SAMSUNG

REPAIR GUIDE

SM-S942B
SM-S942B/DS
SM-S942U
SM-S942U1

English. 03/2026. Rev.1.0

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

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

- Use only demagnetised tools that are specifically designed for small electronic repairs, as most electronic parts are sensitive to electromagnetic forces.
- Use only high quality screwdrivers when servicing devices. Low quality screwdrivers can easily damage the heads of screws.
- Always use genuine replacement parts. Third-party replacement parts may not function properly and could cause a fire or injury.
- Some parts, such as sensors (laser AF/proximity/fingerprint), the rear camera, the TSP (touch panel), speakers, and other components, may need calibration to guarantee their performance after repair.
- The performance of the device's water and dust resistance cannot be guaranteed when it is repaired by the user or another unskilled worker.
- If you need to access the failure data of your device or need to get a more detailed diagnosis, visit a Samsung Service Centre.
- If you need to replace unsold parts, visit a Samsung Service Centre and receive further instruction.
- Before conducting repairs, remember to make backup copies of all important data stored in the device.

- Make sure to wear the appropriate safety equipment before carrying out repairs. Samsung is not responsible for injuries that may occur because of not wearing the proper safety equipment. Refer to Tools for Disassembly and Assembly for a list of tools that you will need for assembling and disassembling the device.
- Repair the device in a safe place.
- Before repairing the device, make sure the device is turned off. To turn off the device, press the Volume Down button and the Side button at the same time, or open the notification panel and tap the Power icon.
- If the device is damaged, emits smoke, or if you smell something burning, stop using the device immediately and contact Samsung.
- It is recommended to use safety equipment such as glasses, gloves, and a mask when repairing the device.
- Be careful not to damage the device when removing the back cover.
- Before assembly, ensure that there are no screws or foreign objects around the battery.
- During assembly, check if there are any abnormalities before reattaching the back cover, and be careful not to damage the battery by hitting or denting it. If the battery is damaged, visit a Samsung Service Centre.
- Do not place the device directly into a microwave and heat it.
- Before repairing your device, make sure its battery is fully discharged.
- Visit www.samsung.com to view the device information, related material, and safety information.

ESD (Electrostatic Discharge) Precautions

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

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

Instructional Icons

Warning: situations that could cause injury to yourself or others

Caution: situations that could cause damage to your device or other equipment

Notice: notes, usage tips, or additional information

Software Update

Updating Software through FOTA

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

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

- **Install now**: Install updates.
- **Schedule install**: Set the time to install updates automatically.

- You may incur additional charges when updating the software through a mobile network.
- If the latest software has been downloaded to the device, these options will not appear.

Software Update Failure

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

Updating Software through Smart Switch

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

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

1 On the computer, visit www.samsung.com/smartswitch to download Smart Switch.

2 On the computer, launch **Smart Switch**.

3 Connect your device to the computer using the device's USB cable.

4 Click **Update**.

5 Read the on-screen instructions and click **Continue**.

6 Read the precautions about the update and click **OK**.

7 Read and agree to the terms and conditions.
The update will start.

Recovering from a Software Update Failure

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

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

1 Disconnect your device from the computer and launch **Smart Switch** again on the computer.

2 Click ⋮ → **Emergency Software Recovery and Reset**.
The device list will appear.

3 Click the device that experienced a software update error and click **Device reset** → **OK**.
The device will perform a factory data reset.

Recovering on Another Computer

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

- Before performing the factory data reset, remember to make backup copies of all important data stored in the device. Samsung is not responsible for the loss of data stored in the device.
- The recovery code can be found only on the computer where the software update has failed.

1 On the computer where the software update has failed, launch **Smart Switch**.

2 Click ⋮ → **Emergency Software Recovery and Reset**.

3 On the devices list, click the device that failed to update the software and check the recovery code.

4 On another computer, launch **Smart Switch**.

5 Click ⋮ → **Emergency Software Recovery and Reset** → **Emergency code recovery**.

6 Enter the recovery code and click **OK**.

7 Follow the on-screen instructions to put your device into recovery mode and complete the emergency recovery.

Performing a Factory Data Reset

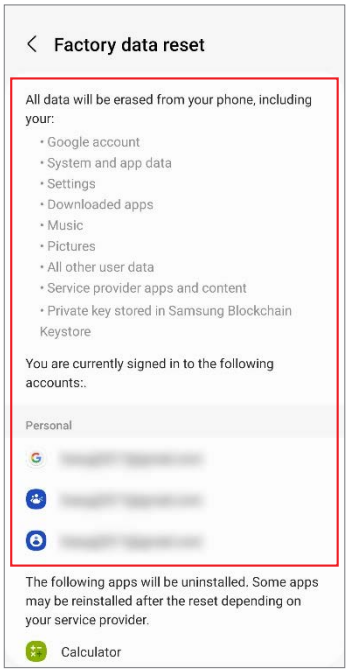
The factory data reset restores the device's default settings. This erases all data, including files and downloaded apps, from the device.

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

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

1 Launch the **Settings** app and tap **General management** → **Reset** → **Factory data reset**.

2 Read the on-screen instructions and check which account you are signed in with.
If your device is signed in to your Google account, log out of your Google account. If you do not log out of your Google account, logging in to another account after the factory data reset will not be possible, because your device will be locked.



3 Tap **Reset** → **Delete all**.
All data will be deleted when rebooting.

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

Quality Test

Quality Test Using the Samsung Members App

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

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

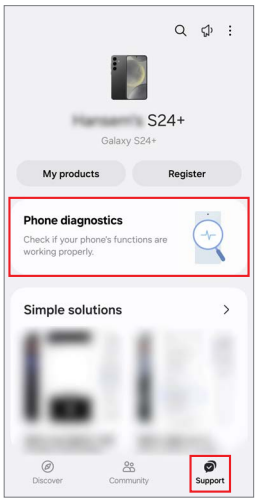
Device Diagnostics

1 Launch the **Samsung Members** app.

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

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

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

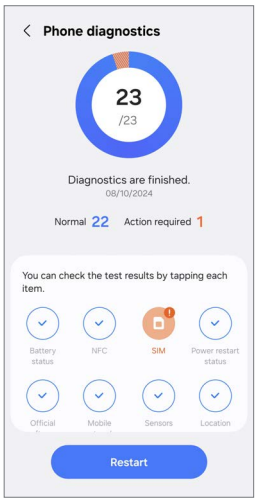


3 Tap **Test all**.

The device performs a test on all items.

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

- Tick mark: Working normally
- Exclamation mark: Needs further inspection

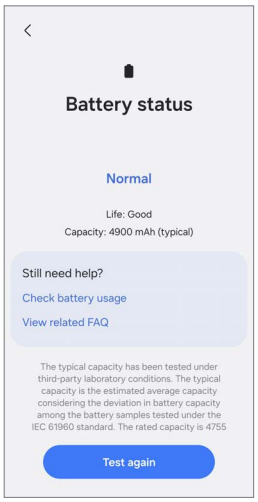


- The test proceeds automatically, but you may need to follow the on-screen instructions depending on the test item. Keep an eye on the screen during testing to ensure smooth progress.
- If the exclamation mark appears on any test items after finishing the test, tap them to find the solutions. If the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

Test Items

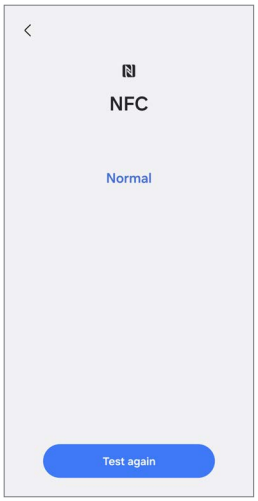
Battery status

Check the battery life and capacity.



NFC

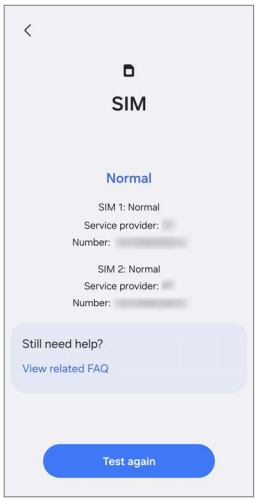
Check whether the near field communication (NFC) feature is working normally.



SIM

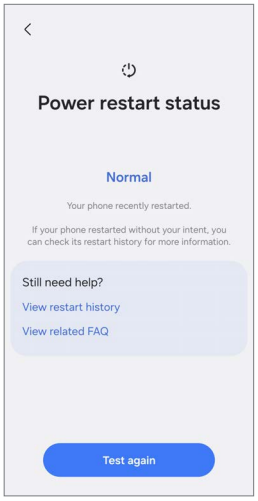
Check whether the SIM is working normally.

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



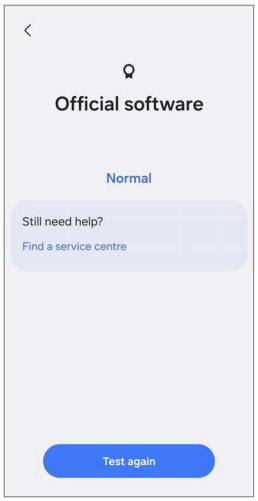
Power restart status

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



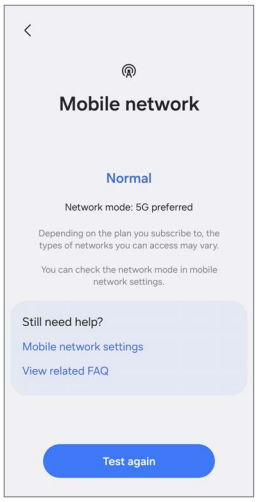
Official software

Check whether the official software is being used.



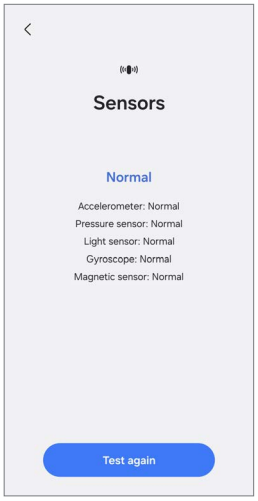
Mobile network

Check whether your mobile network is working normally.



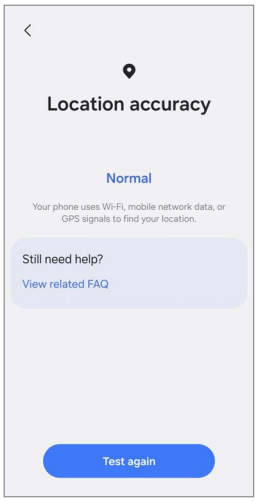
Sensors

Check whether the sensors are working normally.



Location accuracy

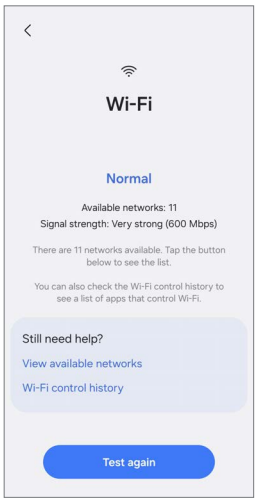
Check whether the location feature is working normally.



The results might be more accurate when you test outside.

Wi-Fi

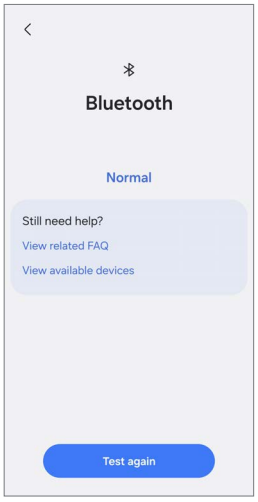
Check whether the Wi-Fi feature is working normally.



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

Bluetooth

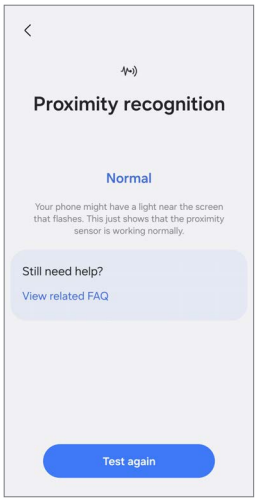
Check whether Bluetooth can search for other Bluetooth devices.



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

Proximity recognition

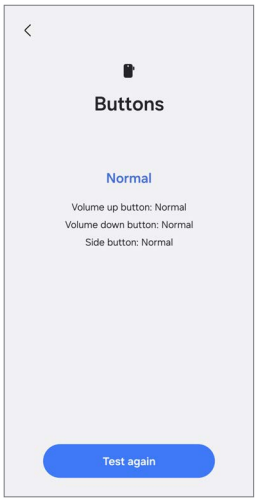
Check whether the proximity recognition feature is working normally.



Buttons

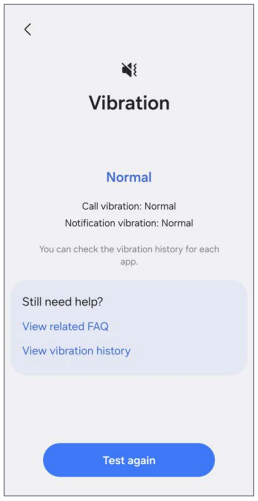
Check whether the buttons are working normally.

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



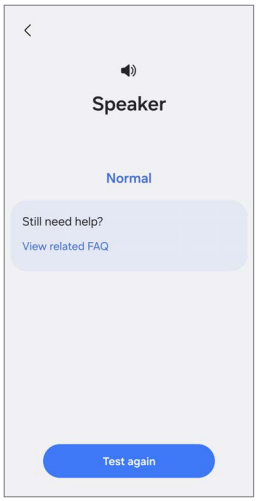
Vibration

Check whether the vibration feature is working normally.



Speaker

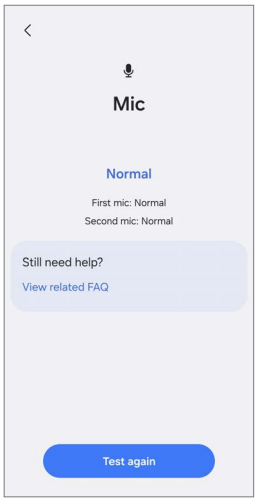
Check whether the speakers are working normally.



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

Mic

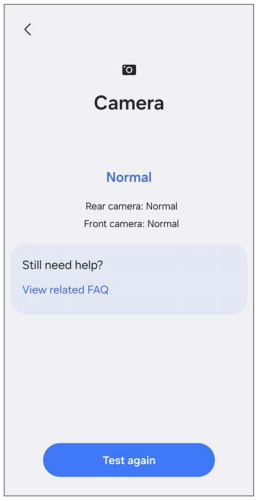
Check whether the microphones are working normally.



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

Camera

Check whether the cameras are working normally.

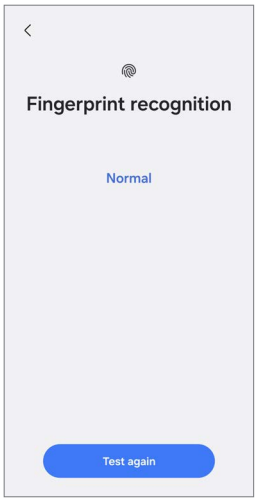


To test this more accurately, check if the camera is obstructed by foreign objects, the case, or the protective film.

Fingerprint recognition

Check whether the fingerprint recognition sensor is working normally.

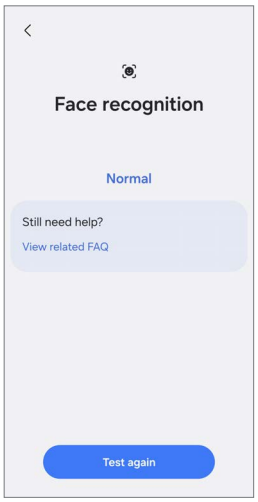
To test this feature, your fingerprint must be registered.



Face recognition

Check whether the face recognition sensor is working normally.

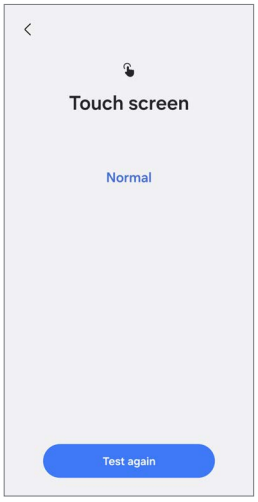
To test this feature, your face must be registered.



Touch screen

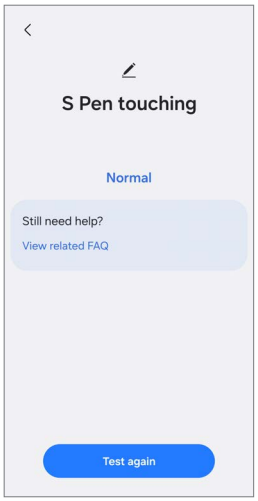
Check whether touch inputs are recognised normally in all areas of the screen.

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



S Pen touching

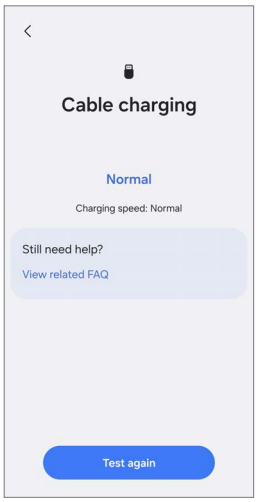
Check whether the S Pen is recognised in all areas of the touch screen.



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

Cable charging

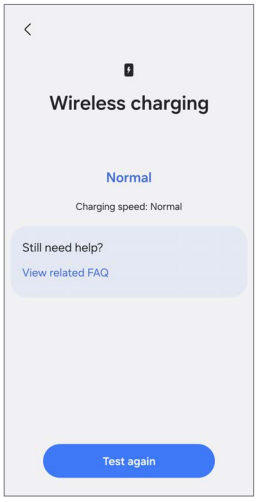
Check whether the cable charging feature is working normally.



Use only Samsung-approved chargers.

Wireless charging

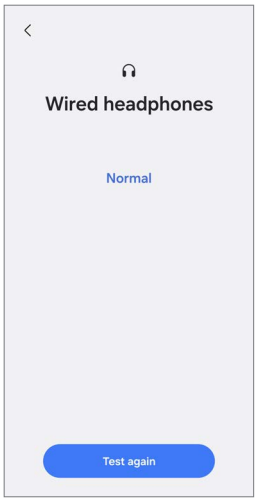
Check whether the wireless charging feature is working normally.



Use only Samsung-approved wireless chargers.

Wired headphones

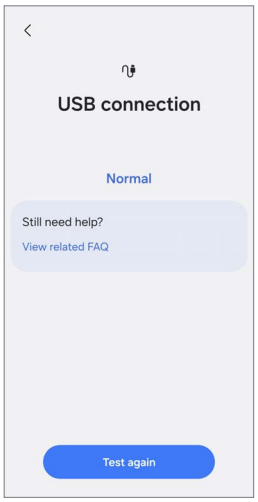
Check whether the headphone jack recognises the headphones normally.



To test this feature, you must connect headphones.

USB connection

Check whether the multipurpose jack recognises the USB cable normally.



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

Calibrations

Calibrations

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

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

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

Used Parts and Calibration Functions in Supported Models

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

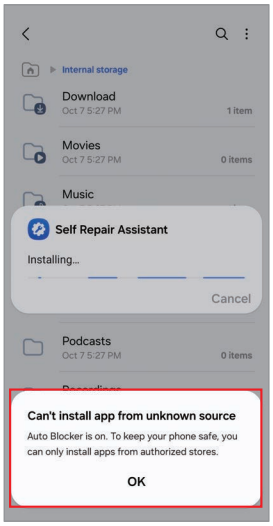
	Screen	Battery	Back Glass	Charging Port	Speaker
Optical Fingerprint Cal.	Yes	No	No	No	No
Range Sensor Cal.	Yes	Yes	Yes	Yes	Yes
Battery Cycle Resets.	No	Yes	No	No	No
Touch Screen Panel Cal.	Yes	No	No	No	No
Speaker Cal.	No	No	No	No	Yes
Under-display Camera Cal.	Yes	No	No	No	No
Digital Hall Sensor Cal.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

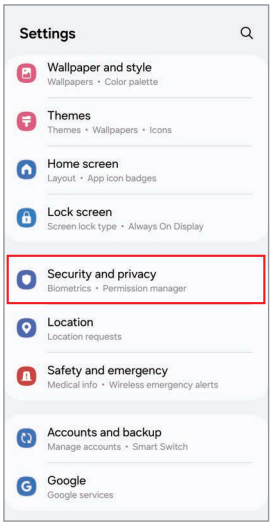
- Depending on the model, the screen module may include batteries. So when the screen module is replaced, the battery also has to be selected and a battery cycle reset must be performed.
- In the Fold models, touch screen panel calibration is performed for both the main and cover screens.
- Digital hall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

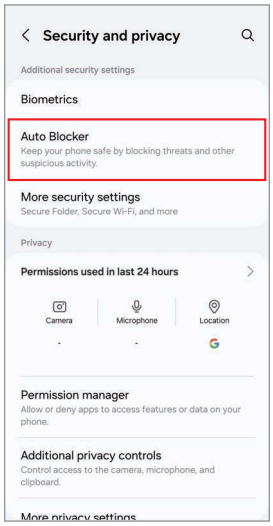
Using the Self Repair Assistant App

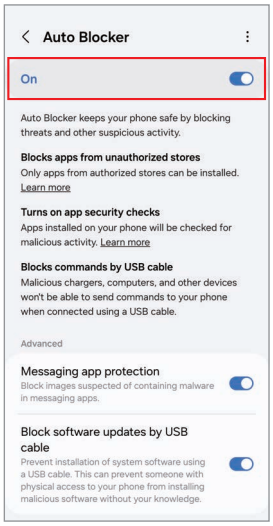
1 Download the **Self Repair Assistant** app from **Galaxy Store**.

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

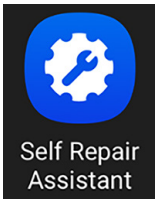




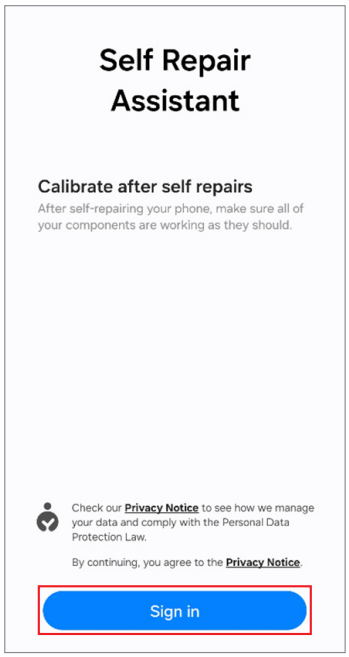


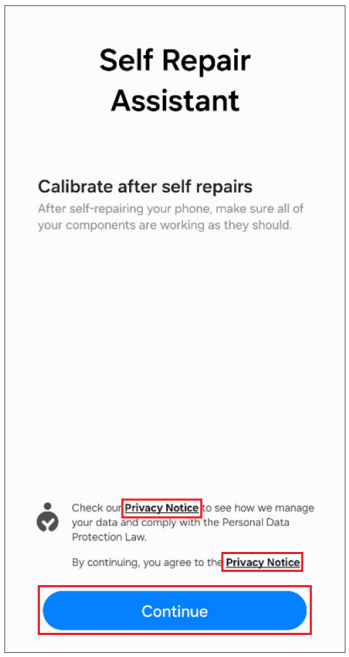


2 Launch the **Self Repair Assistant** app.



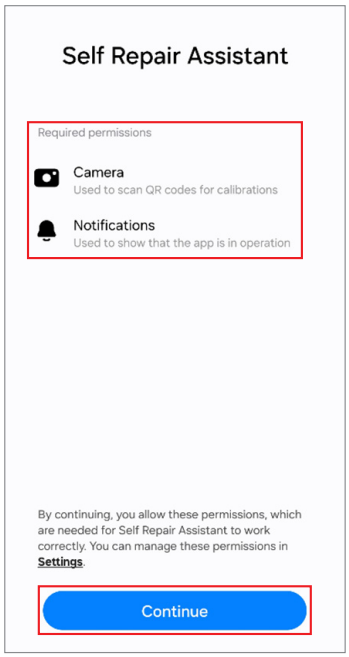
3 Read Privacy Notice and tap **Continue**.



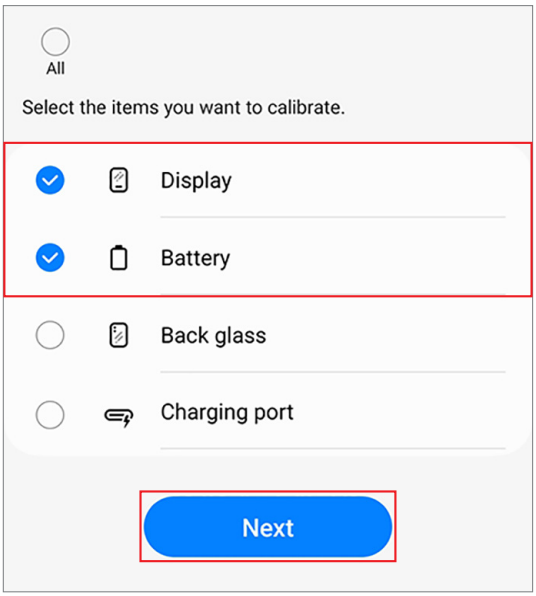


- If you are not signed in to your Samsung account, a button will appear to sign in.
- If you select the link to read the full Privacy Notice, you will be directed to our site.

4 Check permissions and tap **Continue**.



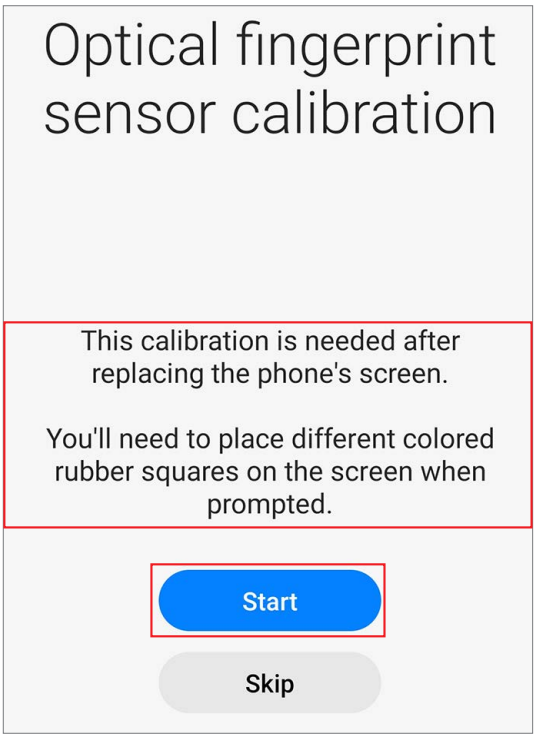
5 Select the part that you have replaced and tap **Next**.

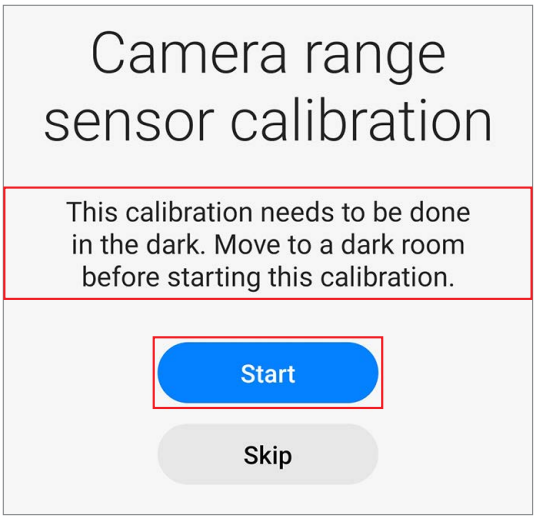


- The required calibrations will be conducted automatically.
- If the device does not have certain components or sensors associated with the part that has been replaced, relative calibration will be skipped automatically.

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

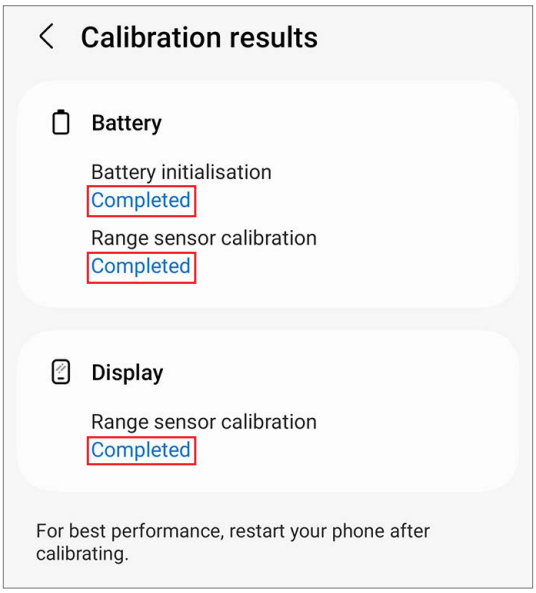
Refer to Optical Fingerprint Sensor Calibration, Resetting the Battery Cycle Count, Range Sensor Calibration, Touch Screen Panel Calibration, Speaker Calibration, Under-display Camera Calibration (Fold Models Only), and Digital Hall Sensor Calibration (Fold and Flip Models Only) for more information.



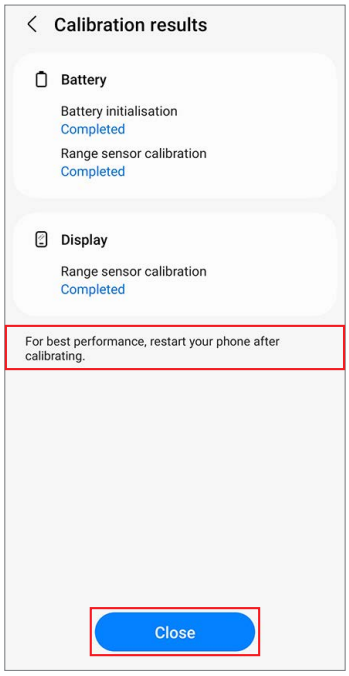


7 Check the results of each calibration item.

- **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.



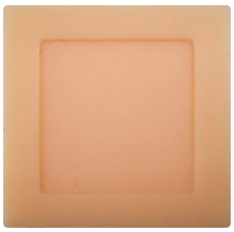
Optical Fingerprint Sensor Calibration

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

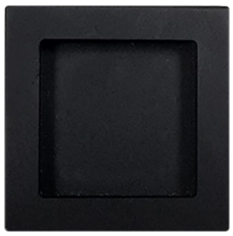
Optical fingerprint sensor calibration is available through the **Self Repair Assistant** app.

- 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

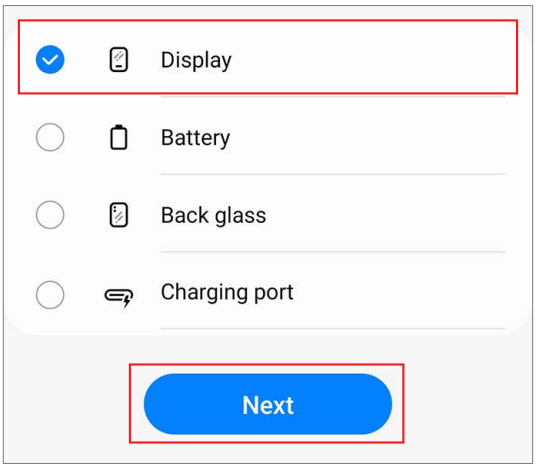


3D fingerprint dummy rubber

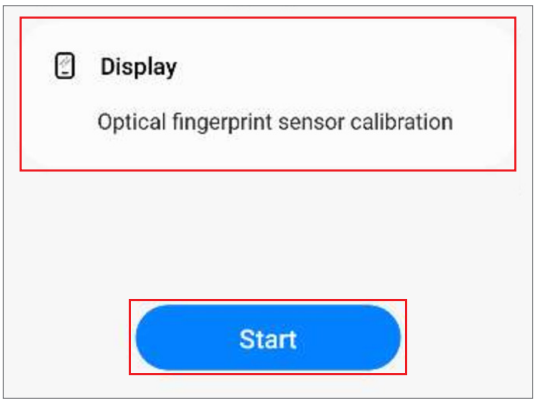
1 Launch the **Self Repair Assistant** app.

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.

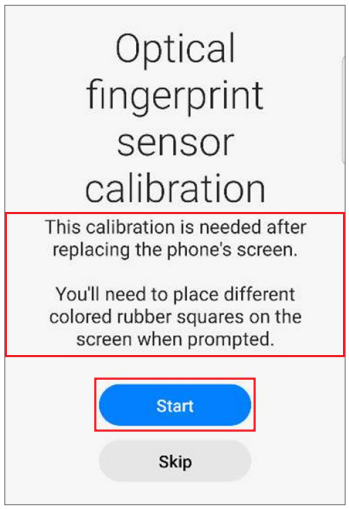


3 Check the part and calibration and then tap **Start**.



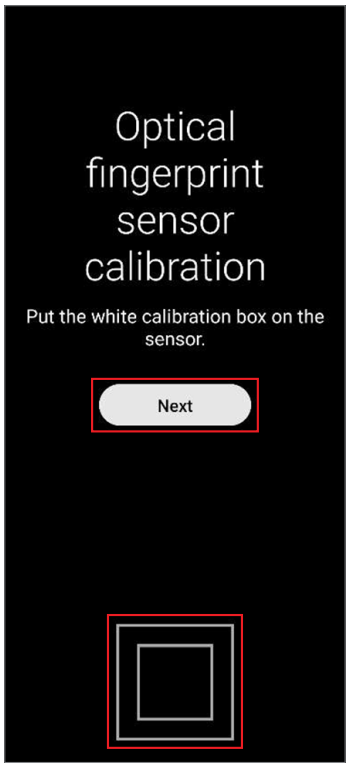
4 Read the on-screen instructions and tap **Start**.

The white calibration box must be prepared before you start.

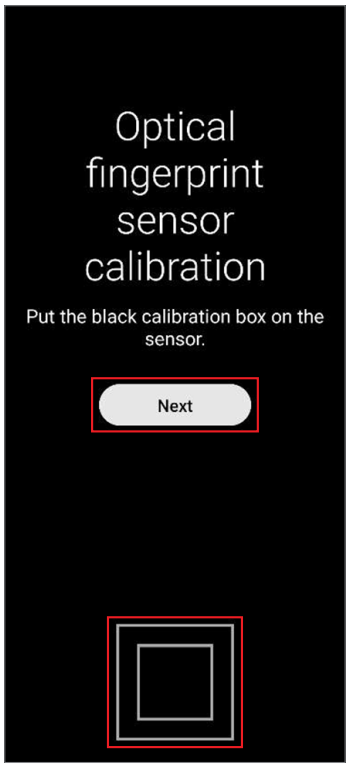


5 Put the white calibration box on the sensor area (below the square side) and push the rubber by applying force with your finger. Tap **Next** and keep pushing the rubber with your finger until you see the success message.

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

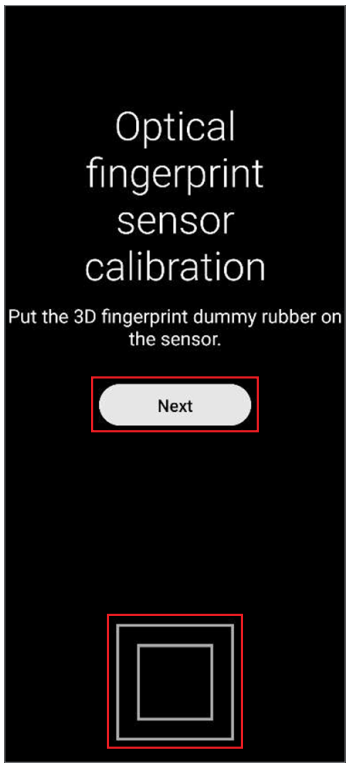


6 Put the black calibration box on the sensor area (below the square side) and push the rubber by applying force with your finger.
Tap **Next** and keep pushing the rubber with your finger until you see the success message.



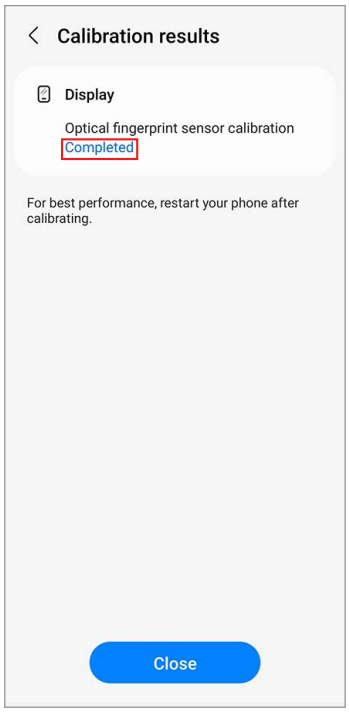
- The black calibration box must be prepared before you start.
- The bottom side of the rubber that is shaped like a square should be located on the square guide line.

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.



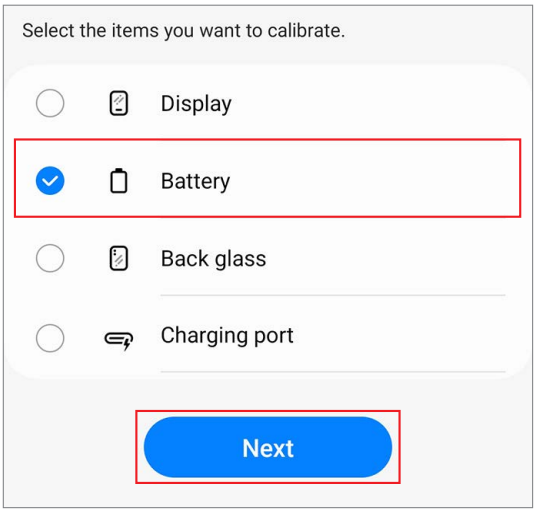
Completed appears only when the calibration is successfully completed. If **Completed** does not appear, try calibrating again.

Resetting the Battery Cycle Count

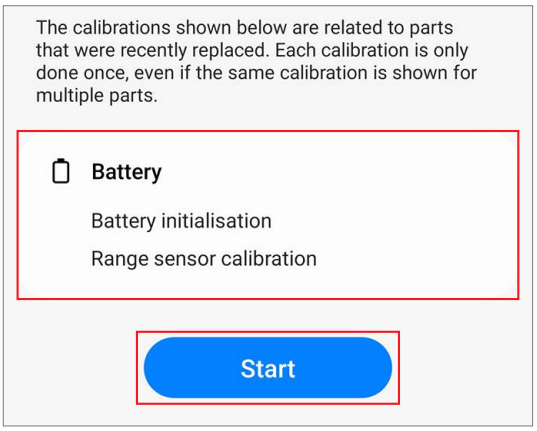
The battery cycle count should be reset whenever your device's battery is replaced.

