

SAMSUNG

REPAIR GUIDE

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Usage Notices

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

Precautions for Repair

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

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

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




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

ESD (Electrostatic Discharge) Precautions

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

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

Instructional Icons


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

Software Update

Updating Software through FOTA

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

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


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

Software Update Failure

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

Updating Software through Smart Switch

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



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

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

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



Recovering from a Software Update Failure

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

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

Recovering on Another Computer


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

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

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

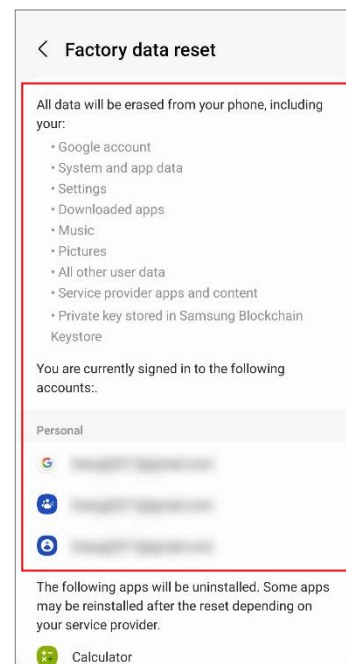
Performing a Factory Data Reset

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

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


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

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



3 Tap **Reset** → **Delete all**.

All data will be deleted when rebooting.

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

Quality Test

Quality Test Using the Samsung Members App

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

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

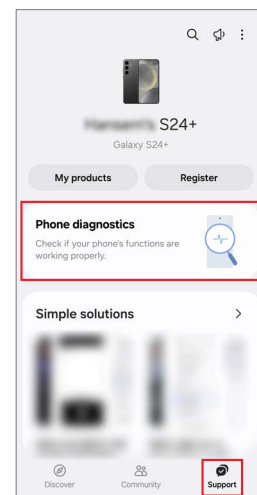
Device Diagnostics

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

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

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

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

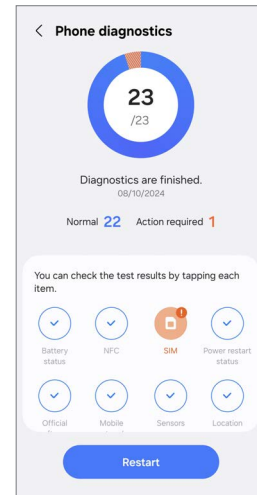


3 Tap **Test all**.

The device performs a test on all items.

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

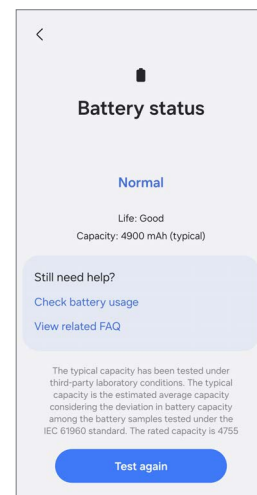
- Tick mark: Working normally
- Exclamation mark: Needs further inspection
- The test proceeds automatically, but you may need to follow the on-screen instructions depending on the test item. Keep an eye on the screen during testing to ensure smooth progress.
- If the exclamation mark appears on any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



Test Items

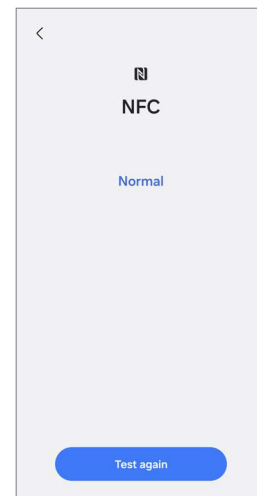
Battery status

Check the battery life and capacity.



NFC

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

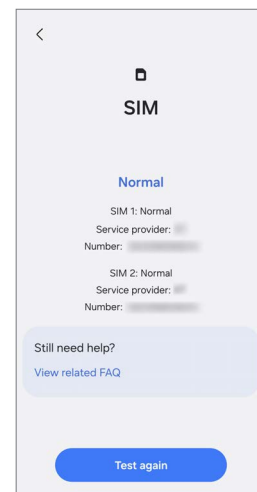


SIM

Check whether the SIM is working normally.

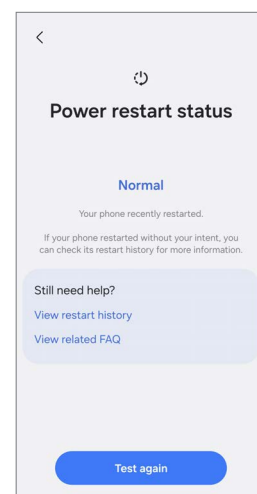


If the test result is not **Normal**, remove the SIM card from the SIM card tray and replace it. If possible, try again with another SIM card.



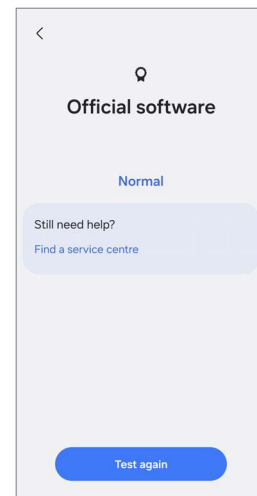
Power restart status

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



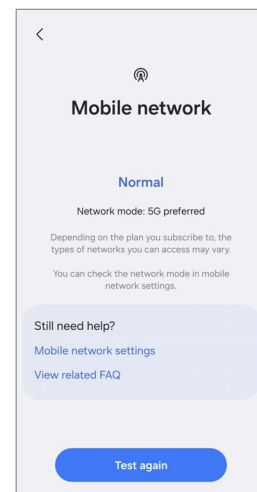
Official software

Check whether the official software is being used.



