepare the CIPG adhesive, disposable piston, and disposable needle. Open the both end caps of the CIPG adhesive and assemble it with the needle and piston one by one.



29 Before using the CIPG adhesive for the first time, apply it to a tissue or a paper for about 3 seconds and discard the first part of the adhesive. After then, carefully apply the adhesives properly into the 2 bottom holes. Stay in that condition for about 90 minutes so that the adhesive is completely dried.

- ⚠ • 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 90 minutes while drying the adhesive.





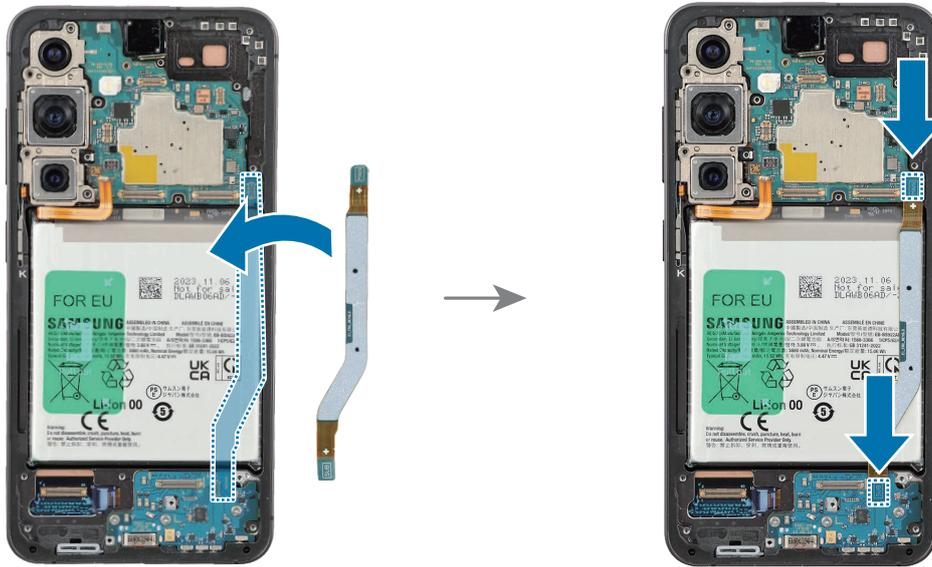
30 Align the main board module onto the device frame. After attaching the upper part of the main board diagonally on the screen module, assemble the lower part.

- ⚠ Be careful not to damage the battery.
- ⚠ • Be careful not to damage the battery connector.
- The FPCB cables have to be positioned outside so as not to interfere when assembling the main board.

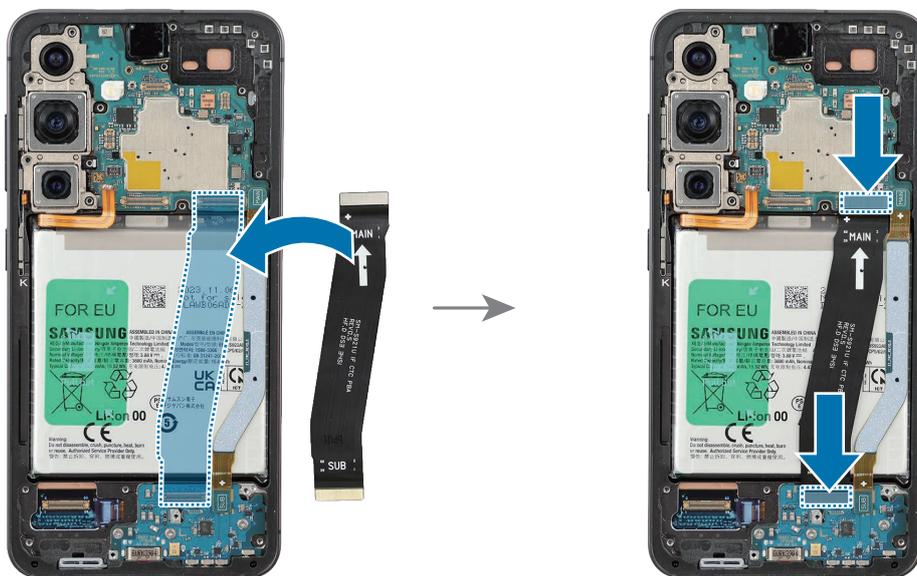


31 Place the flex cable to the device frame and connect the 2 flex cable connectors carefully.

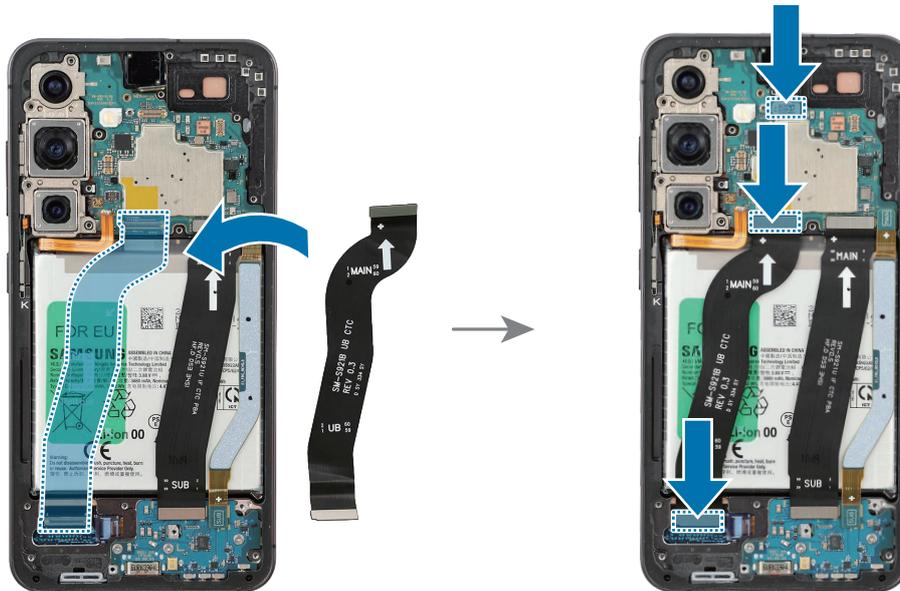
- ❗ • Be careful not to damage the main board and near components.
- When connecting the connectors, be careful not to damage the cable.