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

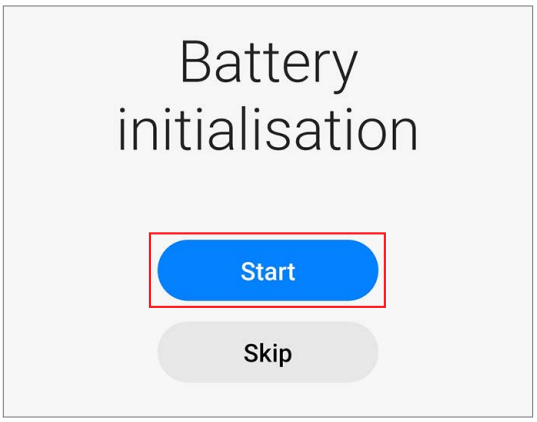
2 Select the part that you have replaced. Tap **Battery** → **Next**.



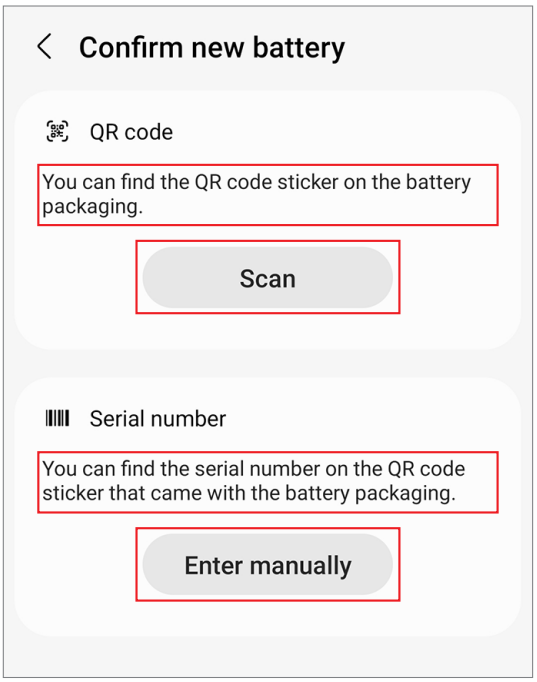
3 Check part and calibration and tap **Start**.



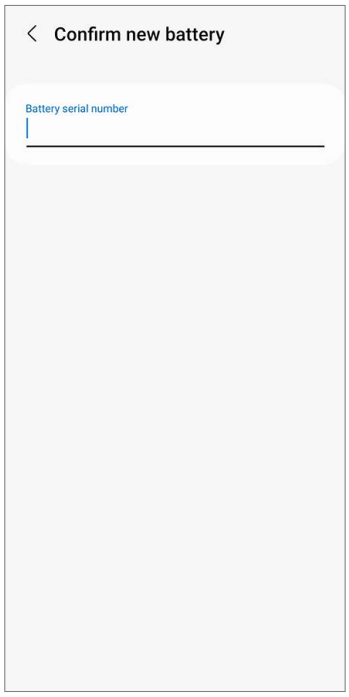
4 Tap **Start**.



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

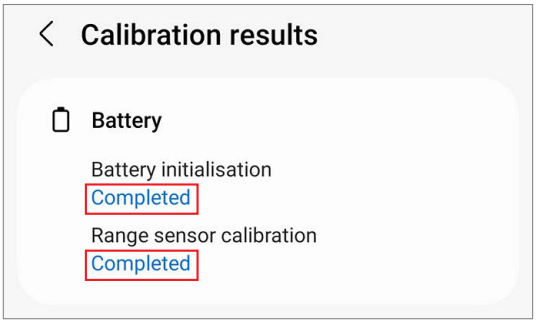


6 Scan the QR code or enter the serial number that appears on the battery package.
The reset will begin.



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

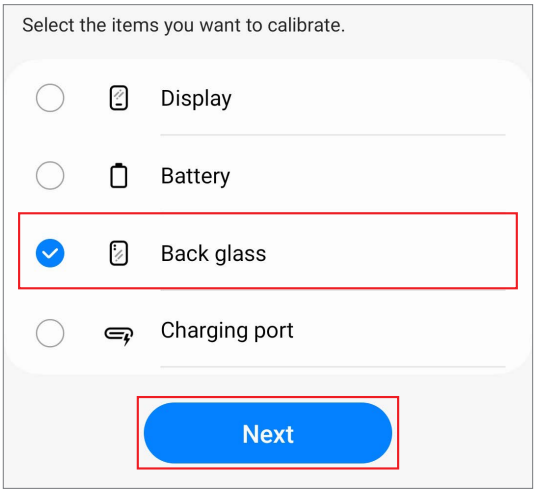
When replacing screens, batteries, back glasses, or charging ports, range sensor calibration is required to ensure the range sensors of devices equipped with them are optimised.

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

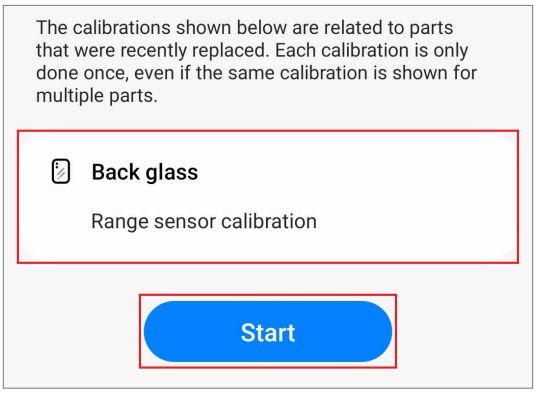
Some content may differ from your device depending on the region, service provider, model specifications, or device's software.

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

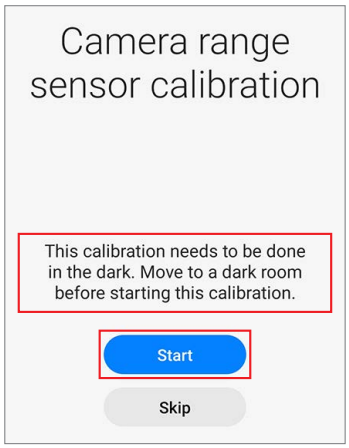
2 Select the part that you have replaced and tap **Next**.



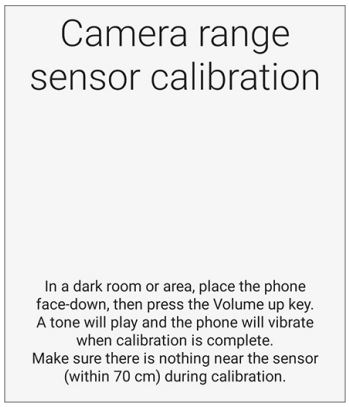
3 Check part and calibration and tap **Start**.



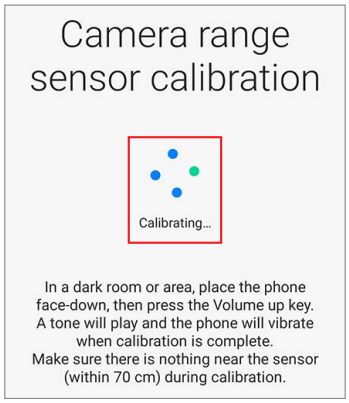
4 Read the on-screen instructions and tap **Start**.



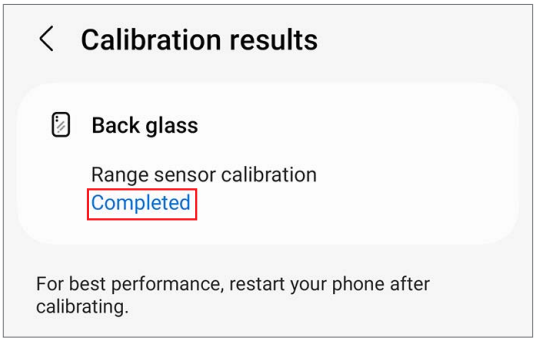
5 In a dark room or area, place the phone face-down, then press the Volume button.



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



7 Check the calibration result.



Touch Screen Panel Calibration

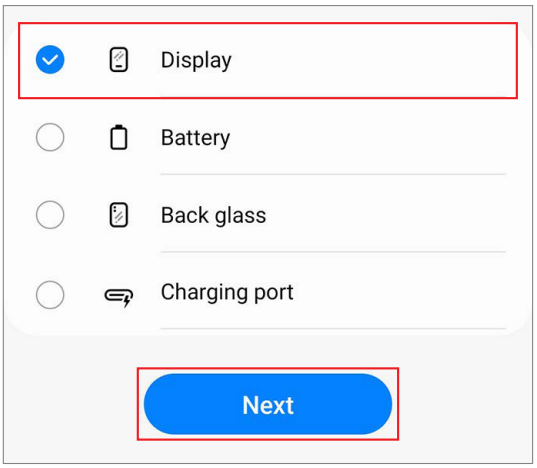
When replacing screens, touch screen panel calibration is required to ensure accurate touch input.

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

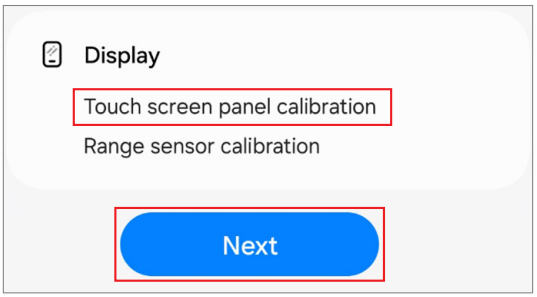
In the Fold models, touch screen panel calibration is performed for both the main and cover screens.

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

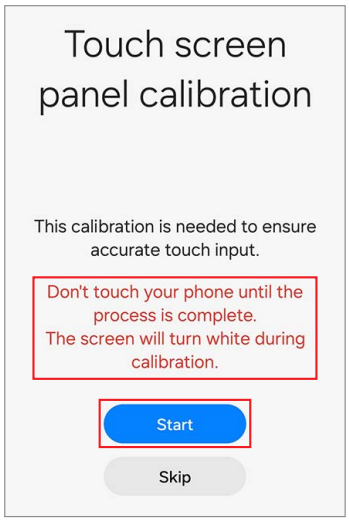
2 Select the part that you have replaced and tap **Next**.



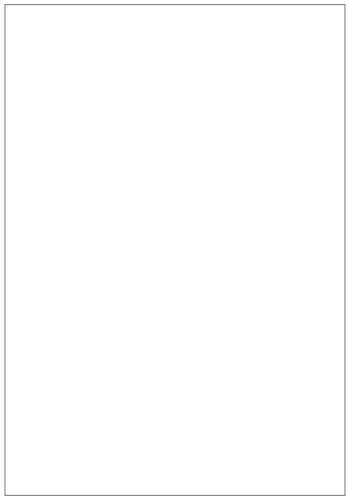
3 Check part and calibration and tap **Next**.



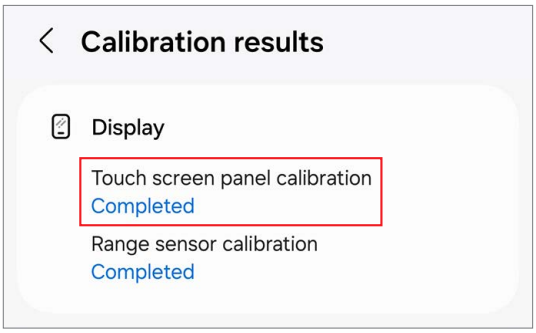
4 Read the on-screen instructions and tap **Start**.



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



6 Check the calibration result.



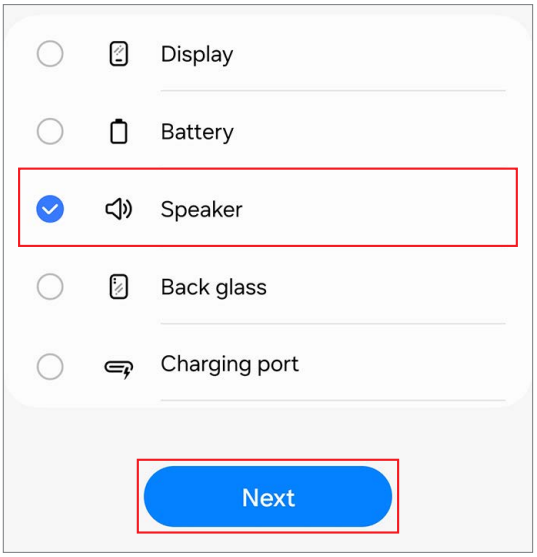
Speaker Calibration

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

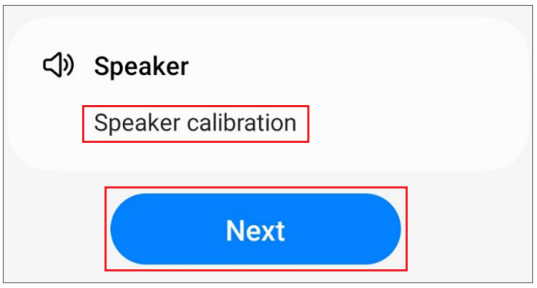
Speaker calibration is available through the **Self Repair Assistant** app.

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

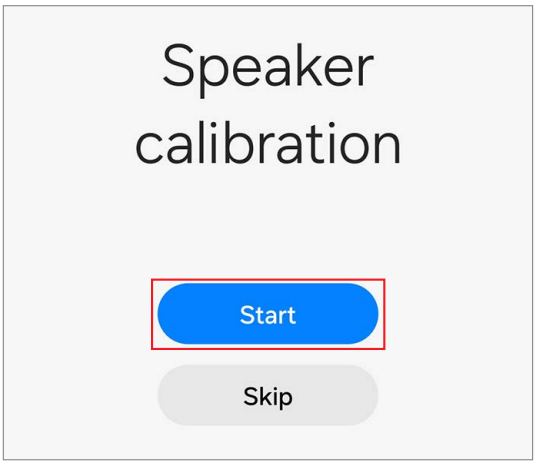
2 Select the part that you have replaced and tap **Next**.



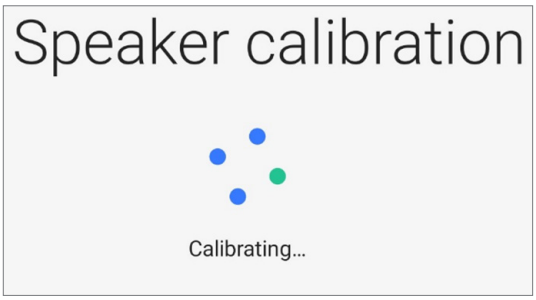
3 Check part and calibration and tap **Next**.



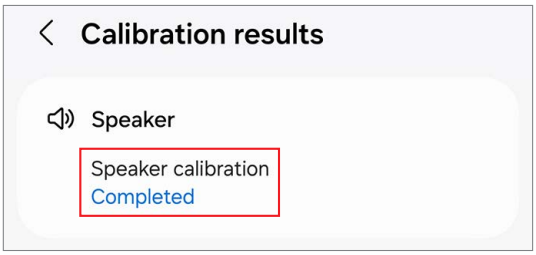
4 Tap **Start**.



5 The calibration will perform automatically.



6 Check the calibration result.



Under-display Camera Calibration (Fold Models Only)

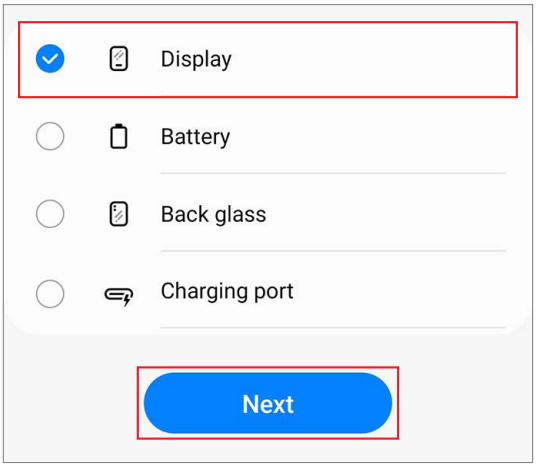
Whenever the screen is replaced, the under-display camera must be calibrated to guarantee optimised under-display camera performance for devices that have it.

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

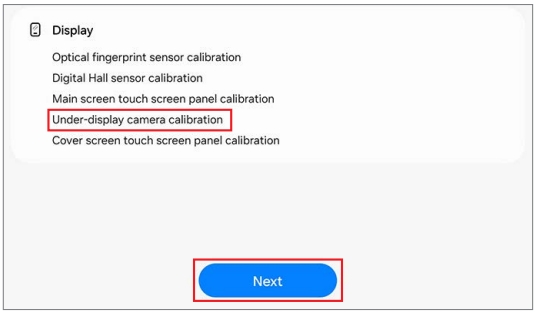
This feature may not be available depending on the model. The availability of this feature can be automatically checked in the Self Repair Assistant app, so please follow the guidance of the Self Repair Assistant app.

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

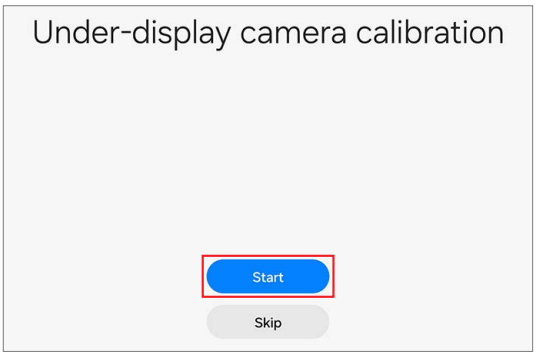
2 Select the part that you have replaced and tap **Next**.



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

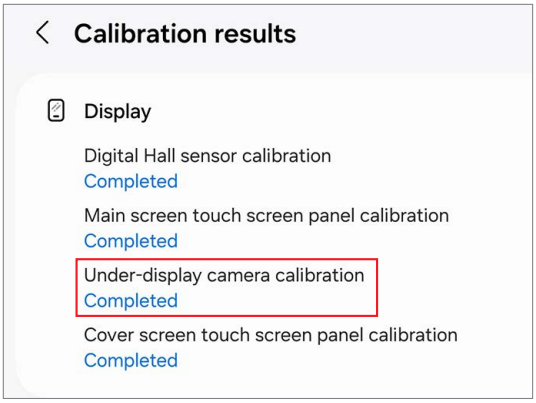


4 Tap **Start**.



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.

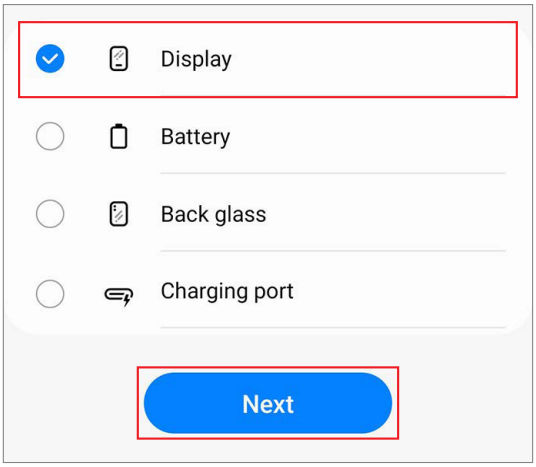
Digital hall sensor calibration is available through the **Self Repair Assistant** app.

- 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.

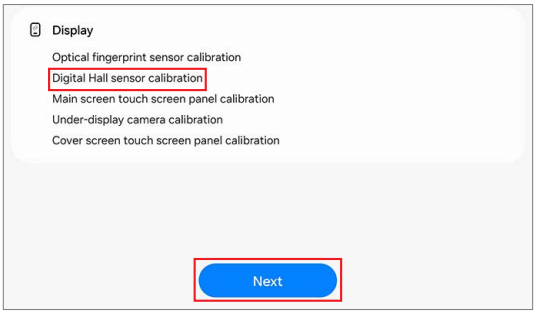
     When calibration is complete, the main screen will turn on normally.
- **For Flip models**: If the main screen does not turn on after being replaced (the main screen is off and the cover screen is on when the device is unfolded), follow the steps below to force the main screen to turn on and perform 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.

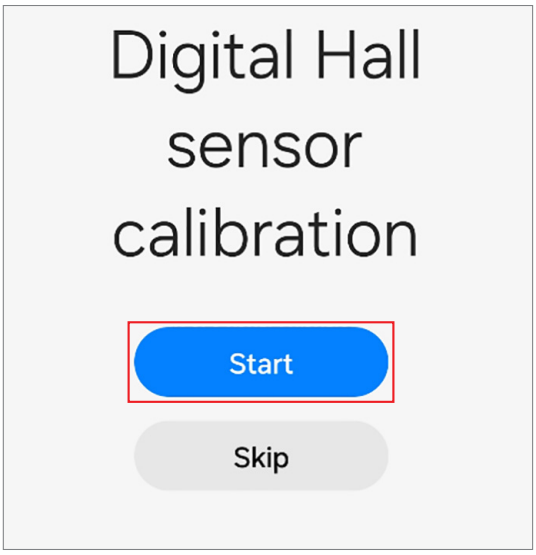
2 Select the part that you have replaced and tap **Next**.



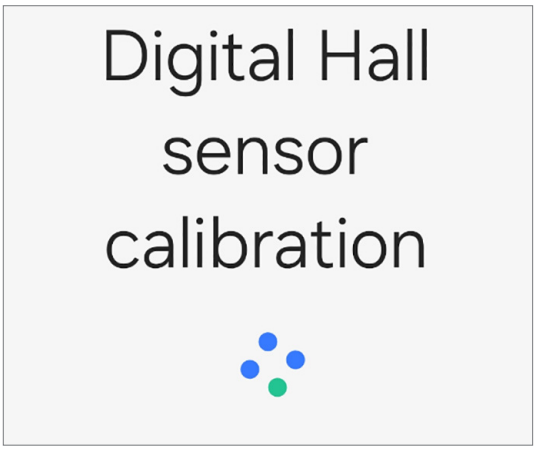
3 Check part and calibration and tap **Next**.



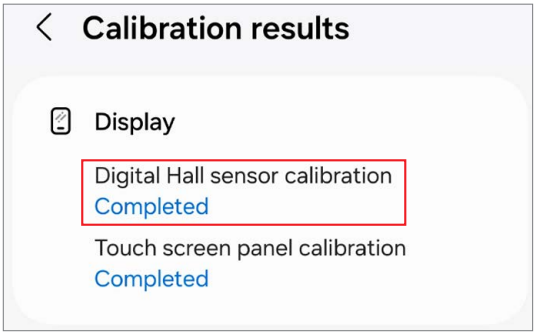
4 Tap **Start**.



5 The calibration will perform automatically.



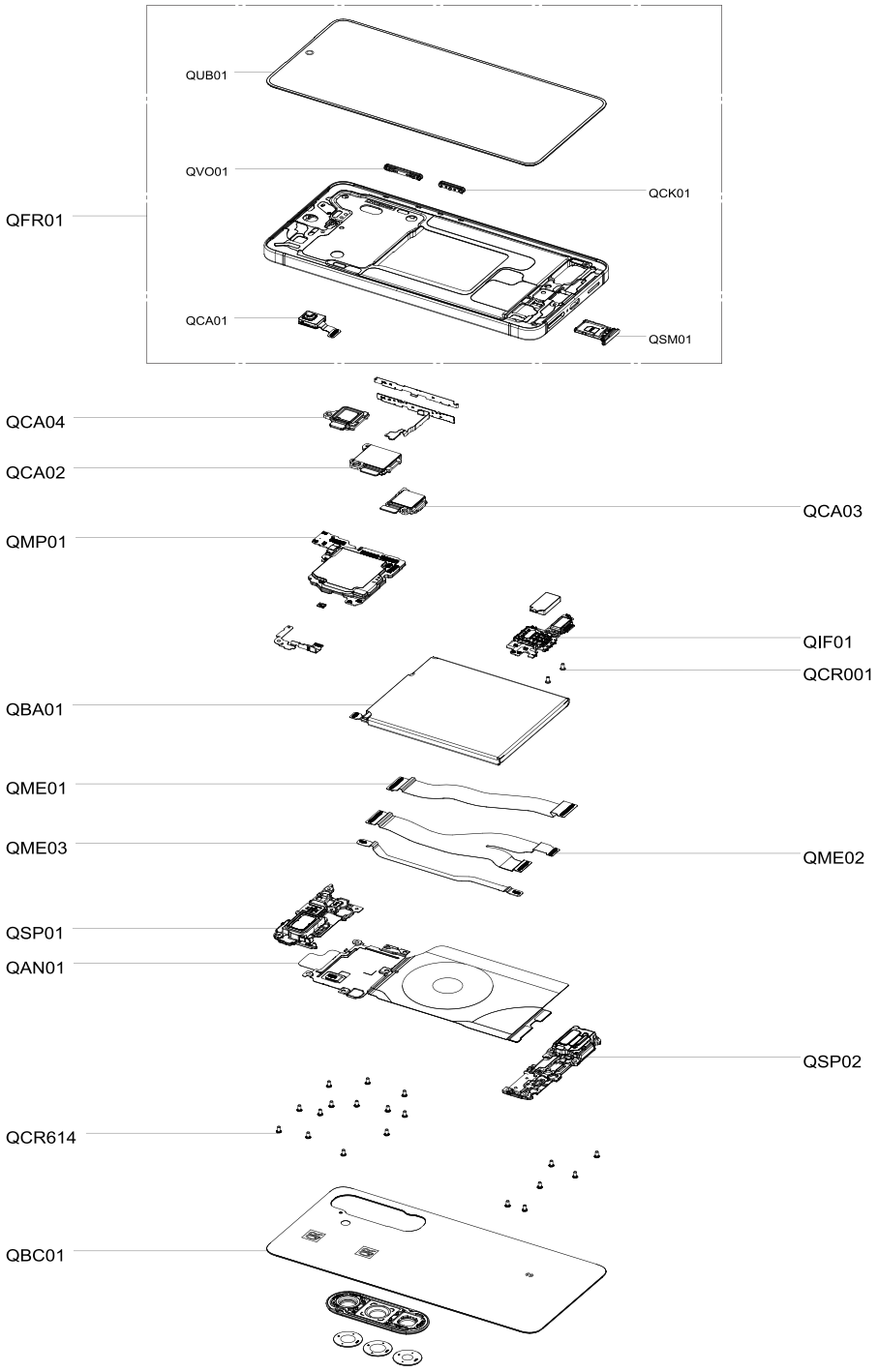
6 Check the calibration result.



Exploded View and Parts List

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

Exploded View



Parts List

Number	Name
QCR614	Screw 3614
QME03	Main Flex Cable 1 (Charging Port to Main Board)
QSP02	Bottom Speaker
QCA04	Rear Camera (Ultra Wide)
QCA03	Rear Camera (Tele)
QCA02	Rear Camera (Wide)
QAN01	Wireless Charging Module
QSP01	Top Speaker
QCR001	Screw 3554
QCK01	Side Button
QVO01	Volume Button
QIF01	Charging Port
QCA01	Front Camera
QBC01	Back Cover
QSM01	SIM Card Tray
QUB01	Screen
QME02	Main Flex Cable 2 (Screen to Main Board)
QME01	Main Flex Cable 3 (Charging Port to Main Board)
QFR01	Screen Module
QBA01	Battery
QMP01	Main Board (PBA)

Disassembly and Assembly

Tools for Disassembly and Assembly

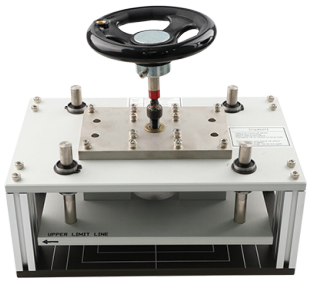
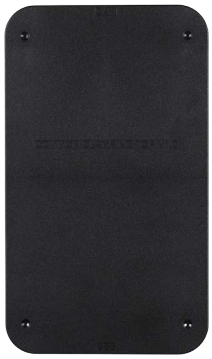
When repairing devices, you absolutely must wear protective equipment for your safety.

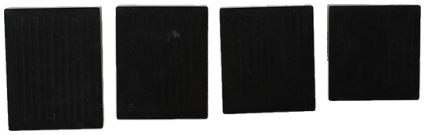
Availability of rental services for toolkits with a complete set of tools for self repair service may vary depending on the country and is currently available only in limited countries.

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

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

Tool	Image	Description
ESD Safe Tweezers and Round Tip Metal Tweezers		Tool for handling connectors, cables, and other parts • 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		Tool for disassembling the back cover, screen, and other parts
Acrylic Protective Cover for Broken Glass		Prevents injuries and scattering caused by broken glass
Calibration Rubber for Optical Fingerprint Sensor		Tool to calibrate the optical fingerprint sensor after replacing the screen This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.

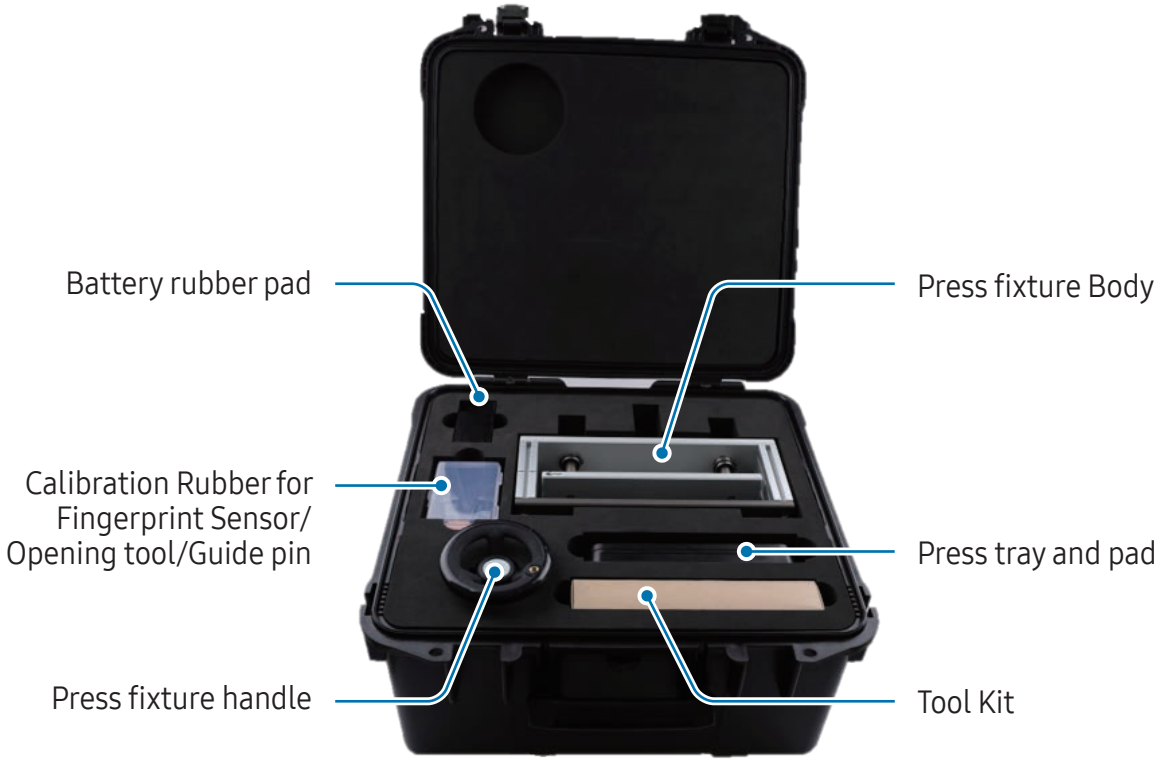
Tool	Image	Description
Press Fixture		Tool for pressing the back cover, screen, or battery This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.
Bottom Press Tray		Tool to place the device when pressing the back cover, screen, or battery using the press fixture • This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service. • You can choose the one side of the bottom press tray depending on the back cover, screen, or battery.
Top Press Tray		Tool to cover the bottom press tray when pressing the back cover or screen using the press fixture 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	Image	Description
Top Rubber Pad		Tool to place into the top press tray when pressing the back cover or screen using the press fixture • This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service. • The rubber pads for the screen and back cover are different from each other.
Battery Rubber Pad		Tool to cover the battery when pressing the battery using the press fixture This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.
Press Stamp		Tool for pressing the back cover Availability of the bundled press stamp may vary depending on the country and is currently available only in limited countries.

Composition of Rental Toolkit

A detailed list of items in the toolkit is included below.

- The rental toolkit contains a complete set of the tools for self repair service and its composition may vary depending on the device.
- Availability of rental service may vary depending on the country and are currently available only in limited countries.
- The actual rented tool kit packaging may have different packaging than shown.



Fasteners (Adhesives and Materials) for Assembly

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

Item	Quantity	Image	Description
Back Cover Adhesive Tape	1		Double sided adhesive tape for attaching the back cover to metal frame
Front Camera Main Adhesive Tape	1		Double sided adhesive tape for attaching the front part of the front camera to metal frame
Front Camera Side Adhesive Tape	2		Double sided adhesive tape for attaching the left and right sides of the front camera to metal frame
Front Camera Top Adhesive Tape	1		Double sided adhesive tape for attaching the top of the front camera to metal frame
3rd Microphone Hole Adhesive Tape	1		Double sided adhesive tape around a microphone hole
Screw 3614	19		Screws for the rear (17 ea) Screws for the camera (2 ea)
Screw 3554	2		Screws for the charging port

Item	Quantity	Image	Description
Liquid Gel	1		Liquid gel to apply on the back of the main board The actual liquid gel may be different from the image.
Liquid Gel Masking Tape	1		Tape attached to apply the liquid gel to metal frame
Screen Side Adhesive Tape	1		Double sided adhesive tape for attaching the sides of the screen to metal frame This tape is only available when the screen itself is repaired.
Screen Middle Adhesive Tape	1		Double sided adhesive tape for attaching the middle of the screen to metal frame This tape is only available when the screen itself is repaired.

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. During assembly, 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.

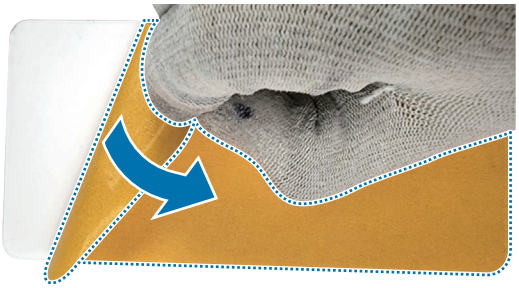
2 Remove the release film of the acrylic protective cover.

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.

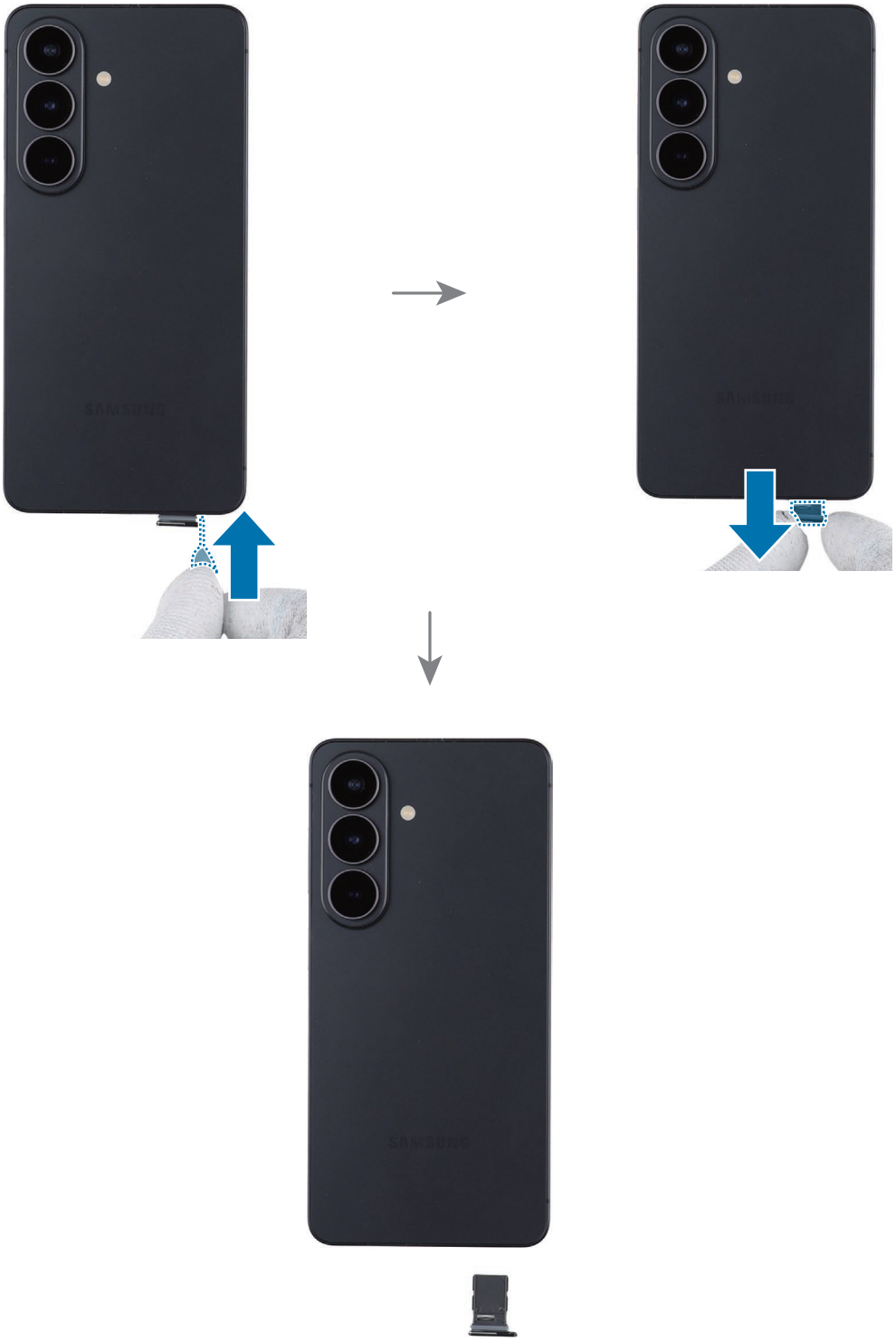


5 Follow the disassembly steps in this guide.

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.)

