

SAMSUNG

REPAIR GUIDE

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www.samsung.com



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Usage Notices

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

Precautions for Repair

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

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

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




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

ESD (Electrostatic Discharge) Precautions

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

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

Instructional Icons


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

Software Update

Updating Software through FOTA

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

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


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

Software Update Failure

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

Updating Software through Smart Switch

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



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

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

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



Recovering from a Software Update Failure

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

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

Recovering on Another Computer


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

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

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

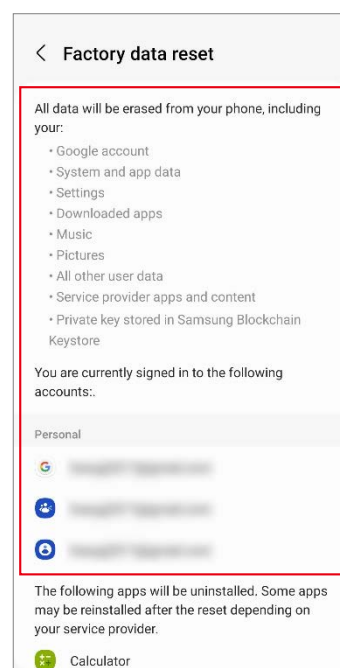
Performing a Factory Data Reset

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

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

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

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



3 Tap **Reset** → **Delete all**.

All data will be deleted when rebooting.

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

Quality Test

Quality Test Using the Samsung Members App

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

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

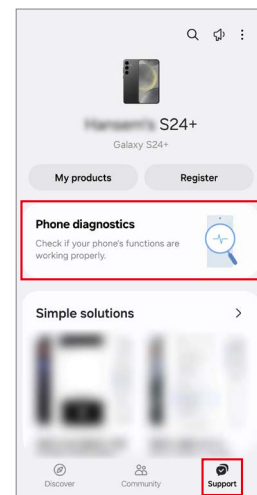
Device Diagnostics

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

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

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

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

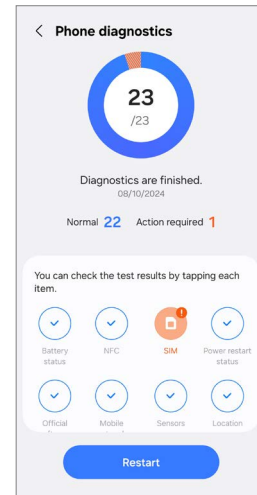


3 Tap **Test all**.

The device performs a test on all items.

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

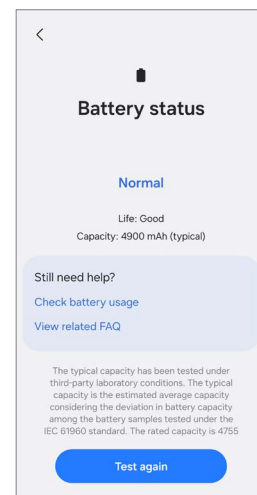
- Tick mark: Working normally
- Exclamation mark: Needs further inspection
- ✍️ • The test proceeds automatically, but you may need to follow the on-screen instructions depending on the test item. Keep an eye on the screen during testing to ensure smooth progress.
- If the exclamation mark appears on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



Test Items

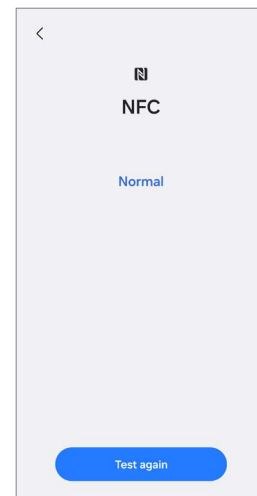
Battery status

Check the battery life and capacity.



NFC

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

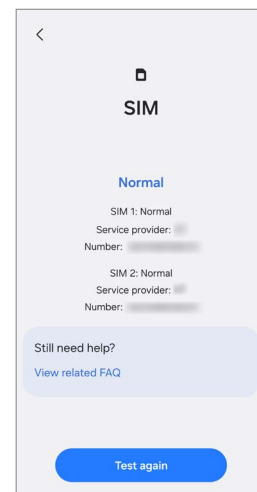


SIM

Check whether the SIM is working normally.

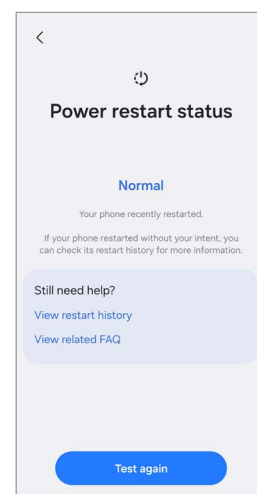


If the test result is not **Normal**, remove the SIM card from the SIM card tray and replace it. If possible, try again with another SIM card.



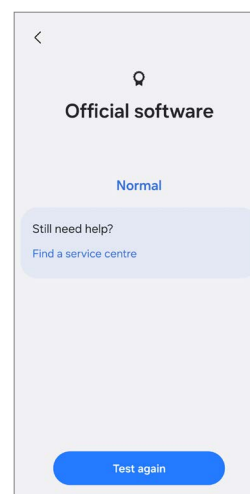
Power restart status

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



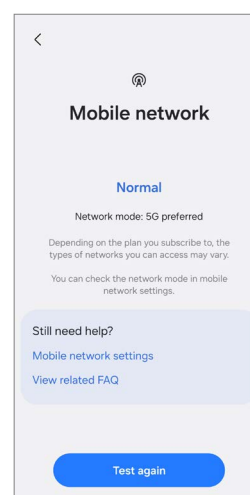
Official software

Check whether the official software is being used.



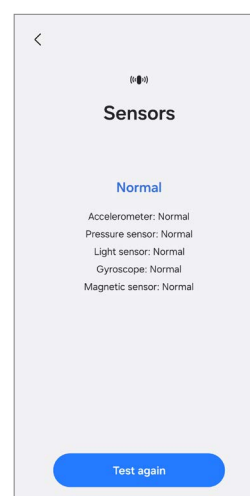
Mobile network

Check whether your mobile network is working normally.




Sensors

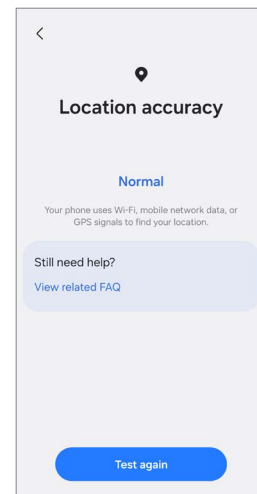
Check whether the sensors are working normally.



Location accuracy


Check whether the location feature is working normally.

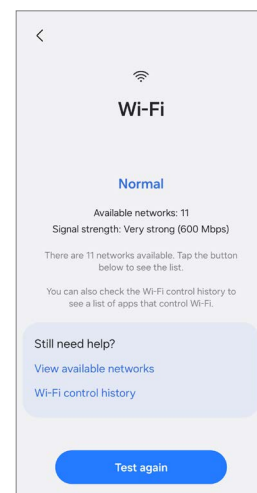
-  The results might be more accurate when you test outside.



Wi-Fi


Check whether the Wi-Fi feature is working normally.

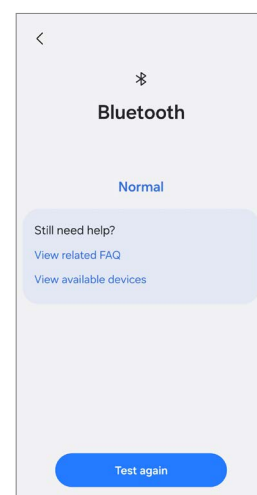
-  To test this feature, the Wi-Fi feature must be activated.



Bluetooth

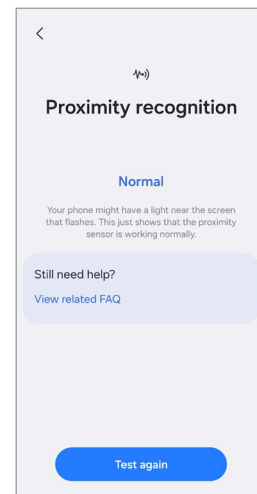
Check whether Bluetooth can search for other Bluetooth devices.

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



Proximity recognition

Check whether the proximity recognition feature is working normally.

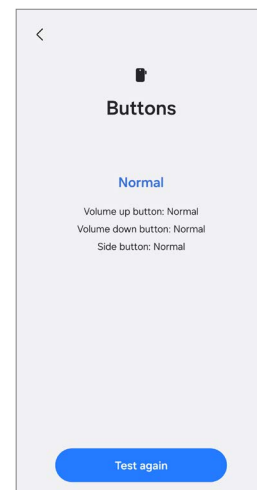


Buttons

Check whether the buttons are working normally.

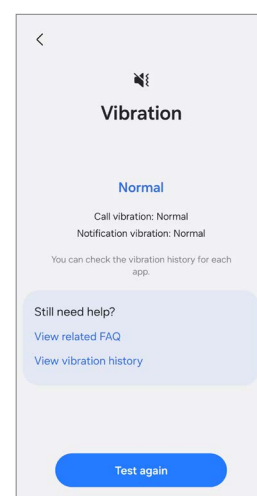


Make sure that the buttons are not contaminated to get more accurate test results.




Vibration

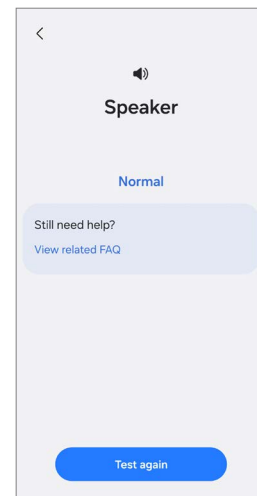
Check whether the vibration feature is working normally.



Speaker


Check whether the speakers are working normally.

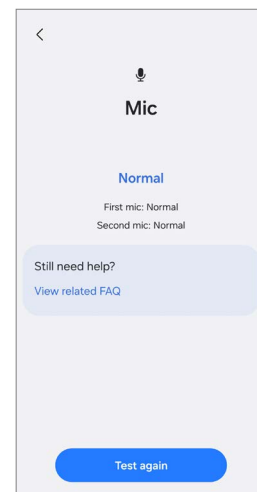
-  If you cannot hear the sound well, check whether the media volume is turned up and if the speaker is obstructed by foreign objects, the case, or the protective film.



Mic


Check whether the microphones are working normally.

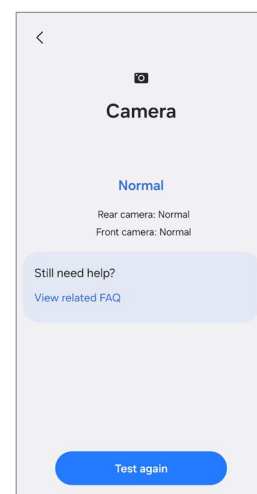
- 
 - The number of tests may vary depending on the model.
 - If you cannot hear anything after recording, check whether the media volume is turned up and if the microphone or speaker is obstructed by foreign objects, the case, or the protective film.



Camera


Check whether the cameras are working normally.

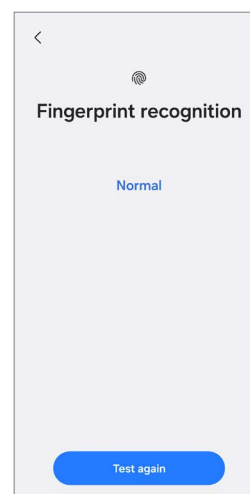
-  To test this more accurately, check if the camera is obstructed by foreign objects, the case, or the protective film.



Fingerprint recognition


Check whether the fingerprint recognition sensor is working normally.

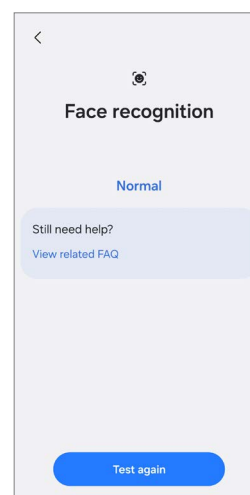
-  To test this feature, your fingerprint must be registered.



Face recognition


Check whether the face recognition sensor is working normally.

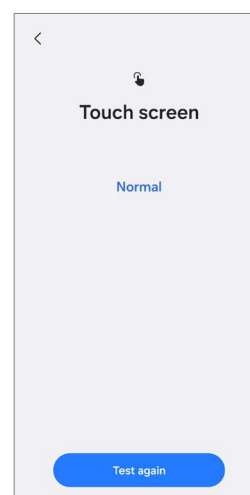
-  To test this feature, your face must be registered.



Touch screen

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

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

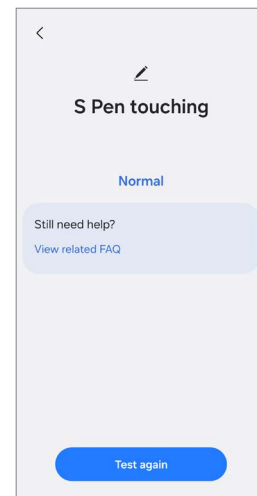


S Pen touching

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



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

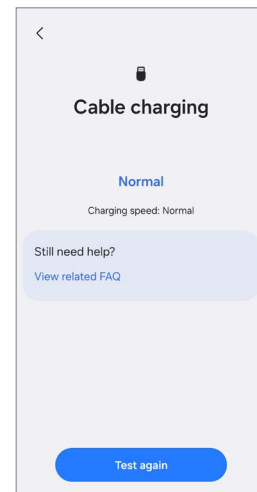


Cable charging

Check whether the cable charging feature is working normally.



- Use only Samsung-approved chargers.

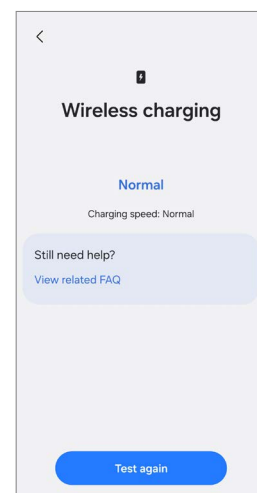


Wireless charging

Check whether the wireless charging feature is working normally.




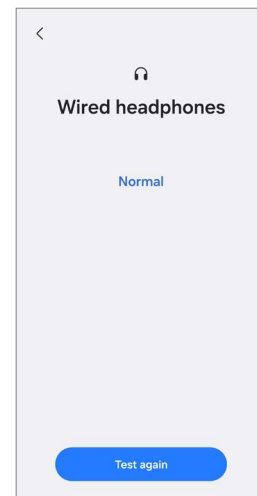
- Use only Samsung-approved wireless chargers.



Wired headphones


Check whether the headphone jack recognises the headphones normally.

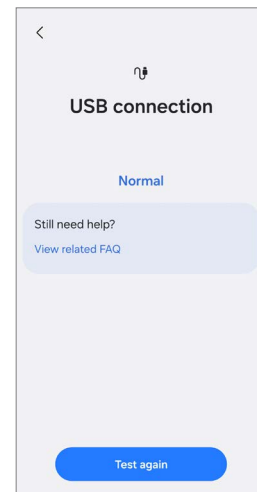
-  To test this feature, you must connect headphones.



USB connection

Check whether the multipurpose jack recognises the USB cable normally.

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



Calibrations

Calibrations

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

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



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

Used Parts and Calibration Functions in Supported Models

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

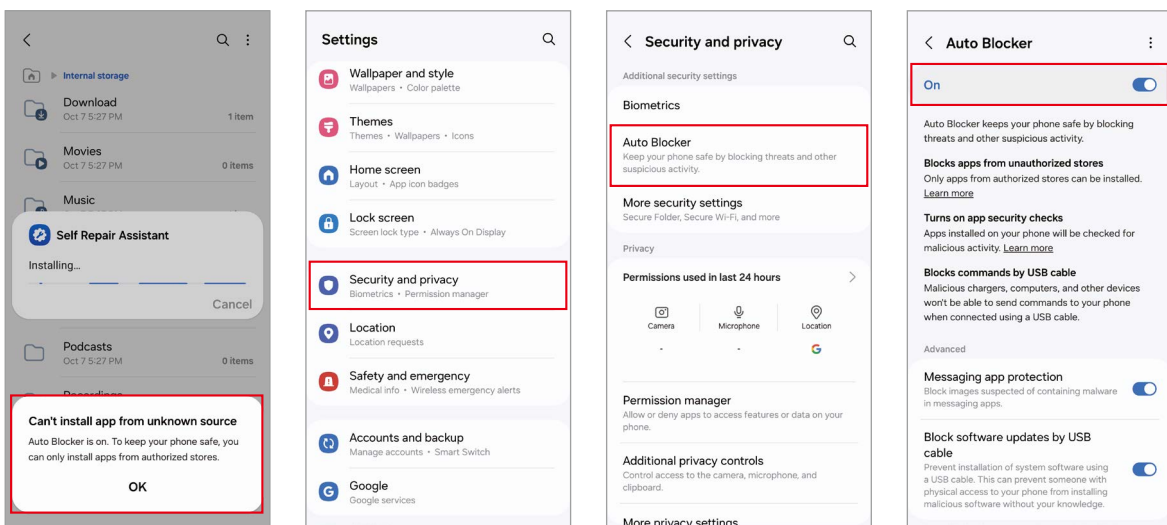
	Screen	Battery	Back Glass	Charging Port	Speaker
Optical Fingerprint Cal.	Yes	No	No	No	No
Range Sensor Cal.	Yes	Yes	Yes	Yes	Yes
Battery Cycle Resets.	No	Yes	No	No	No
Touch Screen Panel Cal.	Yes	No	No	No	No
Speaker Cal.	No	No	No	No	Yes
Under-display Camera Cal.	Yes	No	No	No	No
Digital Hall Sensor Cal.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

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

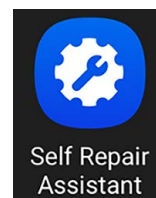
Using the Self Repair Assistant App

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

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

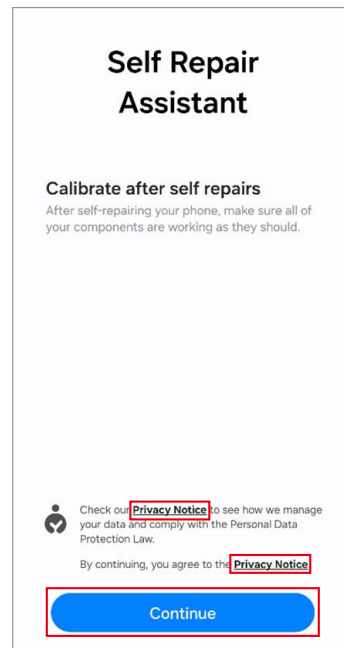
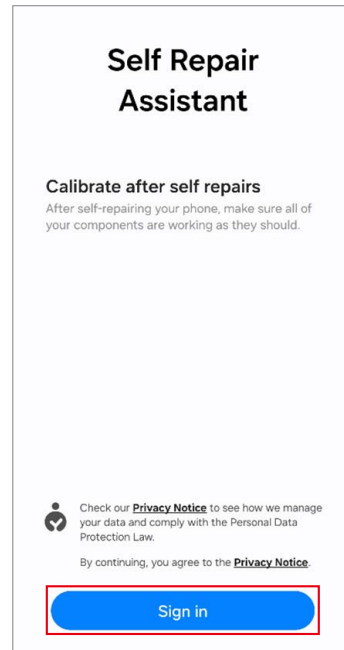


2 Launch the **Self Repair Assistant** app.

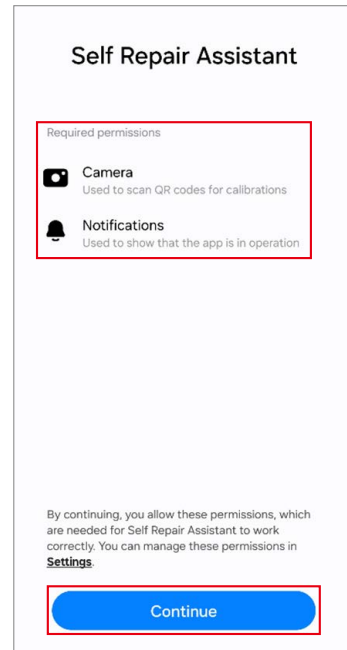


3 Read Privacy Notice and tap **Continue**.

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



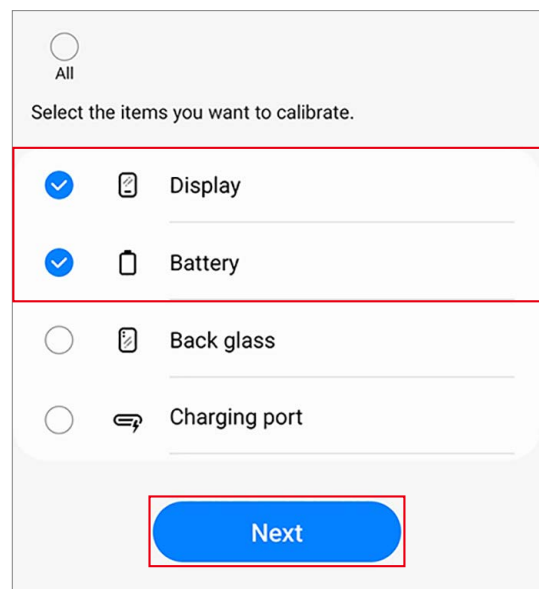
4 Check permissions and tap **Continue**.




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



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



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

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

Optical fingerprint sensor calibration

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

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

Start

Skip

Camera range sensor calibration

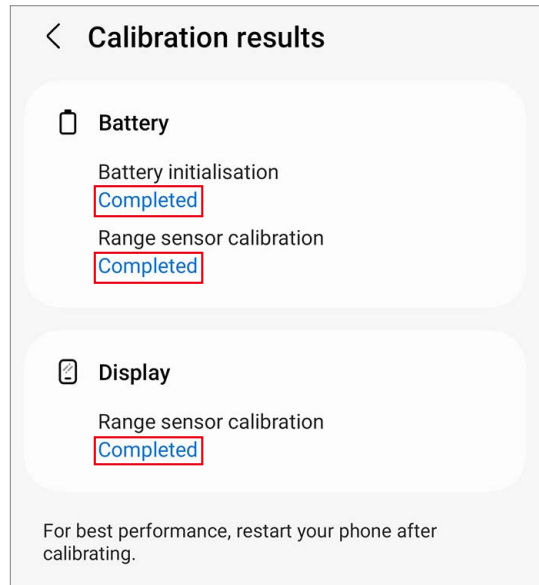
This calibration needs to be done in the dark. Move to a dark room before starting this calibration.

Start

Skip

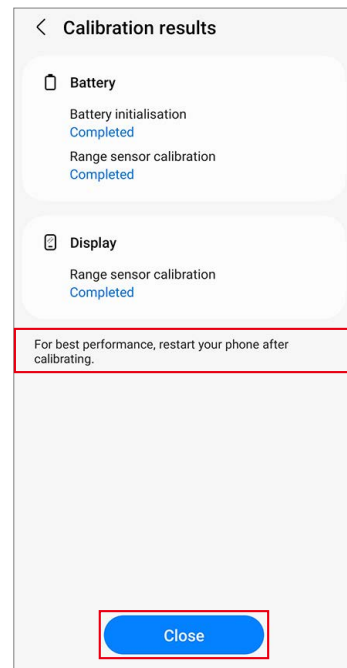
7 Check the results of each calibration item.

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



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

Restart your device to finish calibrating.



Optical Fingerprint Sensor Calibration

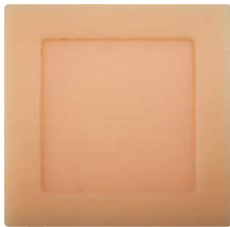
Whenever the screen is replaced, the optical fingerprint sensor must be calibrated to guarantee optimised fingerprint sensor performance for devices that have it.

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



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

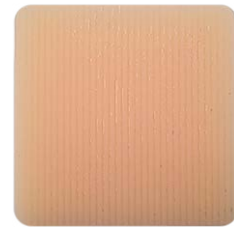
White calibration box



Black calibration box



3D fingerprint dummy rubber

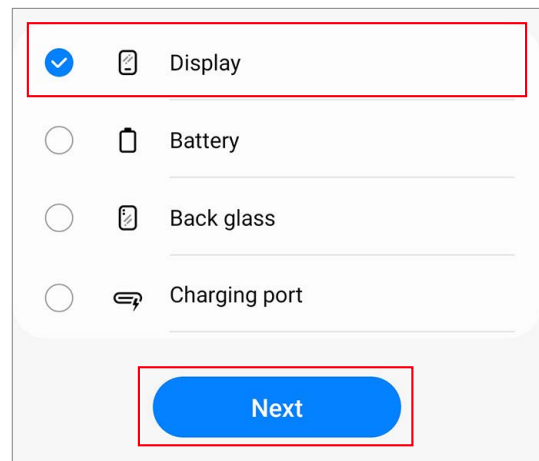


1 Launch the **Self Repair Assistant** app.

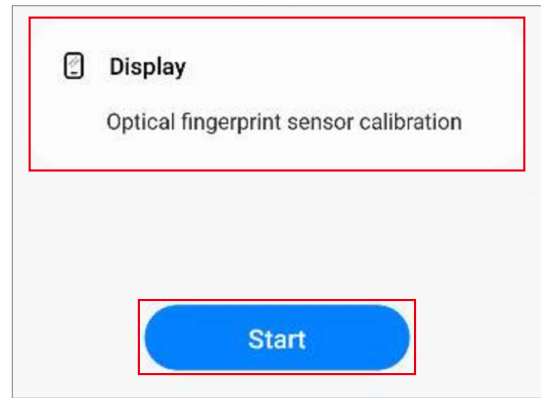
2 Tap **Display** → **Next**.




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

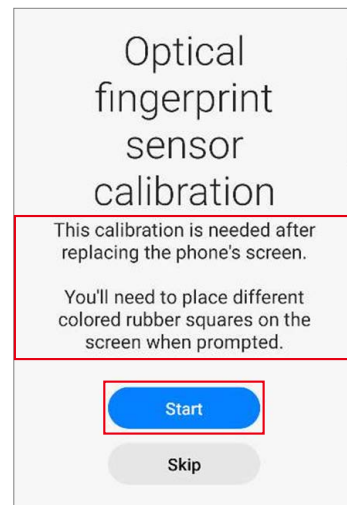


- 3 Check the part and calibration and then tap **Start**.




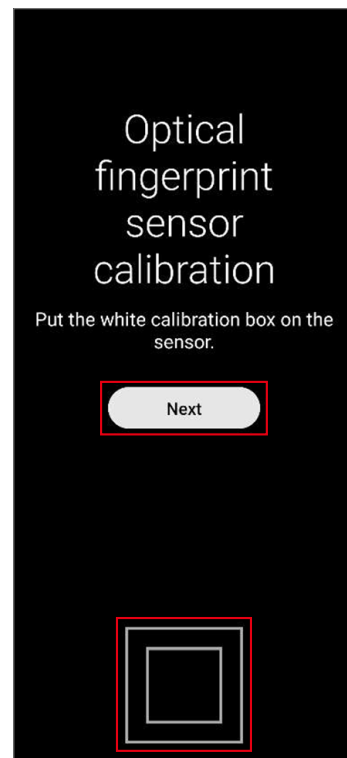
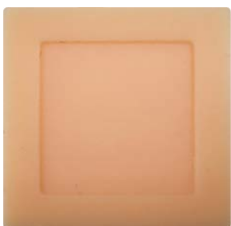
- 4 Read the on-screen instructions and tap **Start**.

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



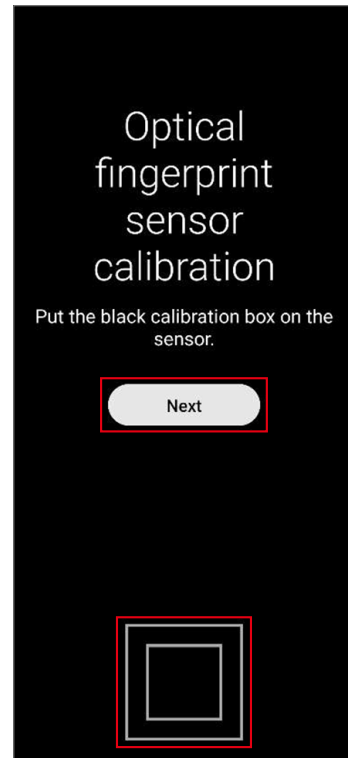
- 5 Put the white calibration box on the sensor area (below the square side) and push the rubber by applying force with your finger. Tap **Next** and keep pushing the rubber with your finger until you see the success message.

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



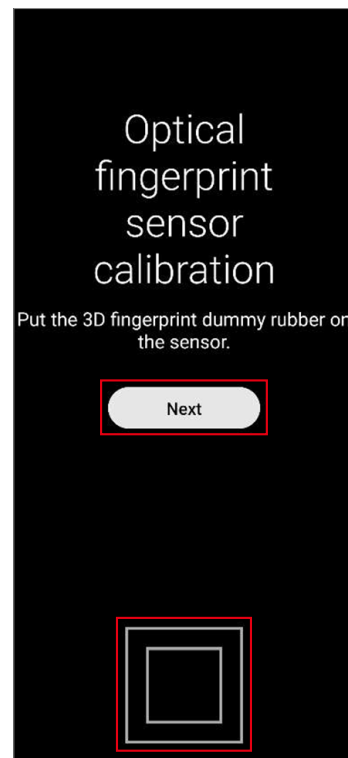
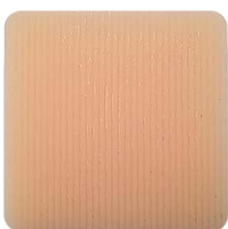
6 Put the black calibration box on the sensor area (below the square side) and push the rubber by applying force with your finger. Tap **Next** and keep pushing the rubber with your finger until you see the success message.

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




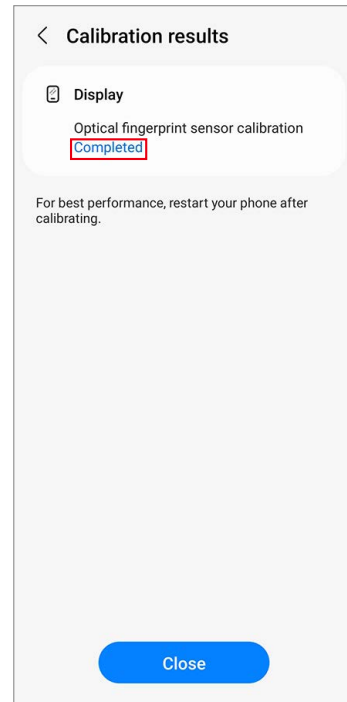
7 Put the 3D fingerprint dummy rubber on the sensor area (below the square side) and push the rubber by applying force with your finger. Tap **Next** and keep pushing the rubber with your finger until you see the success message.

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



8 Check the result of the calibration.

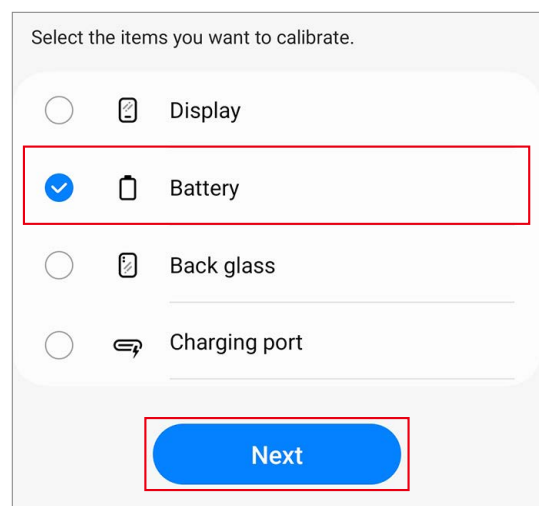
-  **Completed** appears only when the calibration is successfully completed. If **Completed** does not appear, try calibrating again.