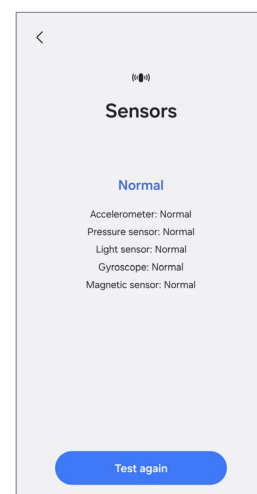
Mobile network

Check whether your mobile network is working normally.




Sensors

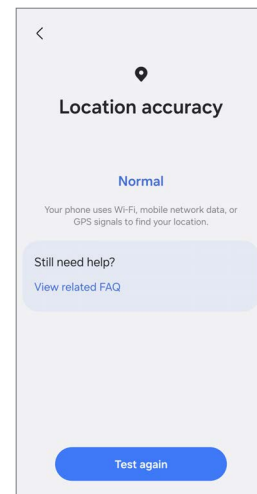
Check whether the sensors are working normally.



Location accuracy


Check whether the location feature is working normally.

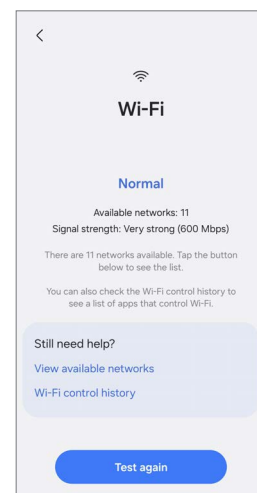
-  The results might be more accurate when you test outside.



Wi-Fi


Check whether the Wi-Fi feature is working normally.

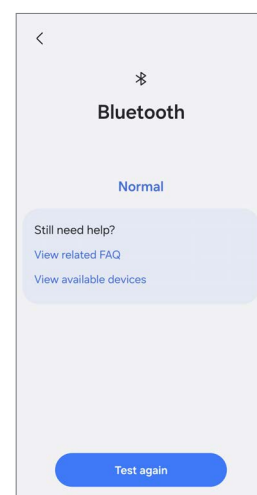
-  To test this feature, the Wi-Fi feature must be activated.



Bluetooth

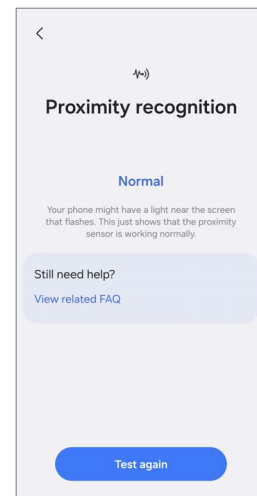
Check whether Bluetooth can search for other Bluetooth devices.

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



Proximity recognition

Check whether the proximity recognition feature is working normally.

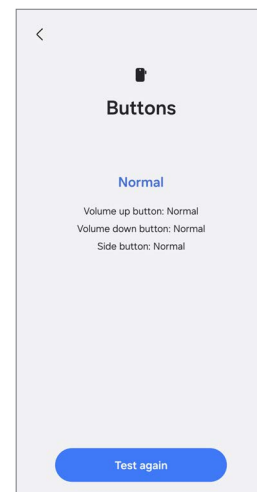


Buttons

Check whether the buttons are working normally.

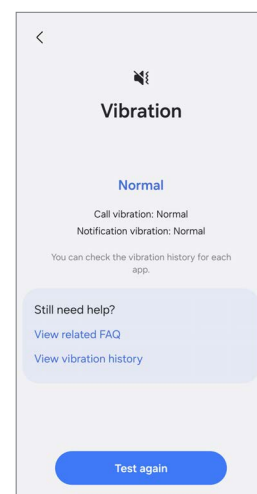


Make sure that the buttons are not contaminated to get more accurate test results.




Vibration

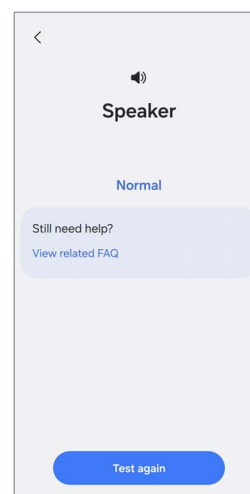
Check whether the vibration feature is working normally.



Speaker



Check whether the speakers are working normally.

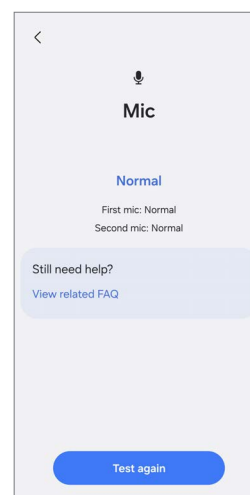
-  If you cannot hear the sound well, check whether the media volume is turned up and if the speaker is obstructed by foreign objects, the case, or the protective film.



Mic


Check whether the microphones are working normally.

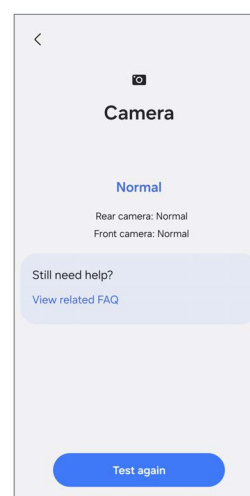
-  The number of tests may vary depending on the model.
-  If you cannot hear anything after recording, check whether the media volume is turned up and if the microphone or speaker is obstructed by foreign objects, the case, or the protective film.



Camera


Check whether the cameras are working normally.