R&R
Rexio
care
SOFT COLD / HOT
GEL PACK
Remains
soft & flexible
after freezing
Suitable for
both cold & hot
therapy
Microwavable

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

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

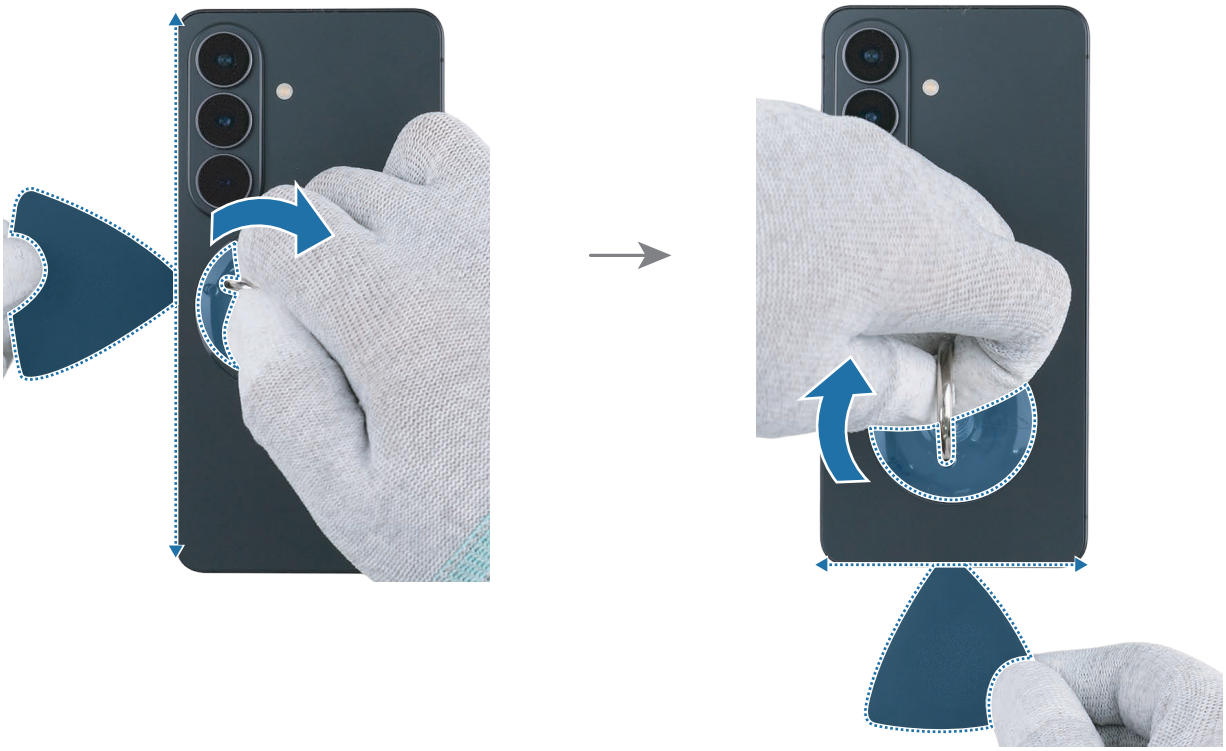
- As the back cover can be damaged by excessive force, be careful not to damage the back cover.
- Be careful that the suction cup does not adhere to the area where the tape or sticker is attached.

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

3 While pulling up the suction cup with strong, steady force to create the gap between the back cover and the metal frame, place the opening pick in the gap between the back cover and the metal frame 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 or back cover lens (●).

- Make sure to leave the opening pick inserted in the edges to prevent the adhesive from resealing. It is recommended that a larger area of the opening pick be inserted.
- If you have trouble creating a gap, heat the microwaveable heating bag additionally, and apply it on the back cover to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.



Reassembly

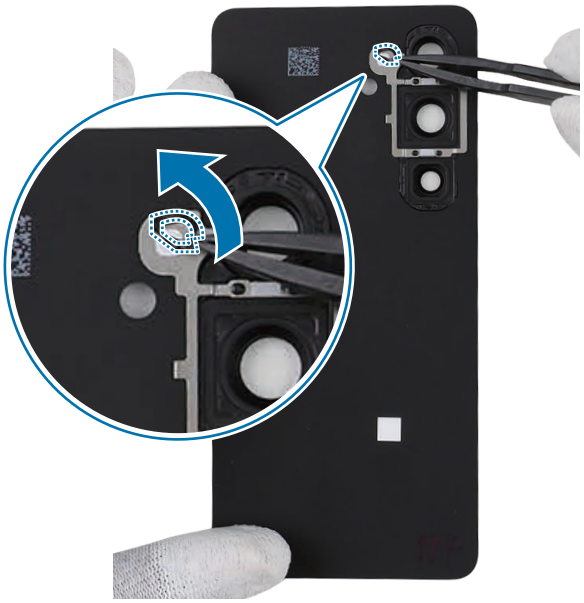
Leaving screws inside the device may damage internal components, such as the battery. During assembly, be extra careful not to leave any unassembled screws inside the device.

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. Remove the double-sided adhesive tape around the microphone hole together using the tweezers and your fingers.

- Be careful not to put your fingertips or any foreign objects on the rear camera 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.

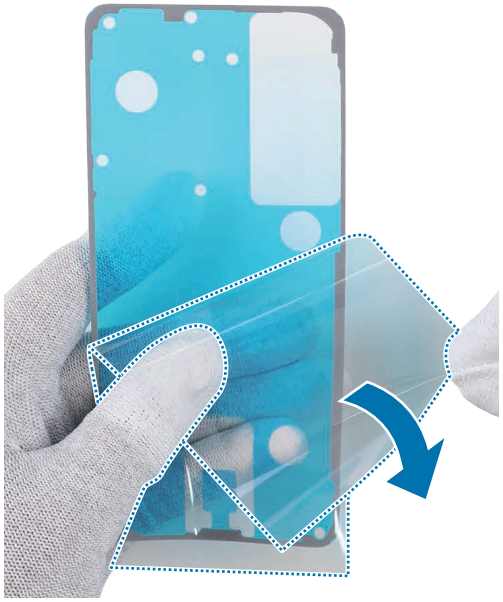


2 Now you can attach the new back cover adhesive tape using the bottom press tray. Remove the bottom press tray and guide pins from the rental tool kit packaging.

- 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.

3 Place the bottom press tray with the tape attachment surface facing up and insert the guide pins into the holes of bottom tray.

4 Remove the transparent film of the new back cover adhesive tape. Using the tweezers or your fingers, align the adhesive tape holes precisely to the guide pins of the bottom tray and place the tape on the tray.



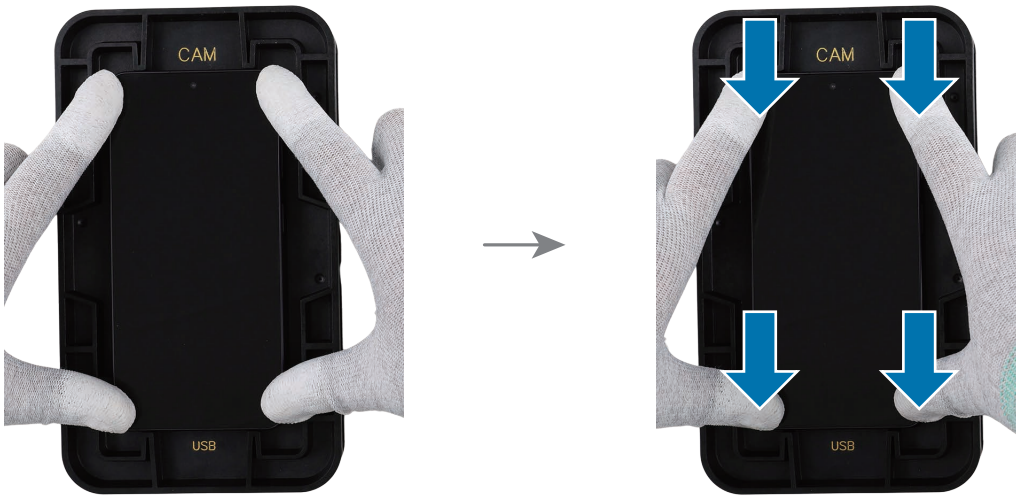
5 Press the areas around the holes of the tape with your fingers so that the tape can fit perfectly into the tray.

6 Carefully place the device horizontally on the tray with the screen facing up.

Be careful that the tape may be attached incorrectly if you tilt the device and place it in the tray.

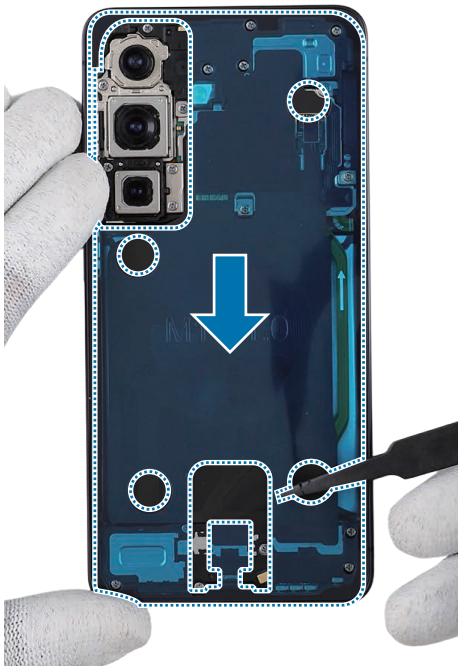
7 Place your fingers on each corner of the device and press down throughout the device for about 3 seconds so that the tape can be attached well.

The guide pins should be pressed at the same time.



8 Remove the device carefully from the tray.

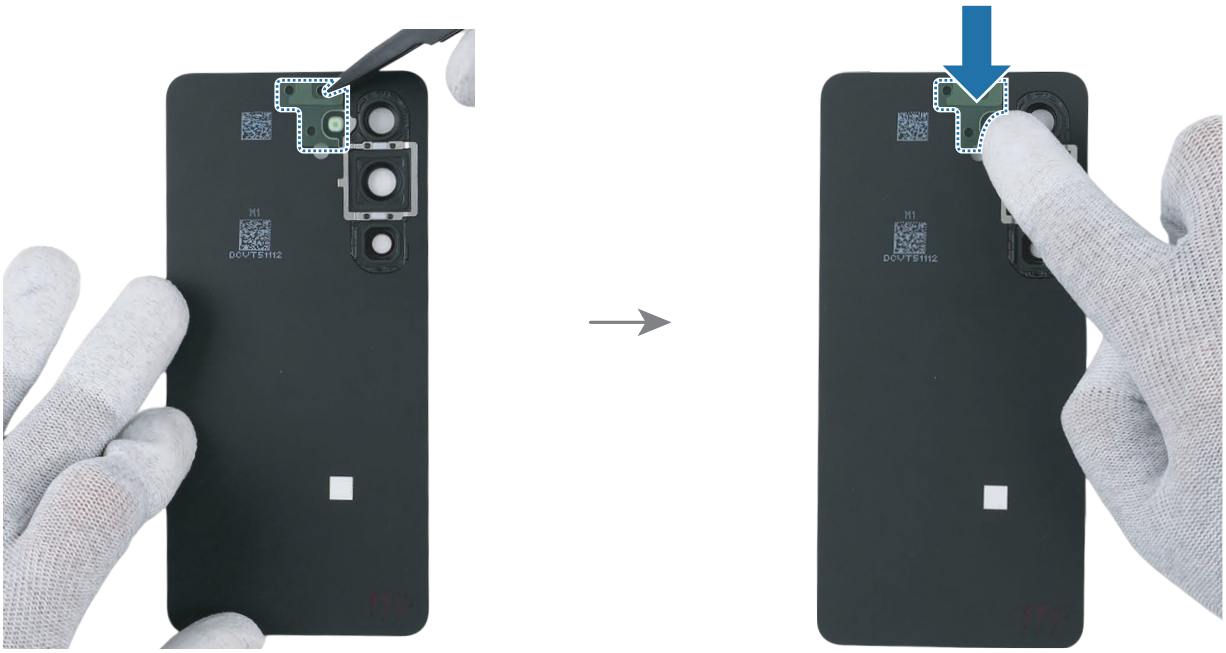
Availability of rental service may vary depending on the country and is currently available only in limited countries. If the rental tool kit packaging is not available, remove the transparent film of the new back cover adhesive tape. Using the tweezers, align the adhesive tape precisely on the metal frame and attach it.



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

Make sure the tape is attached correctly.

10 Remove the release film under the new microphone hole adhesive tape. Using the tweezers and your fingers, attach the tape around the microphone hole inside of the back cover. Press down the attached tape using the tweezers or your fingers.



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

12 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.

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

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

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

Top Speaker

The top speaker is built into the rear top.

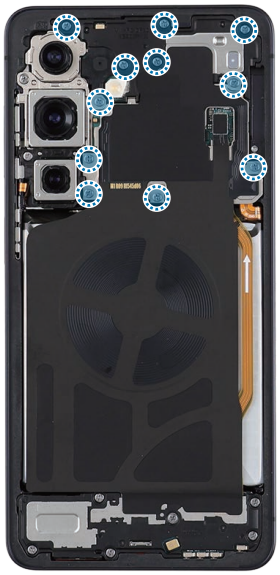
Disassembly

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.

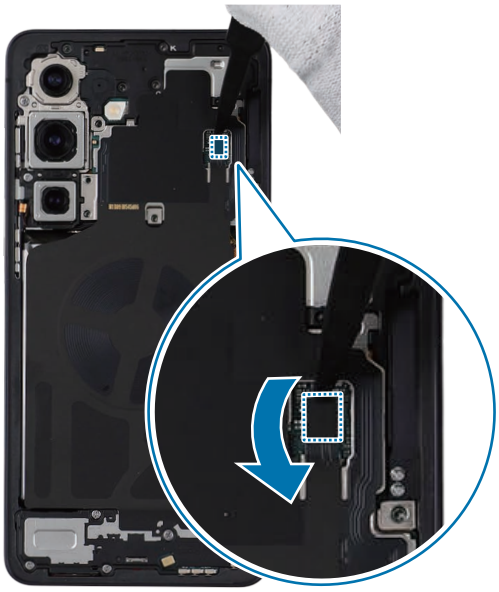
Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.

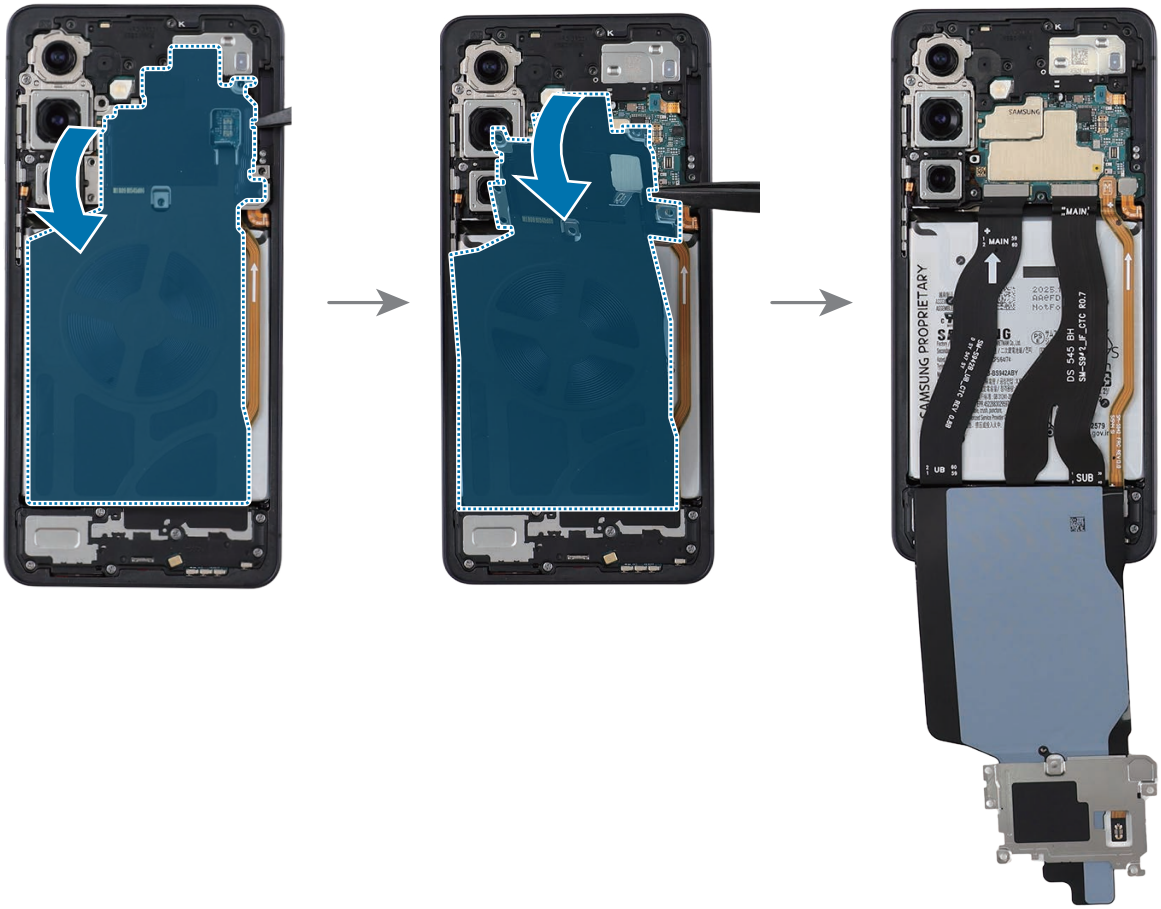


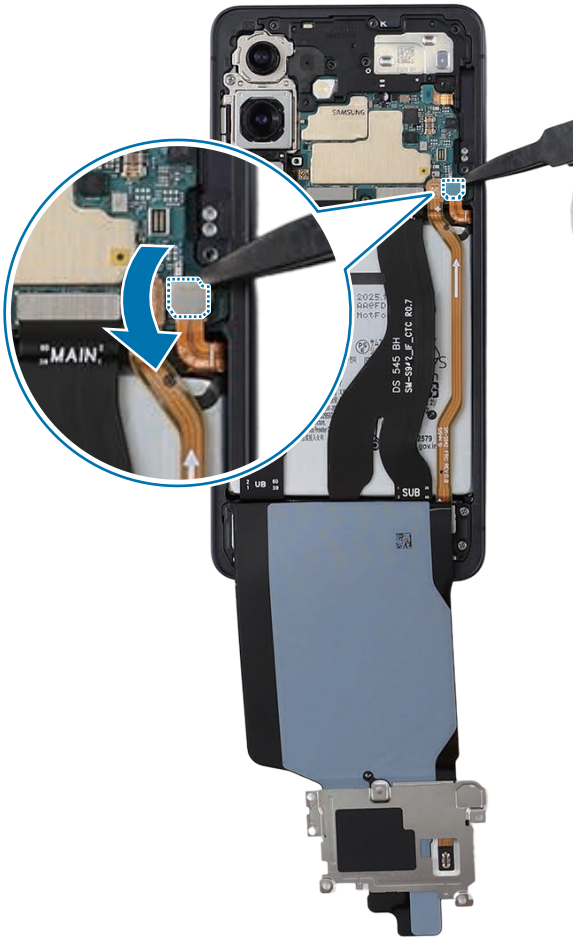
2 Using the tweezers, separate the NFC antenna connector. Using the tweezers or your fingers, lift up on the metal plate carefully and pull it out from the device, and tilt it back to downward slowly. Then, disconnect the battery connector from the main board using the tweezers. Using the tweezers, disconnect 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 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.




SAMSUNG
MAIN
SAMSUNG PROPRIETARY
SUB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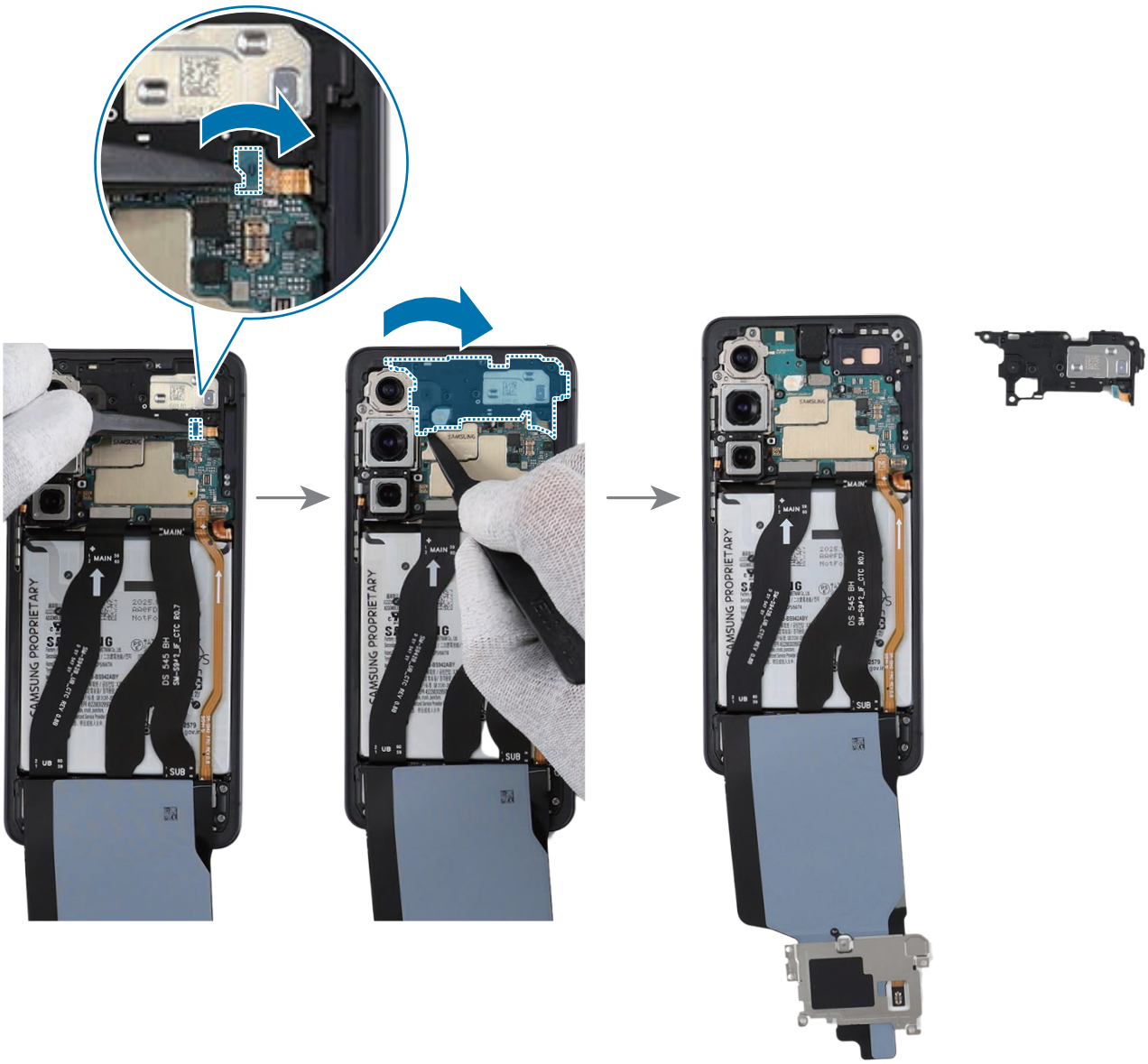
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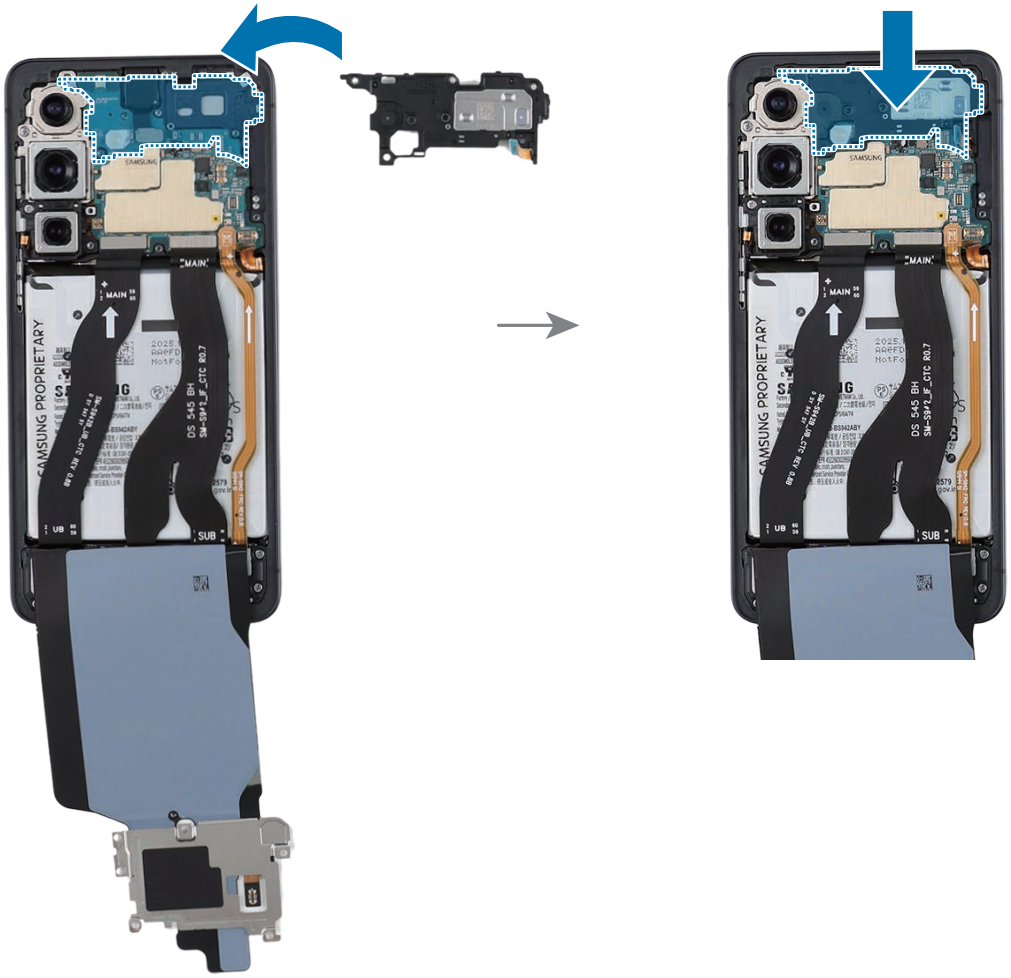
Reassembly

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.

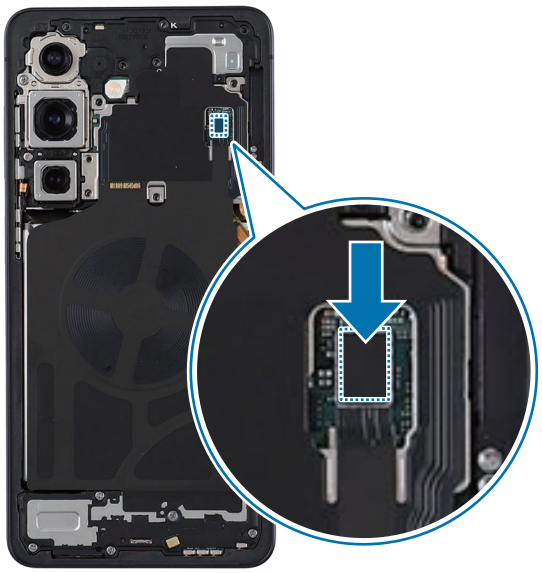
Be careful not to damage the battery.

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

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

- 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.



6 Check the screw 3614 (11 ea) at the 11 different points on the top of the rear and fasten them using a cross-head screwdriver.

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.

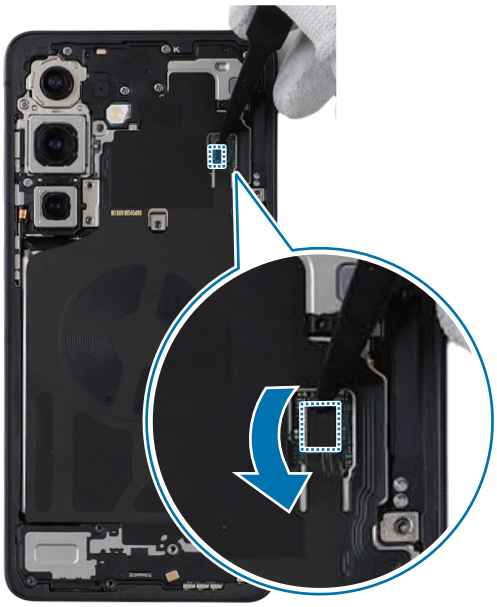
1 Check the 12 screws on the top and bottom of the rear and remove them using a cross-head screwdriver.

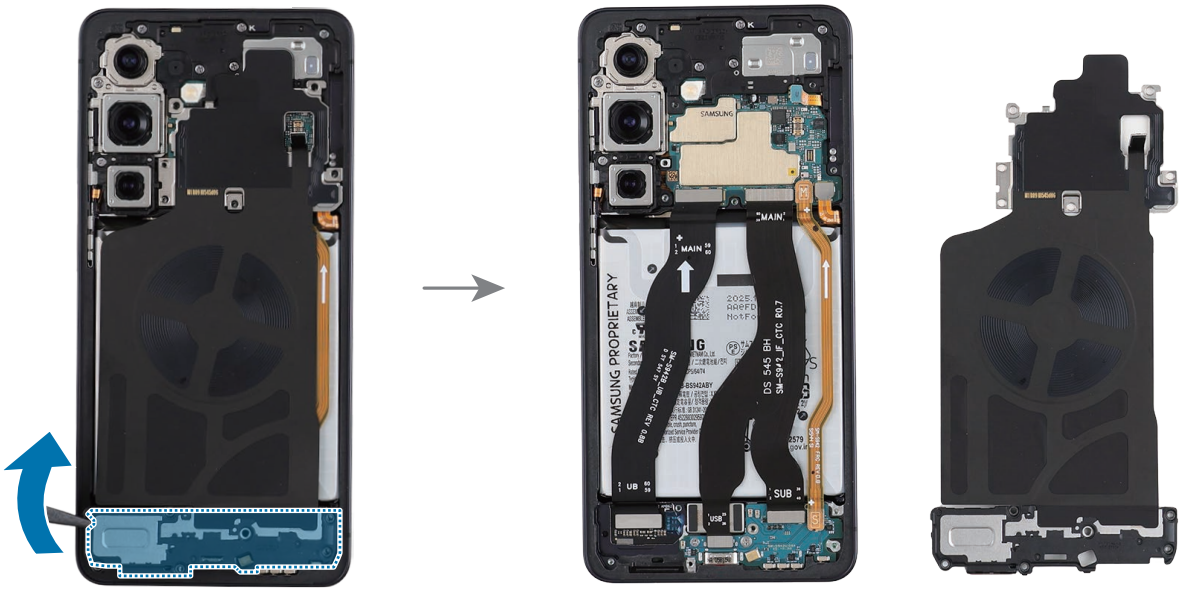
Be careful not to damage the main board and near components.

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 on 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 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.

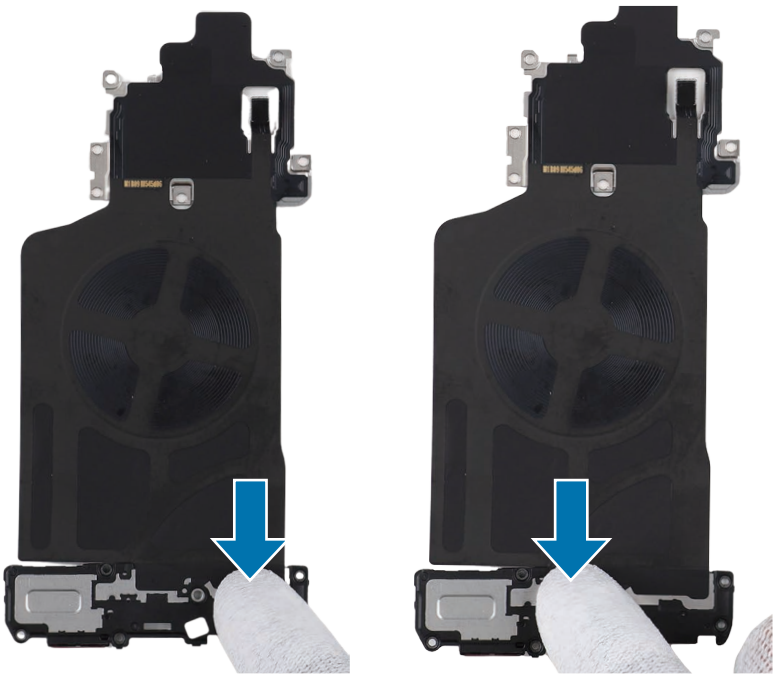
Reassembly

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.

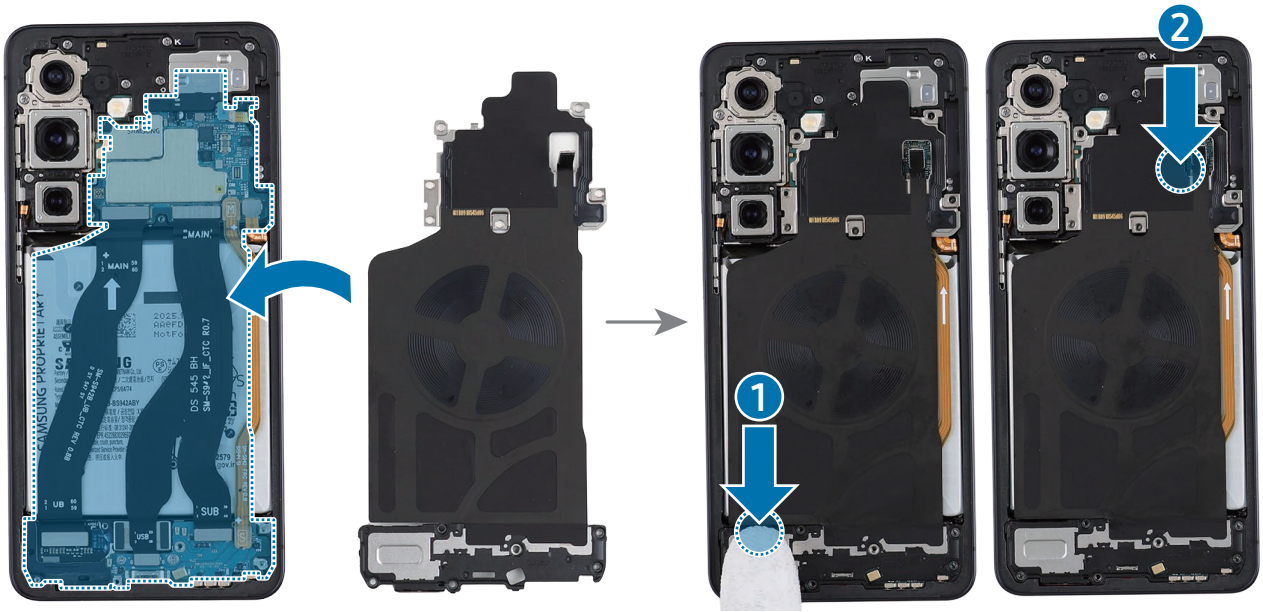
2 Gently press down the adhesive parts with your fingers so that the wireless charging module can be attached well.



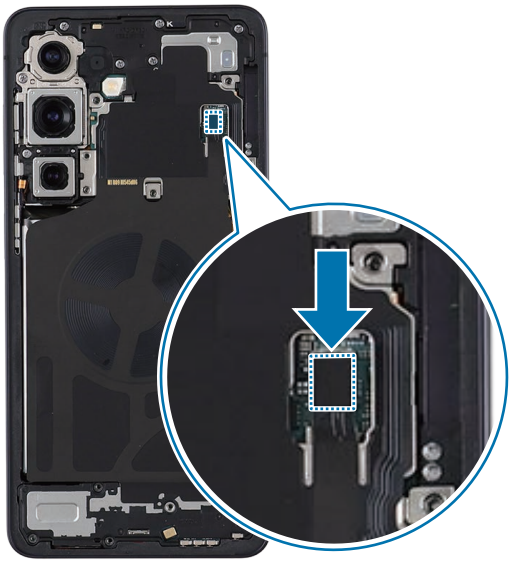
3 Using the tweezers and your fingers, assemble the lower part of the speaker module first, and press down on it in its position with your fingers until you hear a locking sound. Assemble the upper side of the wireless charging module above the main board and press down on it in its position with your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



5 Check the screw 3614 (12 ea) at the 12 different points on the top and bottom of the rear and fasten them using a cross-head screwdriver.

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.

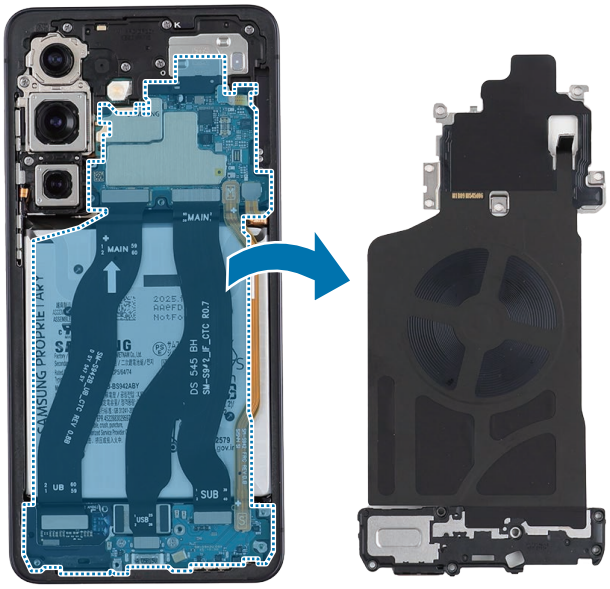
Charging Port and Microphone

The microphone is built into the charging port module.