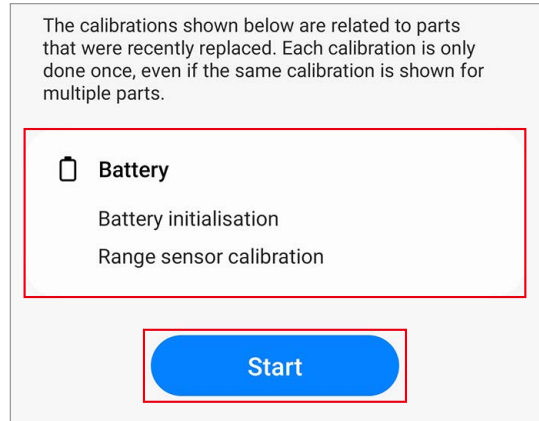
Resetting the Battery Cycle Count

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

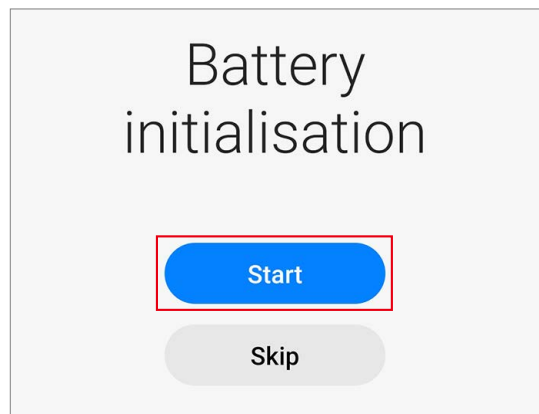
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced. Tap **Battery** → **Next**.



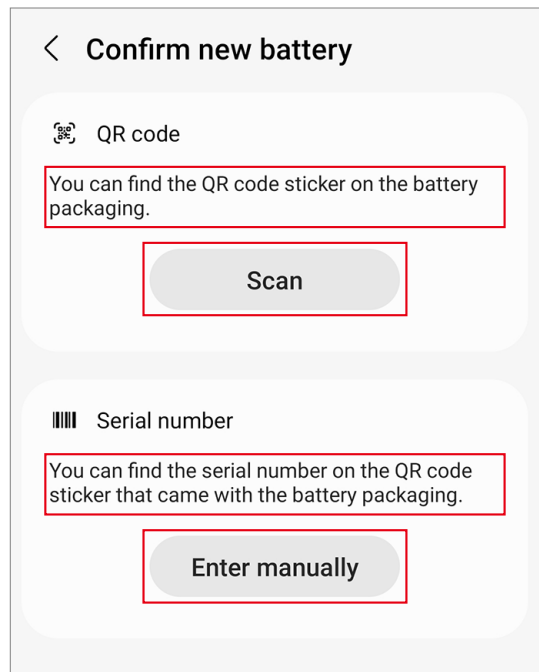
3 Check part and calibration and tap **Start**.



4 Tap **Start**.




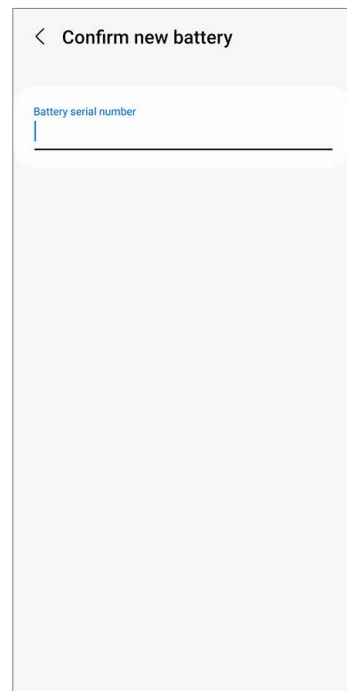
5 Read the on-screen instructions and tap **Scan** to scan the QR code, or tap **Enter manually** to enter the serial number manually.



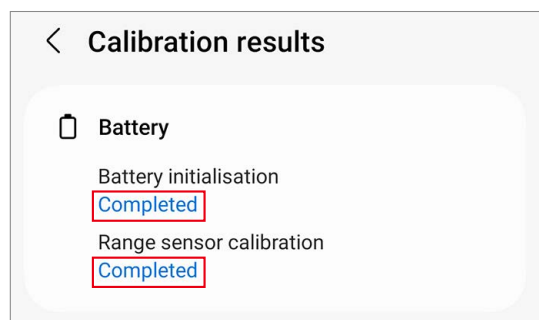
6 Scan the QR code or enter the serial number that appears on the battery package.

The reset will begin.

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




7 Check the calibration results.



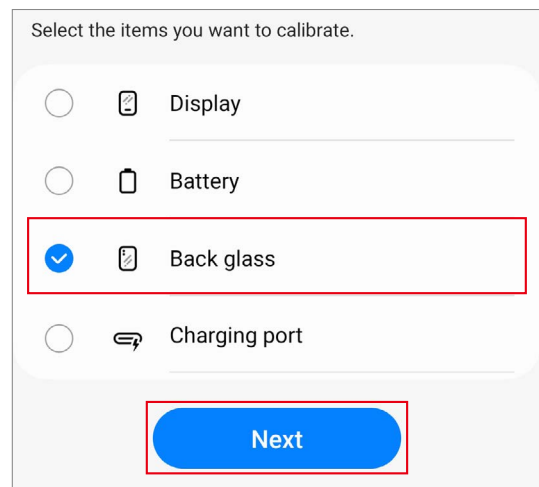
Range Sensor Calibration

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

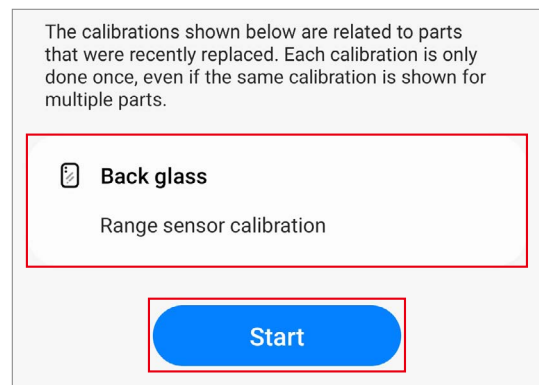
Range sensor calibration is available through the **Self Repair Assistant** app.

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

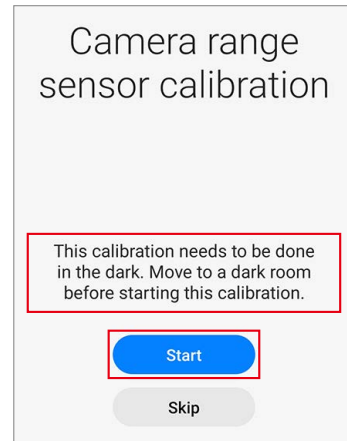
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



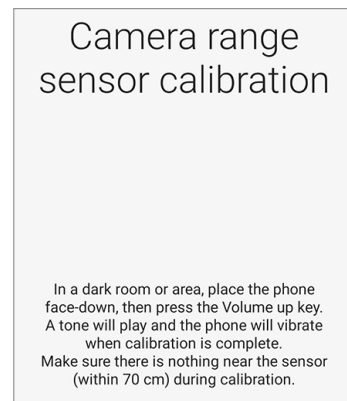
- 3 Check part and calibration and tap **Start**.



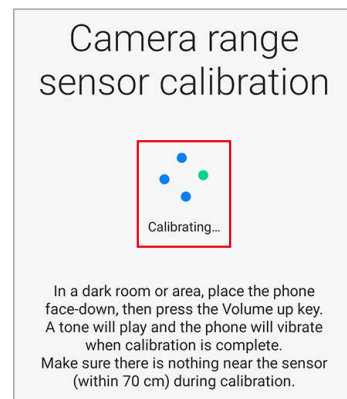
- 4 Read the on-screen instructions and tap **Start**.



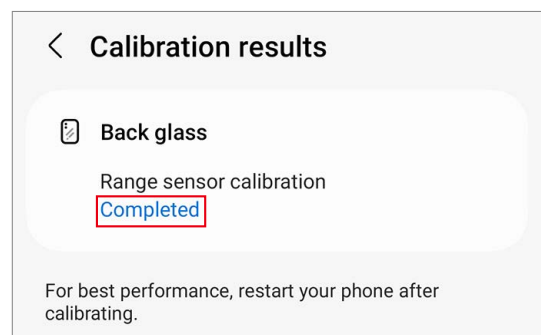
- 5 In a dark room or area, place the phone face-down, then press the Volume button.



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



- 7 Check the calibration result.



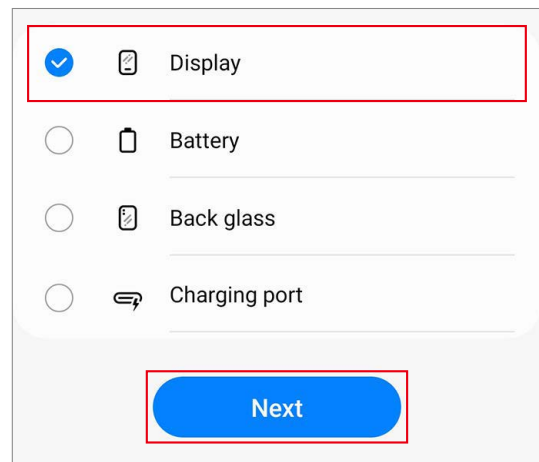
Touch Screen Panel Calibration

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

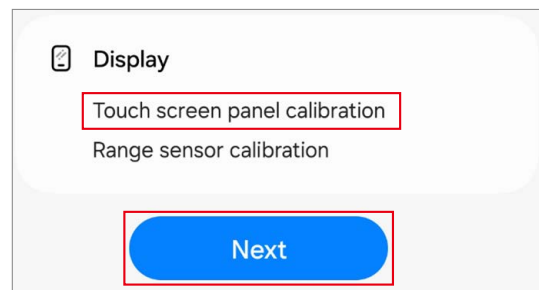
Touch screen panel calibration is available through the **Self Repair Assistant** app.

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

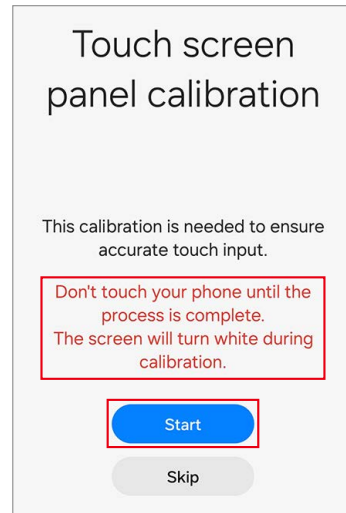
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



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



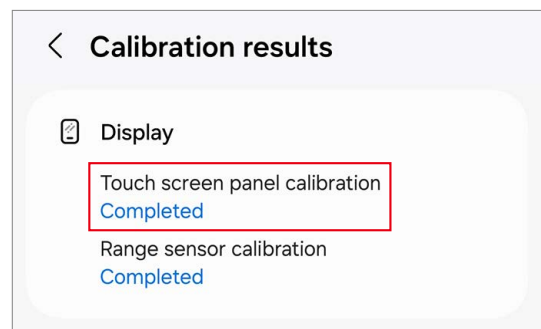
- 4 Read the on-screen instructions and tap **Start**.



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



- 6 Check the calibration result.

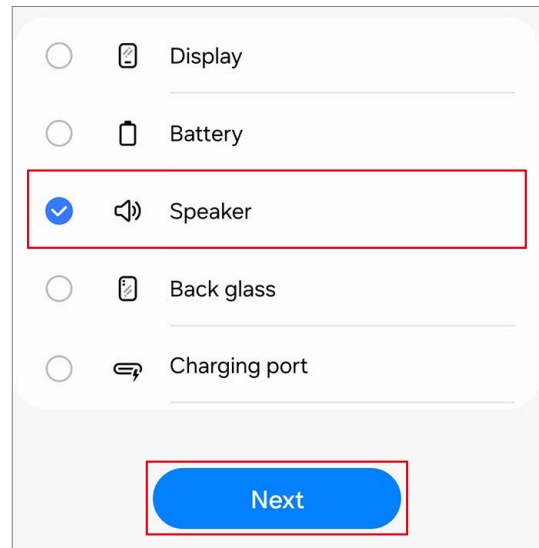


Speaker Calibration

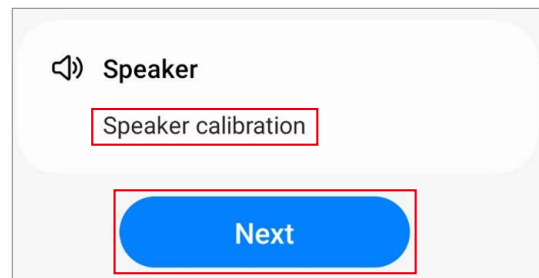
When replacing speakers, the speaker must be calibrated to guarantee optimised speaker performance for devices that have it.

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

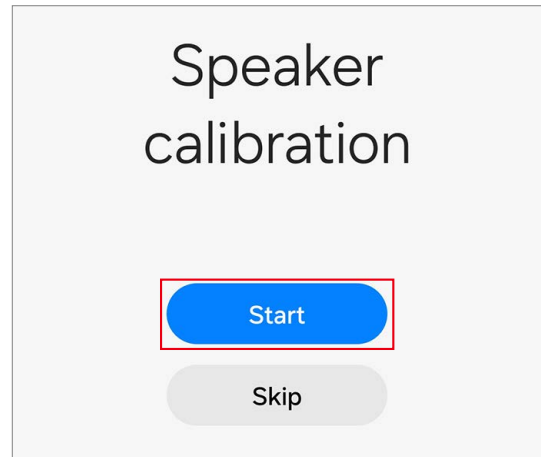
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



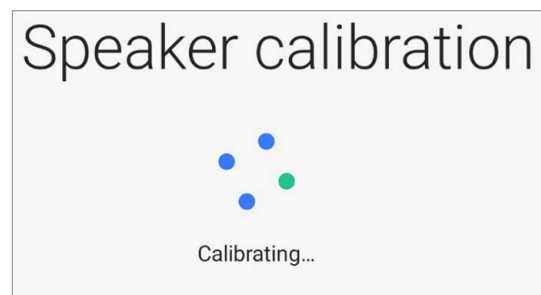
- 3 Check part and calibration and tap **Next**.



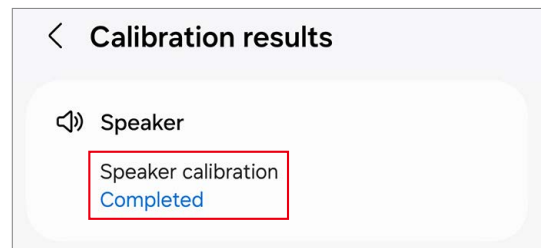
4 Tap **Start**.



5 The calibration will perform automatically.




6 Check the calibration result.



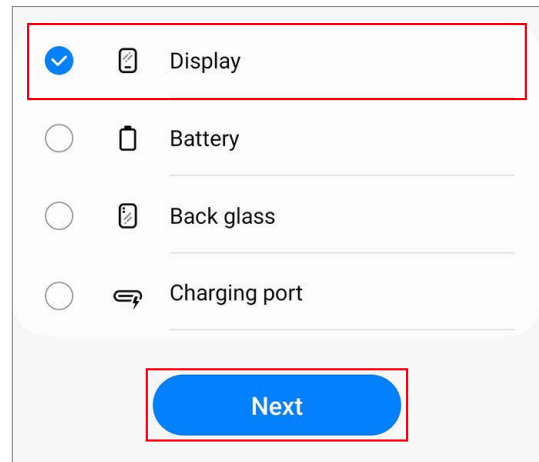
Under-display Camera Calibration (Fold Models Only)

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

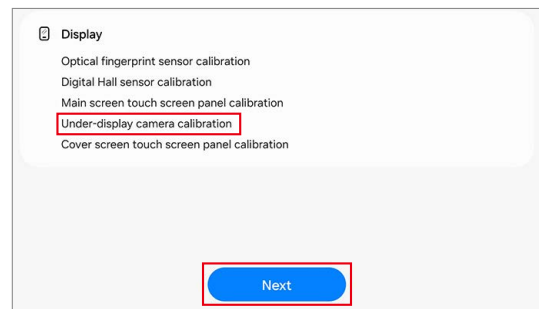
Under-display camera calibration is available through the **Self Repair Assistant** app.

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

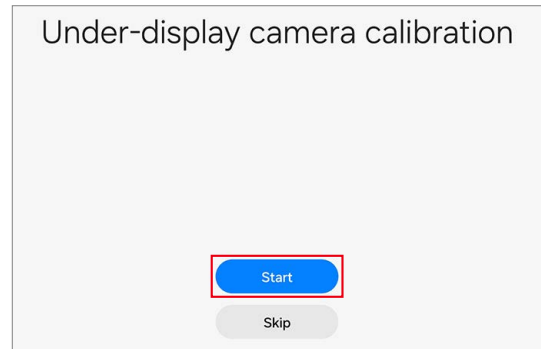
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



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

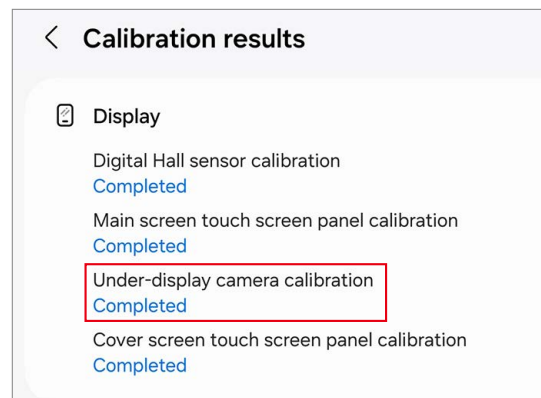


4 Tap **Start**.



5 The calibration will perform automatically.

6 Check the calibration result.



Digital Hall Sensor Calibration (Fold and Flip Models Only)

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

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



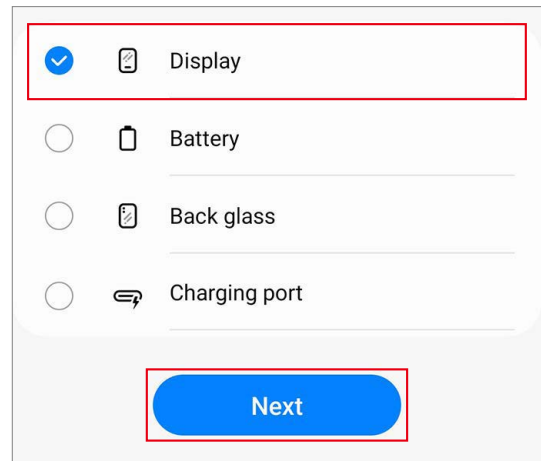
- This feature may not be available depending on the model. The availability of this feature can be automatically checked in the Self Repair Assistant app, so please follow the guidance of the Self Repair Assistant app.
- **For Fold models:** If the main screen does not turn on after being replaced (the main screen is off and the cover screen is on when the device is unfolded), follow the steps below to perform digital hall sensor calibration. The boot screen (the screen where the Samsung and carrier logos appear) will appear normally and then turn off, so it is not a hardware failure.

- 1) Fold the device and launch the **Self Repair Assistant** app on the cover screen.
- 2) Move to the digital hall sensor calibration screen, unfold the device, and then press the Volume Up button or the Volume Down button.
- 3) You will hear a vibration, and the calibration will be performed automatically.

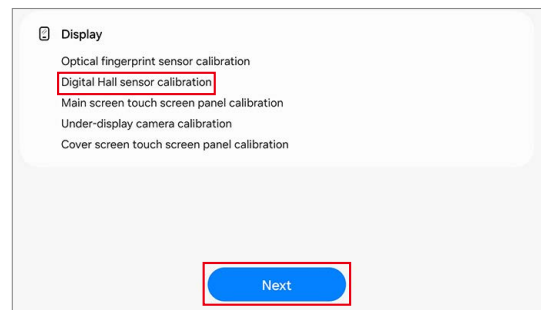
When calibration is complete, the main screen will turn on normally.

- **For Flip models:** If the main screen does not turn on after being replaced (the main screen is off and the cover screen is on when the device is unfolded), follow the steps below to force the main screen to turn on and perform digital hall sensor calibration. The boot screen (the screen where the Samsung and carrier logos appear) will appear normally and then turn off, so it is not a hardware failure.
- 1) Connect the USB cable to the device, and connect the other end of the USB cable to the USB power adapter or your computer.
 - 2) While pressing and holding the Side button, press the Volume Up button once and the Volume Down button twice.
 - 3) When the main screen turns on, perform digital hall sensor calibration.

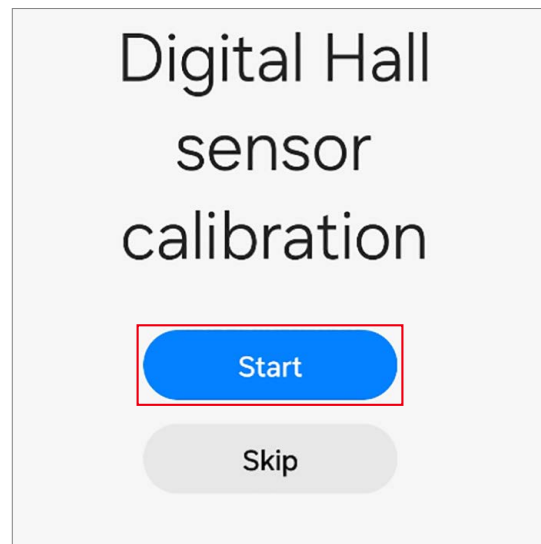
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



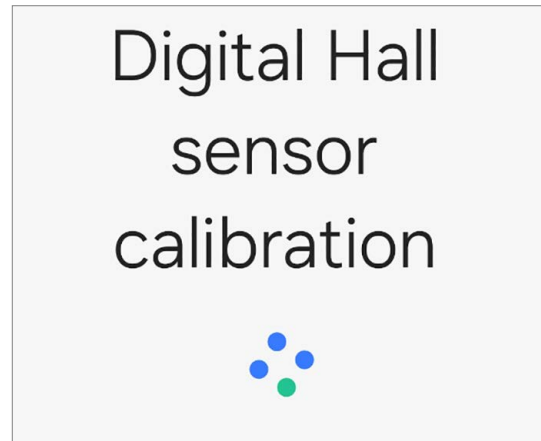
- 3 Check part and calibration and tap **Next**.



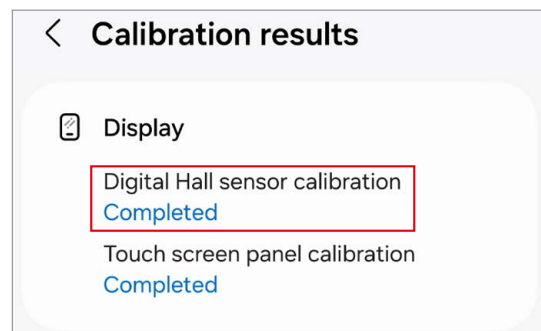
- 4 Tap **Start**.




5 The calibration will perform automatically.



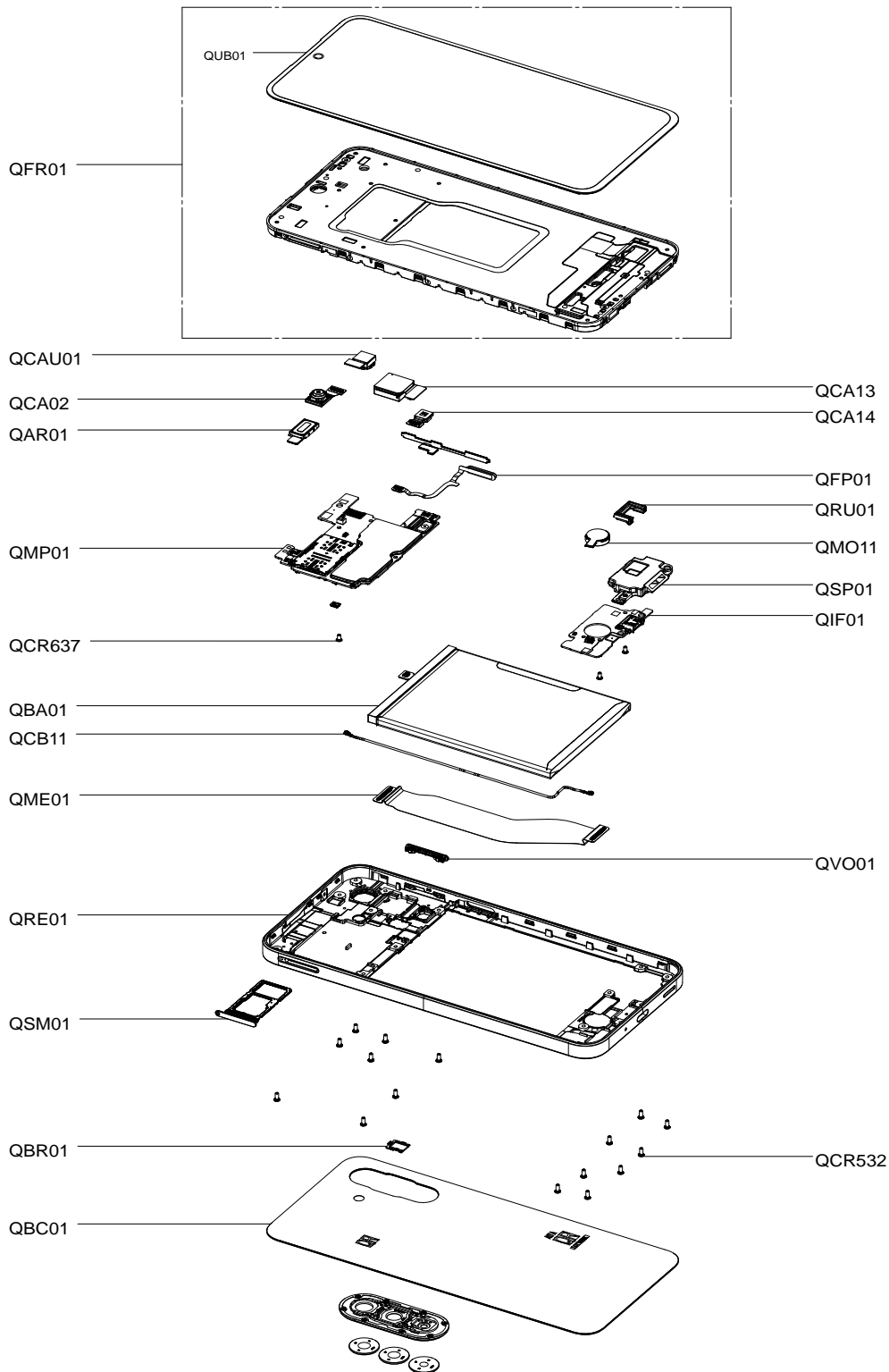
6 Check the calibration result.



Exploded View and Parts List

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

Exploded View




Parts List





Number	Name
QCR532	Screw 3532
QCR637	Screw 3637
QBR01	Fingerprint Recognition Sensor Connector Cover
QCA14	Rear Camera (Macro)
QCAU01	Rear Camera (Ultra Wide)
QCA02	Front Camera
QCA13	Rear Camera (Wide)
QAR01	Top Speaker
QCR637	Screw 3637
QMO11	Vibrator Motor
QCB11	Antenna Flex Cable (Blue)
QRU01	Charging Port Rubber
QIF01	Charging Port
QSP01	Bottom Speaker
QRE01	Rear Bracket
QVO01	Volume Button
QSM01	SIM Card Tray
QMP01	Main Board (PBA)
QFR01	Screen Module
QBA01	Battery
QME01	Main Flex Cable (Main Board to Charging Port)
QBC01	Back Cover
QFP01	Side Button (Fingerprint Recognition Sensor)
QUB01	Screen








Disassembly and Assembly



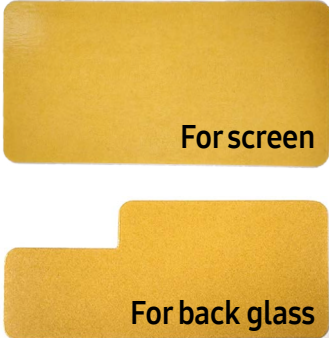
Tools for Disassembly and Assembly

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





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



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

Tool & Part Code	Image	Description
ESD Safe Mat	 A roll of grey anti-static mat with a black strap and yellow probes.	Prevents electrostatic damage (recommended)
Ejection Pin	 A blue metal pin with a looped handle.	Pin for ejecting the SIM card tray
Cross-head Screwdriver	 A black handle screwdriver with a silver shaft.	Tool for screwing in cross-head screws
Opening Pick	 A black, triangular-shaped pick.	Tool for disassembling the back cover, screen, and other parts
Opening Tool	 A long, thin, black rectangular tool.	Tool for disassembling the connector and other parts
Suction Cup	 Two suction cups: one red with a handle and one clear with a metal ring.	Tool for disassembling the back cover, screen, and other parts  For separable handle suction cups, be careful not to injure yourself as the handle can be parted during use.

Tool & Part Code	Image	Description
ESD Safe Tweezers and Round Tip Metal Tweezers		<p>Tool for handling connectors, cables, and other parts</p> <ul style="list-style-type: none"> ✍ • Because it is possible to damage parts or components when using sharp tweezers, use tweezers made with plastic or rubber material. • When removing a Vibrator Motor, it is required to use the round tip metal tweezers.
Heating Bag		<p>Tool for disassembling the back cover, screen, and other parts</p>
Acrylic Protective Cover for Broken Glass		<p>Prevents injuries and scattering caused by broken glass</p>














Tool & Part Code	Image	Description
Bottom Press Tray	 A black plastic tray with a central rectangular opening and a small white square at the bottom left corner.	<p>Tool for pressing the back cover, screen or battery</p> <p> You can choose the one side of the bottom press tray depending on the back cover, screen, or battery.</p>
Bottom Rubber Pad	 A black rectangular pad with four small white circular marks at the corners.	<p>Tool to press the back cover by placing into the bottom press tray</p>
Top Press Tray	 A black plastic tray with a central rectangular opening and a small white square at the bottom right corner.	<p>Tool to press the back cover, screen or battery by covering the bottom press tray</p>

Tool & Part Code	Image	Description
Top Rubber Pad		Tool to press the back cover, screen or battery by placing into the top press tray
Battery Rubber Pad		Tool to press the battery by placing into the bottom press tray.