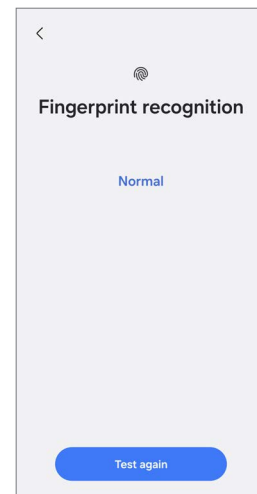
-  To test this more accurately, check if the camera is obstructed by foreign objects, the case, or the protective film.



Fingerprint recognition


Check whether the fingerprint recognition sensor is working normally.

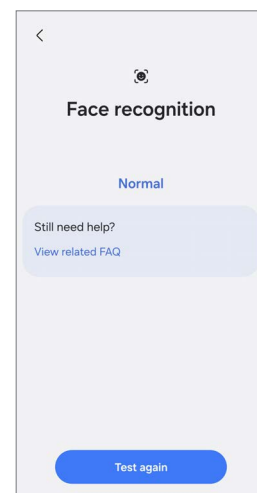
-  To test this feature, your fingerprint must be registered.



Face recognition


Check whether the face recognition sensor is working normally.

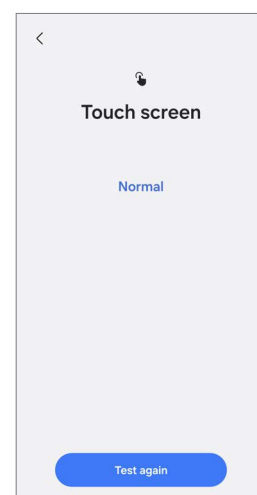
-  To test this feature, your face must be registered.



Touch screen


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

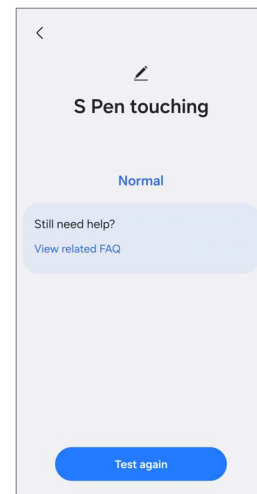
-  Make sure that the screen is clean to get more accurate test results.



S Pen touching

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

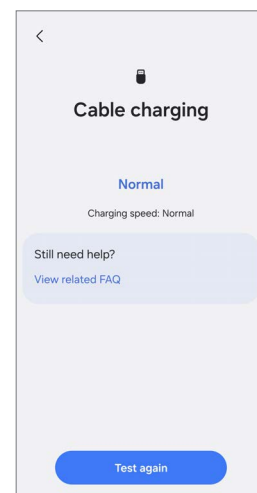
-  Make sure that the screen is clean to get more accurate test results.
- This test is only available for the S Pen supported models.



Cable charging

Check whether the cable charging feature is working normally.

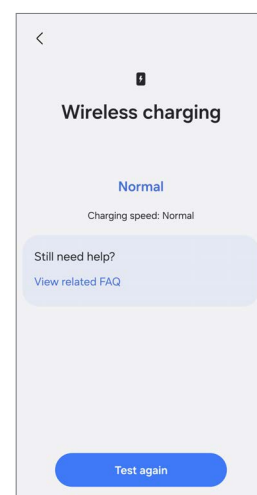
-  Use only Samsung-approved chargers.



Wireless charging


Check whether the wireless charging feature is working normally.

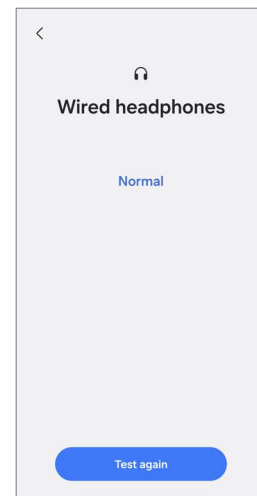
-  Use only Samsung-approved wireless chargers.



Wired headphones


Check whether the headphone jack recognises the headphones normally.

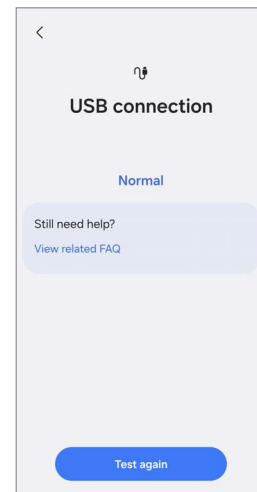
-  To test this feature, you must connect headphones.



USB connection

Check whether the multipurpose jack recognises the USB cable normally.

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



Calibrations

Calibrations

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

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



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

Used Parts and Calibration Functions in Supported Models

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

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



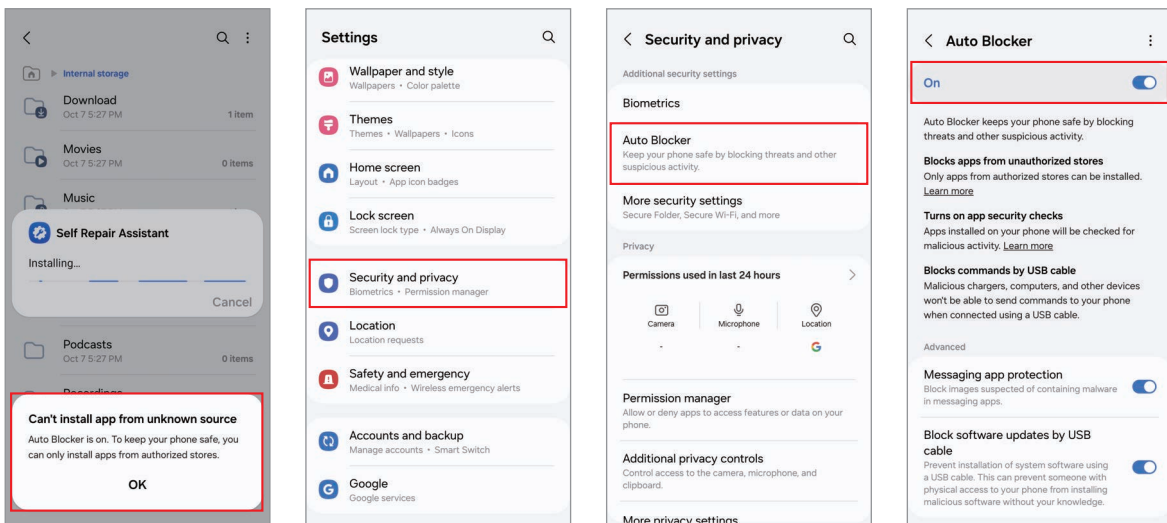
- Depending on the model, the screen module may include batteries. So when the screen module is replaced, the battery also has to be selected and a battery cycle reset must be performed.
- In the Fold models, touch screen panel calibration is performed for both the main and cover screens.
- Digital hall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