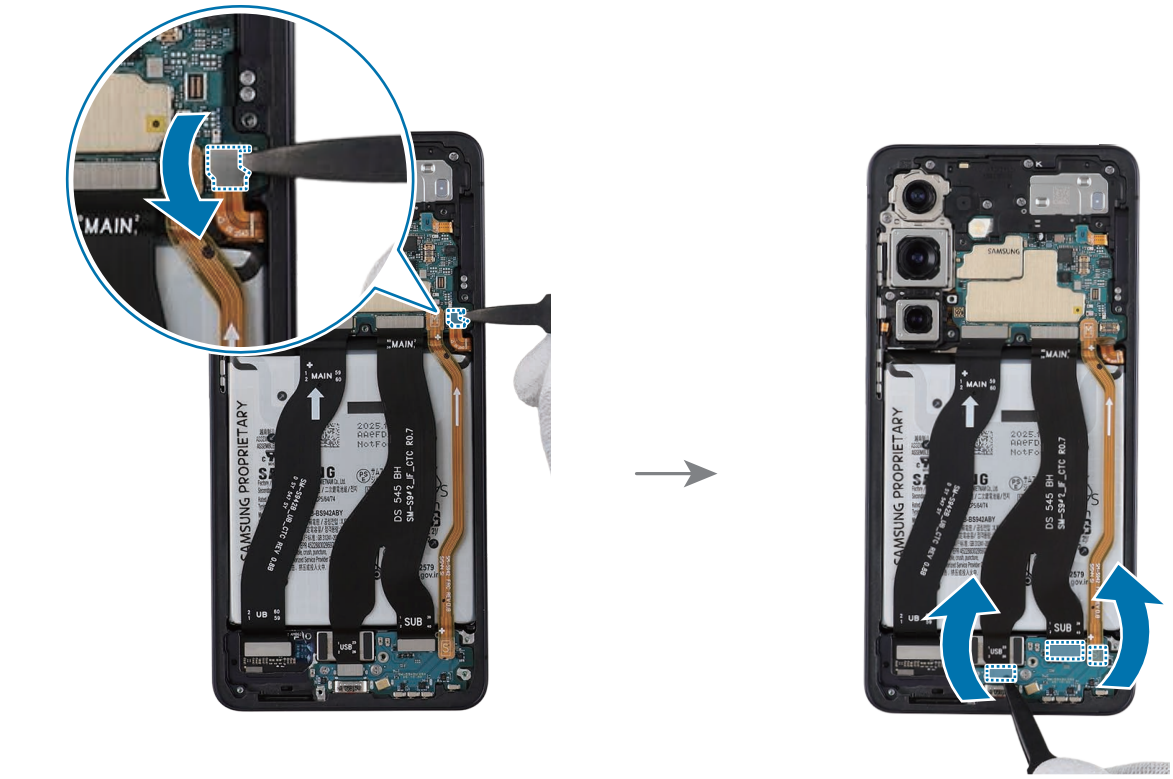
Disassembly

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 3 flex cable connectors from the charging port using the tweezers.

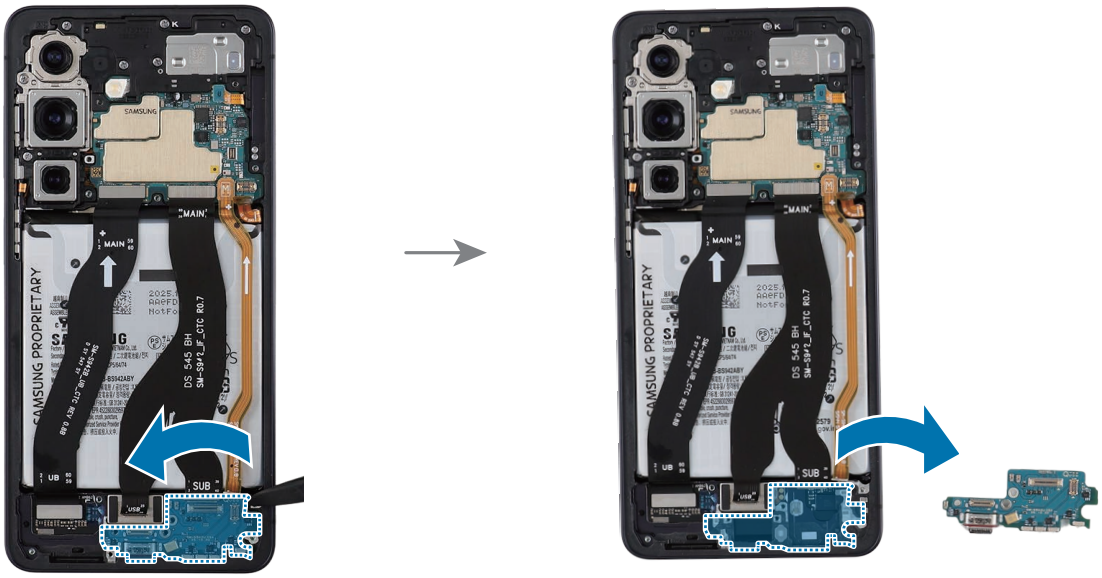


- Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.

3 Check the 2 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, using the tweezers, lift up on the separator groove of the charging port module and remove it carefully.



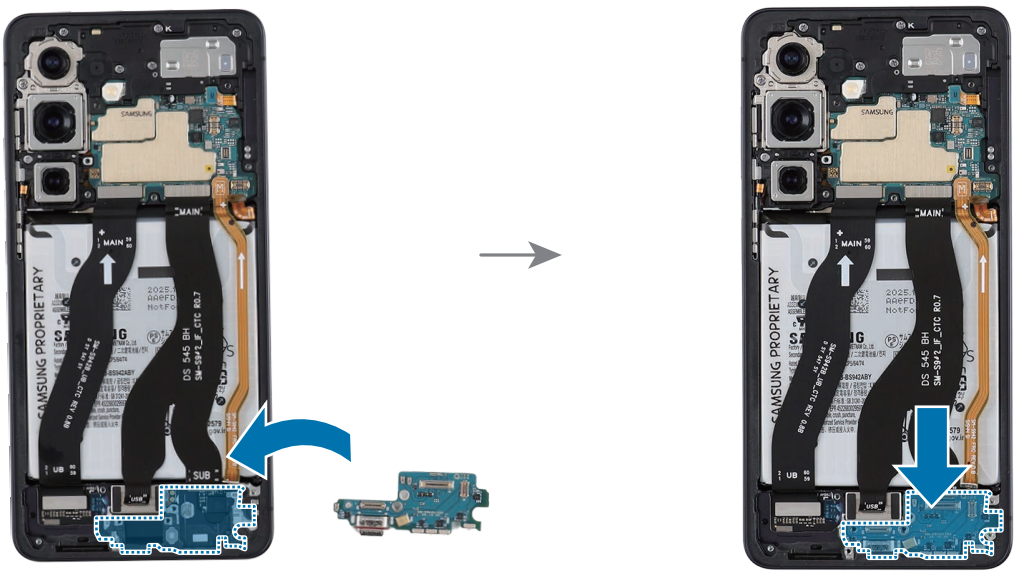
Reassembly

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, insert the new charging port module to 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 3554 (2 ea) at the 2 different points on the charging port and fasten them using a cross-head screwdriver.

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

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

Be careful not to damage the cable.

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.

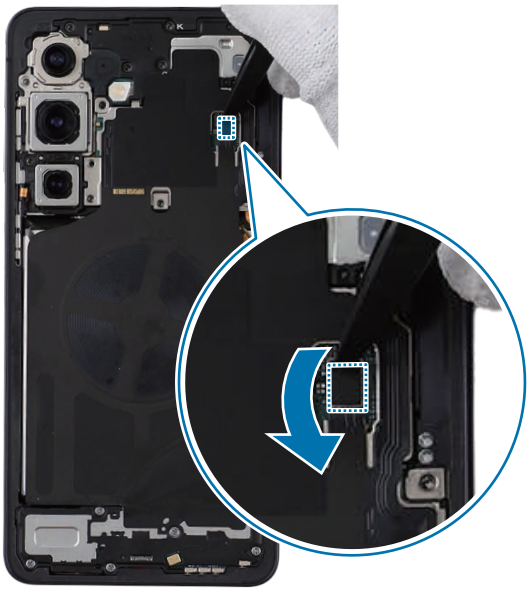
Be careful not to damage the main board and near components.

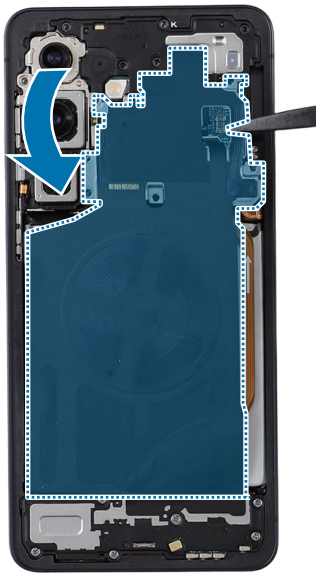
Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.

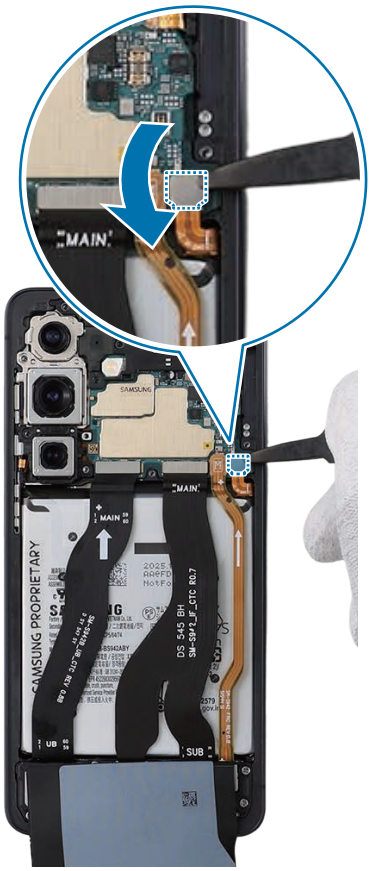
2 Using the tweezers, separate the NFC antenna connector. Using the tweezers or your fingers, lift up on the metal plate carefully and pull it out from the device, and tilt it back to downward slowly. Then, disconnect the battery connector from the main board using the tweezers. Using the tweezers, disconnect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

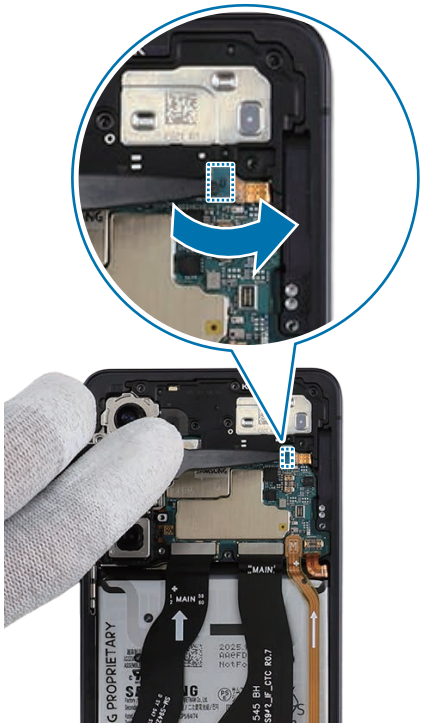
- Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.

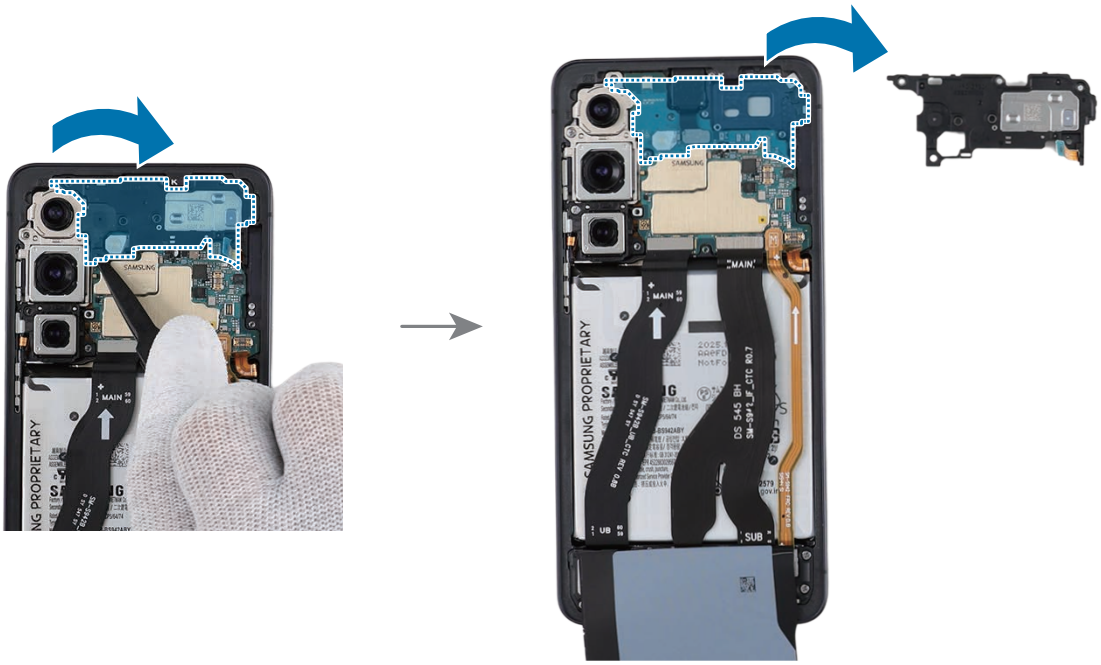
- Be careful not to damage the NFC antenna connector and the FPCB cables.
- Be careful not to tear any connected components near the wireless charging module.
- Ensure that the wireless charging module is unfolded to prevent damaging the FPCB.







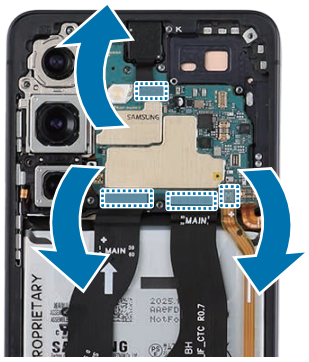


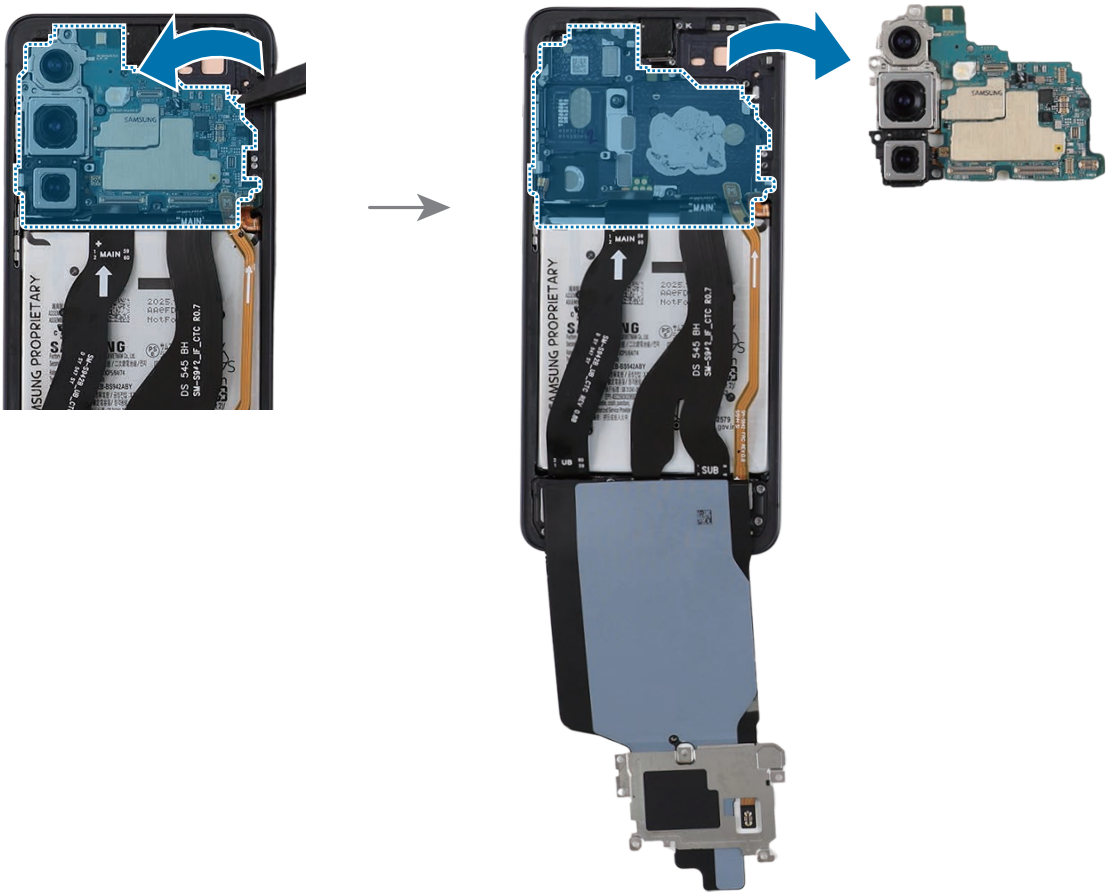


3 Using the tweezers, disconnect the front camera connector and 3 flex cable connectors from main board. Using the tweezers, lift up on the separator groove of the main board, and remove it carefully.

Be careful not to damage the battery.

- Be careful not to damage the 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.





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.

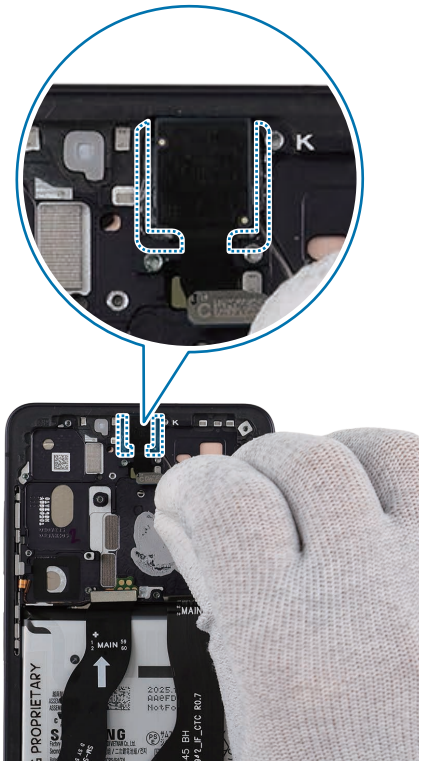
- Follow the heating bag's instructions for heating. The recommended time for heating the bag is 50 seconds in a 1000 W microwave and 70 seconds in a 700 W microwave. (Correct temperature for use: 55-65 °C.)
- Be careful not to damage the device through excessive heat. (It is recommended to disassemble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

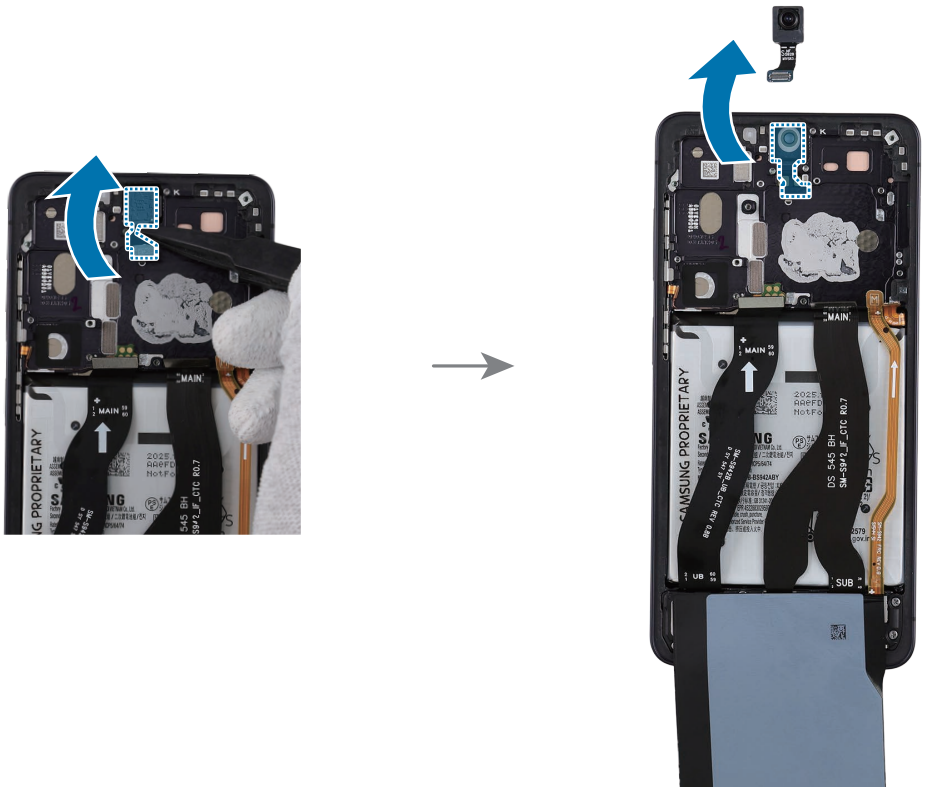
R&R
Rexio
care
SOFT COLD / HOT
GEL PACK

5 Before the heat cools with the heating bag applied, remove the adhesive between the front camera and the metal frame 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.

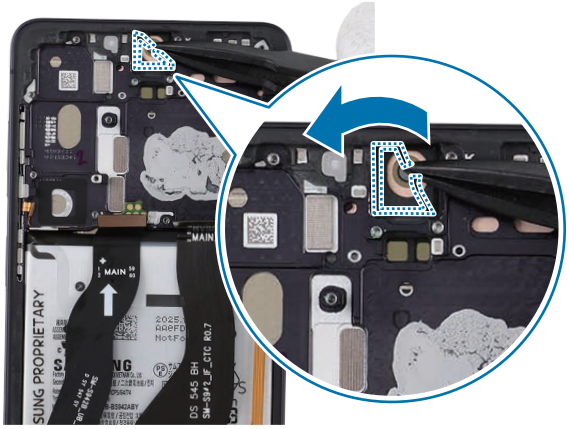




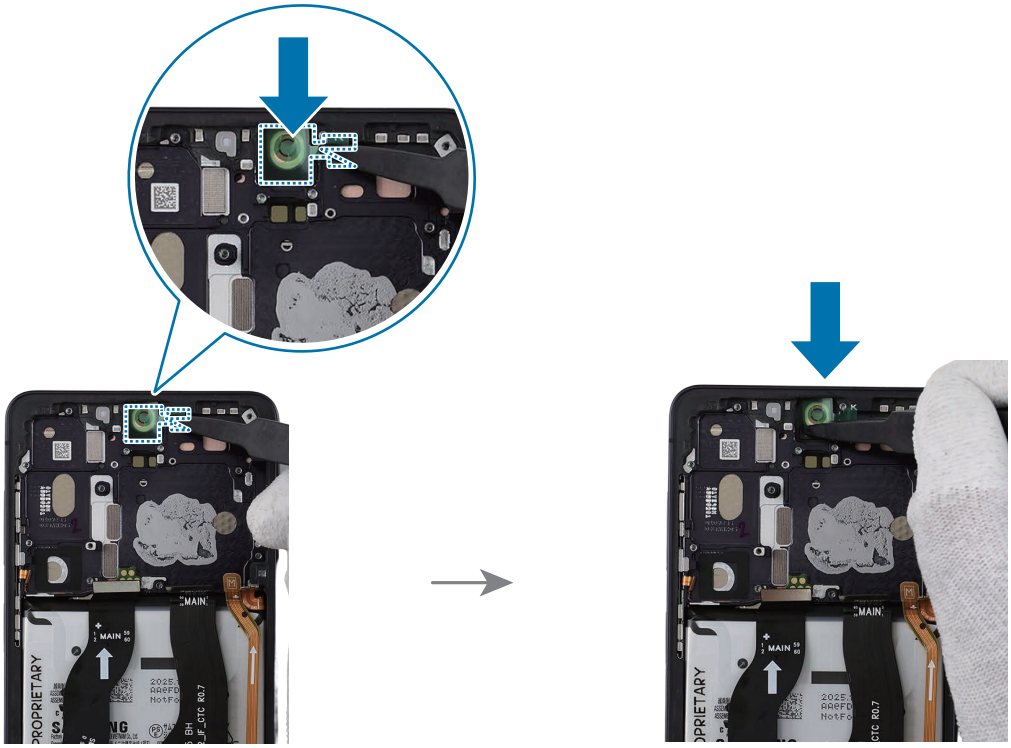
Reassembly

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

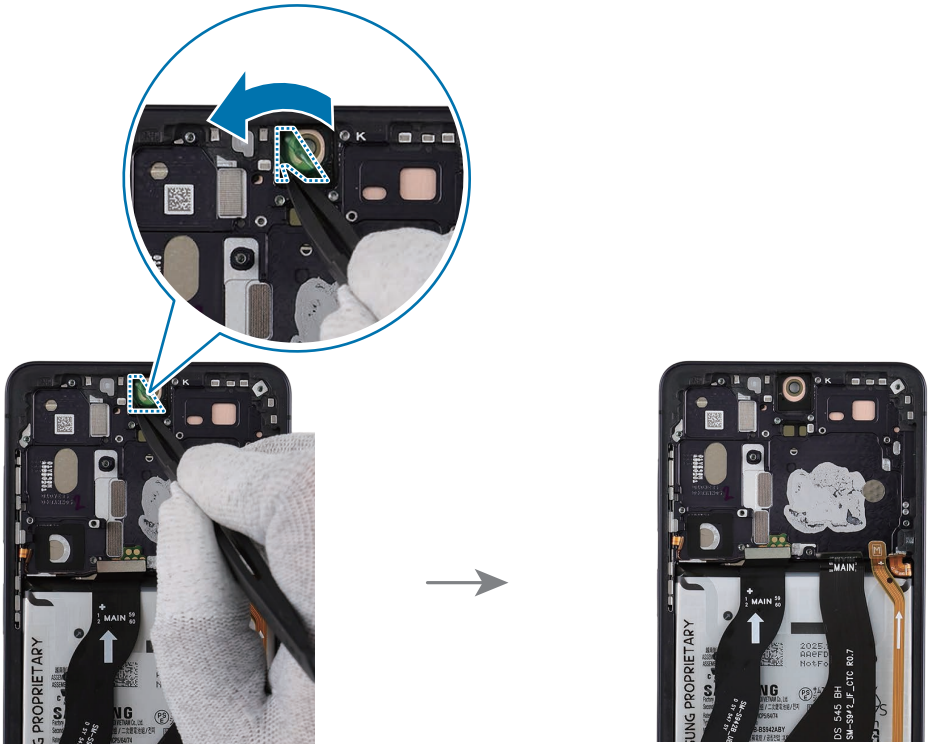
1 Using the tweezers, remove the adhesive and tape from the front camera hole completely.



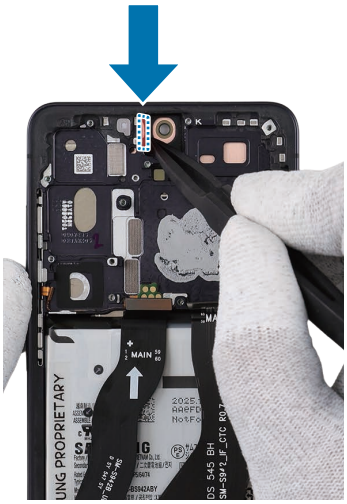
2 Remove the clear film from the new front camera main adhesive tape with the tweezers. Align the outside shape of the adhesive tape with the position of the camera hole and attach it accurately. Then, gently press down the tape with the tweezers so that the tape can be attached well.



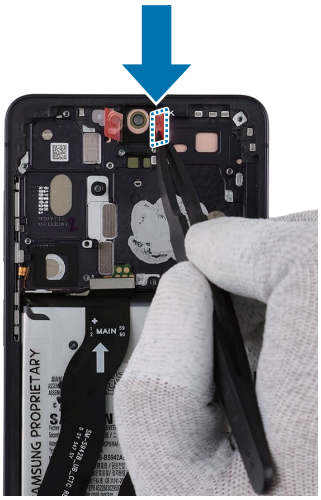
3 Using the tweezers, hold the protruding clear film of the attached tape and remove it carefully.



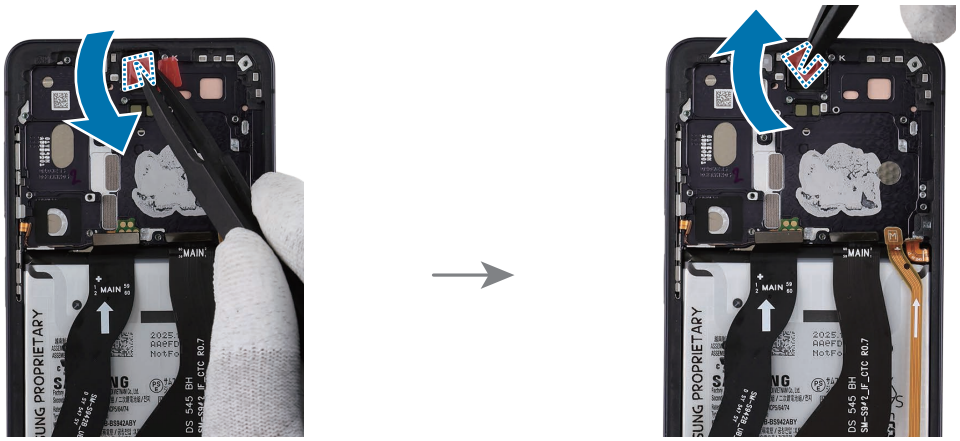
4 Remove the release film of the new front camera side adhesive tape. Align the tape with the left side of the front camera hole vertically and attach it accurately. Then, gently press down the tape with the tweezers so that the tape can be attached well.



5 Remove the release film of another new front camera side adhesive tape. Align the tape with the right side of the front camera hole vertically and attach it accurately. Then, gently press down the tape with the tweezers so that the tape can be attached well.

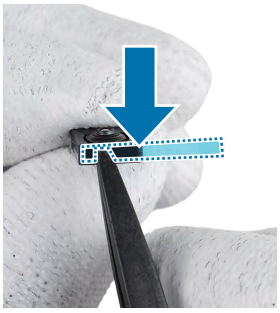


6 Using the tweezers, remove the protruding release films of the 2 tapes attached to the left and right sides of the camera hole.

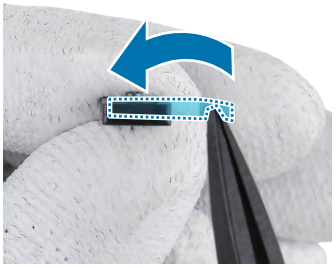


7 Remove the release film from the new front camera top adhesive tape with the tweezers, align the tape to the top of the front camera, and attach it accurately. Gently press down the tape with the tweezers so that the tape can be attached well.

Be careful not to damage the camera.



8 Using the tweezers, remove the release film of the top adhesive tape.



9 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.

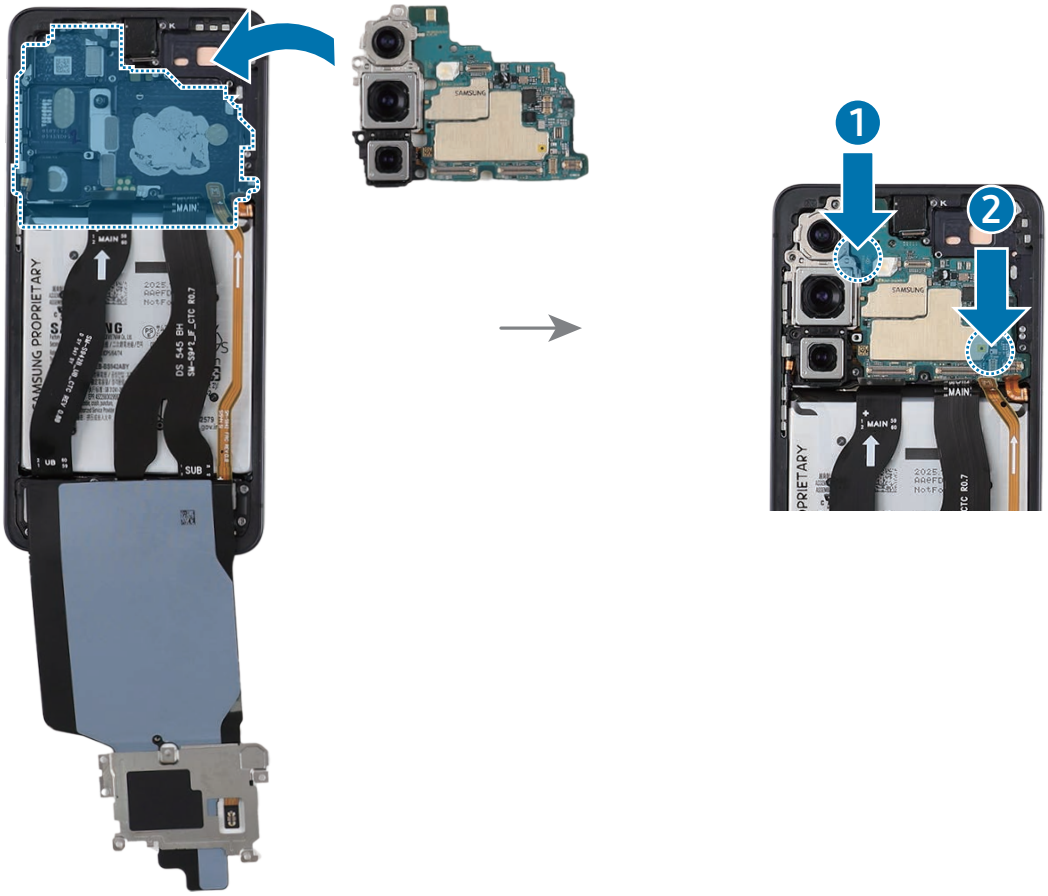
- Be sure to place the camera in the correct position.
- Be careful not to damage the camera lens.
- Be careful not to damage and scratch the camera module.

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

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

Be careful not to damage the battery.

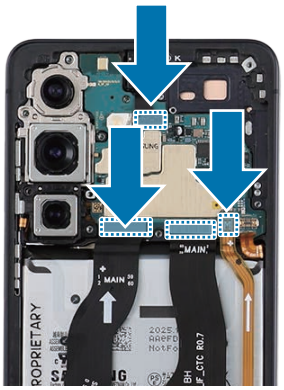
- Be careful not to damage the battery connector.
- The FPCB cables have to be positioned outside so as not to interfere when assembling the main board.



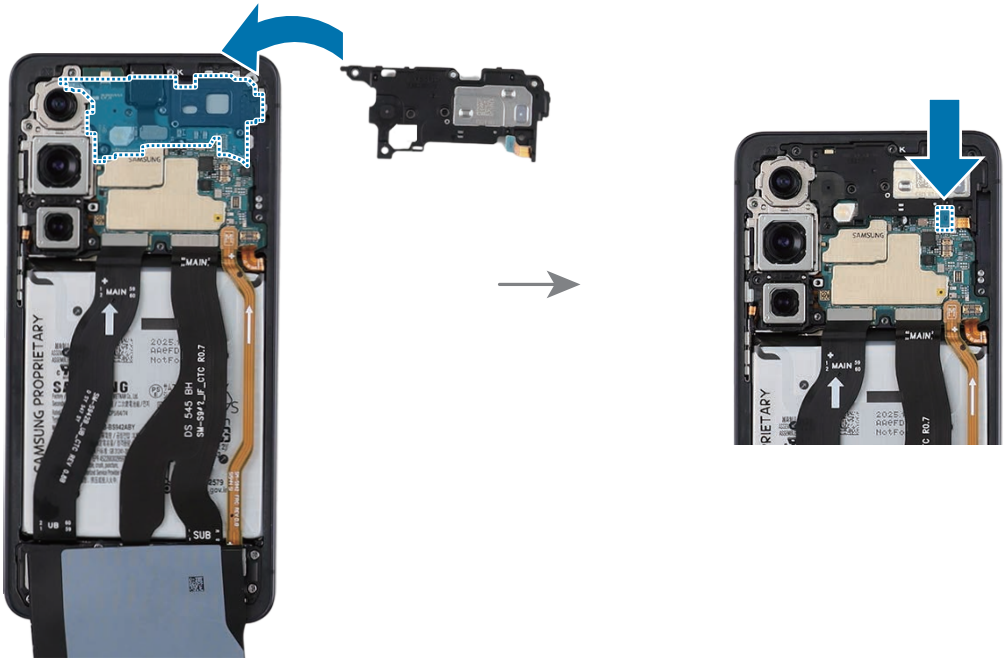
12 Using your fingers, connect the front camera connector and 3 flex cable connectors on the main board.

⚠ Be careful not to damage the battery.

Be careful not to damage the main board.



13 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.



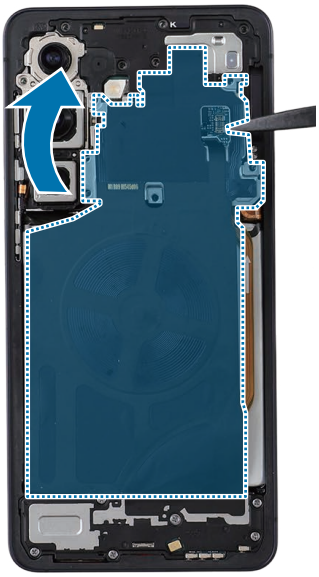
14 Connect the battery connector to the main board.

Be careful not to damage the battery.

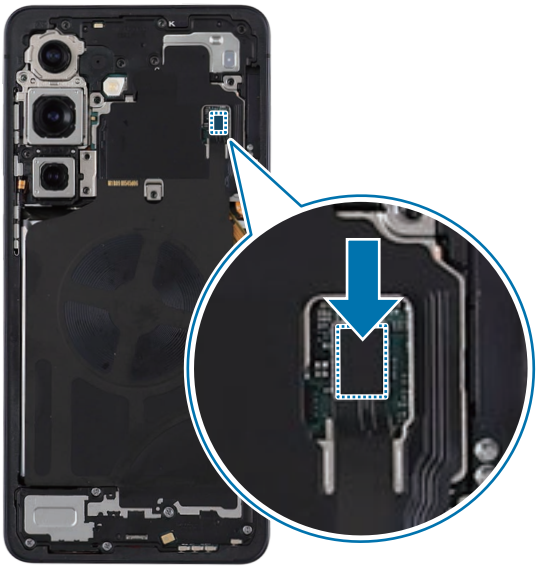
Be careful not to damage the battery connector and near components.

15 Hold the tilted wireless charging module with the tweezers or your fingers, and carefully assemble to its original state.

- 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.



16 Connect the NFC antenna connector to the main board.



17 Check the screw 3614 (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 near components.
- Be careful not to fasten the screws to the wrong position.

18 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.