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
Screw 3637	3		Screw for the main board (1 ea) Screws for the charging port (2 ea)
Screw 3532	16		Screws for the rear
Vibrator Motor Adhesive Tape	1		Double sided adhesive tape for attaching the vibrator motor to screen module
Top Speaker Adhesive Tape	1		Double sided adhesive tape for attaching the speaker to screen module

Item	Quantity	Image	Description
Screen Side Adhesive tape	1		<p>Double sided adhesive tape for attaching the sides of screen to metal frame</p> <p> This tape is only available when the screen itself is repaired.</p>
Screen Left Adhesive tape	1		<p>Double sided adhesive tape for attaching the left of screen to metal frame</p> <p> This tape is only available when the screen itself is repaired.</p>
Screen Right Adhesive tape	1		<p>Double sided adhesive tape for attaching the right of screen to metal frame</p> <p> This tape is only available when the screen itself is repaired.</p>

Disassembly and Reassembly for replacement



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

Before disassembling:

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

Before reassembling:


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

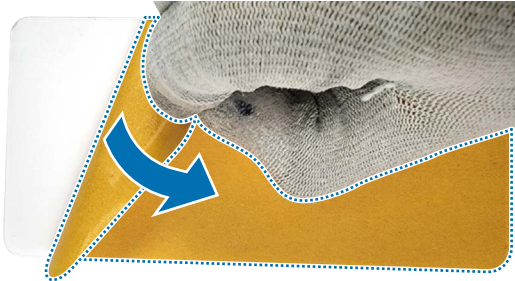
For all cases of broken glass:

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



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

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



- 5 Follow the disassembly steps in this guide.

SIM Card Tray

Disassembly

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




Reassembly

- ⚠ Leaving screws inside the device may damage internal components, such as the battery. When assembling, 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.




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.



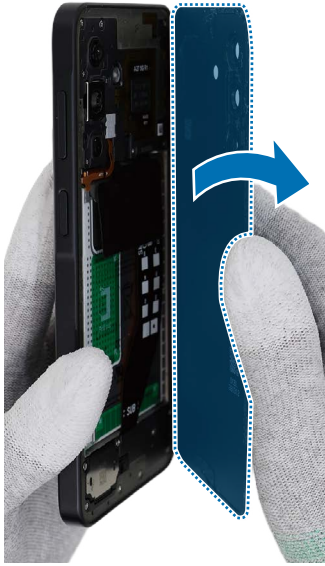
-  As the back cover can be damaged by excessive force, be careful not to damage the back cover.
- Be careful that the suction cup does not adhere to the area where the tape or sticker is attached.

 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.



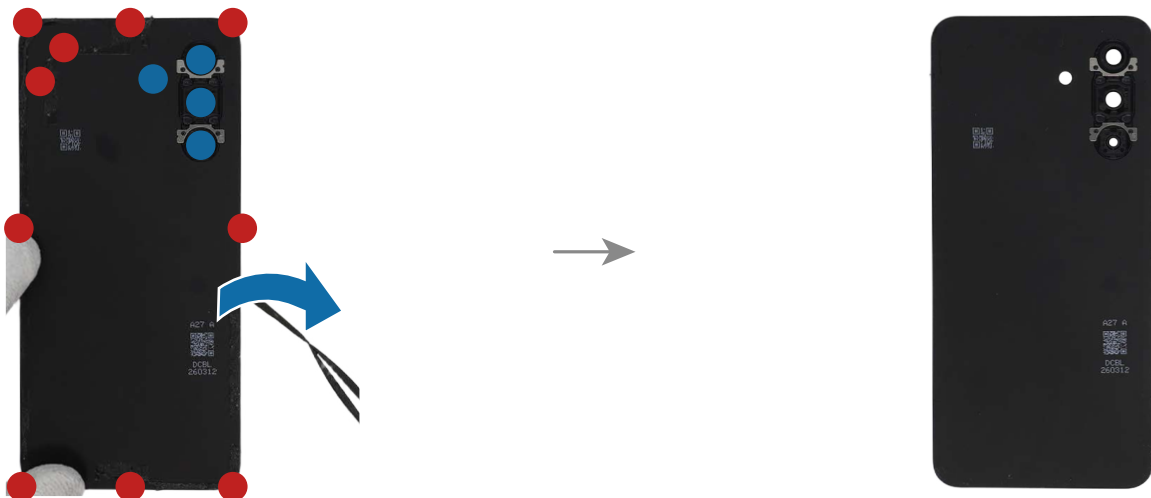
- 3 While pulling up the suction cup with strong, steady force to create the gap between the back cover and the metal frame, place the opening pick in the gap between the back cover and the metal frame and slide the opening pick back and forth along the edge to slice through the adhesive. Repeat this on all the 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.



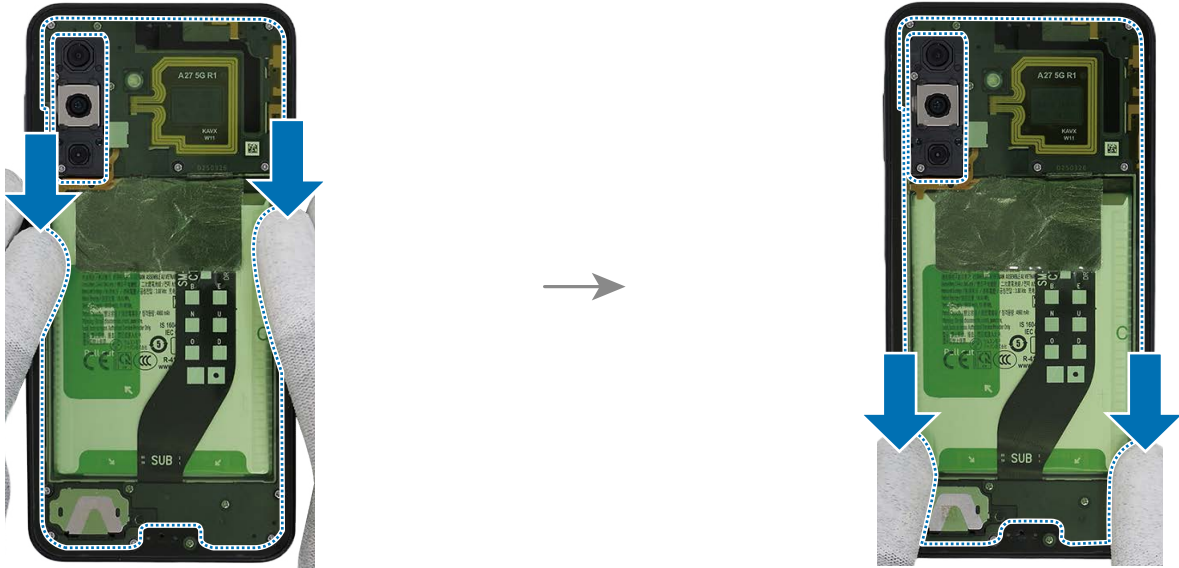


Reassembly

- ⚠ Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.
 - ⚠ Before attaching the back cover, make absolutely sure that there are no screws, miscellaneous parts, or other foreign objects on the inside of the device (among the battery, PBA, etc.).
- 1 Remove all adhesive tapes on the separated back cover (●) if you use the existing back cover as it is.
 - ⚠ 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're having trouble separating the adhesive.

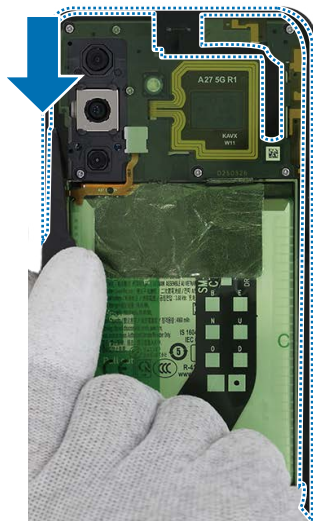


- 2 Remove the transparent film of the new back cover adhesive tape. Align the adhesive tape precisely on the rear bracket and attach it.

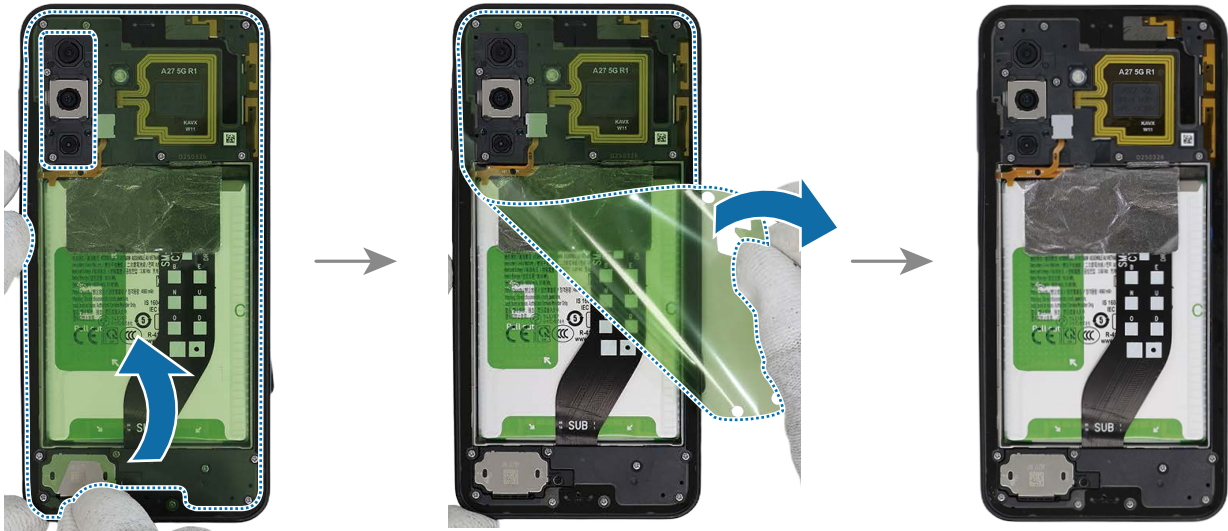


- 3 Using the tweezers, gently press along the edges to ensure a secure fit.


⚠ Make sure the tape is attached correctly.



- 4 Remove the release film of the adhesive tape by grabbing the film handle.



- 5 Attach the back cover and press down on the edges of the back cover. Check the gap between back cover and the frame.

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






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



- 7 If the press tray 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.
 - Availability of the bundle tool may vary depending on the country and are currently available only in limited countries.

Front Camera

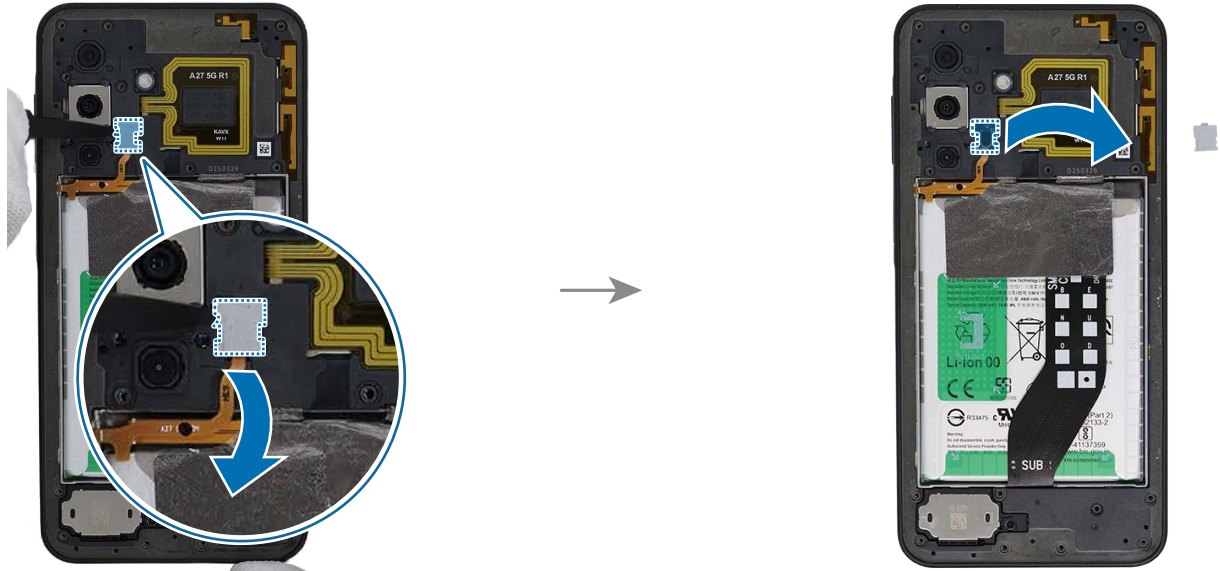
Disassembly

-  Remove the [SIM Card Tray](#) and [Back Cover](#) first before you begin.
- 1 Check the screws at the 16 different points on the rear and remove them using a cross-head screwdriver.
-  Be careful not to damage the near components.
-  Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



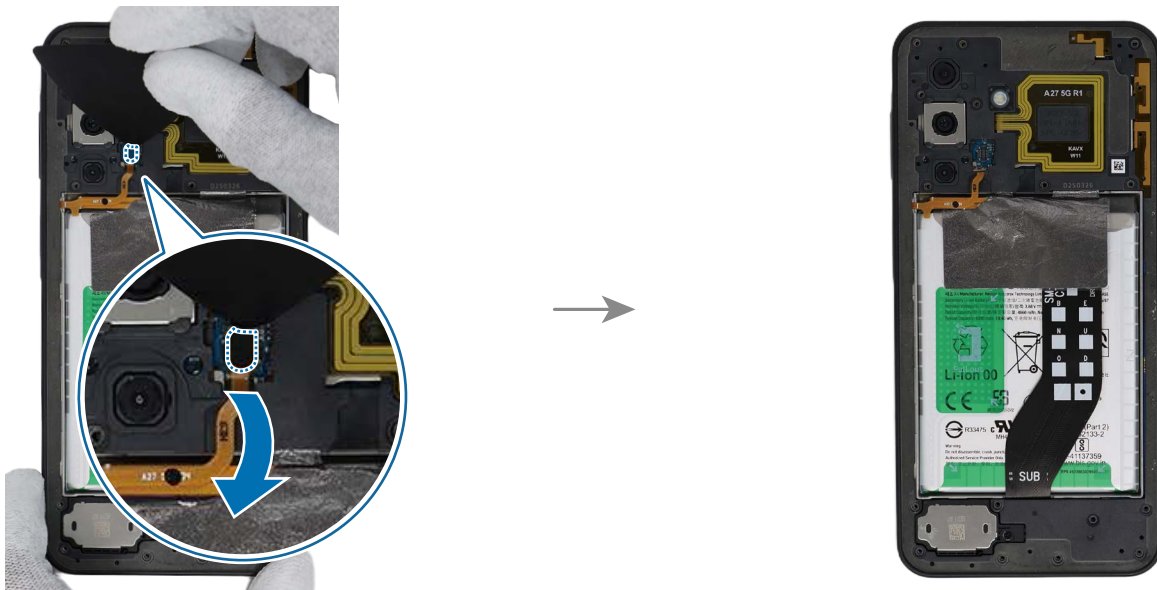
- Using the tweezers, disconnect the fingerprint recognition sensor connector cover and remove it completely.

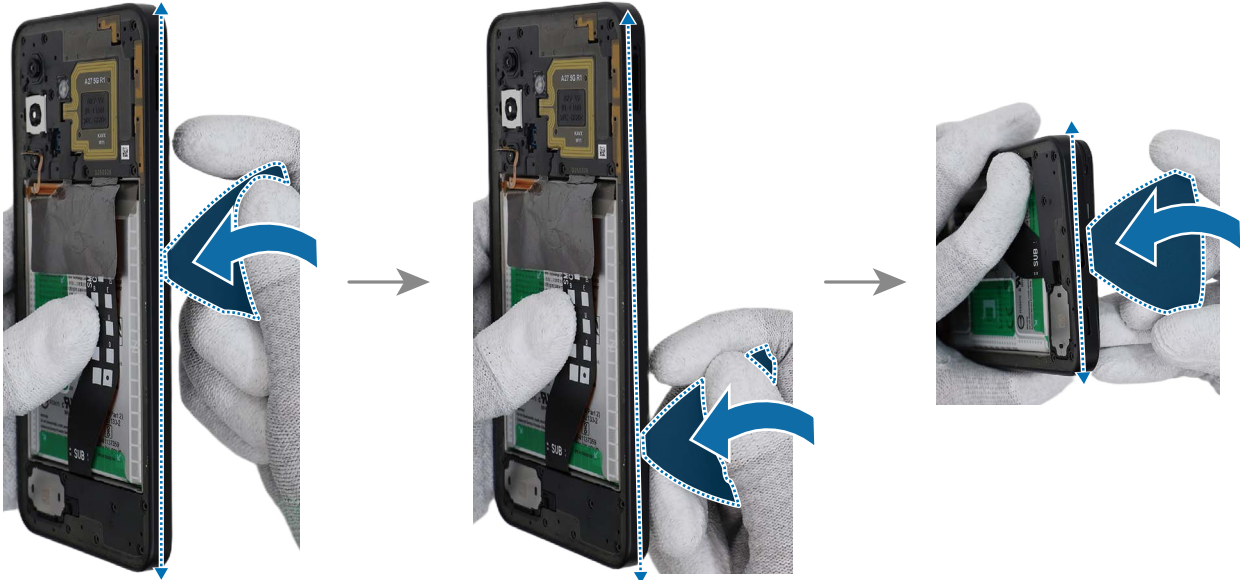
⚠ Be careful not to lose the connector cover.



3 Using the opening pick, separate the fingerprint recognition sensor connector from the main board. Insert the opening pick into the gap between the left edge of the bracket and the device module, then widen the gap by moving it along the edge. Carefully slide the opening pick around all sides to separate the bracket from the screen module. Once fully detached, slowly lift the bracket.

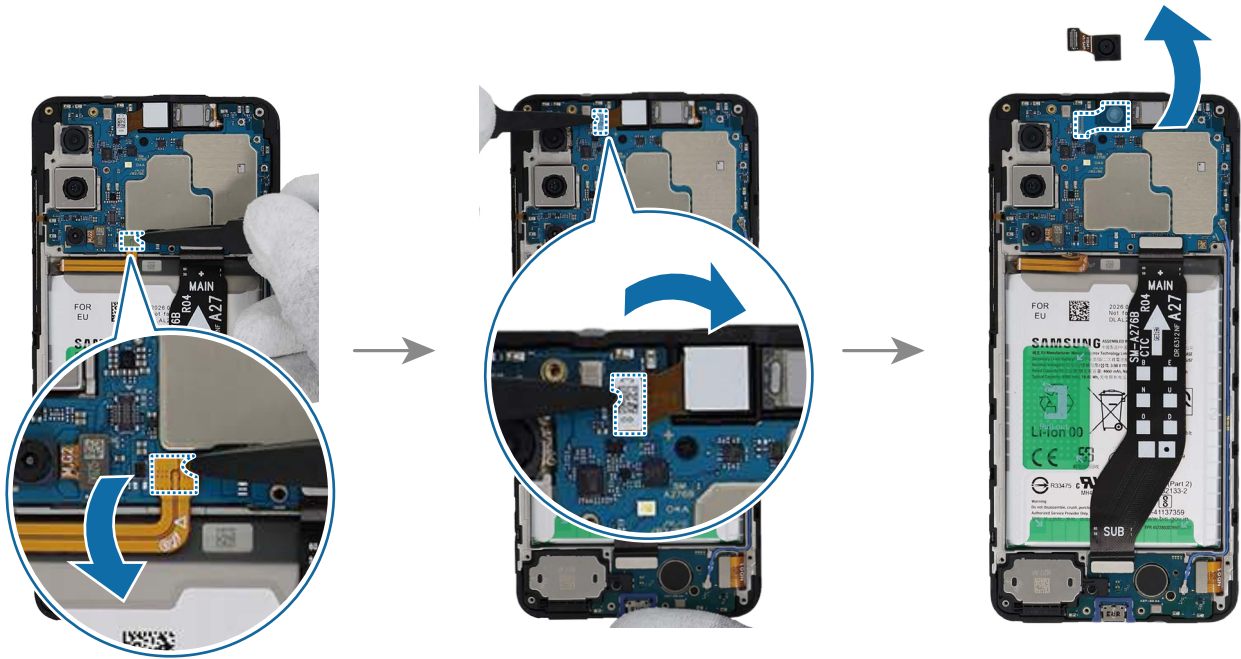
- ⚠ • Be careful not to damage the cable.
- As the bracket can be damaged by excessive force, be careful not to damage the bracket.





4 Using the tweezers, disconnect the battery connector first from the main board. Separate the front camera connector from the main board and remove the front camera carefully from the device. Leave the camera lens facing up.

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

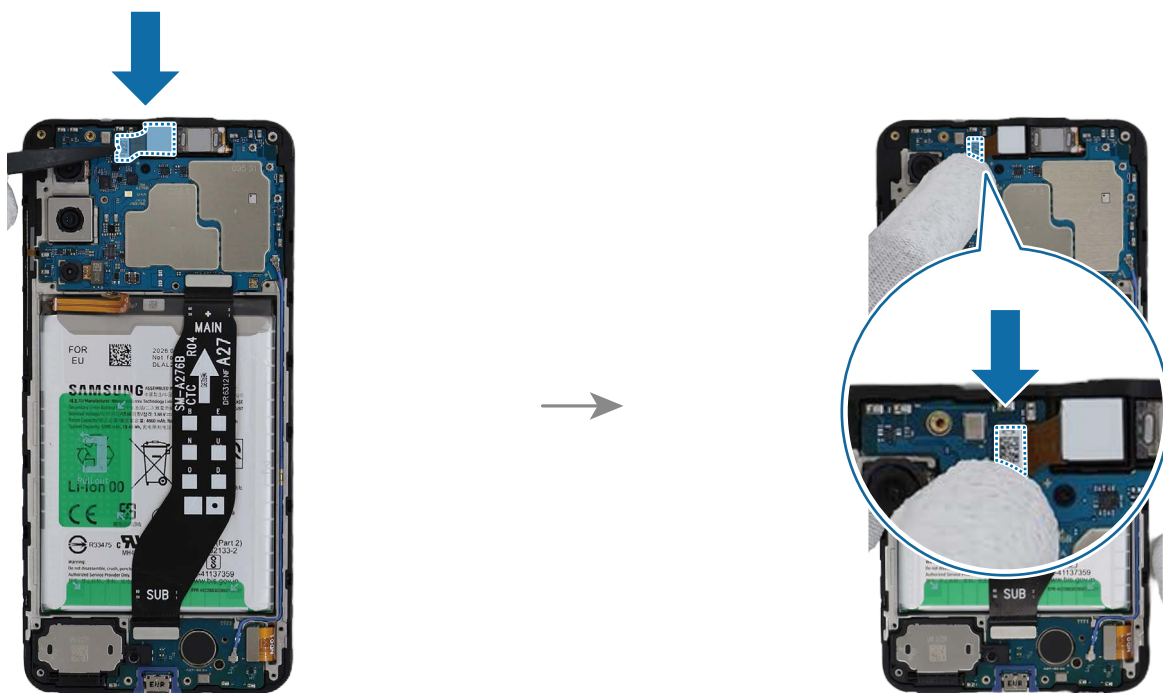


Reassembly


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

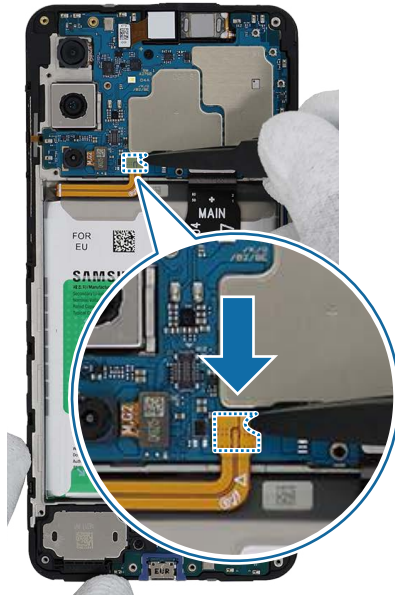
1 Using the tweezers or your fingers, place the new front camera in the camera hole so that the lens faces forward and gently insert. Then, connect the camera connector carefully on the main board.

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




2 Connect the battery connector to the main board.

 Be careful not to damage the battery.



3 Attach the rear bracket carefully from the bottom.

 As the bracket can be damaged by excessive force, be careful not to damage the bracket.

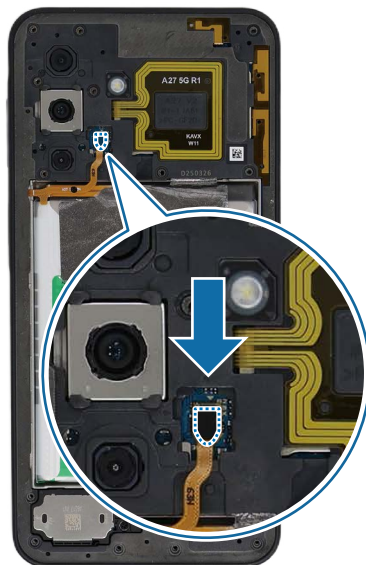


4 Push down all edges of the rear bracket with your fingers softly and evenly so that the rear bracket can be assembled perfectly.

⚠ Be careful not to damage the near components.

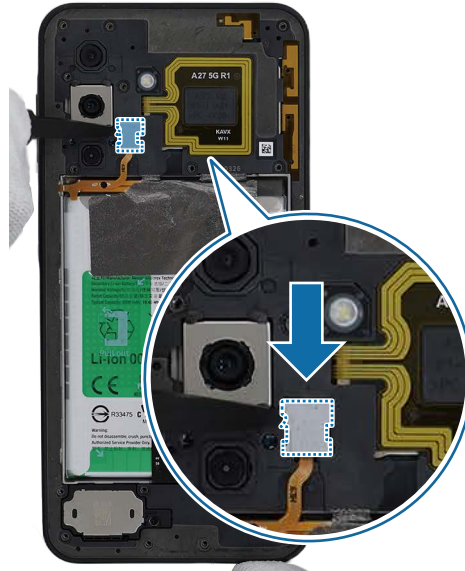


5 Using the tweezers, connect the fingerprint recognition sensor connector to the main board.



- 6 Using the tweezers or your fingers, position the fingerprint recognition sensor connector cover in the rear bracket hole and gently press it down to secure it in place.

⚠ Be careful not to damage the cable.

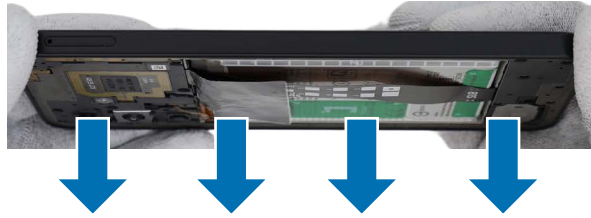


- 7 Check the screw 3532 (16 ea) at the 16 different points on the rear and fasten them using a cross-head screwdriver.

⚠ Be careful not to damage the near components.



- 8 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.



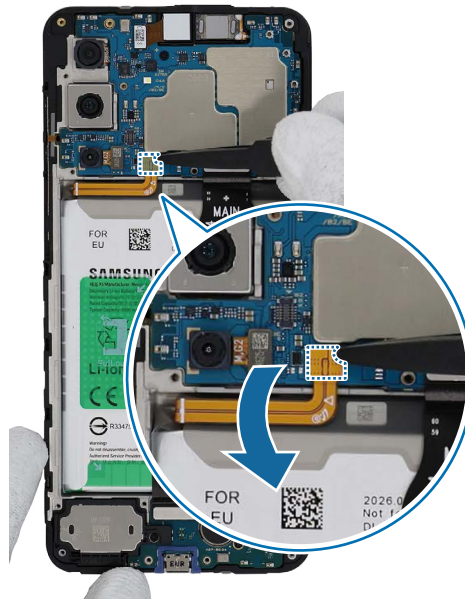
-  Reassemble the [Back Cover](#) and [SIM Card Tray](#) to complete assembly.

Rear Camera

Disassembly

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

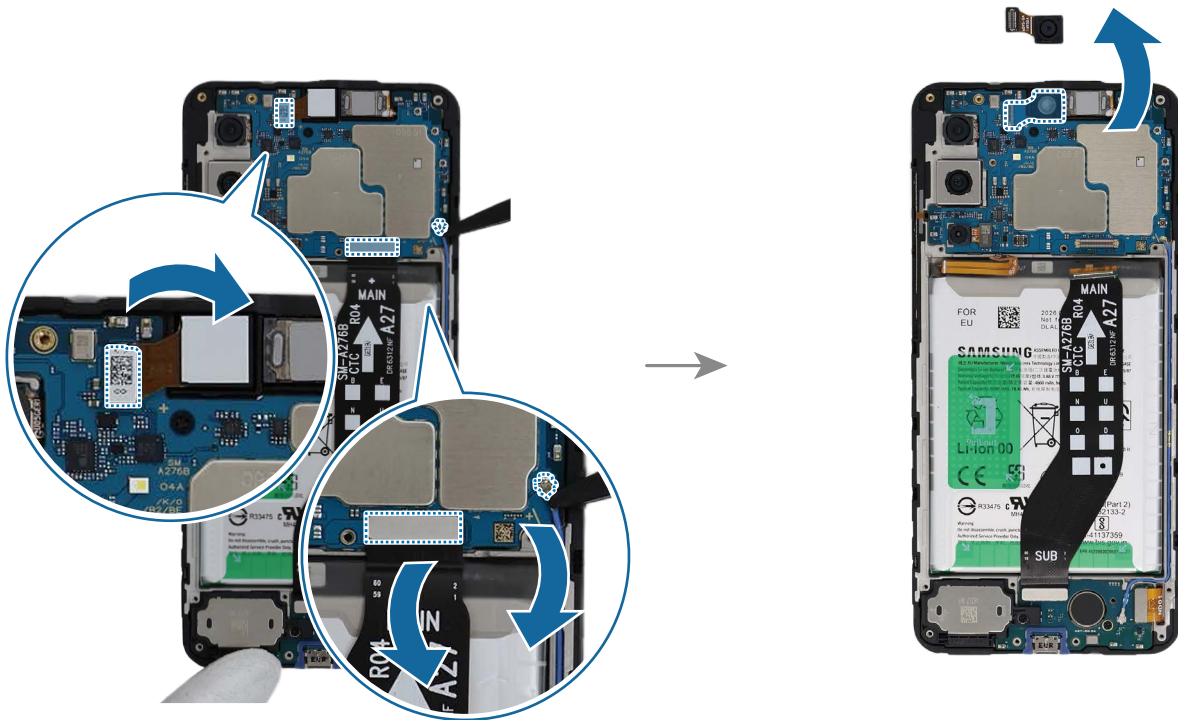
- 1 Check for the disassembly steps of the [Front Camera](#) and completely separate the battery connector.



2 Using the tweezers, disconnect the coaxial cable, front camera connector, and FPCB connector from the main board. And then, remove the front camera carefully from the device. Leave the camera lens facing up.



- Be careful not to damage the main board.
- Be careful not to touch the camera lens while removing the camera.



