

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

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

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

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

ESD (Electrostatic Discharge) Precautions

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

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

Instructional Icons



Warning: situations that could cause injury to yourself or others



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



Notice: notes, usage tips, or additional information

Software Update

Updating Software through FOTA

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

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

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



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

Software Update Failure

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

Updating Software through Smart Switch

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



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

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

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

Recovering from a Software Update Failure

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

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

Recovering on Another Computer

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

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

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

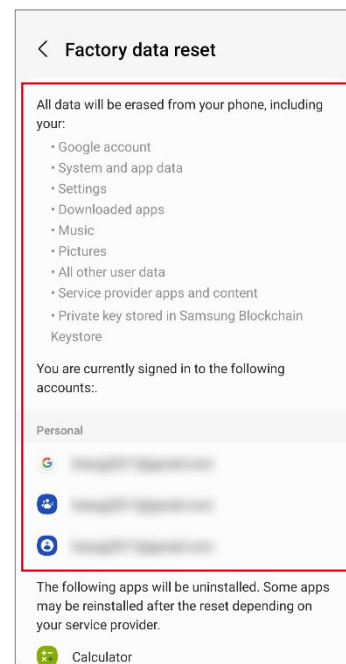
Performing a Factory Data Reset

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

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

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

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



3 Tap **Reset** → **Delete all**.

All data will be deleted when rebooting.



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

Quality Test

Quality Test Using the Samsung Members App

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



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

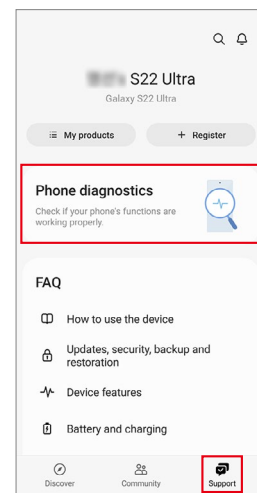
Device Diagnostics

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

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

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

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

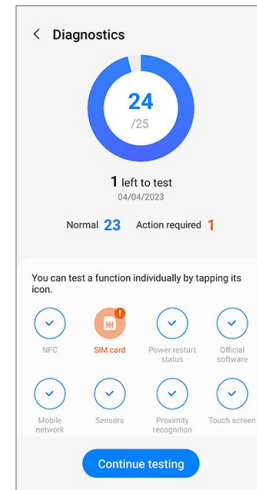


3 Tap **Test all**.

The device performs a test on all items.

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

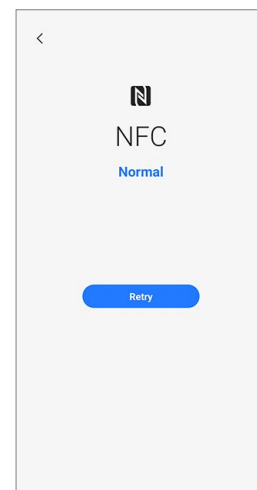
- Tick mark: Working normally
- Exclamation mark: Needs further inspection
- The test proceeds automatically, but you may need to follow the on-screen instructions depending on the test item. Keep an eye on the screen during testing to ensure smooth progress.
- If the exclamation mark appears on any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



Test Items

NFC

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

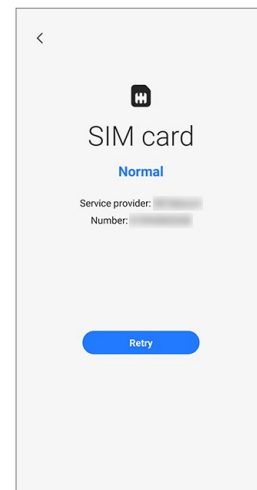


SIM card

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

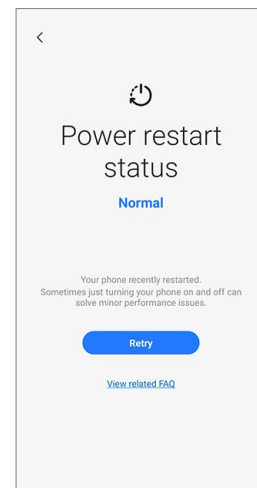


If the test result is not **Normal**, remove the SIM card from the SIM card tray and replace it. If possible, try again with another SIM card.



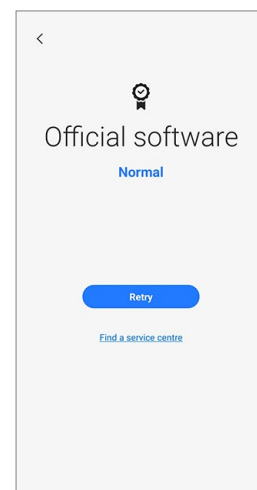
Power restart status

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



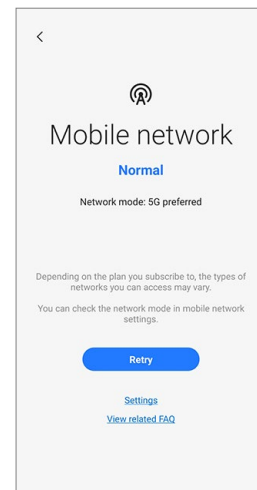
Official software

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



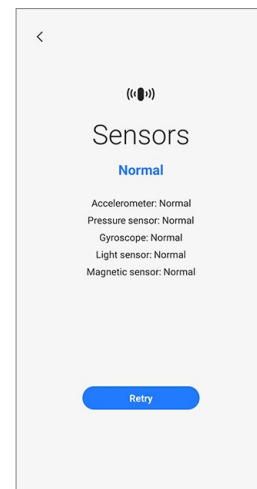
Mobile network

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



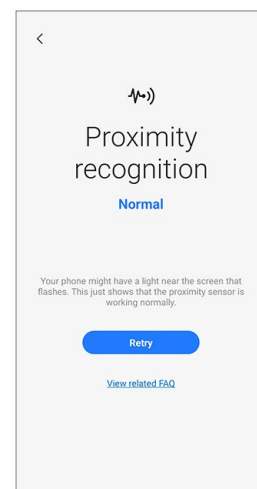
Sensors

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



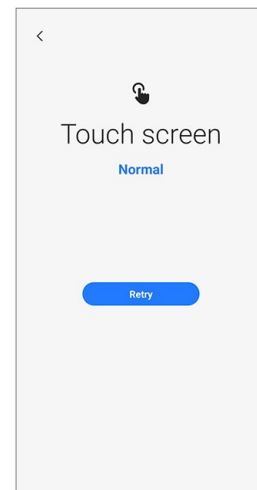
Proximity recognition

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



Touch screen

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

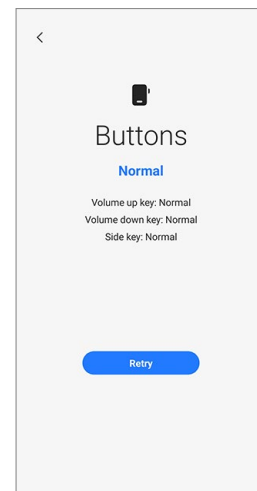


Buttons

- Function: Check whether the buttons are working normally.
- How to check:

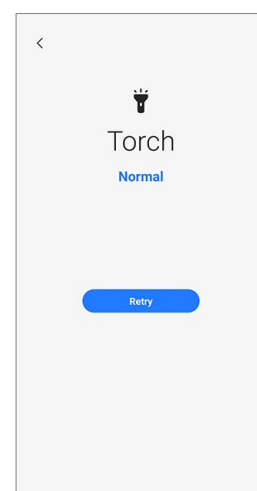
Press the buttons by following the directions on the screen.
- Provided information
 - Status: View whether the feature is working normally.
 - Button types: View the status of each button.

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



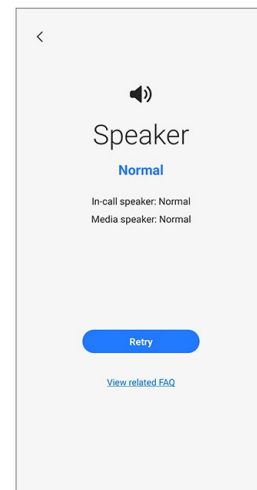
Torch

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



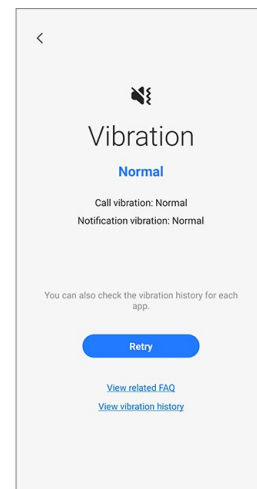
Speaker

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



Vibration

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

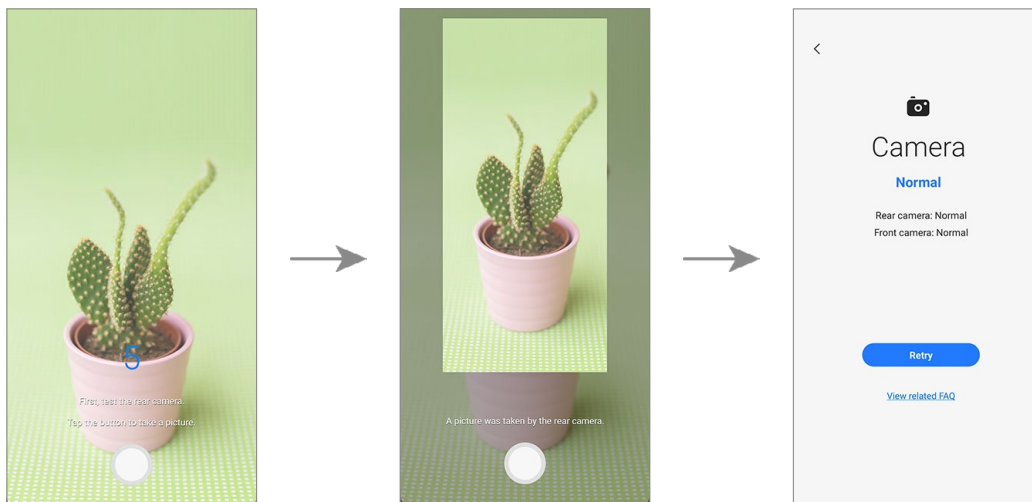


Camera

- Function: Check whether the rear and front cameras are working normally.
 - How to check:

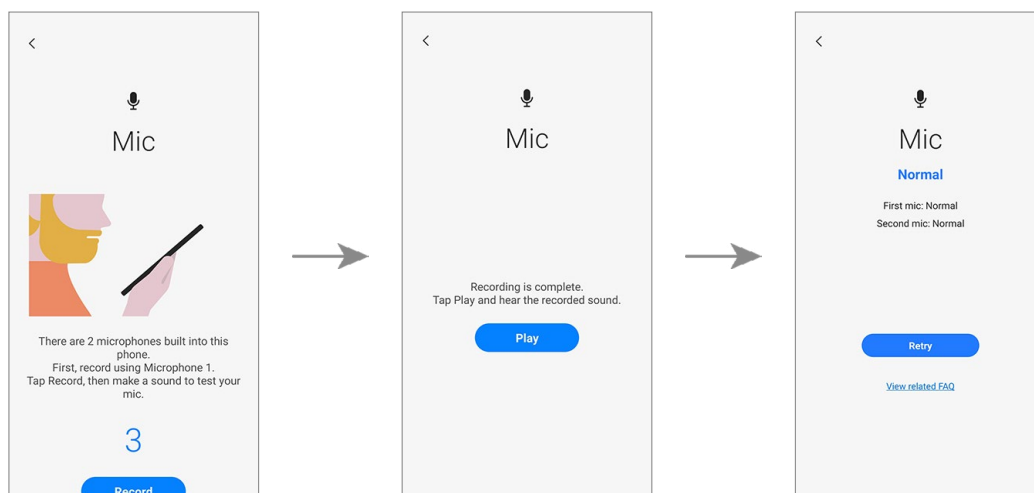
Tap the camera button to test the rear and front cameras.

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



Mic

- Function: Check whether the microphone is working normally.
 - How to check:
 - 1) Tap **Record** and say something for the recording.
 - 2) When the recording is finished, tap **Play** and select a button according to the question.
 - Provided information
 - Status: View whether the feature is working properly.
 - Mic types: View the status of each mic.
 - FAQ: View frequently asked questions.
-  • The number of tests may vary depending on the model.
- If you cannot hear anything after recording, check whether the media volume is turned up.

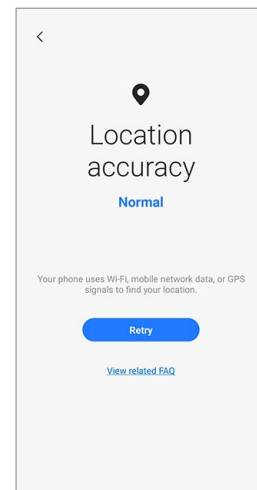


Location accuracy

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



The results might be more accurate when you test outside.

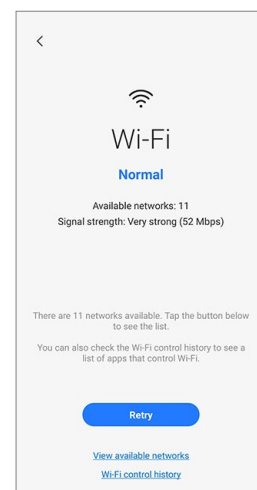


Wi-Fi

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



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

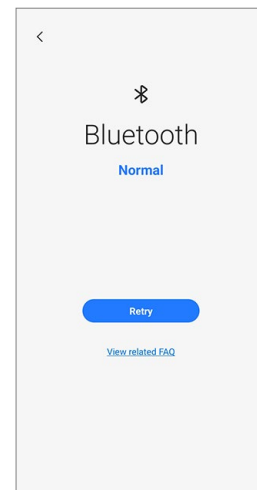


Bluetooth

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



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

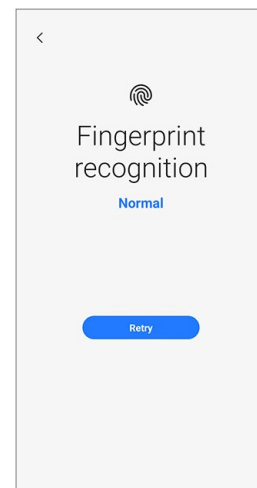


Fingerprint recognition

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



To test this feature, your fingerprint must be registered.

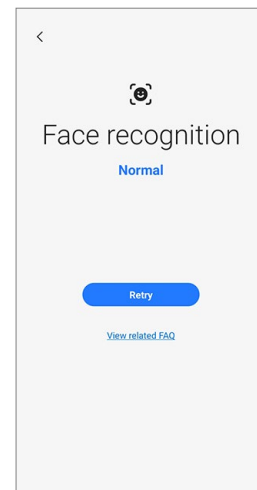


Face recognition

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



To test this feature, your face must be registered.

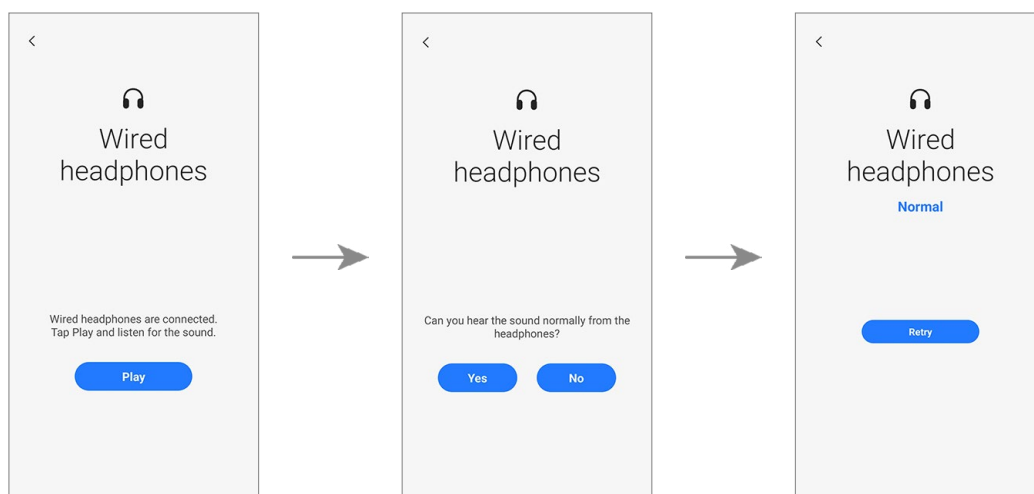


Wired headphones

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

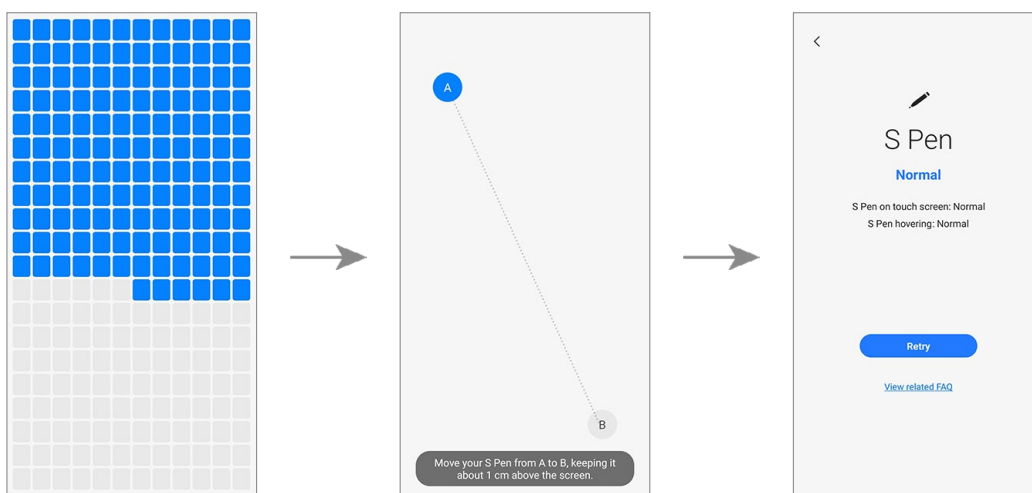


To test this feature, you must connect headphones.



S Pen

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

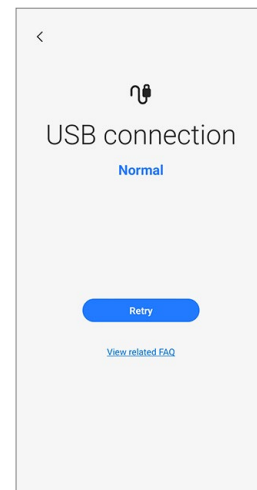


USB connection

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



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

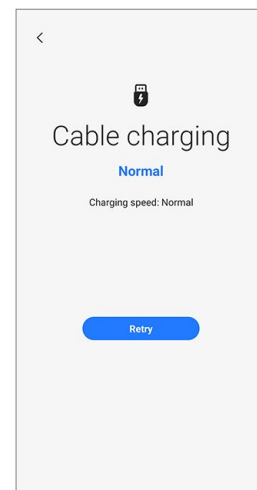


Cable charging

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



Use only Samsung-approved chargers.

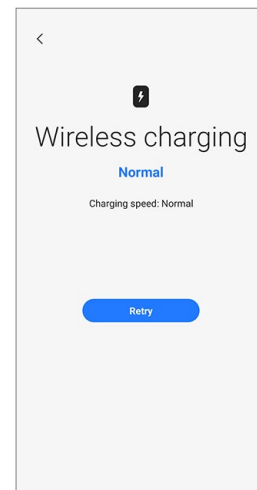


Wireless charging

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

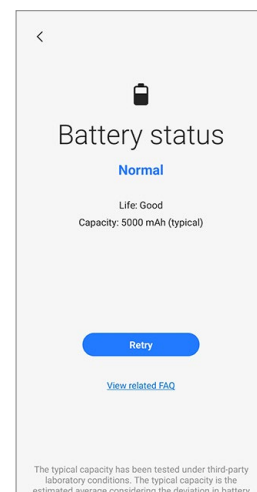


Use only Samsung-approved wireless chargers.



Battery status

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



Calibrations

Calibrations

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

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



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

Used Parts and Calibration Functions in Supported Models

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

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



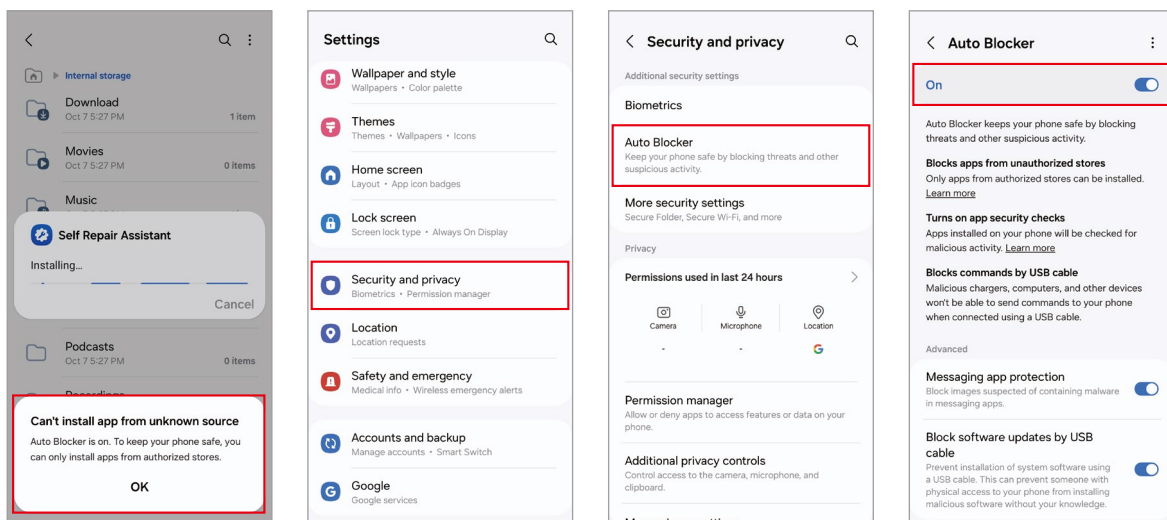
- Depending on the model, the screen module may include batteries. So when the screen module is replaced, the battery also has to be selected and a battery cycle reset must be performed.
- In the Fold models, touch screen panel calibration is performed for both the main and cover screens.
- Digital hall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

Using the Self Repair Assistant App

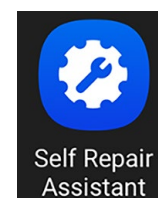
1 Download the **Self Repair Assistant** app from **Galaxy Store**.



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



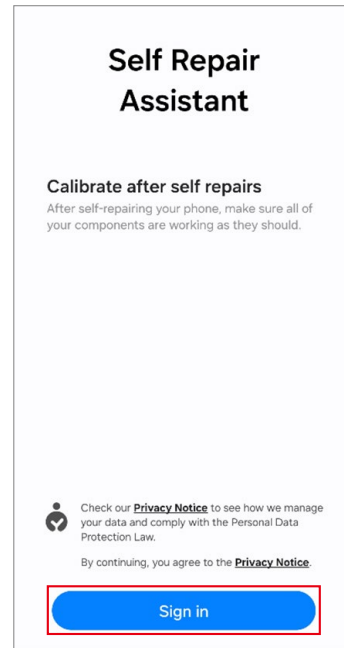
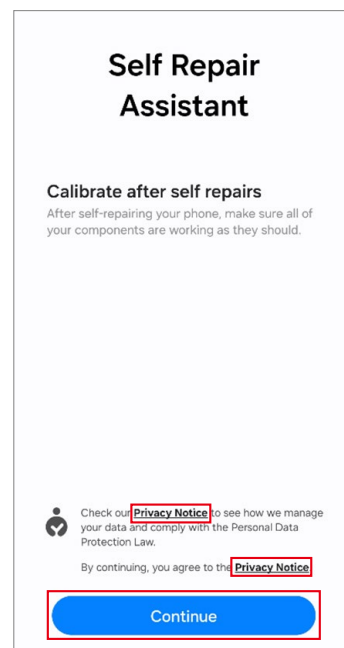
2 Launch the **Self Repair Assistant** app.



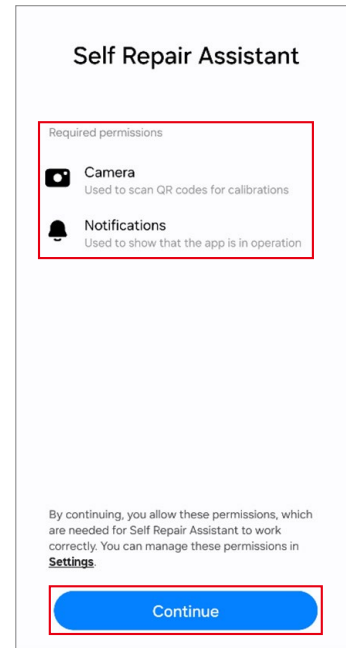
3 Read Privacy Notice and tap **Continue**.



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



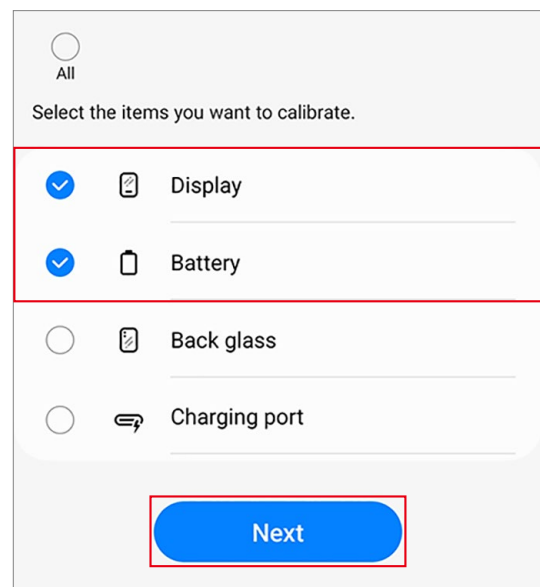
4 Check permissions and tap **Continue**.



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



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



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

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

Optical fingerprint sensor calibration

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

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

Start

Skip

Camera range sensor calibration

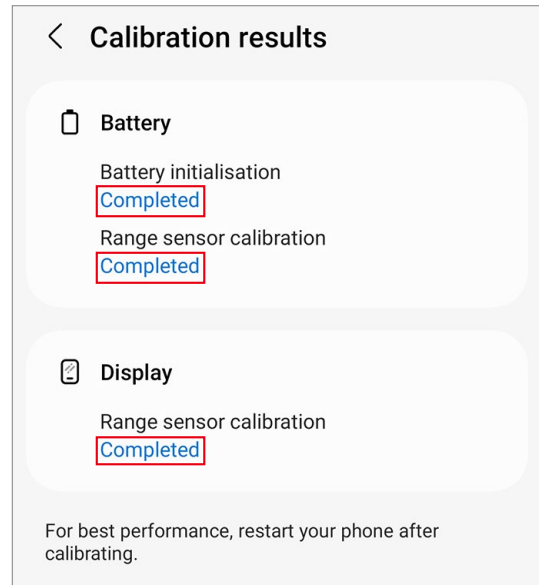
This calibration needs to be done in the dark. Move to a dark room before starting this calibration.

Start

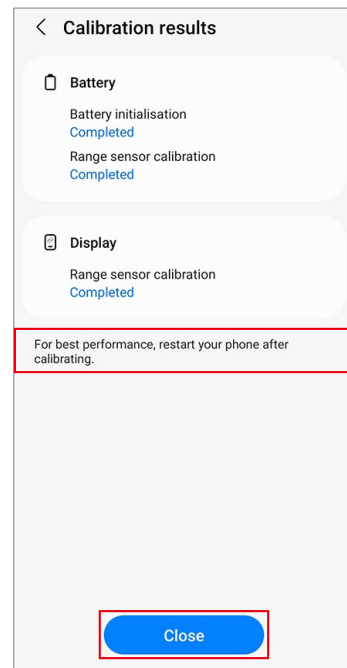
Skip

7 Check the results of each calibration item.

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



8 On the calibration results page, tap **Close** to close the app.
Restart your device to finish calibrating.



Optical Fingerprint Sensor Calibration

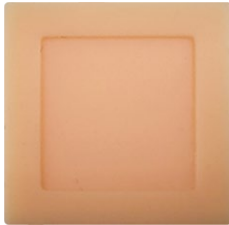
Whenever the screen is replaced, the optical fingerprint sensor must be calibrated to guarantee optimised fingerprint sensor performance for devices that have it.

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



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

White calibration box



Black calibration box



3D fingerprint dummy rubber

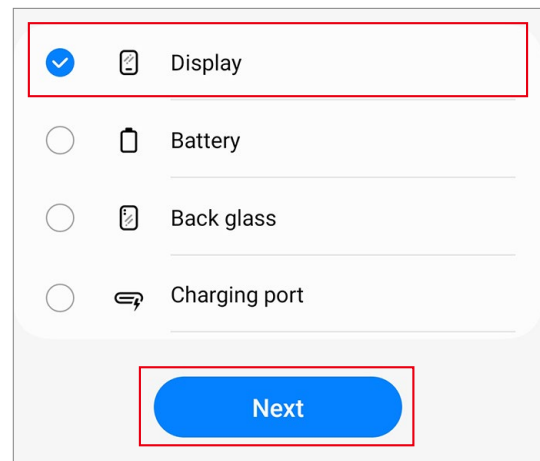


1 Launch the **Self Repair Assistant** app.

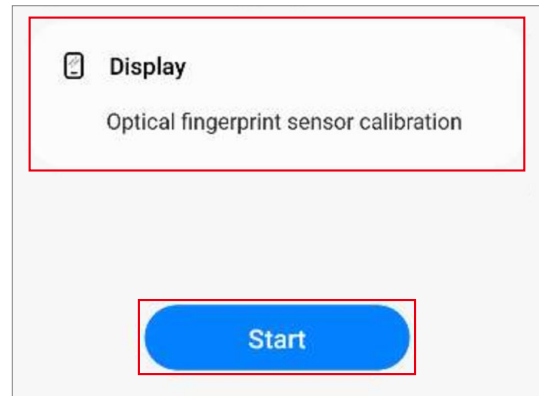
2 Tap **Display** → **Next**.



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

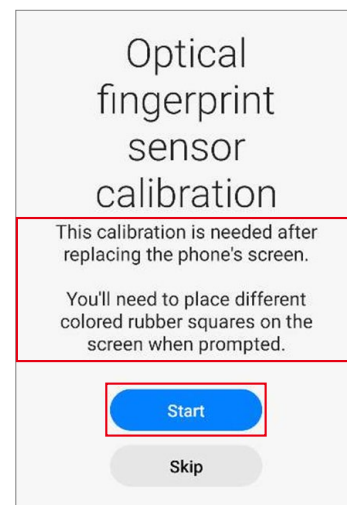


- 3 Check the part and calibration and then tap **Start**.