32 Place the flex cable to the device frame and connect the 2 flex cable connectors carefully.

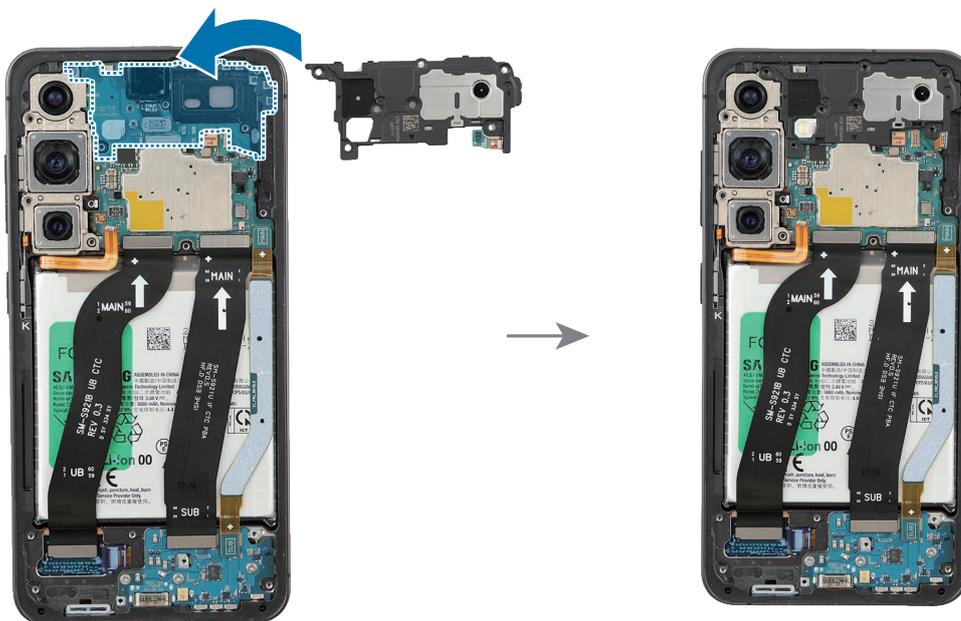


- 33 Place the flex cable to the device frame and connect the 2 flex cable connectors carefully. Then, connect the front camera connector to the main board.

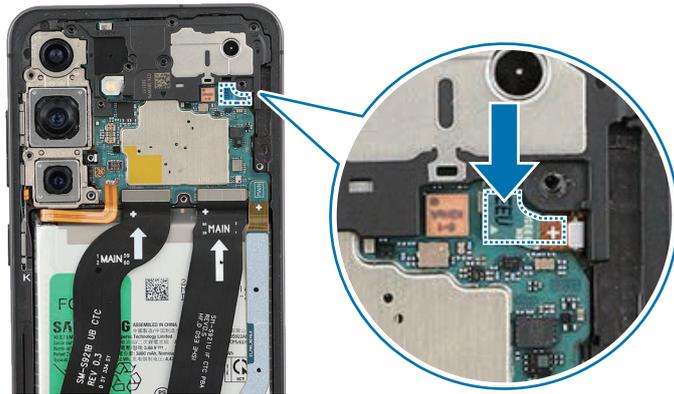


- 34 Using the tweezers or your fingers, place the rear top in the correct location and gently press down to secure it in its position until you hear a locking sound.

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



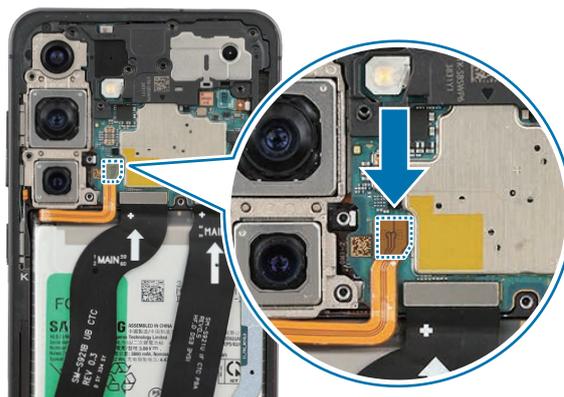
35 Connect the top FRC connector to the main board.



36 Connect the battery connector to the main board.

 Be careful not to damage the battery.

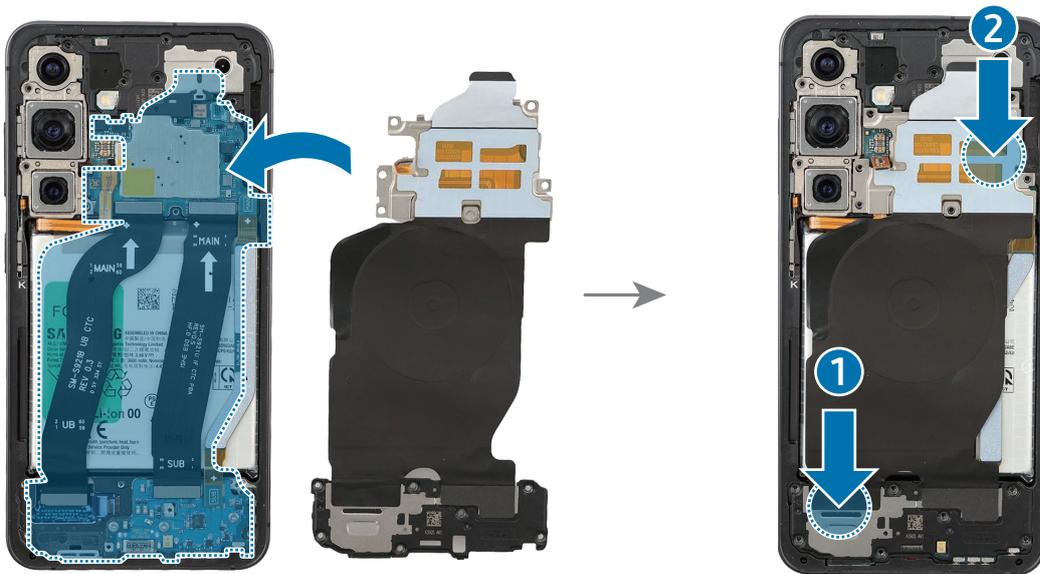
 Be careful not to damage the battery connector and near components.



37 Using the tweezers and your fingers, assemble the lower part of the speaker module first, and press down on it in its position with your fingers until you hear a locking sound. Assemble the upper side of the wireless charging module above the main board and press down on it in its position with your fingers.

 Be careful not to damage the battery.

-  • When attaching the wireless charging module, make sure that it fits to the device's form.
- Be careful not to damage the main board and near components.



38 Connect the NFC antenna connector.

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

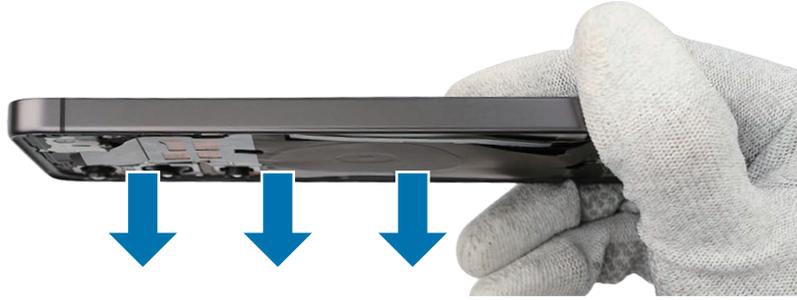


39 Check the screw 3428 (20 ea) at the 20 different points on the top and bottom of the rear and fasten them using a cross-head screwdriver.

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



- 40 Check carefully with your fingers to see if there are any screws or other foreign substances inside the device (battery, PBA, cable, etc.). Shake the device lightly with the back of the device facing down to remove any remaining screws.