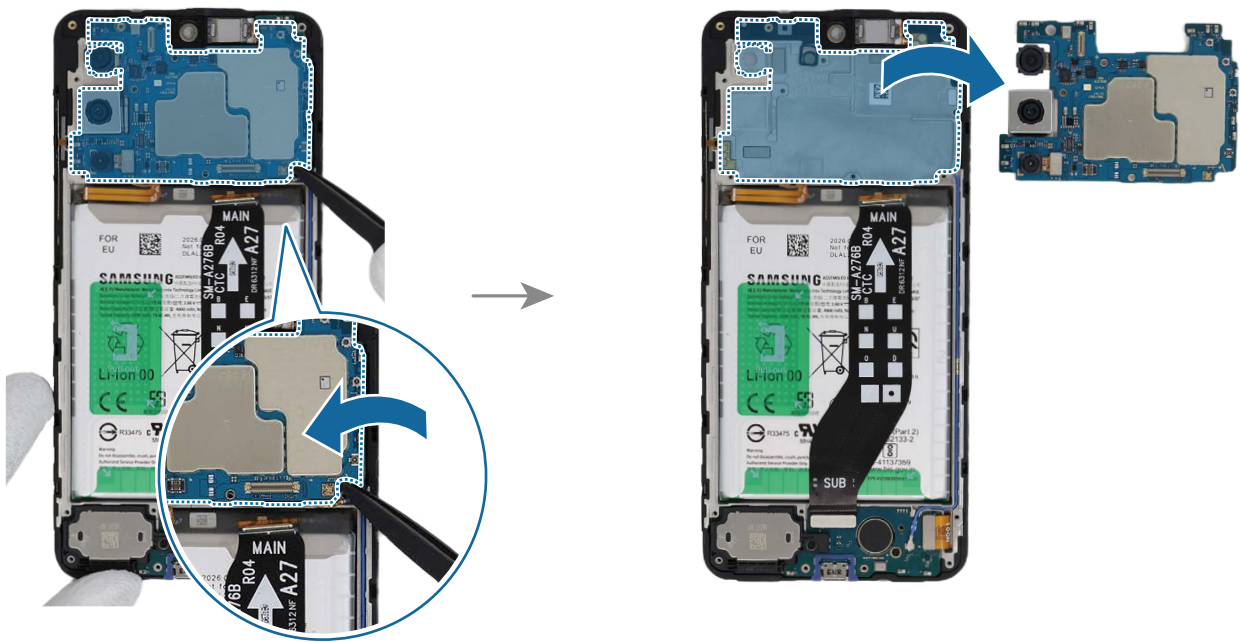
- 3 Check the 1 screw on the main board and remove it using a cross-head screwdriver.
- ⚠ Be careful not to damage the main board and near components.
 - 📝 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



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

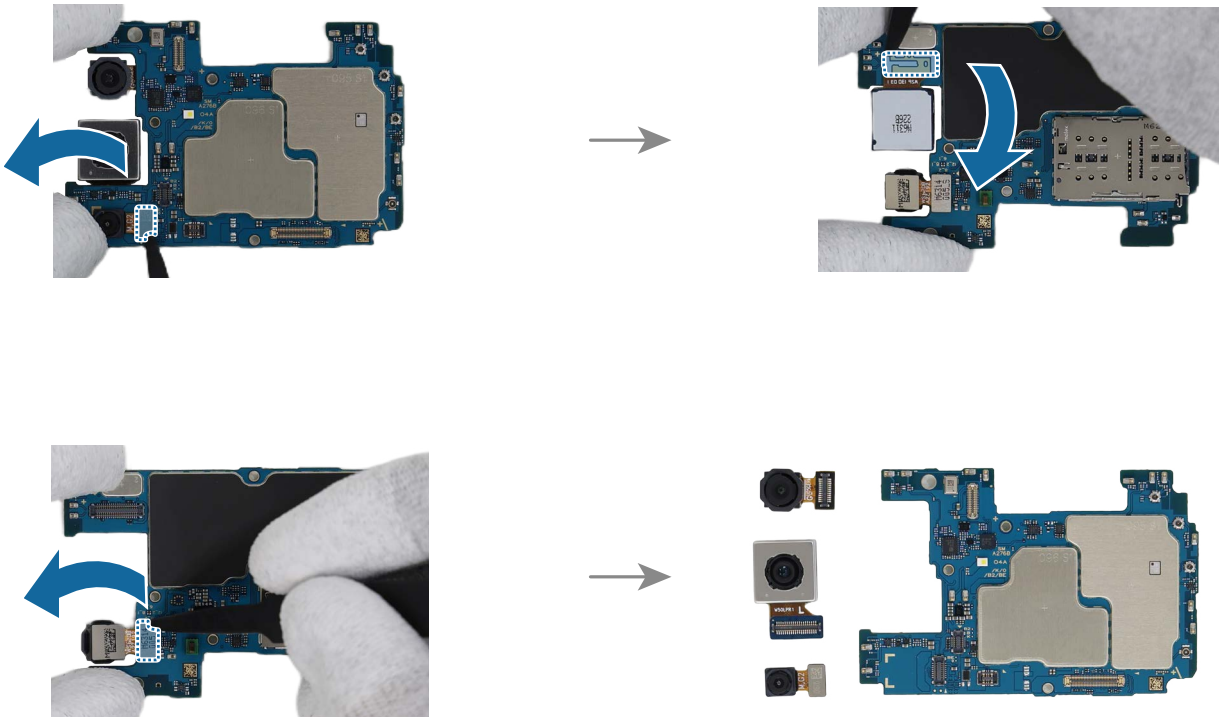
⚠ Be careful not to damage the battery.

⚠ The FPCB cables have to be positioned outside so as not to interfere when disassembling the main board.



5 Disconnect the rear camera connector from the main board using the tweezers, and remove the rear camera carefully from the main board. Leave the camera lens facing up.

- ⚠ Be careful not to damage the main board.
- Be careful not to touch the camera lens while removing the camera.
- 📝 Separate and replace only the problematic camera.

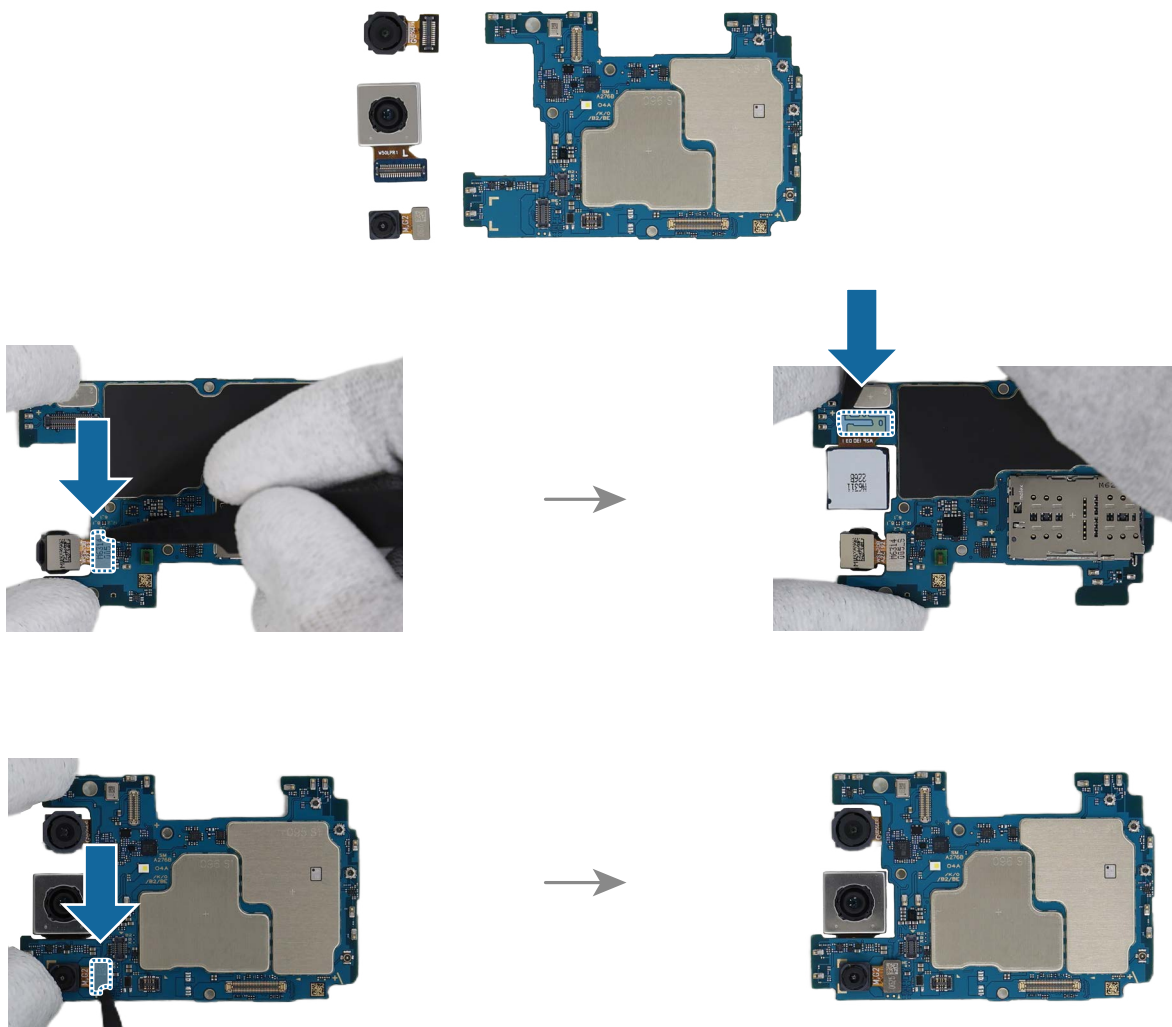


Reassembly


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


1 Using the tweezers, connect the rear camera connectors to the main board. Leave the camera lens facing up.

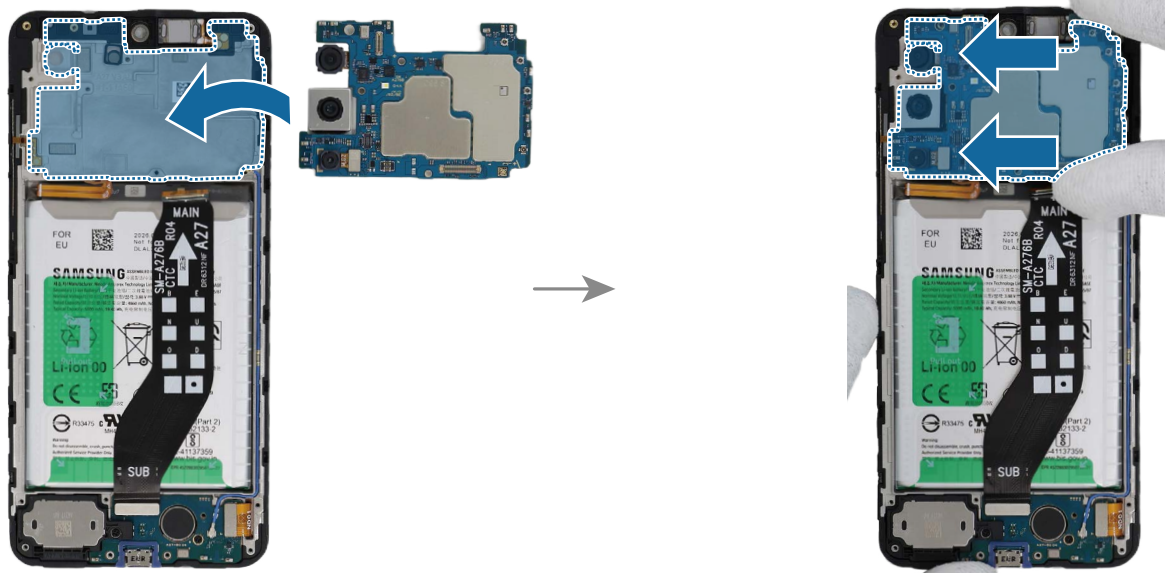
- ⚠ Be careful not to damage the camera lens and the near components.
- Be careful not to damage the main board.




2 Align the main board onto the device frame. After attaching the left part of the main board on the metal frame, assemble the right part.

 Be careful not to damage the battery.

 The FPCB cables and coaxial cable have to be positioned outside so as not to interfere when assembling the main board.



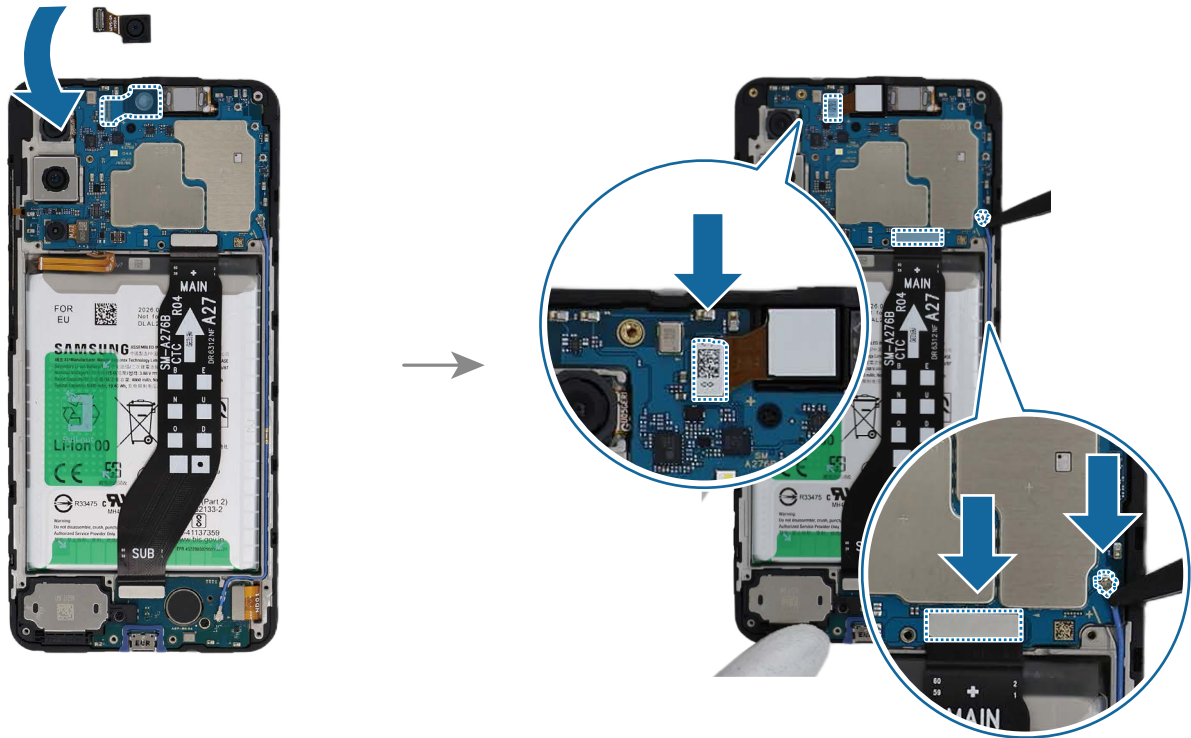
3 Check the screw 3637 (1 ea) on the main board and fasten it using a cross-head screwdriver.

 Be careful not to damage the near components.



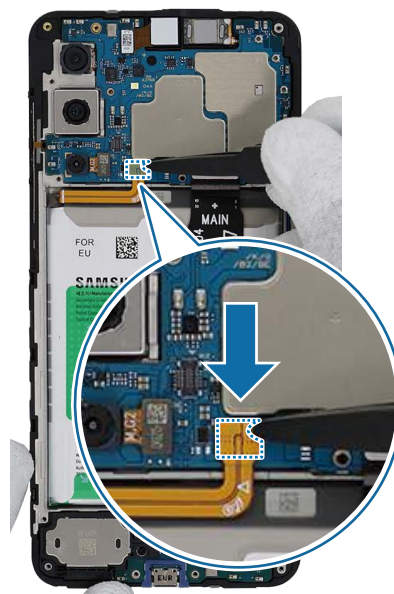
4 Using the tweezers or your fingers, place the front camera in the camera hole so that the lens faces forward and gently insert. Then, connect 3 connectors carefully on the main board.

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



5 Connect the battery connector to the main board.

- ⚠ Be careful not to damage the battery.



- 6 Check for the reassembly steps of the [Front Camera](#) and completely reassemble the bracket.




- 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](#) and [SIM Card Tray](#) to complete assembly.

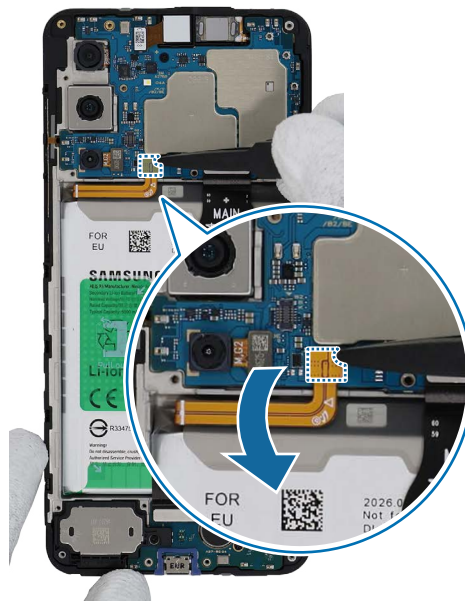
Charging Port and Microphone

 The microphone is built into the charging port module.

Disassembly

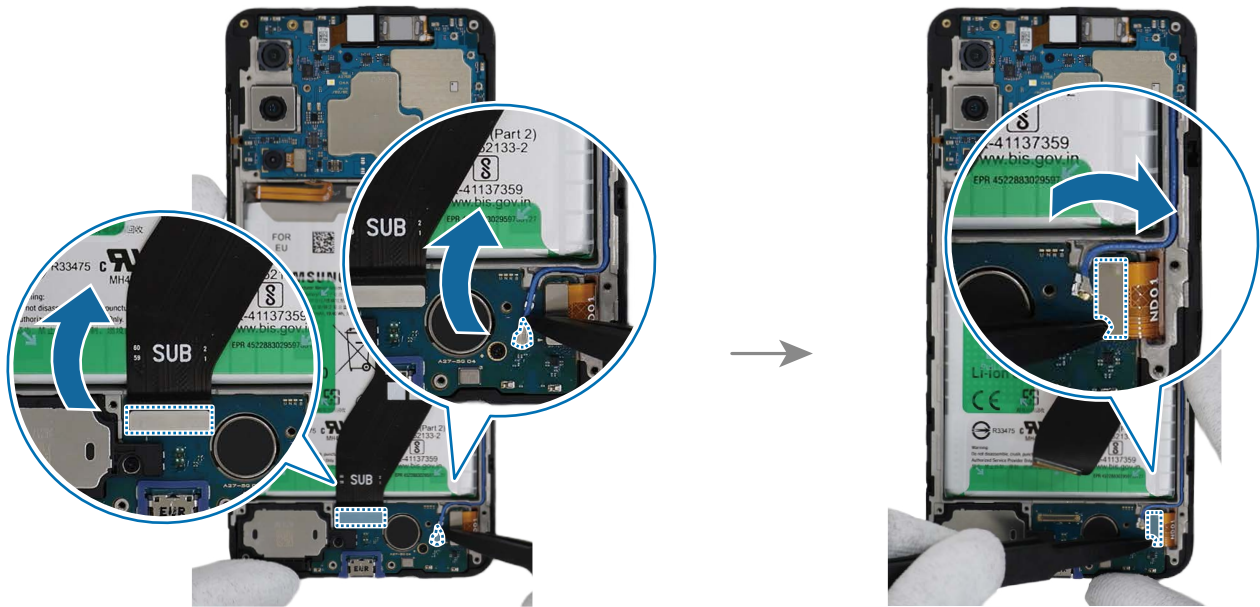
 Remove the [SIM Card Tray](#) and [Back Cover](#) first before you begin.

- 1 Check for the disassembly steps of the [Front Camera](#) and completely separate the battery connector.



2 Using the tweezers, disconnect the coaxial cable, display connector, and FPCB connector from the charging port module.

⚠ Be careful not to damage the charging port module.



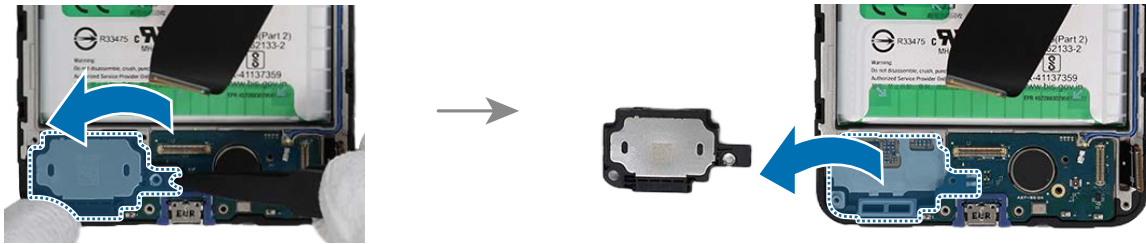
3 Check the screws at the 2 different points and remove them using a cross-head screwdriver.

⚠ Be careful not to damage the near components.

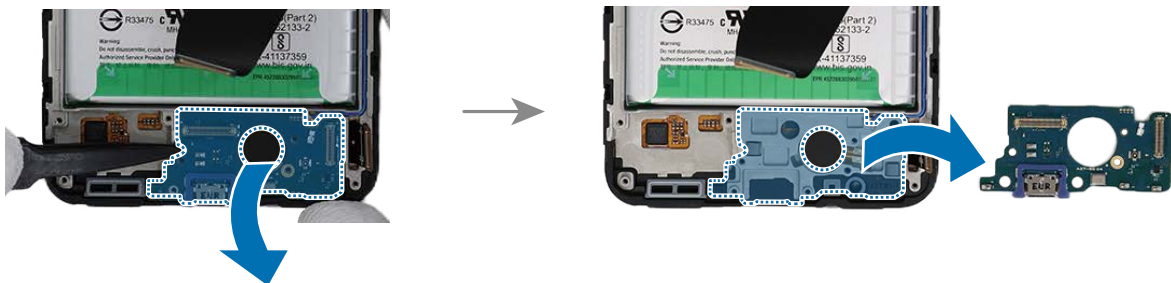
✓ Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.




- Using the tweezers, lift up on the separator groove of the bottom speaker and remove it carefully.

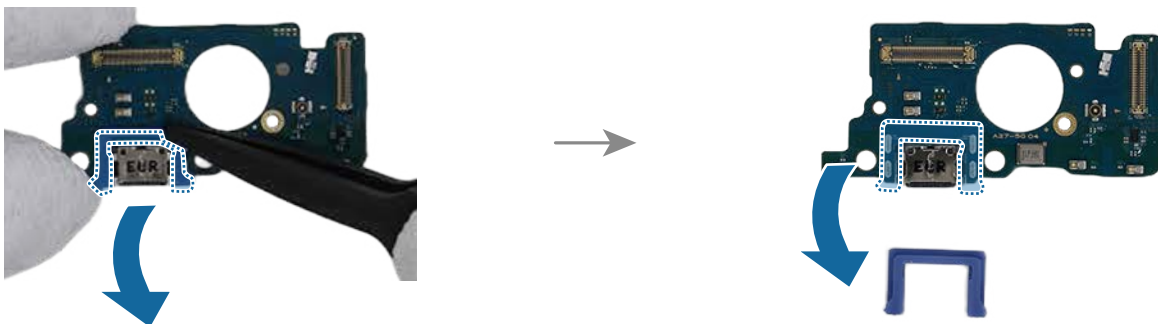


- And then, lift up on the separator groove of the charging port module and remove it carefully.



- Using tweezers, separate the charging port rubber carefully from the charging port module.

-  The charging port rubber should be used again when reassembling, so be careful not to lose it.

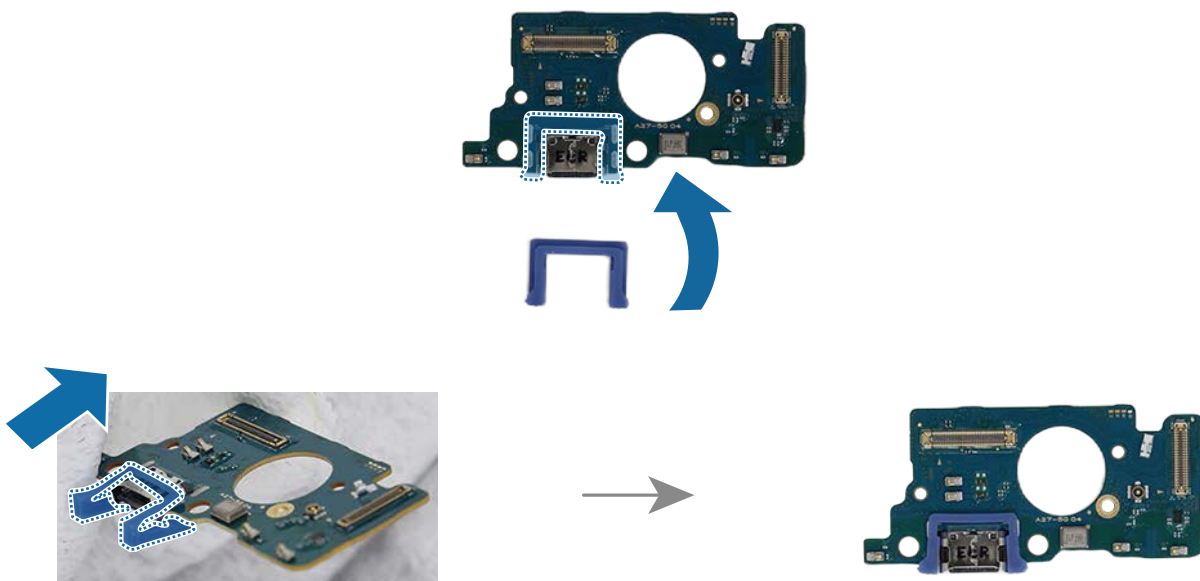


Reassembly

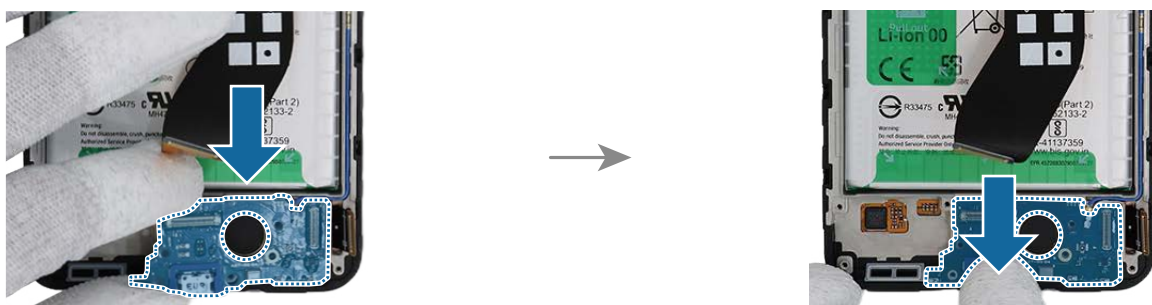
⚠ Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

1 Using tweezers, assemble the charging port rubber carefully from the new charging port module.

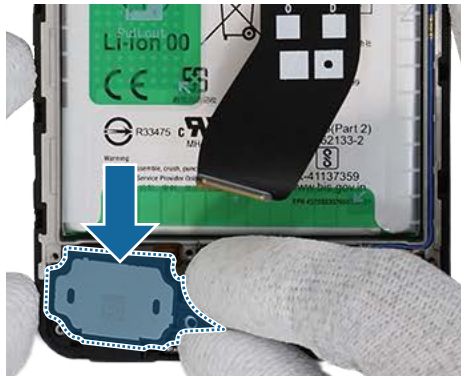
⚠ Be careful not to damage the charging port.



2 Using the tweezers or your fingers, insert the new charging port module to the bottom metal frame of the device and press down on it in its position smoothly.



- 3 And then, insert the bottom speaker to the bottom metal frame of the device and press down on it in its position smoothly.



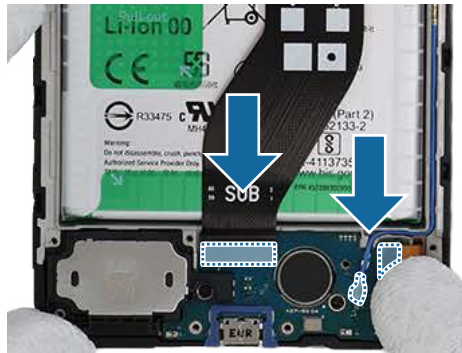
- 4 Check the screw 3637 (2 ea) at the 2 different points on the charging port module and fasten them using a cross-head screwdriver.

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



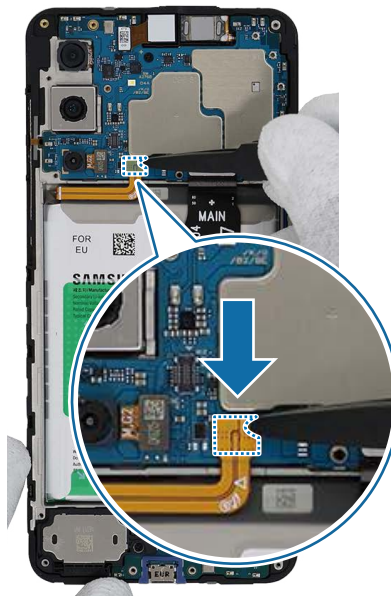
5 Using the tweezers or your fingers, connect the 3 connectors to the charging port.

⚠ Be careful not to damage the charging port.



6 Connect the battery connector to the main board.

⚠ Be careful not to damage the battery.



- 7 Check for the reassembly steps of the [Front Camera](#) and completely reassemble the bracket.




- 8 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.

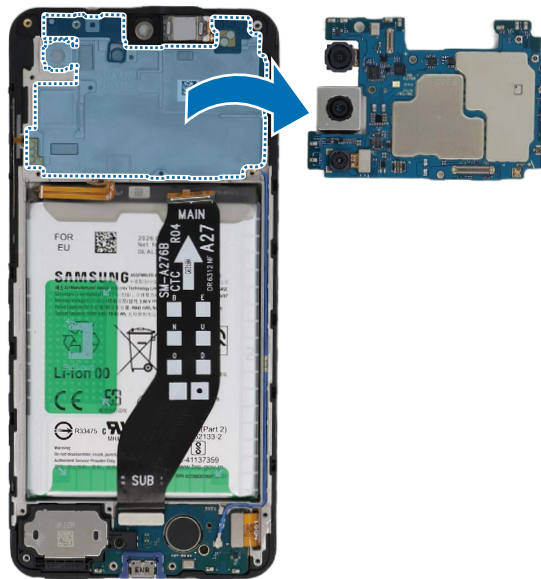
Top Speaker

-  The top speaker is already built into the screen module. Disassemble the speaker only if the speaker itself requires repairs.

Disassembly

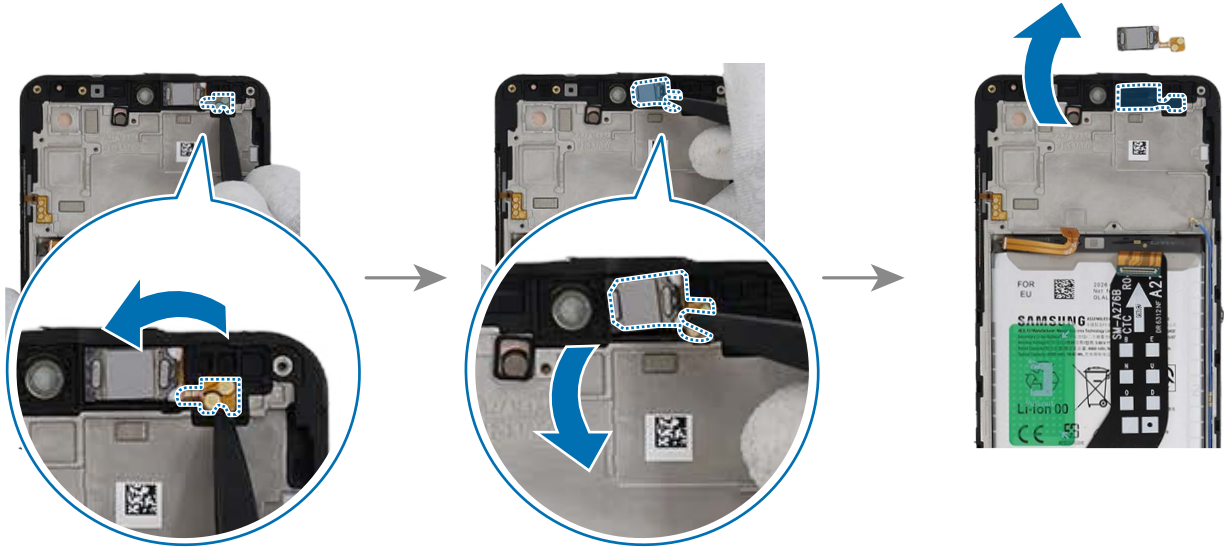
-  Remove the [SIM Card Tray](#) and [Back Cover](#) first before you begin.