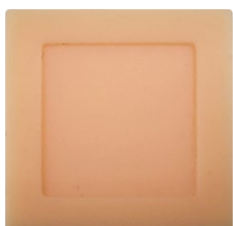
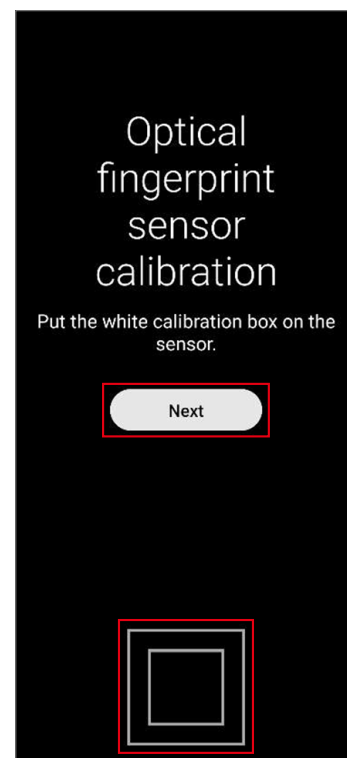
- 4 Read the on-screen instructions and tap **Start**.

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



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

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



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



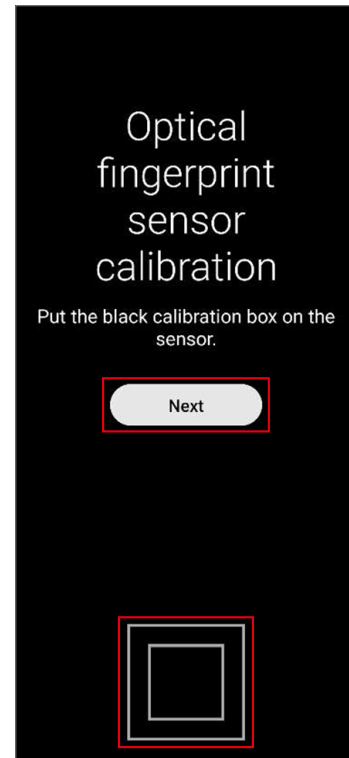
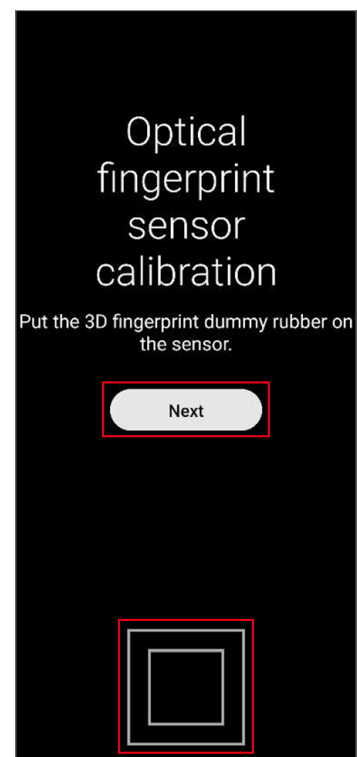
- The black calibration box must be prepared before you start.
- The bottom side of the rubber that is shaped like a square should be located on the square guide line.



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



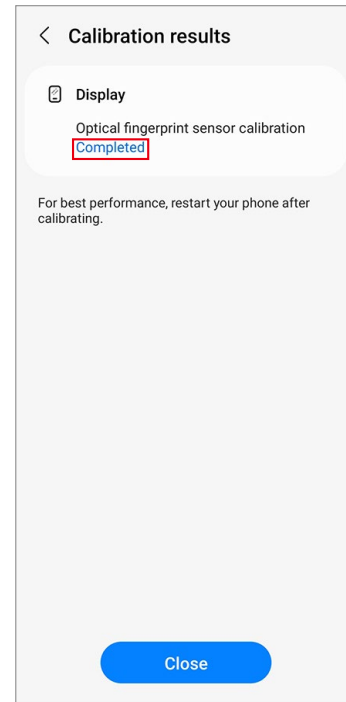
- The 3D fingerprint dummy rubber must be prepared before you start.
- The bottom side of the rubber that is shaped like a square should be located on the square guide line. (Do not place the pattern horizontally on the 3D fingerprint dummy rubber.)



8 Check the result of the calibration.



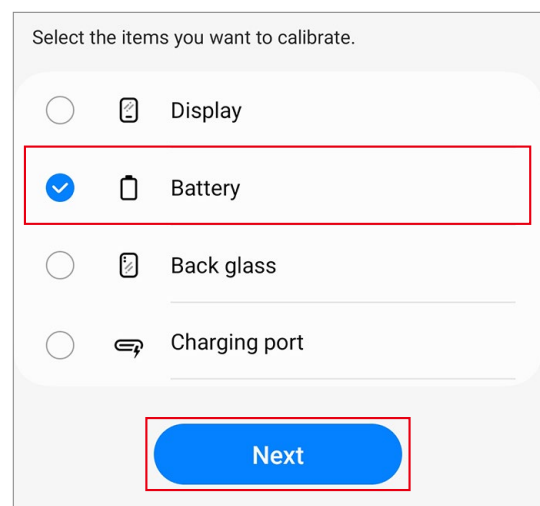
Completed appears only when the calibration is successfully completed. If **Completed** does not appear, try calibrating again.



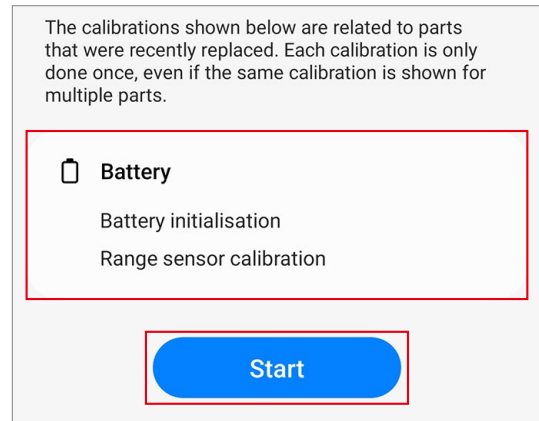
Resetting the Battery Cycle Count

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

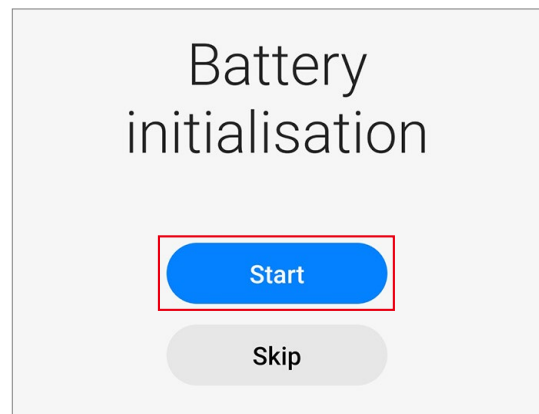
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced.
Tap **Battery** → **Next**.



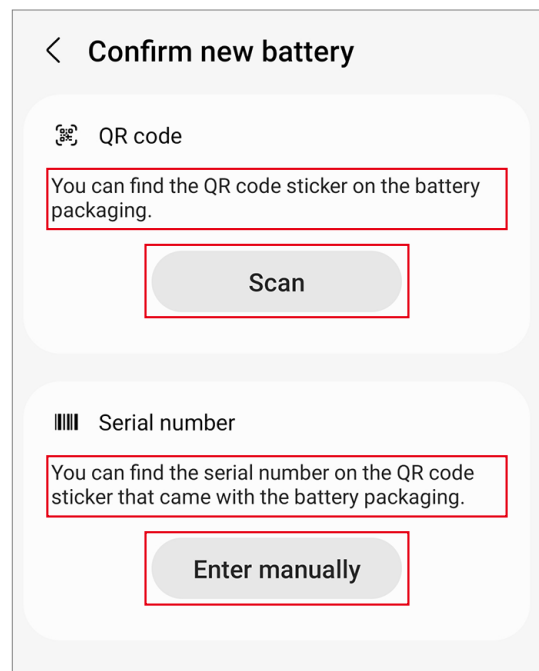
3 Check part and calibration and tap **Start**.



4 Tap **Start**.



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



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

The reset will begin.



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



< Confirm new battery

Battery serial number

- 7 Check the calibration results.

< Calibration results

Battery

Battery initialisation
Completed

Range sensor calibration
Completed

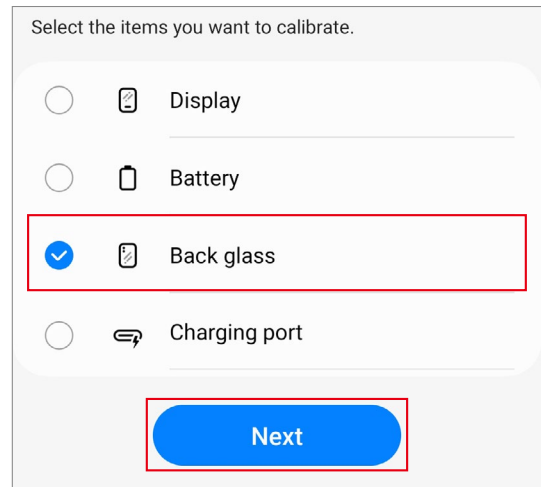
Range Sensor Calibration

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**.

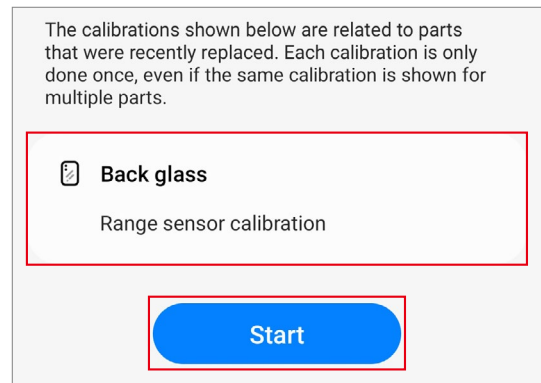


Select the items you want to calibrate.

- ☐  Display
- ☐  Battery
- ☒  Back glass
- ☐  Charging port

Next

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

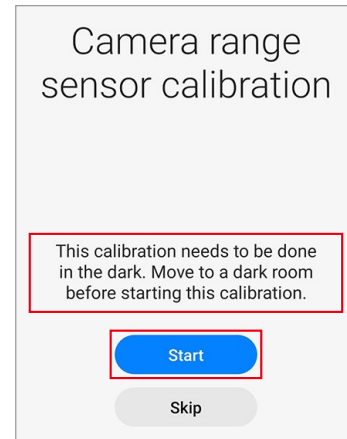


The calibrations shown below are related to parts that were recently replaced. Each calibration is only done once, even if the same calibration is shown for multiple parts.

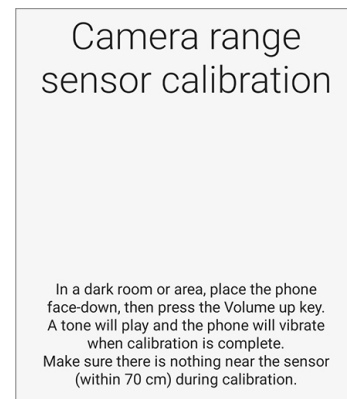
-  **Back glass**
Range sensor calibration

Start

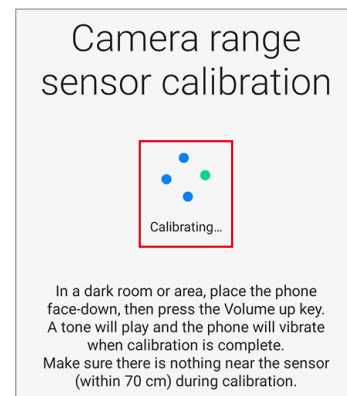
- 4 Read the on-screen instructions and tap **Start**.



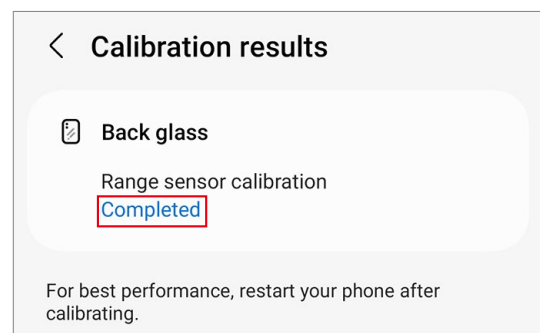
- 5 In a dark room or area, place the phone face-down, then press the Volume button.



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



- 7 Check the calibration result.



Touch Screen Panel Calibration

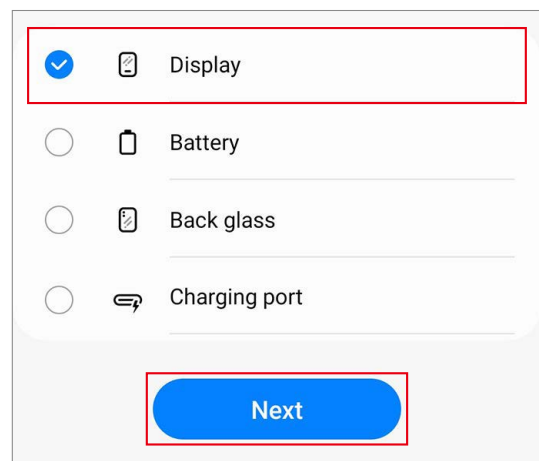
When replacing screens, touch screen panel calibration is required to ensure accurate touch input.

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

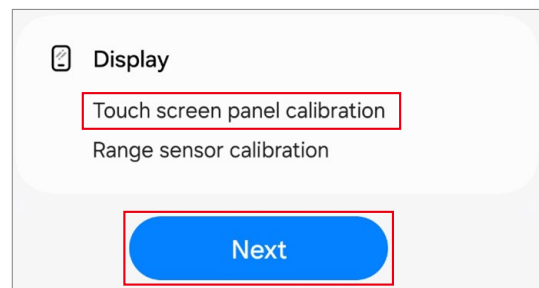


In the Fold models, touch screen panel calibration is performed for both the main and cover screens.

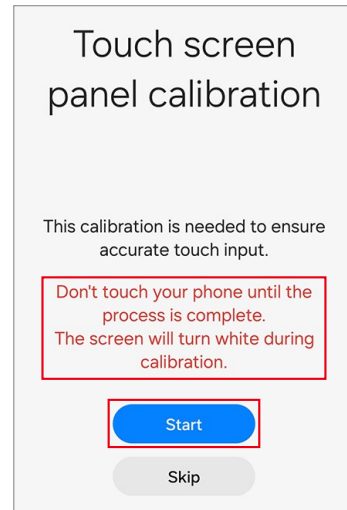
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



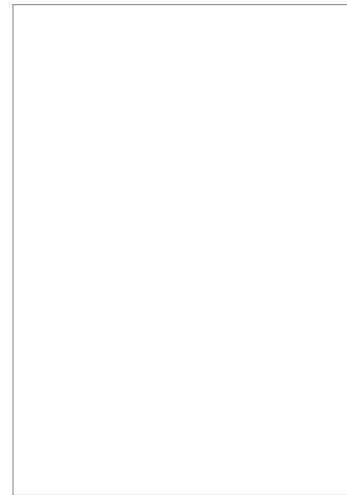
- 3 Check part and calibration and tap **Next**.



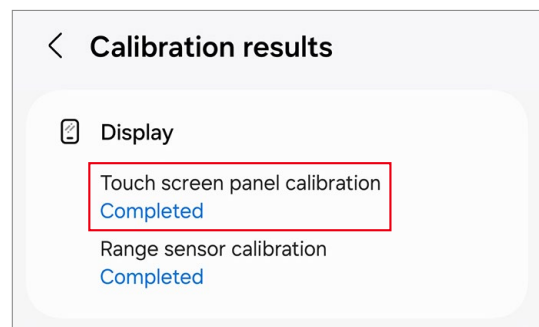
- 4 Read the on-screen instructions and tap **Start**.



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



- 6 Check the calibration result.

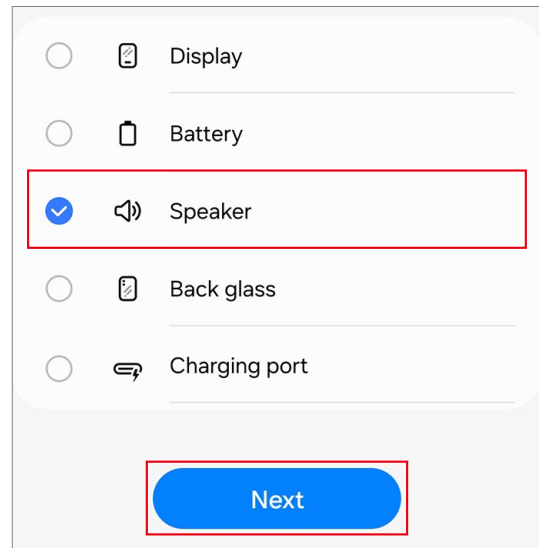


Speaker Calibration

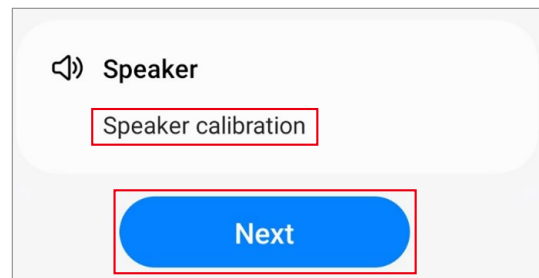
When replacing speakers, the speaker must be calibrated to guarantee optimised speaker performance for devices that have it.

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

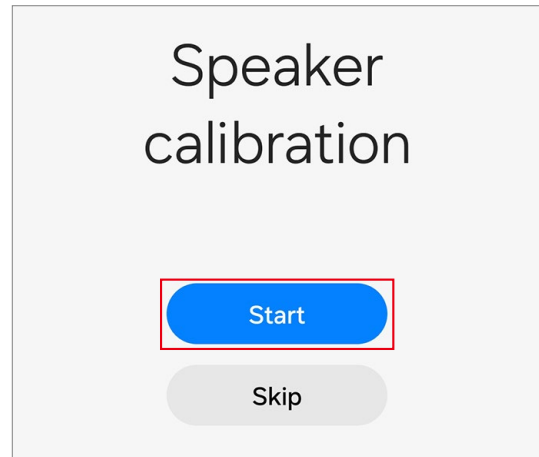
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



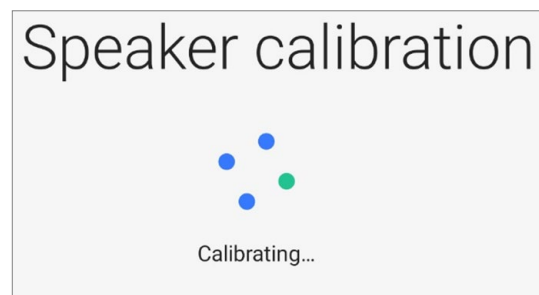
- 3 Check part and calibration and tap **Next**.



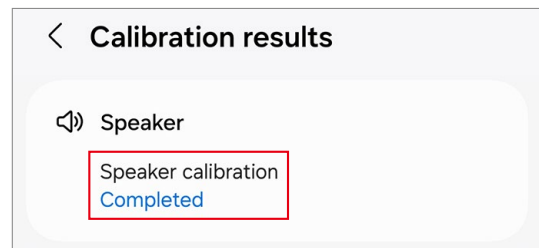
4 Tap **Start**.



5 The calibration will perform automatically.



6 Check the calibration result.



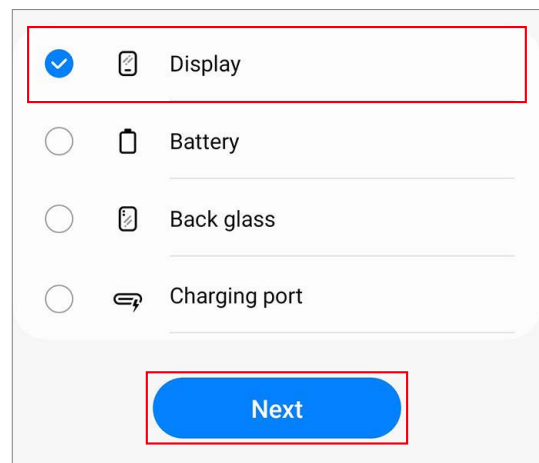
Under-display Camera Calibration (Fold Models Only)

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

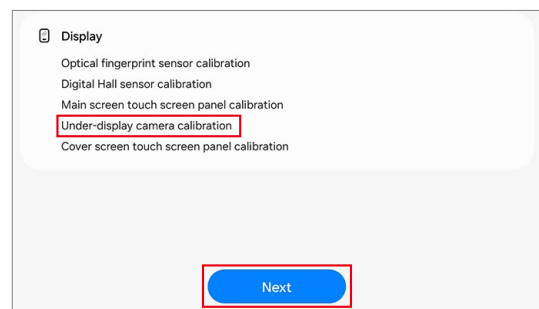
Under-display camera calibration is available through the **Self Repair Assistant** app.

 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.

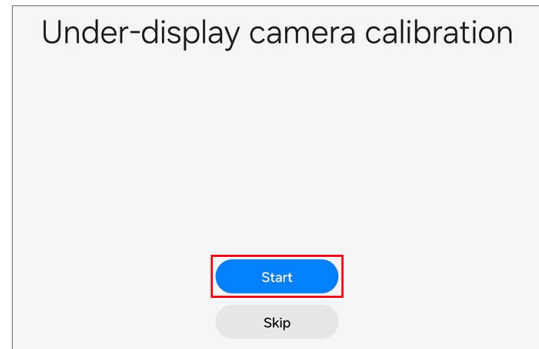
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



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

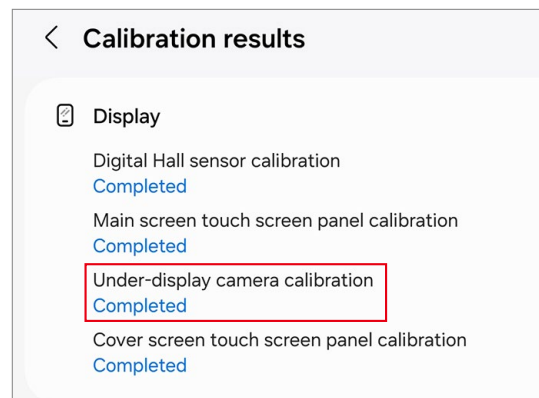


4 Tap **Start**.



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.

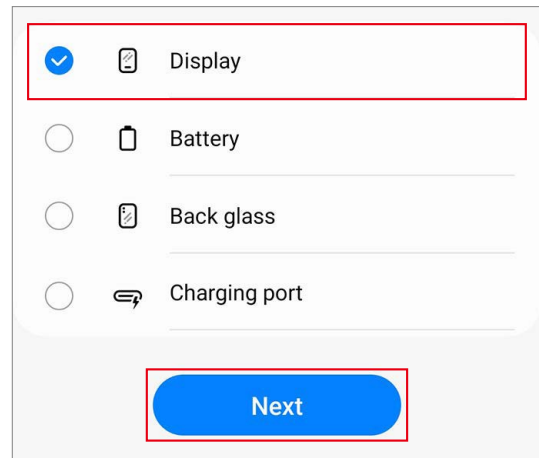


- This feature may not be available depending on the model. The availability of this feature can be automatically checked in the Self Repair Assistant app, so please follow the guidance of the Self Repair Assistant app.
- **For Fold models:** If the main screen does not turn on after being replaced (the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

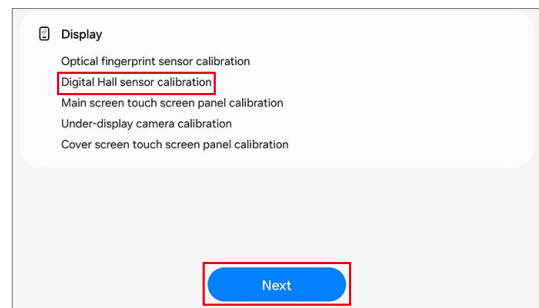
When calibration is complete, the main screen will turn on normally.

- **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.

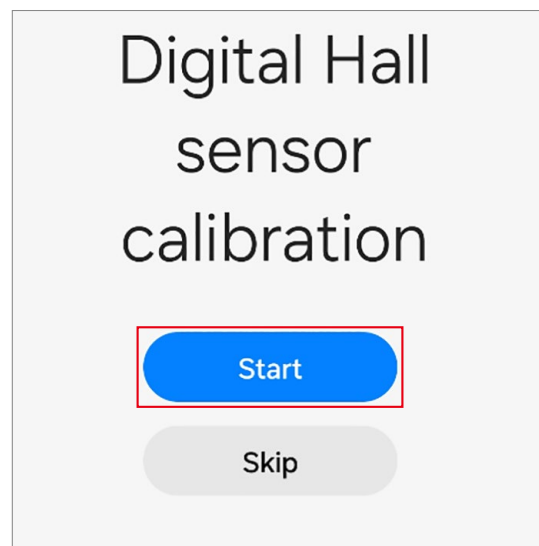
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



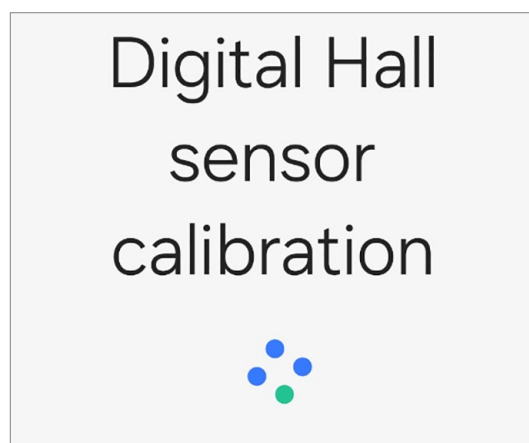
- 3 Check part and calibration and tap **Next**.



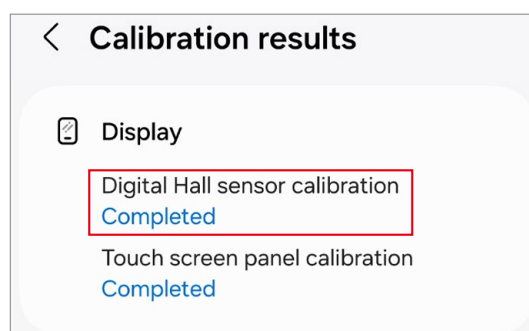
- 4 Tap **Start**.



5 The calibration will perform automatically.



6 Check the calibration result.

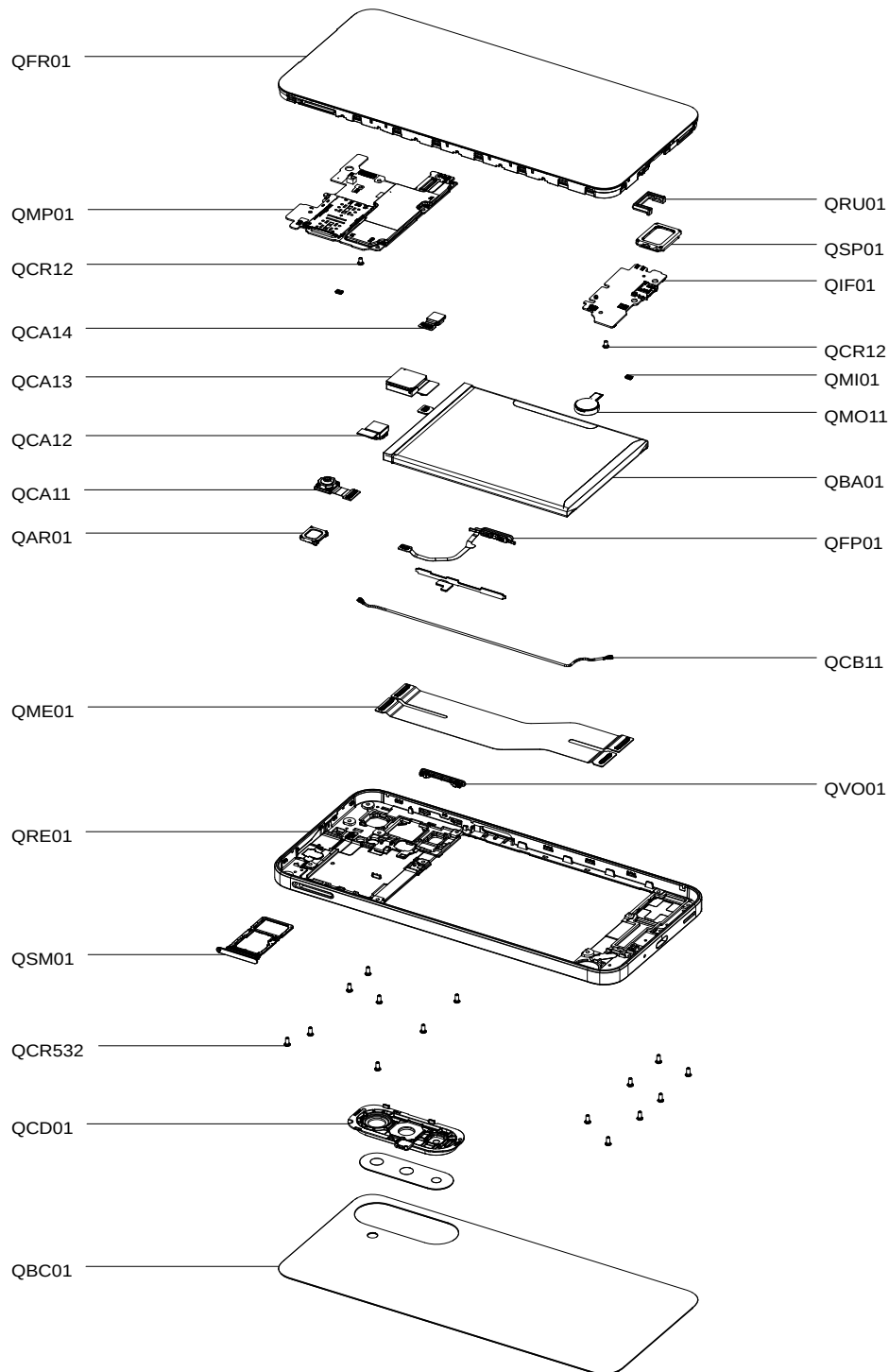


Exploded View and Parts List



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

Exploded View



Parts List

Number	Name
QCR12	Screw 1530
QCR532	Screw 3532
QCA14	Rear Camera (Macro)
QCA12	Rear Camera (Ultra Wide)
QCA11	Front Camera
QCA13	Rear Camera (Wide)
QFP01	Side Button (Fingerprint Recognition Sensor)
QRE01	Bracket
QV001	Volume Button
QSP01	Speaker
QAR01	Receiver
QMO11	Vibrator Motor
QCB11	Antenna Flex Cable(Blue)
QRU01	Charging Port Rubber
QIF01	Charging Port
QMI01	Microphone
QCD01	Camera Deco
QSM01	SIM Card Tray
QBC01	Back Cover
QME01	Main Flex Cable (Main Board to Charging Port)
QFR01	Screen Module
QMP01	Main Board (PBA)
QBA01	Battery

Disassembly and Assembly

Tools for Disassembly and Assembly

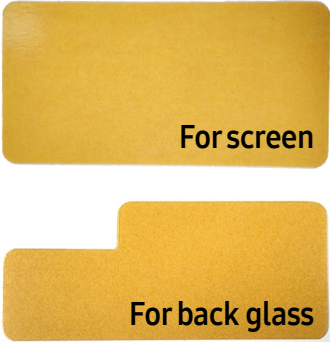
When repairing devices, you absolutely must wear protective equipment for your safety.