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

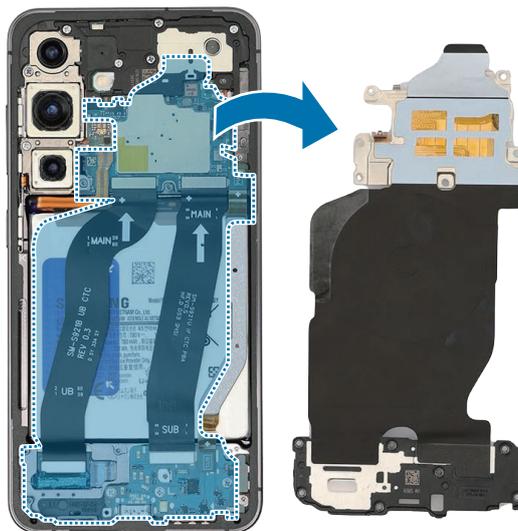
Battery

 The separated battery may be damaged. Do not use it again.

Disassembly

 Remove the [Back Cover](#) first before you begin.

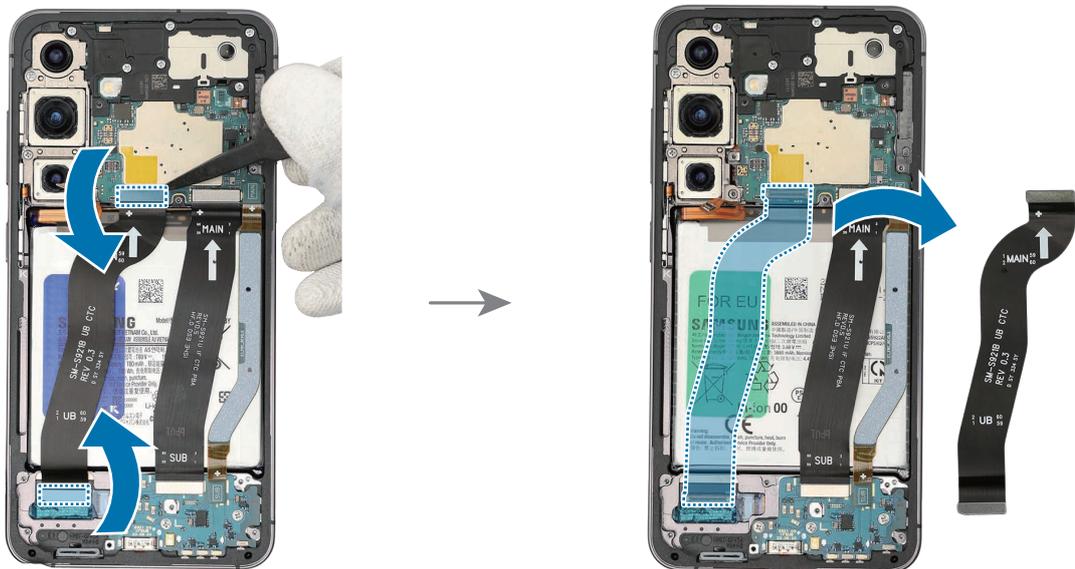
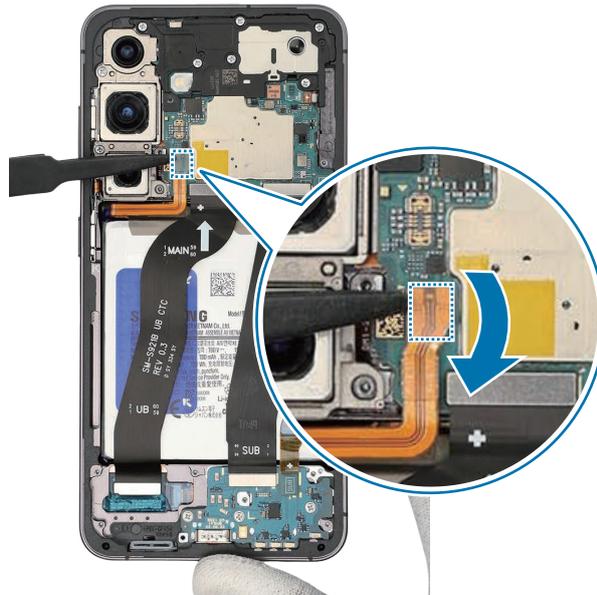
- 1 Check for the disassembly steps of the [Bottom Speaker](#) and completely separate the wireless charging module and speaker module.



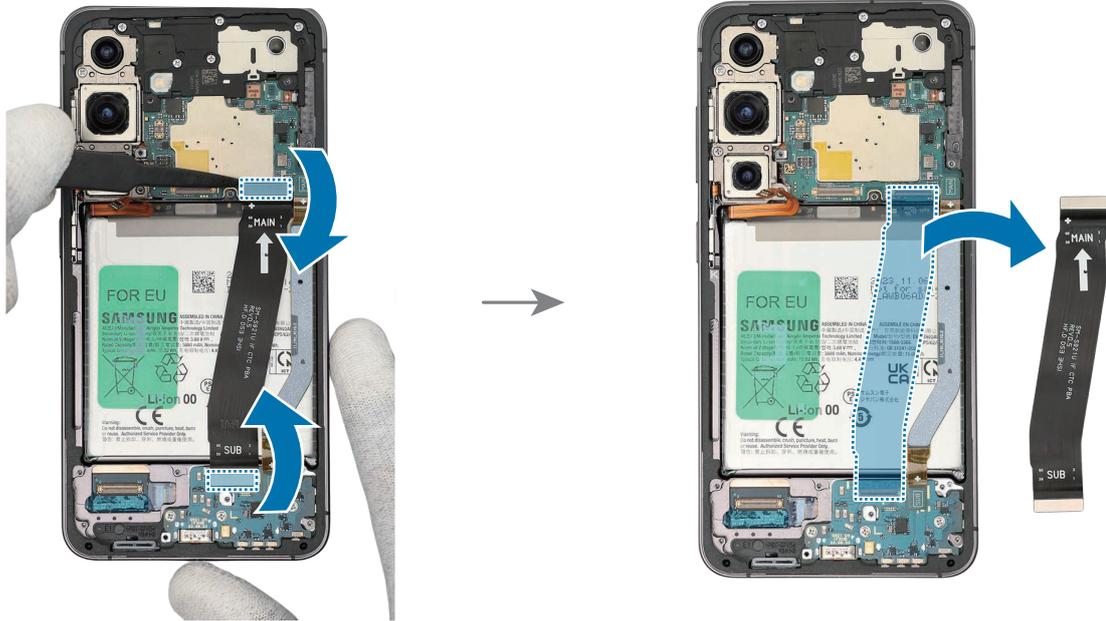
- Using the tweezers, disconnect the battery connector first from the main board. Using the tweezers, disconnect the 2 flex cable connectors and remove the flex cable completely.

 Make sure to first disconnect the battery connector for your own safety.