Using the Self Repair Assistant App

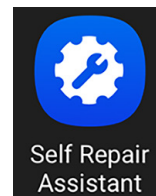
1 Download the **Self Repair Assistant** app from **Galaxy Store**.



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

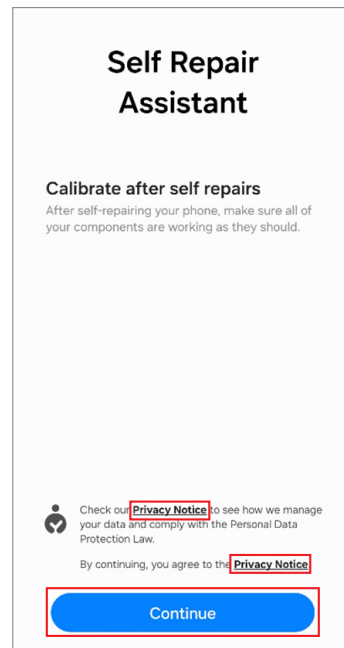
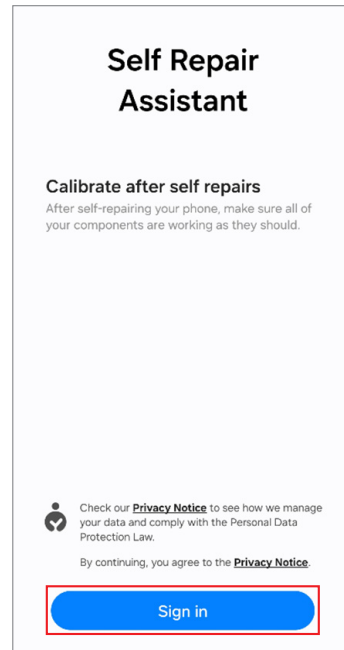


2 Launch the **Self Repair Assistant** app.

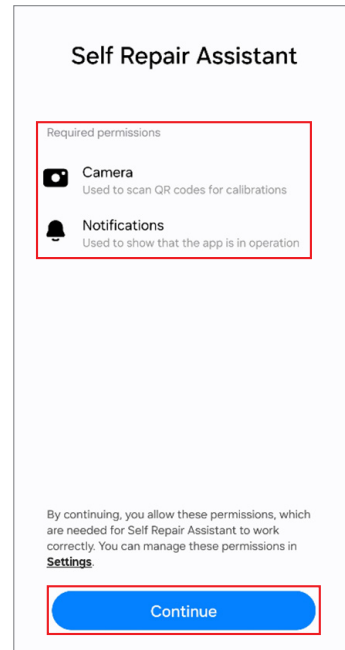


3 Read Privacy Notice and tap **Continue**.

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



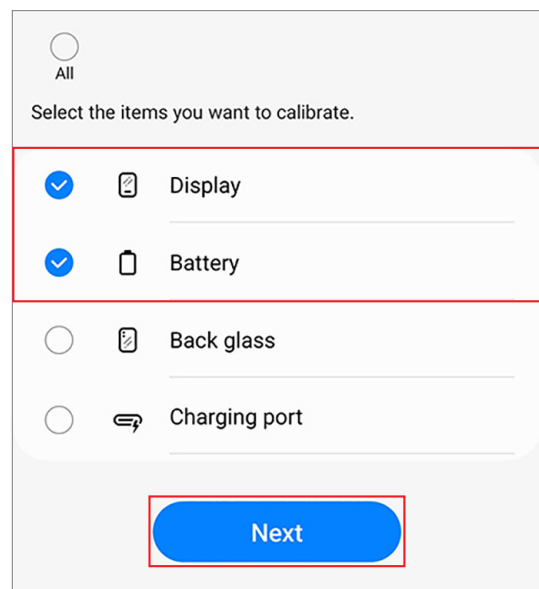
4 Check permissions and tap **Continue**.




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



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



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

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

Optical fingerprint sensor calibration

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

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

Start

Skip

Camera range sensor calibration

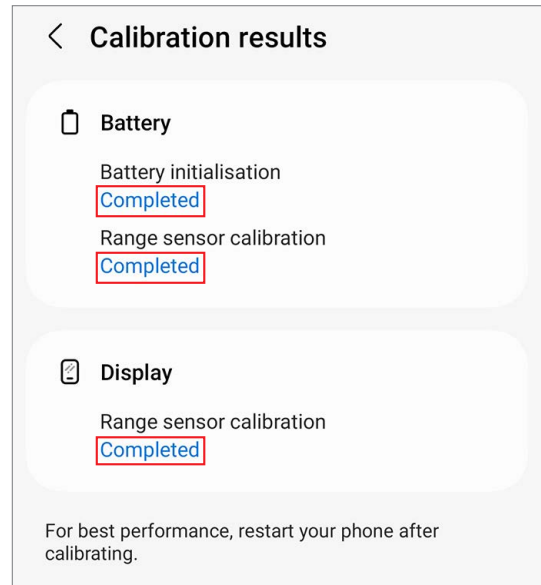
This calibration needs to be done in the dark. Move to a dark room before starting this calibration.