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

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

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, it is required to use the round tip metal tweezers.
Heating Bag		Tool for removing the back cover and other parts
Top Press Tray		Tool to press the back cover, screen or battery by covering the bottom press tray

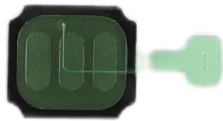
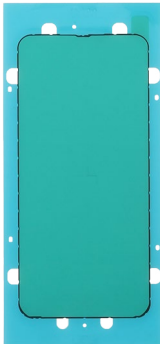
Tool & Part Code	Image	Description
Top Rubber Pad		<p>Tool to press the back cover, screen or battery by placing into the top press tray</p> <p> • The rubber pads may vary depending on their use for the screen, battery or back cover.</p> <p>• This tool may vary depending on the device.</p>
Bottom Press Tray		<p>Tool for pressing the back cover, screen or battery</p>
Bottom Rubber Pad		<p>Tool to press the back cover by placing into the bottom press tray</p>

Tool & Part Code	Image	Description
Battery Rubber Pad		Tool to press the battery by placing into the bottom press tray.
Acrylic Protective Cover for Broken Glass		Prevents injuries and scattering caused by broken glass

Fasteners (Adhesives and Materials) for Assembly

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

Item	Quantity	Image	Description
Back Cover Adhesive tape	1		Double sided adhesive tape for attaching the back cover to the device frame
Screw 3532	15		Screws for the rear bracket
Screw 1530	2		Screw for the main board (1 ea/Black) Screw for the charging port (1 ea/Black)
Vibrator Motor Adhesive Tape	1		Double sided adhesive tape for attaching the vibrator motor to screen module
Screen Connector Adhesive Tape	1		Double sided adhesive tape for attaching the screen module connector

Item	Quantity	Image	Description
Top Receiver Adhesive Tape	1		Double sided adhesive tape for attaching the receiver to screen module
Bottom Speaker Adhesive Tape	1		Double sided adhesive tape for attaching the speaker to screen module
Screen Side Adhesive Tape	1		Double sided adhesive tape for attaching the sides of the screen to the device frame  This tape is only available when the screen itself is repaired.
Screen Left Adhesive Tape	1		Double sided adhesive tape for attaching the left of the screen to the device frame  This tape is only available when the screen itself is repaired.
Screen Right Adhesive Tape	1		Double sided adhesive tape for attaching the right of the screen to the device frame  This tape is only available when the screen itself is repaired.

Disassembly and Reassembly for replacement



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

Before disassembling:

- Unplug and turn off 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:

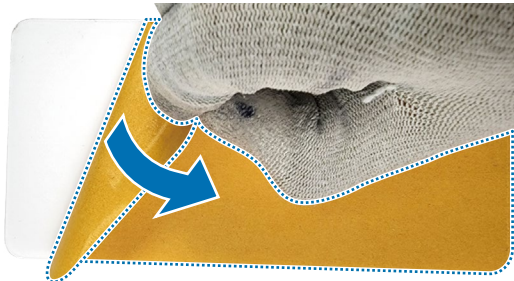
- 1 Wear safety glasses and cut-resistant gloves.
- 2 Remove the release film of the acrylic protective cover.
- 3 To prevent injuries and scattering caused by broken glass, attach an acrylic protective cover.



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.

-  • Screen glass cannot be separated alone from the AMOLED screen or device frame.
- If the glass is broken, it needs to replace the whole screen module.

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.



Back Cover

Disassembly



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



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

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



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



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



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

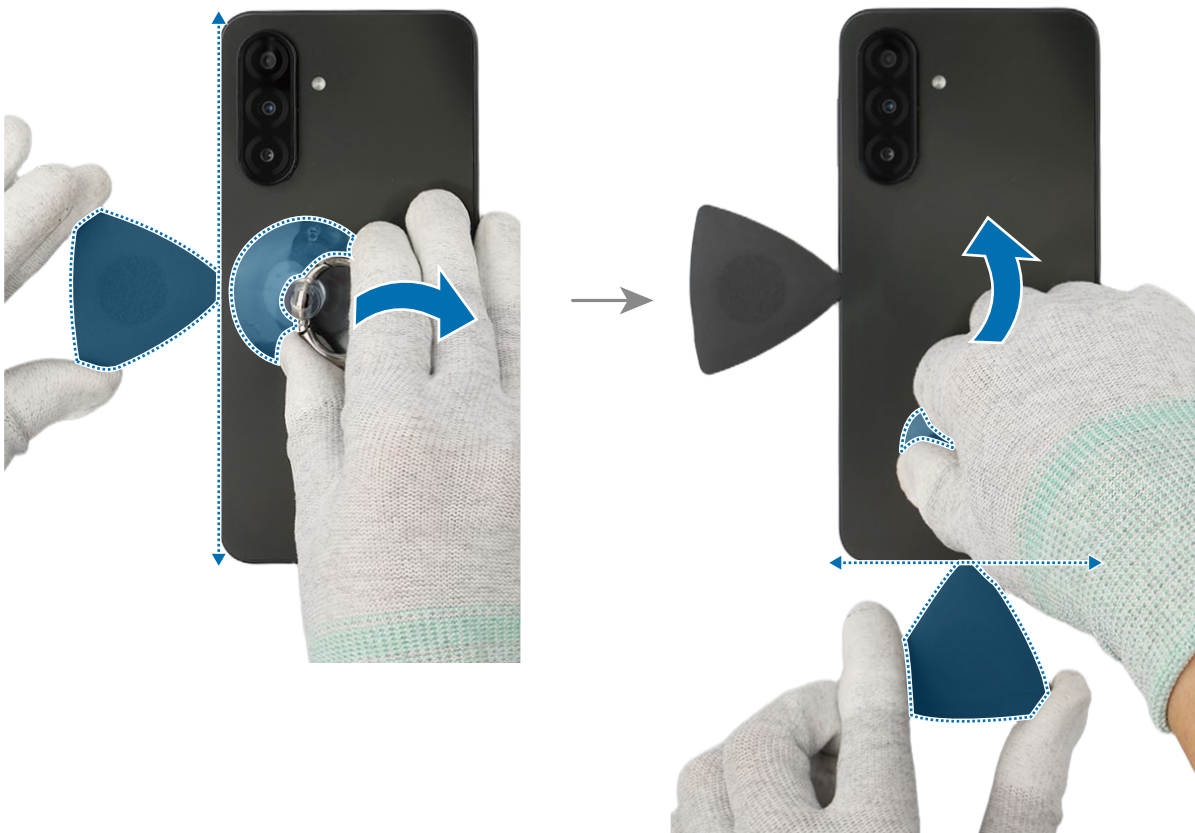
 For separable handle suction cups, be careful not to injure yourself as the handle can be parted during use.



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



- 3 While pulling up the suction cup with strong, steady force to create the gap between the back cover and the screen module, place the opening pick in the gap between the back cover and the screen module and slide the opening pick back and forth along the edge to slice through the adhesive. Repeat this on the all sides of the back cover and slice through the adhesive. Lift up the back cover slowly and remove it gently from the device.
- ❗ As the back cover can be damaged by excessive force, be careful not to damage the back cover.
 - As the internal circuitry can be damaged, do not insert the opening pick more than 3 mm deep.
 - 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.
 - 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.





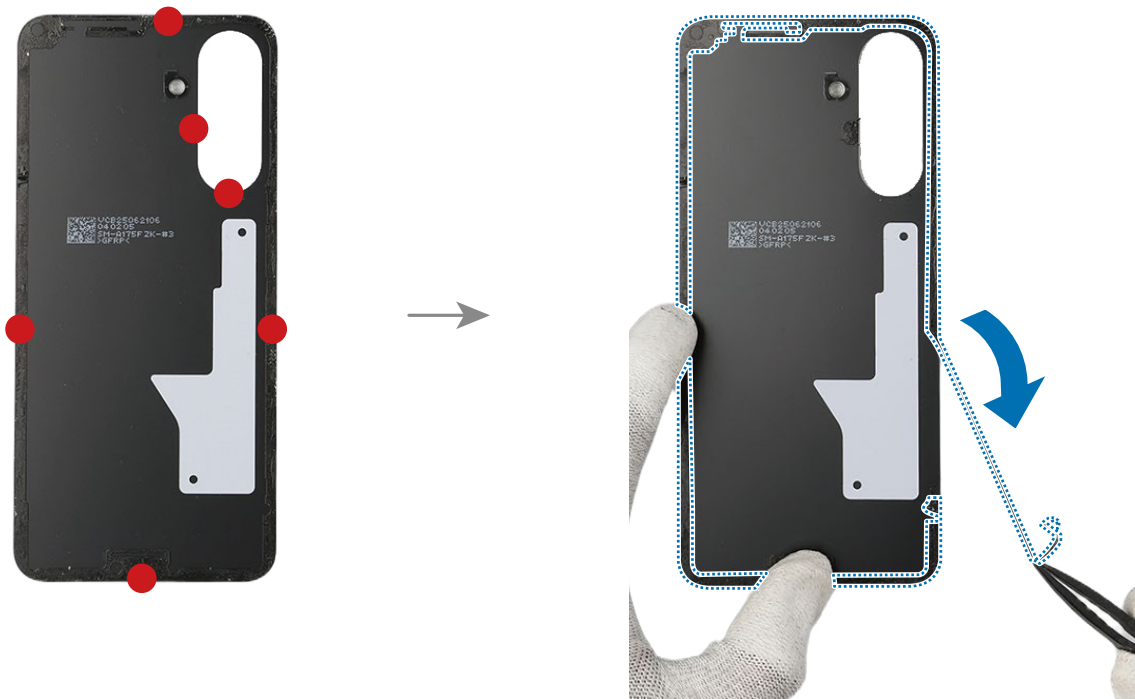
- 4 Using the tweezers, lift up on the separator groove of the camera deco and remove it carefully from the back cover.

⚠ Be careful not to damage the camera deco.



Reassembly

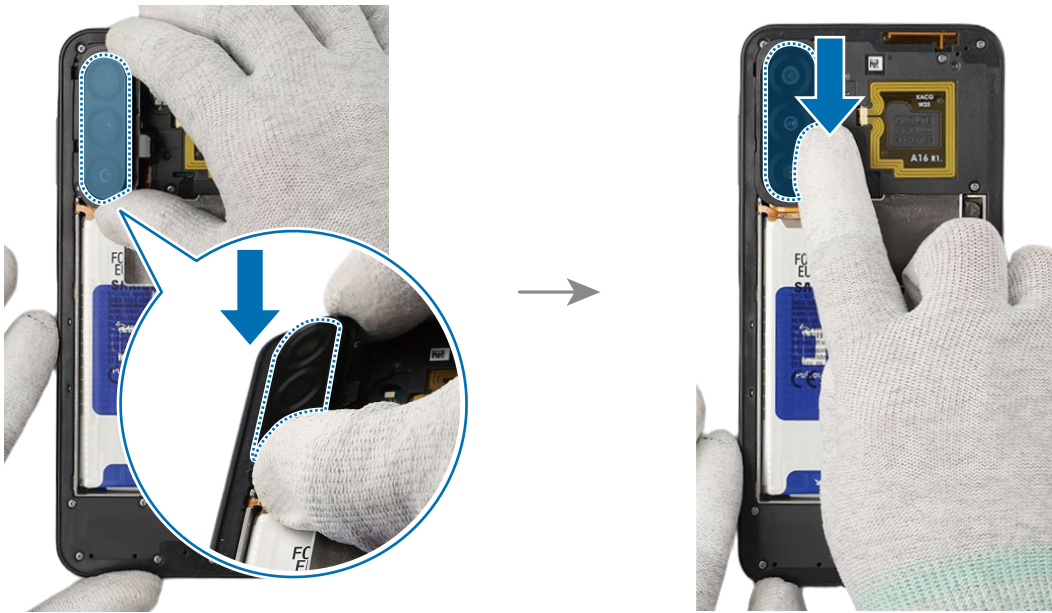
- ⚠ Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.
 - ⚠ Before attaching the back cover, make absolutely sure that there are no screws, miscellaneous parts, or other foreign 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.
 - ⚠ • Make sure to remove any residual tapes (●) attached to the inside of the back cover before reassembling the device.
 - Be careful not to damage the near components.
 - 👉 Apply additional heat with a microwaveable heating bag if you're having trouble separating the adhesive.



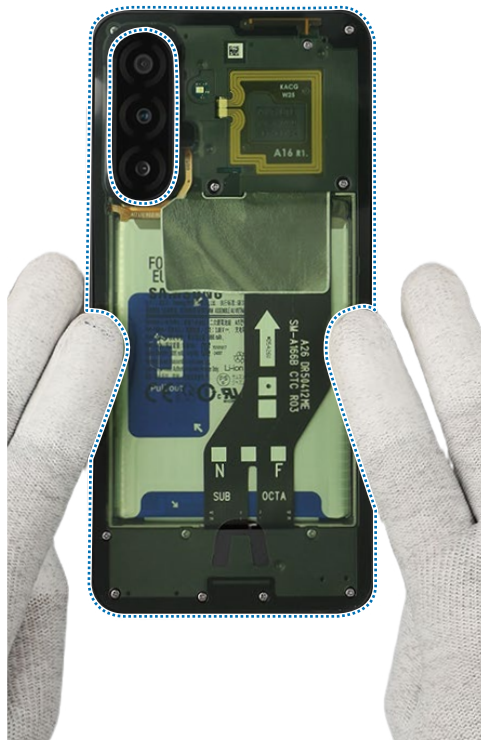
2 Using your fingers, insert the camera deco carefully from the left side and assemble it. Push down the camera deco softly with your fingers so that it can be assembled well.



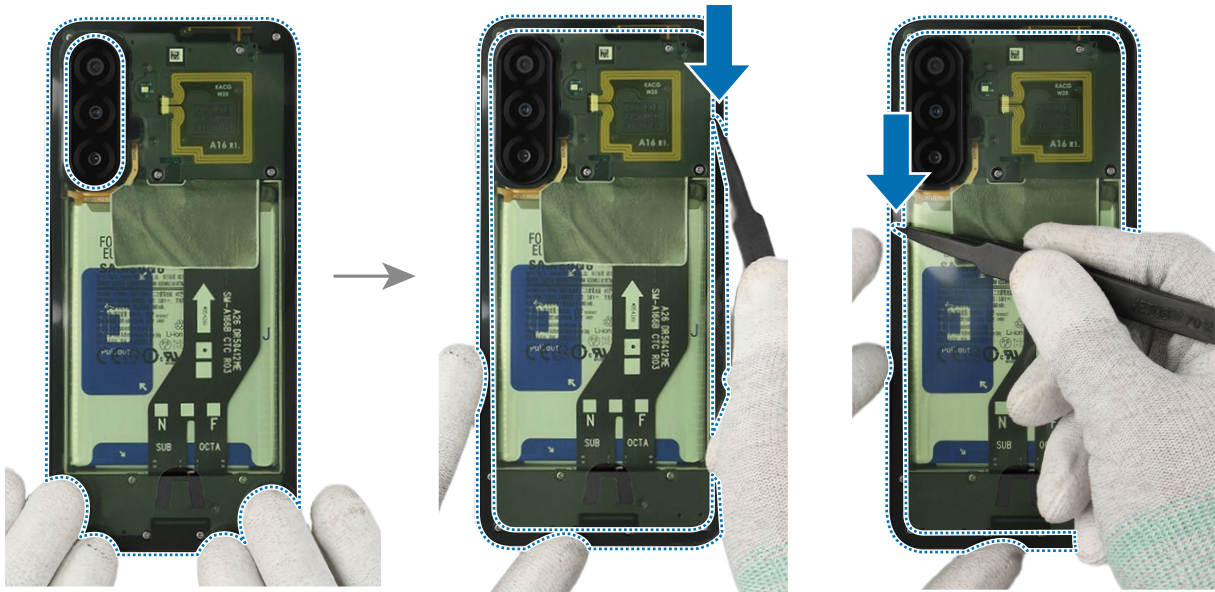
- Be careful not to damage the camera and camera deco.
- Be careful not to damage the camera lens.
- Be careful not to damage the near components.



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



- 4 Using the tweezers, gently press around the edges and camera deco to ensure a secure fit.



- 5 Remove the release film of the adhesive tape with grabbing the film handle.



- 6 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 the some gap, remove the back cover and attach it again. Some foreign materials can be inside the device.



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



8 If the press tray is bundled with the repair parts you ordered, check for the steps of the [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 15 screws at the 15 different points on the rear and remove them using a cross-head screwdriver.

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



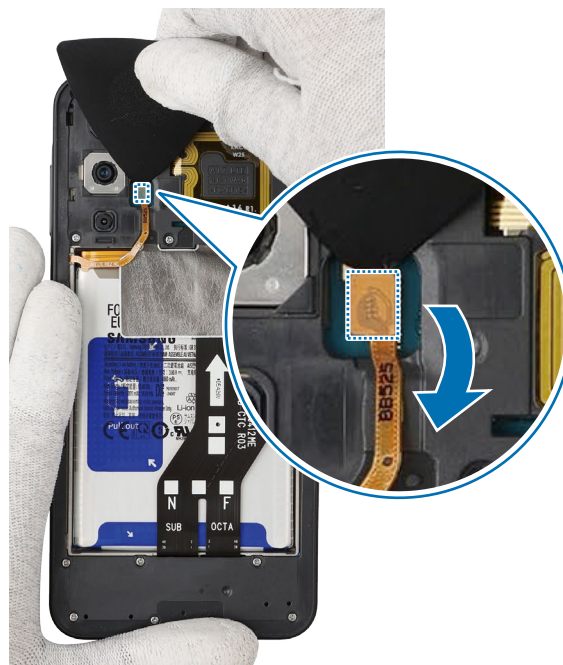
- 2 Using the opening pick, separate the fingerprint recognition sensor connector from the main board. Insert the opening pick in the gap between the left edge of bracket and the device module, and increase the gap by moving it on the left edge. Slide the opening pick along the left edge and separate the edge of bracket carefully from the screen module. Repeat this on all sides and once the bracket is completely separated from the screen module, lift it up slowly and carefully.

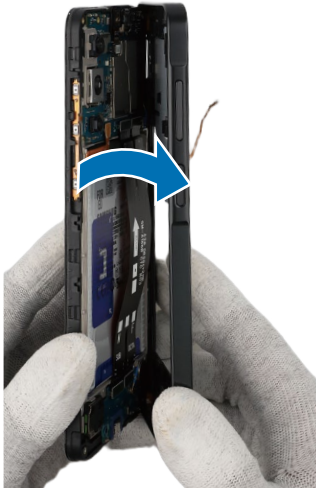


- Be careful not to damage the battery.



- When removing the connectors, be careful not to damage the cable.
- Be careful not to damage the near components.
- As the bracket can be damaged by excessive force, be careful not to damage the bracket.





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



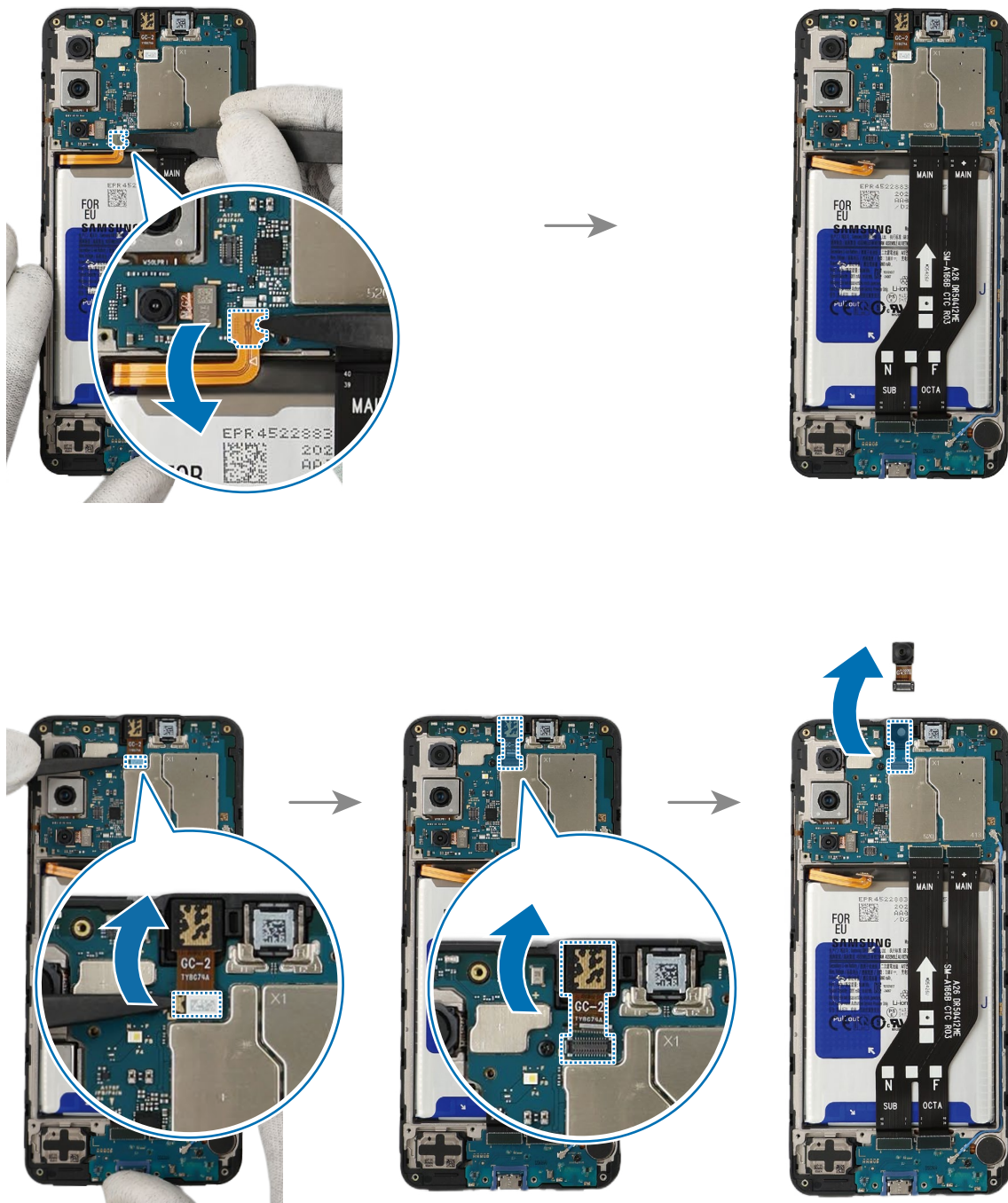
- Make sure to first disconnect the battery connector for your own safety.

- Be careful not to damage the battery.



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

- Be careful not to damage the camera and the near components.

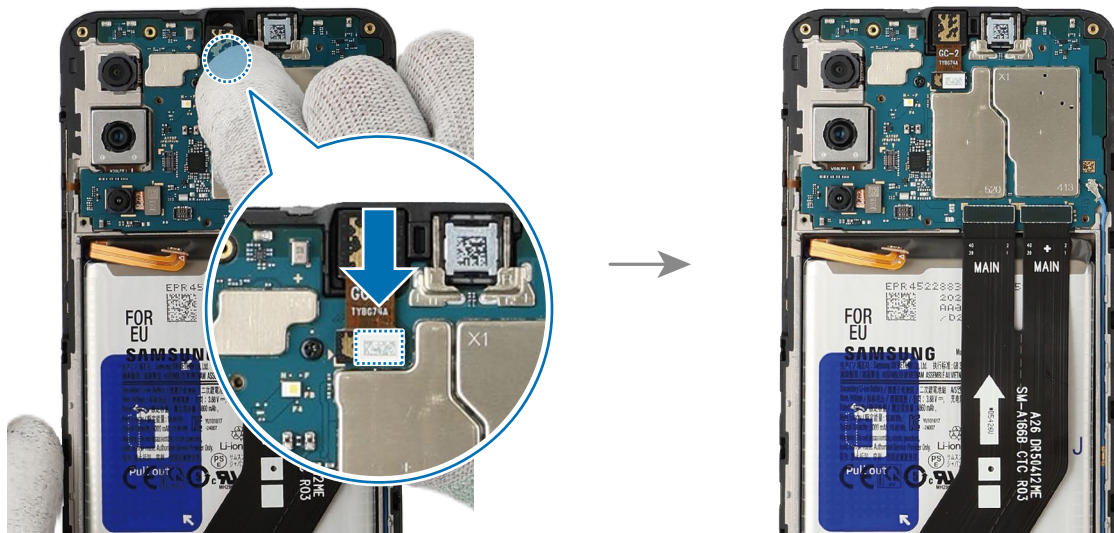


Reassembly

 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 Place the front camera in the camera hole so that the lens faces forward, and gently insert the front camera. Connect the camera connector carefully on the main board.

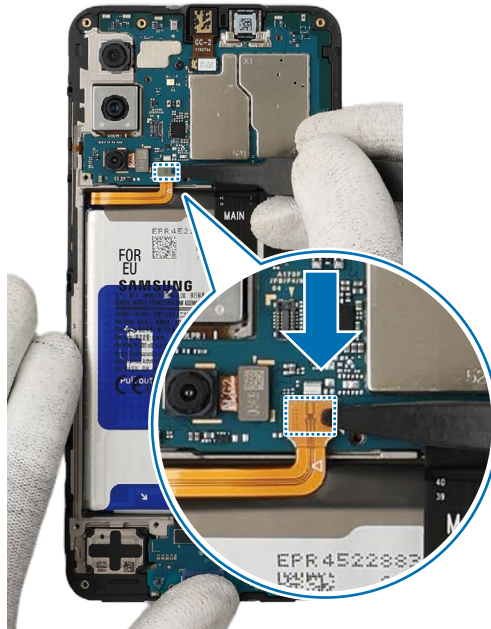
-  • Be careful not to damage the camera lens and the near components.
- Be careful not to damage the main board.
- Be careful not to damage and scratch the camera module.



2 Connect the battery connector to the main board.

⚠ Be careful not to damage the battery.

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



3 Attach the rear bracket carefully from the bottom.

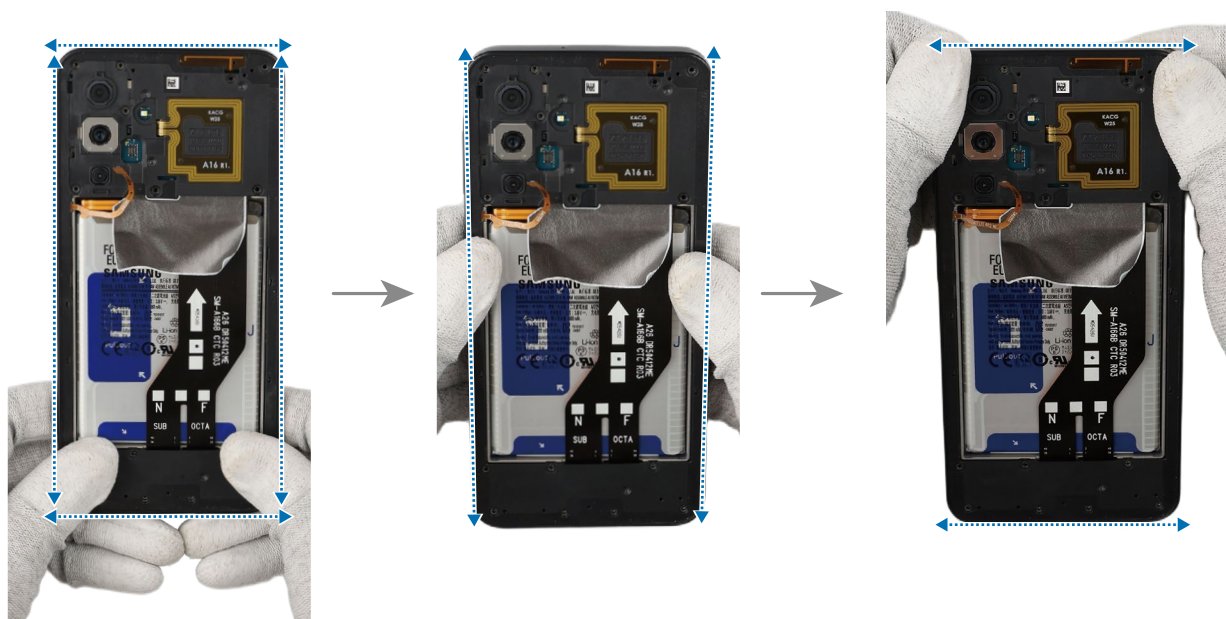
⚠ As the bracket can be damaged by excessive force, be careful not to damage the bracket.



- 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 battery and near components.

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



- 5 Check the screws 3532 (15 ea) at the 15 different points and fasten the 15 screws.

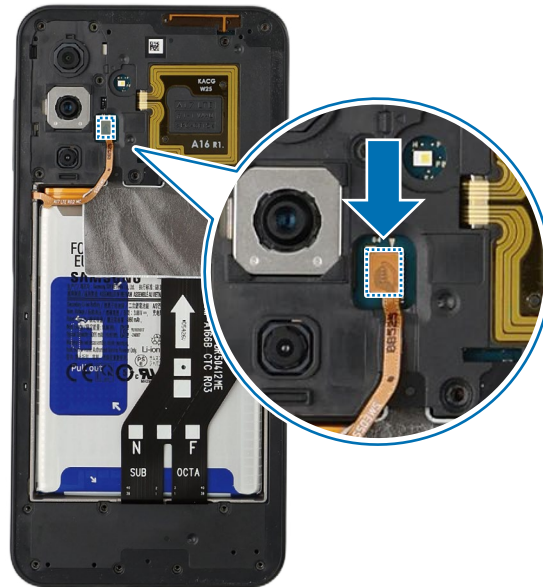
⚠ Be careful not to damage the near components.