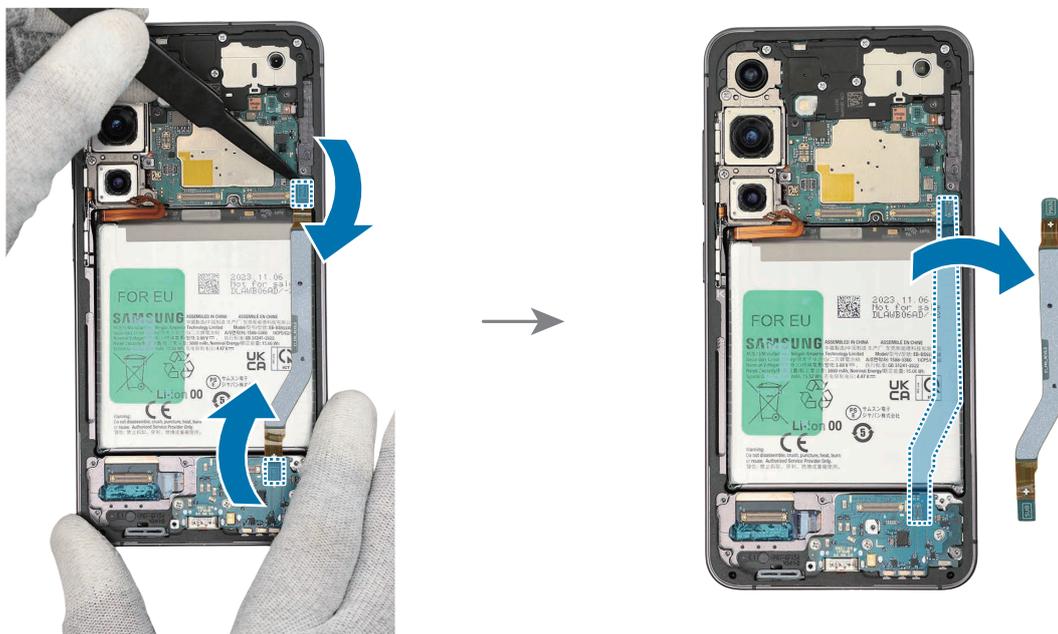
-  When removing the connectors, be careful not to damage the cable.
- Be careful not to damage the near components.



- 3 Using the tweezers, disconnect the 2 flex cable connectors and remove the flex cable completely.



- 4 Using the tweezers, disconnect the 2 flex cable connectors and remove the flex cable completely.



5 Using your fingers, grab the tape attached to the left side of the battery and separate it carefully from the battery. Then, grab the tape handle with your fingers and pull it up carefully. Slowly lift up the battery from the device and remove it completely.



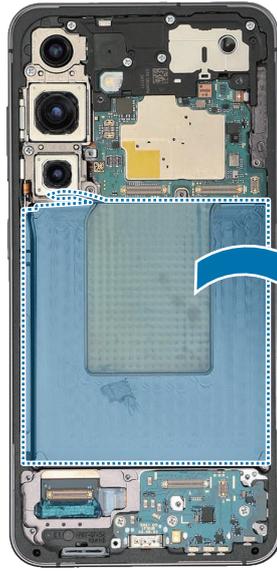
The separated battery may be damaged. Do not use it again.



- 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 the connectors.



Disassembly and Assembly



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.

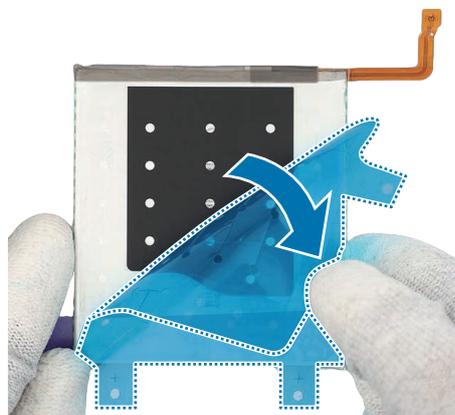
1 Using the tweezers and your fingers, remove the remaining adhesive tapes on the metal frame.

- !** Make sure to remove any residual tapes attached to the metal frame before reassembling the new battery.
- Be careful not to damage the device and near components.



2 Using the tweezers or your fingers, carefully remove the release film from the new battery.

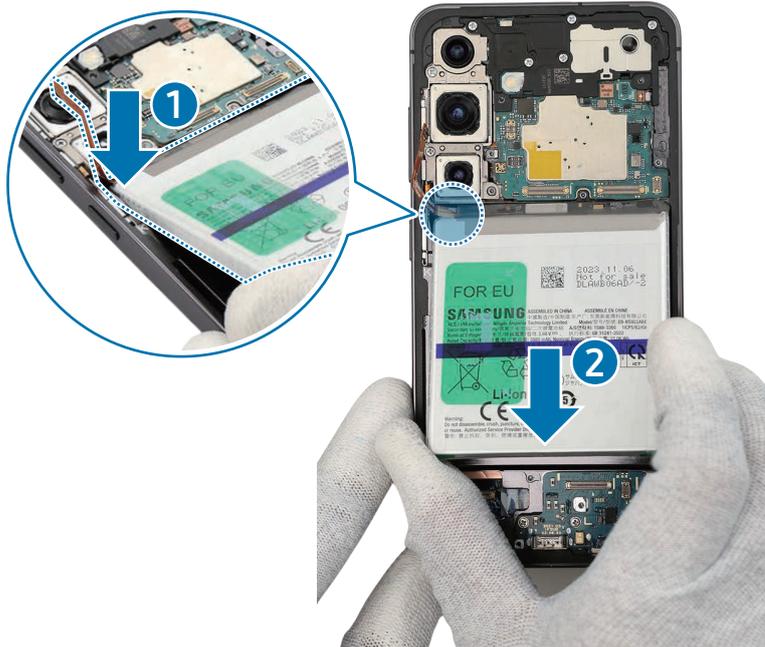
! Be careful not to damage the battery.



3 With the battery connector on the left, carefully place the battery based on the upper left side of the battery. Assemble the battery to the exact position of the metal frame using your fingers.

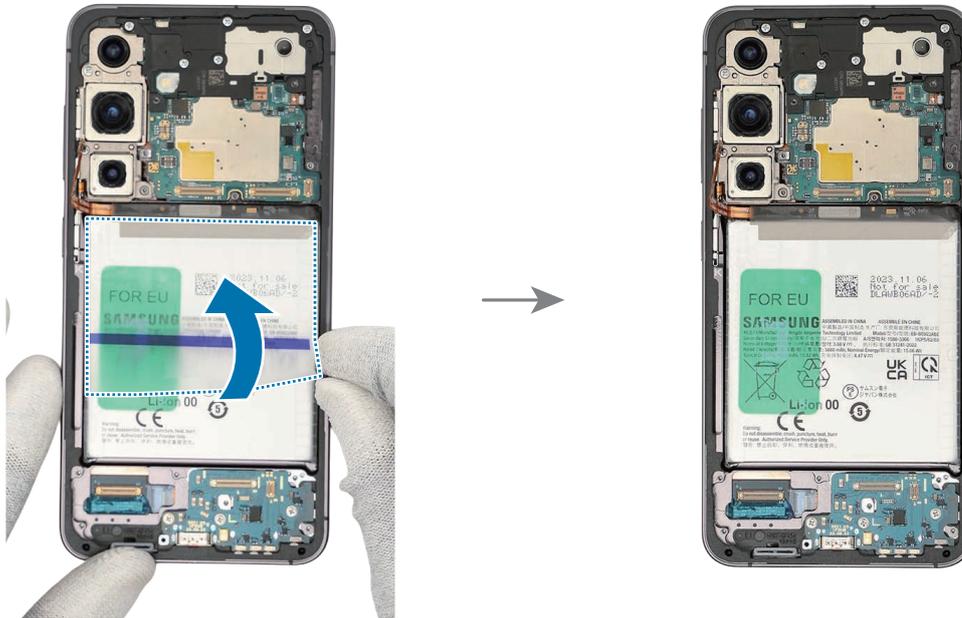
 Be careful not to damage the battery.