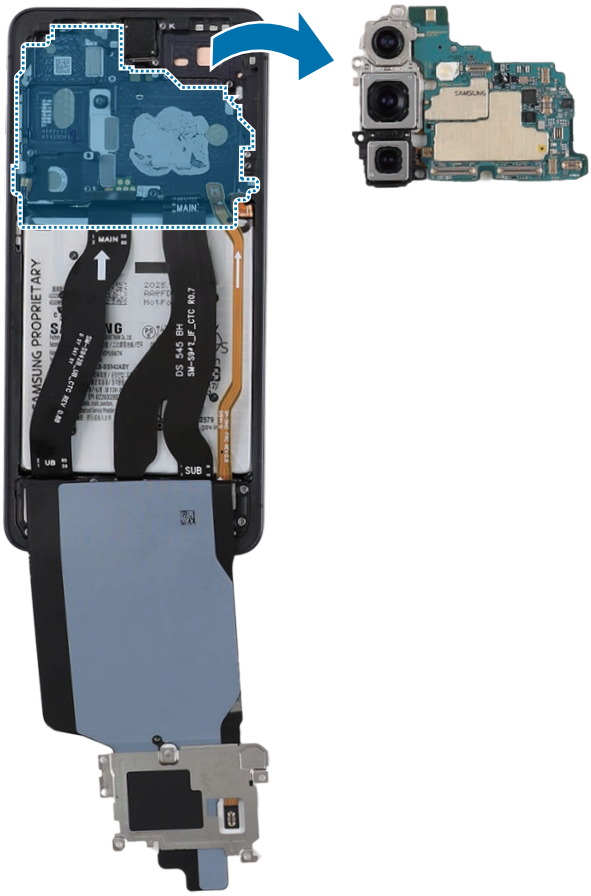
Reassemble the Back Cover to complete assembly.

Rear Camera

Disassembly

Remove the Back Cover first before you begin.

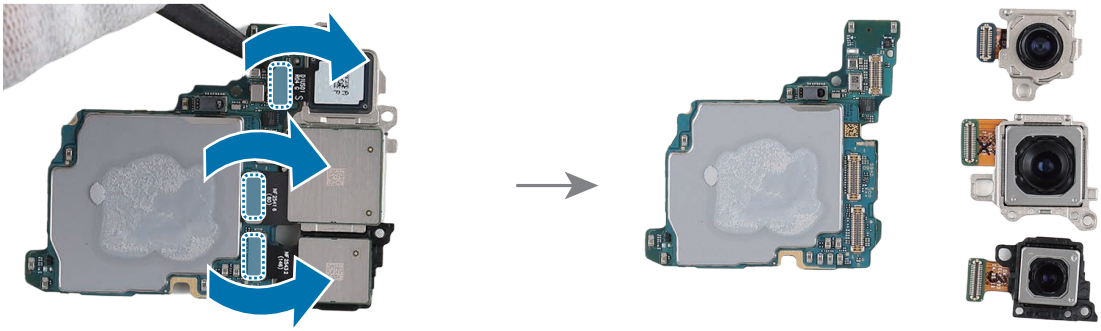
1 Check for the disassembly steps of the Front Camera and completely separate the main board with the rear cameras.



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.

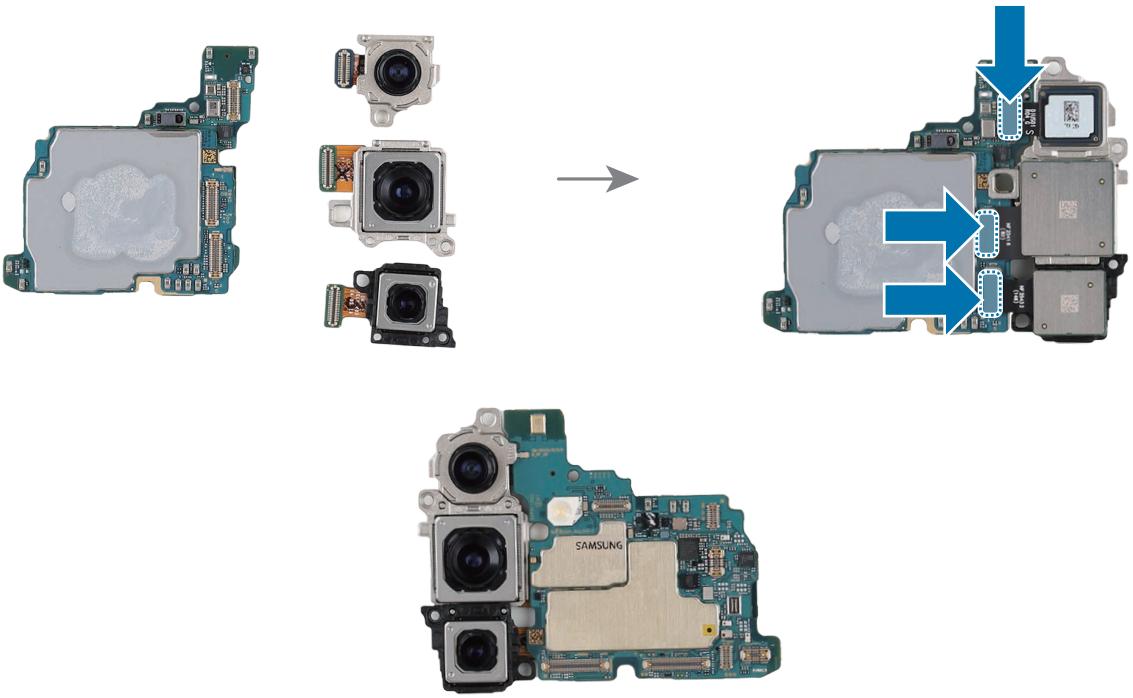


Reassembly

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

1 Using your fingers, connect the rear camera connectors to 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.

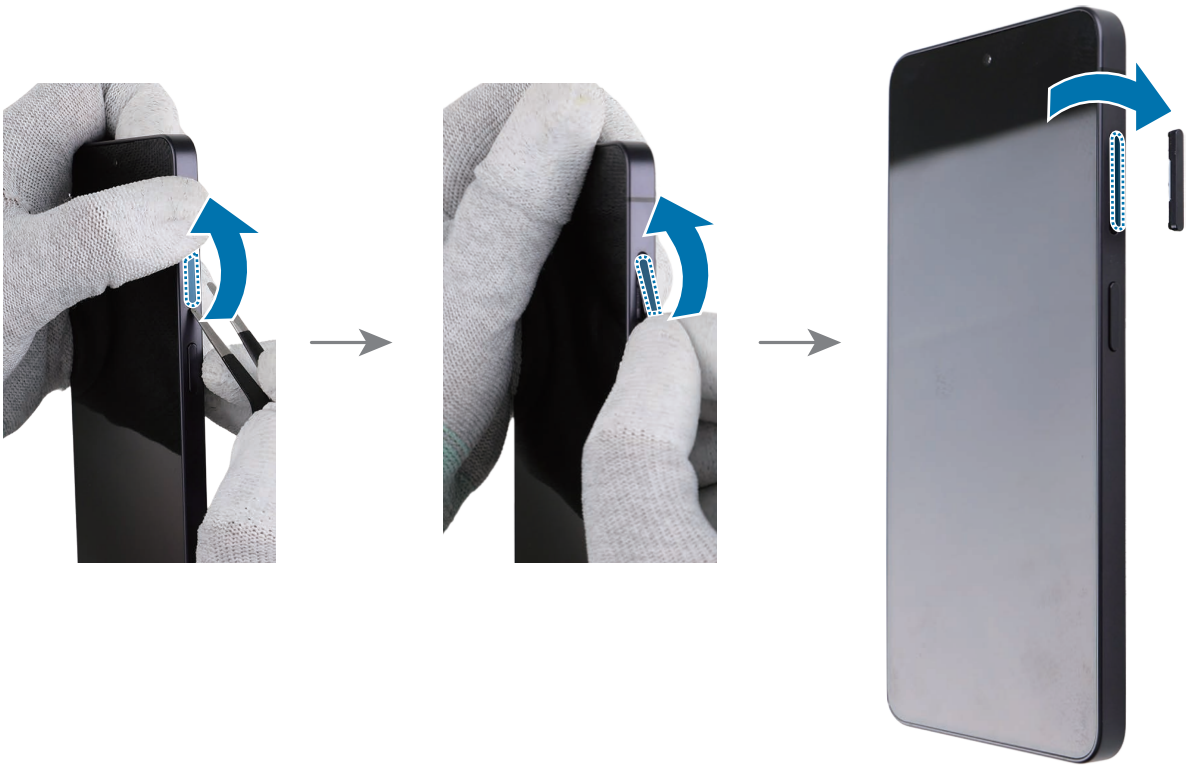
Button

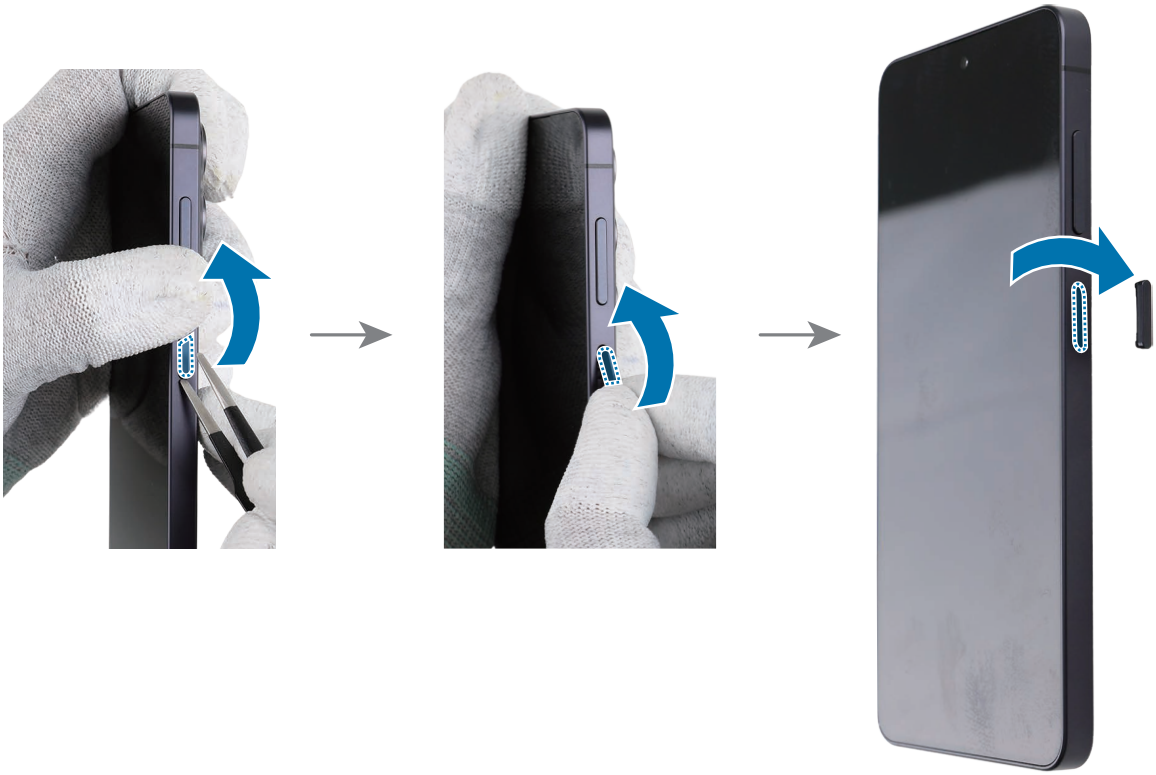
Disassembly

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.





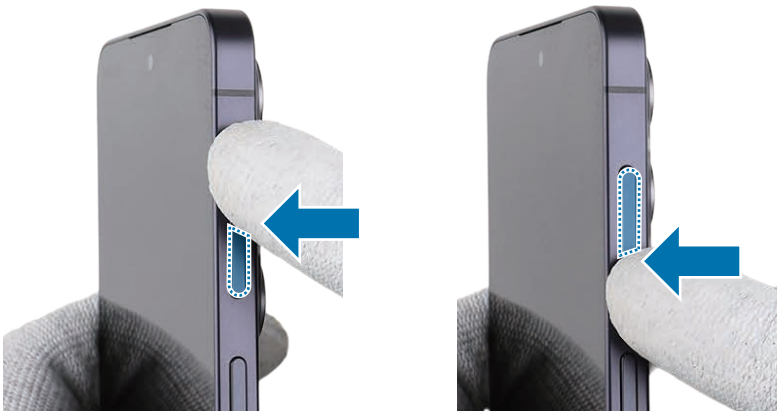
Reassembly

⚠ 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. Use your fingers to grab the Volume button and insert the button on 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 Volume 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. Use your fingers to grab the Side button and insert the button on 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 Side button to make sure it clicks. It should have the same sound and feel as before disassembly.

Screen Module

The screen module consists of the screen, metal bracket, front camera, and battery.

Disassembly

Remove the SIM Card Tray and Back Cover first before you begin.

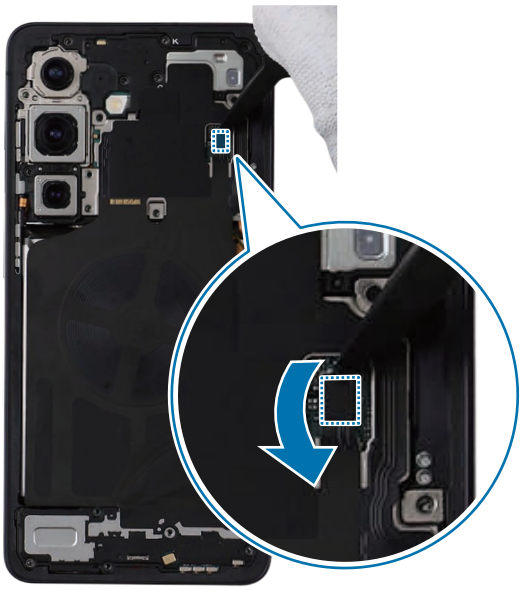
1 Check the 19 screws on the top and bottom of the rear and remove them using a cross-head screwdriver.

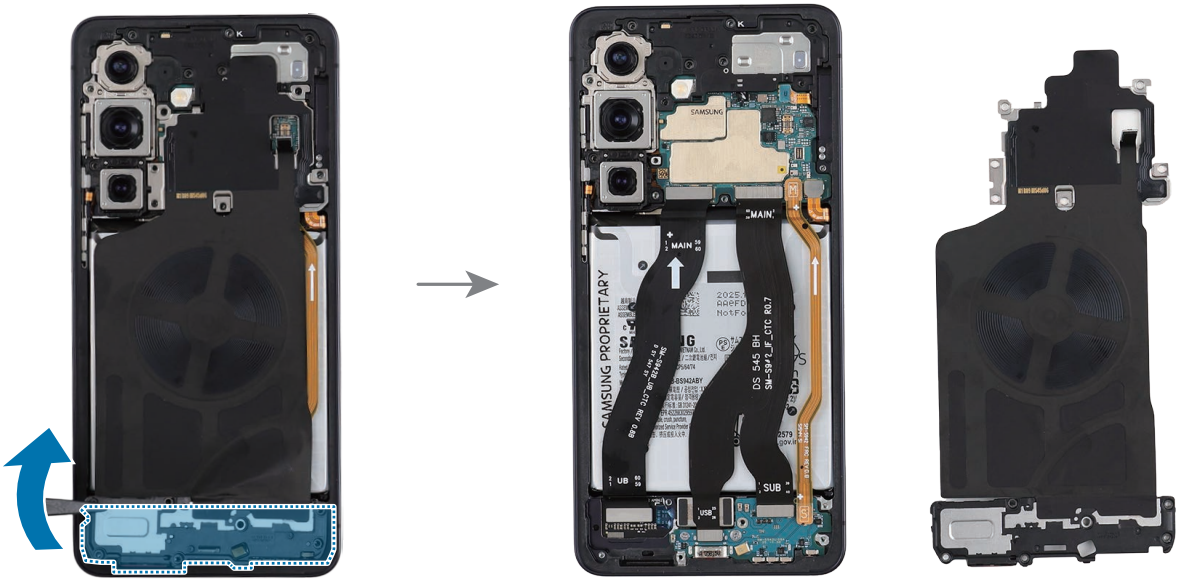
Be careful not to damage the main board and near components.

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.

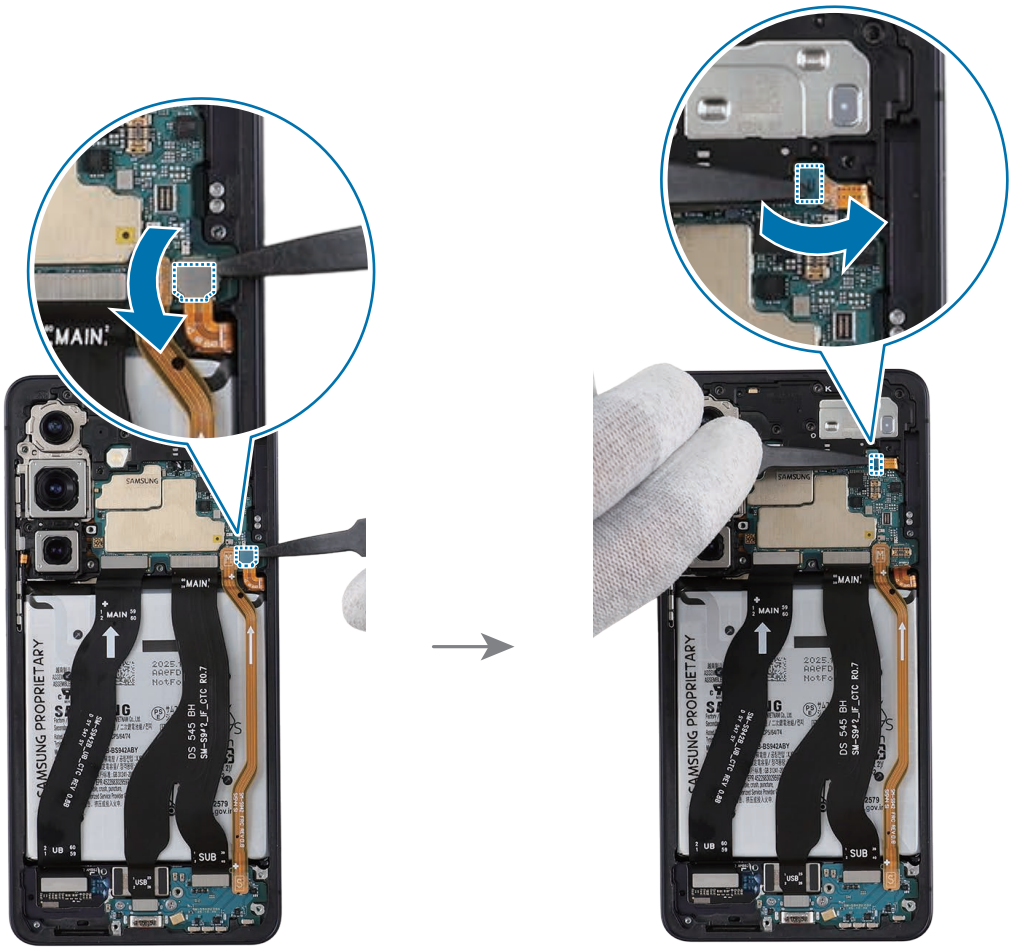
- Be careful not to damage the NFC antenna connector and the FPCB cables.
- Be careful not to tear any connected components near the wireless charging module.
- Ensure that the wireless charging module is unfolded to prevent damaging the FPCB.

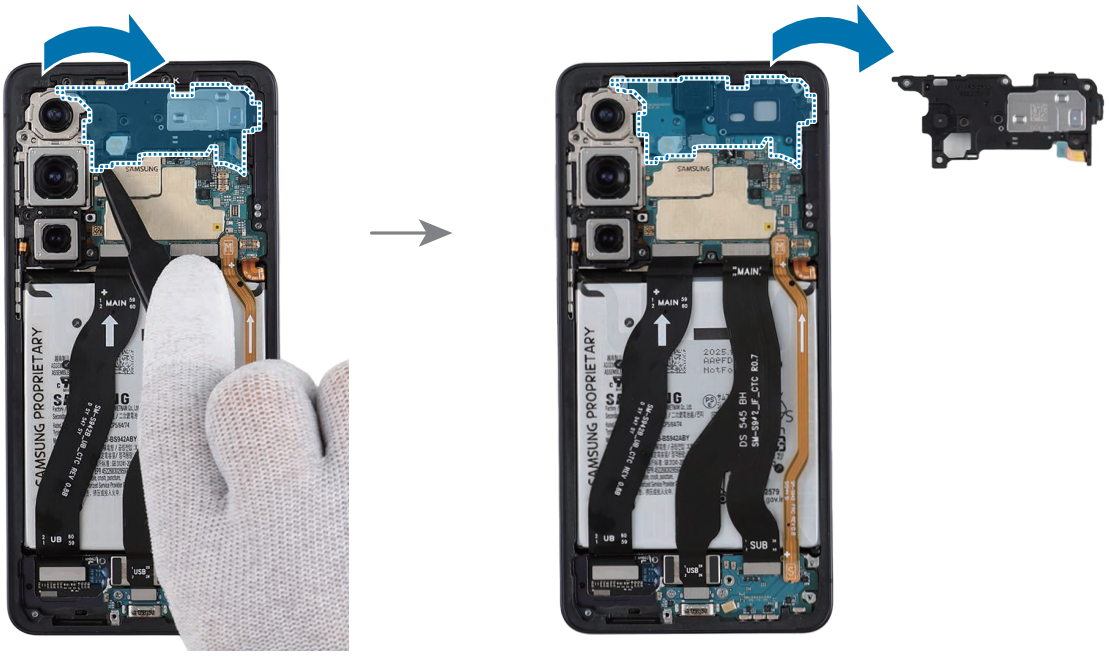




3 Using the tweezers, disconnect the battery connector from the main board. Using the tweezers, disconnect the top FRC connector and lift up on the separator groove of rear top and remove it carefully.

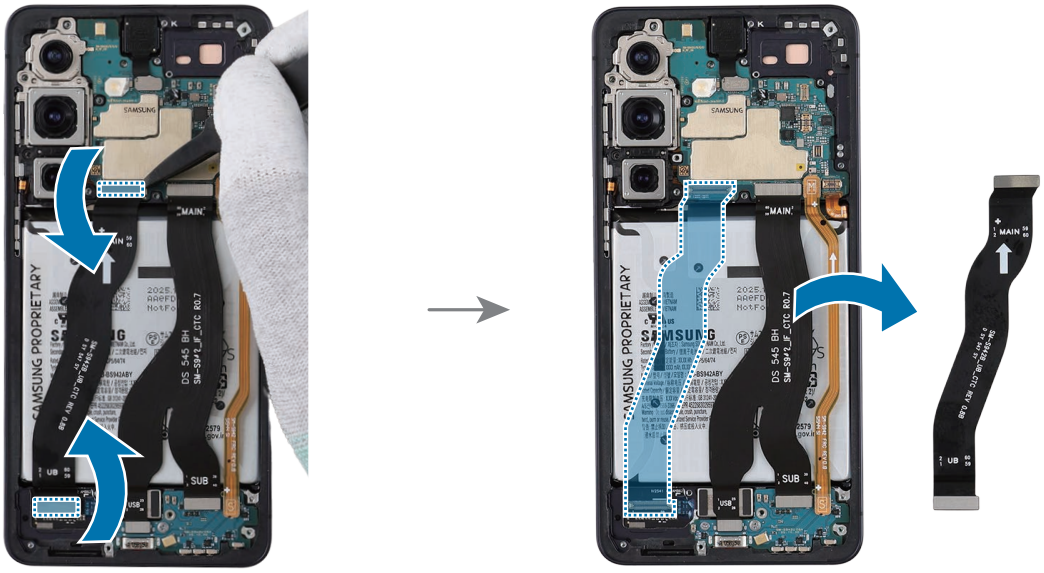
- Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.



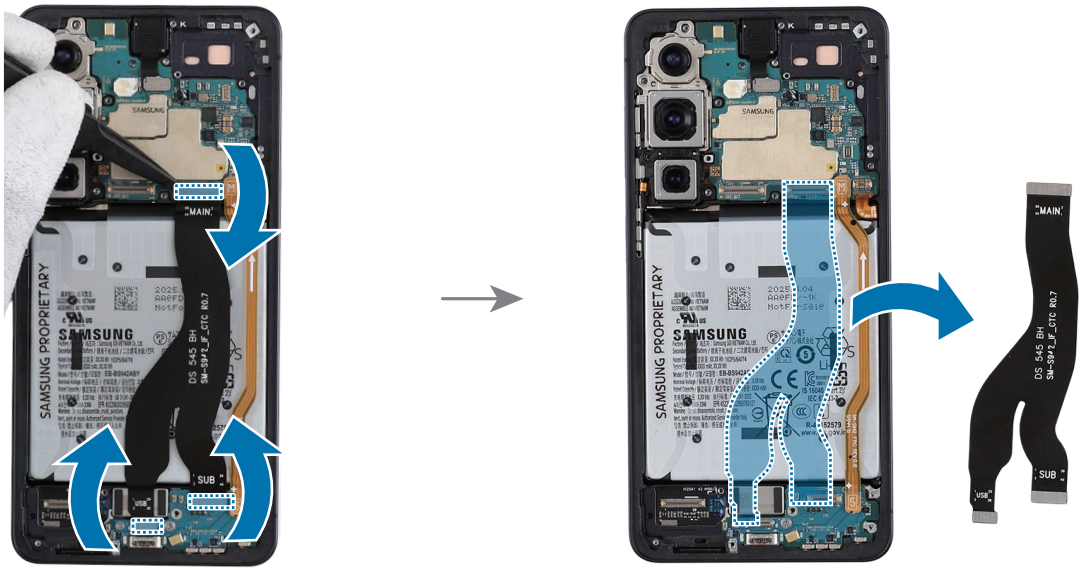


4 Using the tweezers, disconnect the 2 flex cable connectors and remove the flex cable completely.

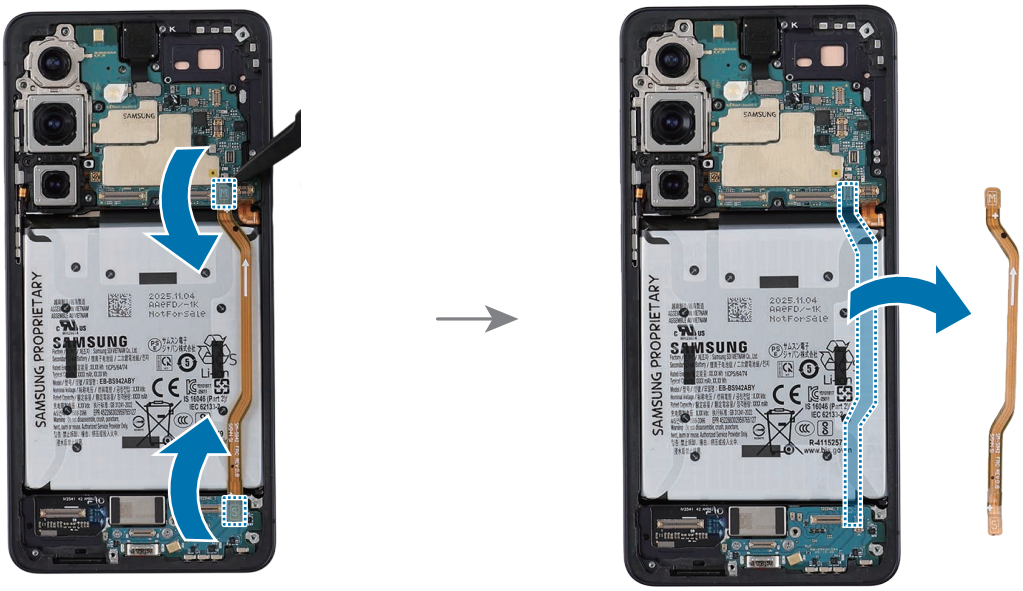
When removing the connectors, be careful not to damage the cable.



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



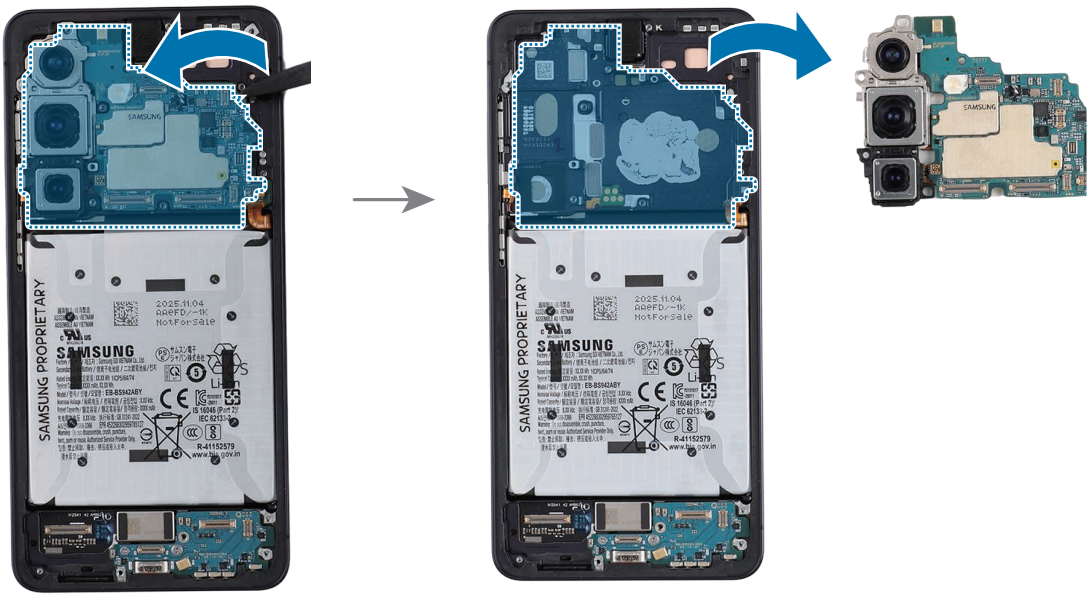
6 Using the tweezers, disconnect the 2 flex cable connectors and remove the flex cable completely.



7 Using the tweezers, disconnect the front camera connector 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 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.



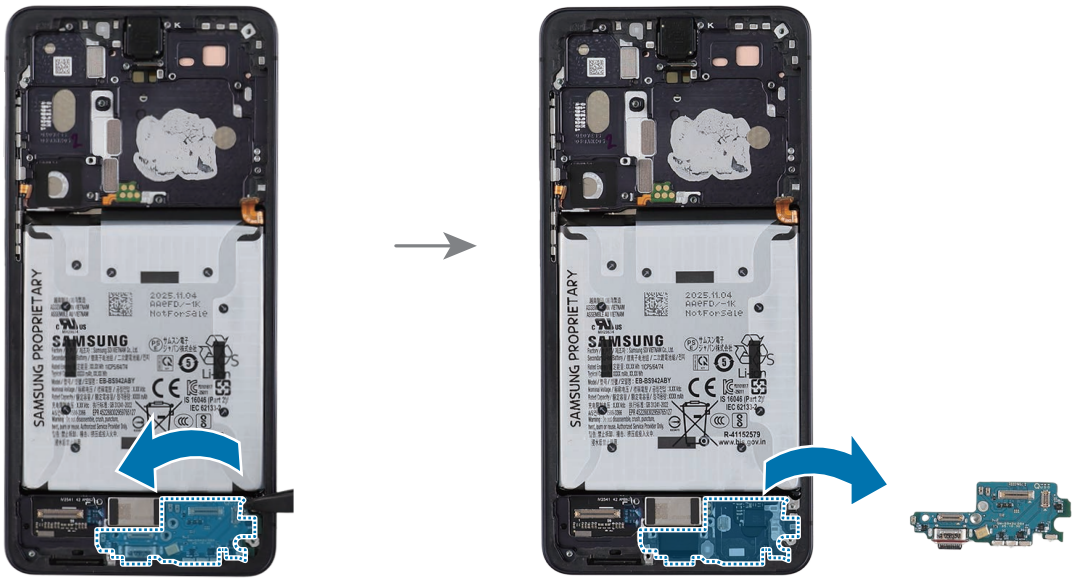
8 Check the 2 screws on the charging port and remove them using a cross-head screwdriver.

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.

9 Using the tweezers, lift up on the separator groove of the charging port module, and remove it carefully.

Be careful not to damage the battery.

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



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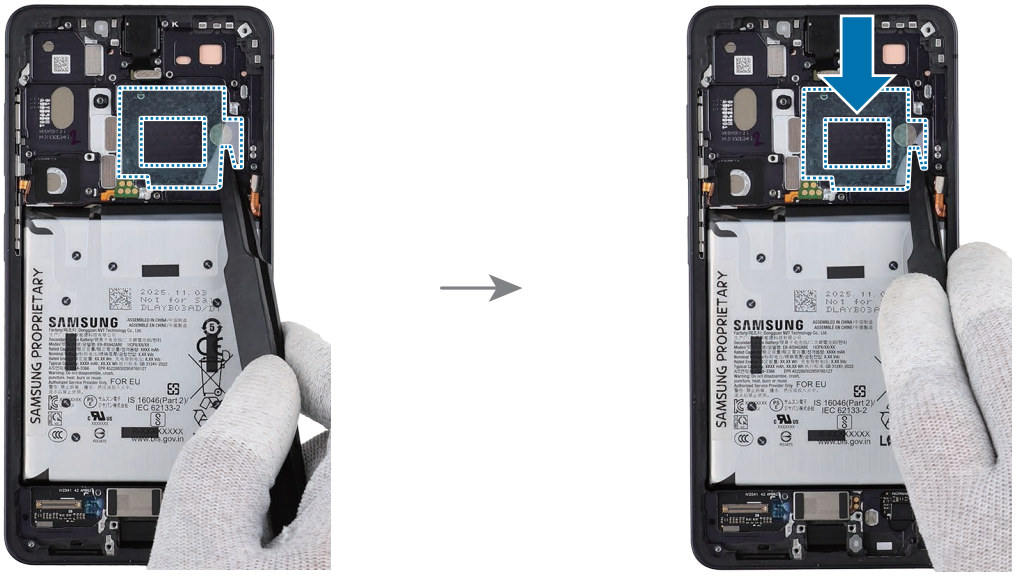
Reassembly

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.

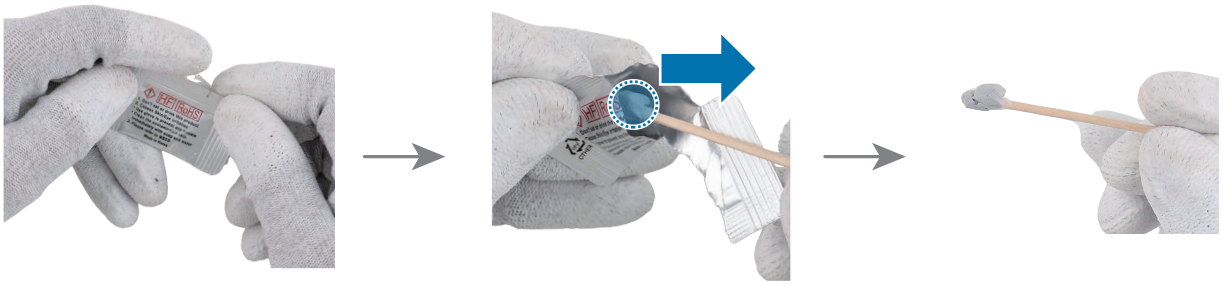
1 Align the liquid gel masking tape onto the metal frame and place it in the correct location. Then, gently press down the tape with the tweezers so that the tape can be attached well.

Be careful not to damage the near components.



2 Open the liquid gel package and take out the appropriate amount of gel with a cotton swab.

The actual liquid gel may be different from the image.



3 Apply the gel in the pierced centre area of the masking tape and spread evenly with a cotton swab.

- Before using the liquid gel, you must wear protective safety equipments such as glasses, gloves, and a mask for your safety.
- If the gel is in contact with the skin, wash it off with clean water and soap immediately.
- The gel is not allowed to be used for other purposes.

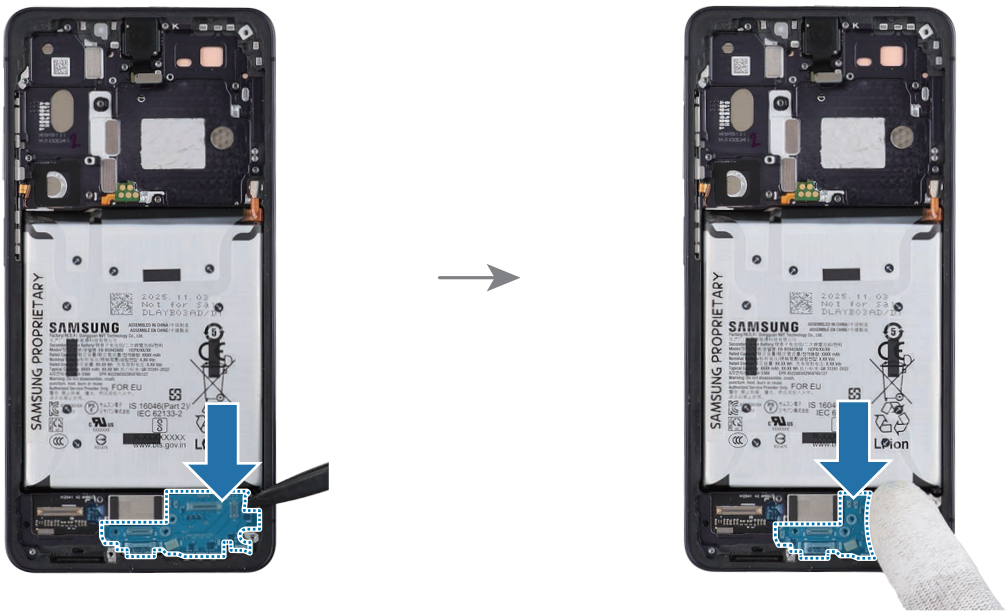
- Be careful not to apply the gel to near components.
- If the applied gel overflows, wipe it carefully with a clean and soft cloth.

4 Using the tweezers, remove the attached masking tape from the metal frame.

5 Using the tweezers, insert the charging port module to 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.

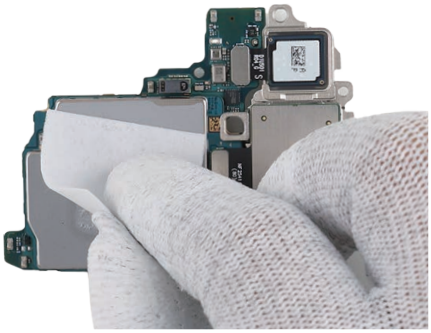


6 Check the screw 3554 (2 ea) at the 2 different points on the charging port and fasten them using a cross-head screwdriver.