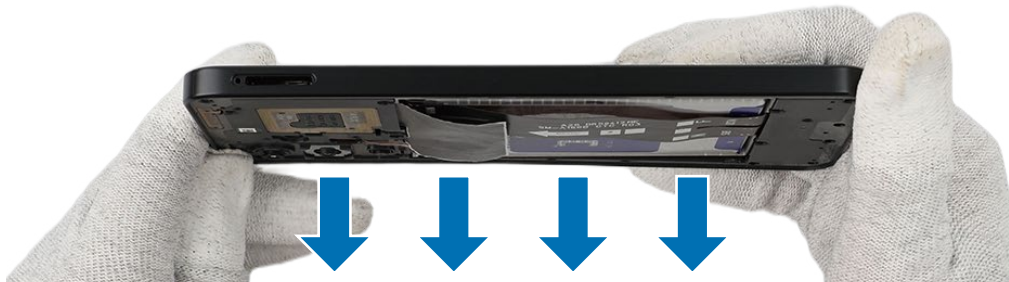
6 Connect the fingerprint recognition sensor connector to the main board.

⚠ Be careful not to damage the battery.

⚠ Be careful not to damage the near components.



7 Check carefully 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 up to the bracket.



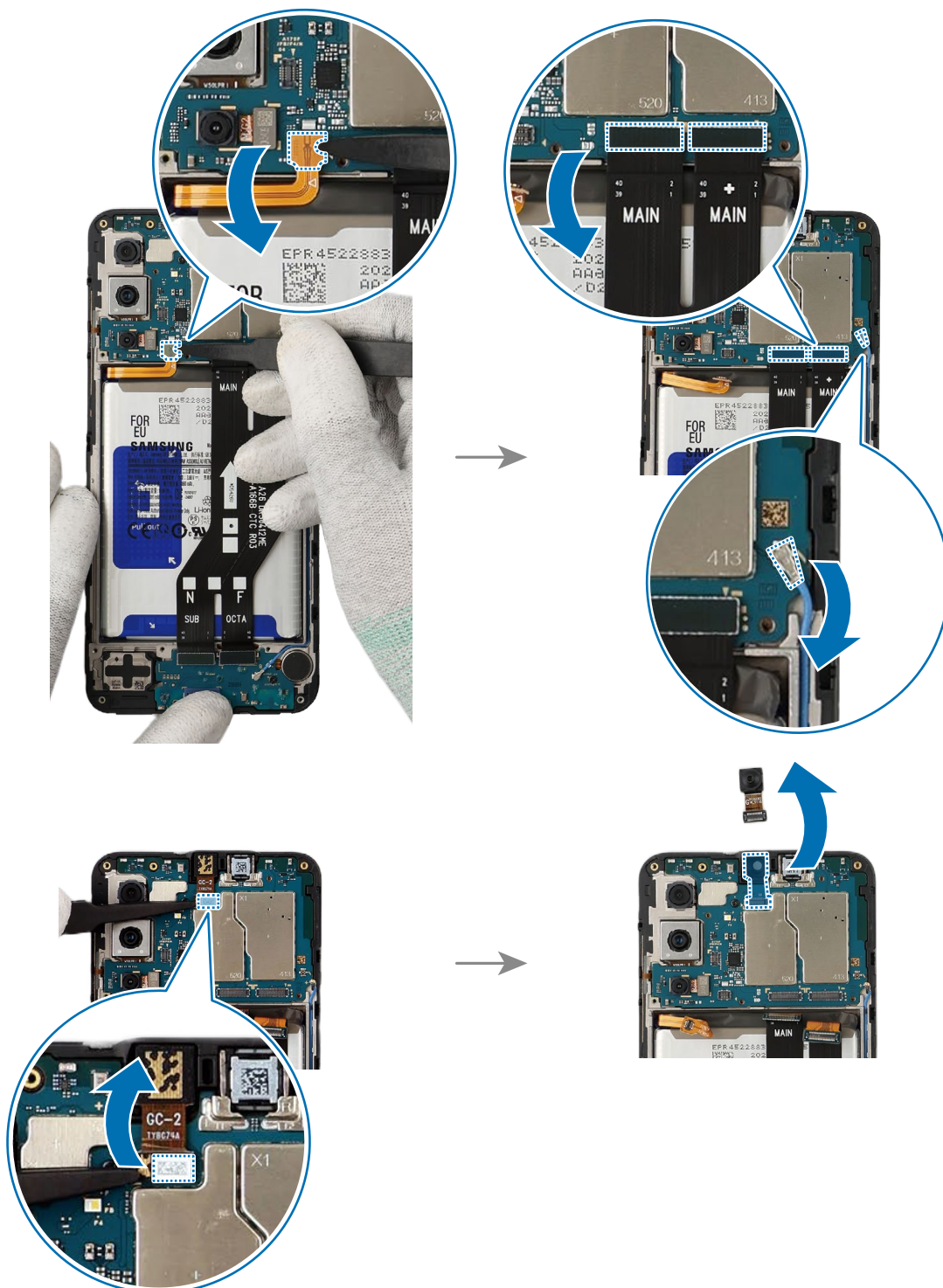
- 2 Using the tweezers, disconnect the battery connector first from the main board. Disconnect the 2 connectors and 1 coaxial cable connector from the main board using the tweezers. Separate the front camera connector from the main board and remove the front camera carefully from device. Leave the camera 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 damage the main board and the near components.
- Be careful not to touch the camera lens while handling it.
- Be careful not to damage the camera and the near components.



3 Check the 1 screw on the camera frame and the main board, and remove them using a cross-head screwdriver.



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



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



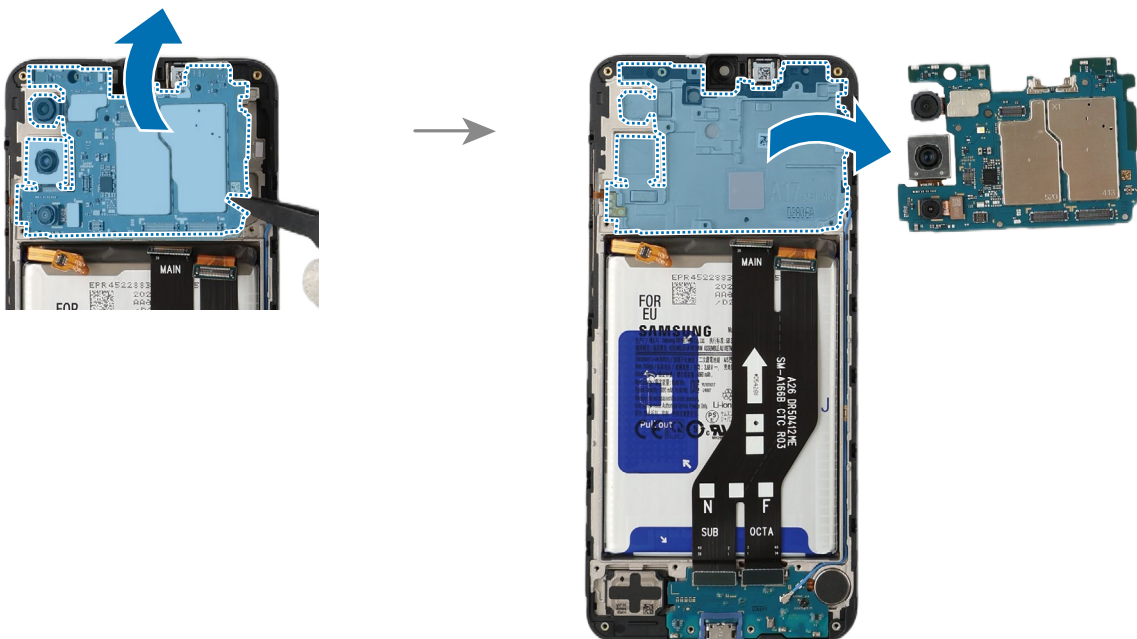
4 Using the tweezers, lift up on the separator groove of the main board, and remove it carefully.



Be careful not to damage the battery.



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



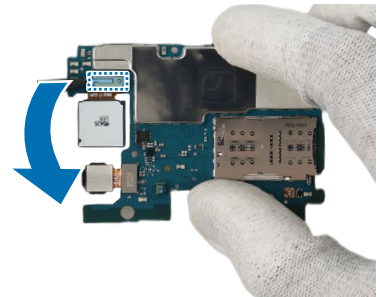
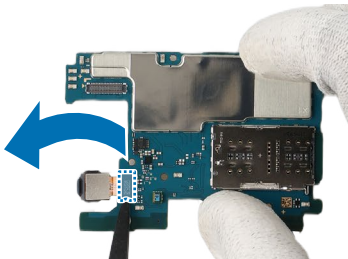
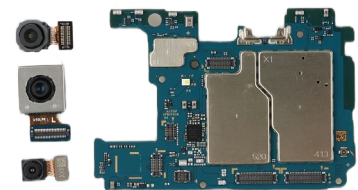
5 Disconnect the rear camera connector from the main board using the tweezers, and remove the rear camera carefully from the main board. Leave the camera lens facing up.



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



Separate and replace only the problematic camera.

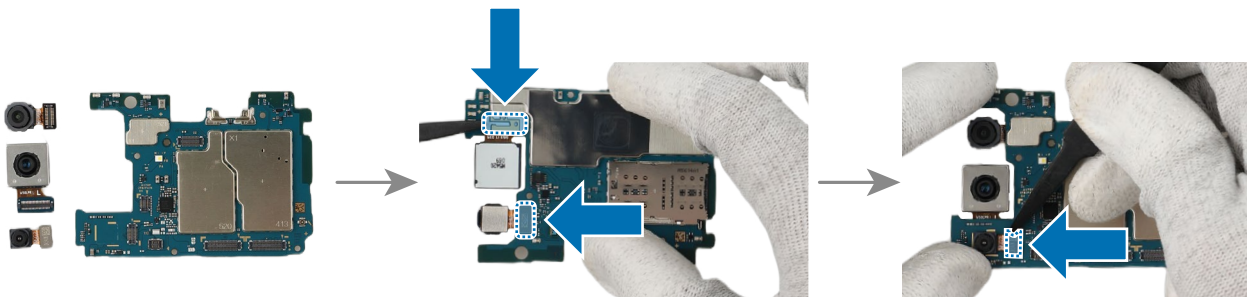


Reassembly

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

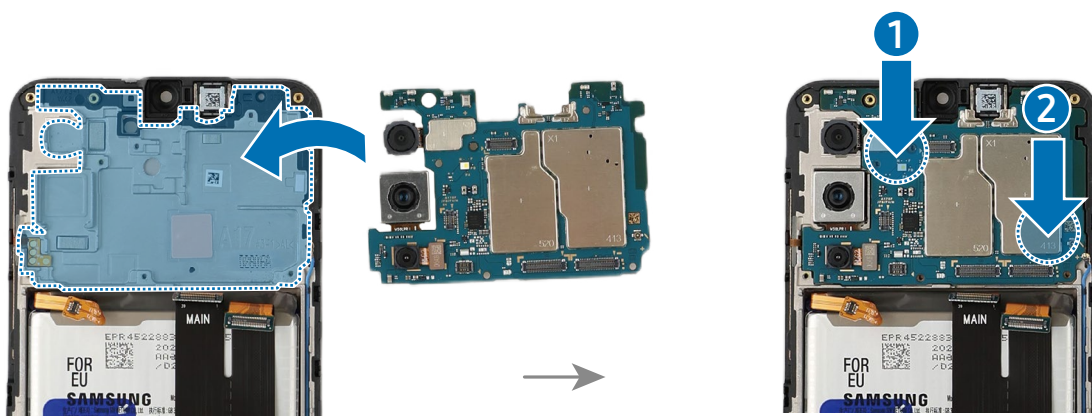
1 Using the tweezers, connect the rear camera connectors to the main board. Leave the camera lens facing up.

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



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

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



- 3 Check the screw 1530 (1 ea) at the different point on the main board and fasten the 1 screw using a cross-head screwdriver.

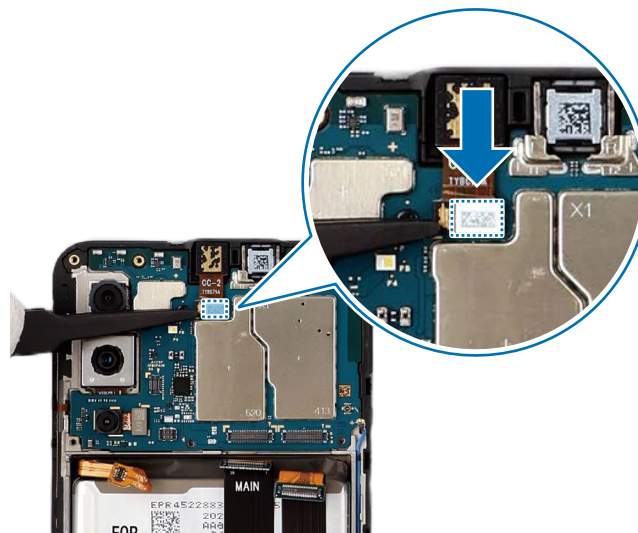
⚠ Be careful not to damage the main board and the near components.



- 4 Using the tweezers, place the front camera in the camera hole so that the lens faces forward, and gently insert the front camera. Connect the camera connector carefully on the main board.

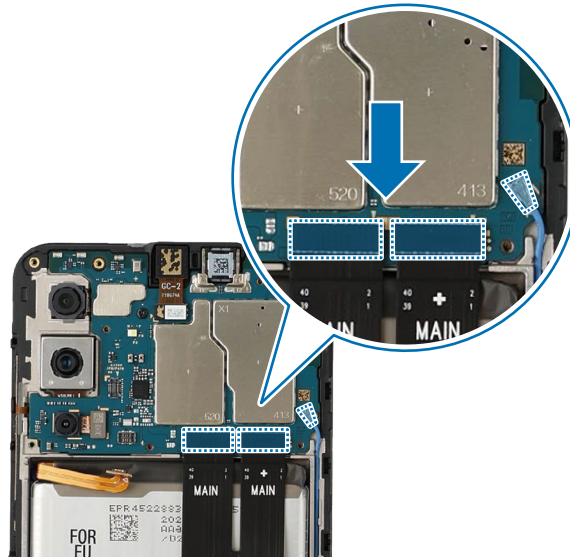
⚠

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



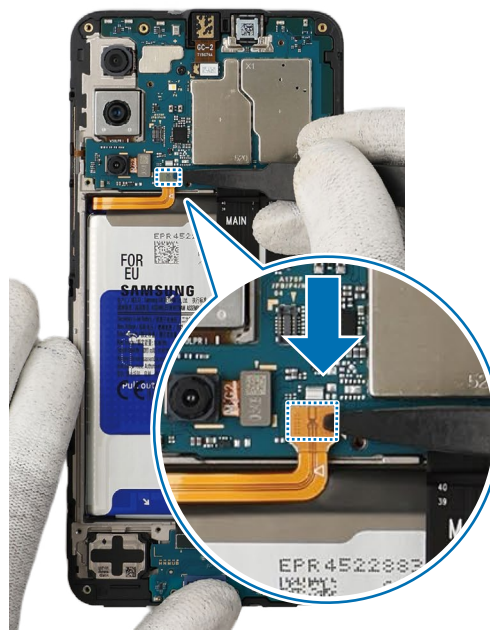
5 Using the tweezers, connect the 2 connectors and 1 coaxial cable connector to the main board.

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



6 Connect the battery connector to the main board.

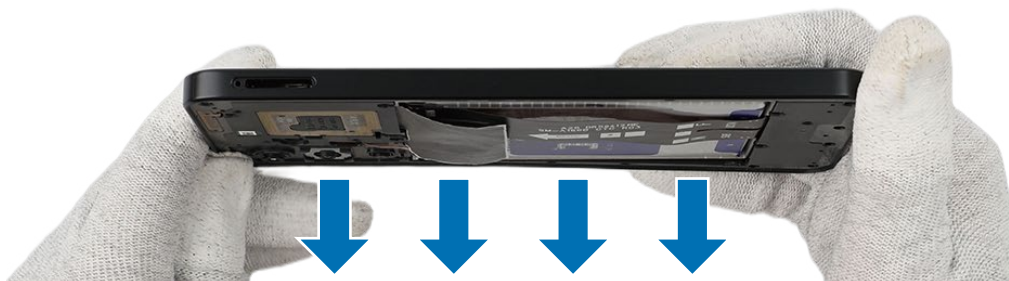
- ⚠ Be careful not to damage the battery.
- ⚠ Be careful not to damage the battery connector and near components.



- 7 Check for the reassembly steps of the [Front Camera](#) and completely reassemble up to the bracket and the fingerprint recognition sensor connector.



- 8 Check carefully 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 up to the bracket.



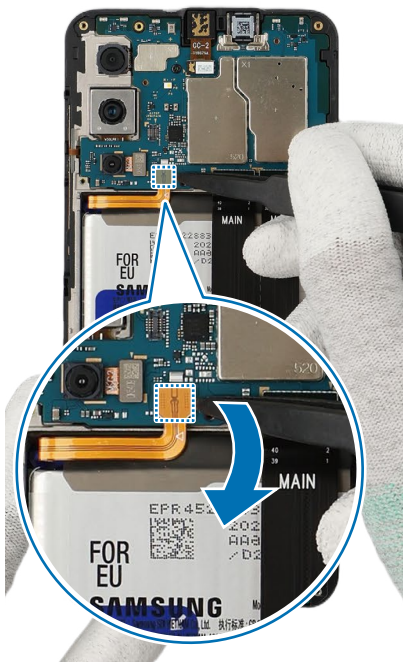
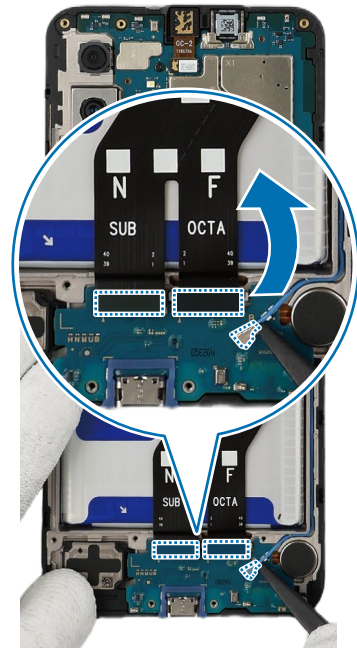
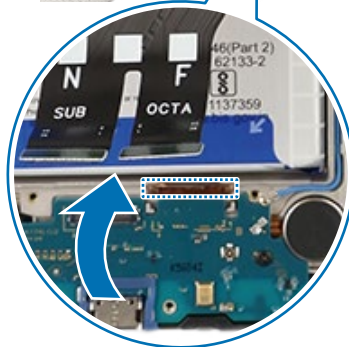
- 2 Using the tweezers, disconnect the battery connector first from the main board. Disconnect the 2 connectors and 1 coaxial cable connector from the charging port using the tweezers. Using the tweezers, separate the screen module connector carefully from the charging port module and lift it up.



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

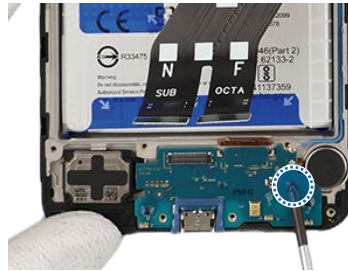


- Be careful not to damage the charging port and the near components.



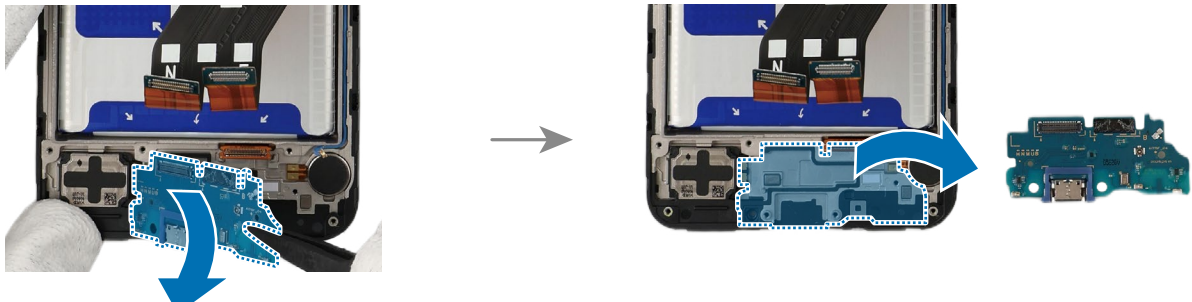
3 Check the 1 screw on the charging port and remove them using a cross-head screwdriver.

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



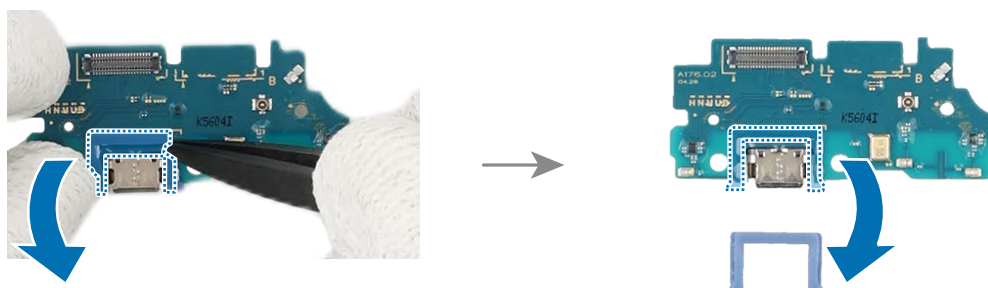
4 Using the tweezers, lift up on the separator groove of the charging port module, and remove the charging port module carefully.

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



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

- ⚠ • Be careful not to damage the charging port and the near components
- The charging port rubber should be used again when reassembling, so be careful not to lose it.

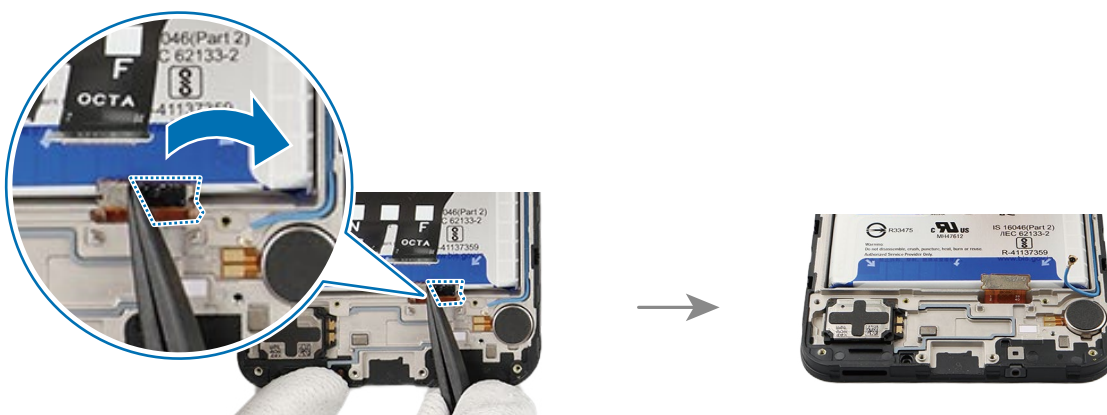


Reassembly

- ⚠ • 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.

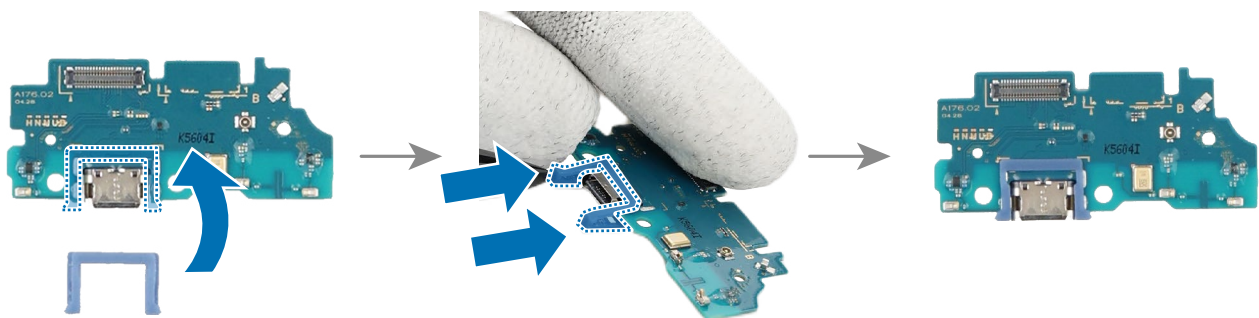
1 Using the tweezers, remove the adhesive tape from the screen module connector carefully.

- ⚠ Be careful not to damage the screen module connector and the near components.



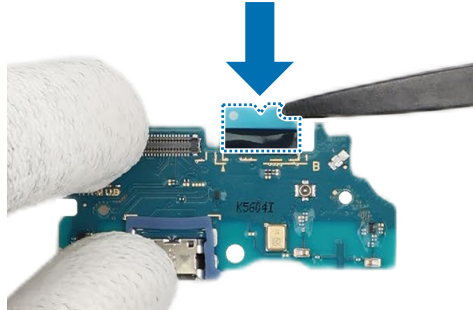
2 Using tweezers, assemble the charging port rubber carefully from the new charging port module.

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



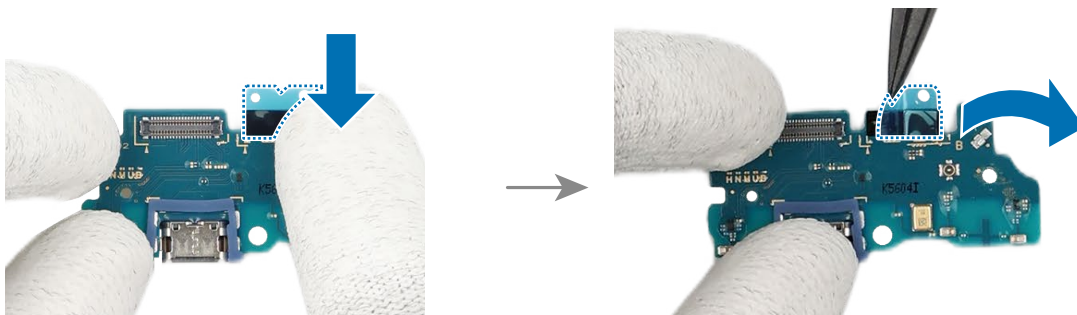
- 3 Using the tweezers, remove the clear film from the new screen module connector adhesive tape and apply it to the charging port module.

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



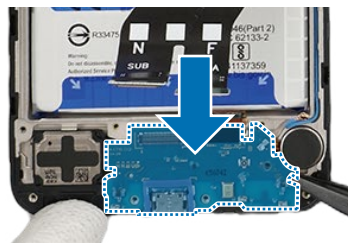
- 4 Press the adhesive tape with your fingers softly so that it can be attached well, and remove the release film from the tape.

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



- 5 Using the tweezers, 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 and the near components.



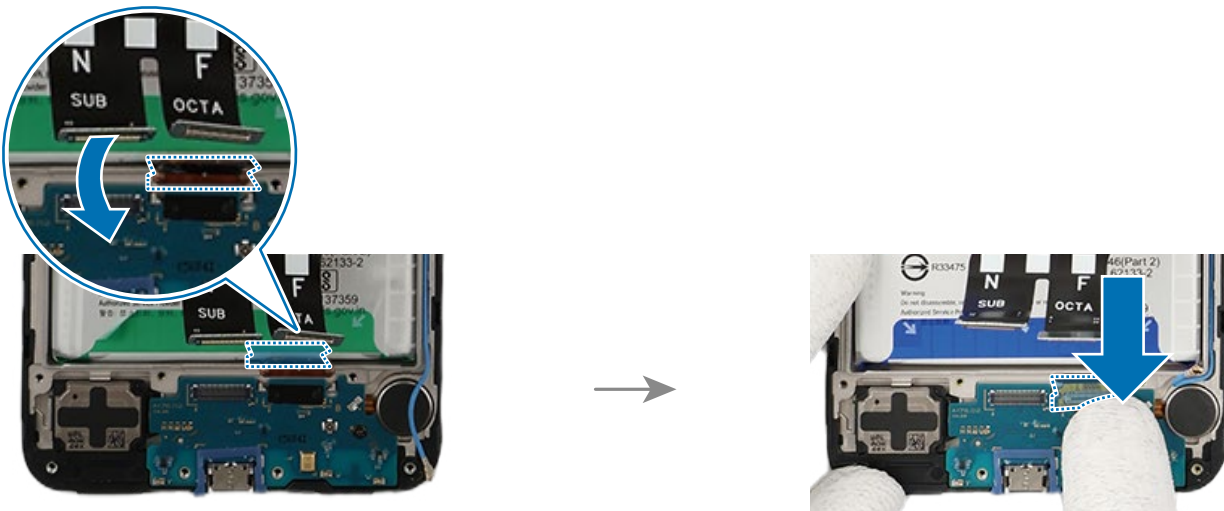
- 6 Check the screw 1530 (1 ea) at the different point on the charging port and fasten the 1 screw using a cross-head screwdriver.

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



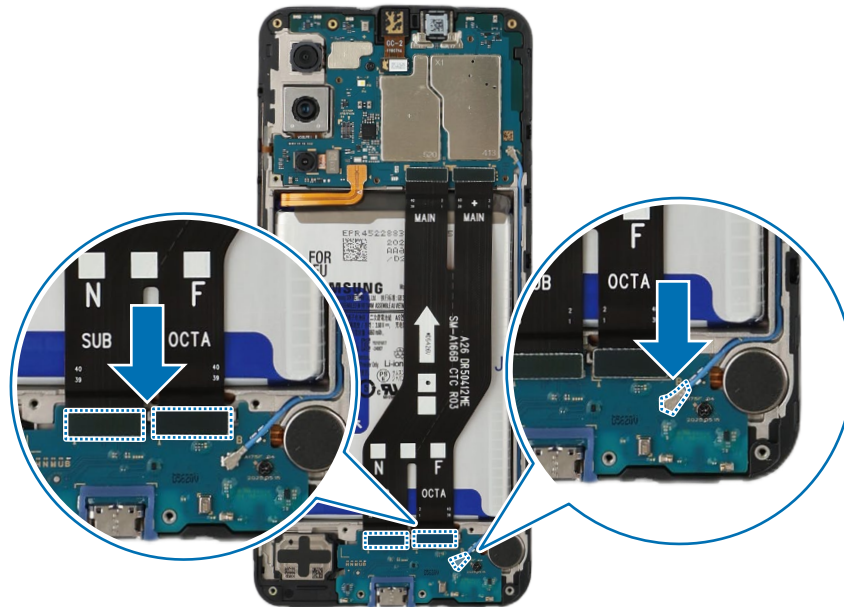
- 7 Using your fingers, press down the screen module connector on the adhesive tape of charging port softly and attach it.