-  • 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.



4 Using the tweezers or your fingers, carefully remove the release film from the installed battery.

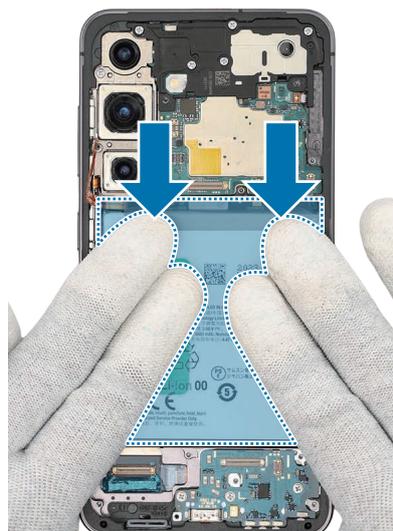
 Be careful not to damage the battery.



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

 Be careful not to damage the battery.

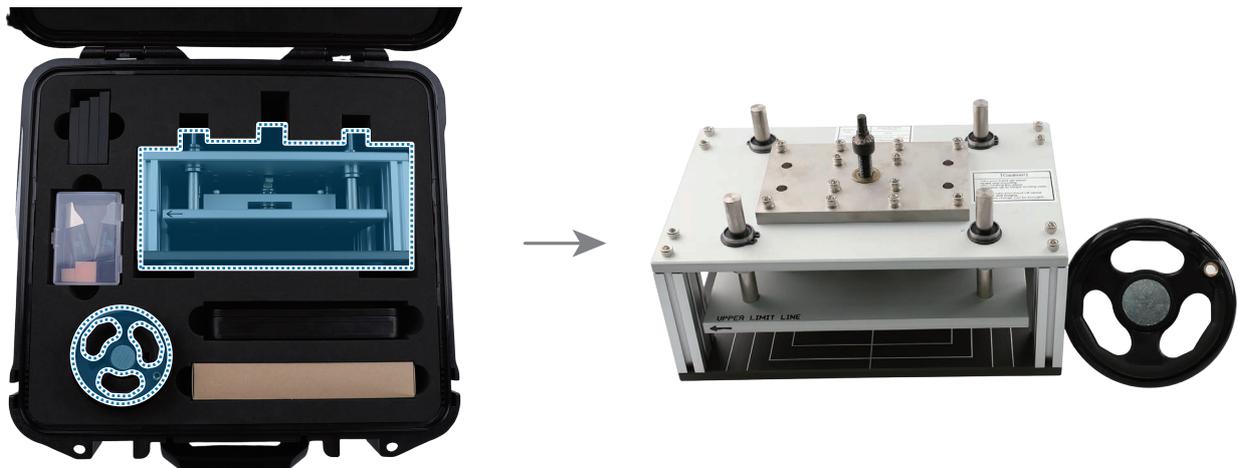
 The FPCB cables and connectors have to be positioned outside so as not to interfere when assembling the battery.



6 Now you can press the fully assembled battery using the press fixture. Remove the press fixture body and its handle from the rental tool kit packaging.

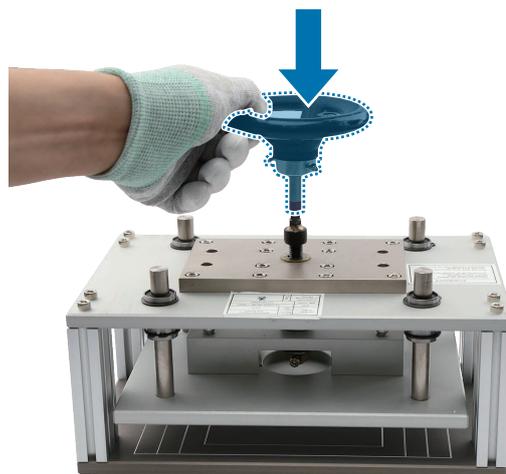
 Keep your hands out of the press fixture to avoid mechanical pinching and injury.

-  • This tool 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 may vary depending on the country and is currently available only in limited countries.
- A rented tool kit packaging may have different packaging than shown.