- 1 Check for the disassembly steps of the [Rear Camera](#) and completely separate up to the main board module.




2 Using the tweezers, lift up on the separator groove of the speaker on the screen module and remove it carefully.


⚠ Be careful not to damage the speaker.

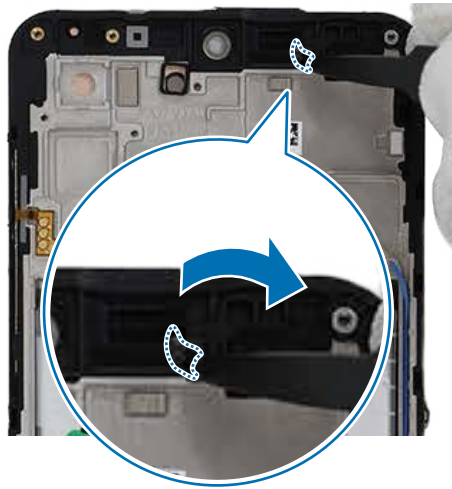


Reassembly

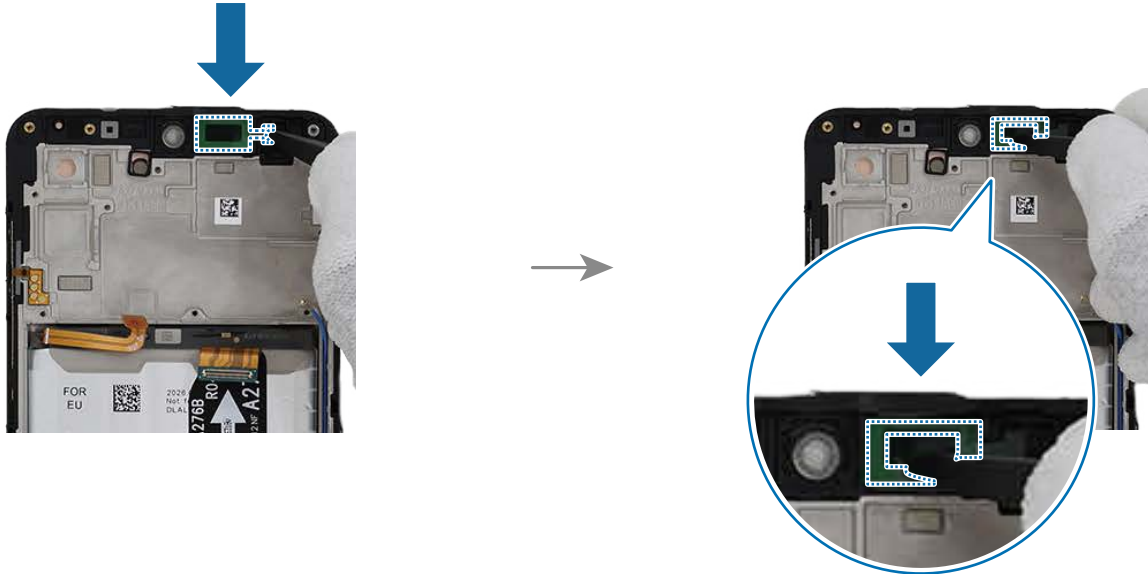
 Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

1 Using the tweezers, remove adhesive tape from where the top speaker was attached.

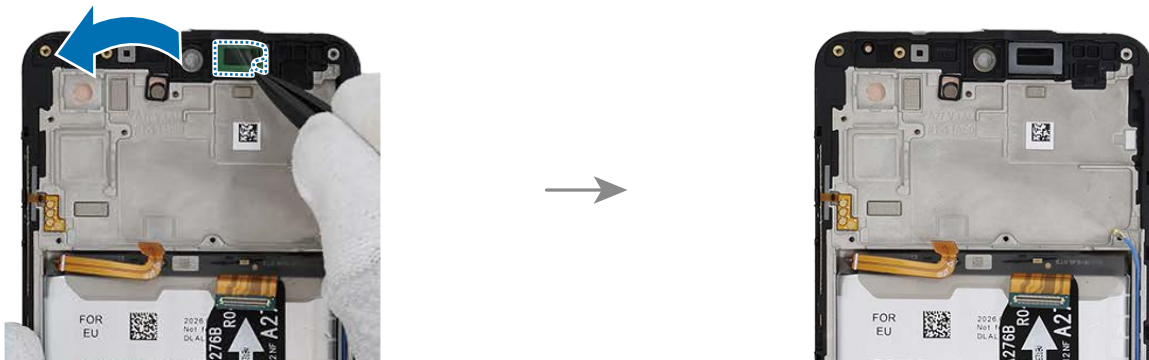
-  • Make sure to remove any residual tapes attached to the position of the separated speaker before reassembling the new speaker.
- Be careful not to damage the near components.



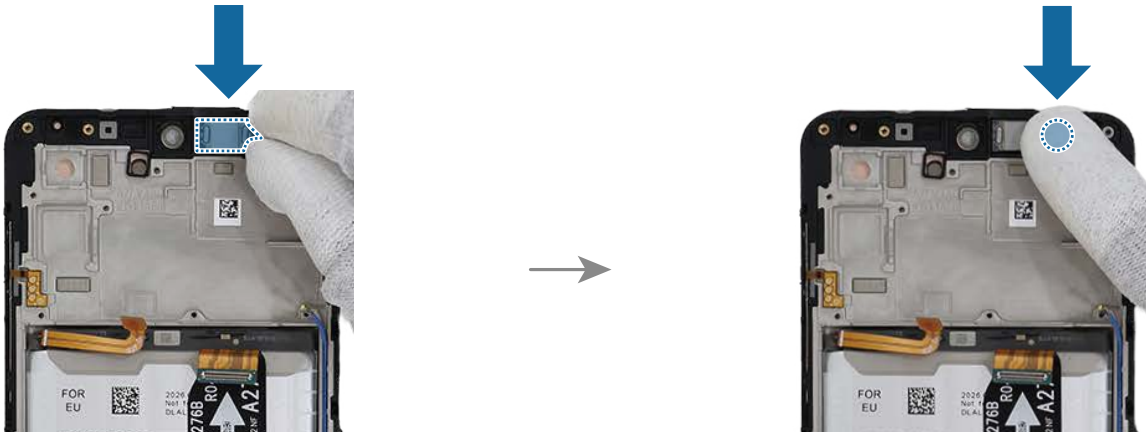
- Using the tweezers, remove the release film of a new top speaker adhesive tape. Align the outside shape of the tape with the top speaker position and attach it accurately. Gently press down the tape with the tweezers so that the tape can be attached well.



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



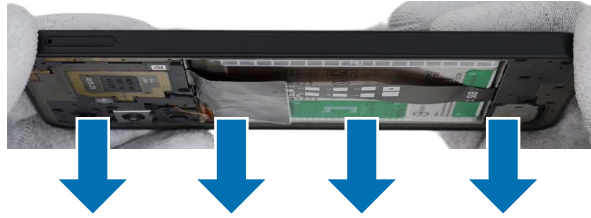
- Remove the release film from the new top speaker and assemble the speaker to the exact position of the screen module. Press the top speaker with your fingers softly so that the speaker can be assembled well.



- Check for the reassembly steps of the [Front Camera](#) and completely reassemble the bracket.



- 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.

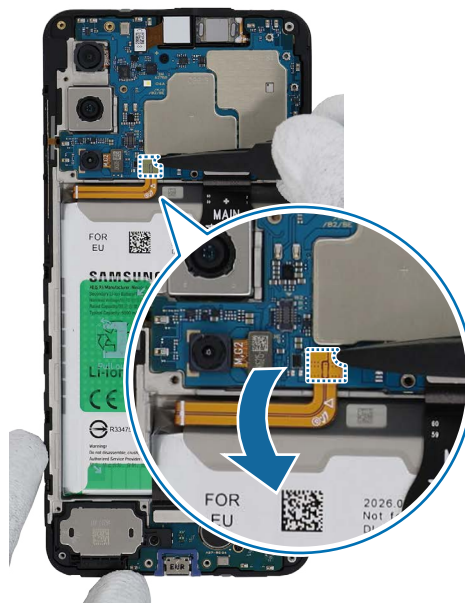
Bottom Speaker

- ✎ The bottom speaker is already built into the screen module. Disassemble the speaker only if the speaker itself requires repairs.

Disassembly

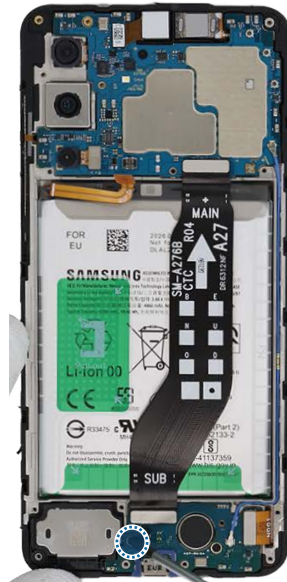
- ✎ Remove the [SIM Card Tray](#) and [Back Cover](#) first before you begin.

- 1 Check for the disassembly steps of the [Front Camera](#) and completely separate the battery connector.



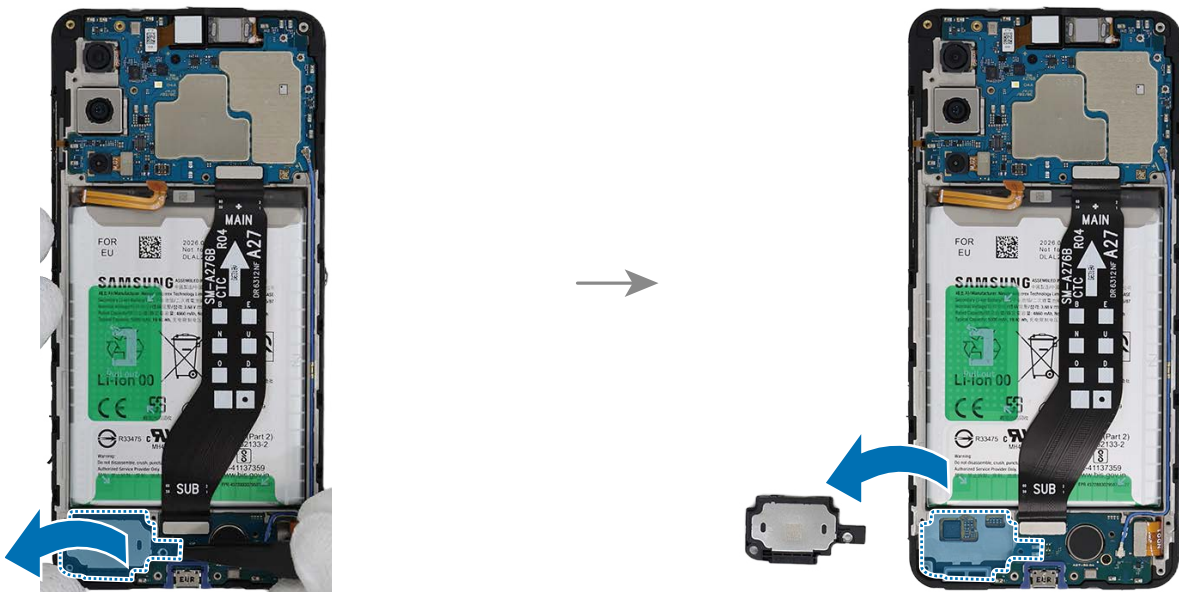
2 Check the 1 screw on the bottom speaker and remove it using a cross-head screwdriver.

- ⚠ 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.



3 Using the tweezers, lift up on the separator groove of the bottom speaker and remove it carefully.

- ⚠ Be careful not to damage the near components.

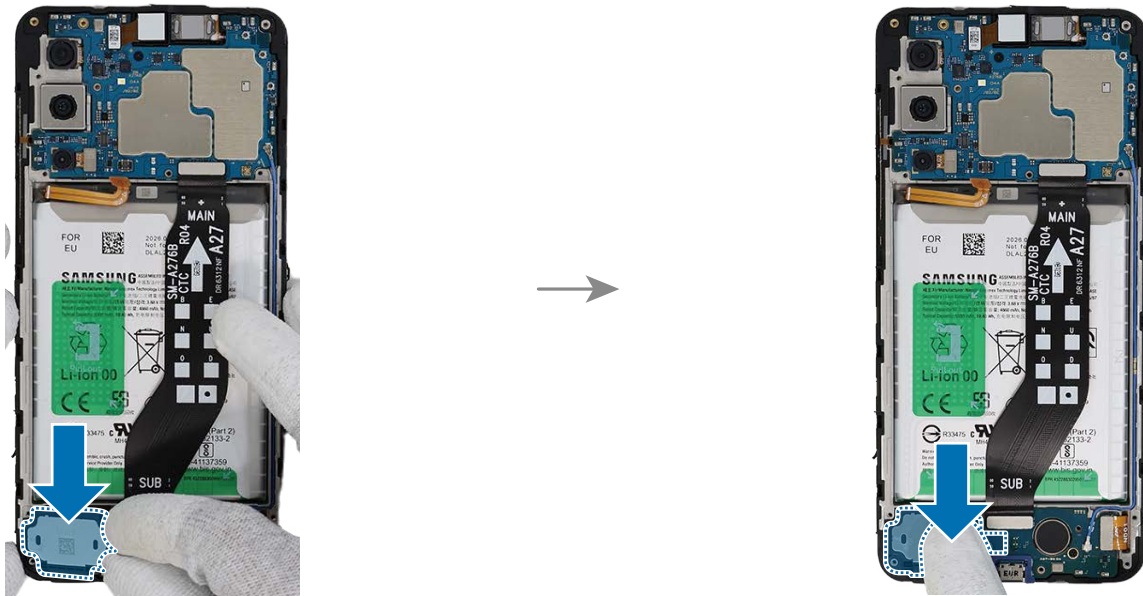


Reassembly

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

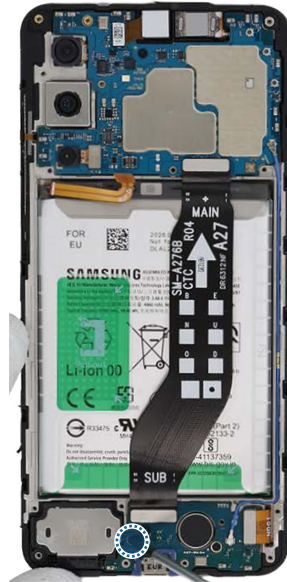
1 Using the tweezers or your fingers, position the new bottom speaker in the correct location and gently press it down to secure it in place.

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



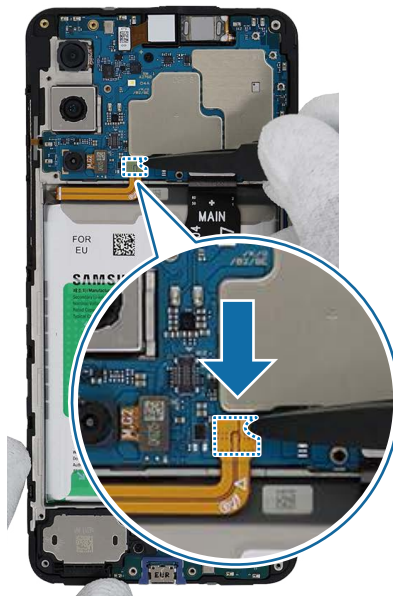
2 Check the screw 3637 (1 ea) on the bottom speaker and fasten it using a cross-head screwdriver.

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



3 Connect the battery connector to the main board.

⚠ Be careful not to damage the battery.



- 4 Check for the reassembly steps of the [Front Camera](#) and completely reassemble the bracket.



- 5 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.



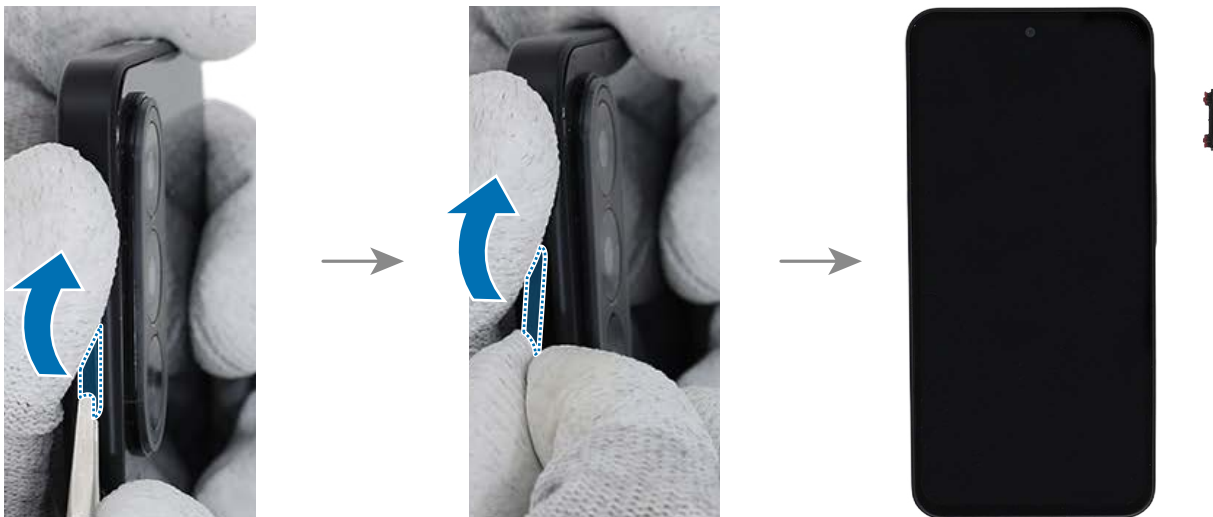
-  Reassemble the [Back Cover](#) and [SIM Card Tray](#) to complete assembly.

Volume Button


Disassembly

To remove the Volume button, lightly press one end of the button with your fingers so that the other end protrudes. Push the tip of the protruding button up carefully with a 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 a tweezers, be very 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. When assembling, 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.



Side Button (Fingerprint Recognition Sensor)

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

Disassembly

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

- 1 Check for the disassembly steps of the [Front Camera](#) and completely separate the bracket.




- Using the tweezers, grab the rubber for Side button module and separate each end of it carefully. Using your fingers, grab the Side button module and separate it from the rear bracket.


⚠ Be careful not to damage or scratch the bracket.

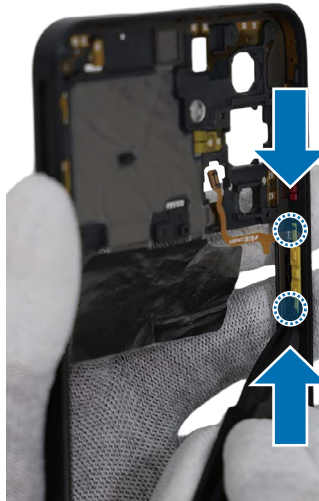


Reassembly

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

1 Remove the release film from new side button module. Using the tweezers, grab the side button module and insert it to the rear bracket carefully. Using the tweezers, grab the rubber for side button module and assemble each end of it exactly to the rear bracket.

-  Be careful not to damage or scratch the bracket.
- Be careful not to damage the buttons.



- 2 Check for the reassembly steps of the [Front Camera](#) and completely reassemble the bracket.



- 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](#) and [SIM Card Tray](#) to complete assembly.

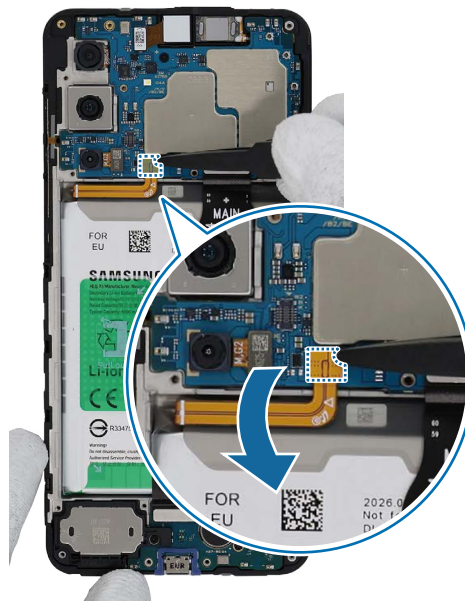
Screen Module

 The screen module consists of the screen, speaker, and battery.

Disassembly

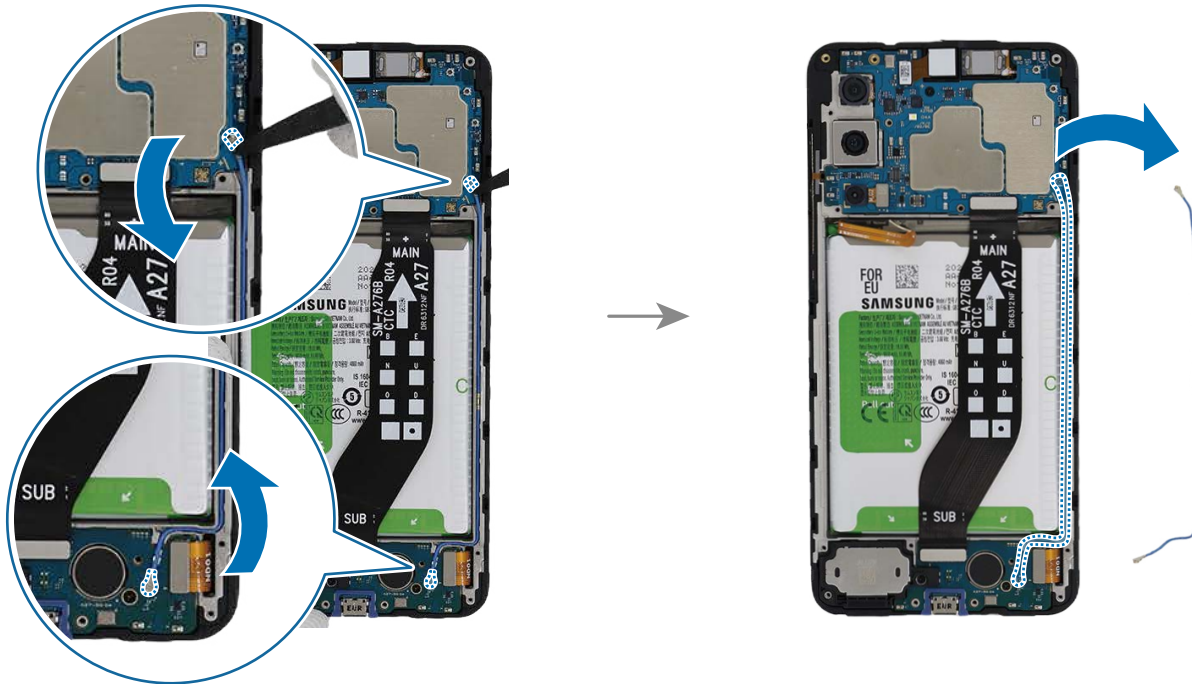
 Remove the [SIM Card Tray](#) and [Back Cover](#) first before you begin.

- 1 Check for the disassembly steps of the [Front Camera](#) and completely separate the battery connector.

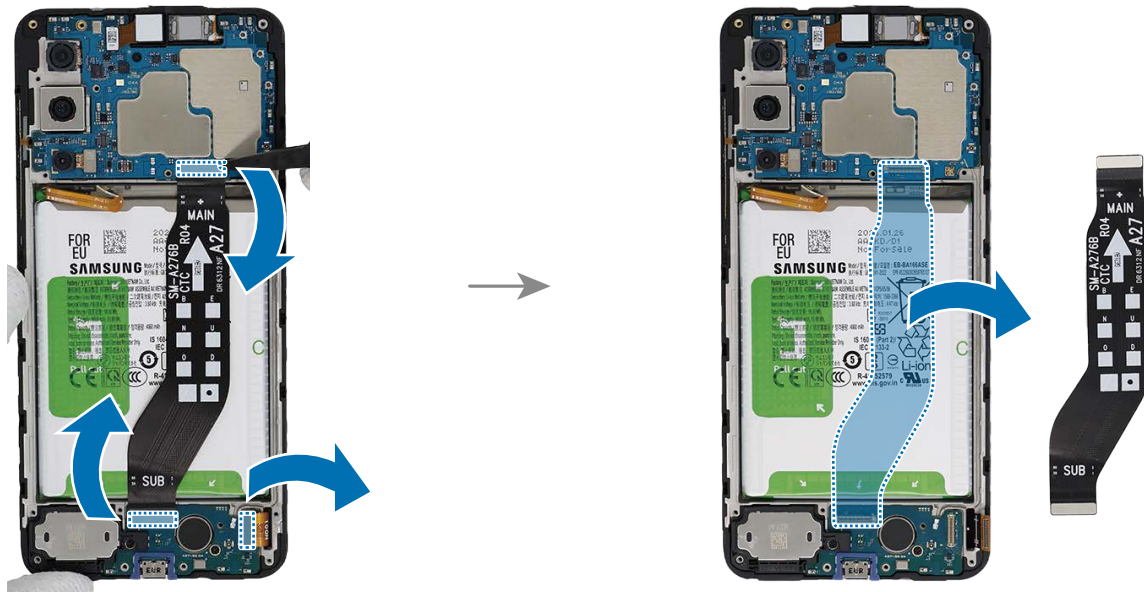


2 Using the tweezers, disconnect the 2 connectors from the device and remove the coaxial cable completely.

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

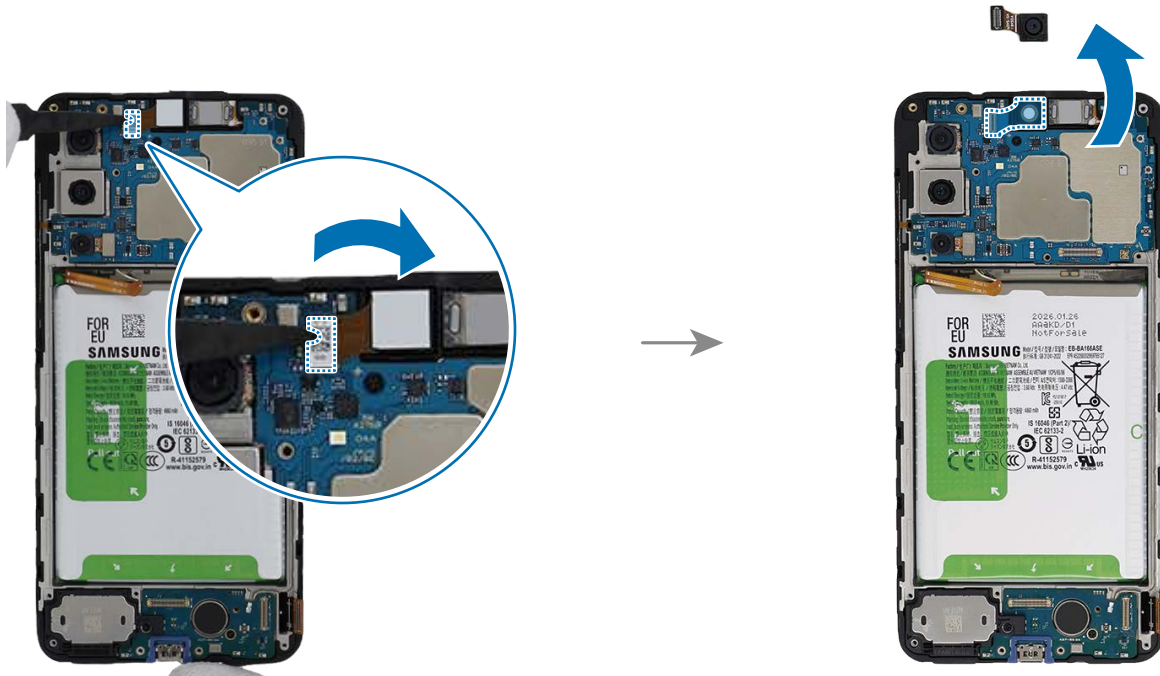


3 Using the tweezers, disconnect the 3 connectors and remove the flex cable completely.



- Using the tweezers, separate the front camera connector from the main board and remove the front camera carefully from the device. Leave the camera lens facing up.

⚠ Be careful not to touch the camera lens while removing the camera.



- Check the 1 screw on the main board and remove it using a cross-head screwdriver.

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

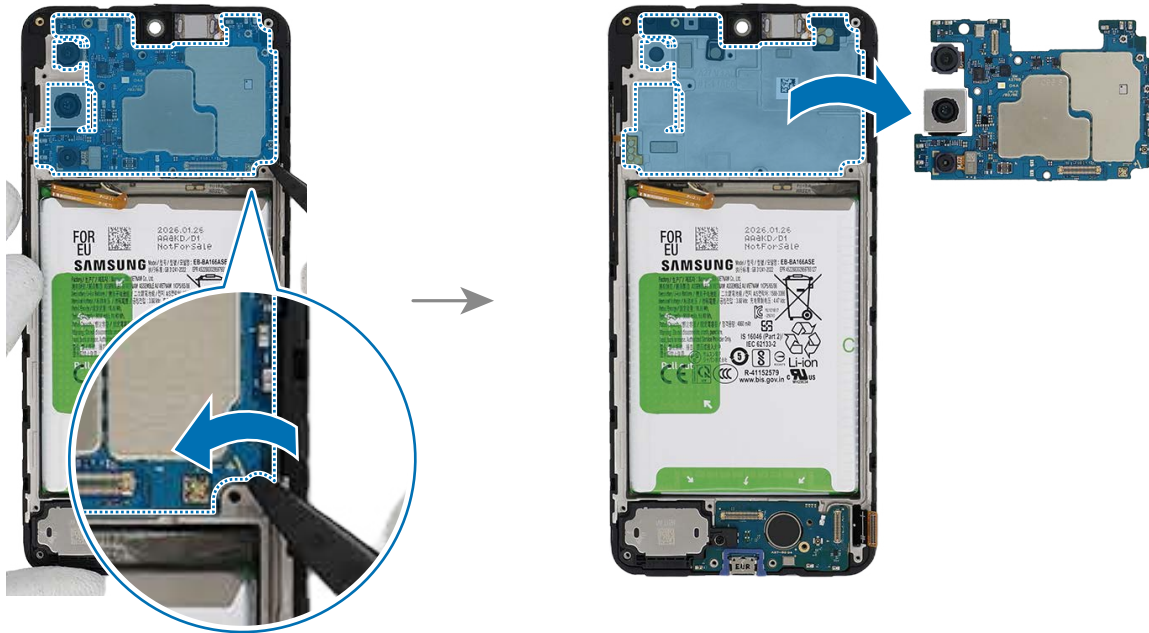
✓ Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



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

⚠ Be careful not to damage the battery.