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



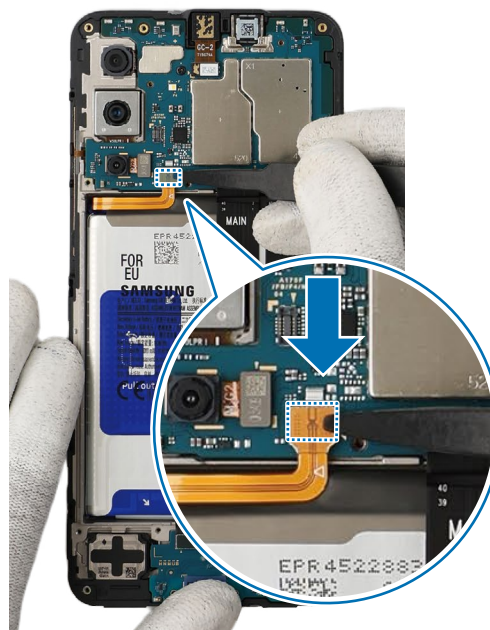
8 Using the tweezers, connect the 2 connectors and 1 coaxial cable connector to the charging port.

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



9 Connect the battery connector to the main board.

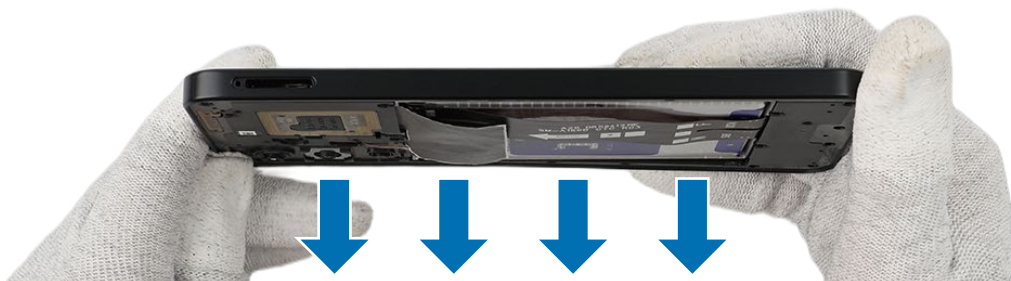
- ⚠ Be careful not to damage the battery.
- ⚠ Be careful not to damage the battery connector and near components.



- 10 Check for the reassembly steps of the [Front Camera](#) and completely reassemble up to the bracket and the fingerprint recognition sensor connector.



- 11 Check carefully 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 [Back Cover](#) and [SIM Card Tray](#) to complete assembly.

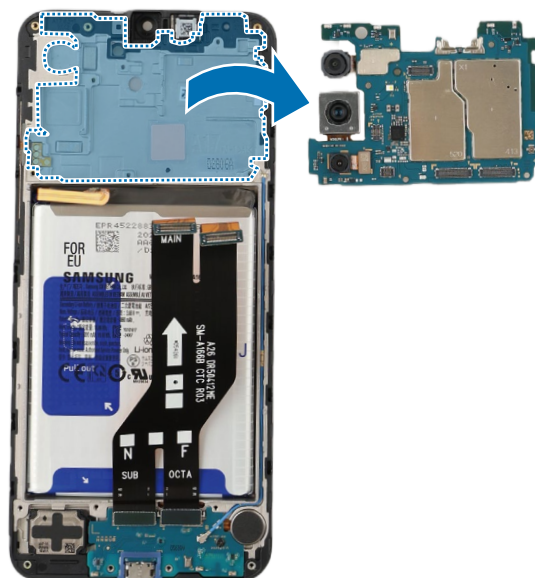
Top Receiver

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

Disassembly

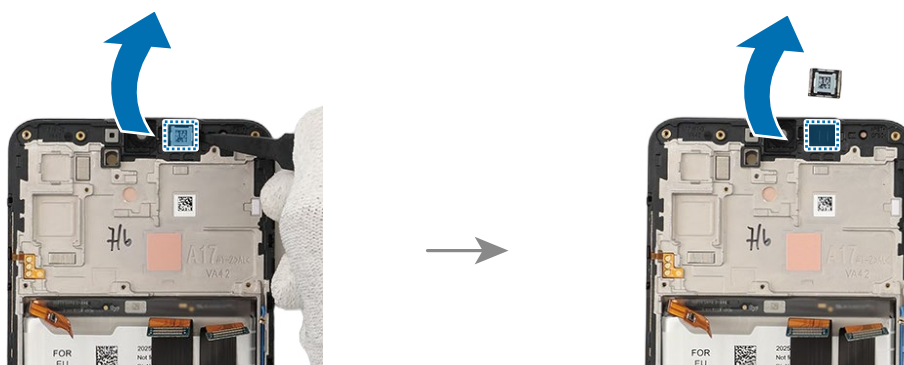
-  Remove the [SIM Card Tray](#) and [Back Cover](#) first before you begin.

- 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 top receiver on the screen module and remove it carefully.

-  Be careful not to damage the receiver and the near components.



Reassembly

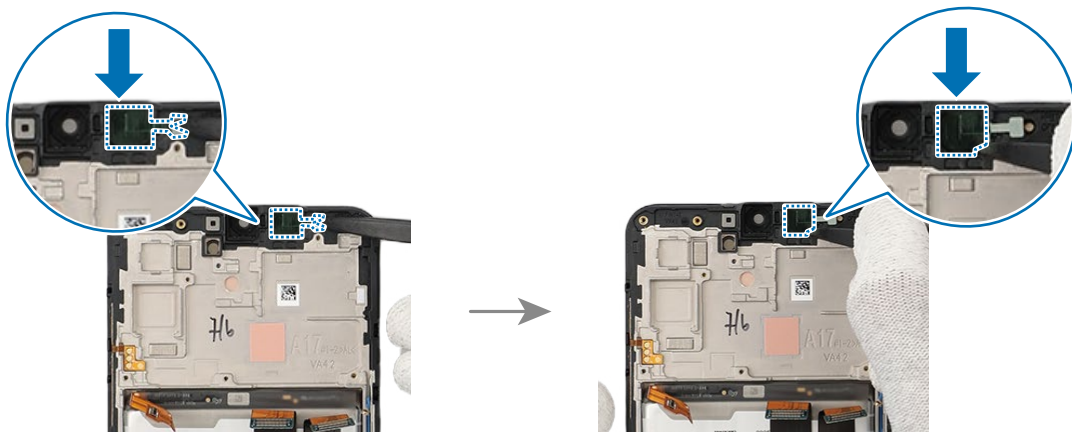
 Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

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

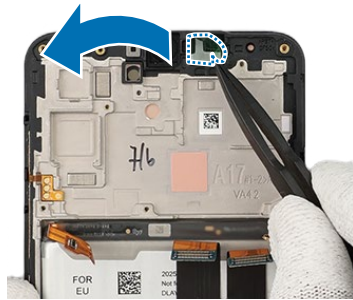
-  • Make sure to remove any residual tapes attached to the position of the separated receiver before reassembling the new receiver.
- Be careful not to damage the near components.



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



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



- 4 Assemble the receiver to the exact position of the screen module using the tweezers. Press the top receiver with your fingers softly so that the receiver can be assembled well.

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



- 5 Check for the reassembly steps of the [Rear Camera](#) and completely reassemble up to the bracket and the fingerprint recognition sensor connector.



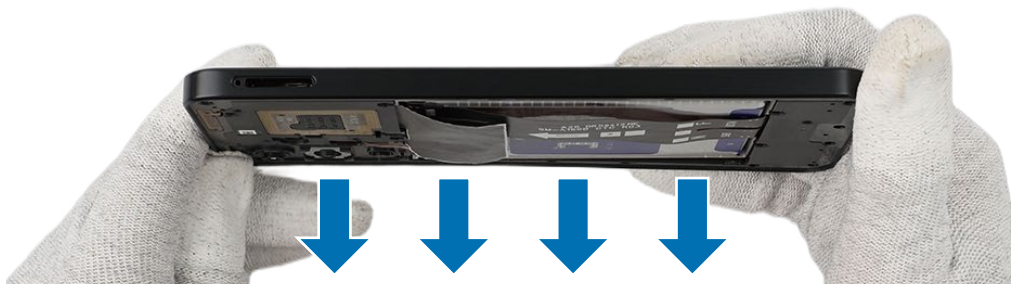
Be careful not to damage the battery.



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



- 6 Check carefully 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.



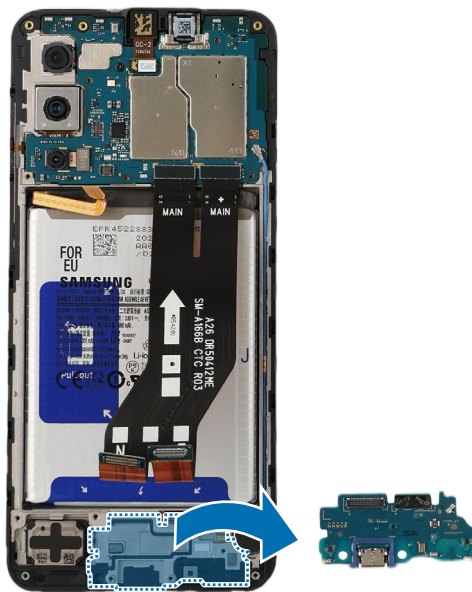
Reassemble the [Back Cover](#) and [SIM Card Tray](#) to complete assembly.

Bottom Speaker

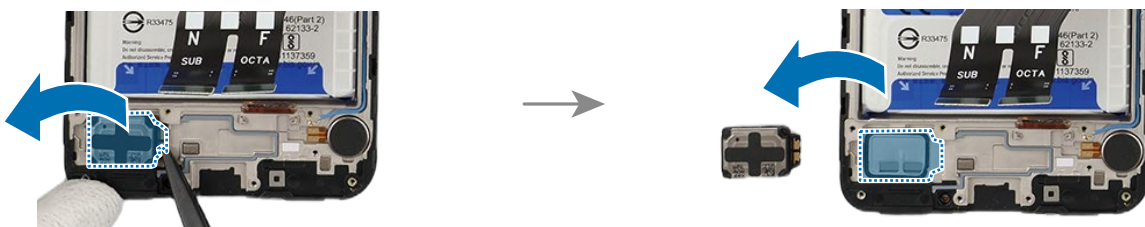
-  The bottom speaker is already built into the screen module. Disassemble the speaker only if the speaker itself requires repairs.

Disassembly

-  Remove the [SIM Card Tray](#) and [Back Cover](#) first before you begin.
- 1 Check for the disassembly steps of the [Charging Port and Microphone](#) and completely separate up to the charging port module.



- 2 Using the tweezers, lift up on the separator groove of the bottom speaker on the screen module and remove it carefully.
-  Be careful not to damage the speaker and 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, remove adhesive tape from where the bottom 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.



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

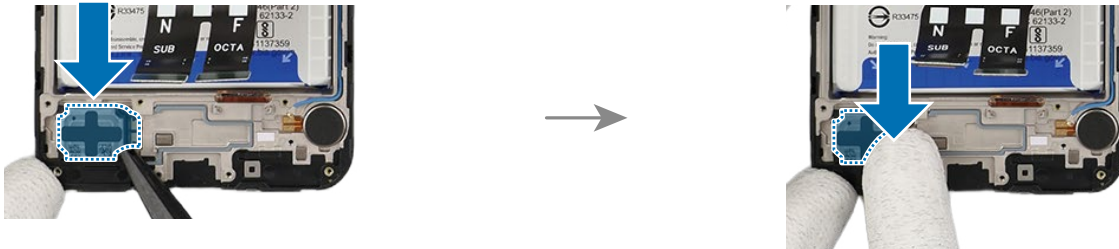


3 Using the tweezers, hold the protruding release film of the attached tape and carefully remove it.



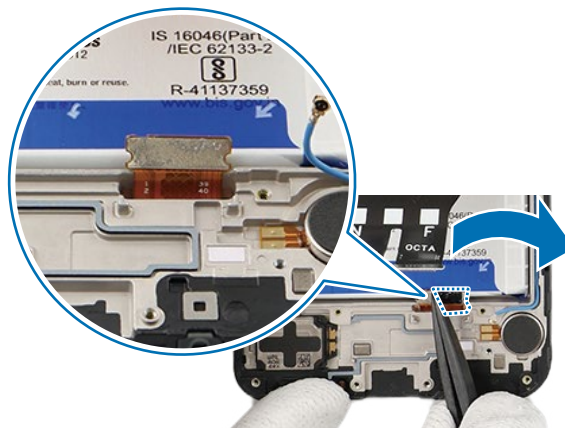
- 4 Assemble the speaker to the exact position of the screen module using the tweezers. Press the bottom speaker with your fingers softly so that the speaker can be assembled well.

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

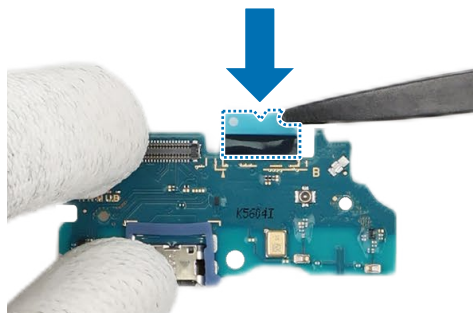


- 5 Using the tweezers, remove the adhesive tape from the screen module connector carefully.

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

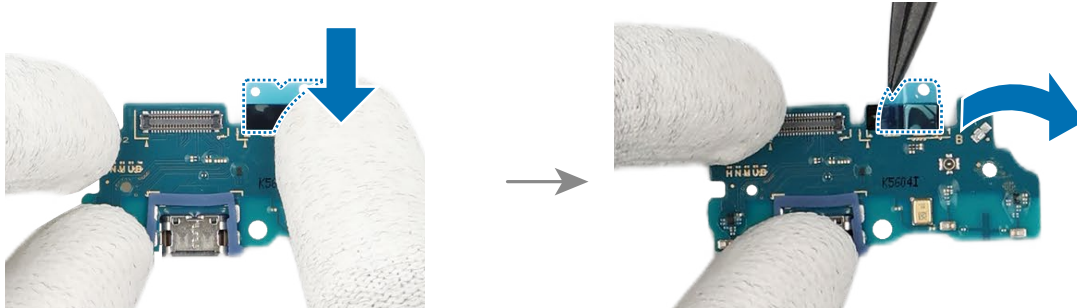


- 6 Using the tweezers, remove the clear film from the new screen module connector adhesive tape and apply it to the charging port module.



- 7 Press the adhesive tape with your fingers softly so that it can be attached well, and remove the release film from the tape.

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



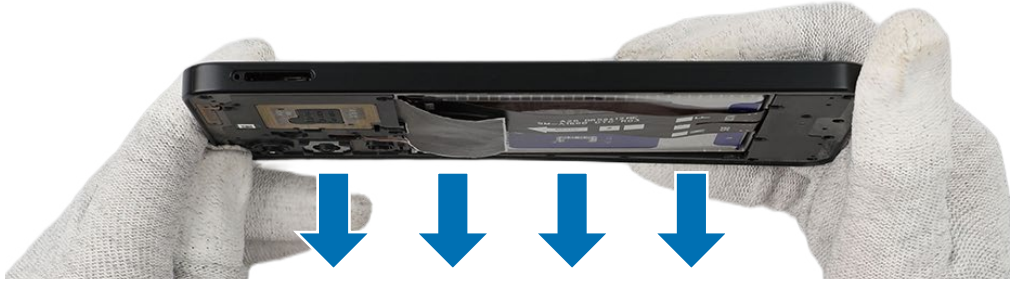
- 8 Check for the reassembly steps of the [Charging Port and Microphone](#) and completely reassemble up to the bracket and the fingerprint recognition sensor connector.

⚠ Be careful not to damage the battery.

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



- 9 Check carefully 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.

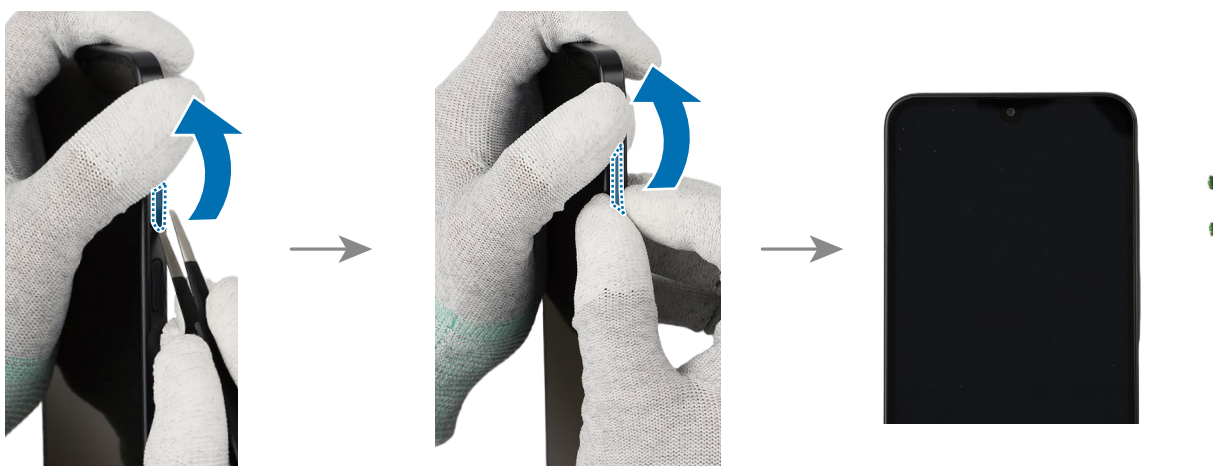
Volume Button

Disassembly

1 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 out it 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.

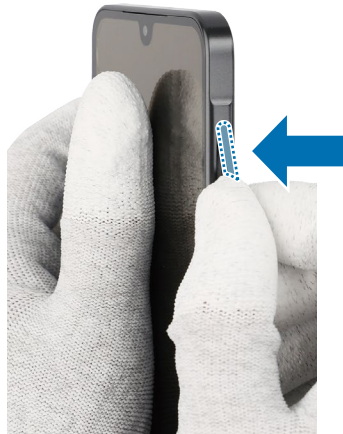


Reassembly

 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

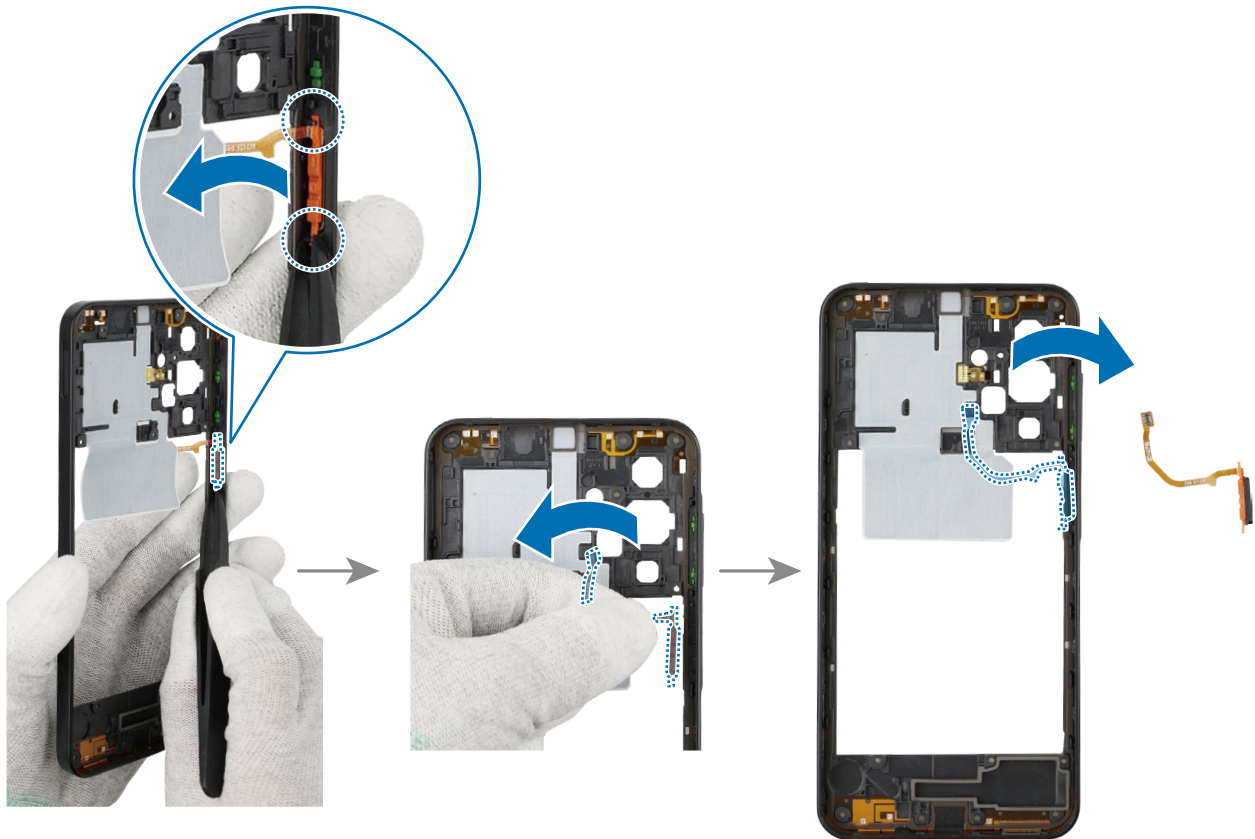
Remove the [SIM Card Tray](#) and [Back Cover](#) first before you begin.

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



- 2 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.

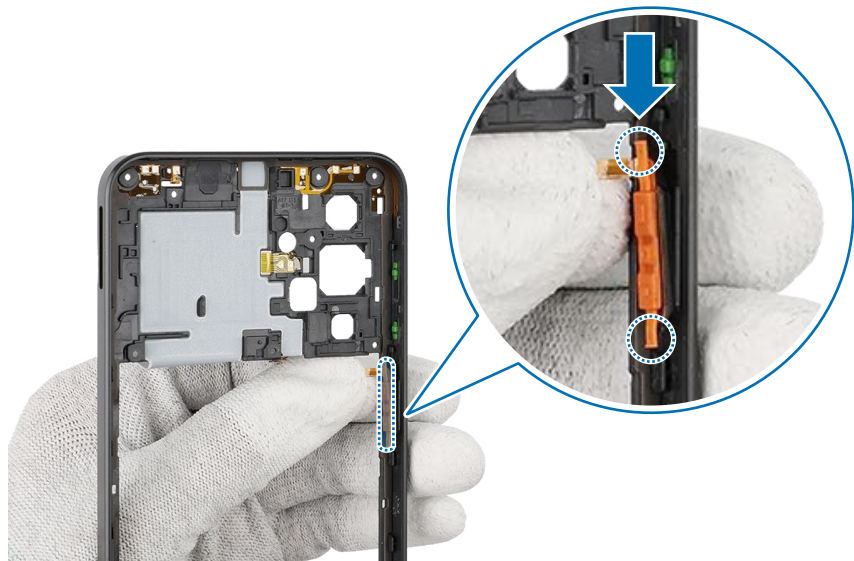


Reassembly

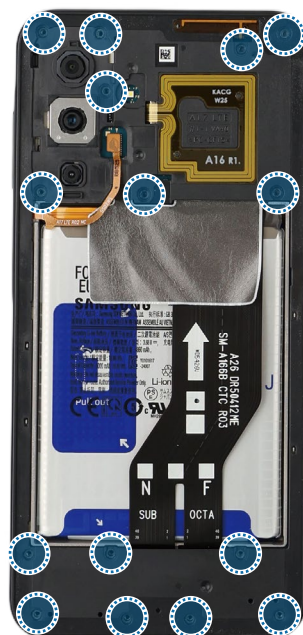
- 1 Remove the release film from new Side button module. Using the tweezers, grab the Side button module and insert it to the rear bracket carefully. Using the tweezers, grab the rubber for side button module and assemble each end of it exactly to the rear bracket.



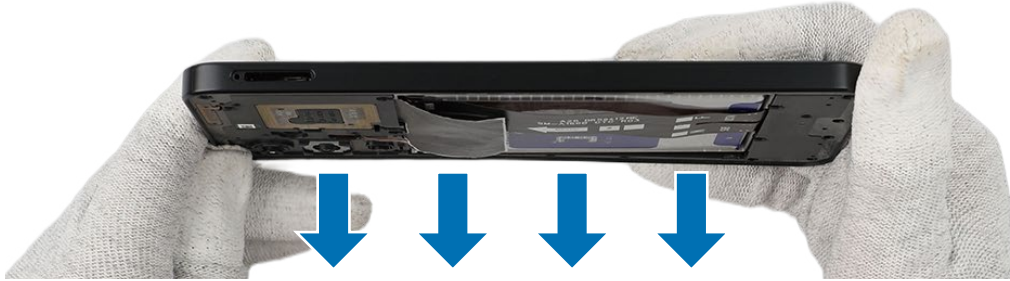
- Be careful not to damage or scratch the bracket.
- Be careful not to damage the buttons.



- 2 Check for the reassembly steps of the [Front Camera](#) and completely reassemble up to the bracket and the fingerprint recognition sensor connector.



- 3 Check carefully 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 [SIM Card Tray](#) and [Back Cover](#) to complete assembly.

Screen Module

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

Disassembly

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

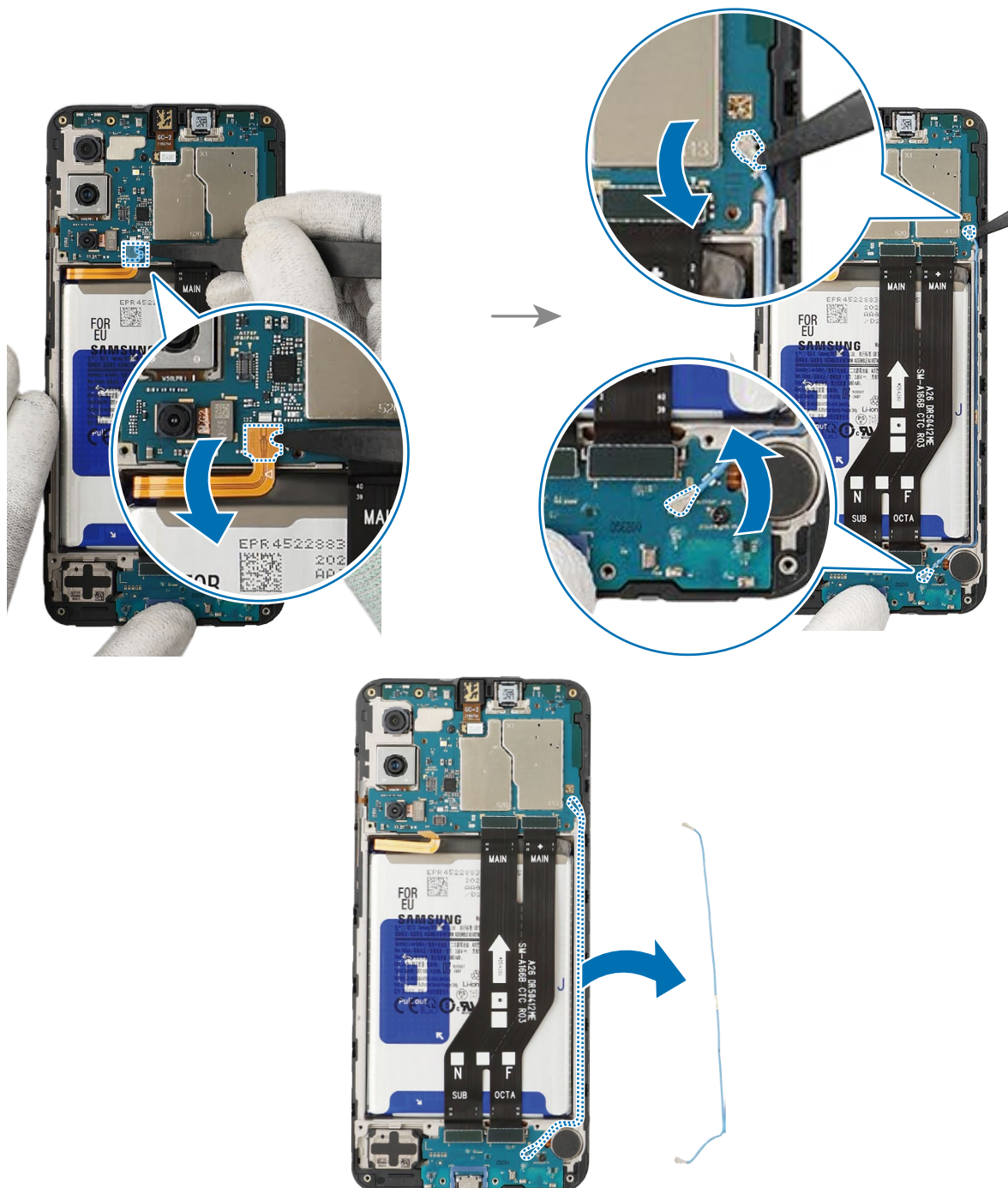
- 1 Check for the disassembly steps of the [Front Camera](#) and completely separate up to the bracket.



- 2 Using the tweezers, disconnect the battery connector first from the main board. Disconnect the 2 connectors of the blue coaxial cable and remove it completely.