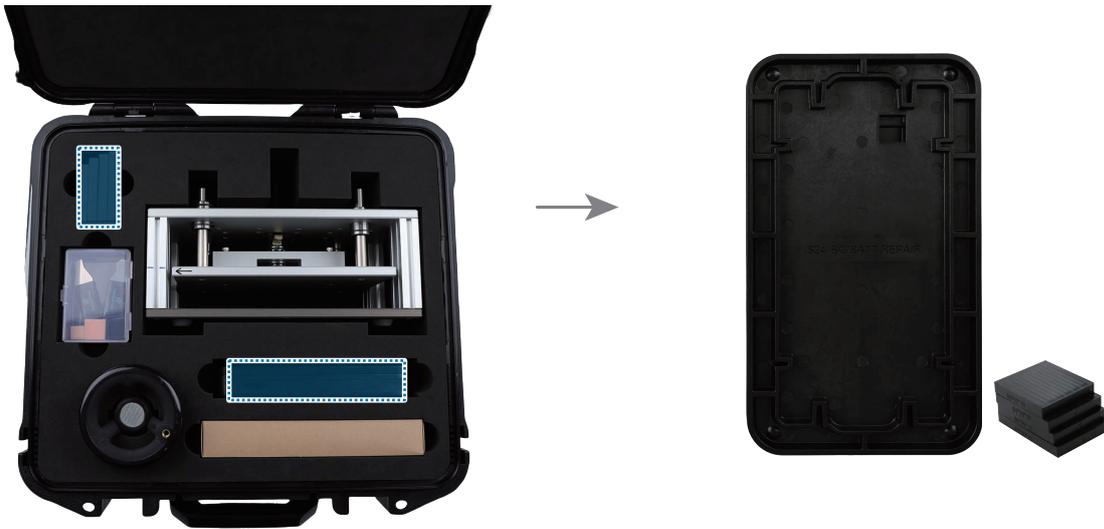


7 Carefully position the torque limit handle horizontally at the top of the press fixture.

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

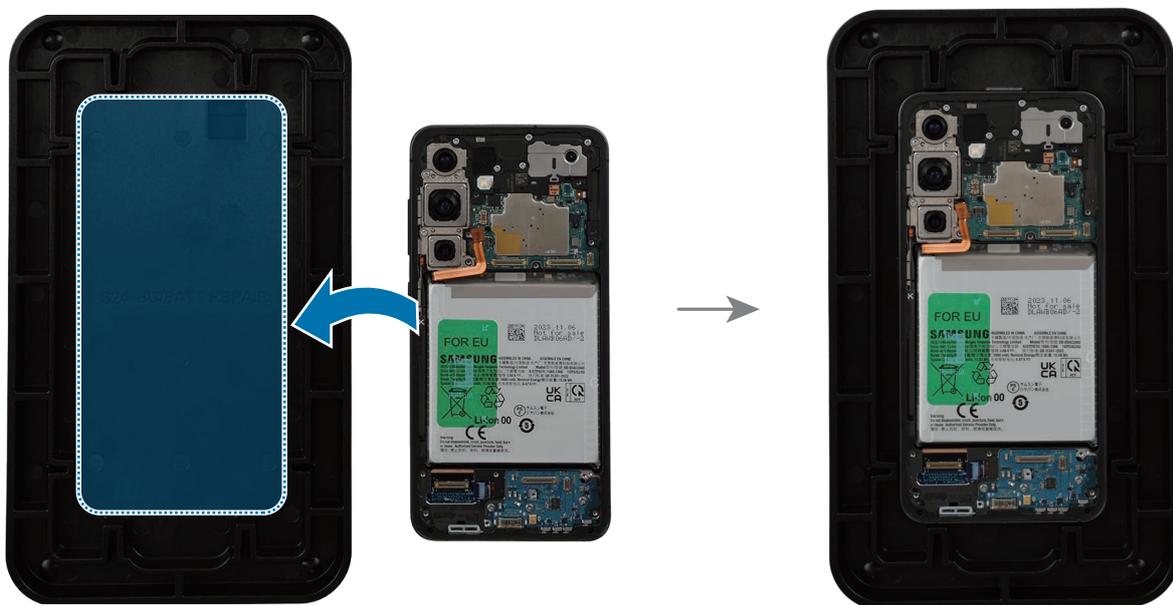


- 8 Remove the bottom press tray and the battery rubber pads (4 ea) from the rental tool kit packaging.



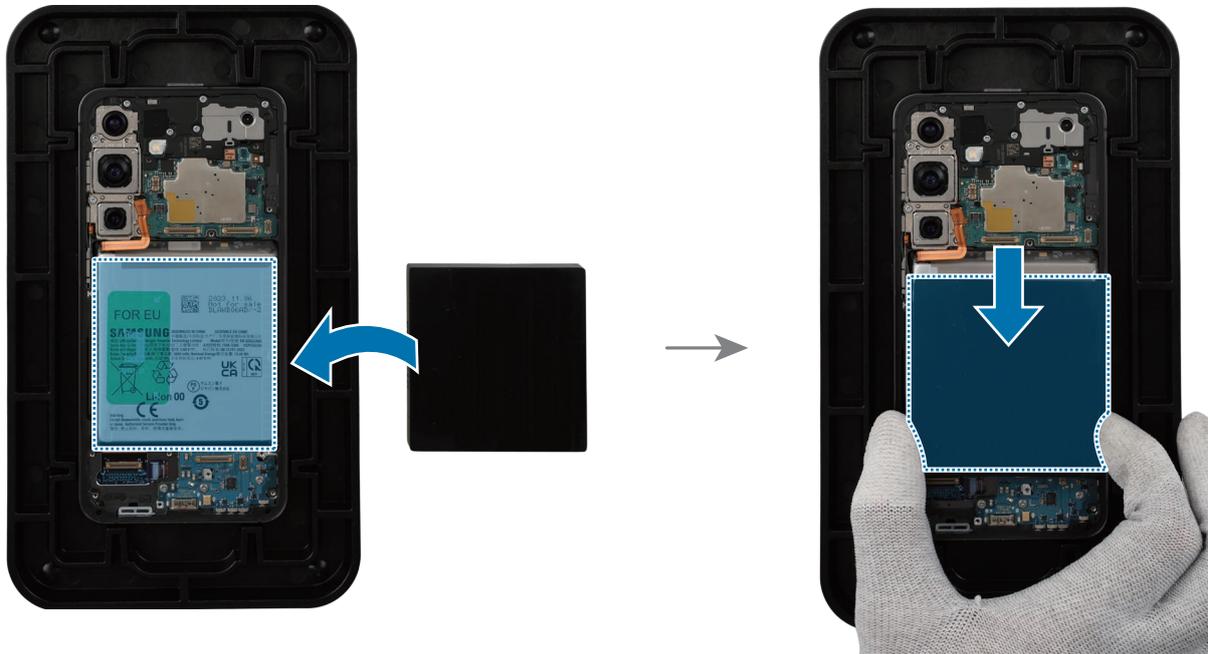
- 9 Leave the bottom press tray so that the side for the battery is visible. Then, place the device into the tray facing down.

-  • You can choose the one side of the bottom press tray depending on the back cover, screen, or battery.
- The bottom press tray may vary depending on the device.



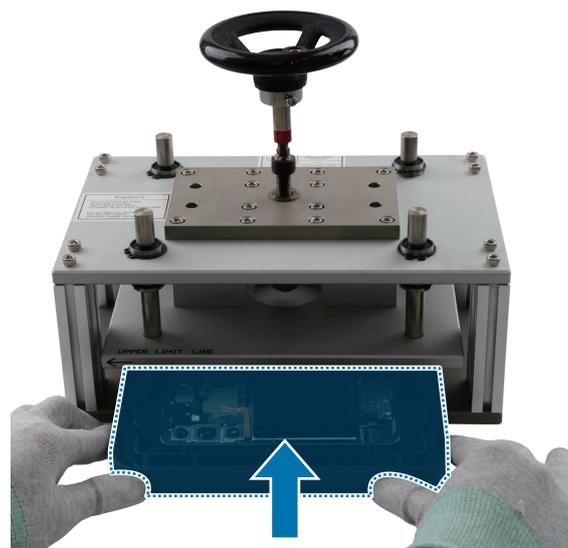
10 Choose a battery-sized pad from the provided battery rubber pads and place it carefully on the battery.

⚠ Be careful not to cover the battery rubber pad beyond the battery size.



11 Position the entire bottom press tray with the device horizontally in the centre of the press fixture.

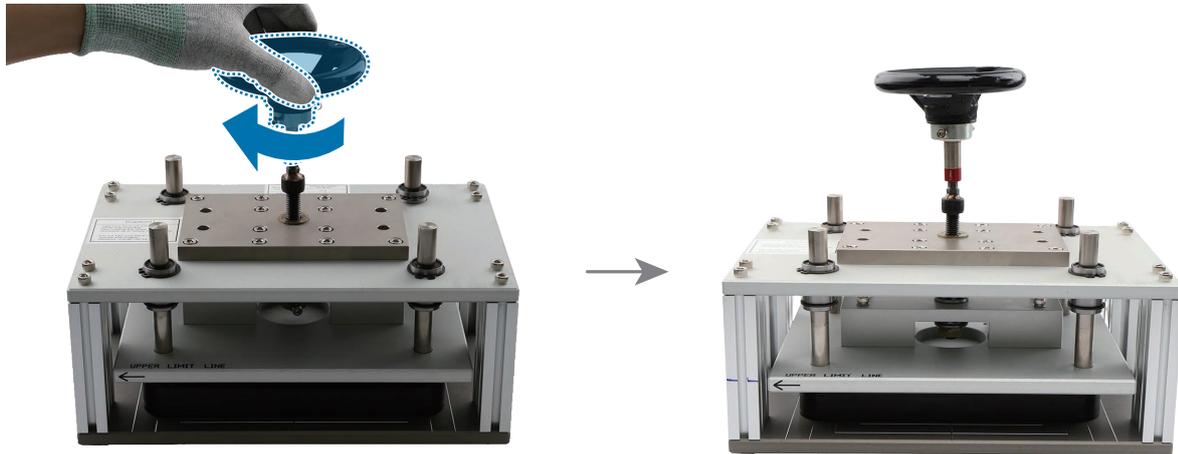
⚠ Be careful not to move the battery pad out of its position.