⚠ The FPCB cables have to be positioned outside so as not to interfere when disassembling the main board.



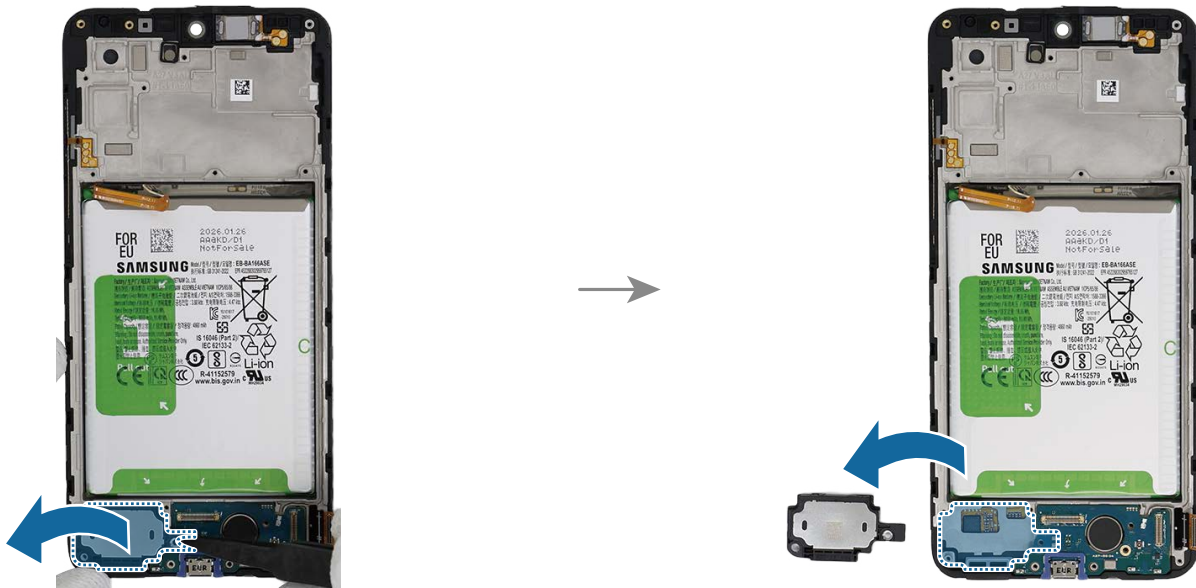
7 Check the screws at the 2 different points and remove them using a cross-head screwdriver.

⚠ Be careful not to damage the near components.

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



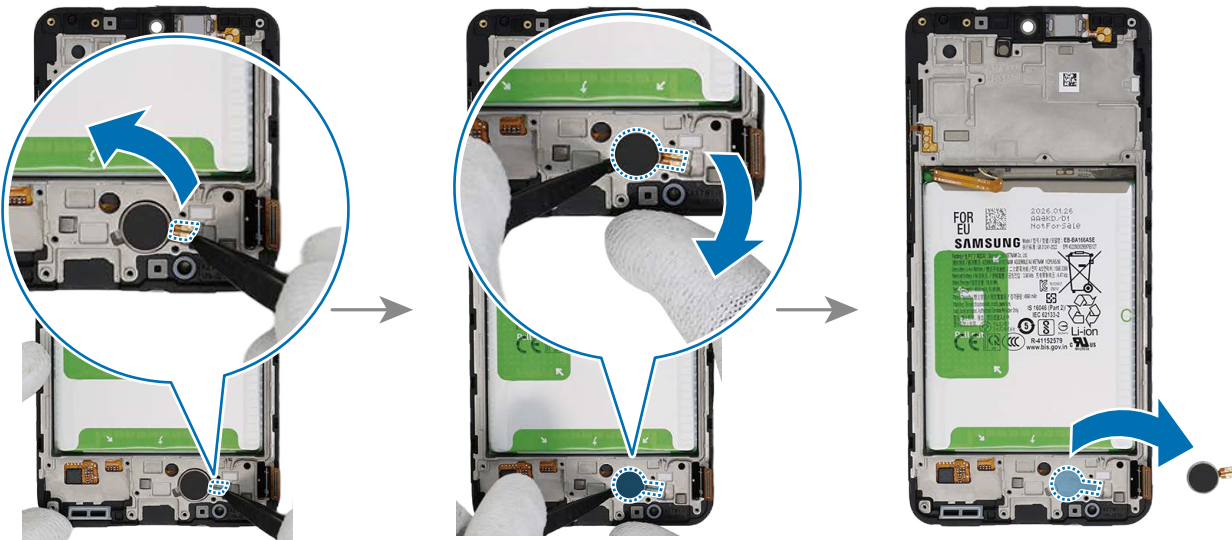
- 8 Using the tweezers, lift up on the separator groove of the bottom speaker and remove it carefully.




- 9 And then, lift up on the separator groove of the charging port module and remove it carefully.



10 Lastly, lift up on the separator groove of the vibrator motor and remove it carefully.



Reassembly

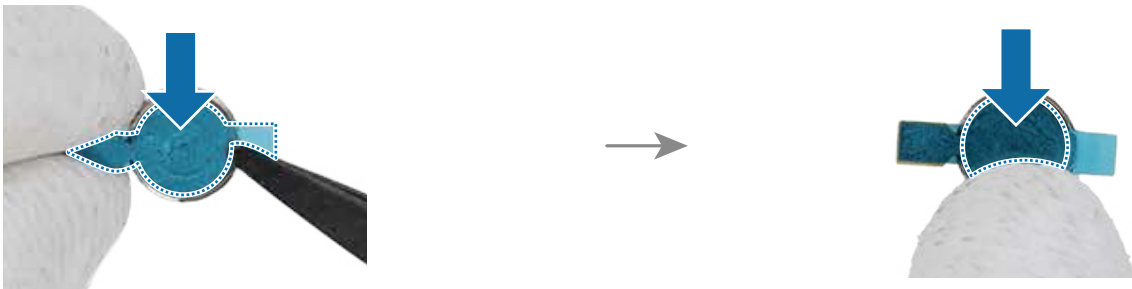
 Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

1 Remove the adhesive tape on the bottom of the vibrator motor.

 Be careful not to damage the vibrator motor.



2 Remove the clear film from new vibrator motor adhesive tape and apply it to the bottom of the vibrator motor. Gently press down the tape with your fingers so that the tape can be attached well.

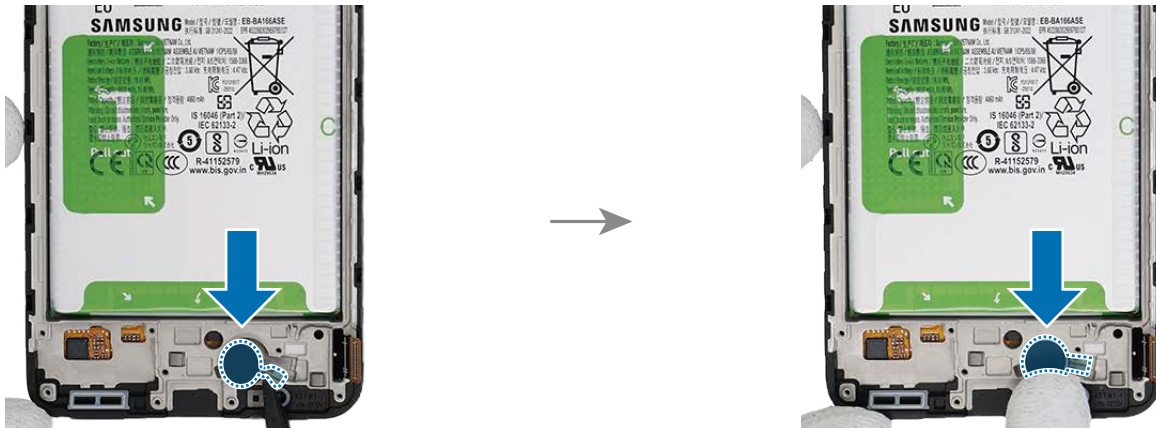


3 Remove the release film from the adhesive tape.



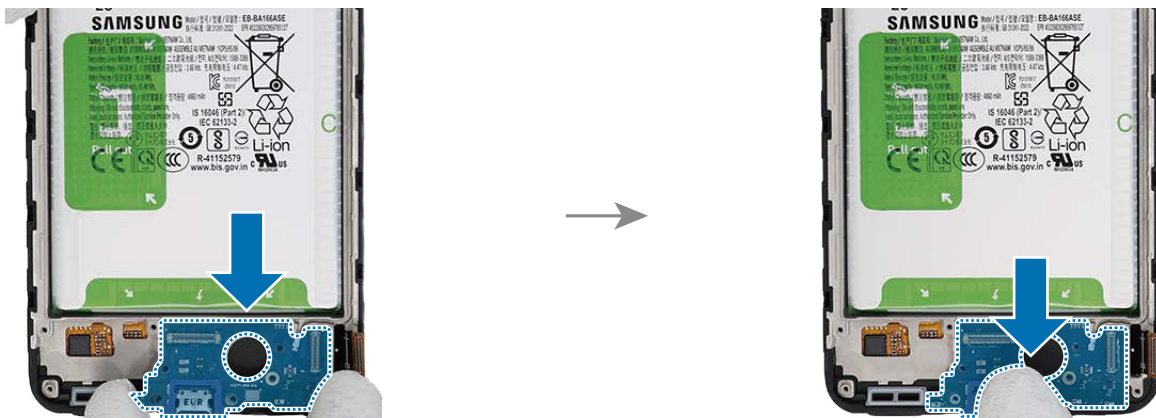
- Using the tweezers, assemble the vibrator motor to the exact position of the new screen module and press it with fingers softly.

⚠ Be careful not to damage the vibrator motor.



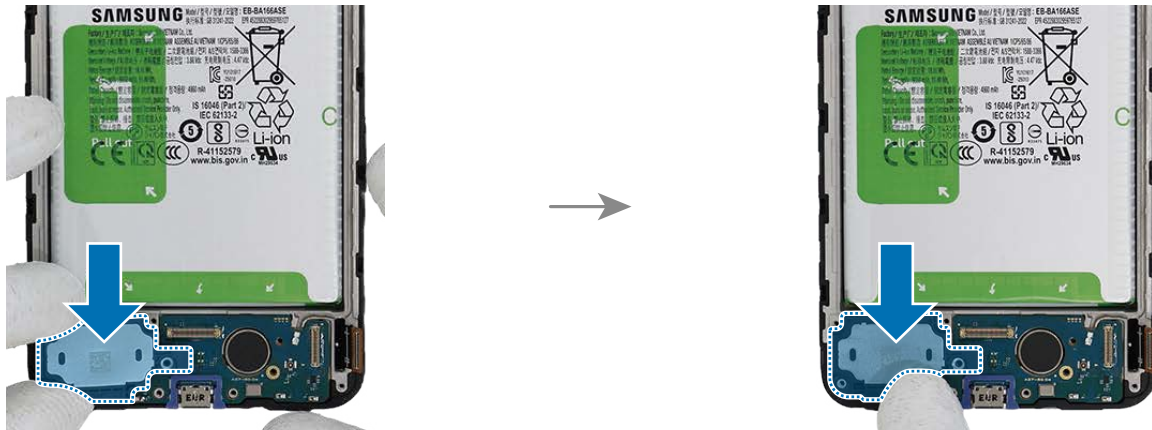
- Insert the charging port module to the bottom device frame of device and press down on it in its position smoothly.

⚠ Be careful not to damage the charging port module.



6 Insert the bottom speaker to the bottom metal frame of device and press down on it in its position smoothly.

⚠ Be careful not to damage the bottom speaker.





7 Check the screw 3637 (2 ea) at the 2 different points on the charging port module and fasten them using a cross-head screwdriver.

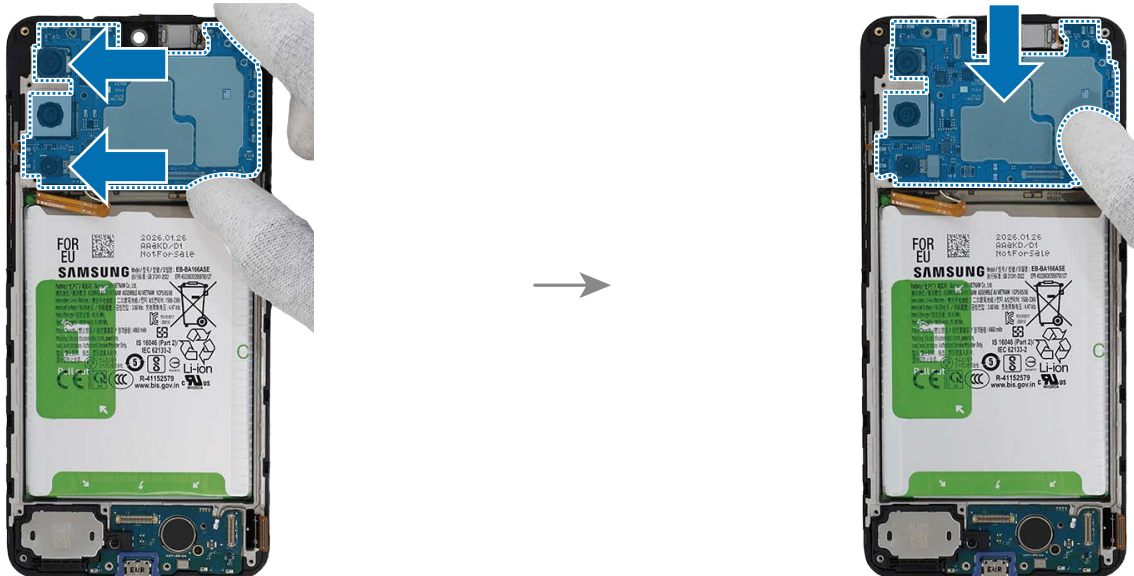
⚠ Be careful not to damage the charging port and the near components.




8 Align the main board onto the device frame. After attaching the left part of the main board on the metal frame, assemble the right part.

 Be careful not to damage the battery.

 The FPCB cables and coaxial cable have to be positioned outside so as not to interfere when assembling the main board.



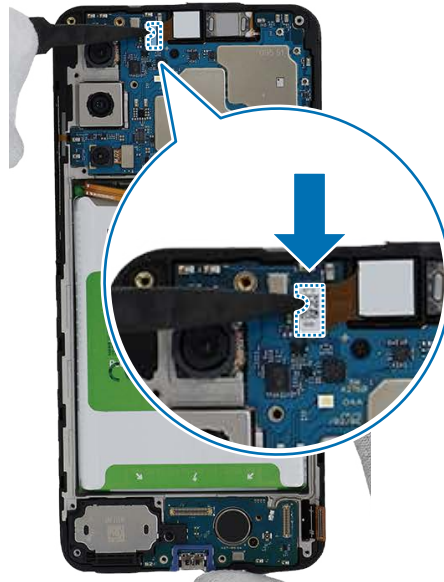
9 Check the screw 3637 (1 ea) on the main board and fasten it using a cross-head screwdriver.

 Be careful not to damage the near components.



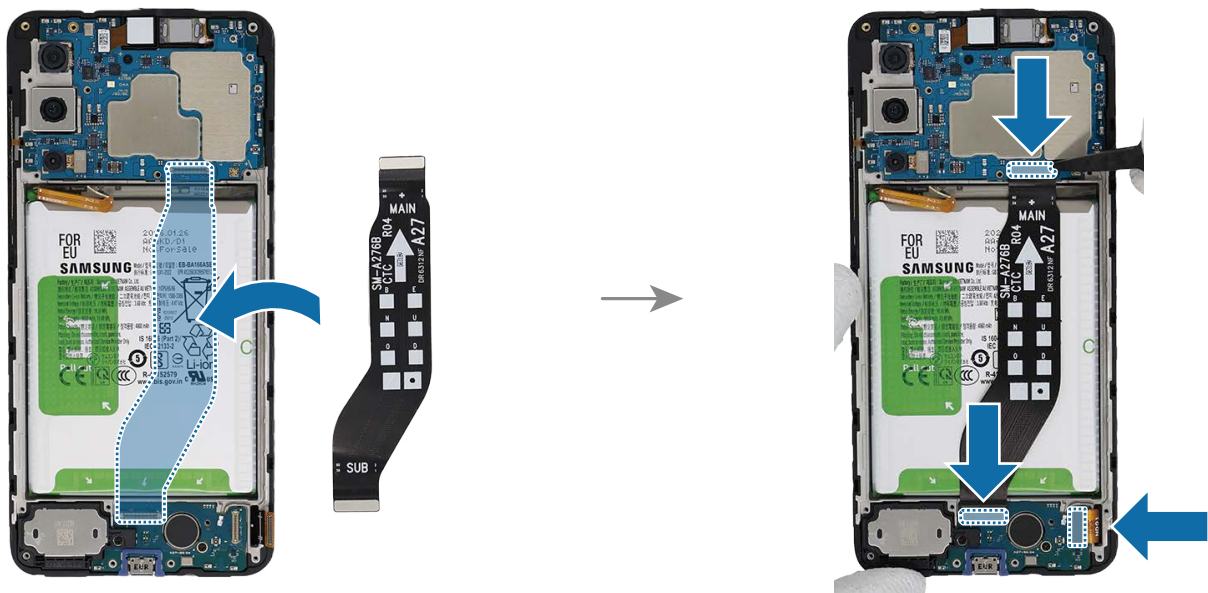
10 Using the tweezers or your fingers, place the new front camera in the camera hole so that the lens faces forward and gently insert. Then, connect the camera connector carefully on the main board.

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



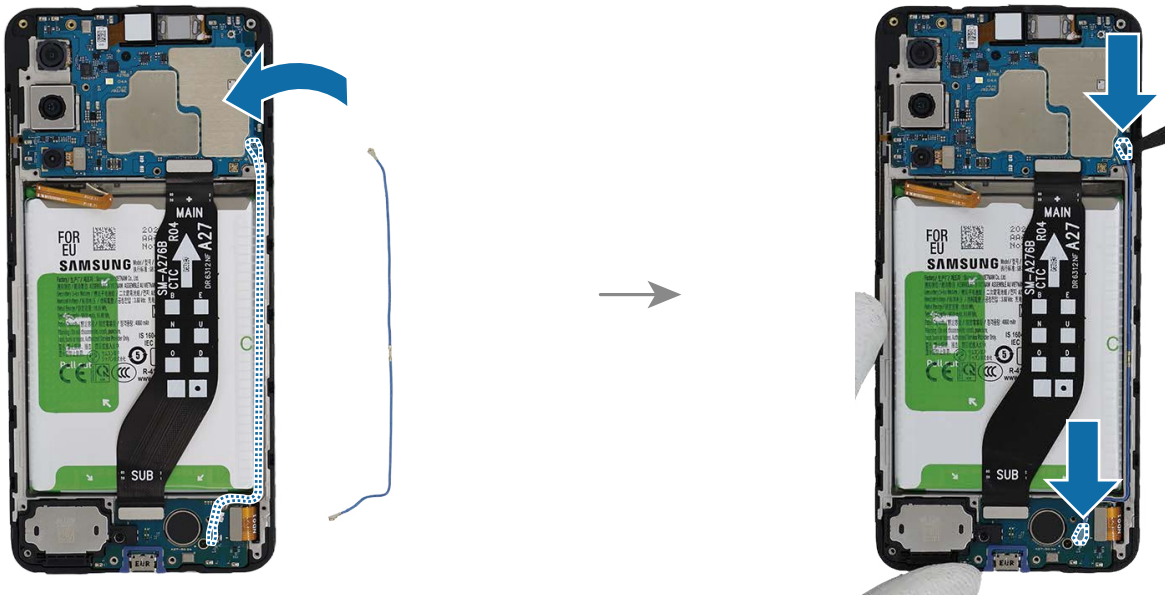
11 Place the flex cable to the device frame and connect the 3 connectors carefully.

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



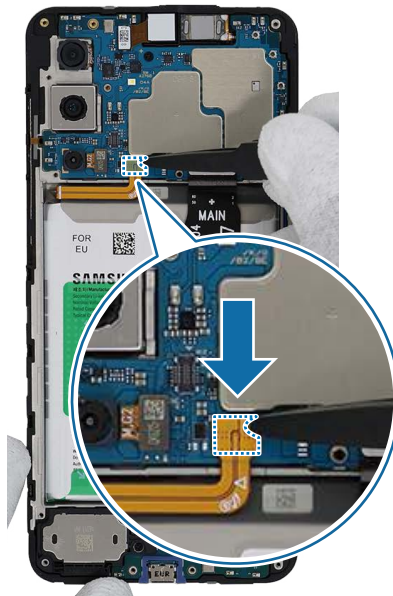
12 Place the coaxial cable to the device frame and connect the 2 connectors carefully.

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



13 Connect the battery connector to the main board.

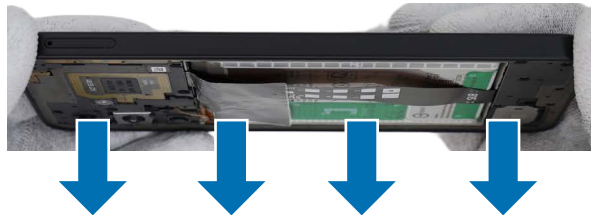
⚠ Be careful not to damage the battery.



- 14 Check for the reassembly steps of the [Front Camera](#) and completely reassemble the bracket.



- 15 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 separate up to the charging port module.



- 2 Place the screen module in the correct position on the bottom press tray.



- 3 Secure with the 7 screws removed from the bracket into the screw holes on the back of the bottom press tray using a cross-head screwdriver.

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





4 Heat the microwaveable heating bag and apply it on the screen for 5 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.
- ⚠ • 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.) Follow the heating bag's instructions for heating.
- Be careful not to damage the device through excessive heat. (It is recommended to disassemble the device in an area with temperature gauge.)




5 Place the suction cup in the centre of the top 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.



- 6 While pulling up the suction cup with strong, steady force to create the gap between the screen and the device frame, place the wide side of the opening pick in the gap between the top edge of the screen and the device frame and slice through the adhesive of screen edge. Repeat this on all the sides of the screen and slice through the adhesive.



7 Heat the microwaveable heating bag for 30 seconds (Standard: 700 W microwave) and apply it to the screen for 3 minutes.



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



Be careful not to damage the device through excessive heat. (It is recommended to disassemble the device in an area with temperature gauge.)



- 8 Place the suction cup in the centre of the screen and pull up the suction cup with strong, steady force to separate the screen from the device frame. Lift up the screen slowly and remove it completely from the device.
- ⚠ 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.

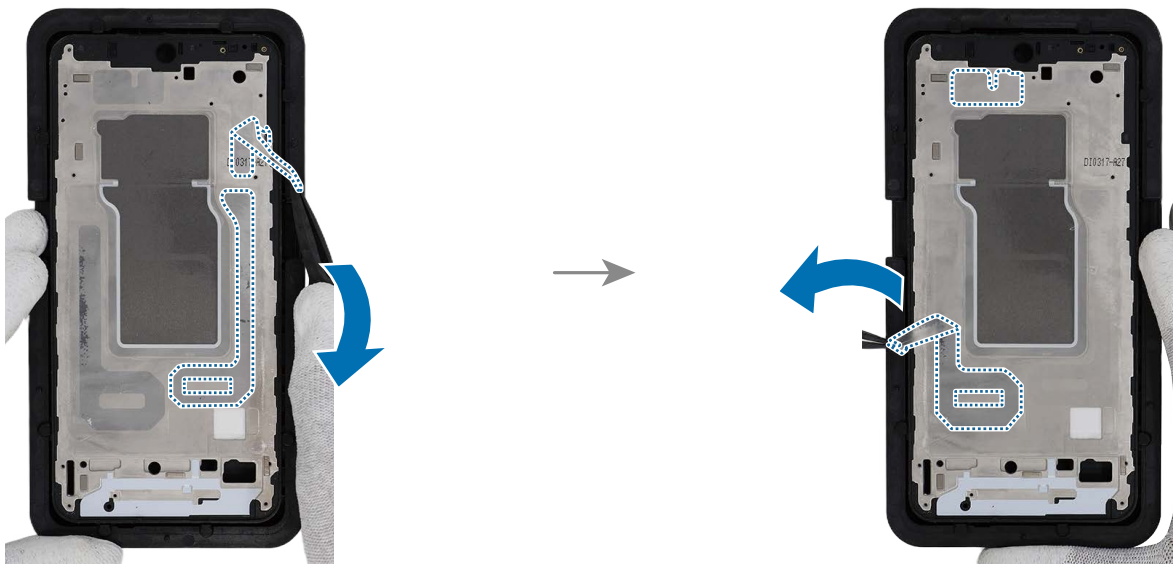


Reassembly

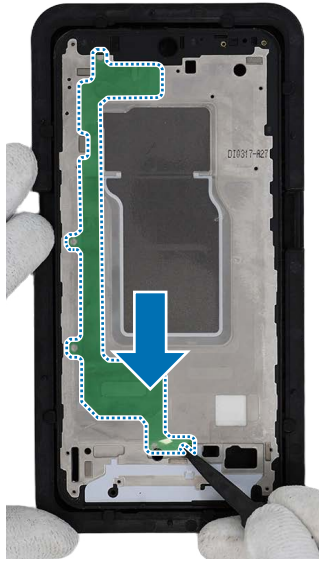
- ⚠ Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.
- ⚠ Before attaching the screen, make absolutely sure that there are no screws, miscellaneous parts, or other foreign objects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

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

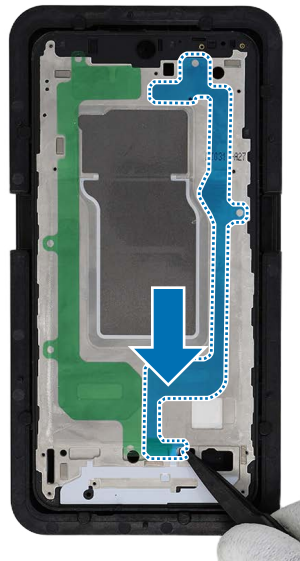
- ⚠ Make sure to remove any residual tapes attached to the metal frame before reassembling the new screen.



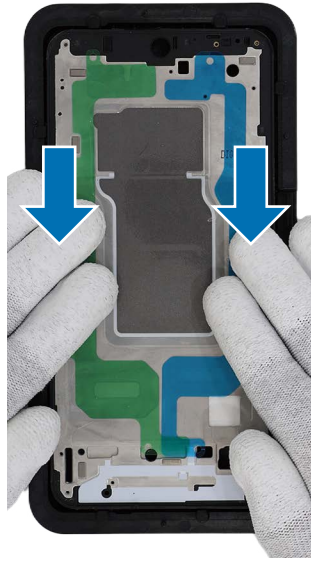
- 2 Remove the transparent film of new screen left adhesive tape. Using the tweezers, align the adhesive tape precisely on the metal frame and attach it.



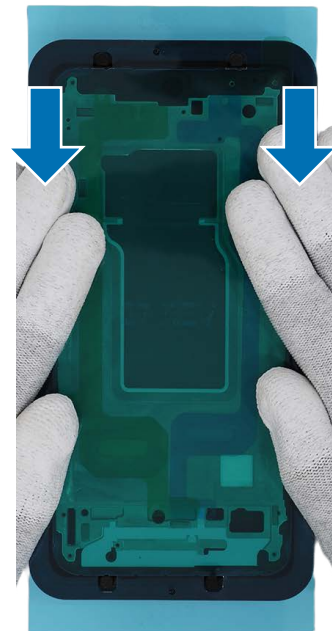
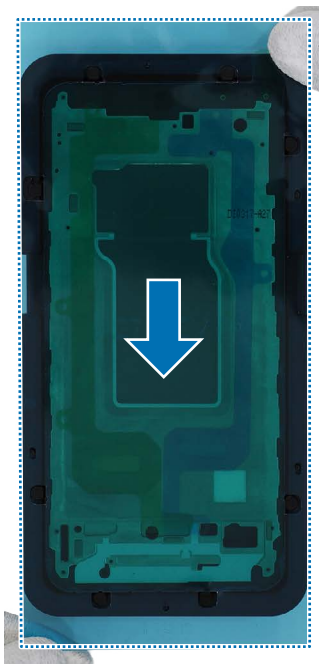
- 3 Remove the transparent film of new screen right adhesive tape. Using the tweezers, align the adhesive tape precisely on the metal frame and attach it.



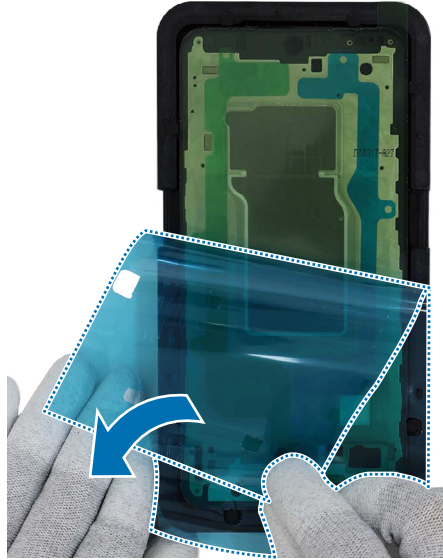
- 4 Gently press around the tape to ensure a secure fit.



- 5 Remove the transparent film of screen side adhesive tape. Using your fingers, align the adhesive tape precisely on the device frame and attach it.

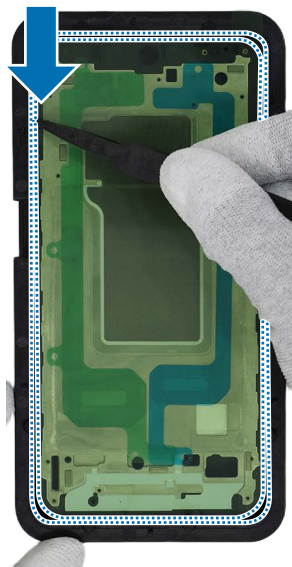


- 6 Remove the guide film of the screen side adhesive tape.

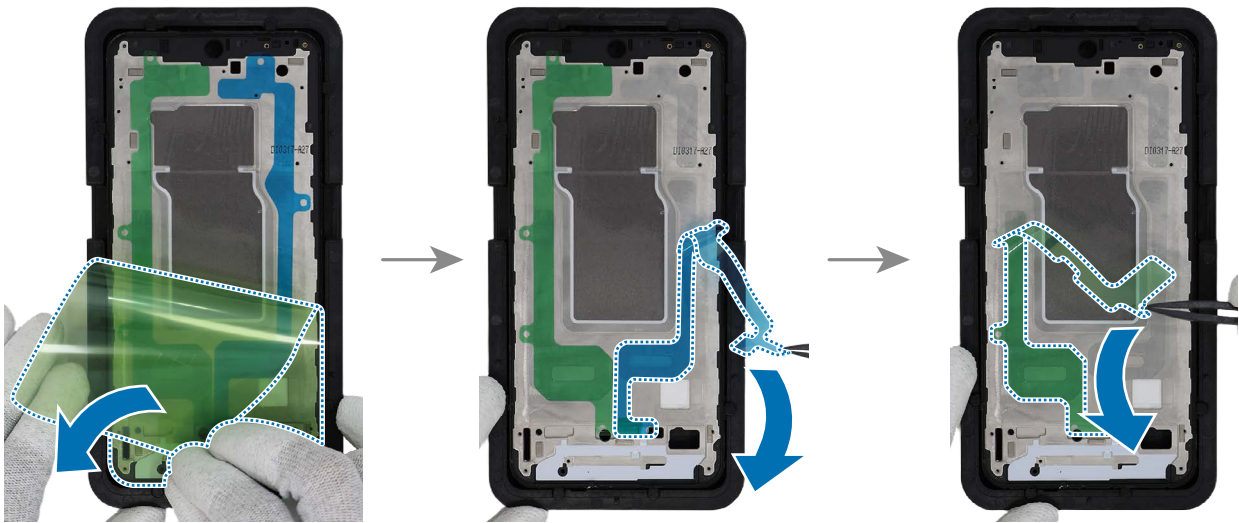


- 7 Using the tweezers, gently press around the edges of tape to ensure a secure fit.