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

7 Using the clean tissue or cloth, clearly wipe the existing liquid gel on the back of the main board.

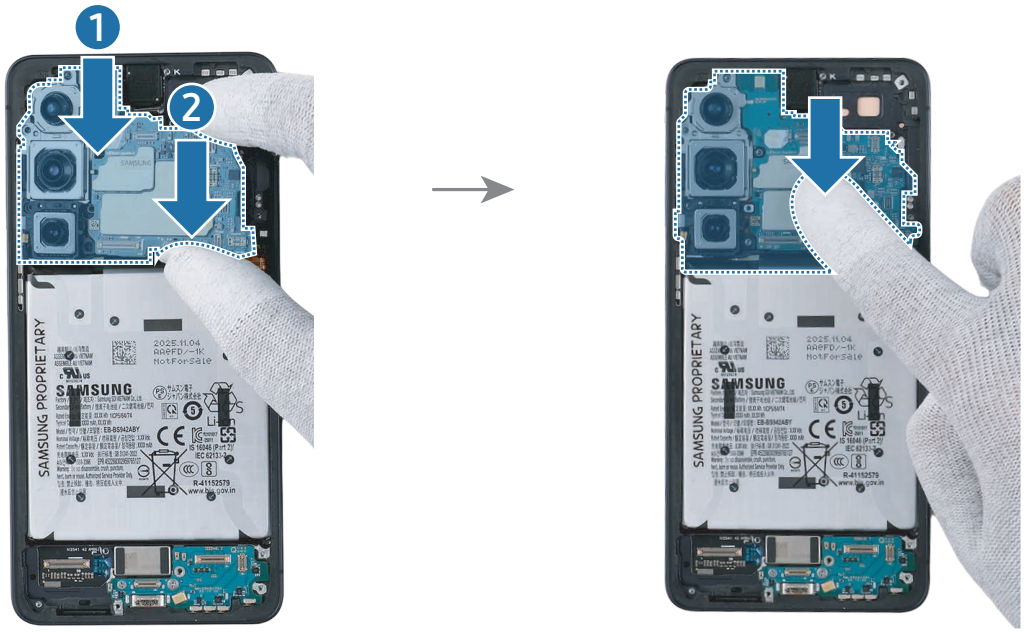
Be careful not to damage the main board.



8 Align the main board module onto the device frame. After attaching the upper part of the main board diagonally on the metal frame, assemble the lower part. Press down the main board evenly using your fingers so that it can be assembled well.

Be careful not to damage the battery.

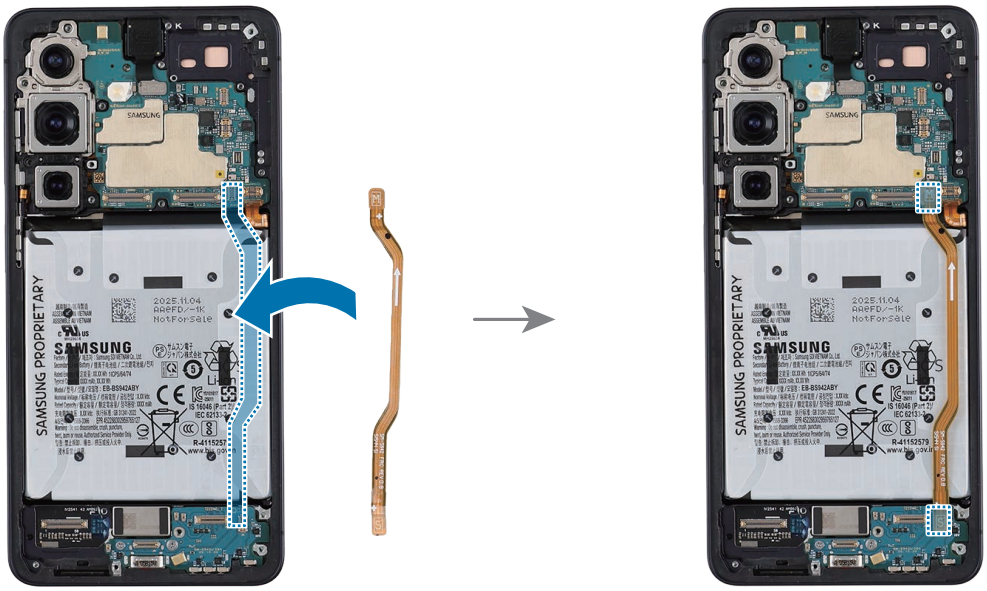
- Be careful not to damage the battery connector.
- The FPCB cables have to be positioned outside so as not to interfere when assembling the main board.



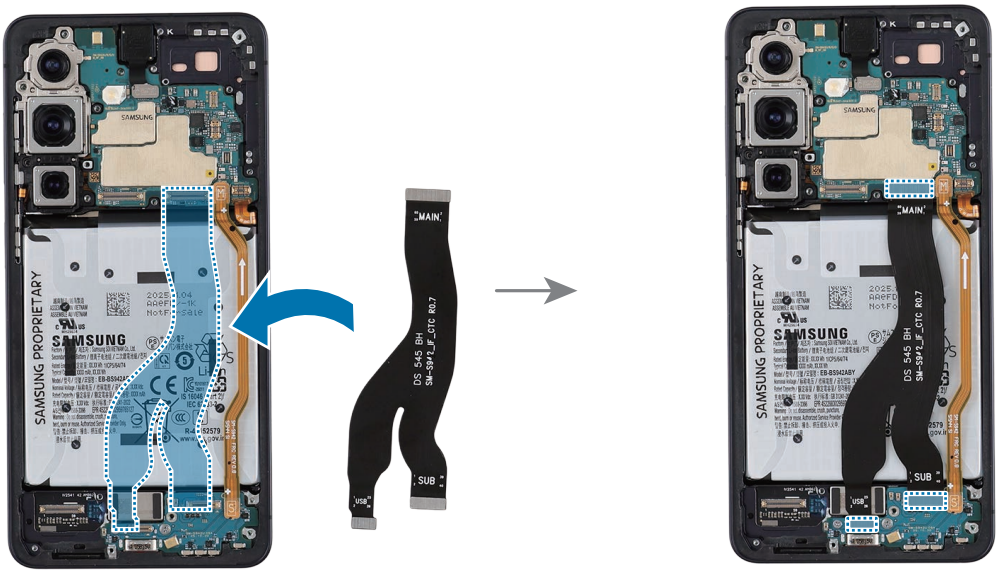
9 Connect the front camera connector to the main board.

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

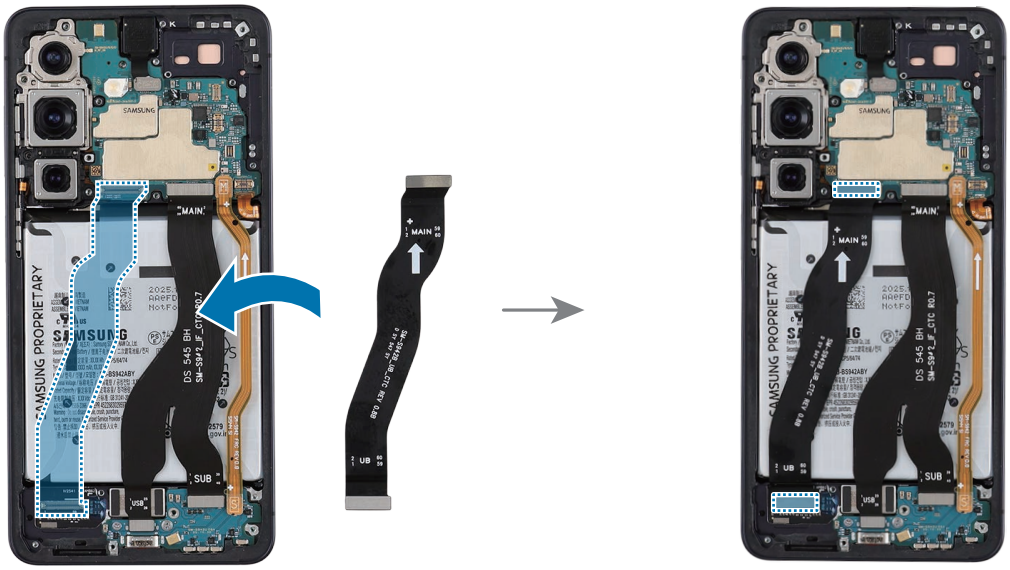
- Be careful not to damage the main board and near components.
- When connecting the connectors, be careful not to damage the cable.



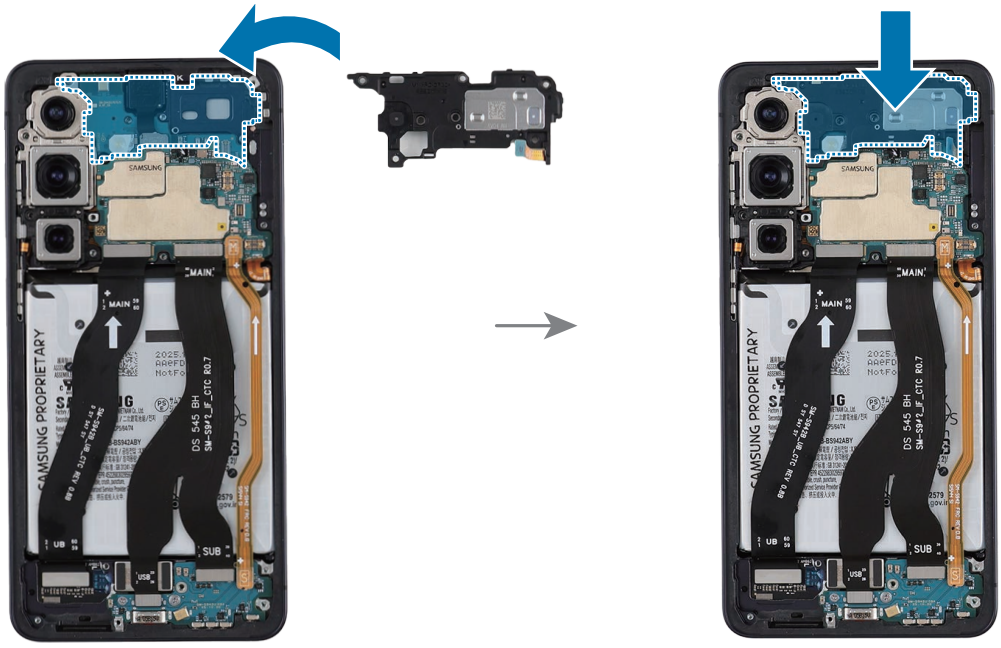
11 Place the flex cable to the device frame and connect the 3 flex cable connectors carefully.



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



13 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.



14 Connect the top FRC connector to the main board.

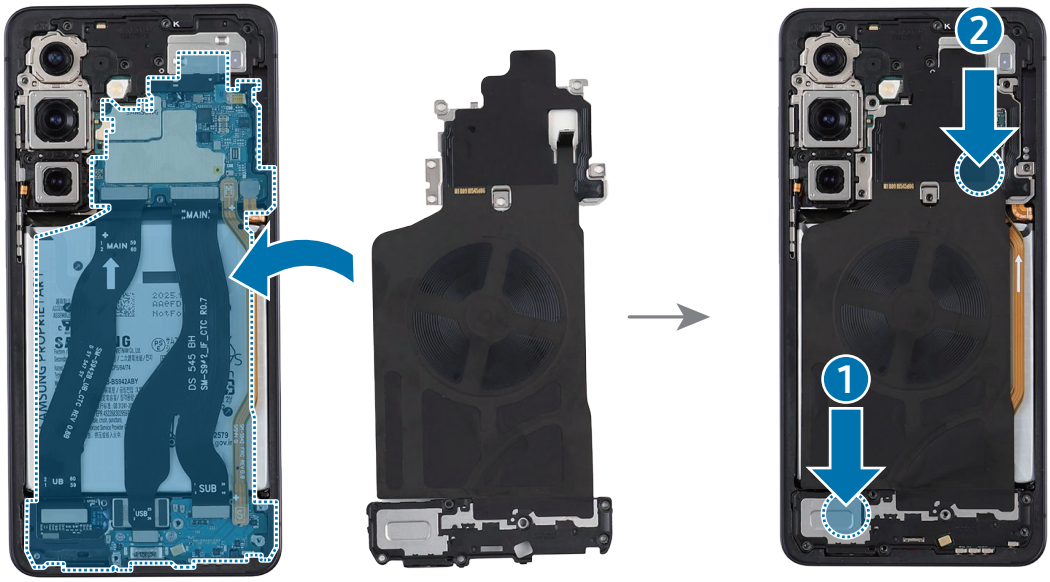
15 Connect the battery connector to the main board.

Be careful not to damage the battery.

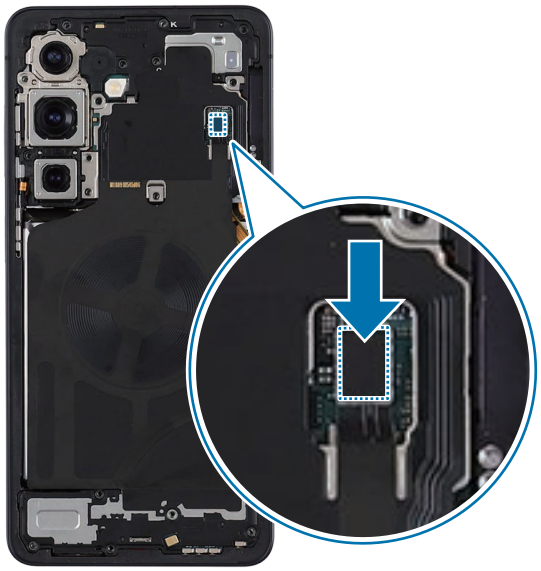
Be careful not to damage the battery connector and near components.

16 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.

When attaching the wireless charging module, make sure that it fits to the device's form.



17 Connect the NFC antenna connector.



18 Check the screw 3614 (19 ea) at the 19 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.

19 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.

Screen

The screen should be replaced only by the specialised technicians with the knowledge and experience to repair electronic devices.

Disassembly

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

1 Check for the disassembly steps of the Screen Module and completely set the device to the screen module state.

2 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.)

3 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.

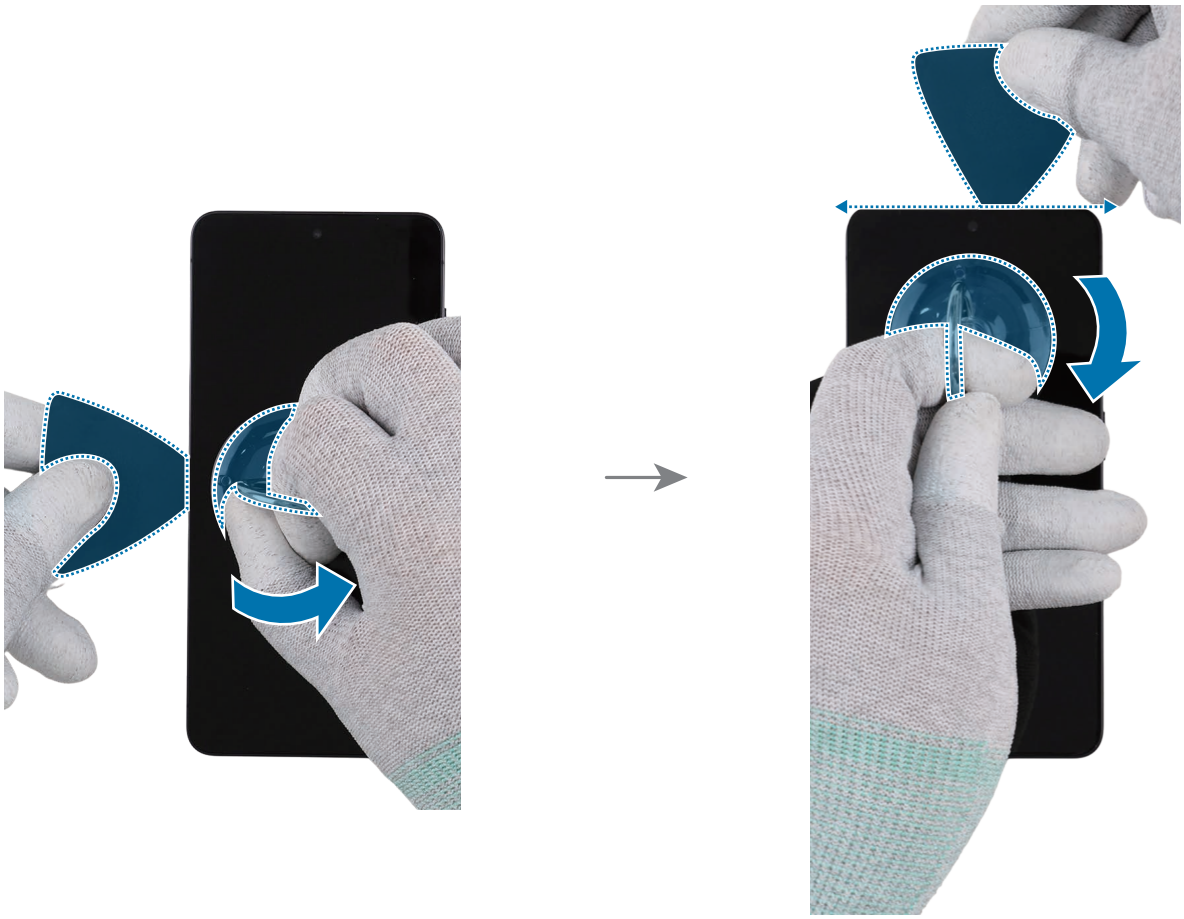
Be careful that the suction cup does not adhere to the area where the tape or sticker is attached.

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.

4 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, top, right 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 larger area of the opening pick be inserted.
- If you have trouble creating a gap, heat the microwaveable heating bag additionally, and apply it on the screen to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.



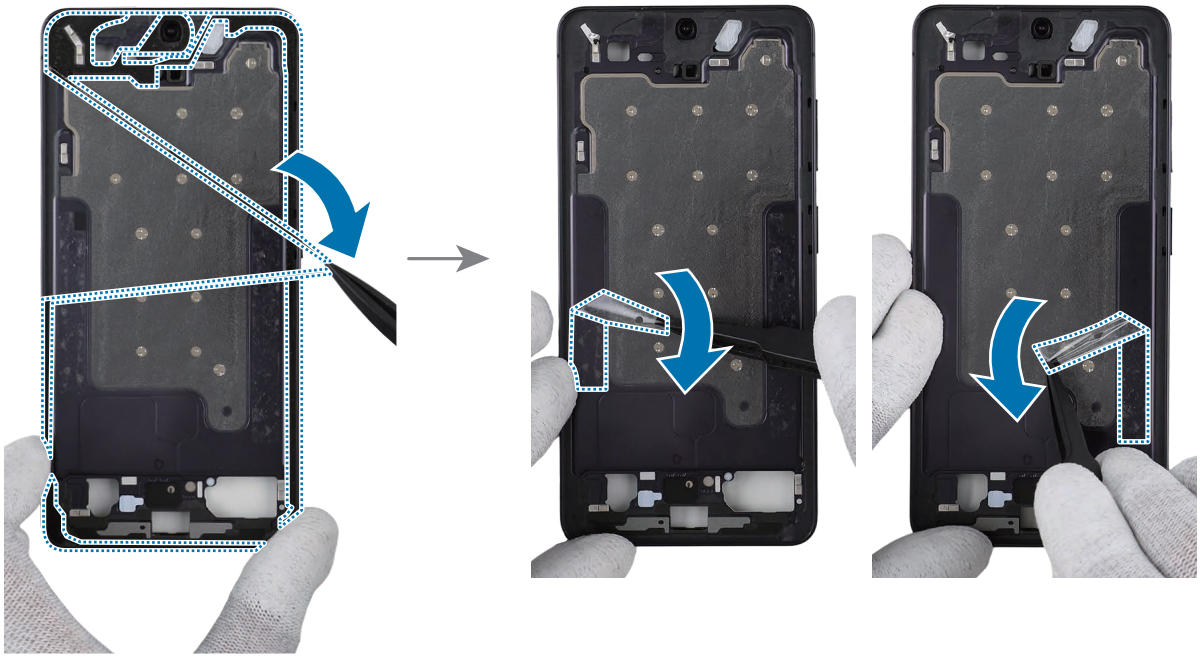
Reassembly

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

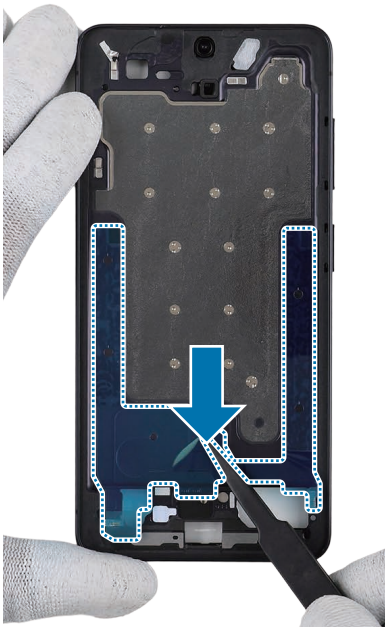
Before attaching the screen, make absolutely sure that there are no screws, miscellaneous parts, or other foreign objects on the inside of the device (among the battery, PBA, etc.).

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

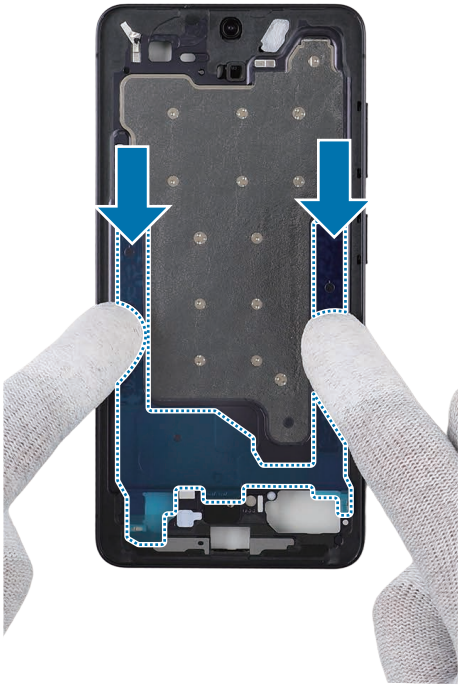
- Make sure to remove any residual tapes attached to the metal frame before reassembling the new screen.
- Be careful not to damage the device and near components.



2 Remove the transparent film of the new screen middle adhesive tape. Using the tweezers, align the tape precisely on the metal frame and attach it.



3 Using your fingers, gently press around the tape to ensure a secure fit.

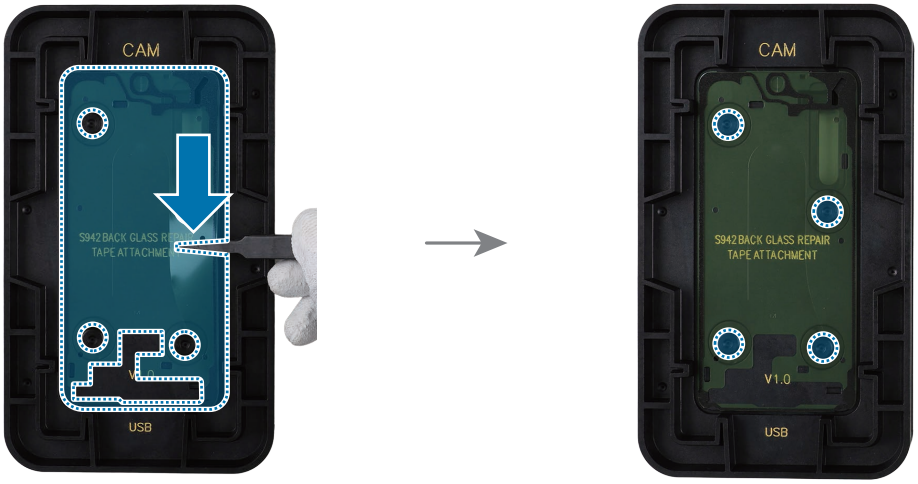


4 Now you can attach the new screen side adhesive tape using the bottom press tray. Remove the bottom press tray and guide pins from the rental tool kit packaging.

- 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.

5 Place the bottom press tray with the tape attachment surface facing up and insert the guide pins into the holes of bottom tray.

6 Remove the transparent film of the new screen side adhesive tape. Using the tweezers or your fingers, align the adhesive tape holes precisely to the guide pins of the bottom tray and place the tape on the tray.



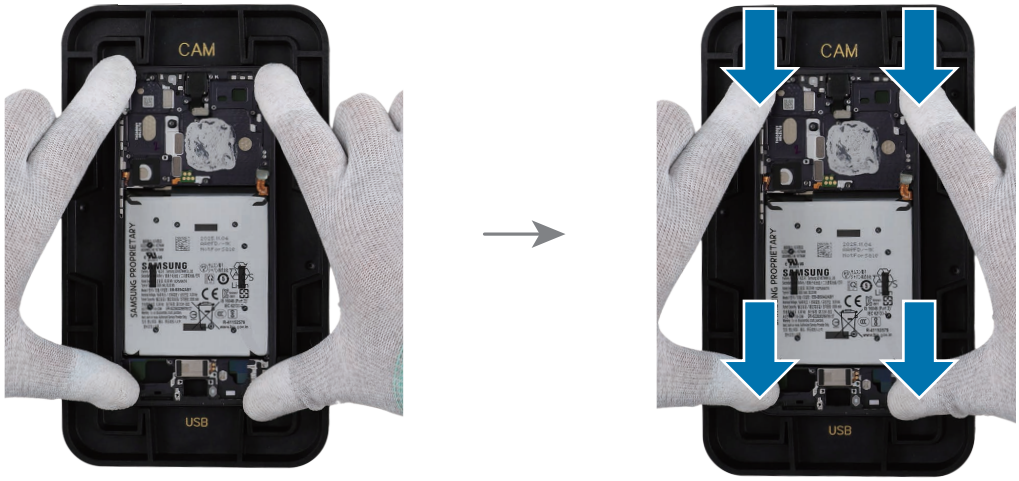
7 Press the areas around the holes of the tape with your fingers so that the tape can fit perfectly into the tray.

8 Carefully place the device horizontally on the tray with the screen facing down.

Be careful that the tape may be attached incorrectly if you tilt the device and place it in the tray.

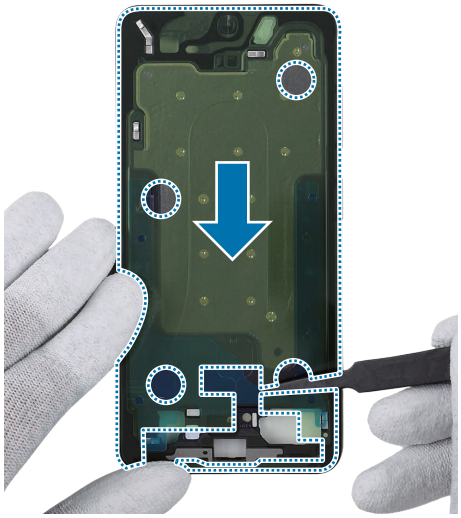
9 Place your fingers on each corner of the device and press down throughout the device for about 3 seconds so that the tape can be attached well.

The guide pins should be pressed at the same time.



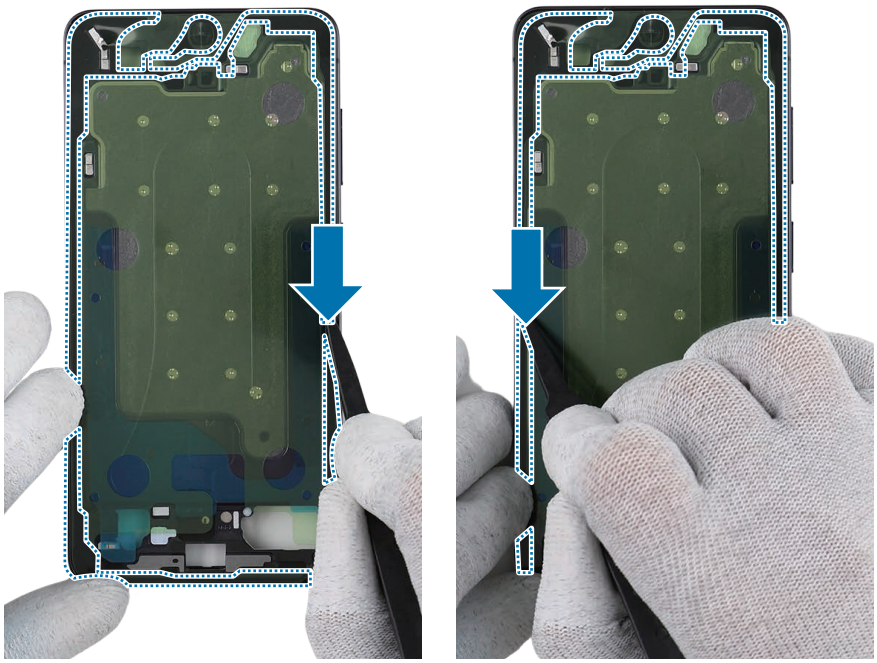
10 Remove the device carefully from the tray.

Availability of rental service may vary depending on the country and is currently available only in limited countries. If the rental tool kit packaging is not available, remove the transparent film of the new screen side adhesive tape. Using the tweezers, align the adhesive tape precisely on the metal frame and attach it.

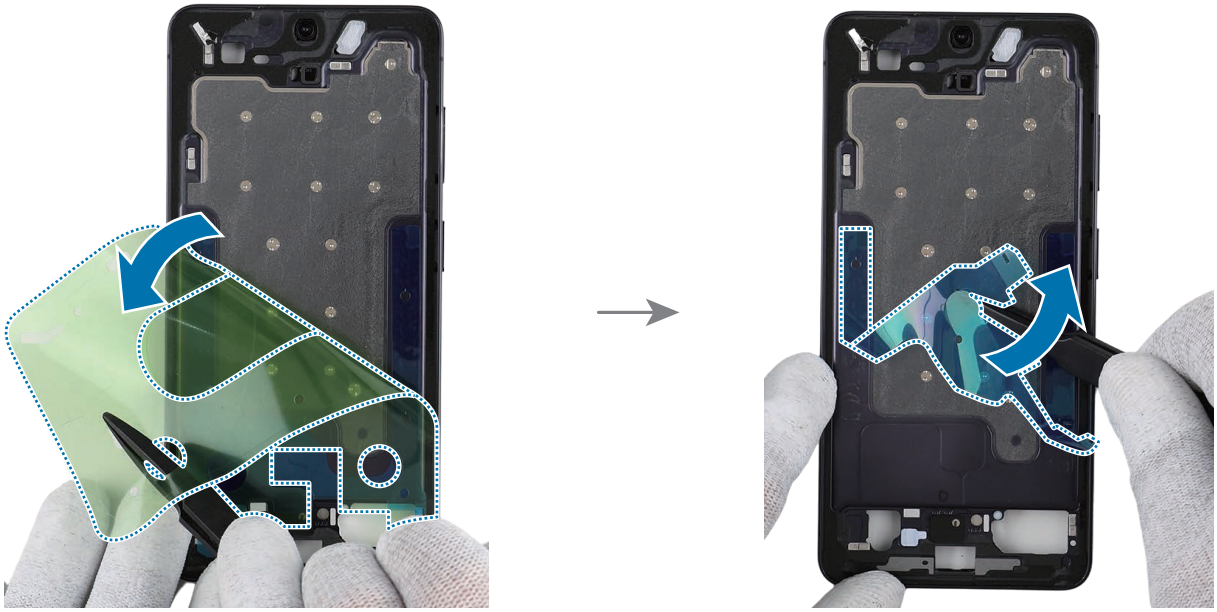


11 Using the tweezers and your fingers, gently press around the edges of the tape to ensure a secure fit.

- Make sure the tape is attached correctly.
- Be careful not to damage the front camera.

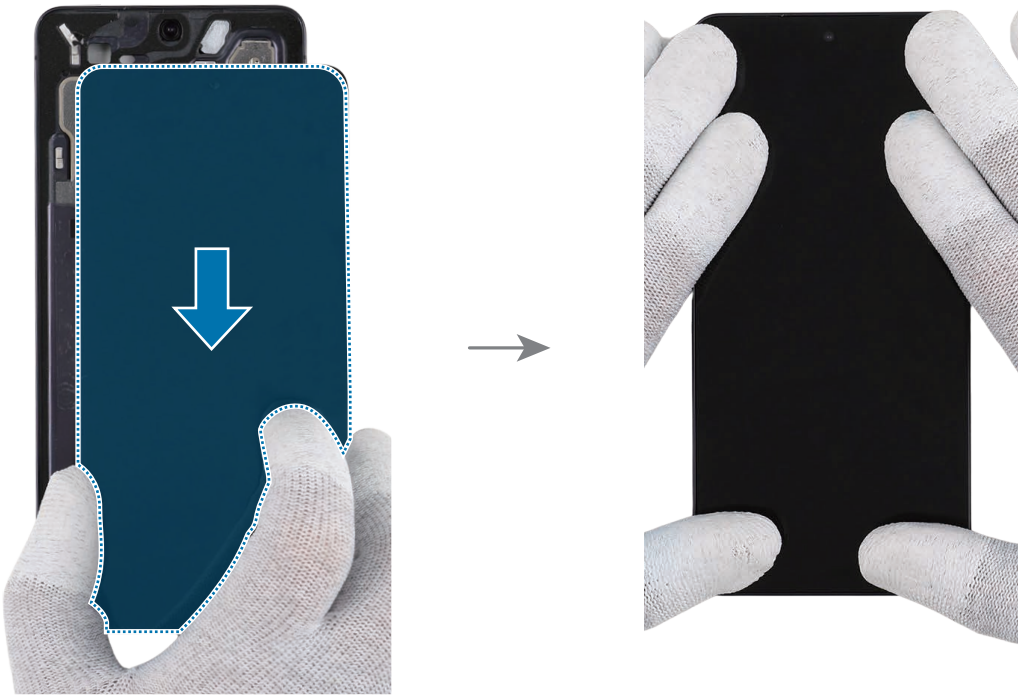


12 Using the tweezers and your fingers, remove all release films of the attached adhesive tapes one by one.



13 Attach the screen and check the gap between the screen and 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.



14 If you can rent a toolkit for self-repair service, check for the steps of the Screen Press. You can further press the fully assembled screen using the appropriate tool.

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

15 Check for the reassembly steps of the Screen Module and completely reassemble the all disassembled parts including the back cover.

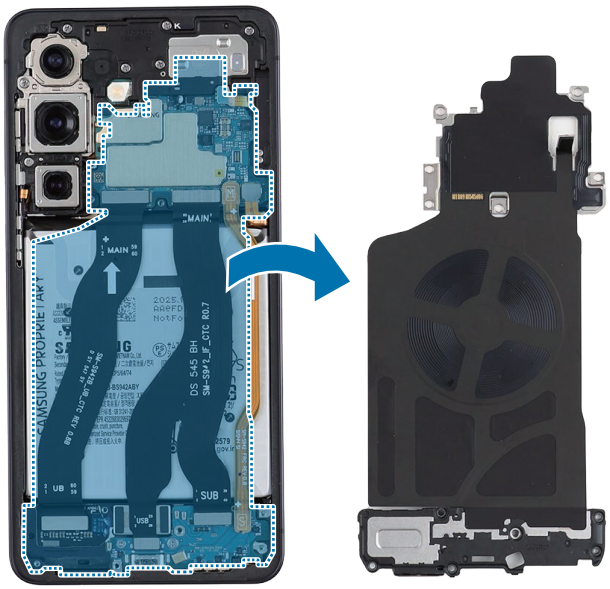
Battery

- The battery should be replaced only by the specialised technicians with the knowledge and experience to repair electronic devices.
- The separated battery may be damaged. Do not use it again.

Disassembly

Remove the Back Cover first before you begin.

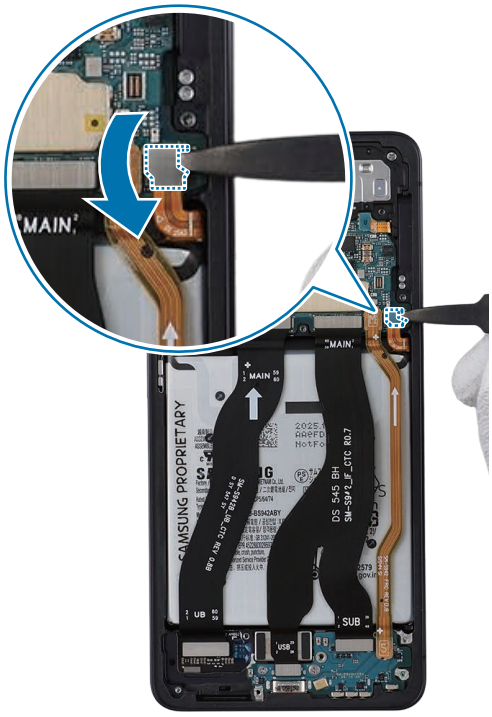
1 Check for the disassembly steps of the Bottom Speaker and completely separate the wireless charging module and speaker module.

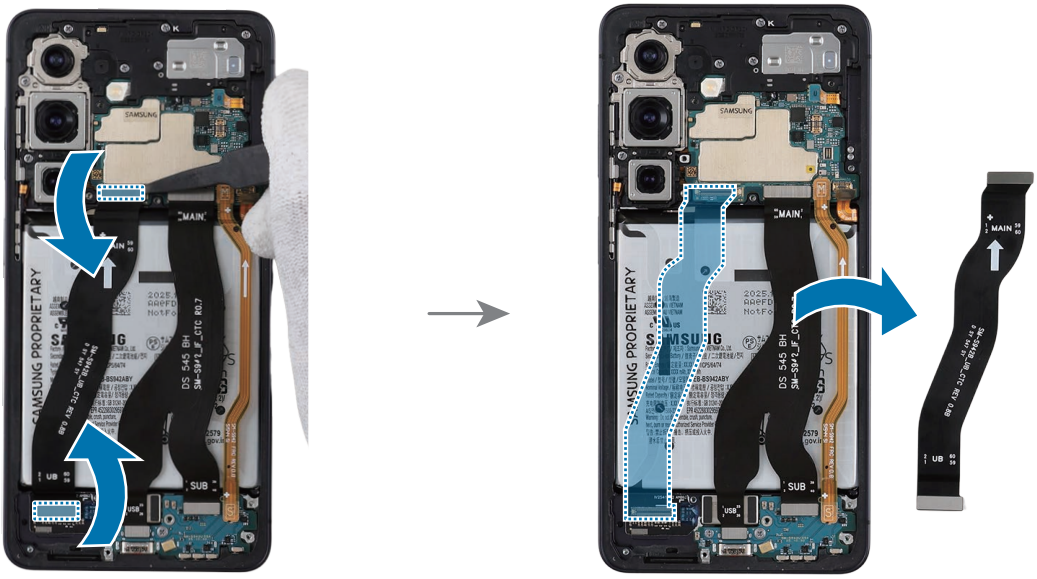


2 Using the tweezers, disconnect the battery connector first from the main board. Using the tweezers, disconnect the 2 flex cable connectors and remove the flex cable completely.