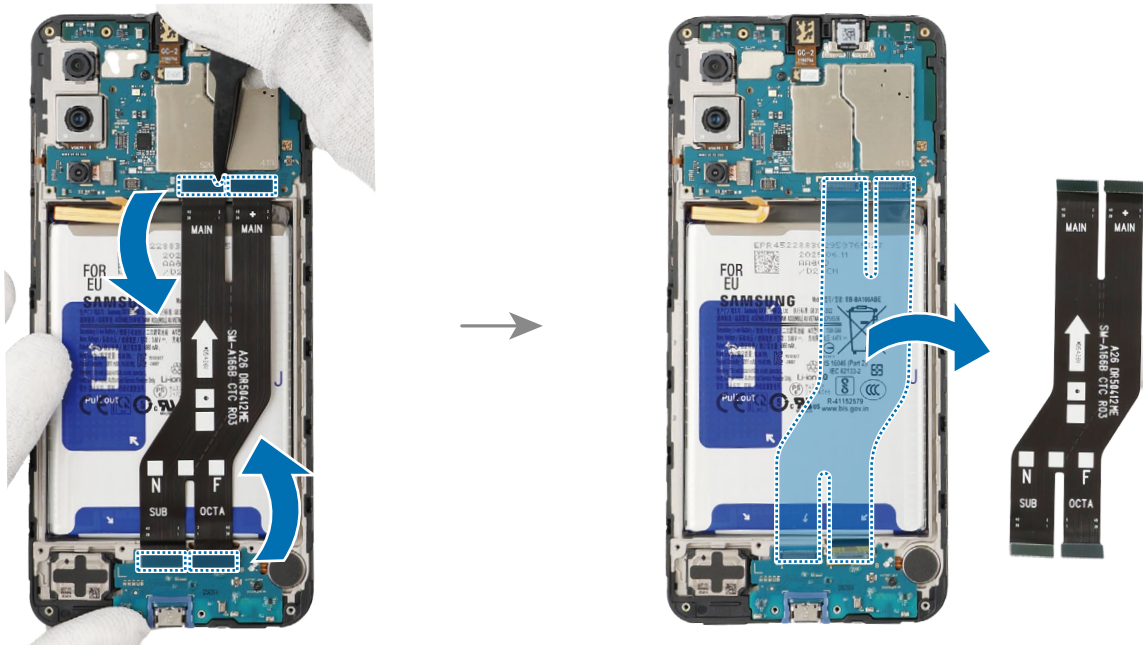


- When removing the connectors, be careful not to damage the cable.
- Be careful not to damage the near components.



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

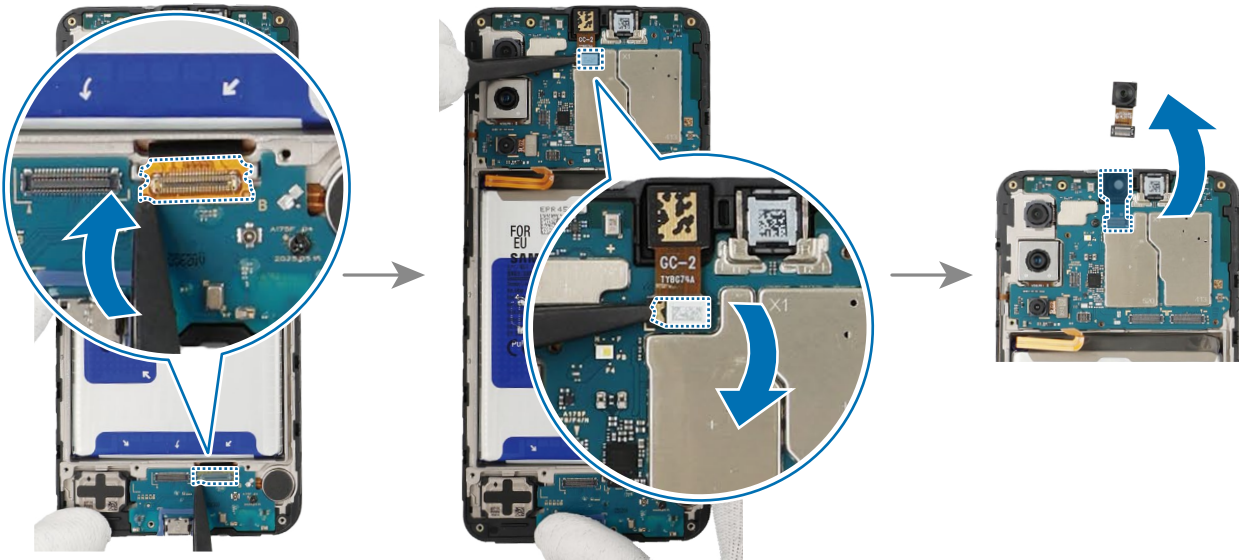
- ❗ • When removing the connectors, be careful not to damage the cable.
- Be careful not to damage the near components.



- 4 Using the tweezers, separate the screen module connector carefully from the charging port module and lift it up. Separate the front camera connector from the main board and remove the front camera carefully from device. Leave the camera lens facing up.



- Be careful not to touch the camera lens while handling it.
- Be careful not to damage the camera and the near components.
- Be careful not to damage the charging port and the near components



5 Check the 2 screws on the main board and the charging port, and remove them using a cross-head screwdriver.

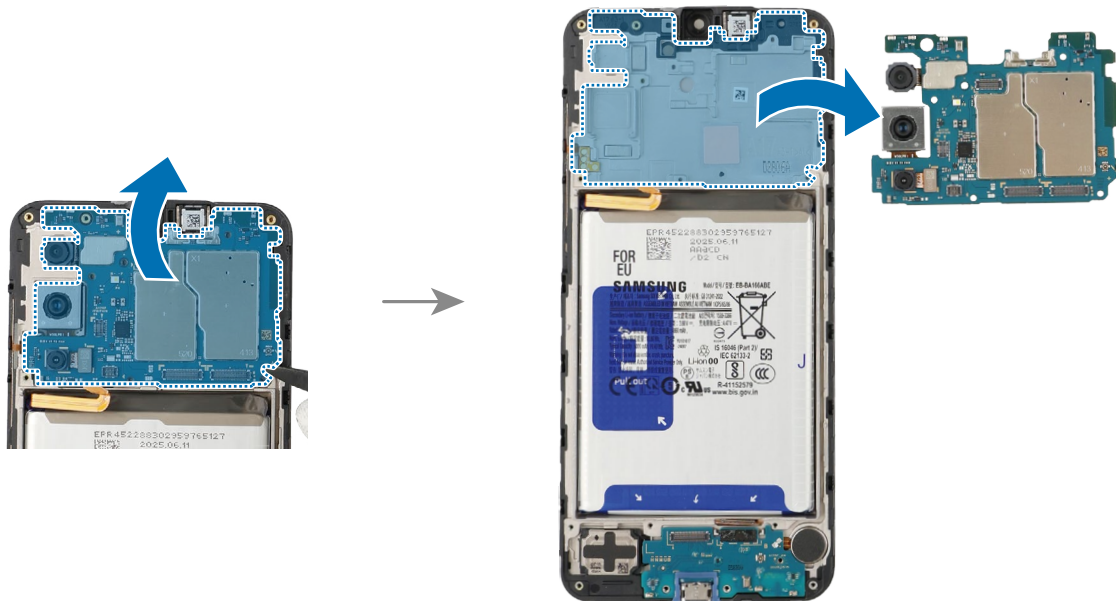
- ⚠ • Be careful not to damage the main board and the near components.
- Be careful not to damage the charging port and the near components
- 📝 • Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



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



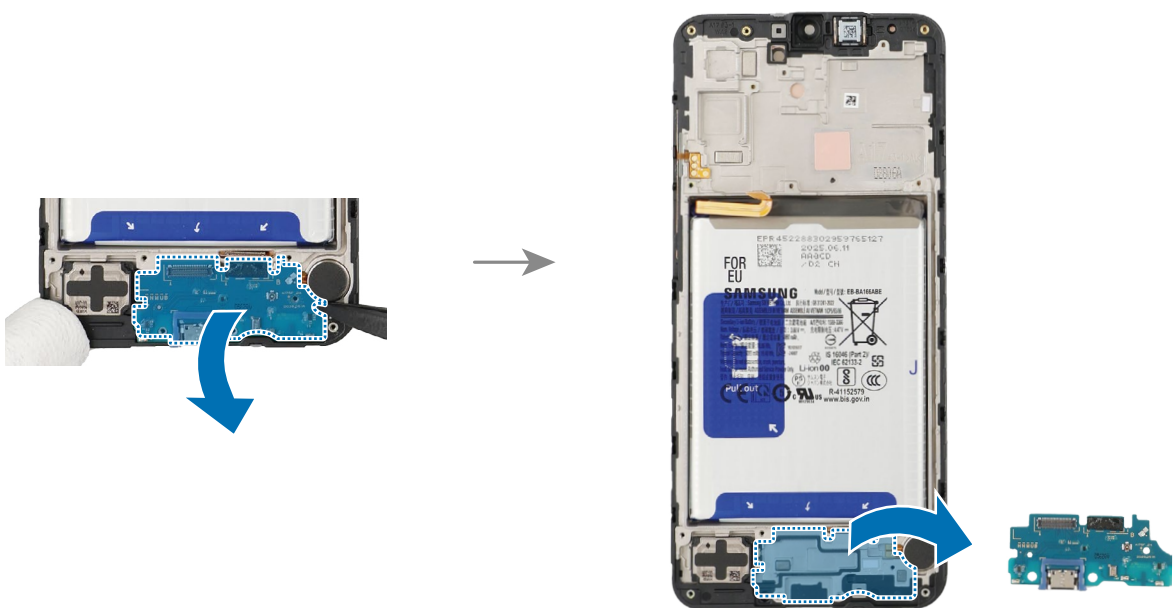
- Be careful not to damage the near components, the battery connector, and the main board.
- The FPCB cables have to be positioned outside so as not to interfere when disassembling the main board.



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

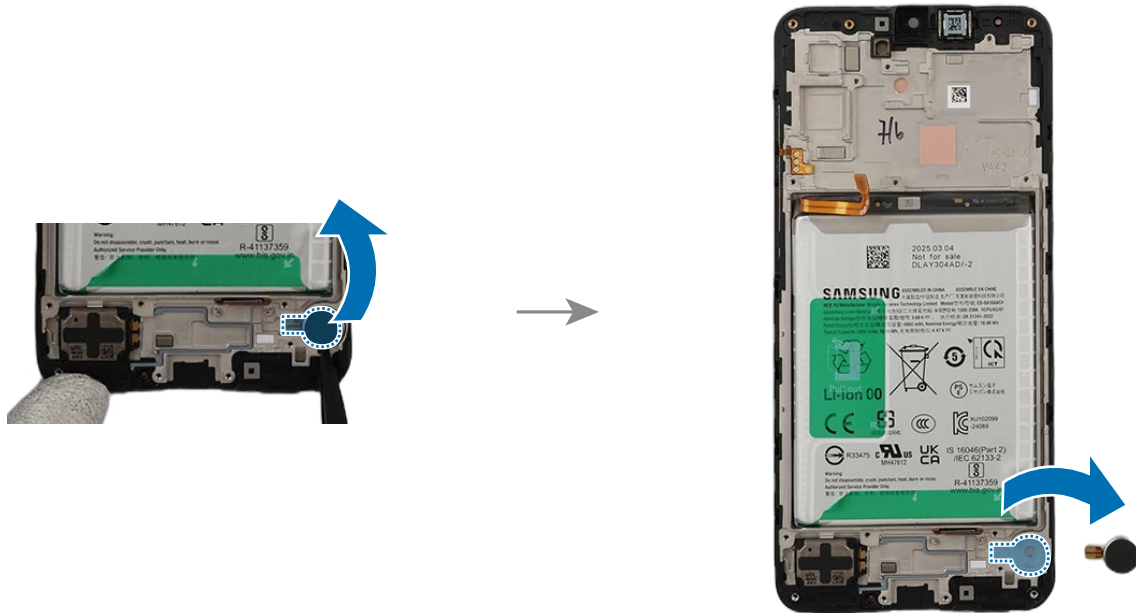


- Be careful not to damage the charging port and the near components



8 Using the tweezers, lift up on the separator groove of vibrator motor and remove it carefully from the screen module.

⚠ Be careful not to damage the vibrator motor and the near components.

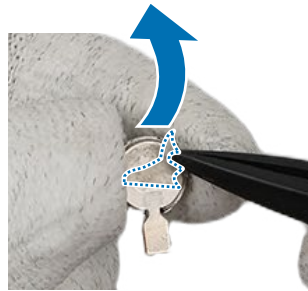


Reassembly

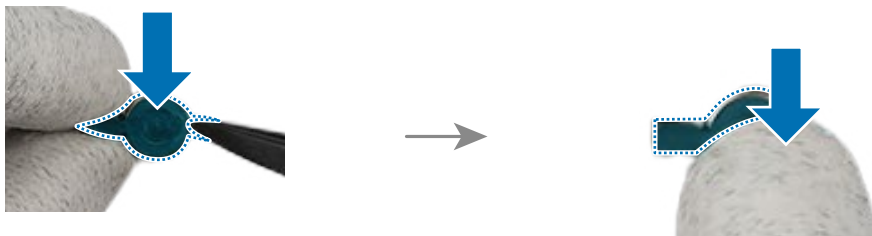
-  Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

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

-  Be careful not to damage the vibrator motor.

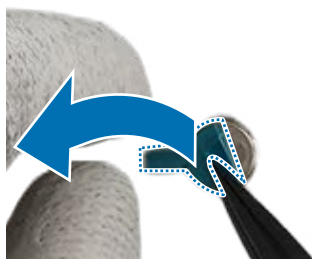


2 Remove the clear film from new vibrator motor adhesive tape and apply it to the bottom of the vibrator motor. Gently press down the tape with your fingers so that the tape can be attached well.



3 Remove the release film from the adhesive tape.

-  Be careful not to damage the vibrator motor.



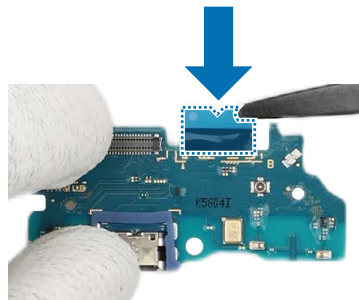
- 4 Using the tweezers, assemble the vibrator motor to the exact position of the screen module and press it with fingers softly.

⚠ Be careful not to damage the vibrator motor and near components.



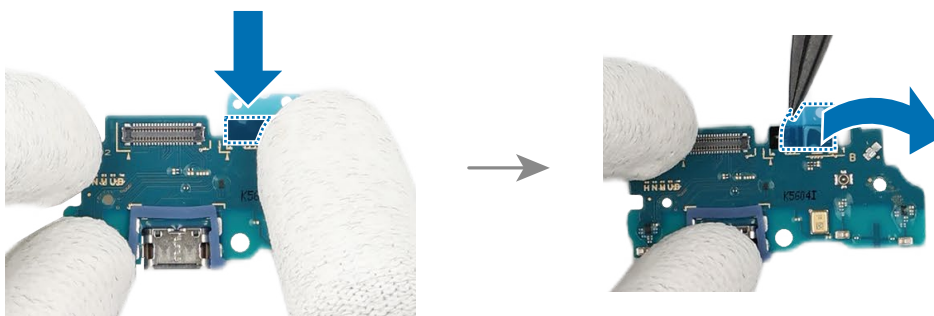
- 5 Using the tweezers, remove the clear film from the new screen module connector adhesive tape and apply it to the charging port module.

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



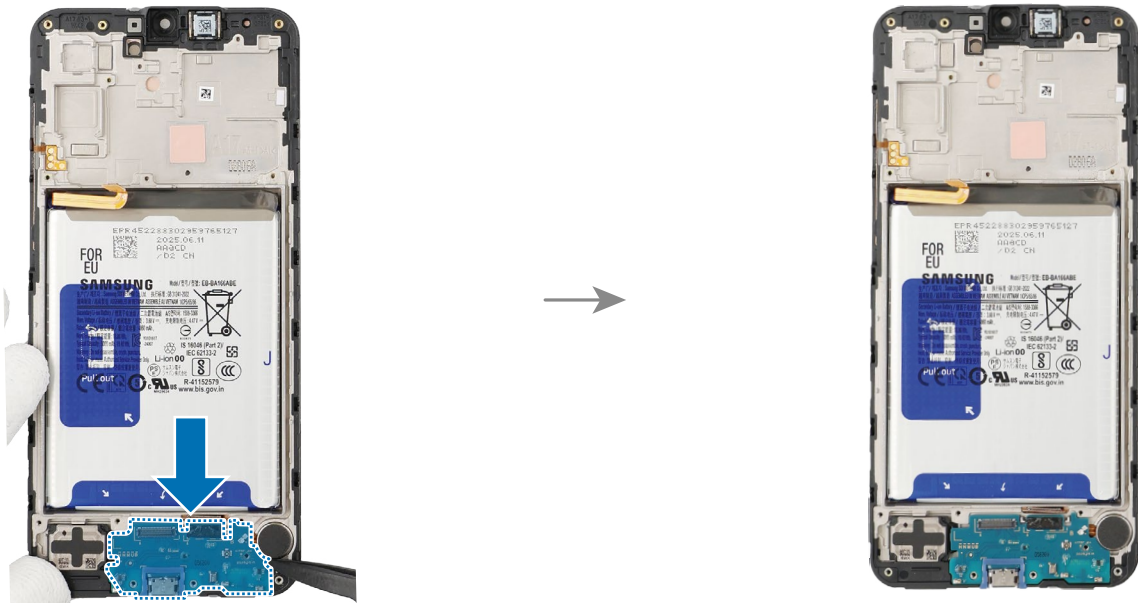
- 6 Press the adhesive tape with your fingers softly so that it can be attached well, and remove the release film from the tape.

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



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

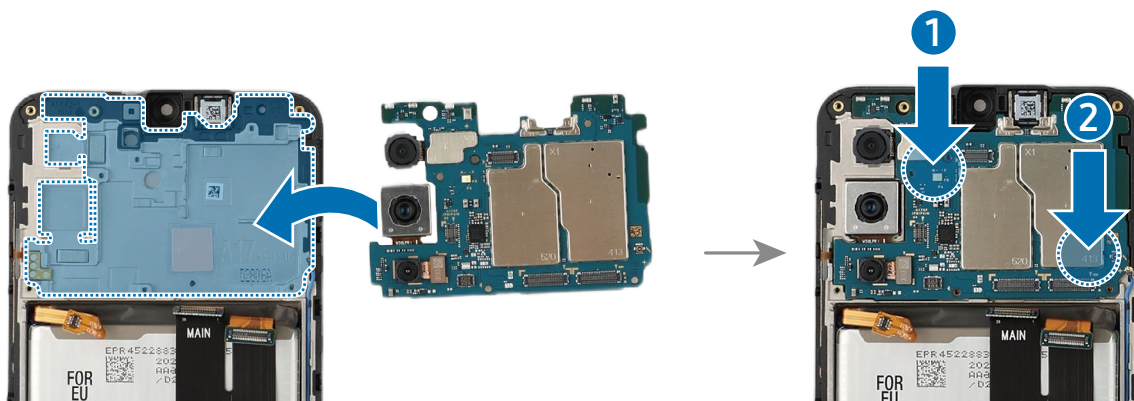
⚠ Be careful not to damage the charging port and the near components.



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

⚠ Be careful not to damage the battery.

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



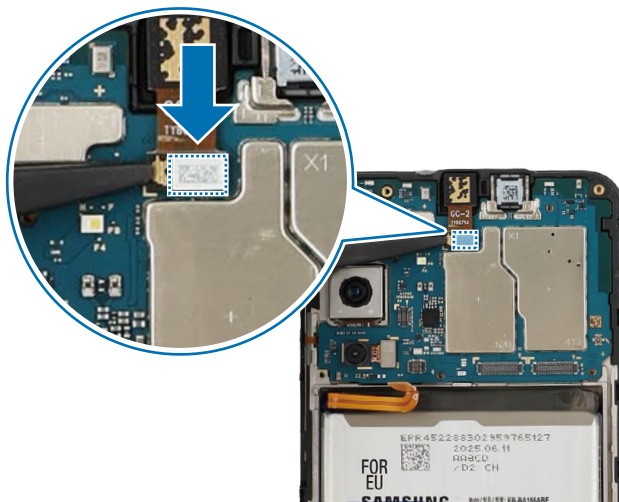
9 Check the screw 1530 (2 ea) at the 2 different points on the main board and the charging port, and fasten the 2 screws using a cross-head screwdriver.

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



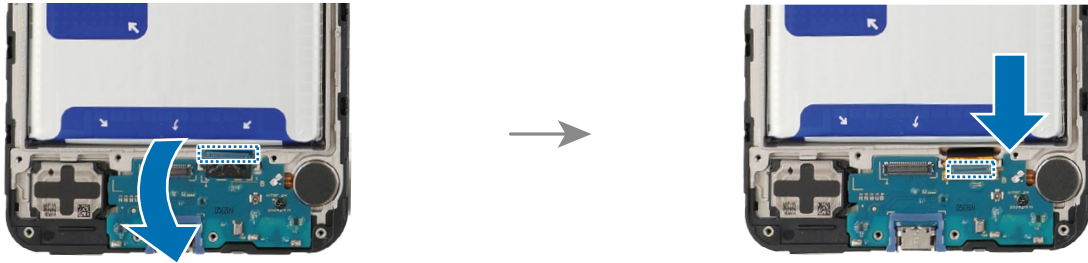
10 Using the tweezers, place the front camera in the camera hole so that the lens faces forward, and gently insert the front camera. Connect the camera connector carefully on the main board.

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



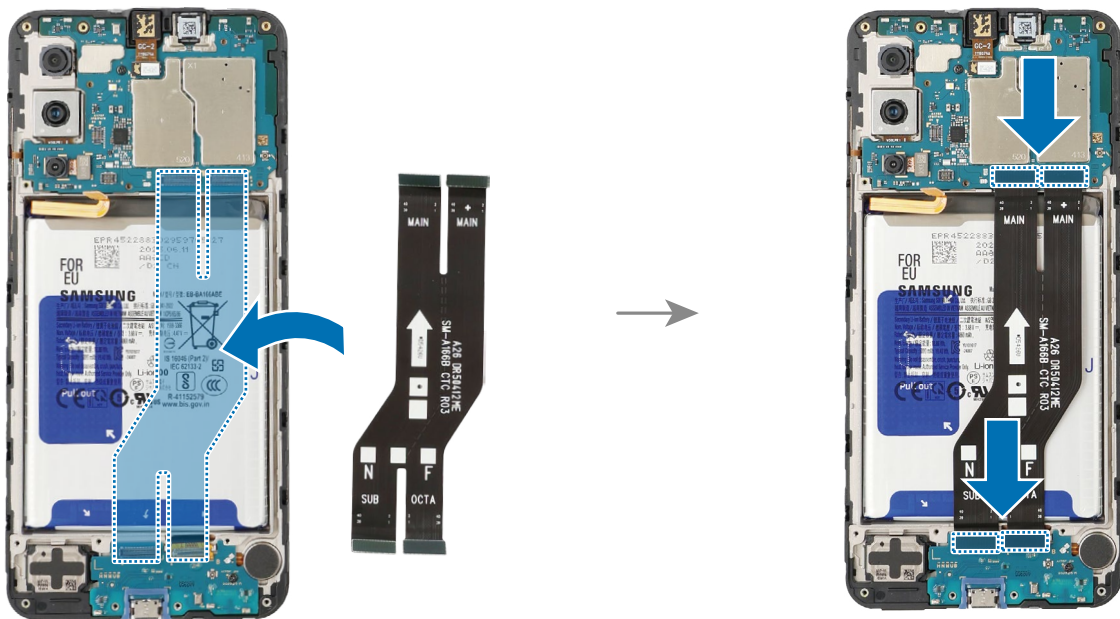
- 11 Using your fingers, press down the screen module connector on the adhesive tape of charging port softly and attach it.

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



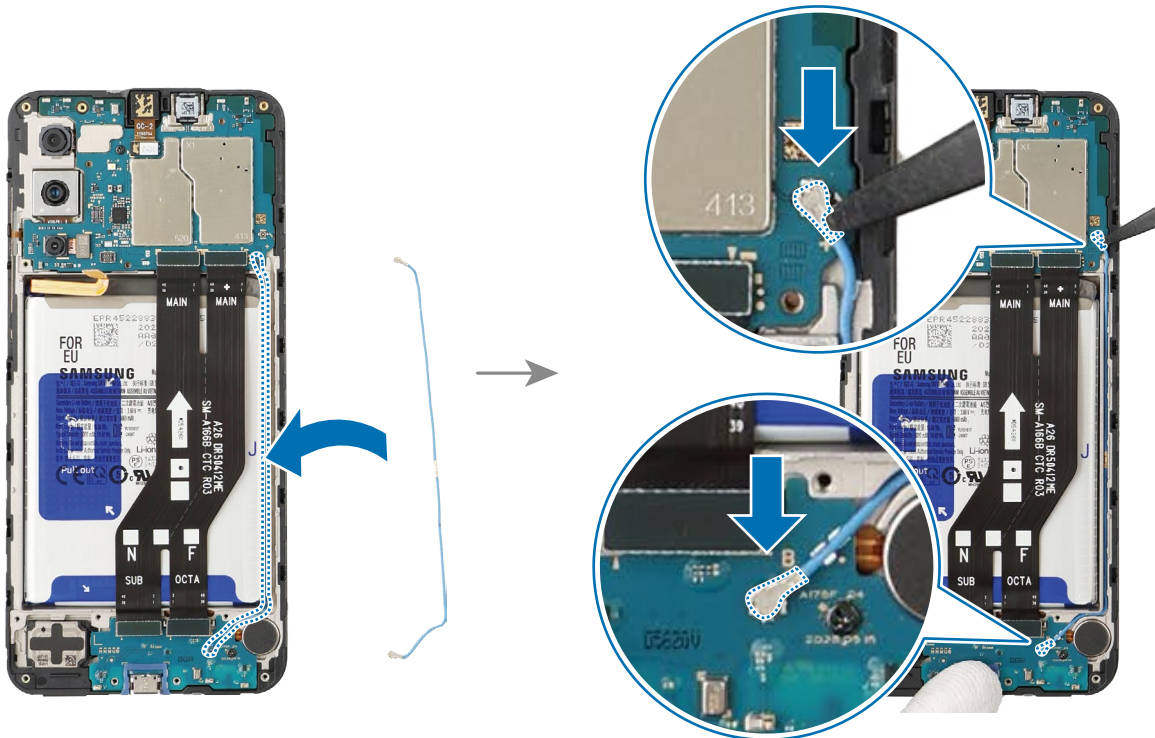
- 12 Place the flex cable to the device frame and connect the 4 connectors carefully.

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



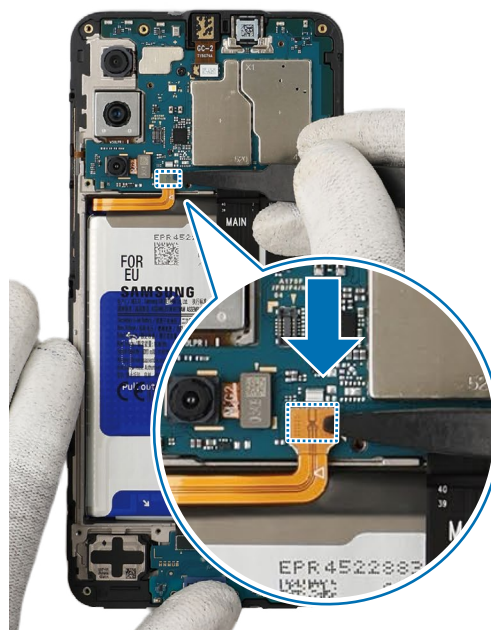
13 Place the blue coaxial cable to the device frame and connect the 2 connectors carefully.

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



14 Connect the battery connector to the main board.

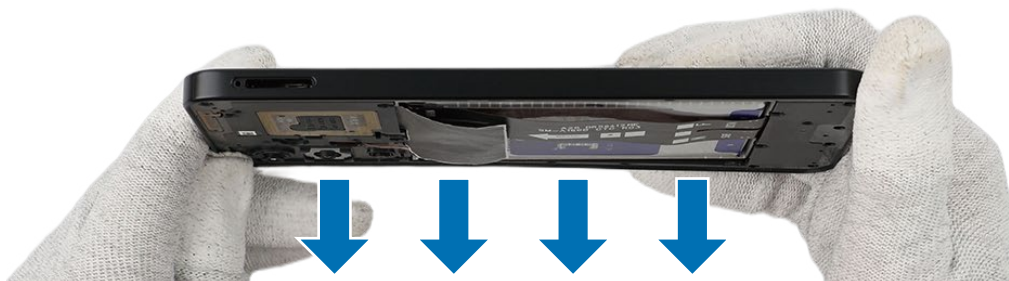
- ⚠ Be careful not to damage the battery.
- ⚠ Be careful not to damage the battery connector and near components.



- 15 Check for the reassembly steps of the [Front Camera](#) and completely reassemble up to the bracket and the fingerprint recognition sensor connector.



- 16 Check carefully 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 can only be replaced at an authorised repair shop. If the screen is faulty, please contact Samsung for further assistance.

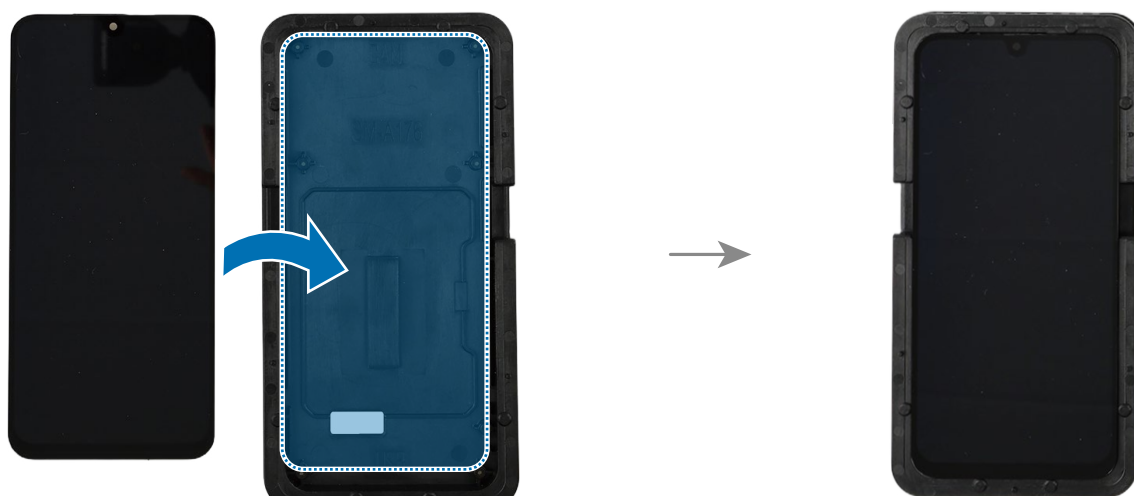
Disassembly

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

- 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 screen disassembly tool.



- 3 Place the screen module on a screen disassembly tool and secure it with 7 screws removed from the rear bracket using a cross-head screwdriver in the screw holes located on the back of the screen disassembly tool.

 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.