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



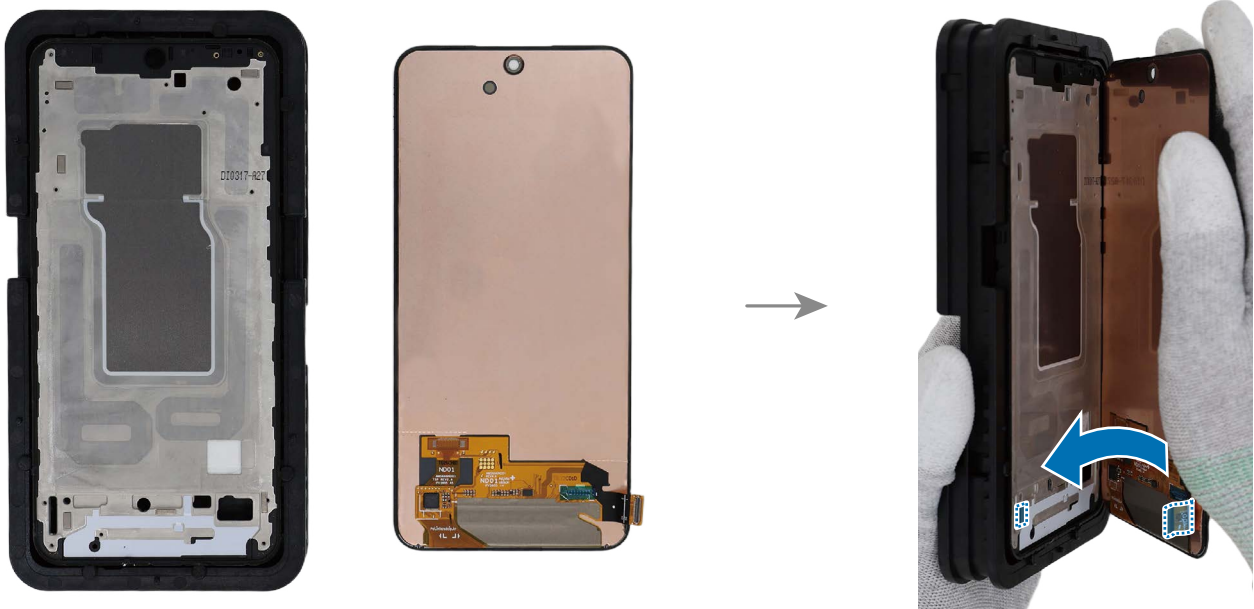
8 Using tweezers, remove all release films of the attached adhesive tapes one by one.



9 Carefully insert the screen connector of the new screen into the screen connector hole of the device frame and attach the screen slowly.

⚠ Be careful not to damage the near components.


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




- 10 Press down all the edges of the screen evenly in order to attach the screen perfectly. Ensure that there are no abnormalities.

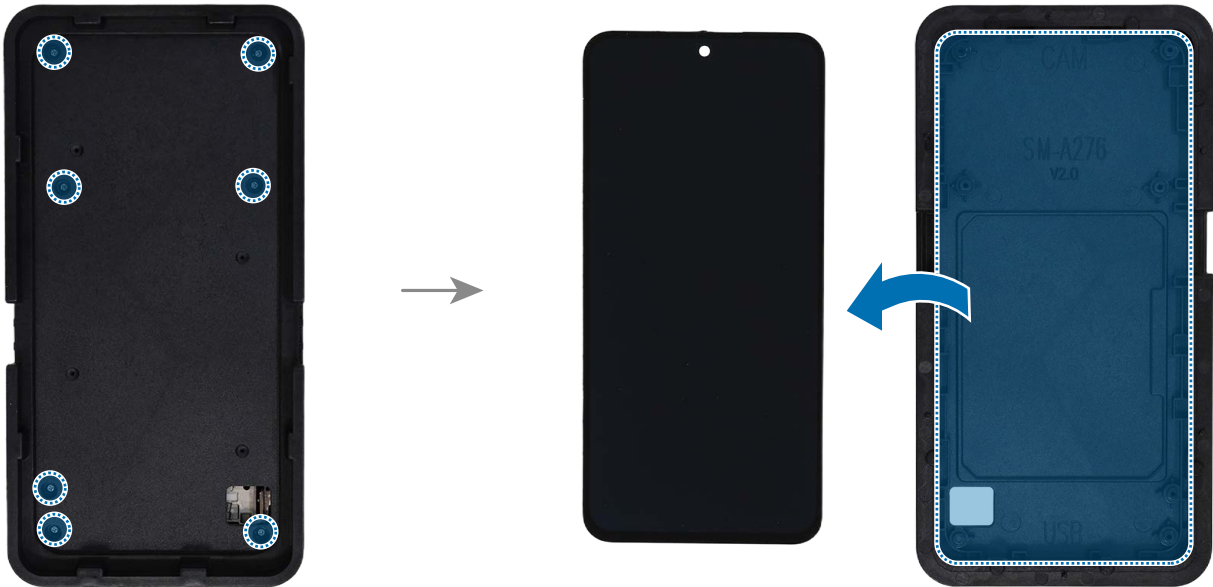


- 11 If the press tray is bundled with the repair parts you ordered, check for the steps of the [Screen Press](#). You can further press the fully assembled screen using the appropriate tool.

-  Availability of the bundle tool may vary depending on the country and are currently available only in limited countries.

12 Check the 7 screws at the 7 different points on the rear and remove them using a cross-head screwdriver. Remove the display module from the display disassembly tool.

 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.



13 Check for the reassembly steps of the [Screen Module](#) and completely reassemble all the parts including the back cover.



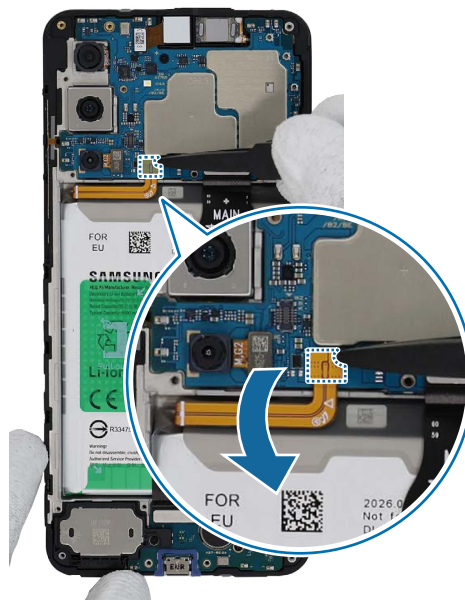
Battery

- ⚠ • 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

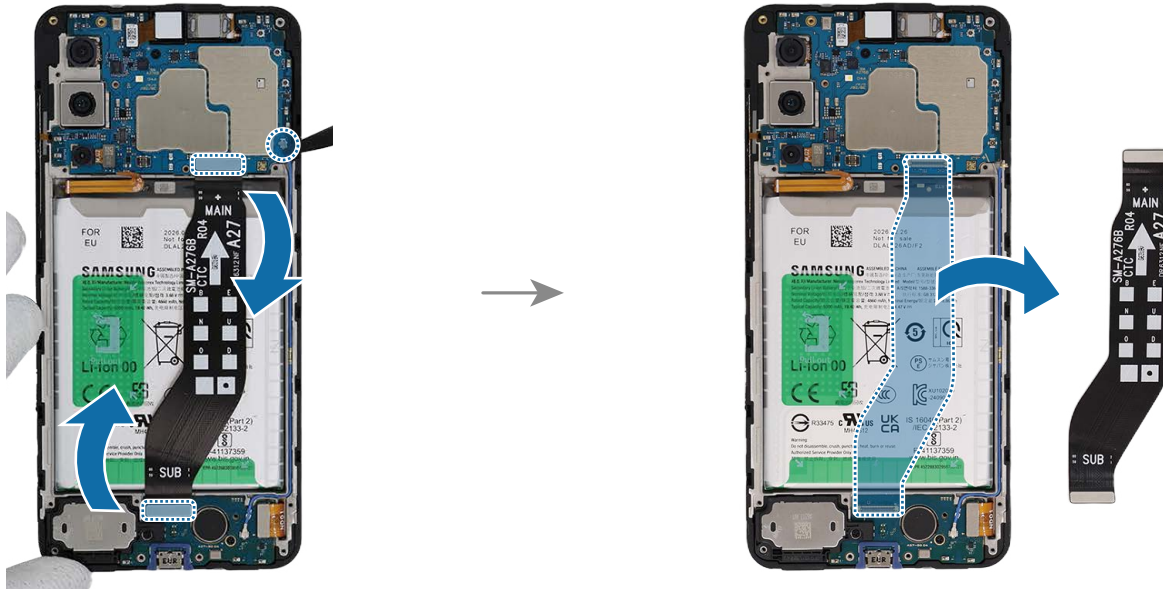
- ✍ Remove the [SIM Card Tray](#) and [Back Cover](#) first before you begin.

- 1 Check for the disassembly steps of the [Front Camera](#) and completely separate the battery connector.



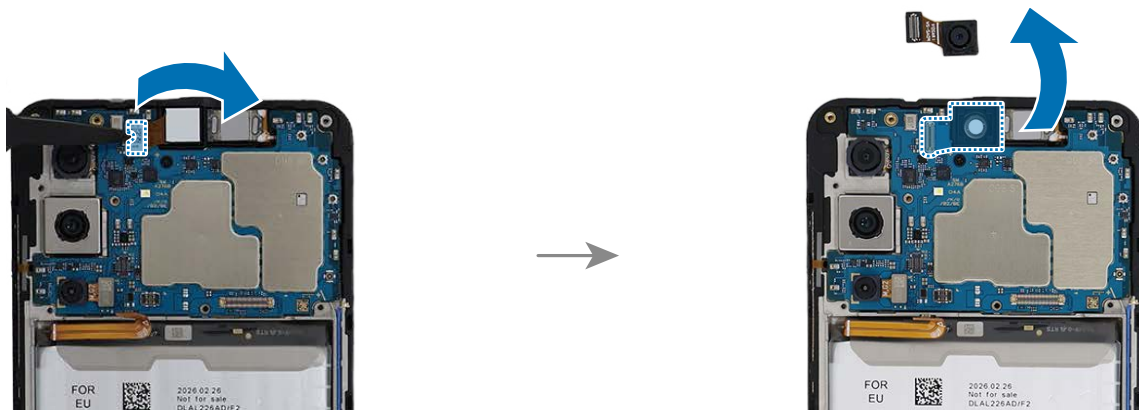
2 Using the tweezers, disconnect the 3 connectors and remove the flex cable completely.

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



3 Using the tweezers, separate the front camera connector from the main board and remove the front camera carefully from the device. Leave the camera lens facing up.

⚠ Be careful not to touch the camera lens while removing the camera.



4 Check the 1 screw on the main board and remove it using a cross-head screwdriver.

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

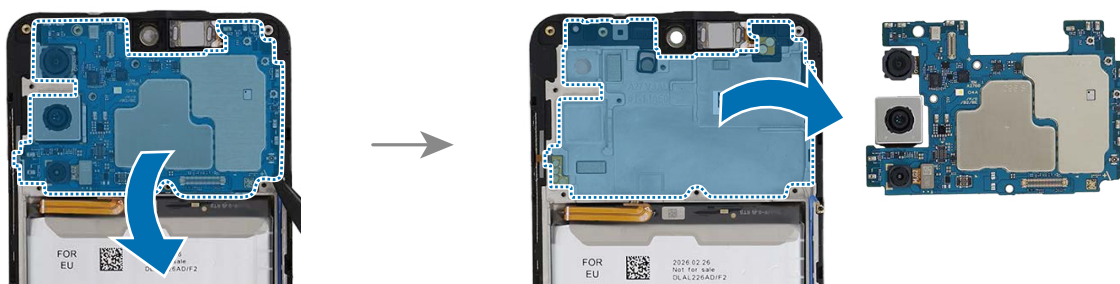
📝 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.




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


⚠ Be careful not to damage the battery.

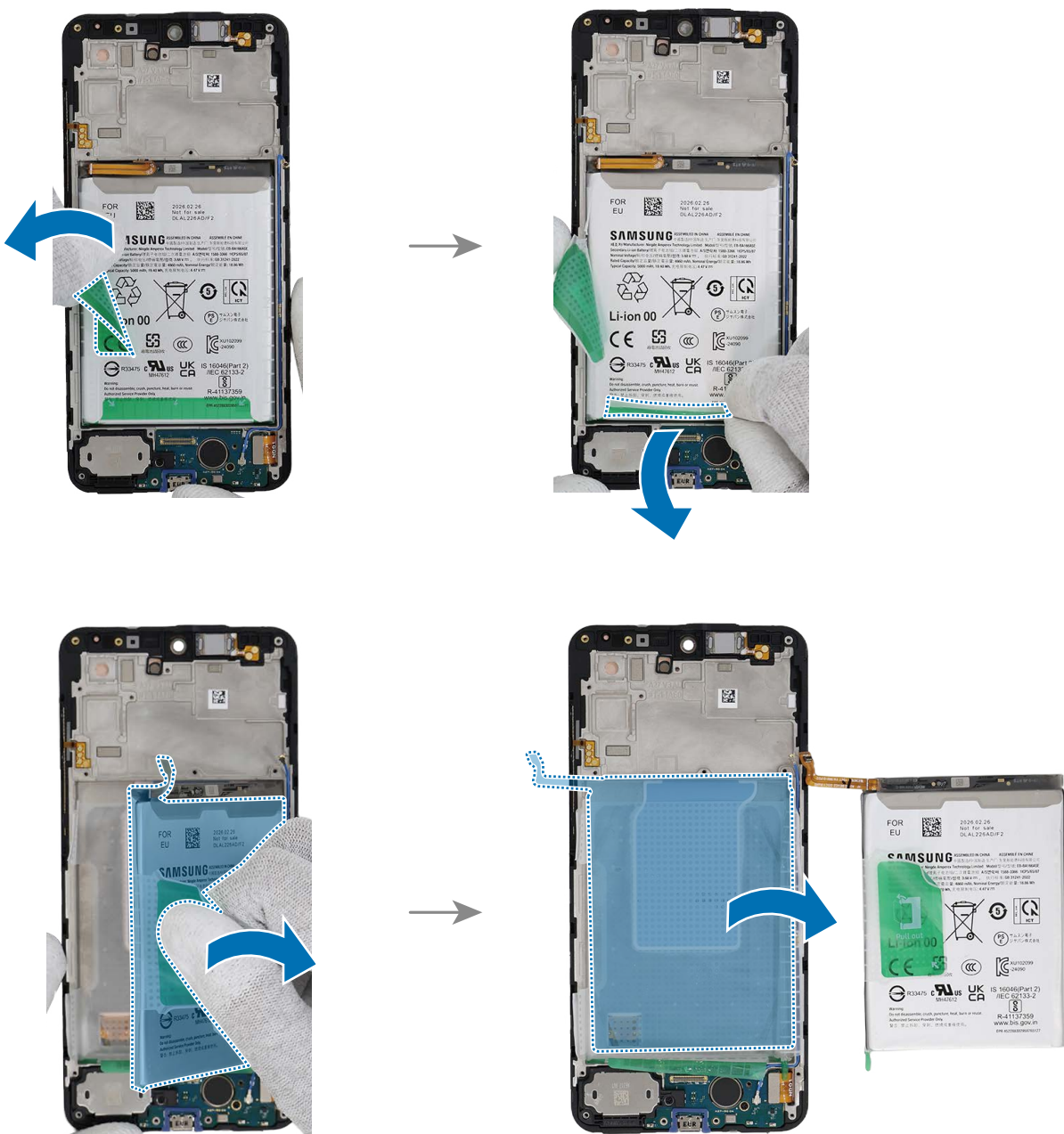
⚠ The FPCB cables have to be positioned outside so as not to interfere when disassembling the main board.



6 Using your fingers, grab the tapes attached to left side and bottom side of the battery and separate it carefully from the battery. Then, grab the left side tape handle with 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 slowly.
- FPCB cables and connectors have to be positioned outside so as not to interfere when disassembling the battery.
- Be careful not to damage the near components and the connectors.

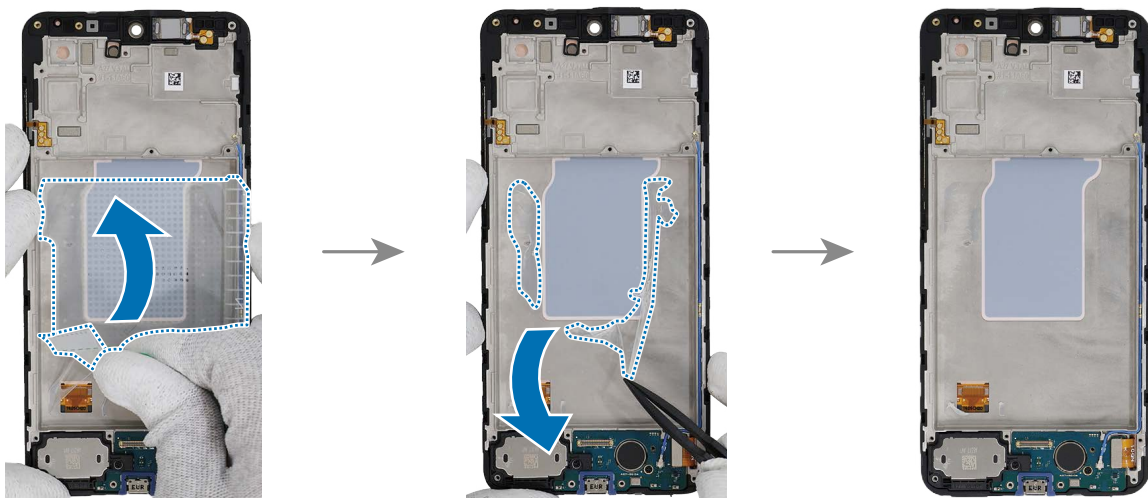


Reassembly


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

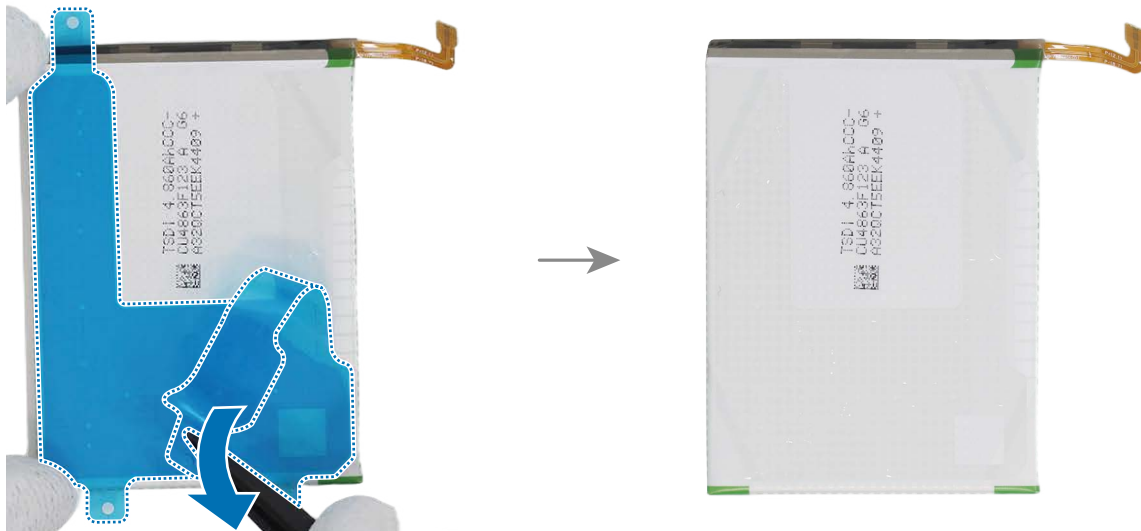
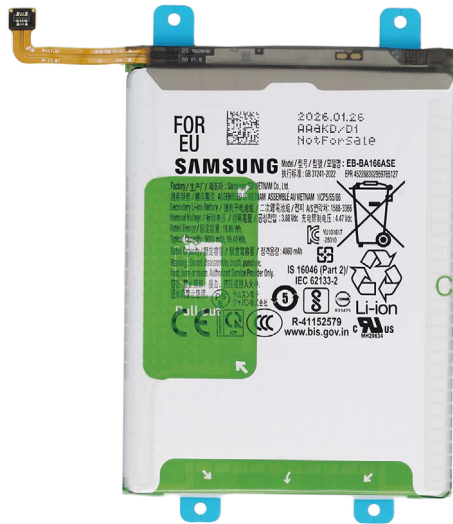
1 Using the tweezers and your fingers, remove all the remaining adhesive tapes on the metal frame.

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



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

 Be careful not to damage the battery.



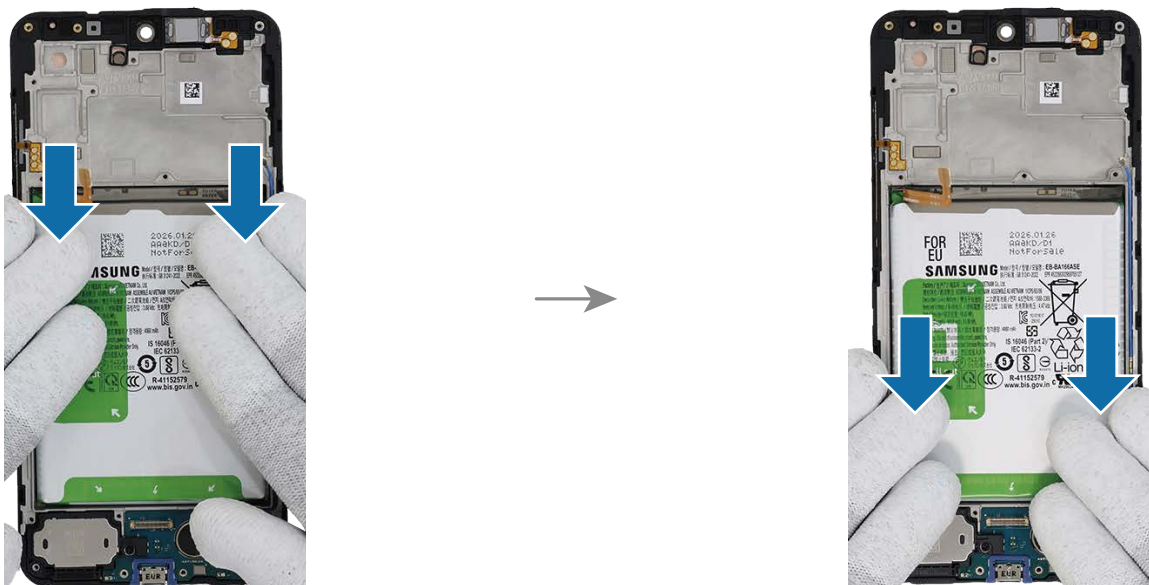
3 With the battery connector on the left, carefully place the battery based on the upper left side of the battery. Assemble the battery to the exact position of the metal frame using your fingers.

⚠ Be careful not to damage the battery.


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




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




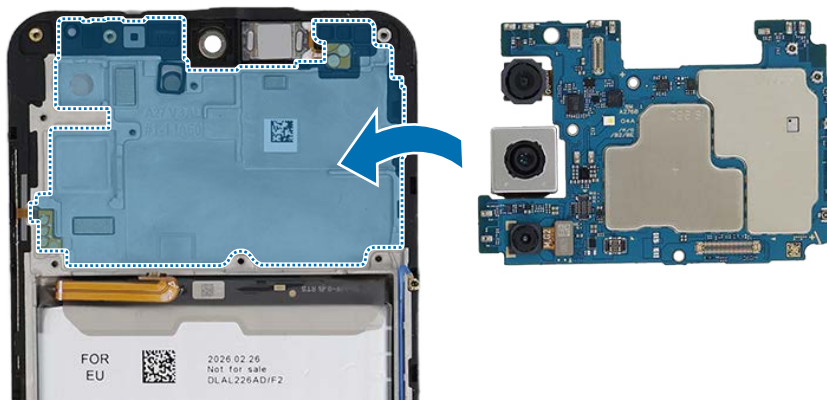
5 If the press tray is bundled with the repair parts you ordered, check for the steps of the [Battery Press](#). You can further press the fully assembled battery using the appropriate tool.

 Availability of the bundle tool may vary depending on the country and are currently available only in limited countries.

6 Align the main board onto the device frame. After attaching the left part of the main board on the metal frame, assemble the right part.

 Be careful not to damage the battery.

 The FPCB cables and coaxial cable have to be positioned outside so as not to interfere when assembling the main board.



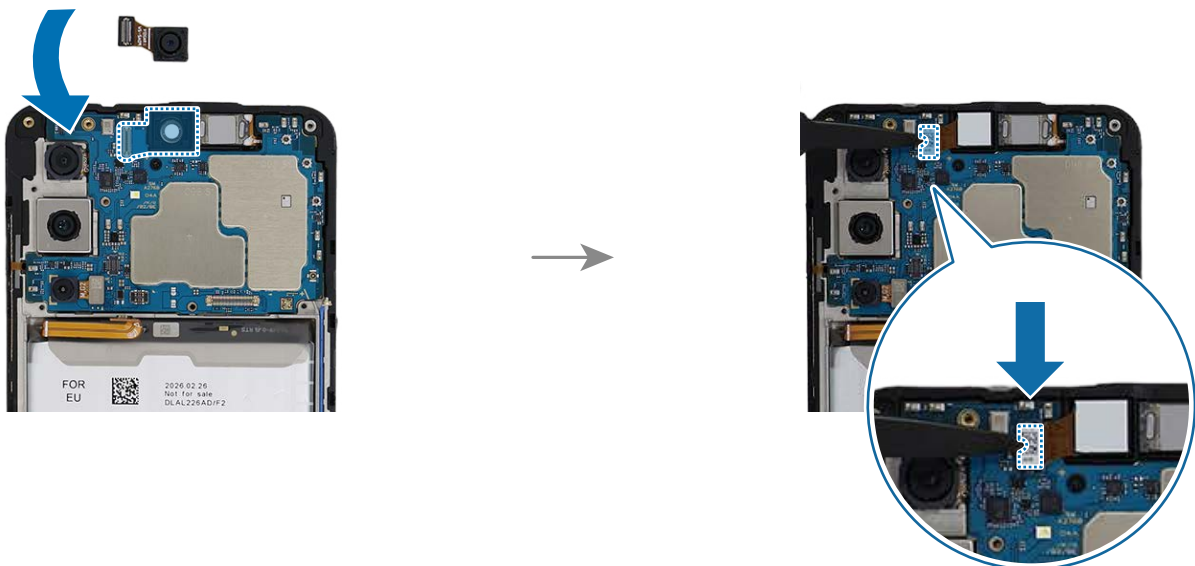
7 Check the screw 3637 (1 ea) on the main board and fasten it using a cross-head screwdriver.

⚠ Be careful not to damage the near components.



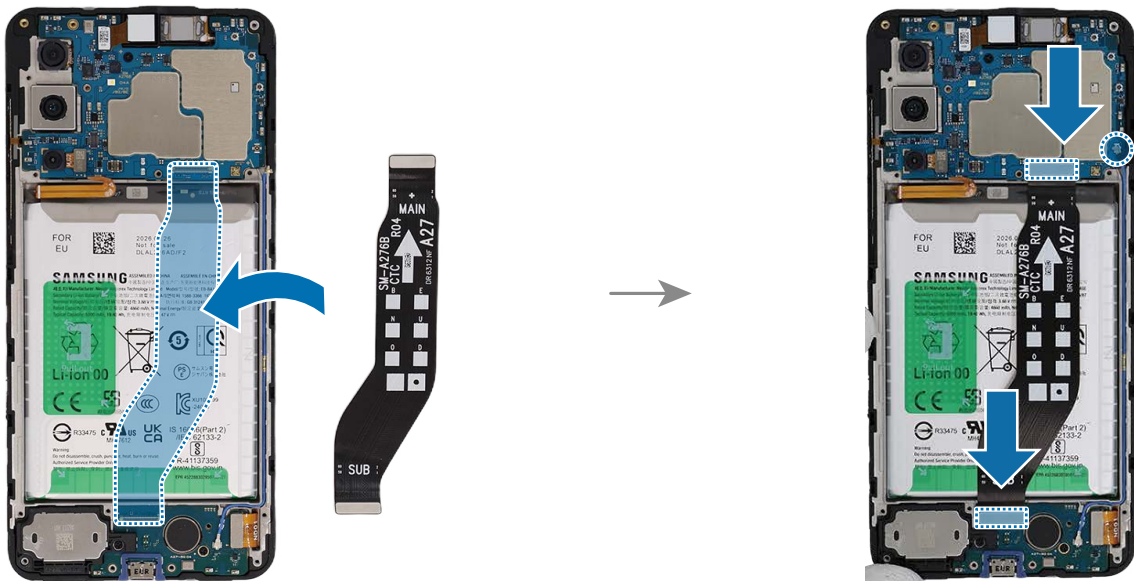
8 Using the tweezers or your fingers, place the front camera in the camera hole so that the lens faces forward and gently insert. Then, connect the camera connector carefully on the main board.

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



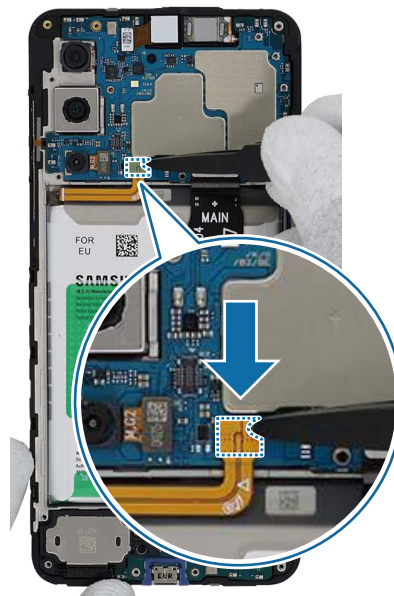
9 Place the flex cable to the device frame and connect the 3 connectors carefully.

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



10 Connect the battery connector to the main board.

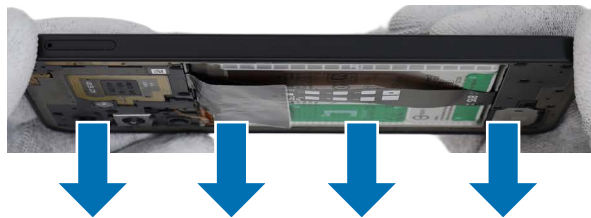
⚠ Be careful not to damage the battery.



- 11 Check for the reassembly steps of the [Front Camera](#) and completely reassemble the bracket.