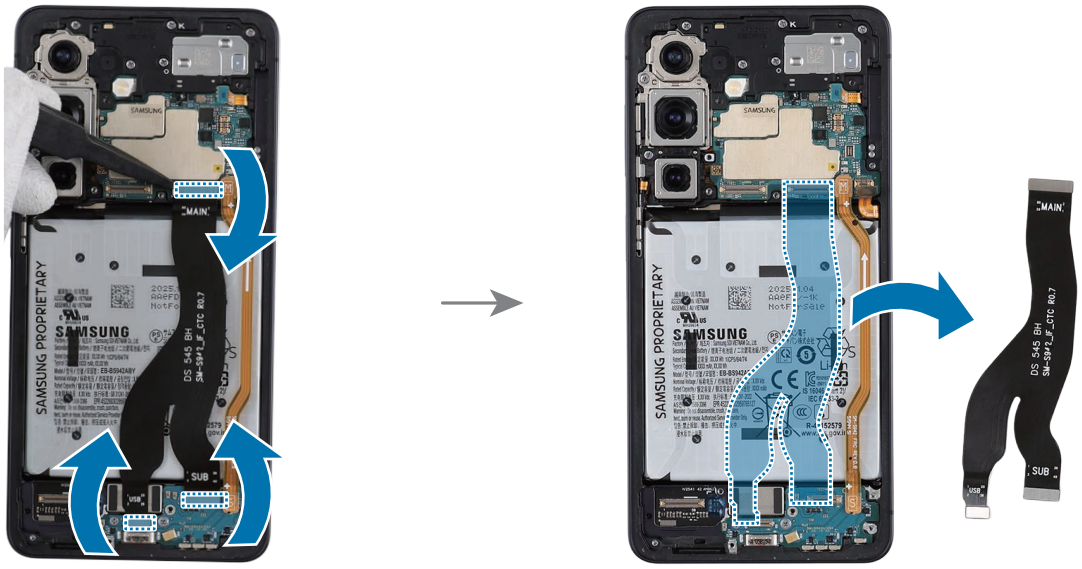
- Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.

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

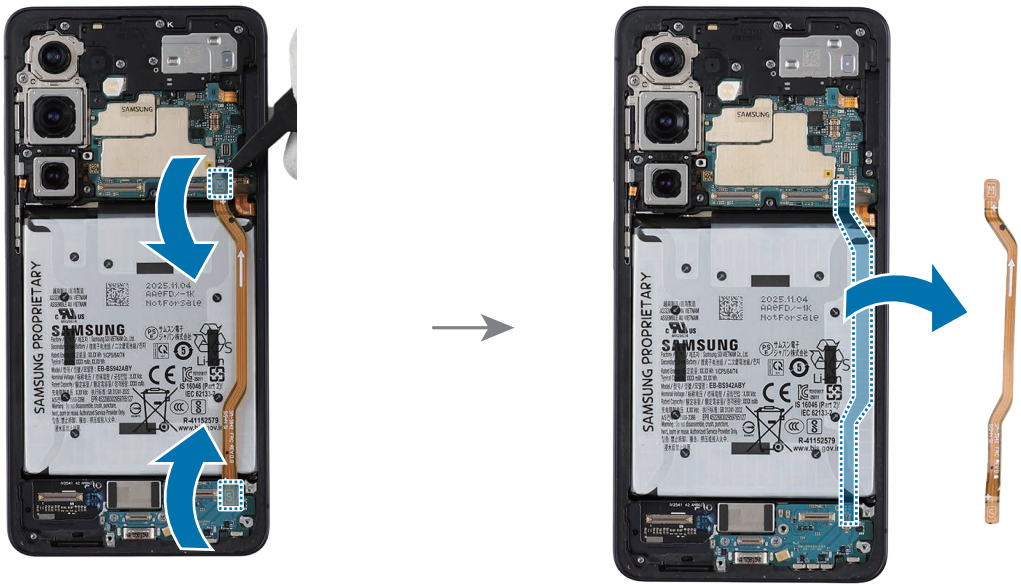




3 Using the tweezers, disconnect the 3 flex cable connectors and remove the flex cable completely.



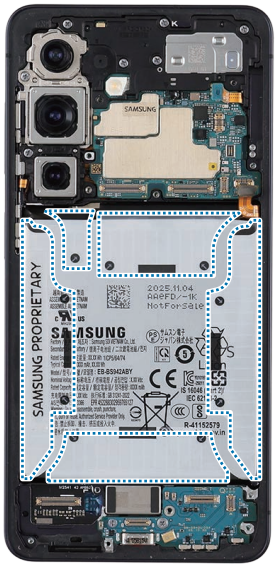
4 Using the tweezers, disconnect the 2 flex cable connectors and remove the flex cable completely.

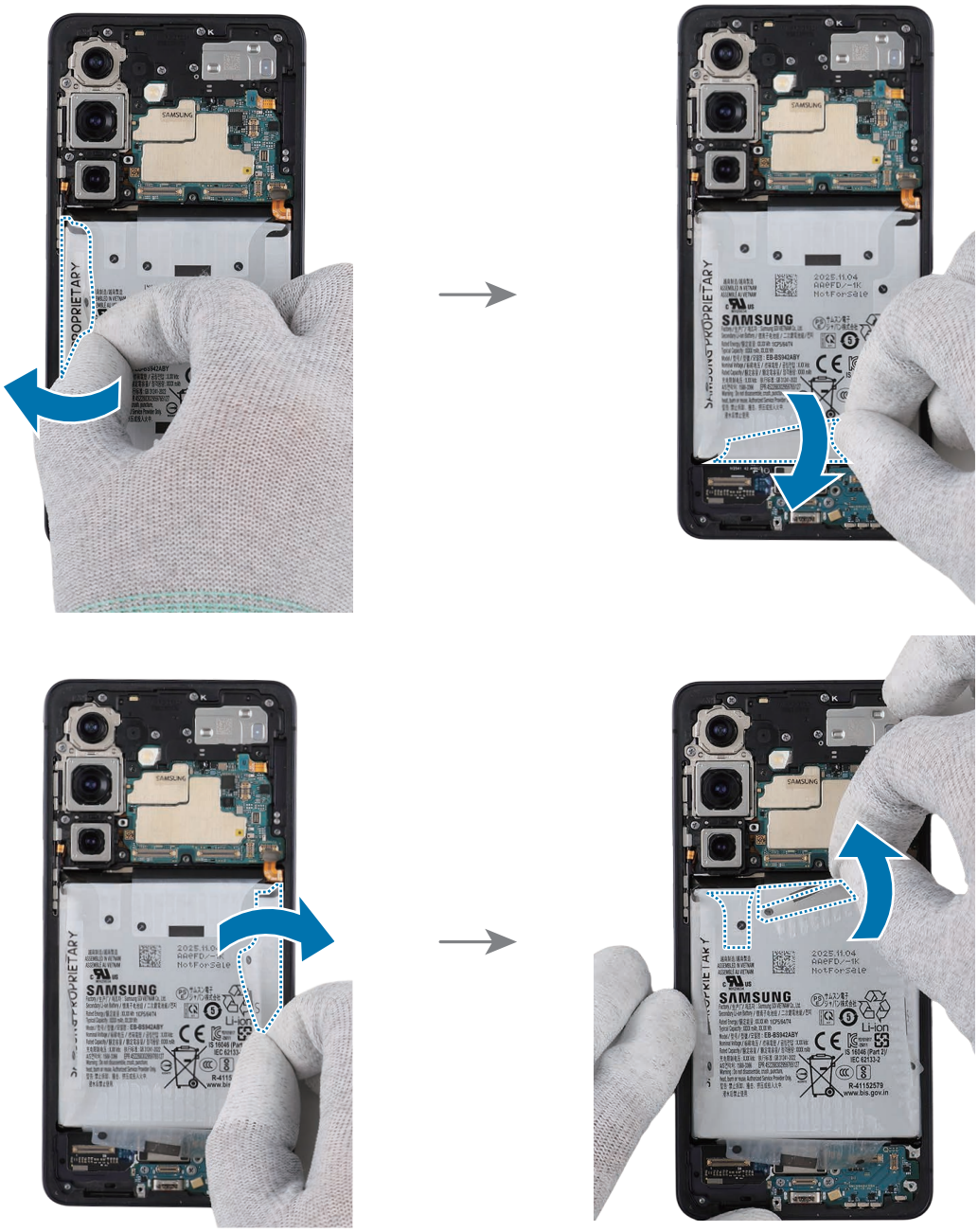


5 Using your fingers, grab the 4 tape handles attached to the sides of the battery and separate them carefully from the battery. Then, grab the battery with your fingers and pull it up carefully. Slowly lift up the battery from the device and remove it completely.

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

As the adhesive securing the battery is very strong, remove it slowly and carefully.

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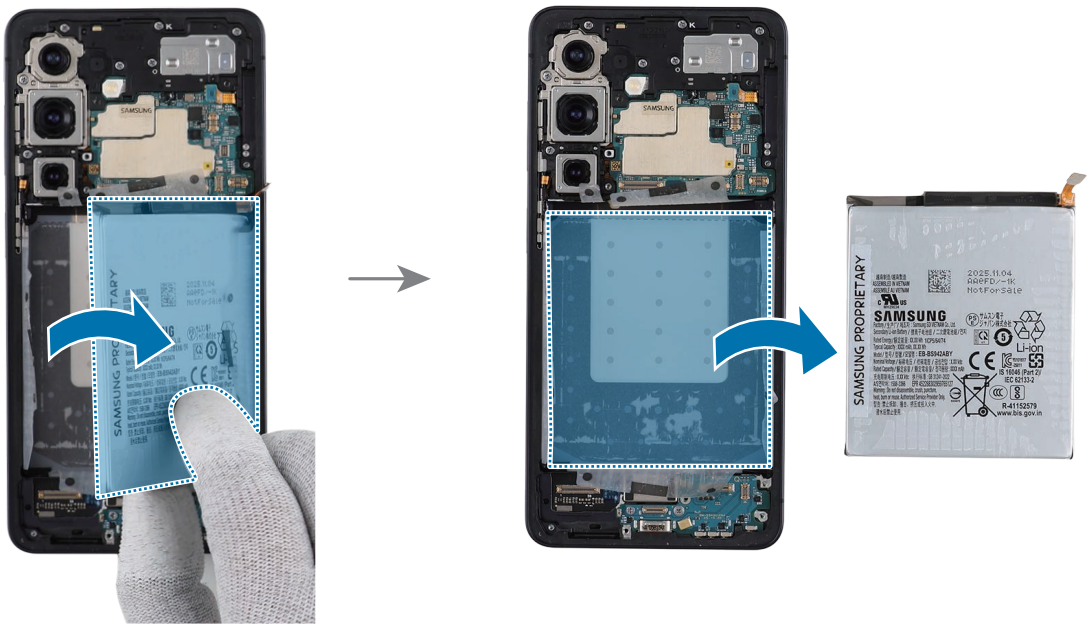
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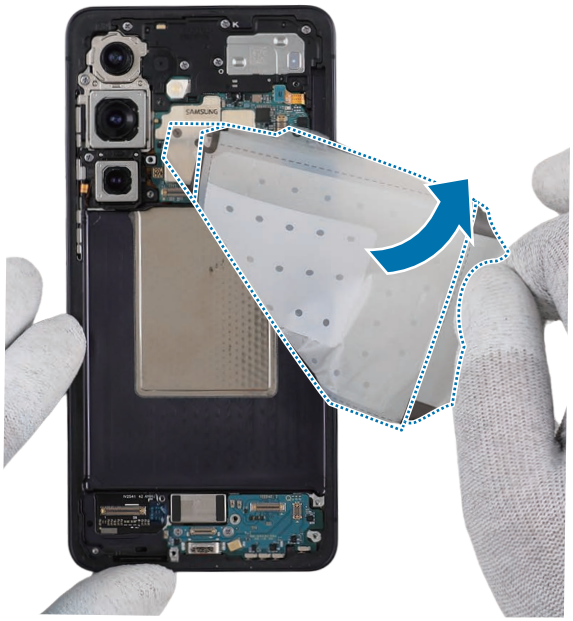
Reassembly

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.

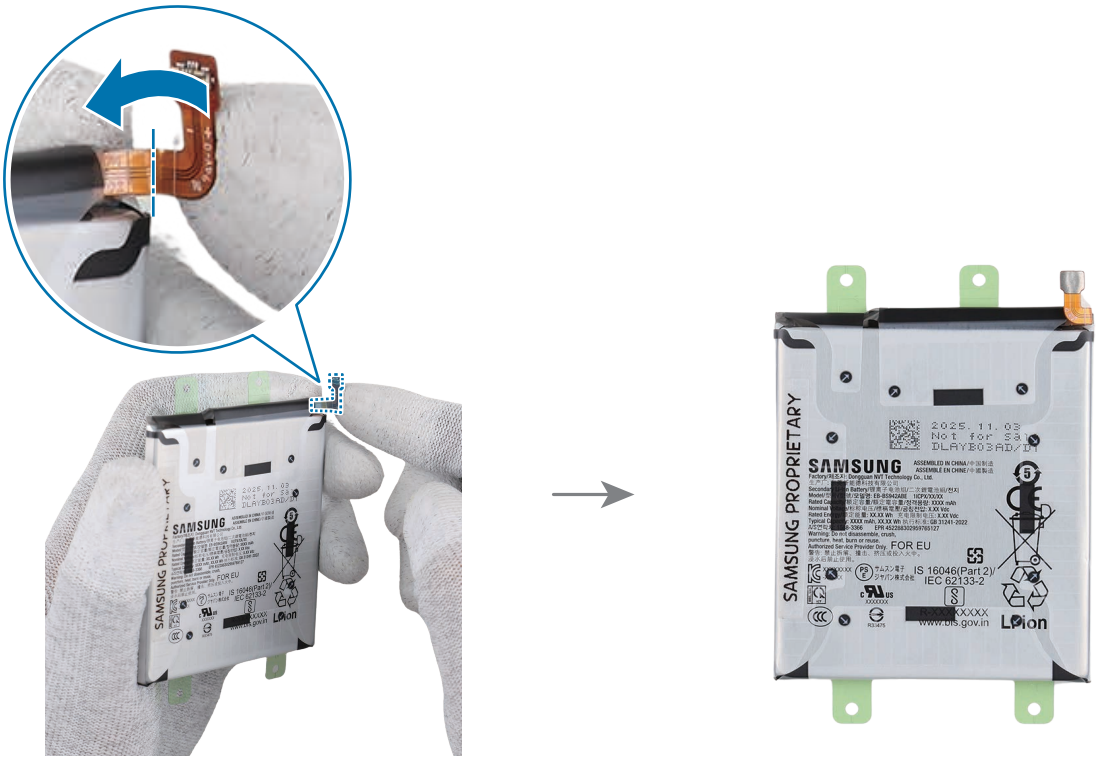
1 Using the tweezers and your fingers, remove all remaining adhesive tapes on the metal frame.

- 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.



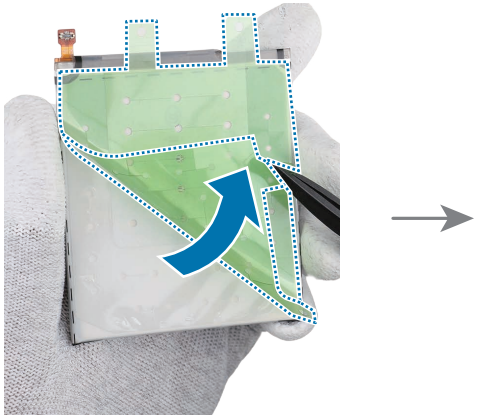
2 Fold the battery FPCB cable completely based on the centre of the 2 lines.

Be careful not to damage the cable.



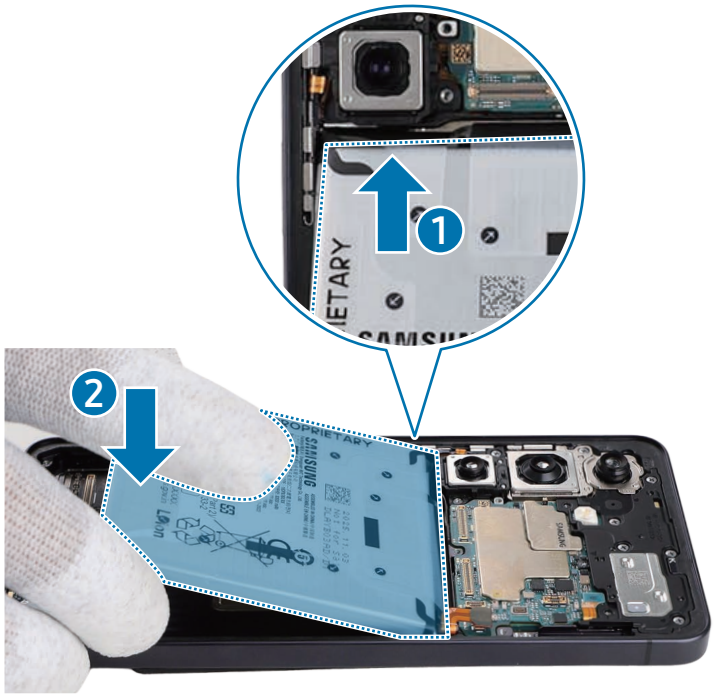
3 Using the tweezers or your fingers, carefully remove the release film from the new battery.

Be careful not to damage the battery.



4 With the battery connector on the right, 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.

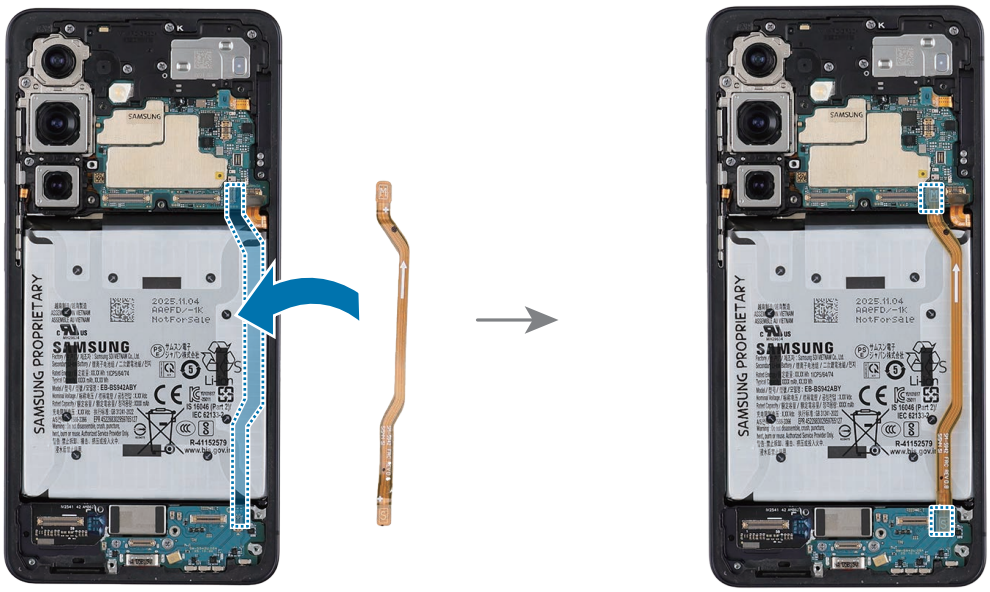
The FPCB cables and connectors have to be positioned outside so as not to interfere when assembling the battery.



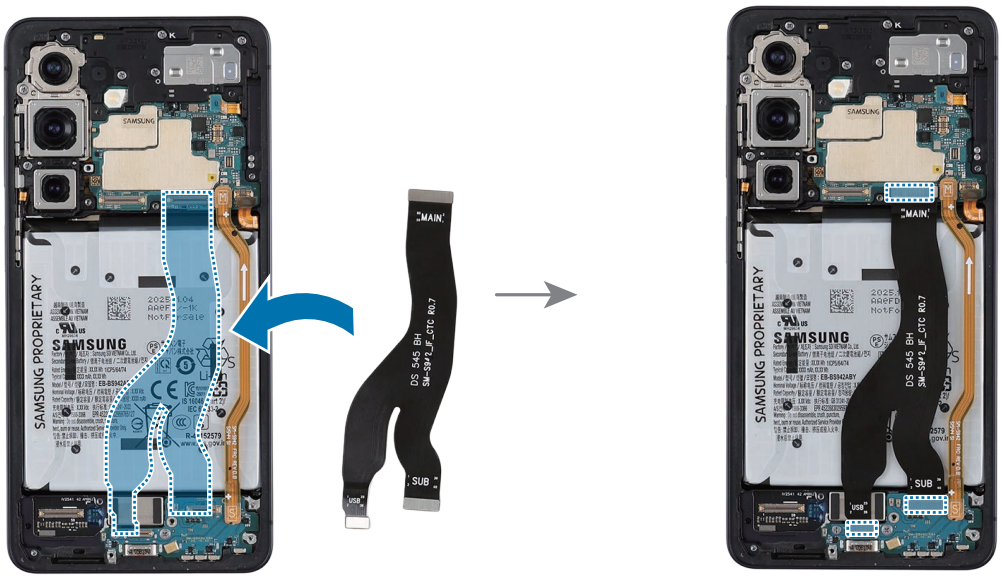
5 Press the battery with your fingers softly so that the battery can be attached well.

6 Check for the steps of the Battery Press. You can further press the fully assembled battery using the appropriate tool.

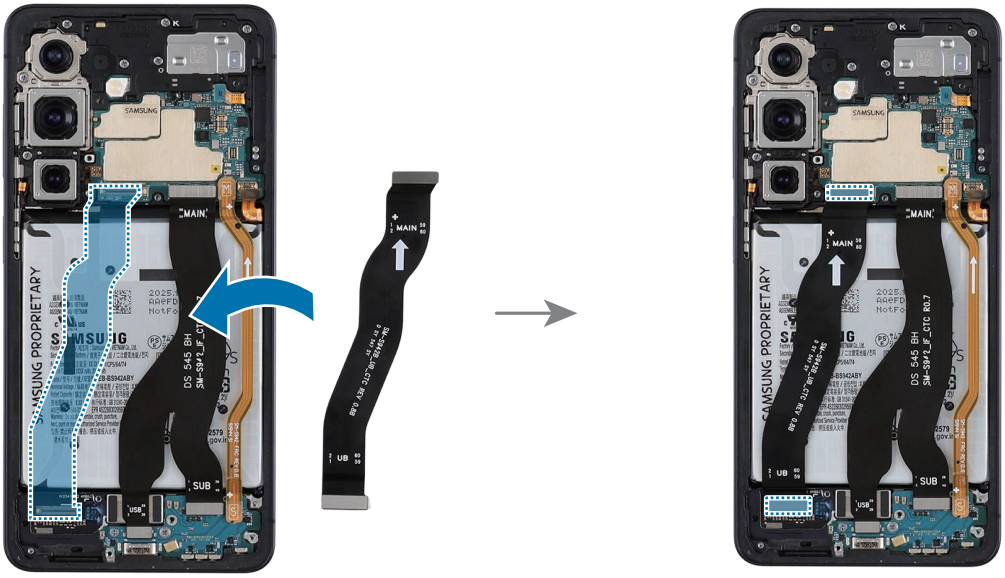
7 Place the flex cable to the device frame and connect the 2 flex cable connectors carefully.



8 Place the flex cable to the device frame and connect the 3 flex cable connectors carefully.



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



10 Connect the battery connector to the main board.

Be careful not to damage the battery.

Be careful not to damage the battery connector.

11 Check for the reassembly steps of the Bottom Speaker and completely reassemble the wireless charging module and speaker module.

12 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.

Press

- The **Press** step is a process for responding to Repair Regulations implemented in some regions and may not be an essential process in other areas.
- Availability of bundle tool may vary depending on the country and is currently available only in limited countries.
- The press toolkit is only available to use by the rental of tool kit that contains a complete set of the tools for self repair service. Availability of rental service for this toolkit may vary depending on the country and is currently available only in limited countries.
- Some images of the press fixture may show a different Galaxy model, but the procedure is the same.

Before pressing,

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

Back Cover Press

Appropriate tool for pressing depends on the parts repaired.

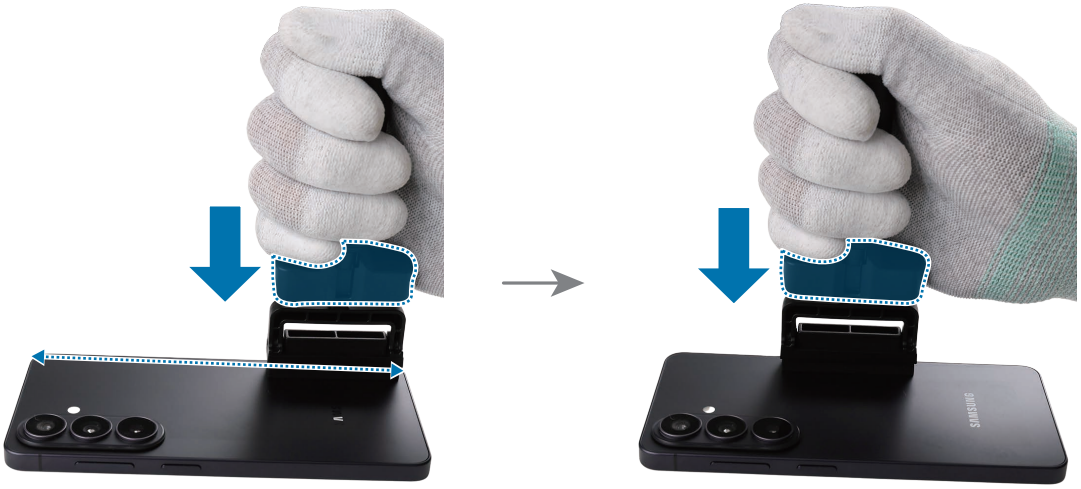
Using the stamp

Keep your hands out of the stamp.

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

When repairing only a single back cover, the press stamp can be bundled with the ordered parts.

1 With the stamp's spring pressed, press the all edges of the back cover with the press stamp for 5 seconds each. According to the stamp size, repeat this without missing at all edges of the back cover except for the camera part so that the back cover is pressed well.



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2 With the stamp's spring pressed, press the outer edges of the camera with a press stamp for 5 seconds each. Carefully press the edge around the camera using the edge of the stamp.

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

3 Press down the outer edges of the camera softly using your fingers so that the back cover can be attached well.

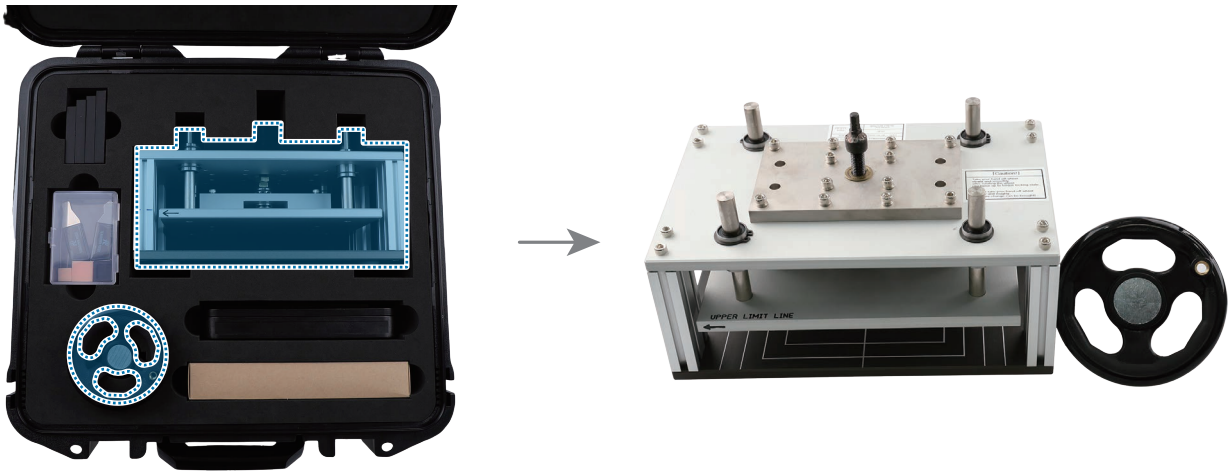
Using the toolkit

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

1 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.

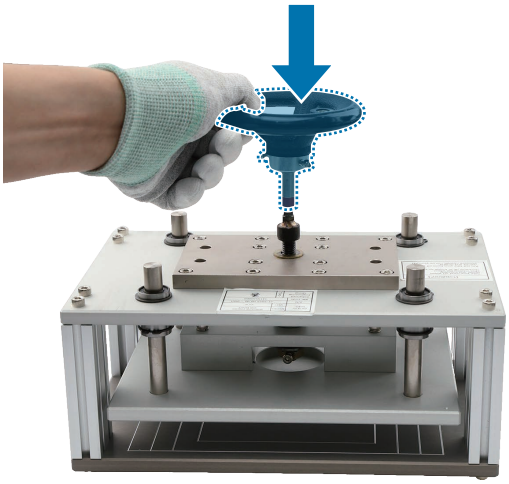
Keep your hands out of the press fixture to avoid mechanical pinching and injury.

- 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.



2 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.



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

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

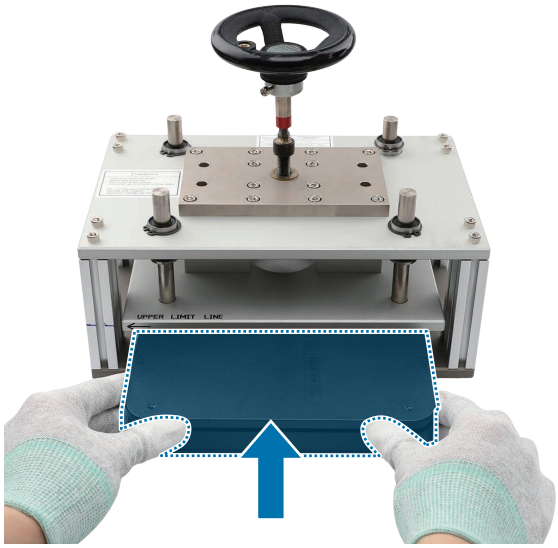
Be sure to remove the guide pins before proceeding. To prevent any potential issues, ensure that the guide pins are fully removed prior to pressing.

You can choose the one side of the bottom press tray depending on the back cover, screen, or battery.

5 Insert the top rubber pad 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.

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

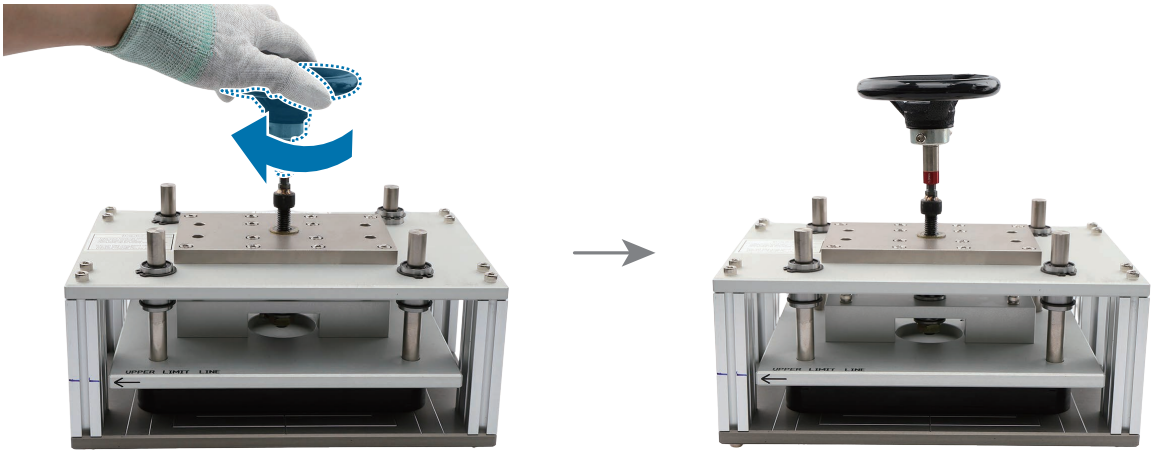
7 Position the entire back cover press tray with the device horizontally in the centre of the press fixture.



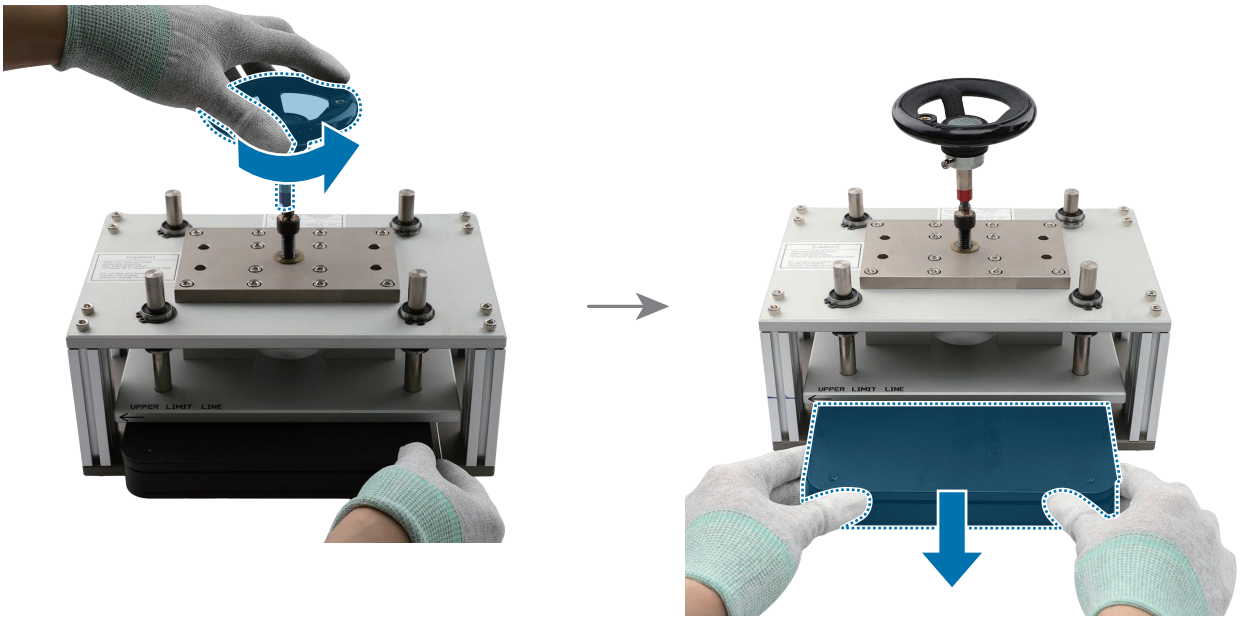
8 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 1 minute.

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.



9 When the press is completed after1 minute, rotate the torque limit handle to the anticlockwise and remove the tray from the press fixture.



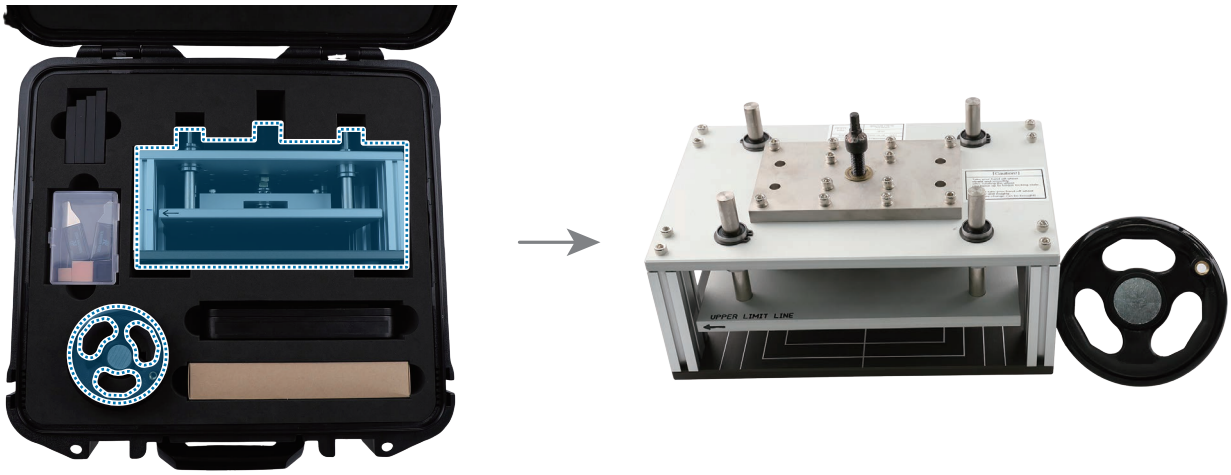
10 Remove the device carefully from the tray.

Screen Press

1 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.

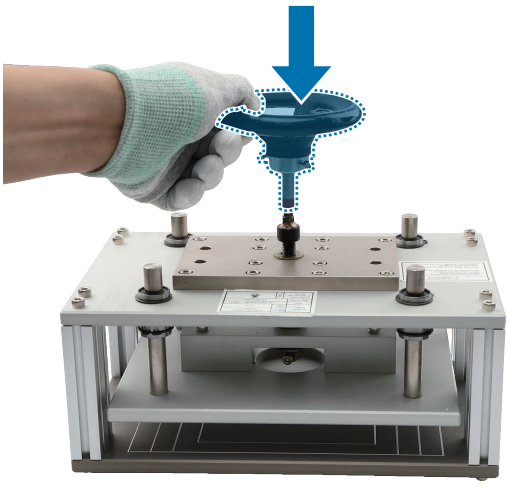
Keep your hands out of the press fixture to avoid mechanical pinching and injury.

- 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.



2 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.