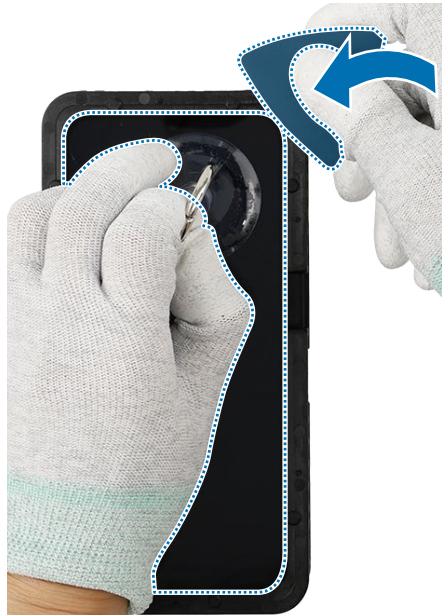


 Be careful that the suction cup does not adhere to the area where the tape or sticker is attached.

 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 the all 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.)



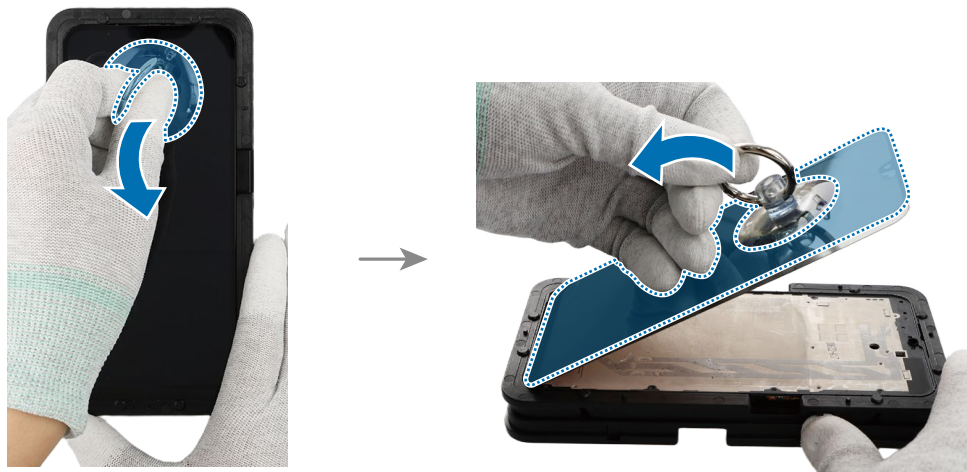
- 8 Place the suction cup in the centre of the screen and pull up the suction cup with strong, steady force to separate the screen from the device frame. Lift up the screen slowly and remove it completely from the device.

 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.

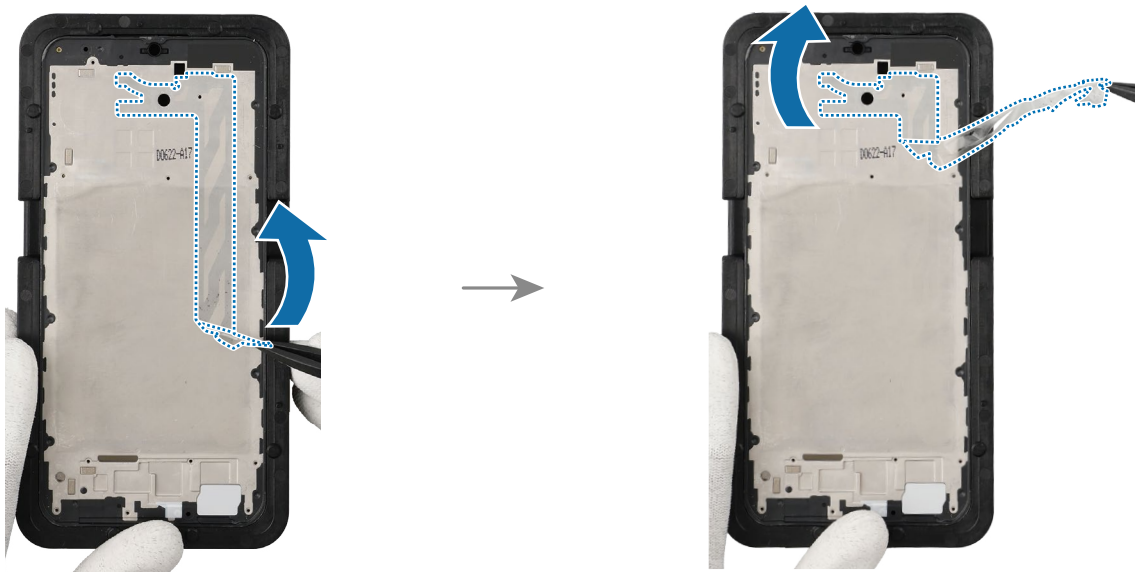


Reassembly

 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.

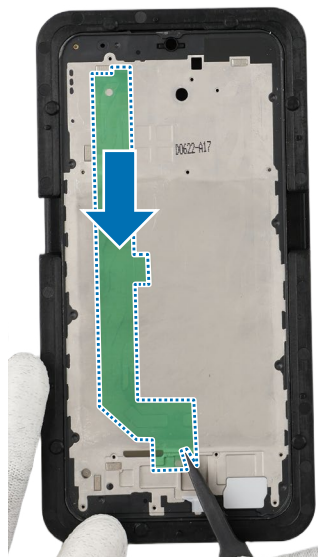
1 Using the tweezers, remove all adhesive tapes on the device frame.

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



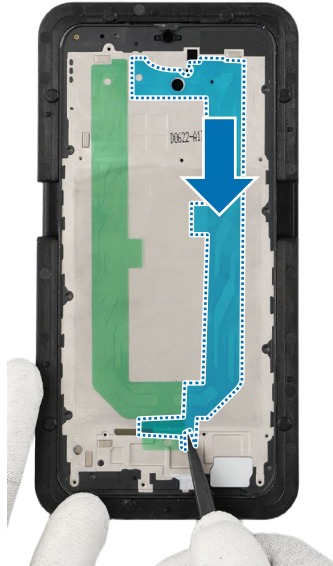
2 Remove the transparent film of the new screen left adhesive tape. Using the tweezers, align the adhesive tape precisely on the device frame and attach it.

-  Be careful not to damage the device and the near components.



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

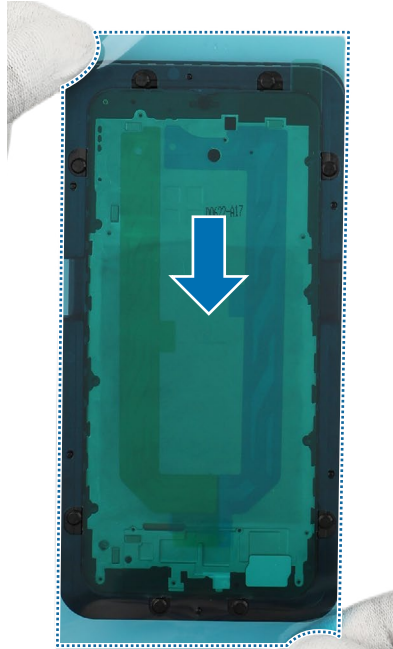
⚠ Be careful not to damage the device and the near components.



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



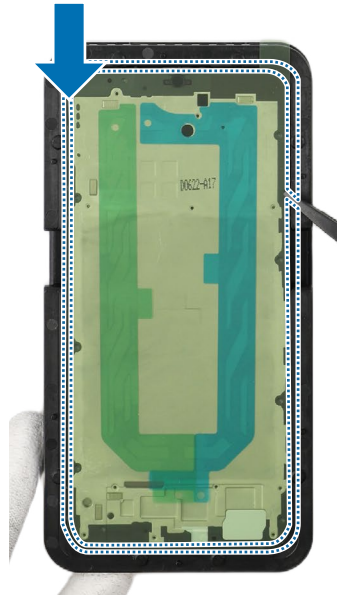
- 5 Remove the transparent film of screen side adhesive tape. Using the tweezers, align the adhesive tape precisely on the device frame and attach it.
- ⚠ Be careful not to damage the device and the near components.



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



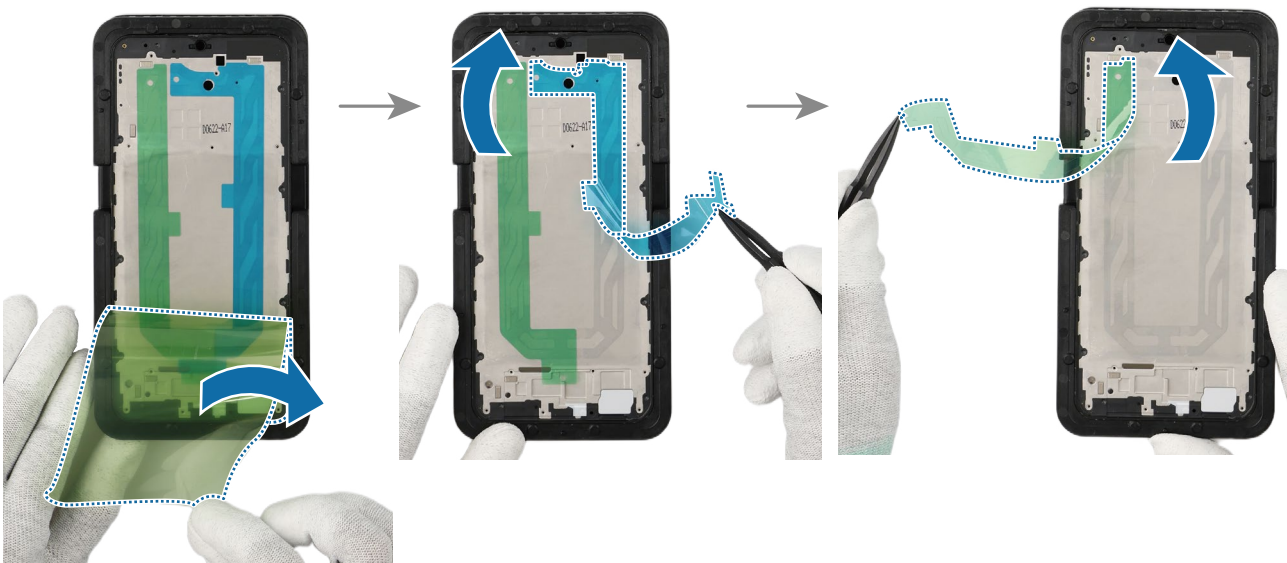
- 7 Using the tweezers, gently press around the edges of tape to ensure a secure fit.



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



Be careful not to damage the device and the near components.



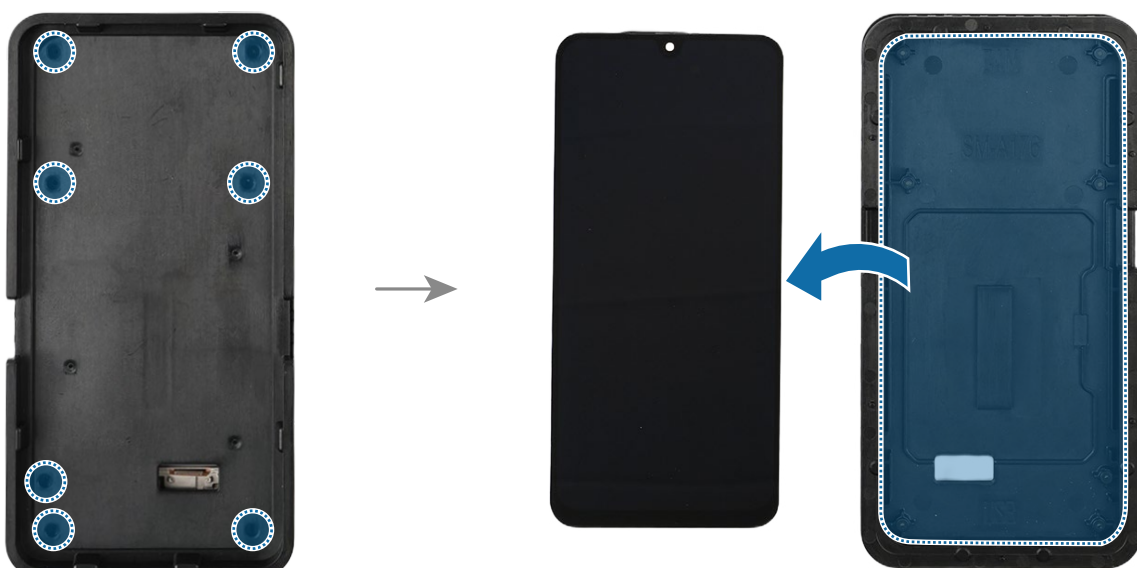
- 9 Carefully insert the screen connector of the new screen into the screen connector hole of the device frame and attach the screen slowly.



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

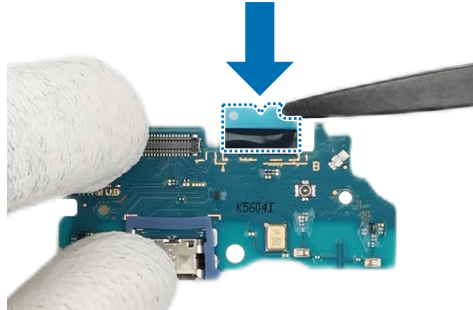


- 11 Check for the steps of the [Press](#). You can further press the fully assembled screen using the appropriate tool.
- 12 Check the 7 screws at the 7 different points on the rear and remove them using a cross-head screwdriver. Remove the display module from the display disassembly tool.
-  Check 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.



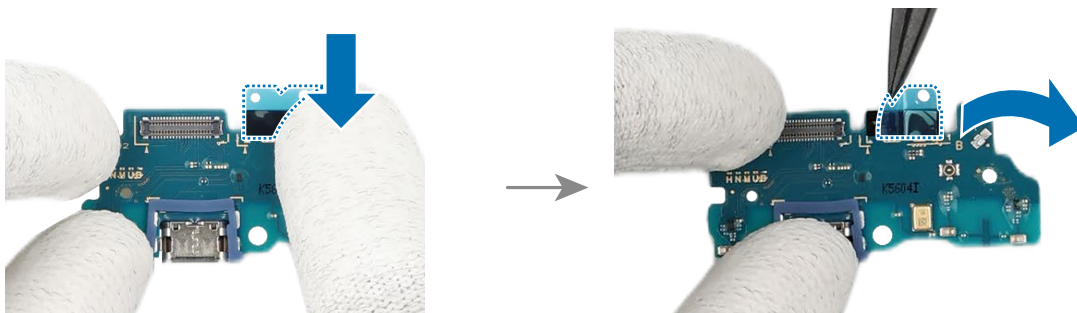
- 13 Using the tweezers, remove the clear film from the new screen module connector adhesive tape and apply it to the charging port module.

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



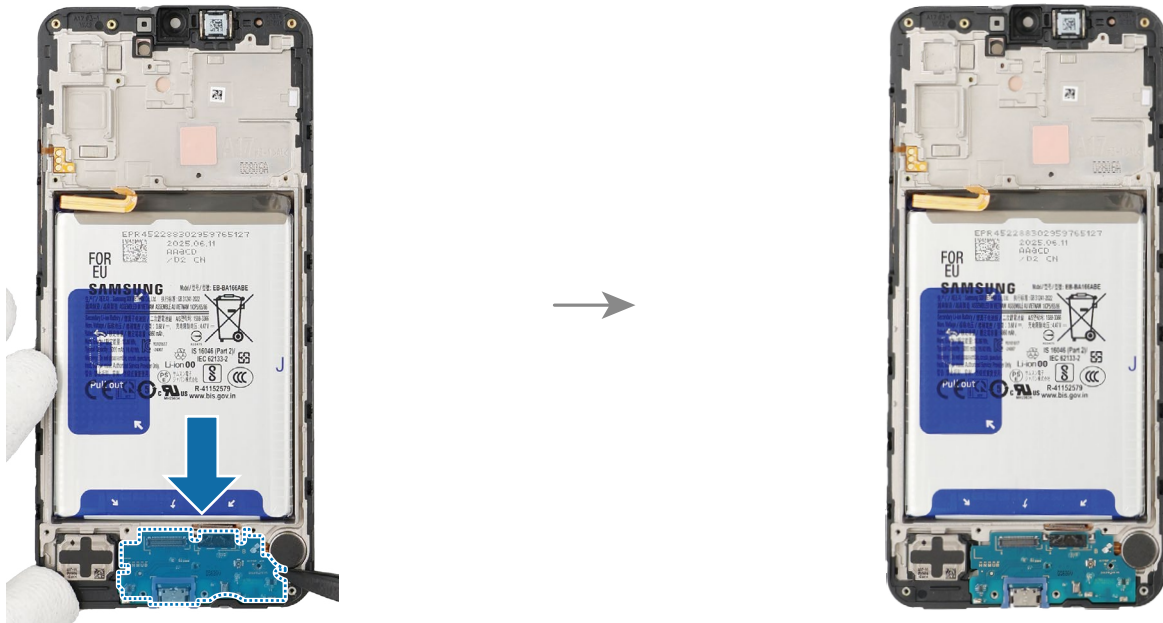
- 14 Press the adhesive tape with your fingers softly so that it can be attached well, and remove the release film from the tape.

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



- 15 Using the tweezers, insert the charging port module to the bottom device frame of device and press down on it in its position smoothly.

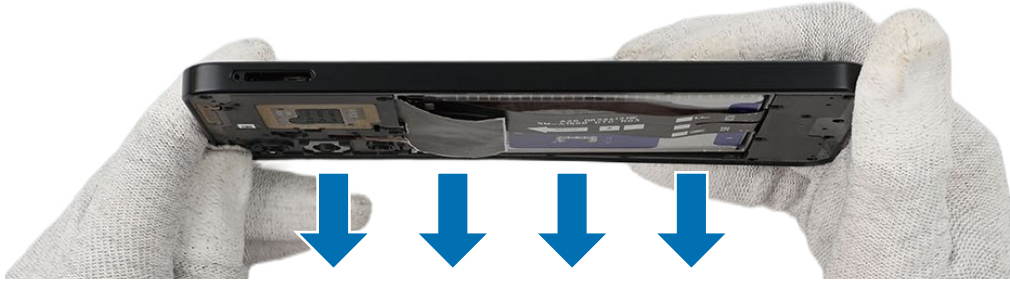
⚠ Be careful not to damage the charging port and the near components.



- 16 Check for the reassembly steps of the [Screen Module](#) and [Front Camera](#) and completely reassemble up to the bracket and the fingerprint recognition sensor connector.



- 17 Check carefully 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.

Battery



- The battery can only be replaced at an authorised repair shop. If the battery is faulty, contact Samsung for further action.
- The separated battery may be damaged. Do not use it again.

Disassembly



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

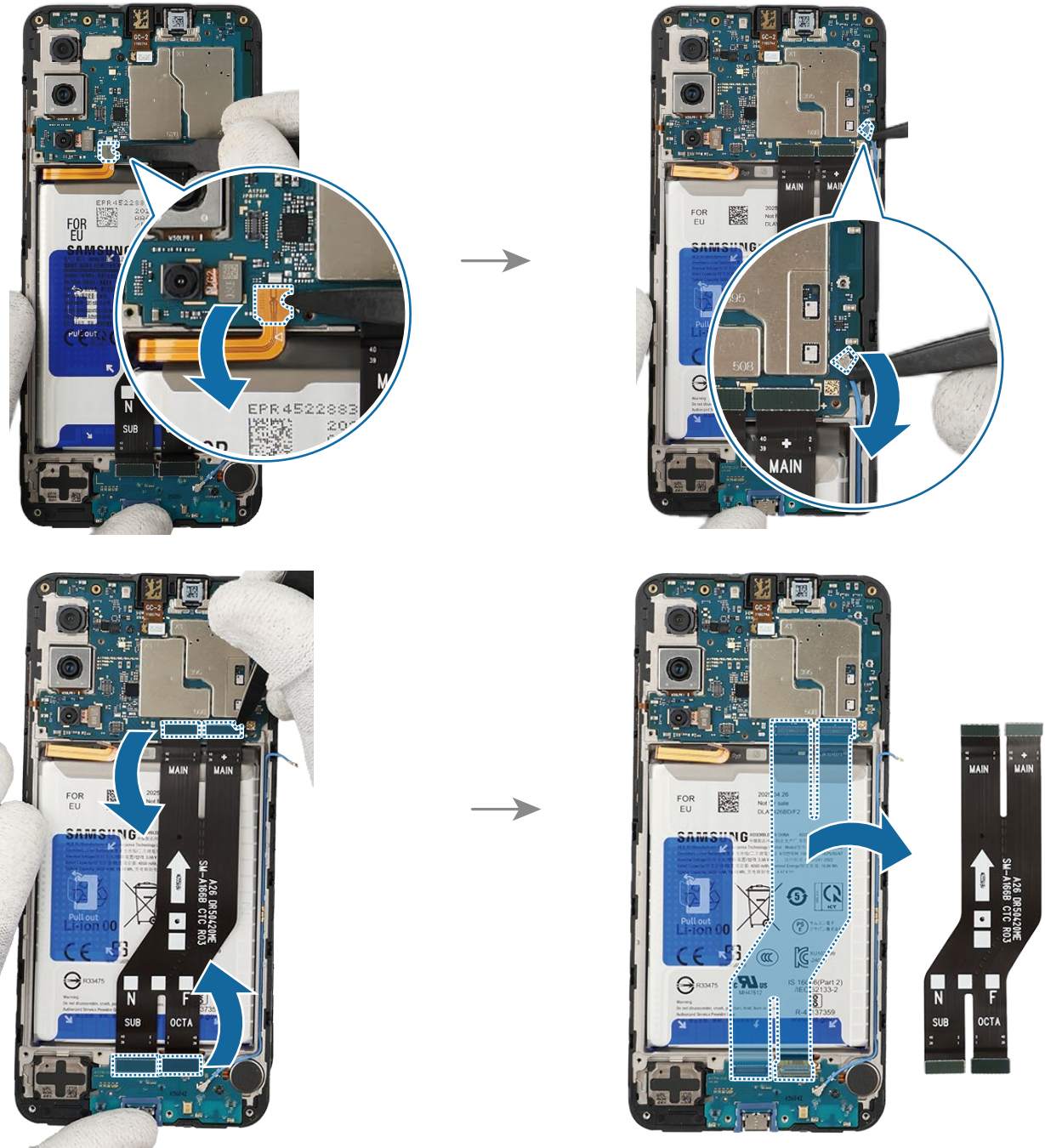
- 1 Check for the disassembly steps of the [Front Camera](#) and completely separate up to the bracket.



- 2 Using the tweezers, disconnect the battery connector first from the main board. Disconnect the coaxial cable connector from the main board and disconnect the 4 flex cable connectors and remove the flex cable completely.



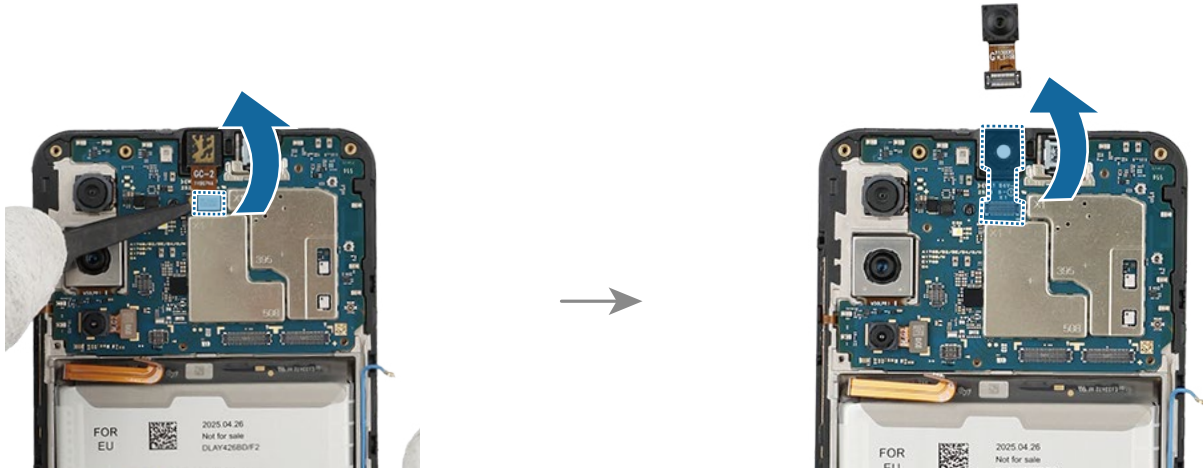
- When removing the connectors, be careful not to damage the cable.
- Be careful not to damage the near components.



3 Separate the front camera connector from the main board and remove the front camera carefully from device. Leave the camera lens facing up.



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



4 Check the 1 screw on the camera frame and the main board, and remove them using a cross-head screwdriver.



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



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



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

⚠ Be careful not to damage the battery.

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

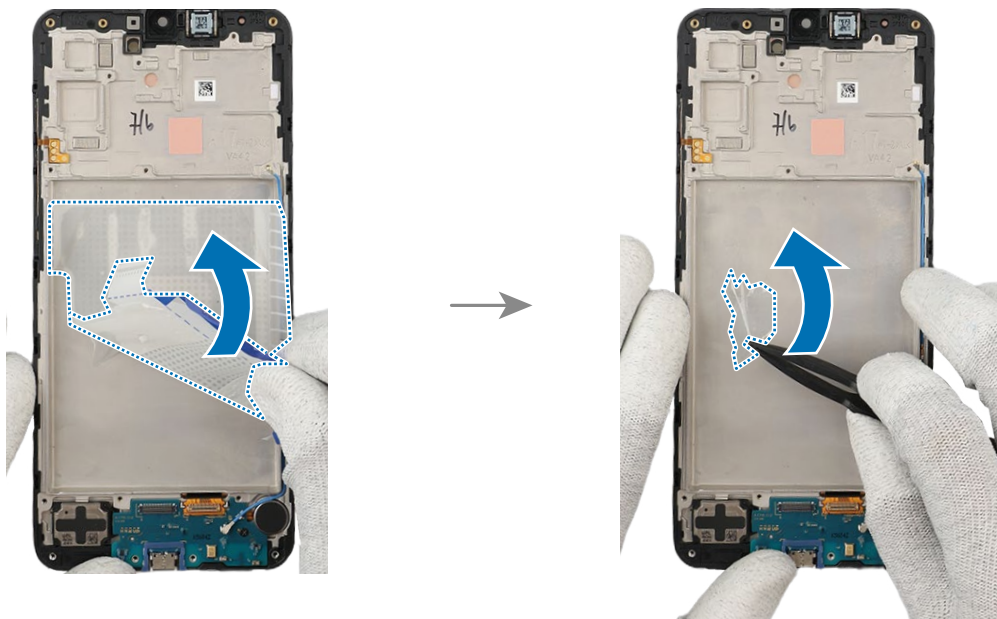


Reassembly

⚠ 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.

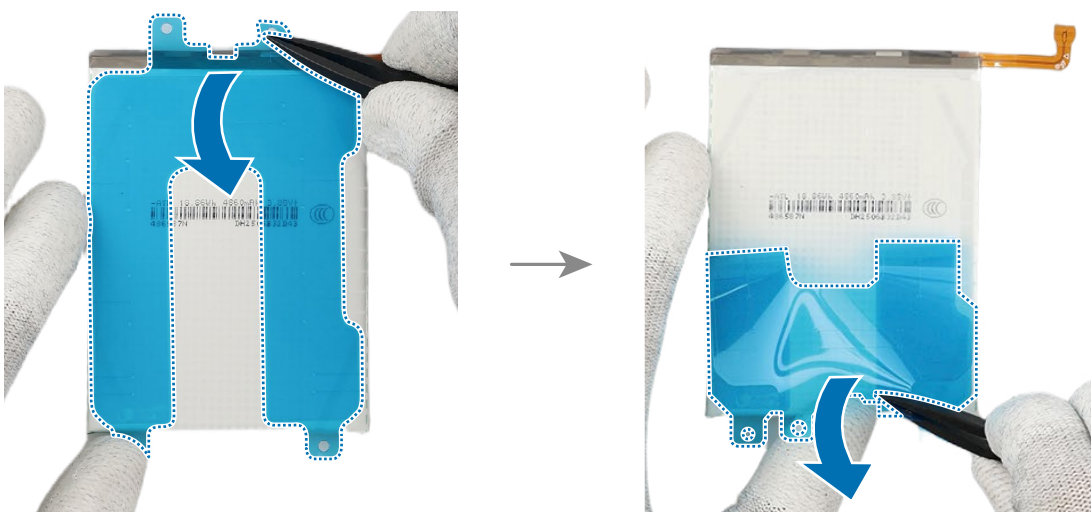
1 Remove the remaining adhesive tapes on the device frame.

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



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

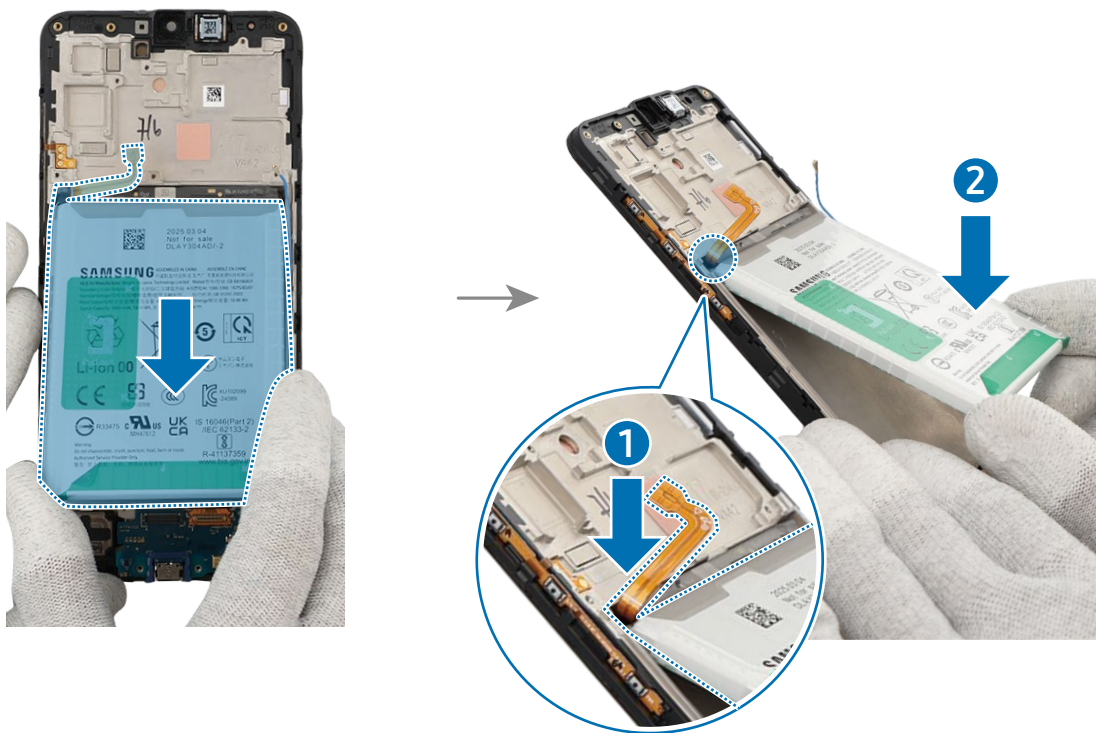
⚠ Be careful not to damage the battery.