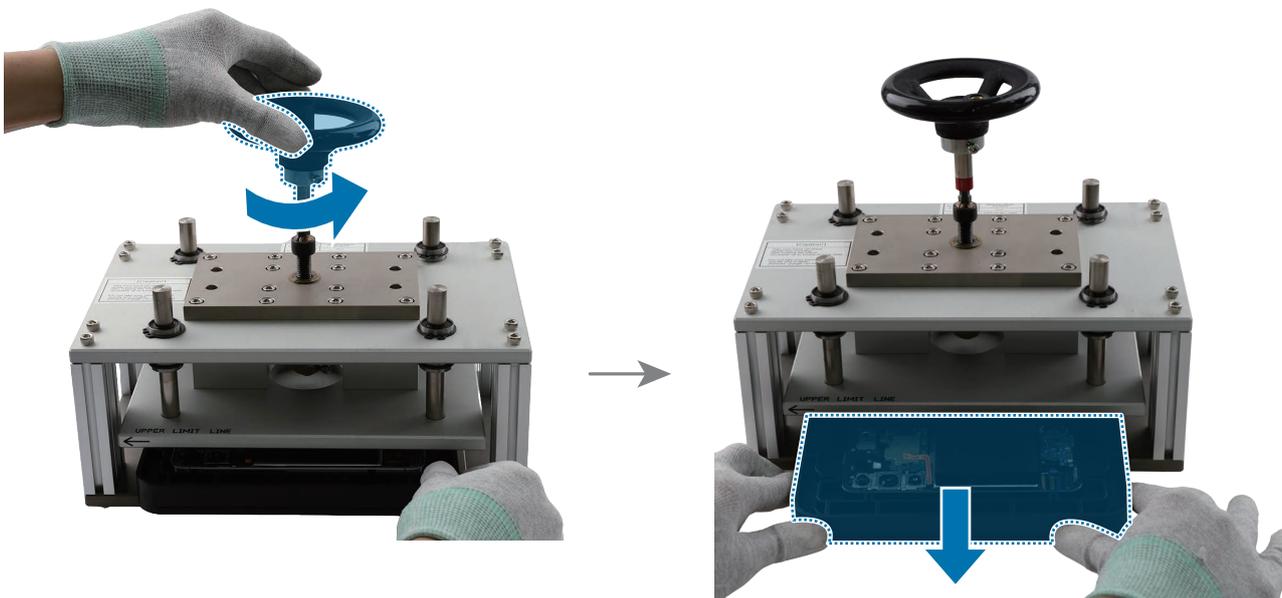
12 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 5 seconds.

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

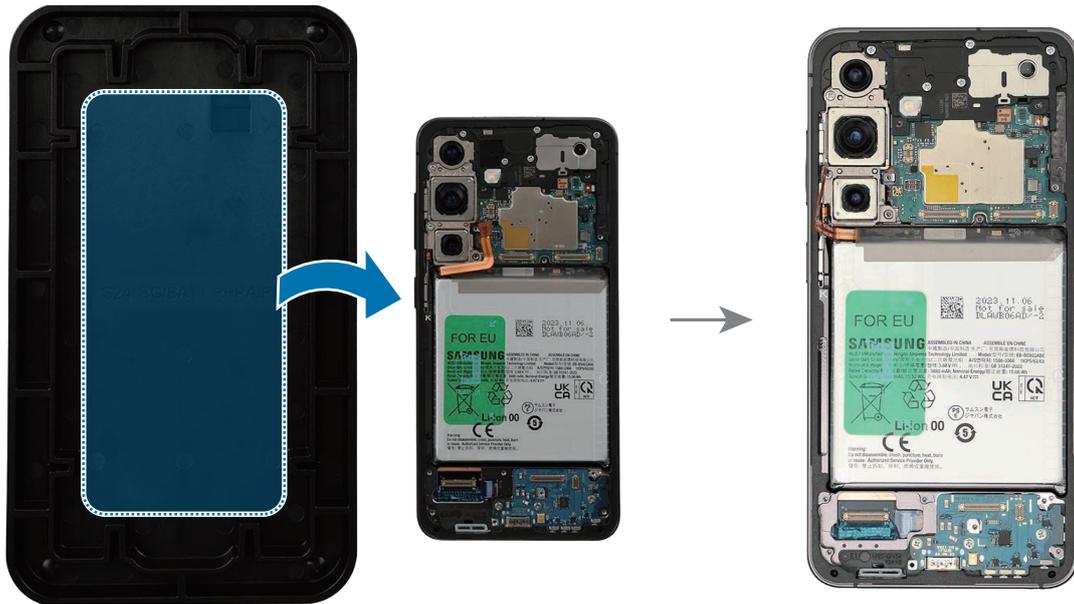
 When you reach the required maximum force (1 N), a sound is made from the handle if you turn the handle.



13 When the press is completed after 5 seconds, rotate the torque limit handle to the anticlockwise and remove the tray from the press fixture.