Start

Skip

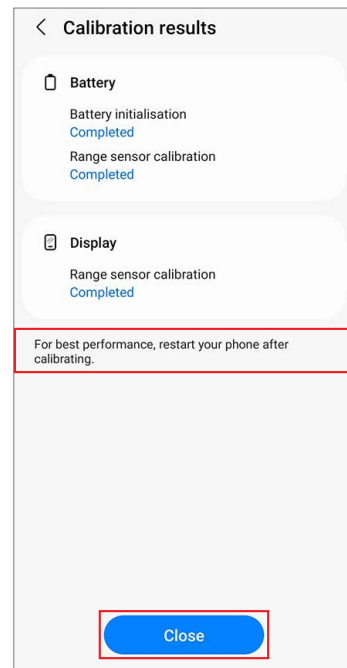
7 Check the results of each calibration item.

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



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

Restart your device to finish calibrating.



Optical Fingerprint Sensor Calibration

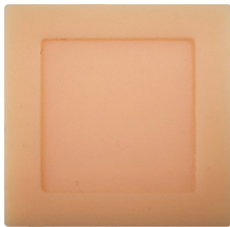
Whenever the screen is replaced, the optical fingerprint sensor must be calibrated to guarantee optimised fingerprint sensor performance for devices that have it.

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



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

White calibration box



Black calibration box



3D fingerprint dummy rubber

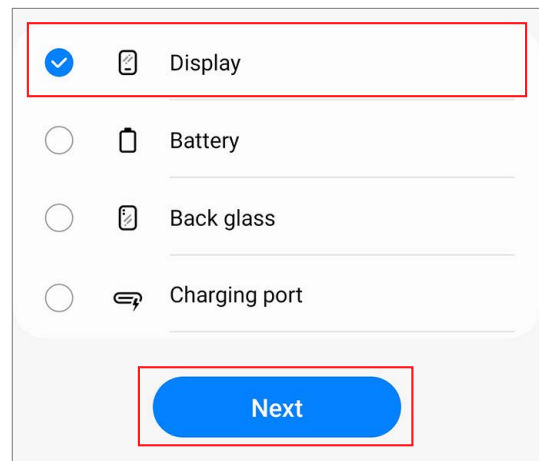


1 Launch the **Self Repair Assistant** app.

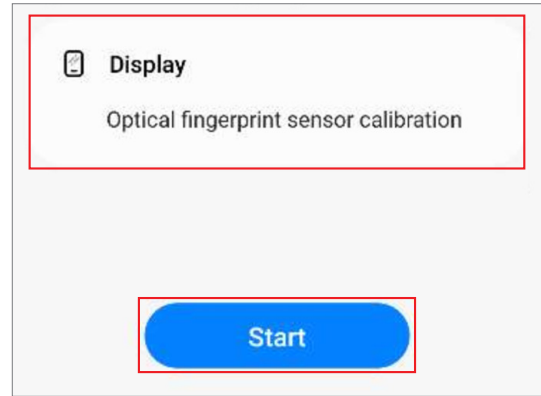
2 Tap **Display** → **Next**.




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

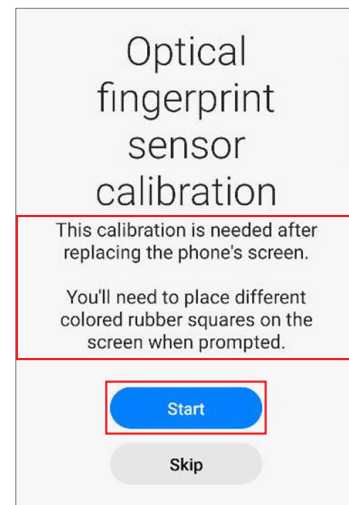


- 3 Check the part and calibration and then tap **Start**.




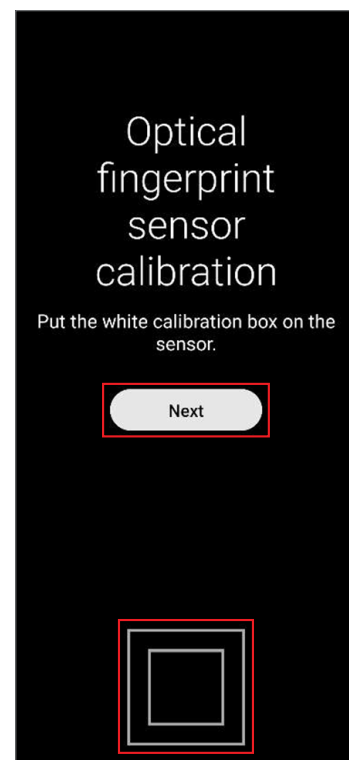
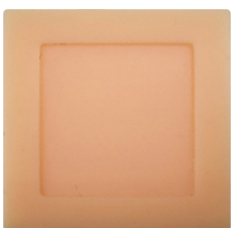
- 4 Read the on-screen instructions and tap **Start**.