- 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 device 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.

⚠ 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.

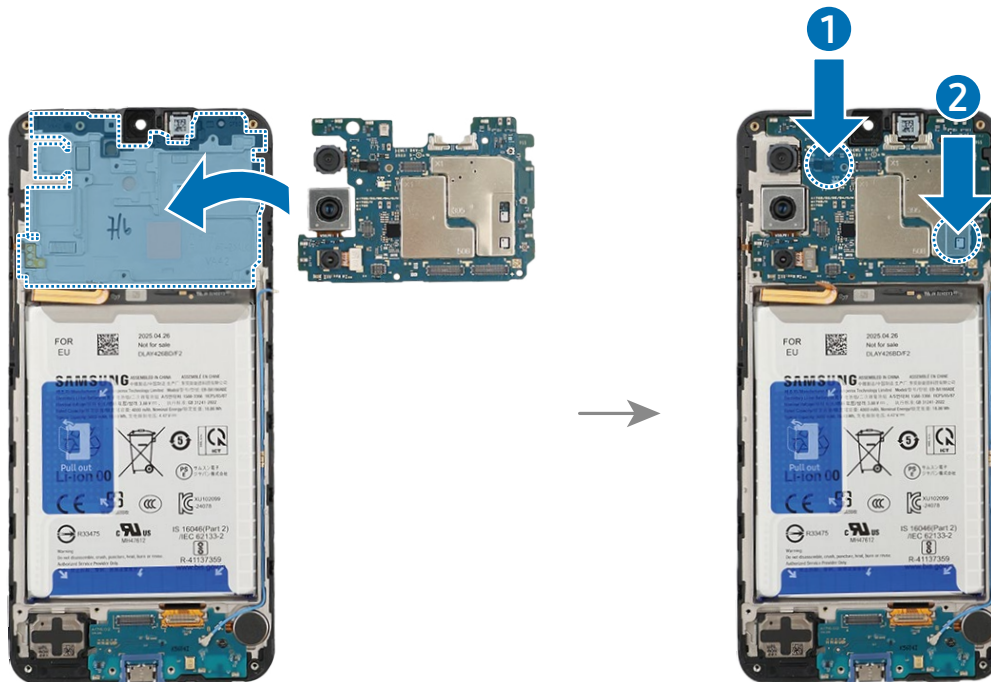


5 Check for the steps of the [Press](#). You can further press the fully assembled battery using the appropriate tool.

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

⚠ Be careful not to damage the battery.

⚠ Be careful not to damage the battery connector.



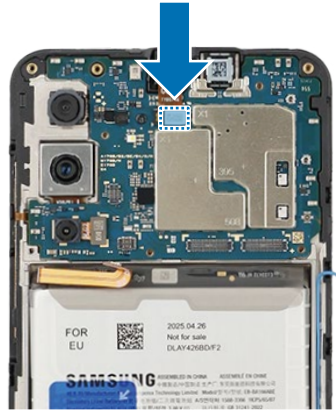
- 7 Check the screw 1530 (1 ea) at the different point on the main board and fasten the 1 screw using a cross-head screwdriver.

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



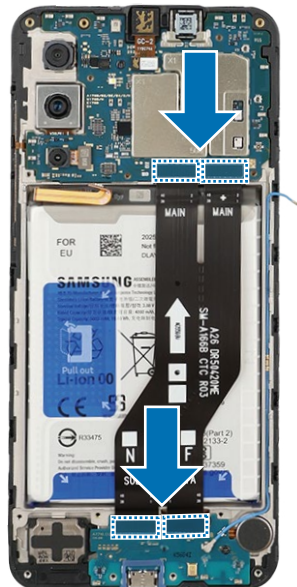
8 Using the tweezers, place the front camera in the camera hole so that the lens faces forward, and gently insert the front camera. Connect the camera connector carefully on the main board.

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

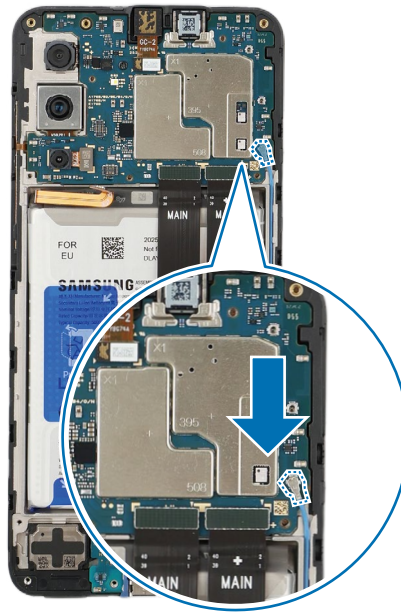


9 Place the flex cable to the device frame and connect the 4 connectors carefully.

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



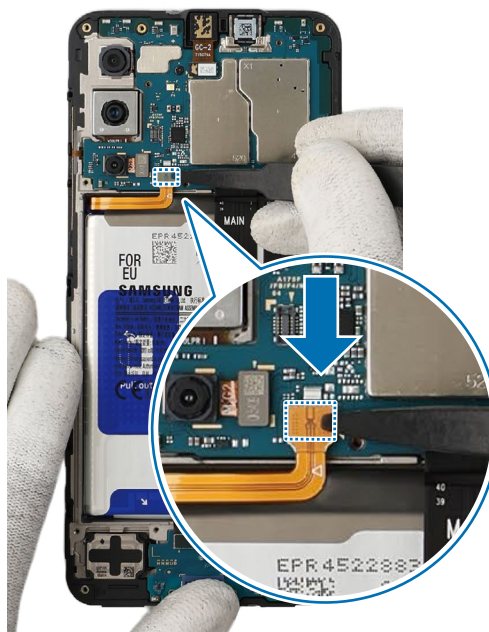
10 Using the tweezers, connect the coaxial cable connector to the main board.



11 Connect the battery connector to the main board.

⚠ Be careful not to damage the battery.

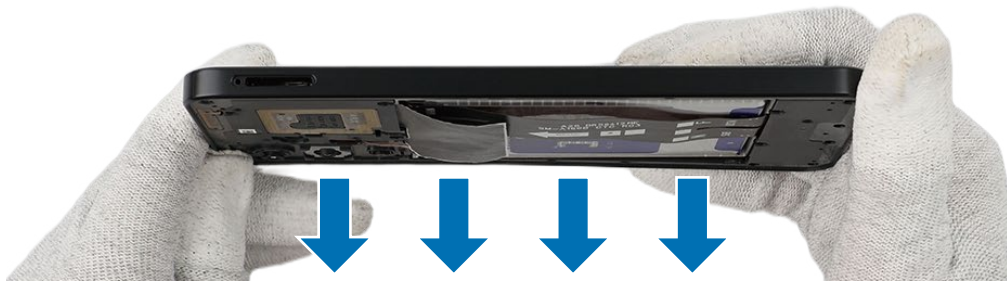
⚠ Be careful not to damage the battery connector and near components.



- 12 Check for the reassembly steps of the [Front Camera](#) and completely reassemble up to the bracket and the fingerprint recognition sensor connector.



- 13 Check carefully 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 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 the 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.

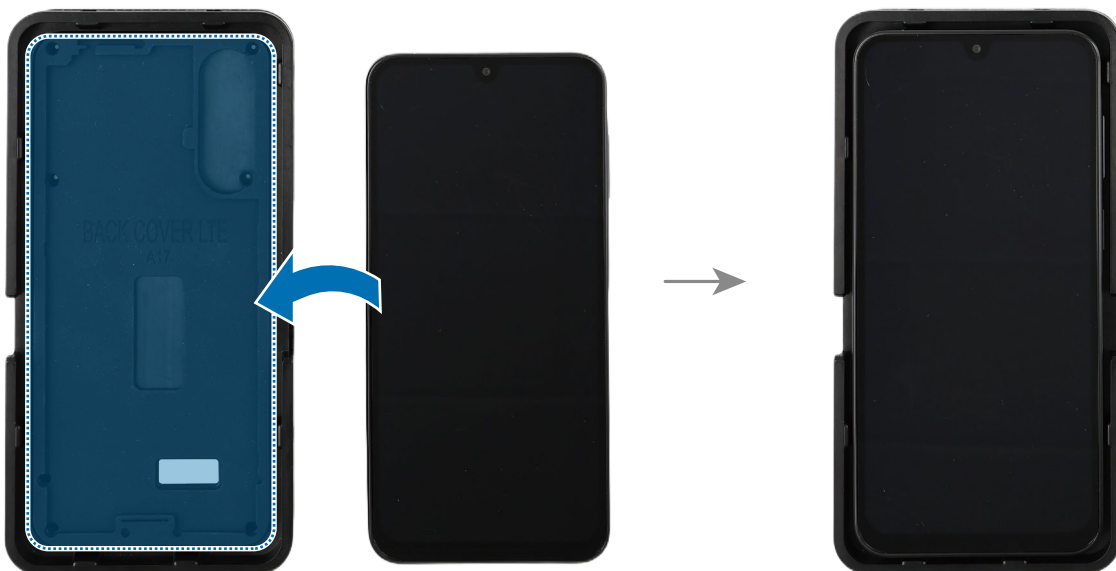
Back Cover

 Appropriate tool for pressing depends on the parts repaired.

- 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.



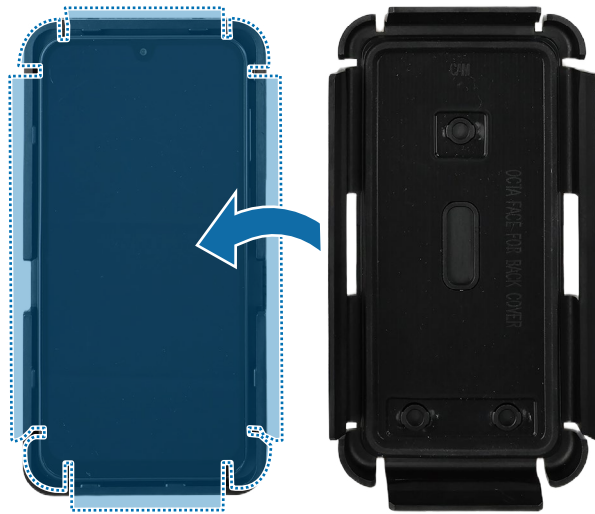
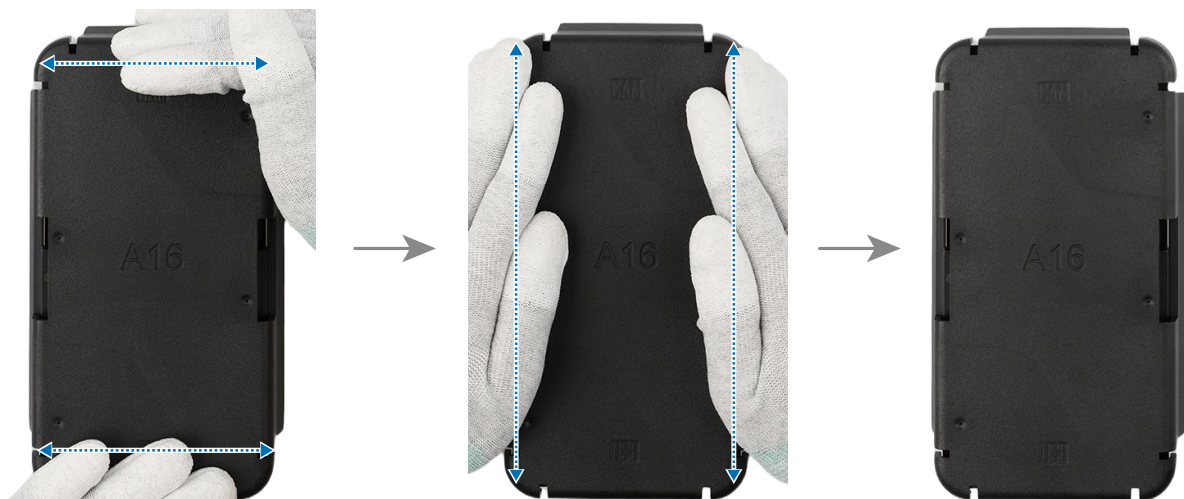
3 Insert the top rubber pad to the top press tray, and press down on it in its position smoothly.

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

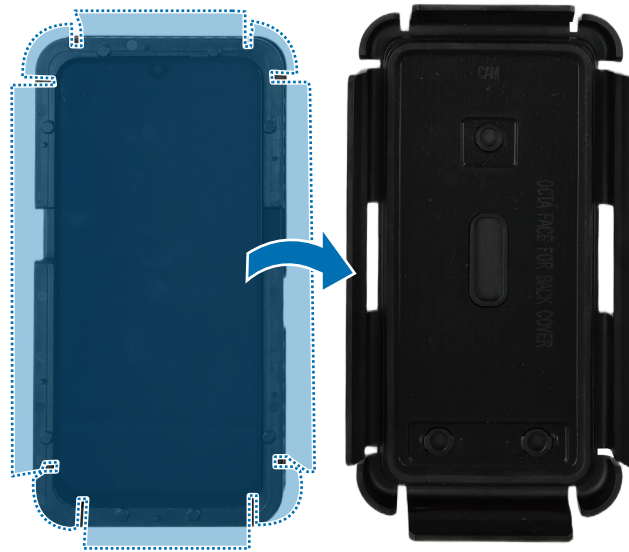
📌 Rubber pad may vary depending on the device.



- 4 Cover the top press tray to fit over the bottom press tray, and press until you hear a clicks 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 plate.



- 6 Disconnect the device from the bottom press tray.

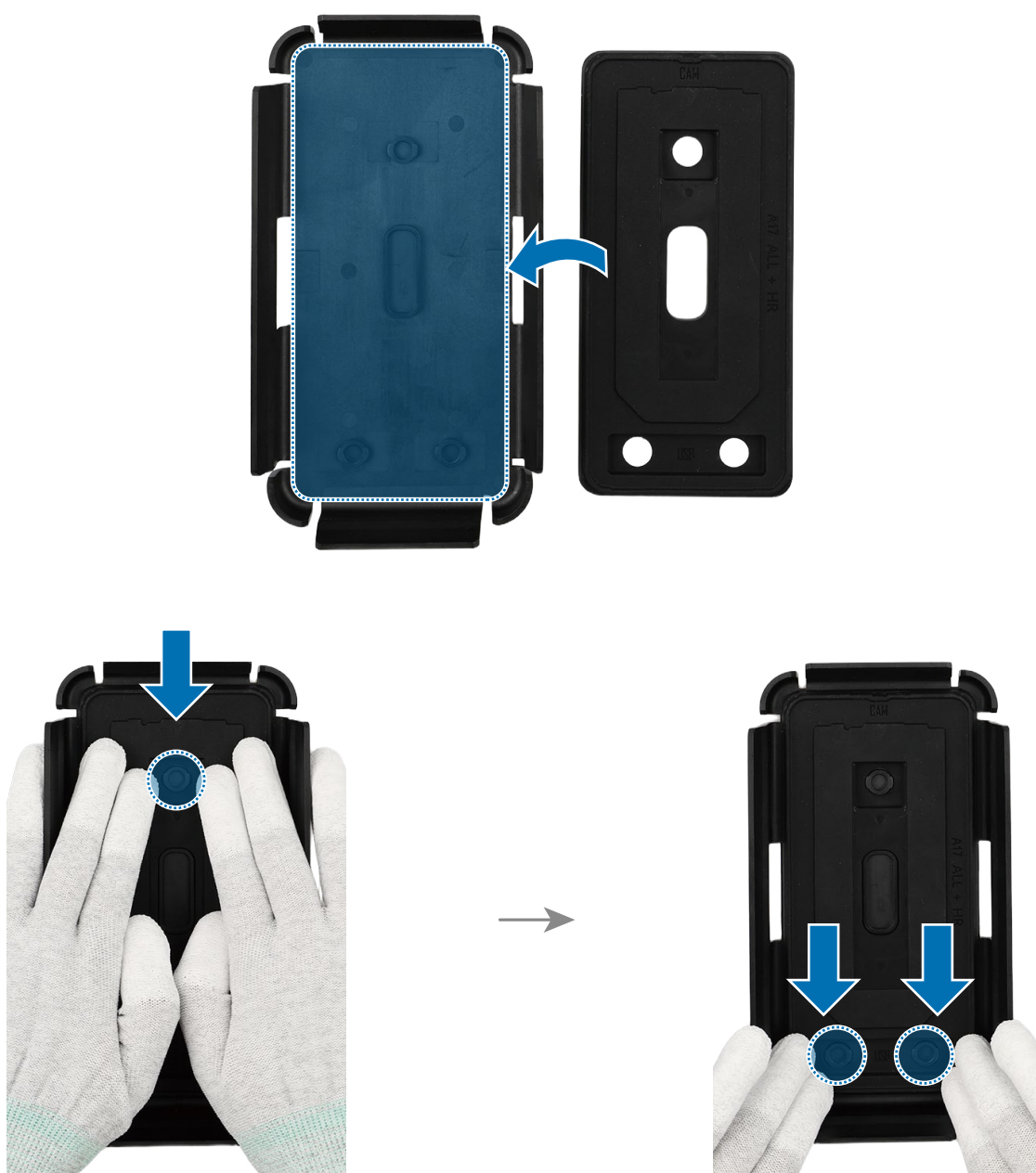


Screen

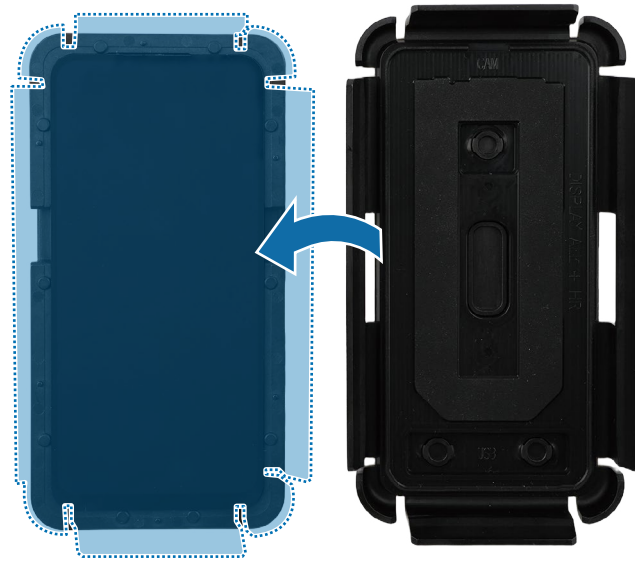
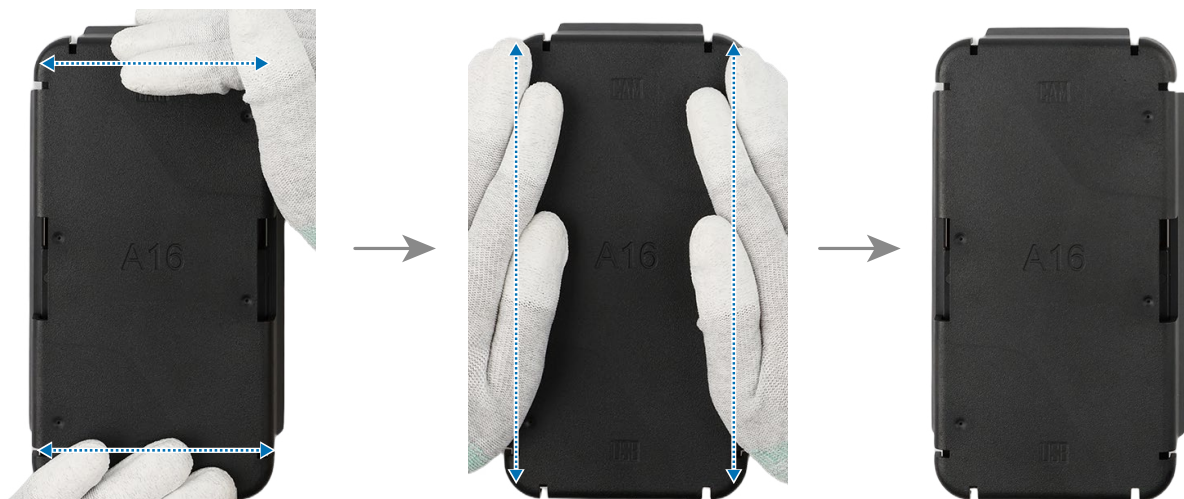
1 Insert the top rubber pad to the top press tray, and press down on it in its position smoothly.

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

📝 Rubber pad may vary depending on the device.



- 2 Cover the top press tray to fit over the bottom press tray, and press until you hear a clicks all 4 sides. Then, leave it fixed for 5 minutes.

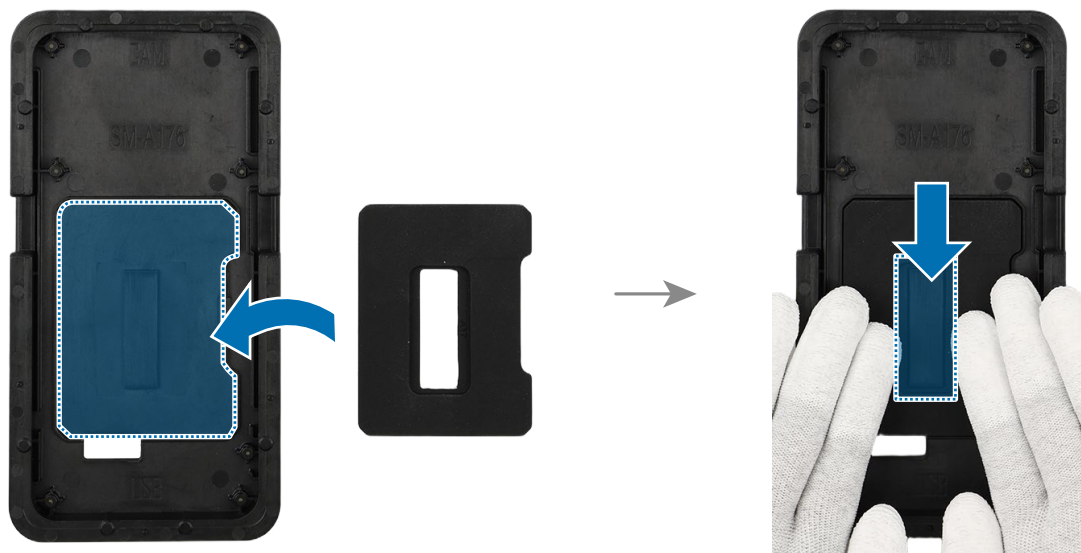


- 3 After 5 minutes, slightly lift the clips on top, bottom, left, and right sides to separate the top press tray.



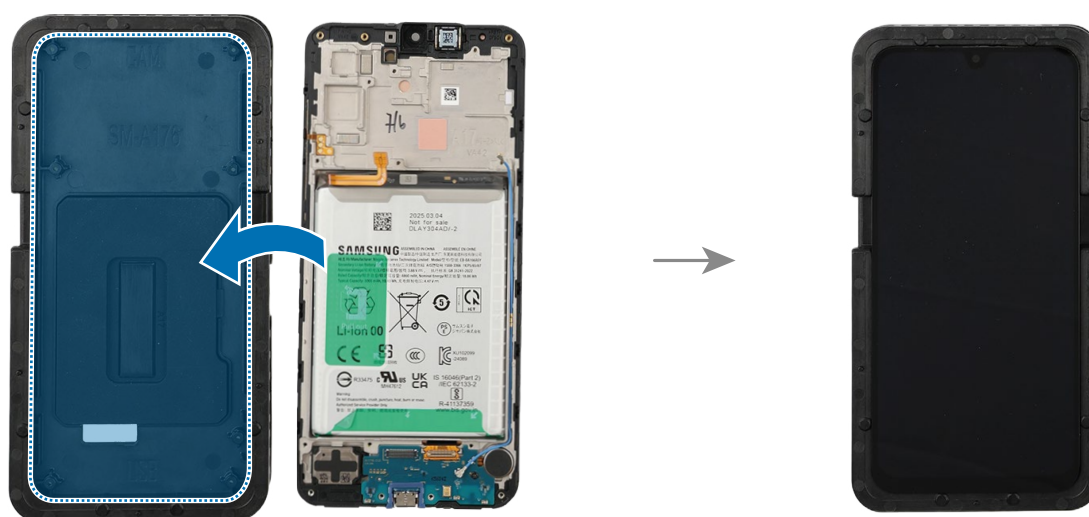
Battery

- 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.

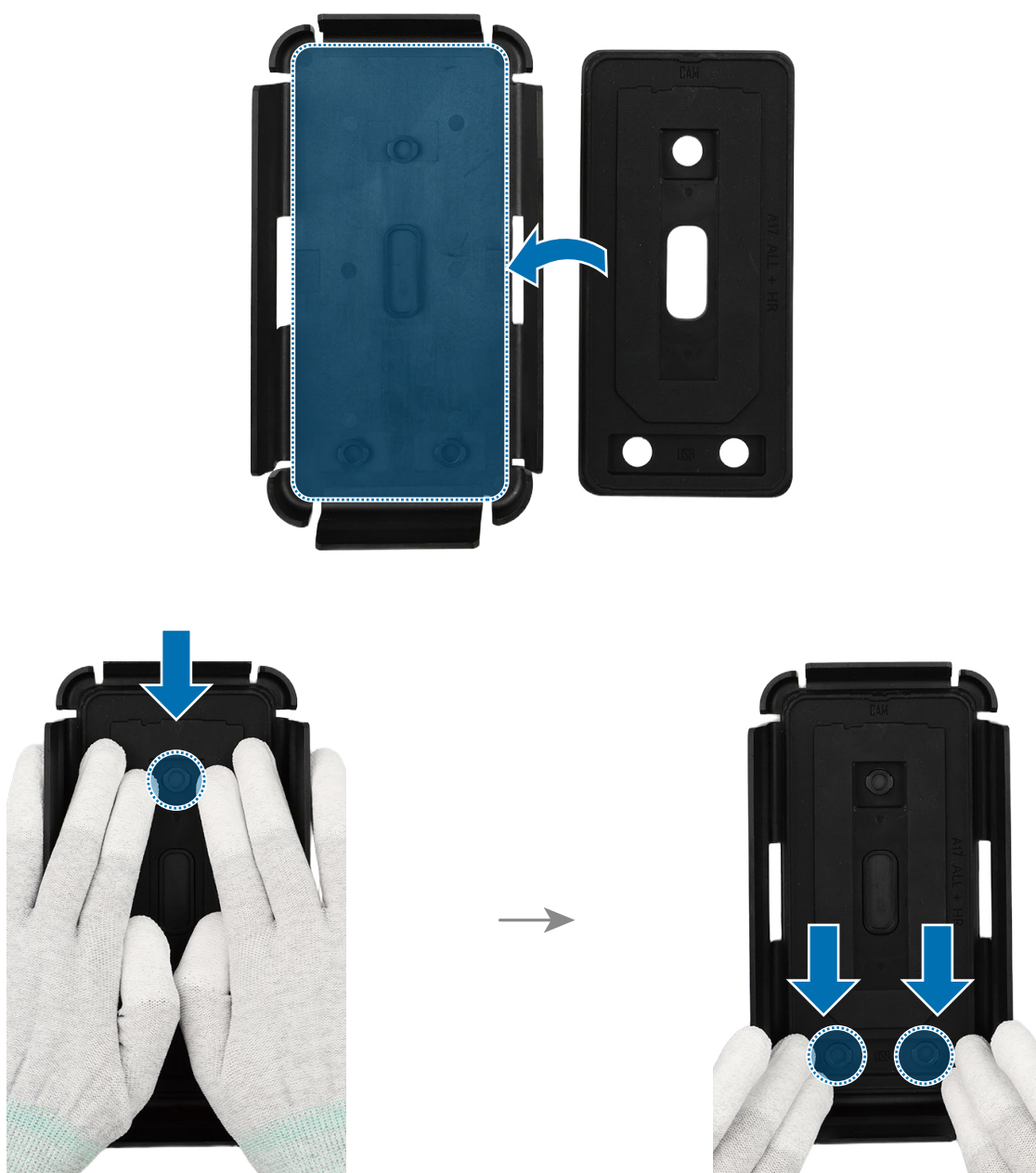
- ⚠ Be careful not to damage the battery.
- ⚠ Be careful not to damage the near components.



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.

📝 Rubber pad may vary depending on the device.



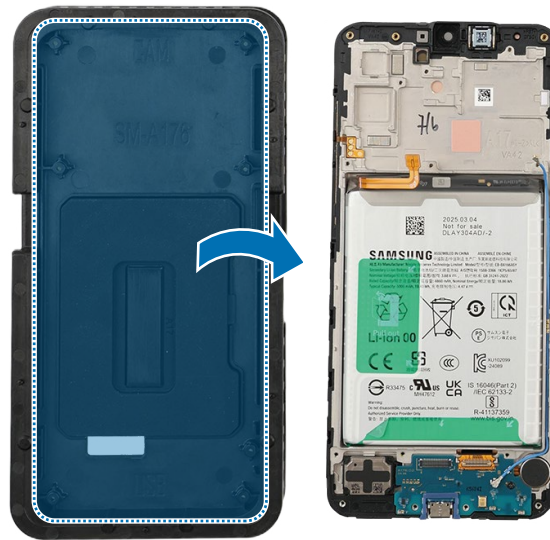
- 4 Cover the top press tray to fit over the bottom press tray, and press until you hear a clicks. Then, leave it fixed for 5 minutes.



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

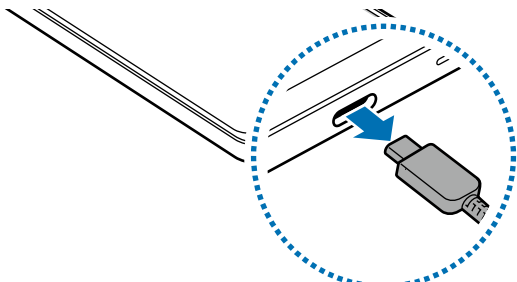


- 6 Disconnect the screen module from the bottom press tray.



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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