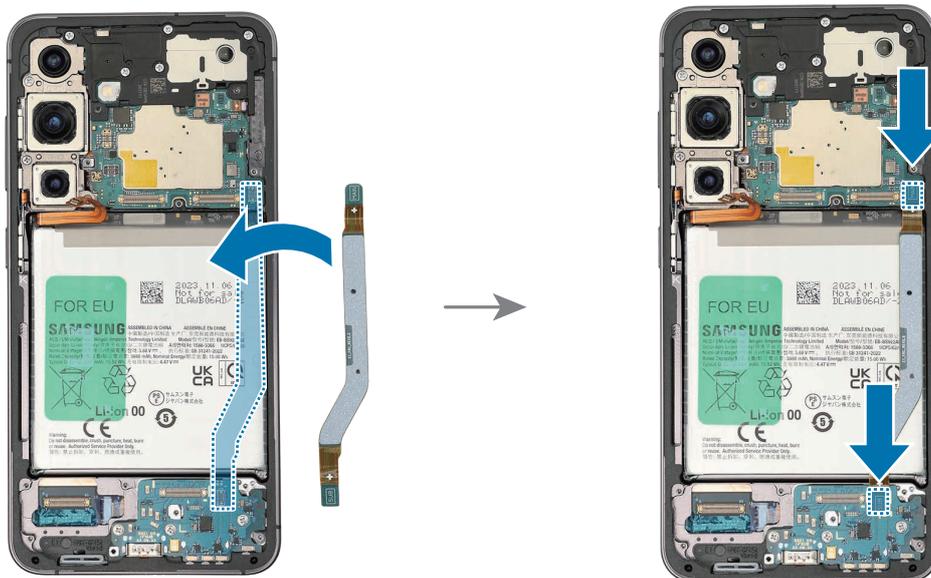


14 Remove the device and the rubber pad carefully from the tray.

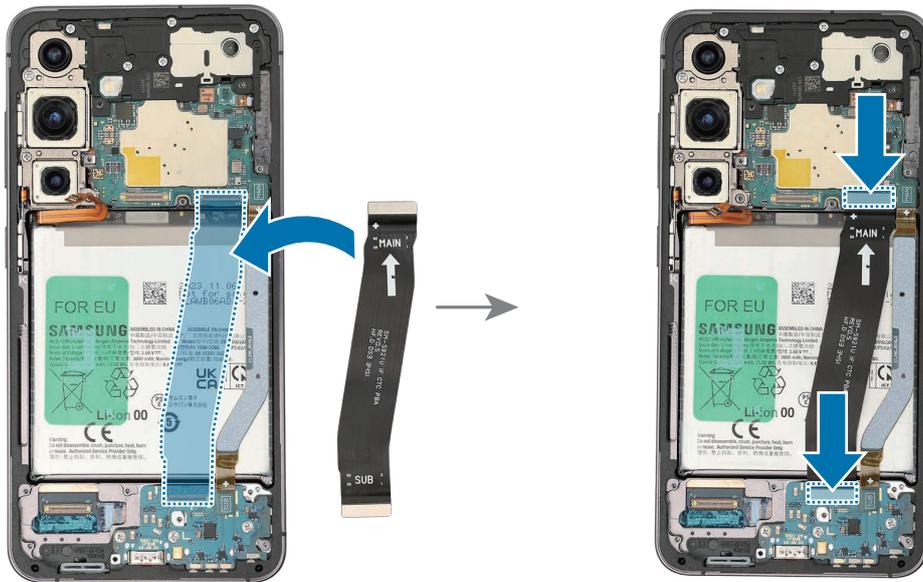


15 Place the flex cable to the device frame and connect the 2 connectors carefully.

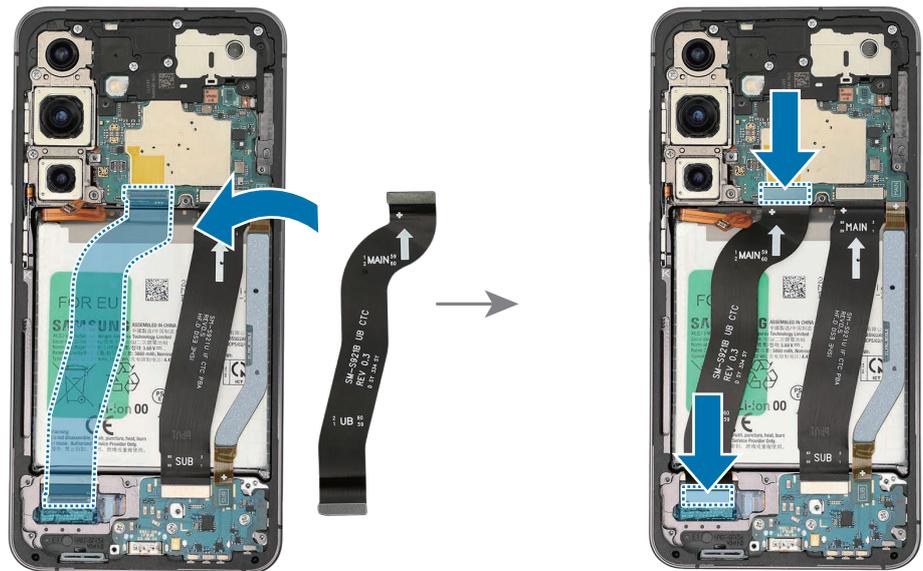
⚠ When connecting the connectors, be careful not to damage the cable.



16 Place the flex cable to the device frame and connect the 2 connectors carefully.



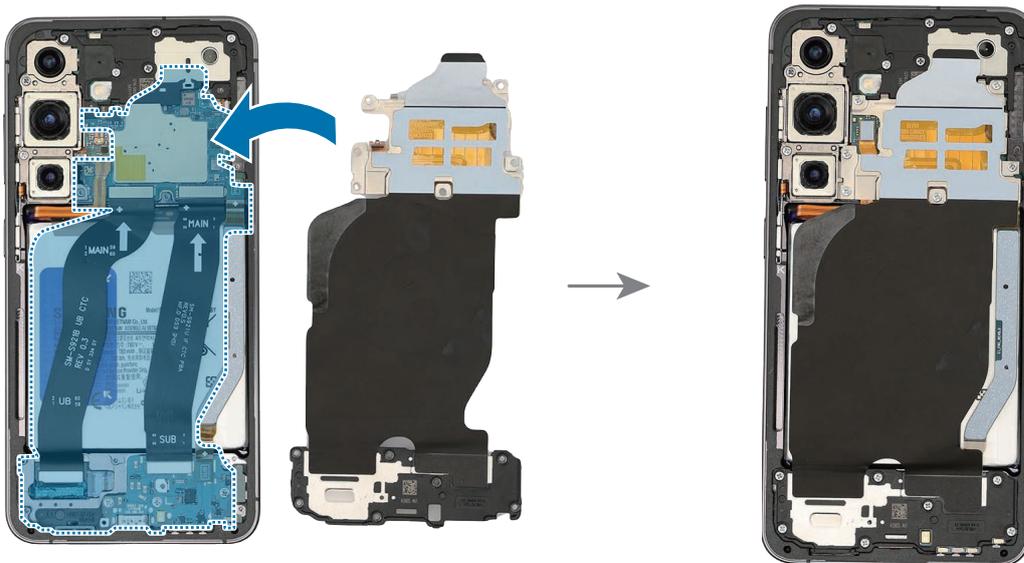
17 Place the flex cable to the device frame and connect the 2 connectors carefully.



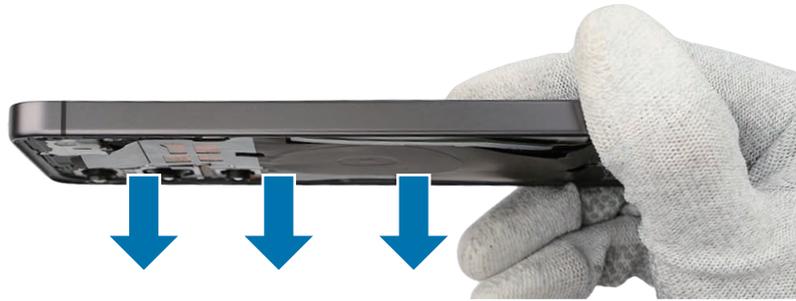
18 Connect the battery connector to the main board.



19 Check for the reassembly steps of the [Bottom Speaker](#) and completely reassemble the wireless charging module and speaker module.



- 20 Check carefully with your fingers to see if there are any screws or other foreign substances inside the device (battery, PBA, cable, etc.). Shake the device lightly with the back of the device facing down to remove any remaining screws.



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

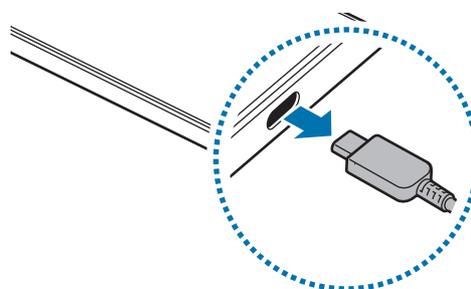
After reassembling

- 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.

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	Screen	Check for the disassembly steps of the 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.



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