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




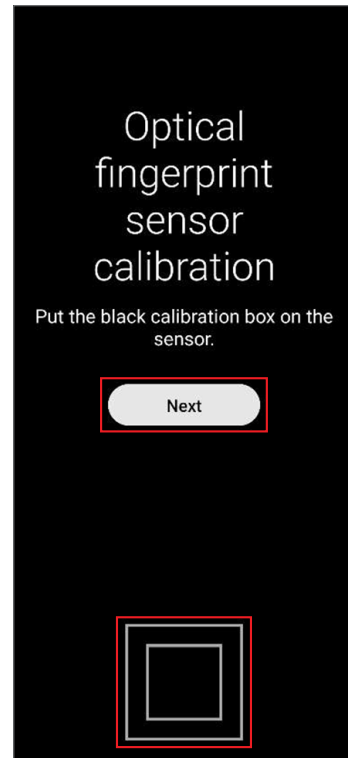
- 5 Put the white calibration box on the sensor area (below the square side) and push the rubber by applying force with your finger. Tap **Next** and keep pushing the rubber with your finger until you see the success message.

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




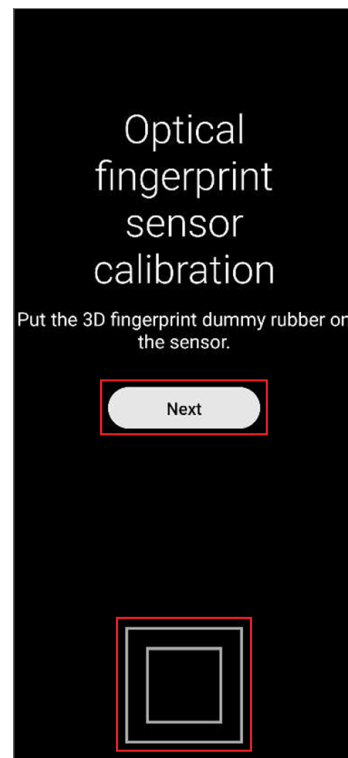
6 Put the black calibration box on the sensor area (below the square side) and push the rubber by applying force with your finger. Tap **Next** and keep pushing the rubber with your finger until you see the success message.

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




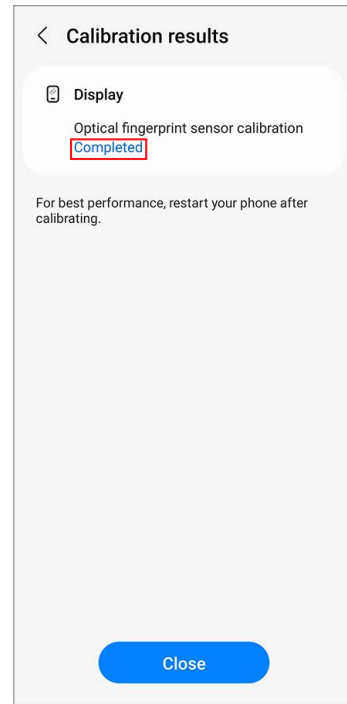
7 Put the 3D fingerprint dummy rubber on the sensor area (below the square side) and push the rubber by applying force with your finger. Tap **Next** and keep pushing the rubber with your finger until you see the success message.

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



8 Check the result of the calibration.

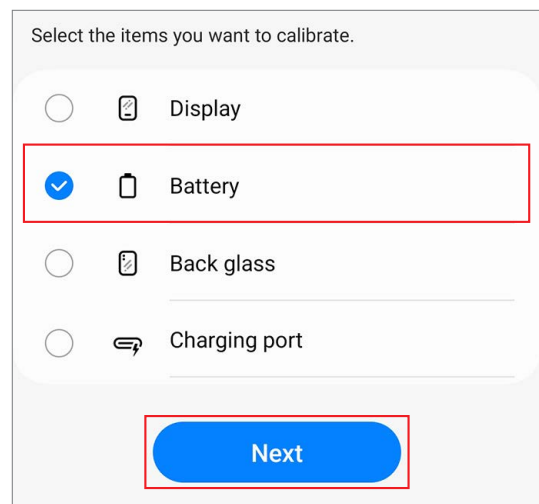
-  **Completed** appears only when the calibration is successfully completed. If **Completed** does not appear, try calibrating again.



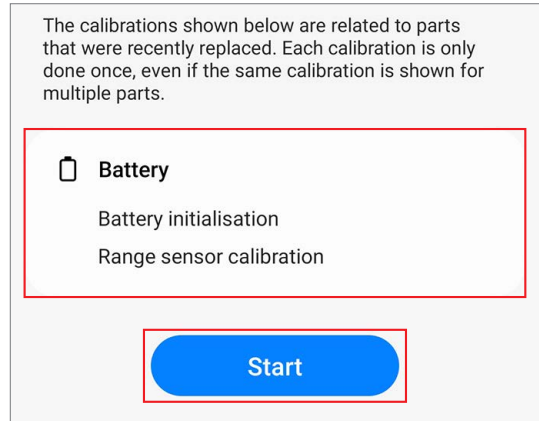
Resetting the Battery Cycle Count

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

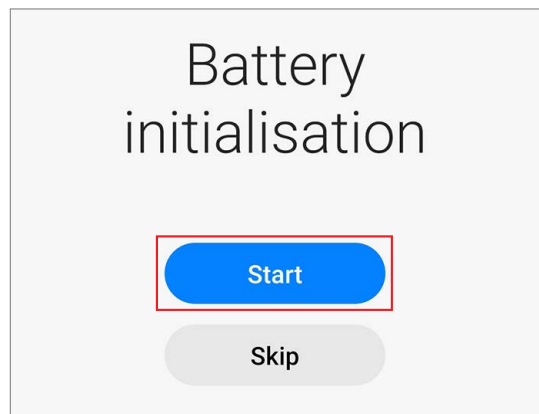
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced. Tap **Battery** → **Next**.