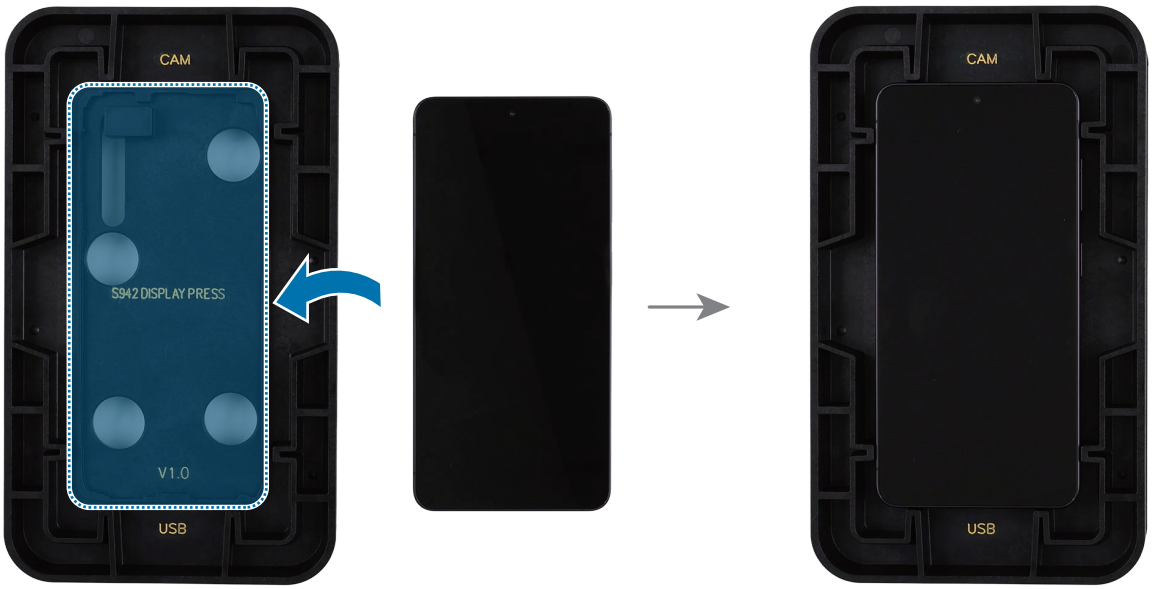


3 Remove the bottom press tray, top press tray, and top rubber pad for the screen from the rental tool kit packaging.

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

Be sure to remove the guide pins before proceeding. To prevent any potential issues, ensure that the guide pins are fully removed prior to pressing.

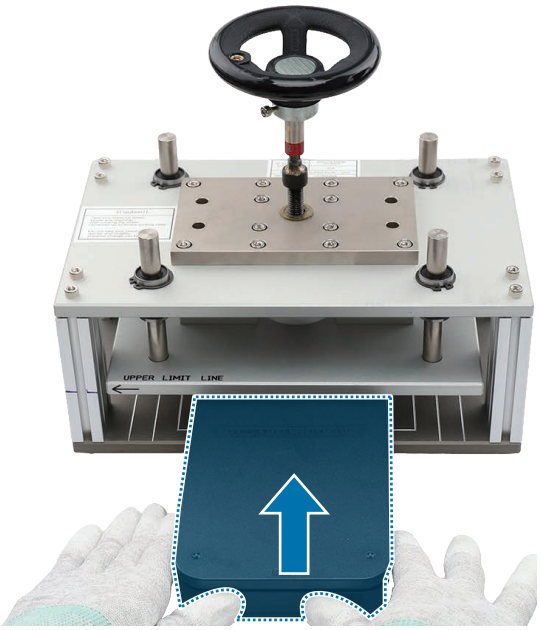
You can choose the one side of the bottom press tray depending on the back cover, screen, or battery.



5 Insert the top rubber pad 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.

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

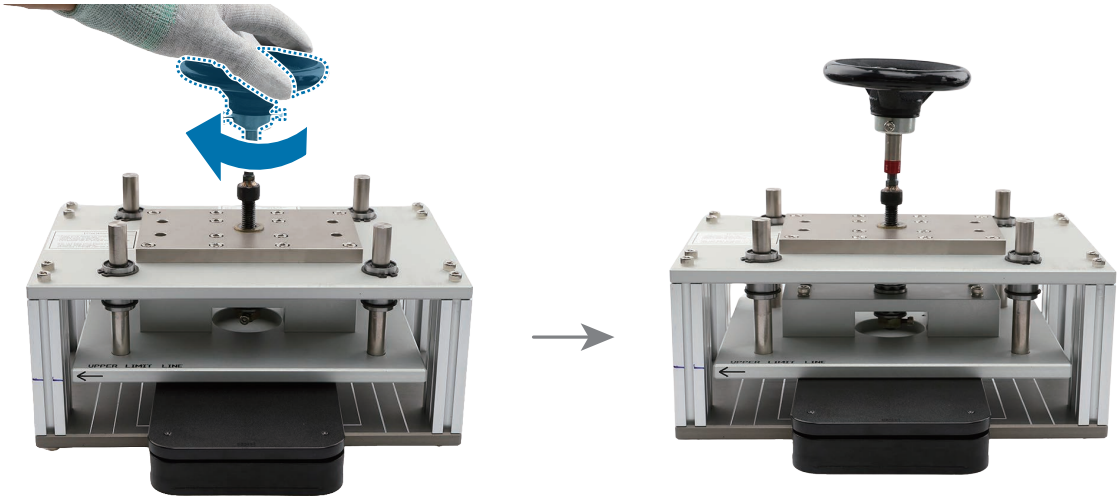
7 Position the top 2/3 of the screen press tray with the device lengthwise in the centre of the press fixture.



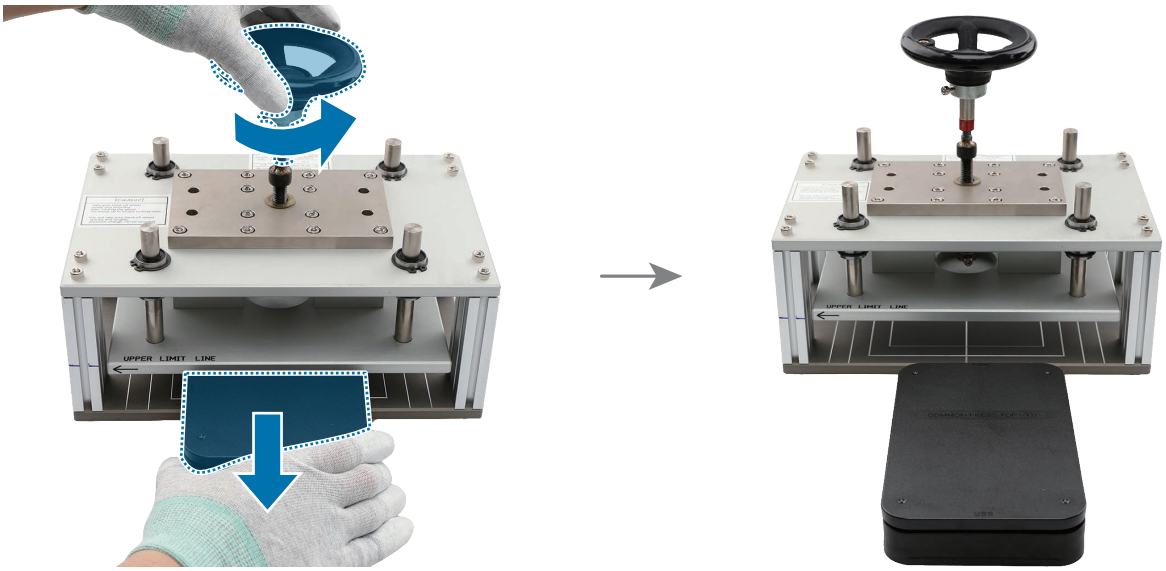
8 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 30 seconds.

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

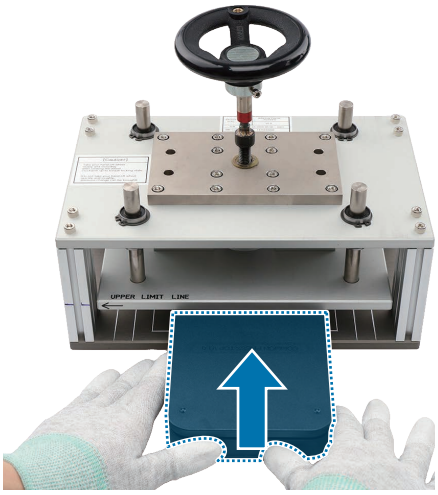
When you reach the required maximum force (1 N), a sound is made from the handle if you turn the handle.



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

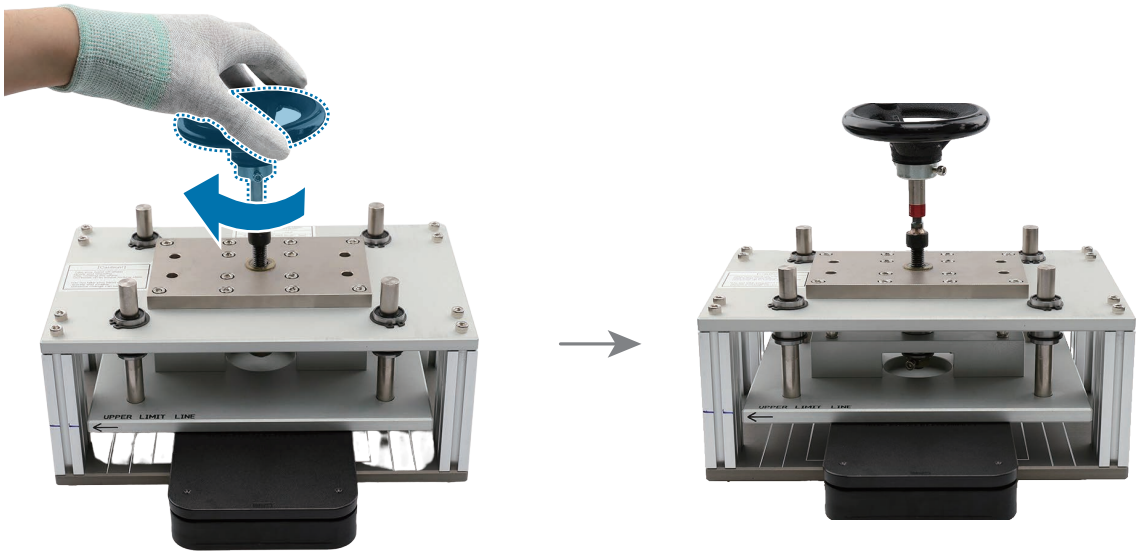


10 Position the bottom 2/3 of the screen press tray with the device lengthwise in the centre of the press fixture.

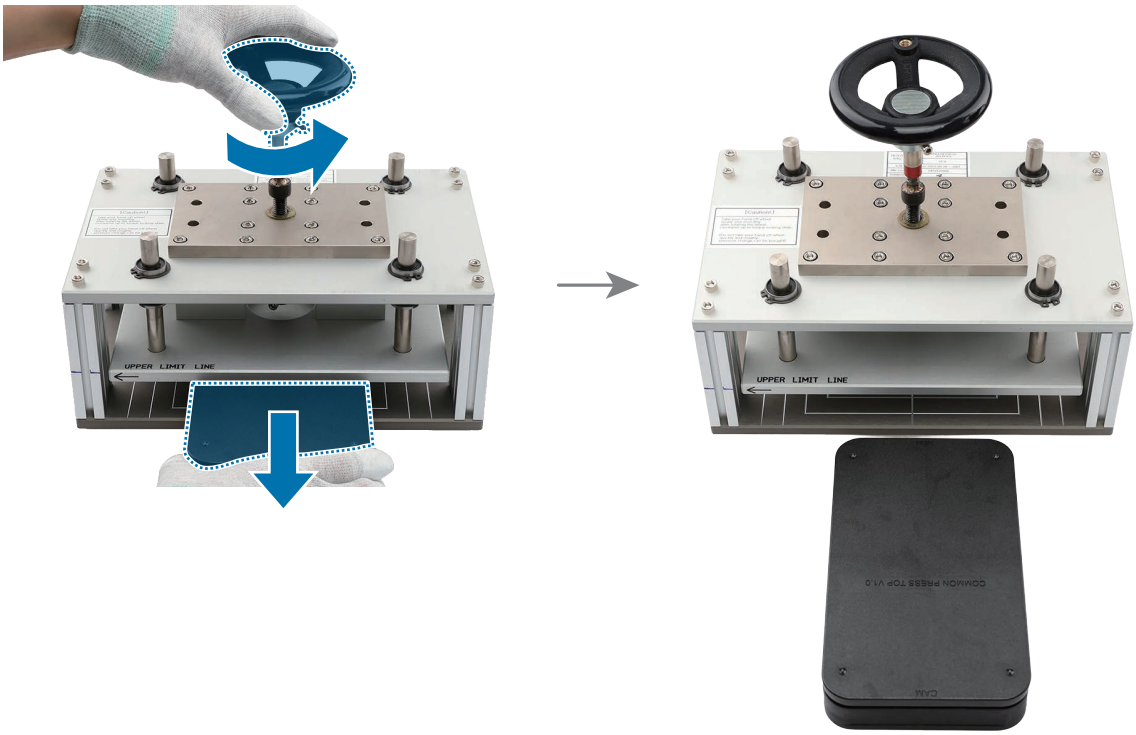


11 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray again for 30 seconds.

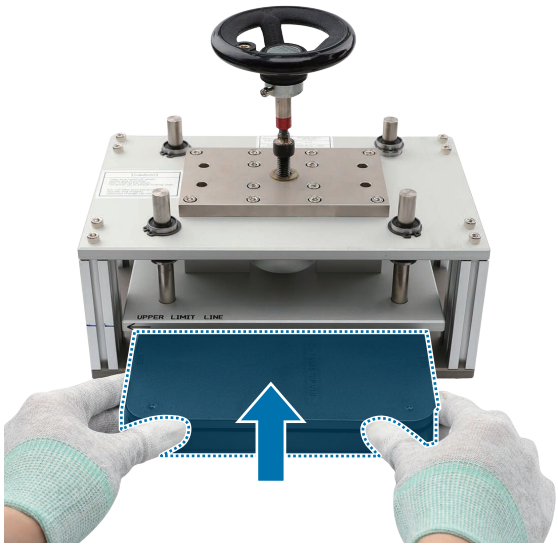
⚠ Keep your hands out the of press fixture to avoid mechanical pinching and injury.



12 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.

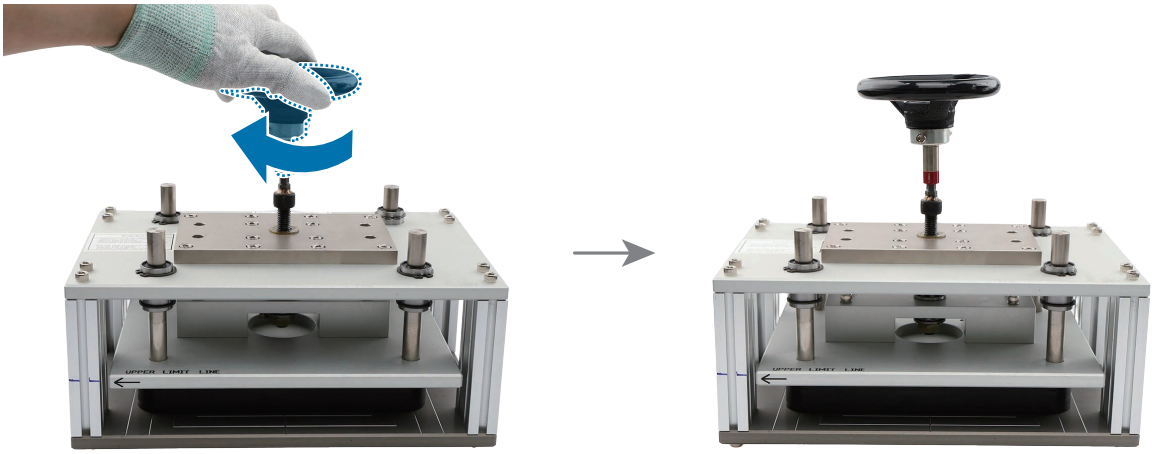


13 Position the entire screen press tray with the device horizontally in the centre of the press fixture.

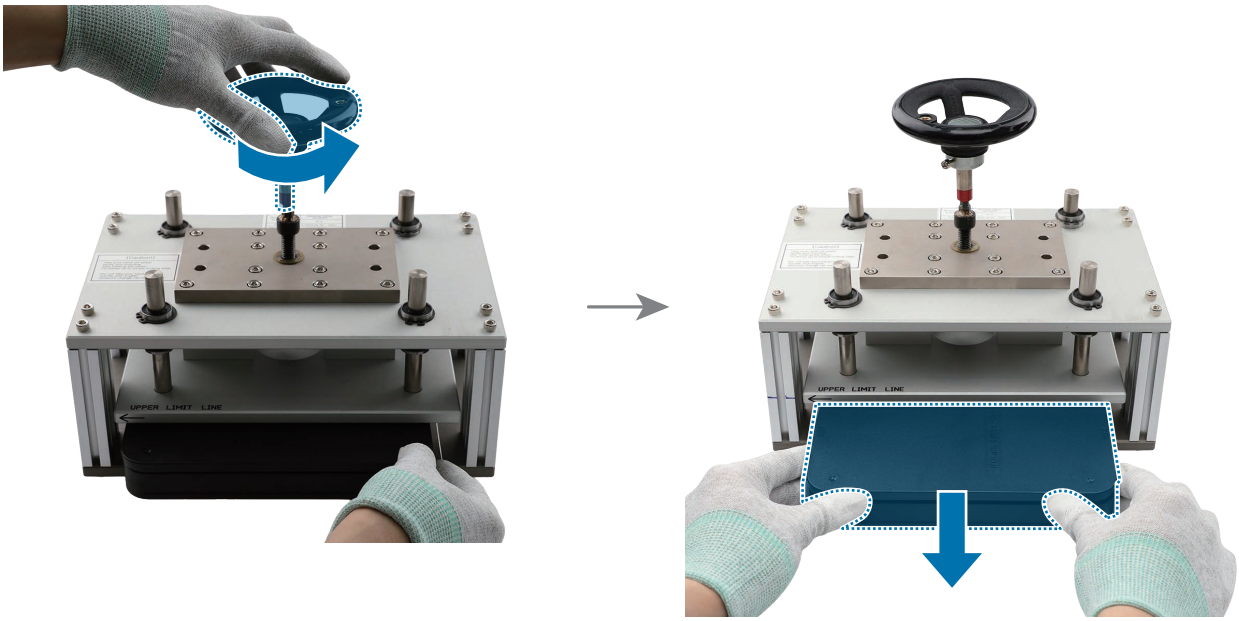


14 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 30 seconds.

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



15 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.



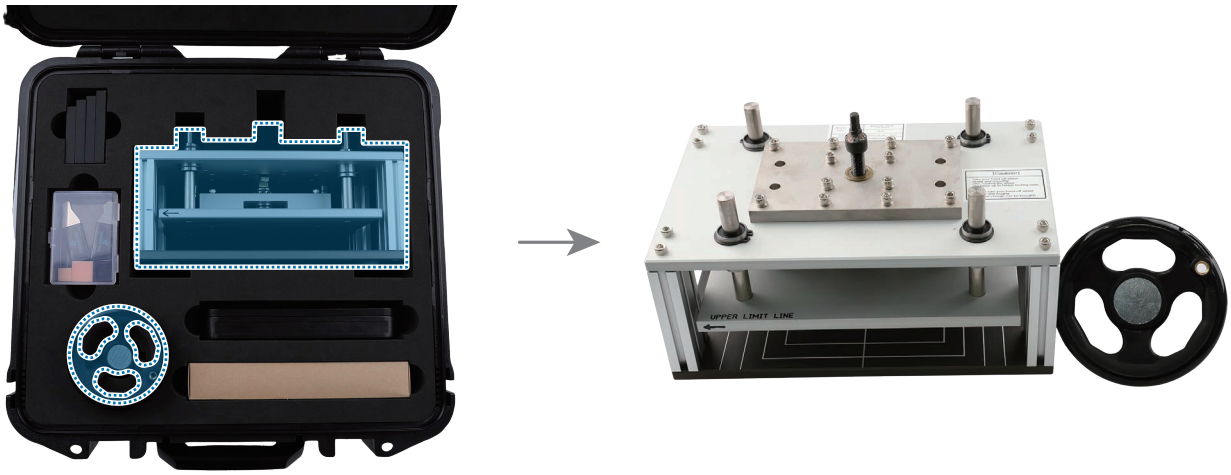
16 Remove the device carefully from the tray.

Battery Press

1 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.

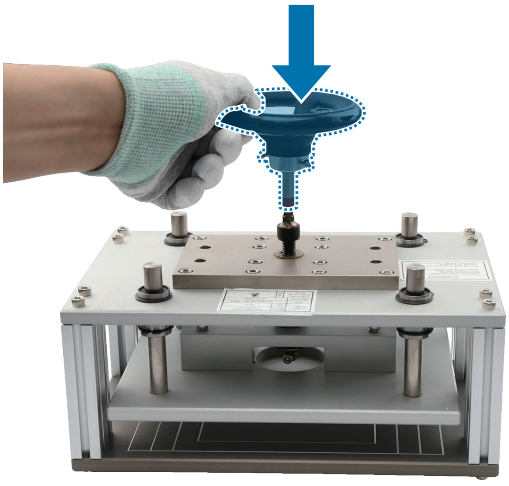
Keep your hands out of the press fixture to avoid mechanical pinching and injury.

- 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.



2 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.

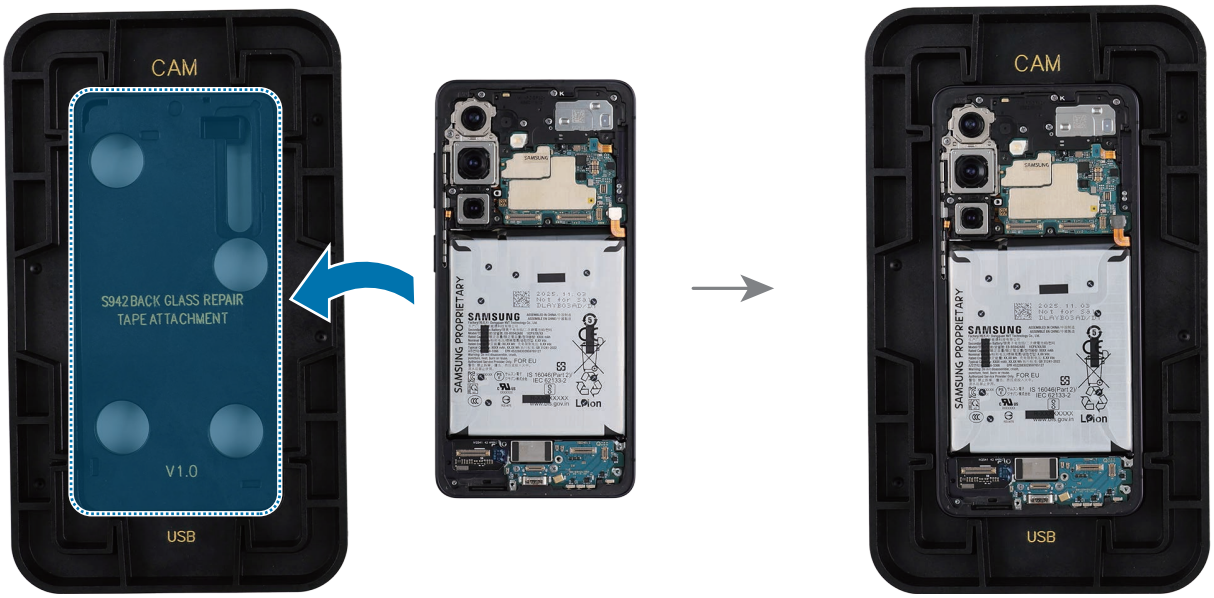


3 Remove the bottom press tray and the battery rubber pads from the rental tool kit packaging.

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

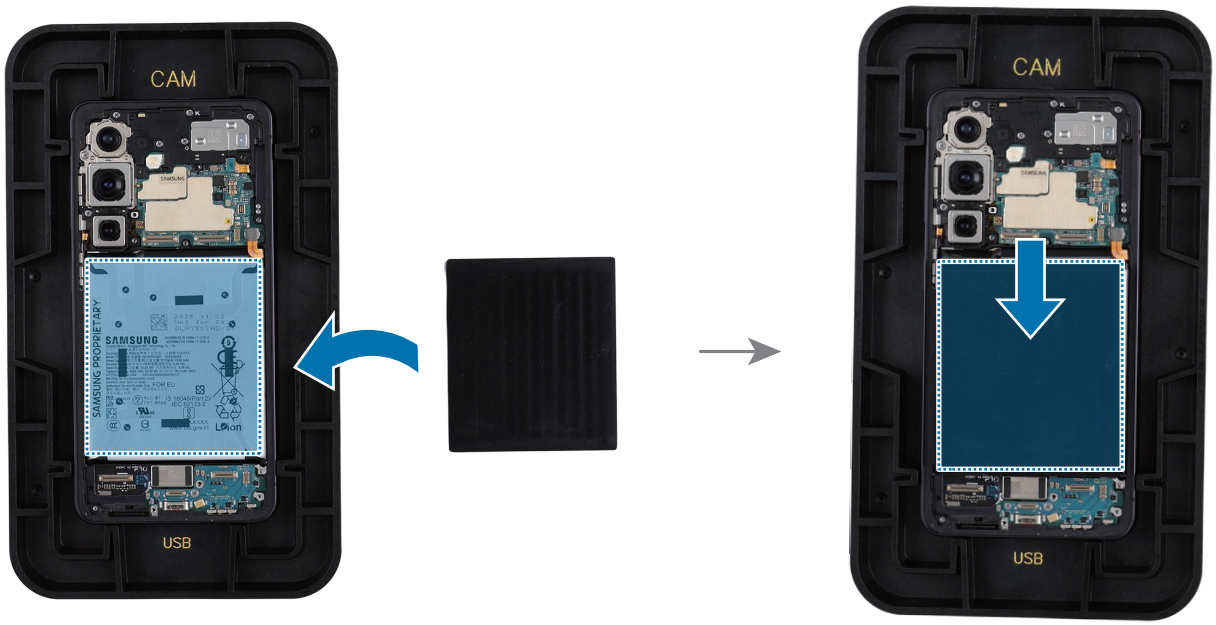
Be sure to remove the guide pins before proceeding. To prevent any potential issues, ensure that the guide pins are fully removed prior to pressing.

You can choose the one side of the bottom press tray depending on the back cover, screen, or battery.



5 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.



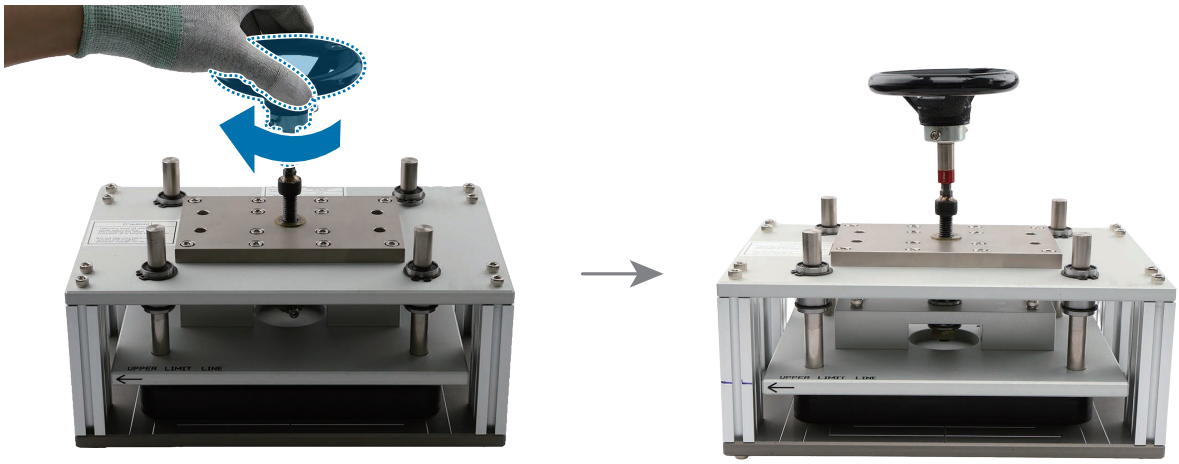
6 Position the entire bottom press tray with the device horizontally in the centre of the press fixture.

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

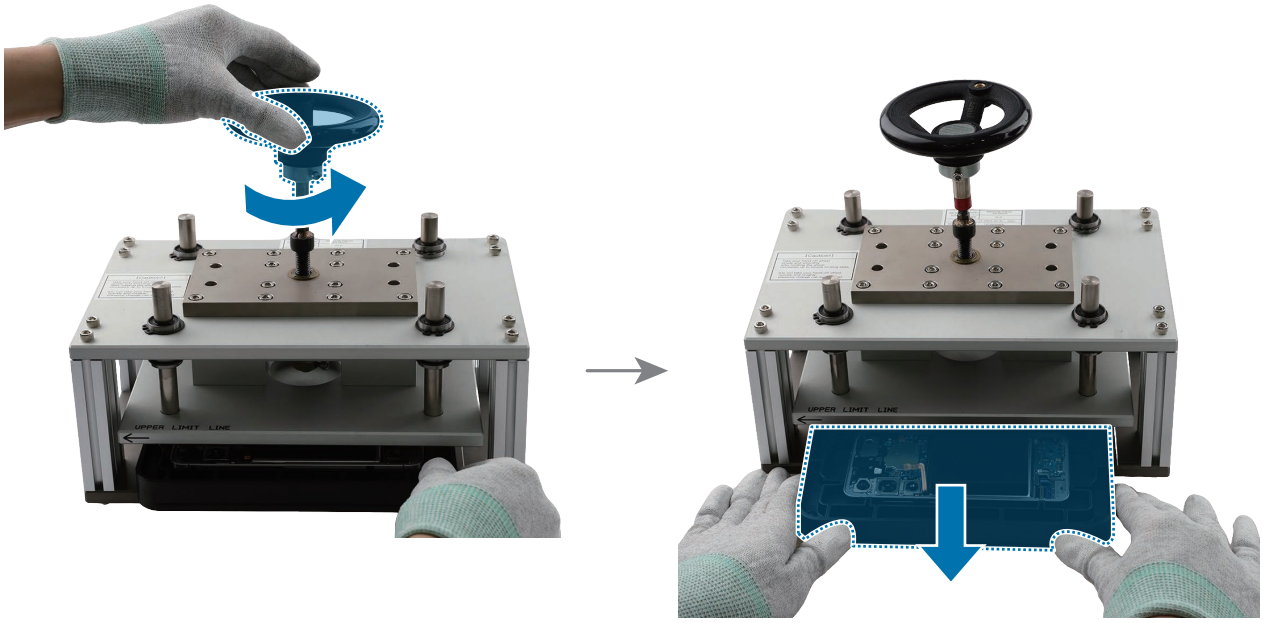
7 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 5 seconds.

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

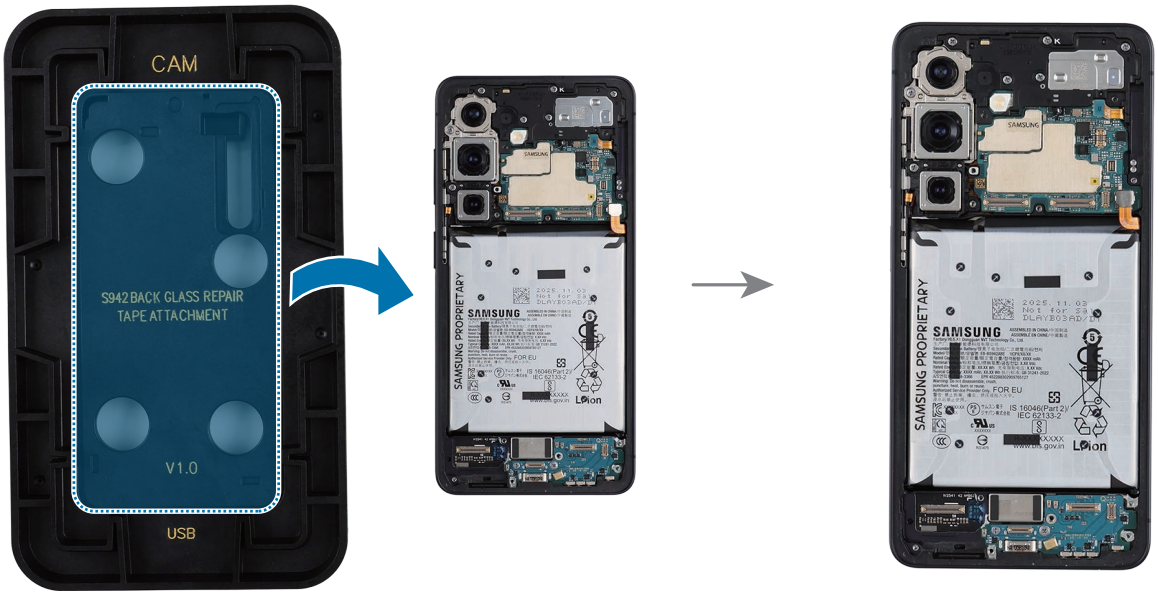
When you reach the required maximum force (1 N), a sound is made from the handle if you turn the handle.



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

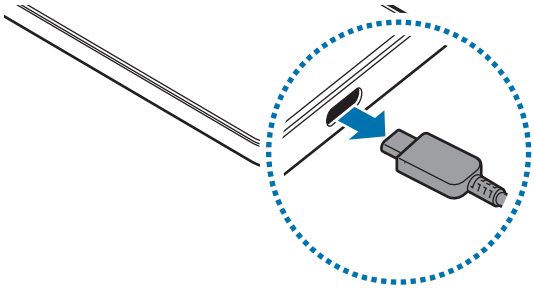


9 Remove the device and the rubber pad carefully from the tray.



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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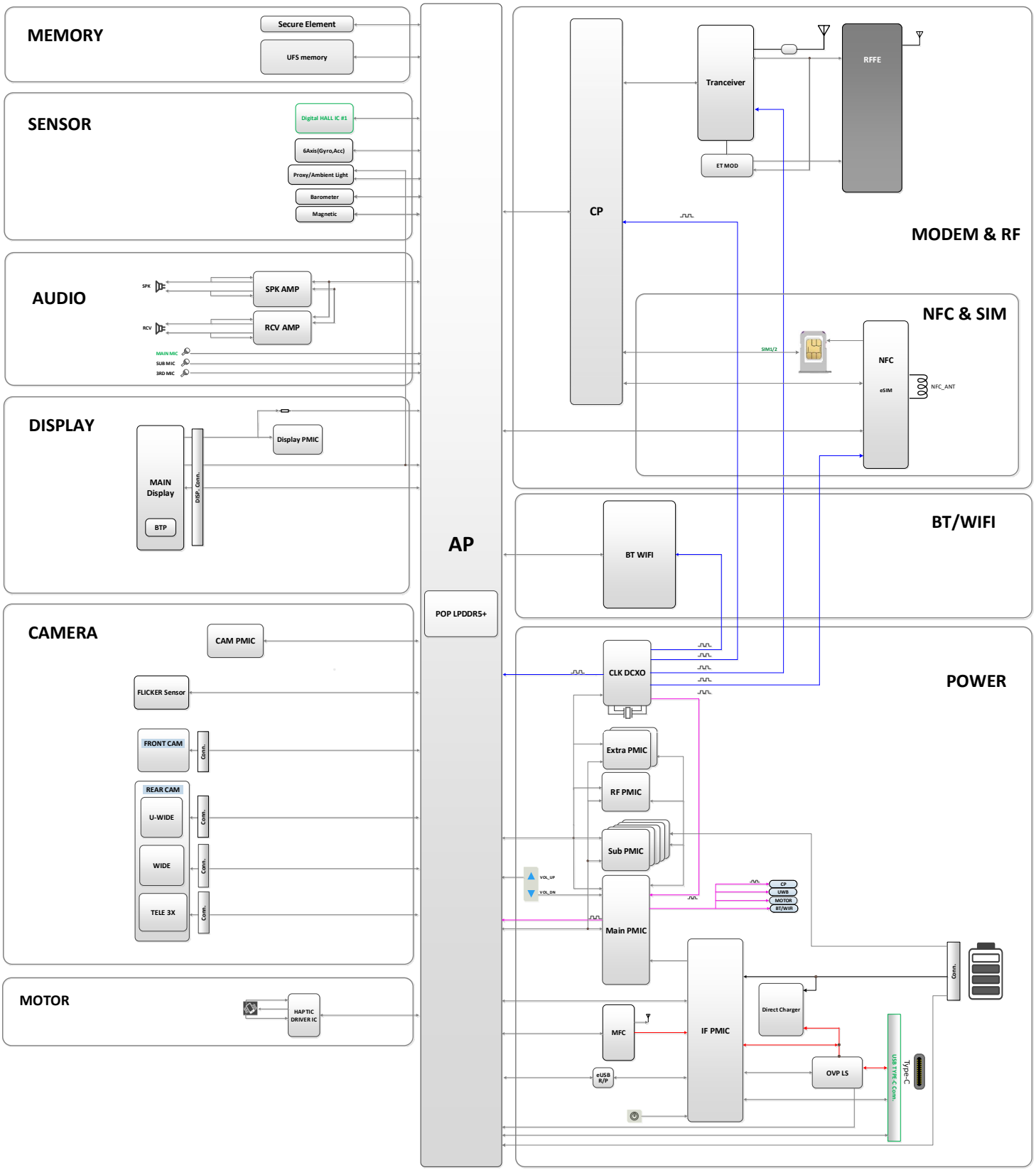
MEMORY
Secure Element
UFS memory
SENSOR
Digital HALL IC #1
6Axis(Gyro,Acc)
Proxy/Ambient Light
Barometer
Magnetic
AUDIO
SPK
SPK AMP
RCV
RCV AMP
MAIN MIC
SUB MIC
3RD MIC
DISPLAY
MAIN Display
BTP
DISP. Conn.
Display PMIC
CAMERA
CAM PMIC
FLICKER Sensor
FRONT CAM
Conn.
REAR CAM
U-WIDE
WIDE
TELE 3X
MOTOR
HAPTIC DRIVER IC
AP
POP LPDDR5+
CP
Tranceiver
ET MOD
RFFE
MODEM & RF
NFC & SIM
SIM1/2
NFC
eSIM
NFC_ANT
BT/WIFI
BT WIFI
POWER
CLK DCXO
Extra PMIC
RF PMIC
Sub PMIC
Main PMIC
VOL_UP
VOL_DN
CP
LWB
MOTOR
BT/WIR
MFC
eUSB R/P
IF PMIC
Direct Charger
OVP LS
USB TYPE-C Conn.
Type-C
Conn.