- 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](#) and [SIM Card Tray](#) 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



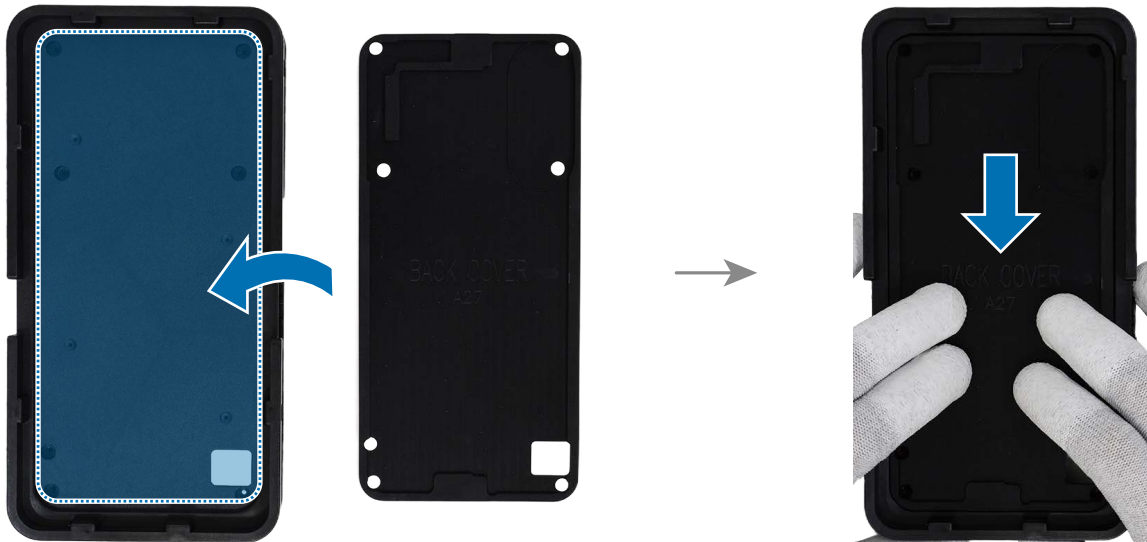
- The Press step is a process for responding to Repair Regulations implemented in some regions and may not be an essential process in other areas.
- When repairing the back cover, screen or battery, the press tray can be bundled with the ordered parts. Availability of bundle tool may vary depending on the country and is currently available only in limited countries.

Before pressing,

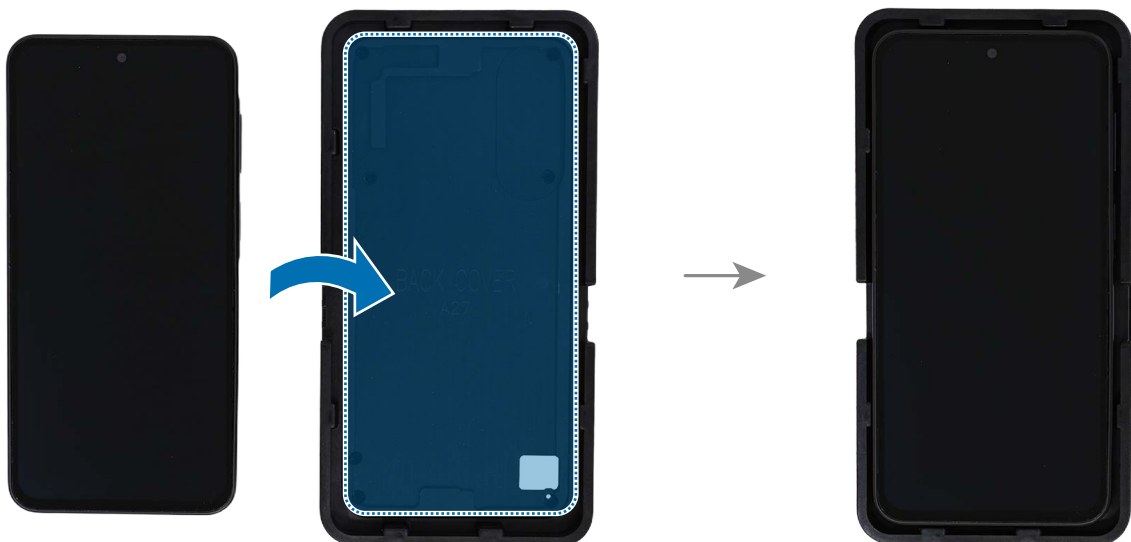
- Using the press tray, you can further press the fully assembled back cover, screen or battery.
- Appropriate tool for pressing the back cover, screen or battery depends on the parts repaired.
- Prepare all necessary press tools and make sure to wear the appropriate safety equipment for your safety.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

Back Cover Press

- 1 Place the bottom rubber pad to the precise position at the back of the bottom press tray.

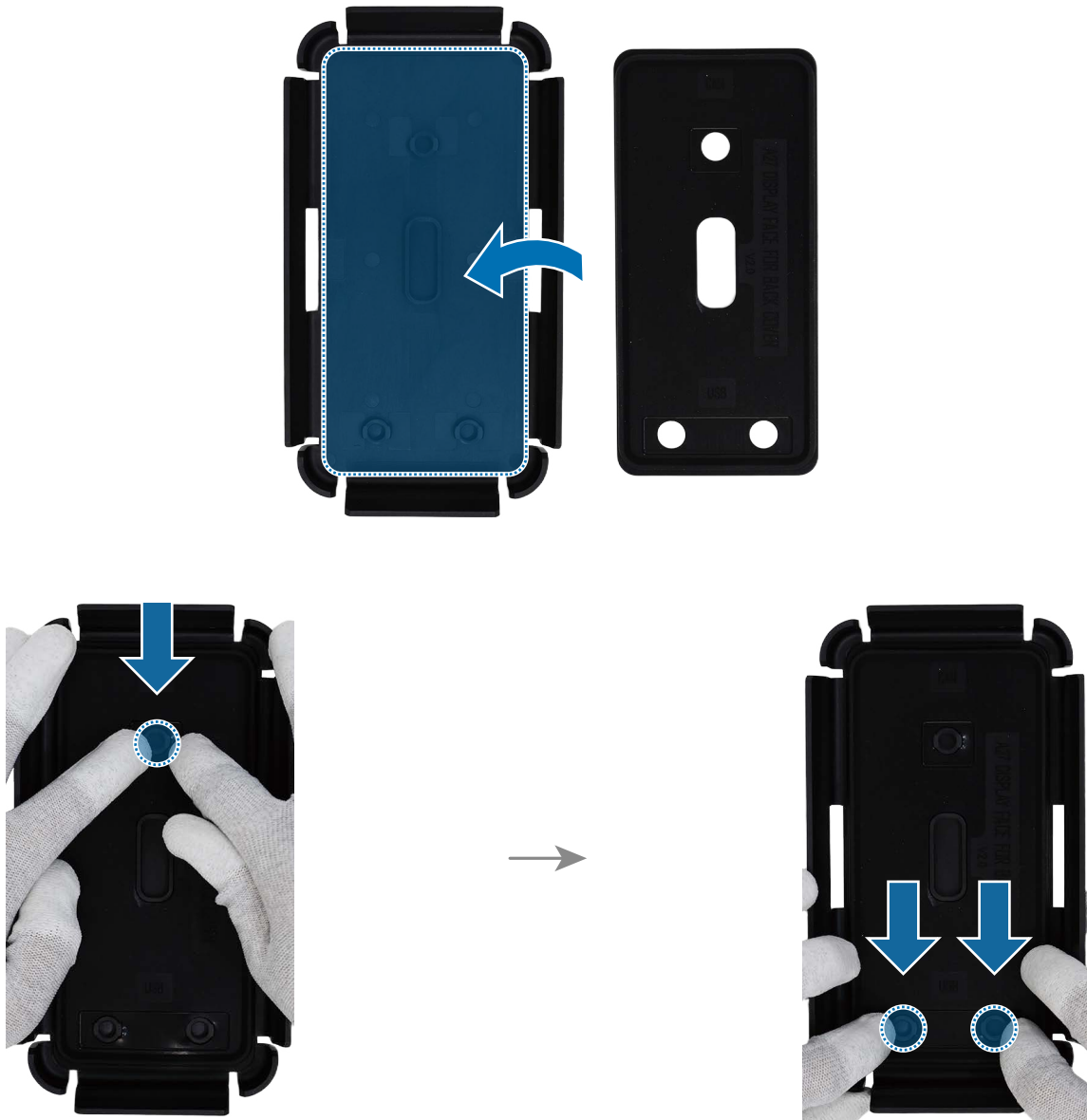


- 2 Place the device on the back cover side of the bottom press tray at the correct position.

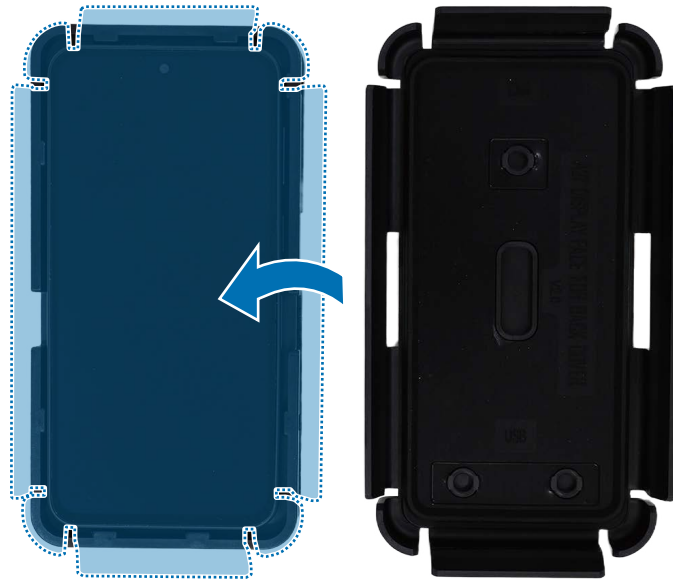


3 Insert the top rubber pad to the top press tray, and press down on it in its position smoothly.

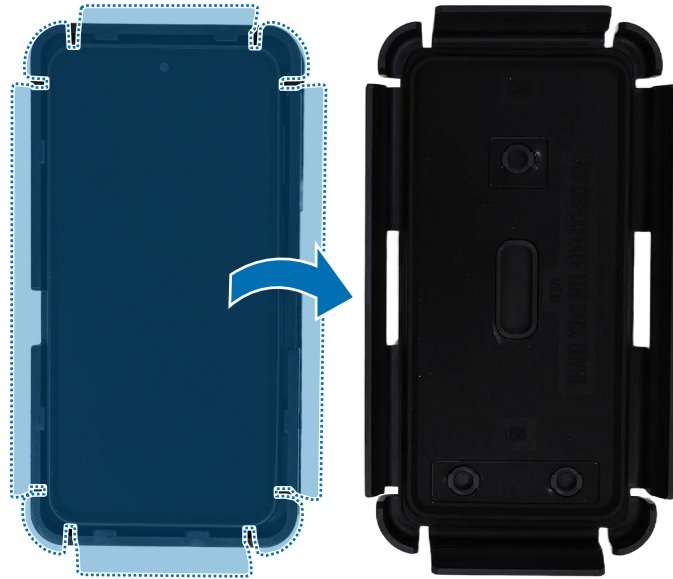
⚠ Make sure the top rubber pad is properly attached to the hook of the top press tray.



- 4 Cover the top press tray so that it fits over the bottom press tray, and press until you hear a click on all 4 sides. Then, leave it fixed for 5 minutes.



- 5 After 5 minutes, slightly lift the clips on top, bottom, left, and right sides to separate the top press tray.



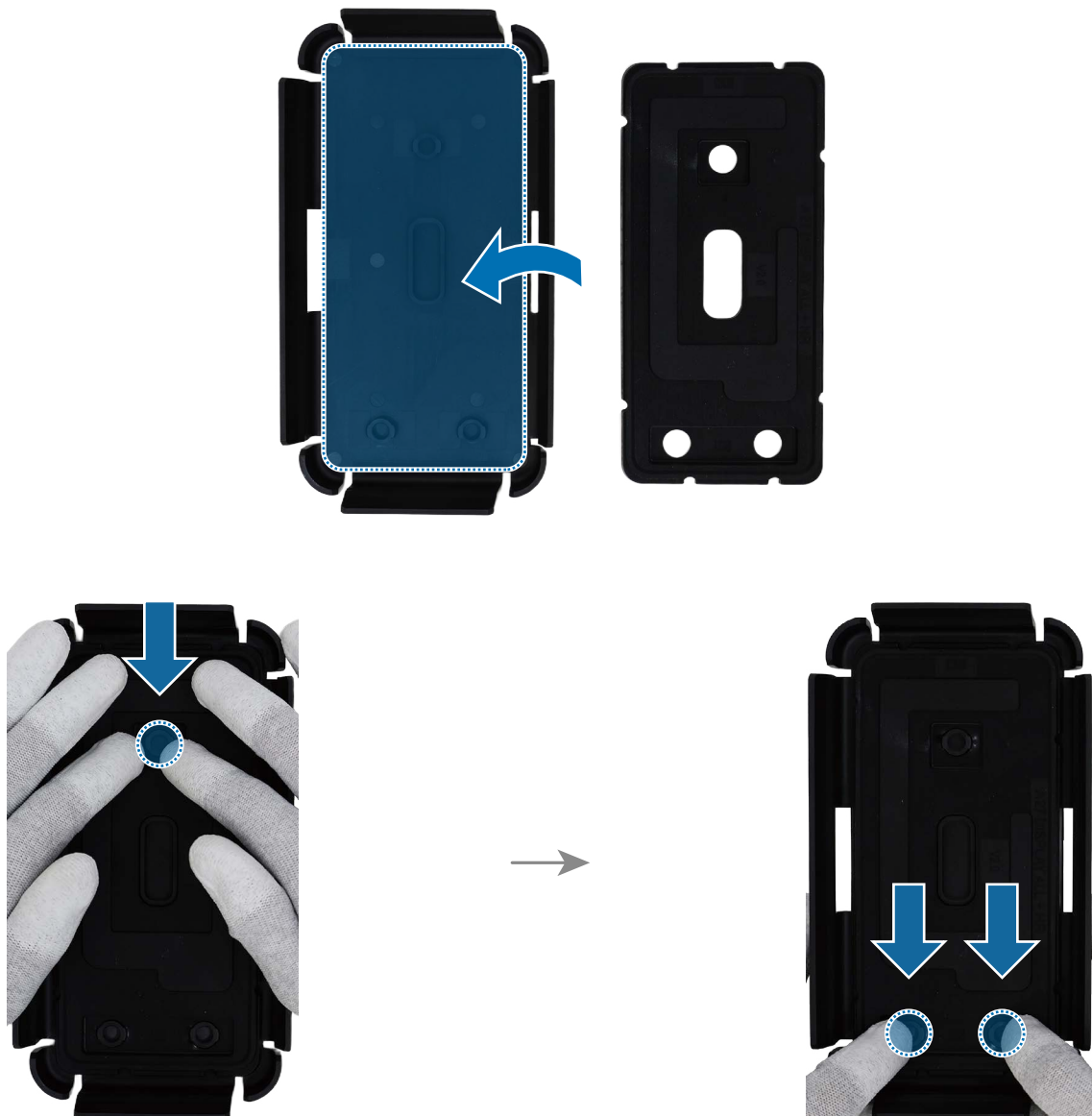
- 6 Disconnect the device from the bottom press tray.



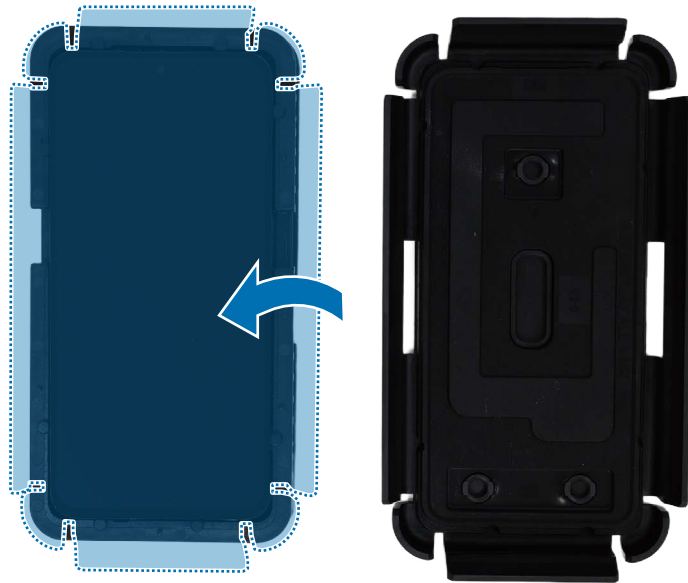
Screen Press

1 Insert the top rubber pad to the top press tray, and press down on it in its position smoothly.

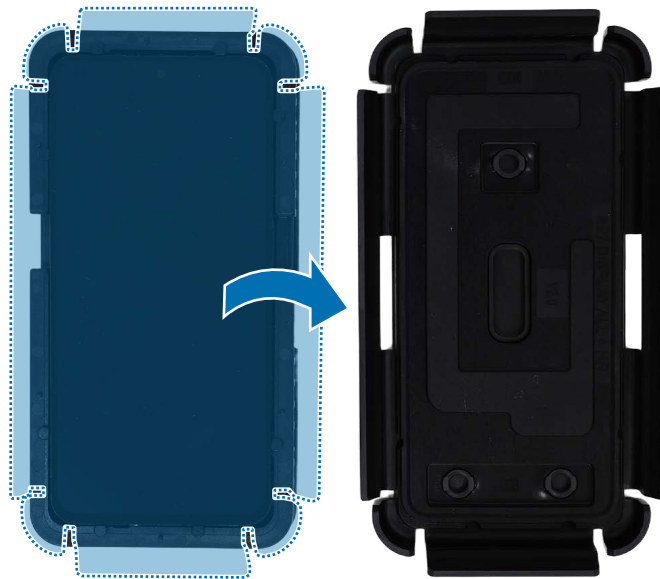
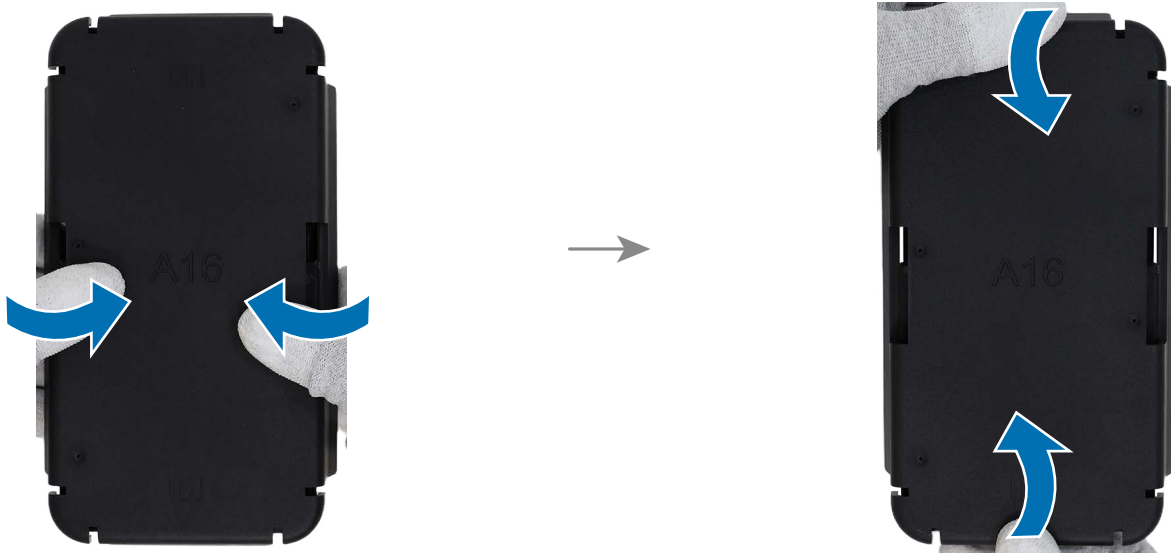
⚠ Make sure the top rubber pad is properly attached to the hook of the top press tray.



- 2 Cover the top press tray so that it fits over the bottom press tray, and press until you hear a click on all 4 sides. Then, leave it fixed for 5 minutes.

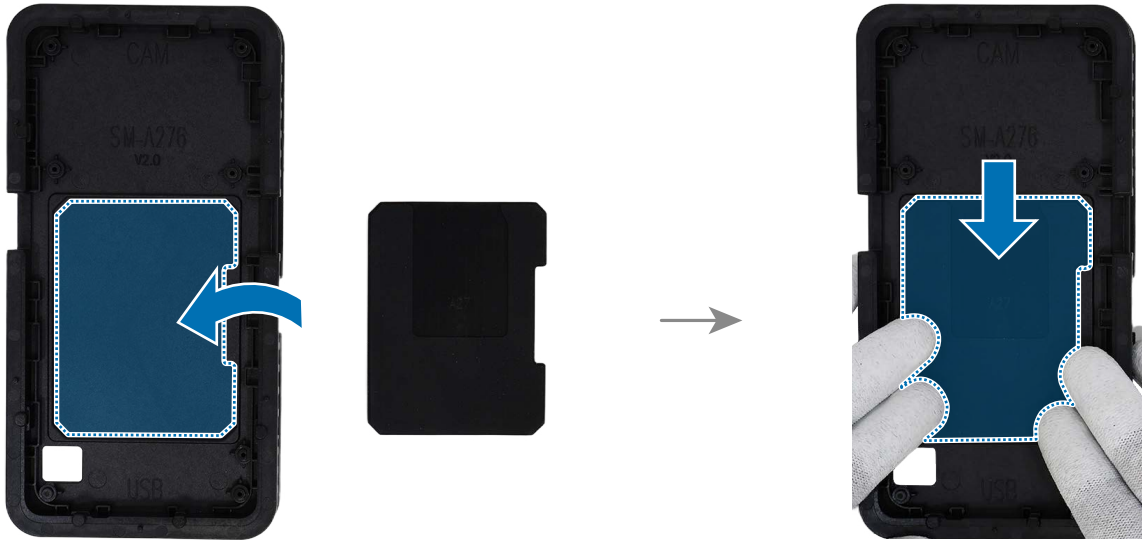


- 3 After 5 minutes, slightly lift the clips on top, bottom, left, and right sides to separate the top press tray.



Battery Press

- 1 Insert the battery press pad to the front of the bottom press tray, and press down on it in its position smoothly.



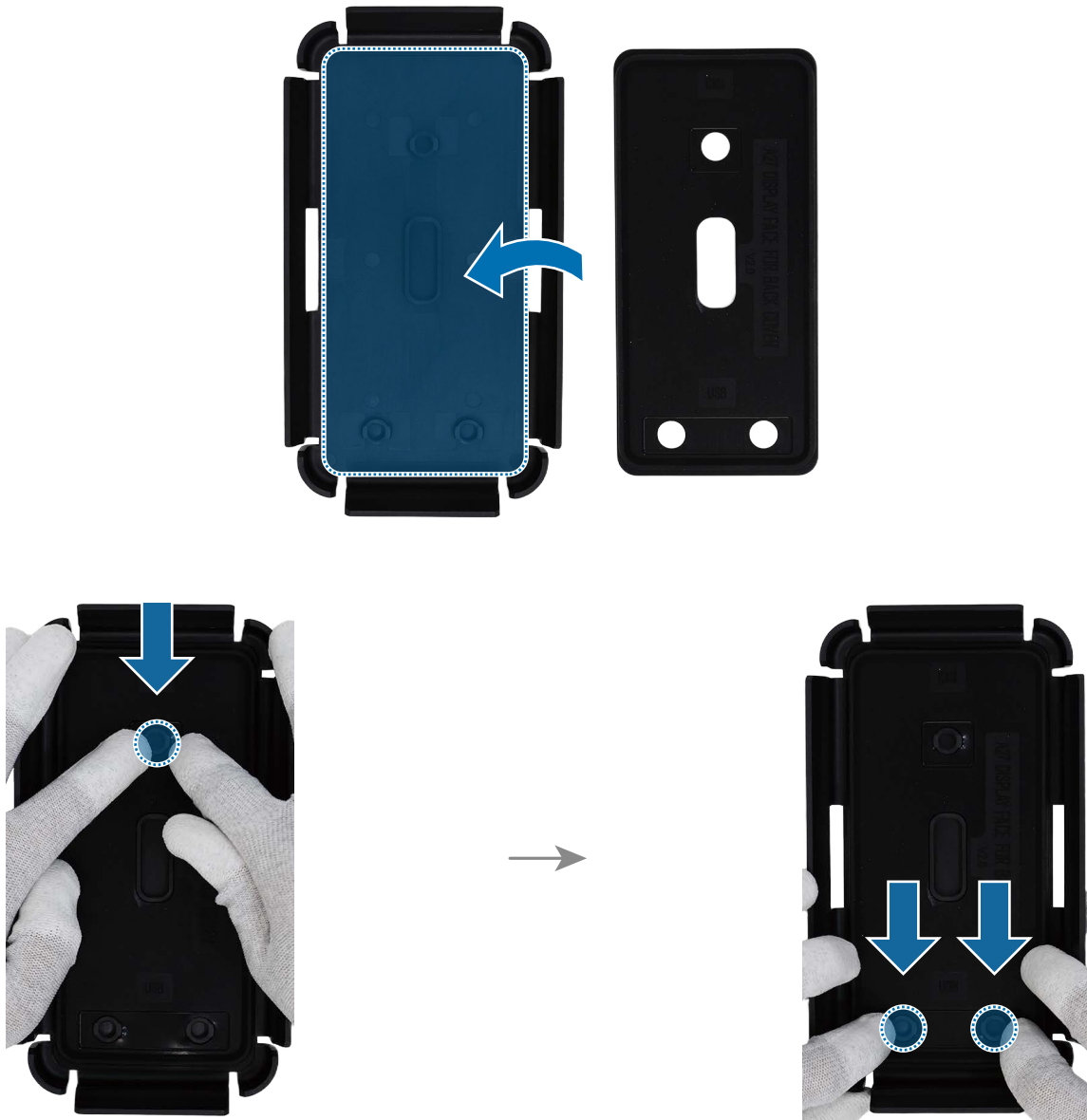
- 2 Place the screen module on the press bottom at the correct position.

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

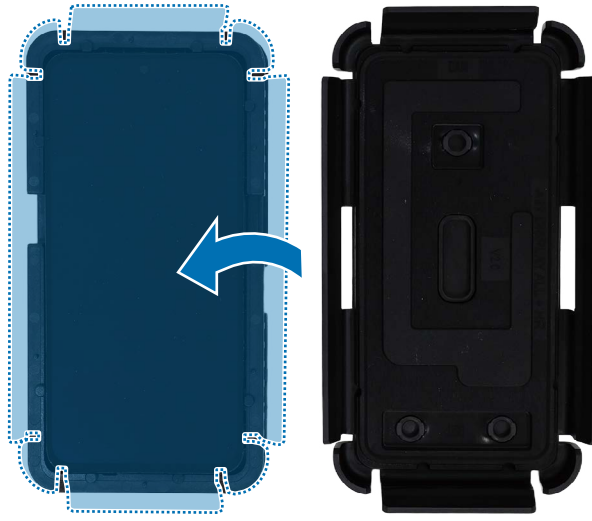


3 Insert the top rubber pad to the top press tray, and press down on it in its position smoothly.

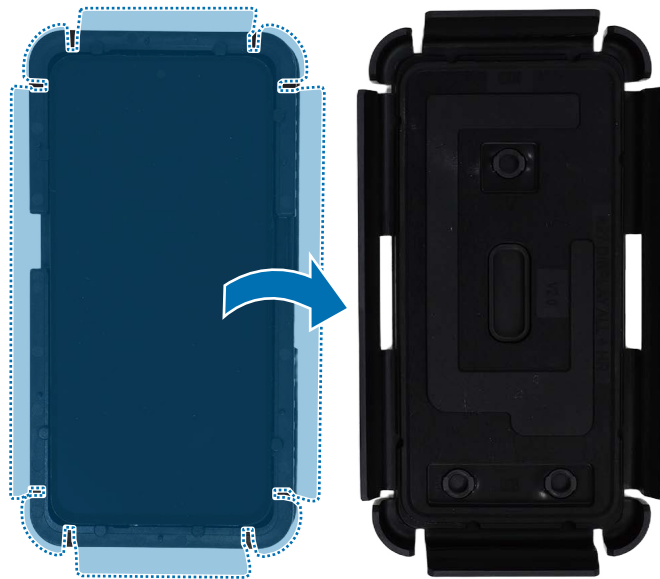
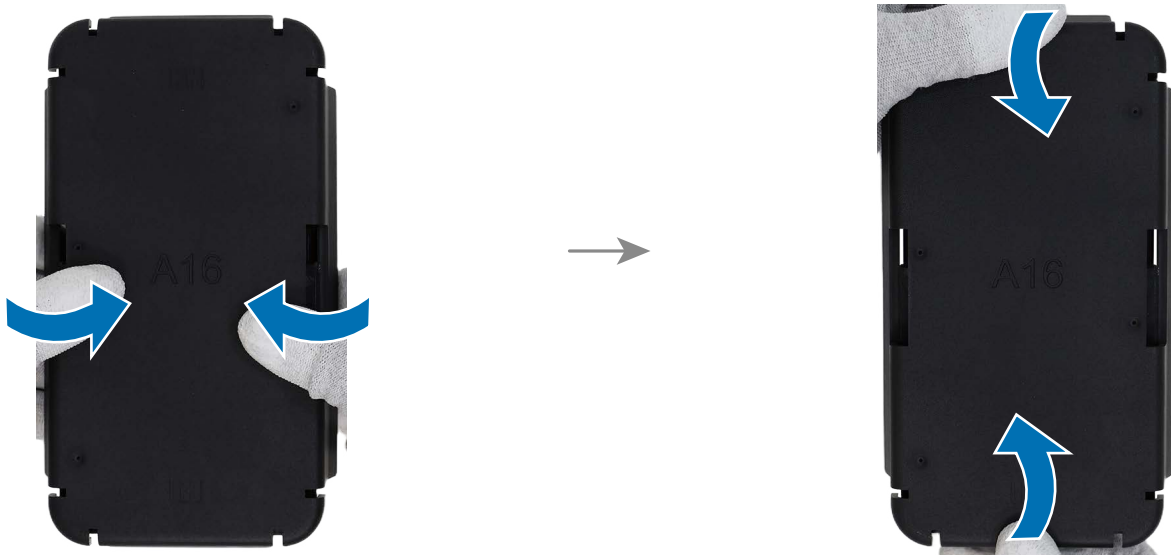
⚠ Make sure the top rubber pad is properly attached to the hook of the top press tray.



- 4 Cover the top press tray so that it fits over the bottom press tray, and press until you hear a click on all 4 sides. Then, leave it fixed for 5 minutes.



- 5 After 5 minutes, slightly lift the clips on top, bottom, left, and right sides to separate the top press tray.



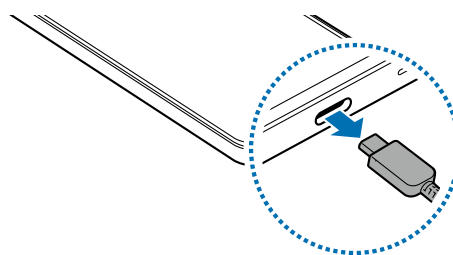
6 Disconnect the screen module from the Bottom Press Tray.



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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