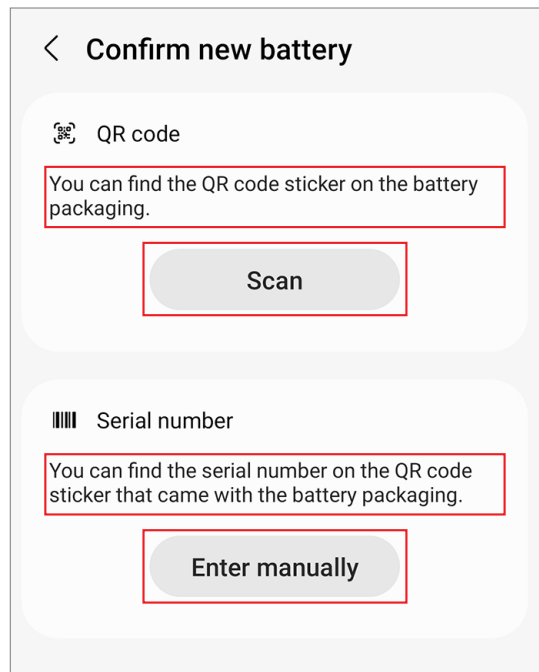
3 Check part and calibration and tap **Start**.



4 Tap **Start**.




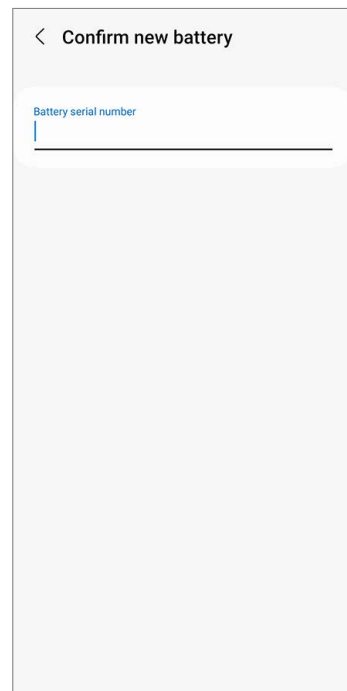
5 Read the on-screen instructions and tap **Scan** to scan the QR code, or tap **Enter manually** to enter the serial number manually.



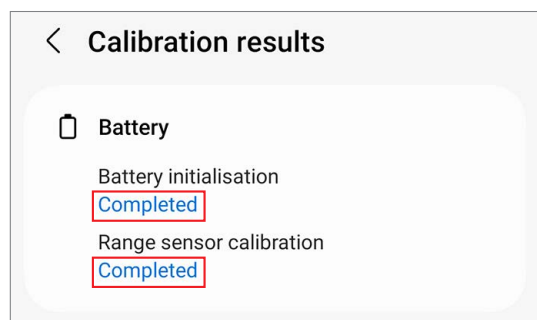
6 Scan the QR code or enter the serial number that appears on the battery package.

The reset will begin.

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




7 Check the calibration results.



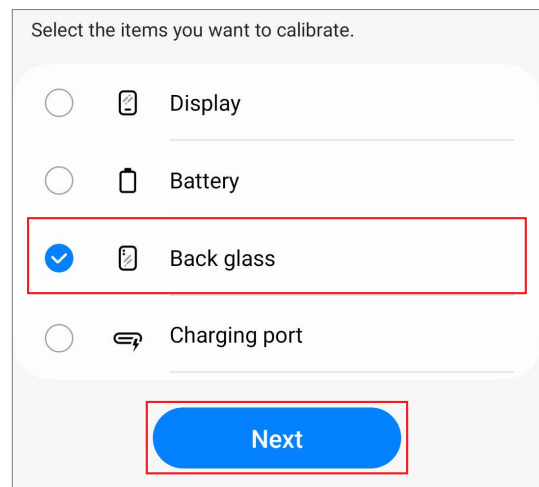
Range Sensor Calibration

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

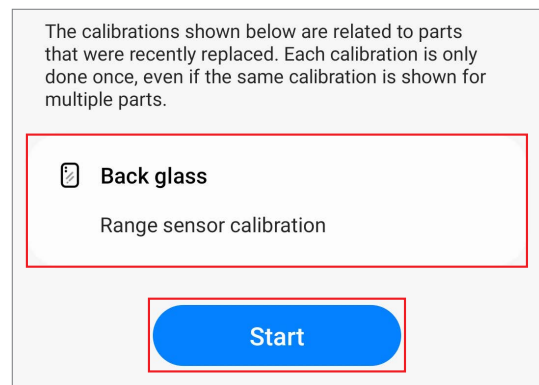
Range sensor calibration is available through the **Self Repair Assistant** app.

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

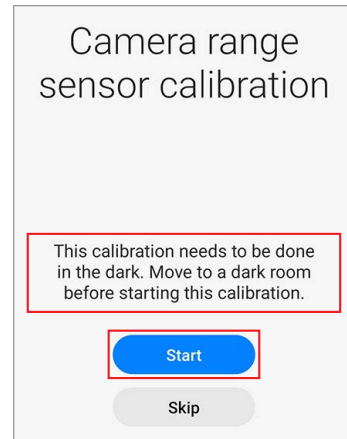
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



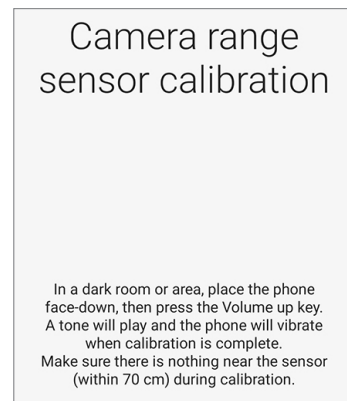
- 3 Check part and calibration and tap **Start**.



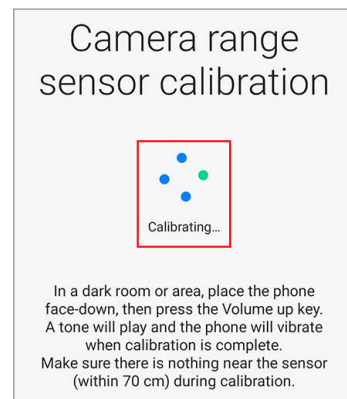
- 4 Read the on-screen instructions and tap **Start**.



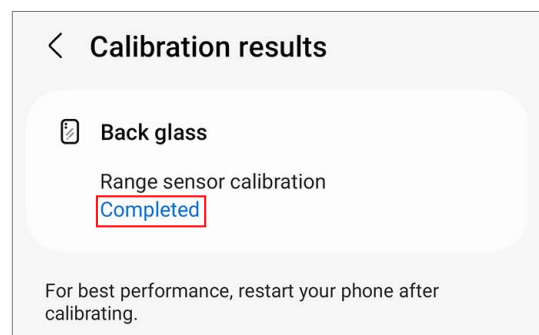
- 5 In a dark room or area, place the phone face-down, then press the Volume button.



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



- 7 Check the calibration result.



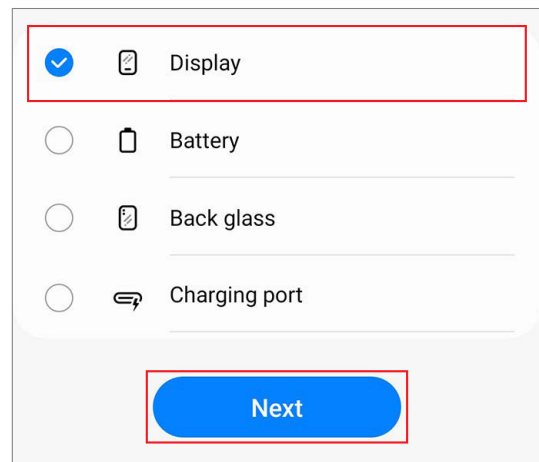
Touch Screen Panel Calibration

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

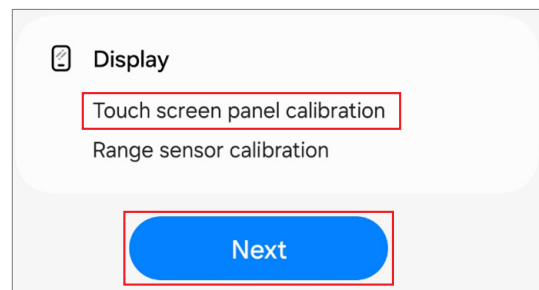
Touch screen panel calibration is available through the **Self Repair Assistant** app.

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

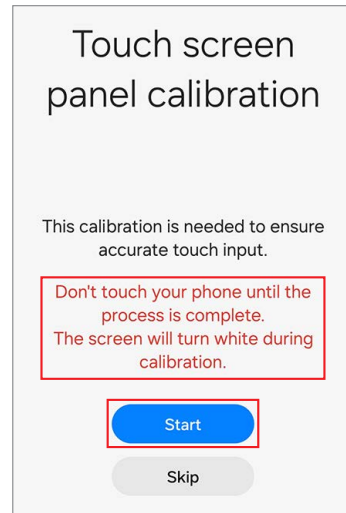
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



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



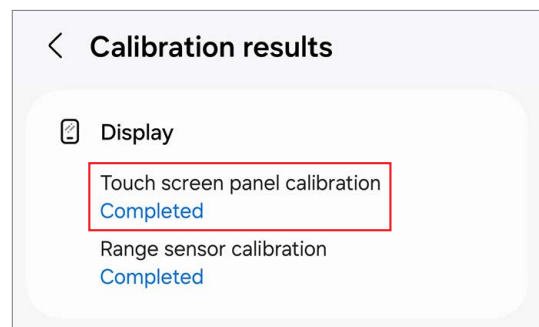
- 4 Read the on-screen instructions and tap **Start**.



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



- 6 Check the calibration result.

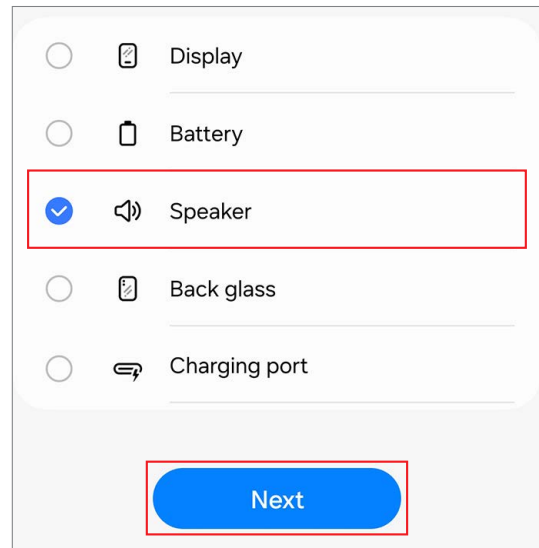


Speaker Calibration

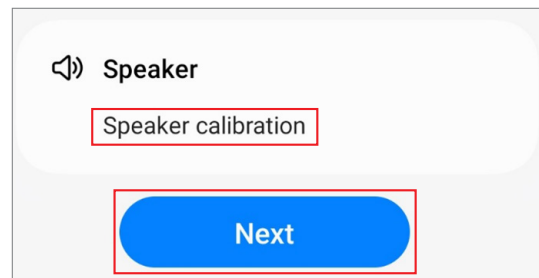
When replacing speakers, the speaker must be calibrated to guarantee optimised speaker performance for devices that have it.

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

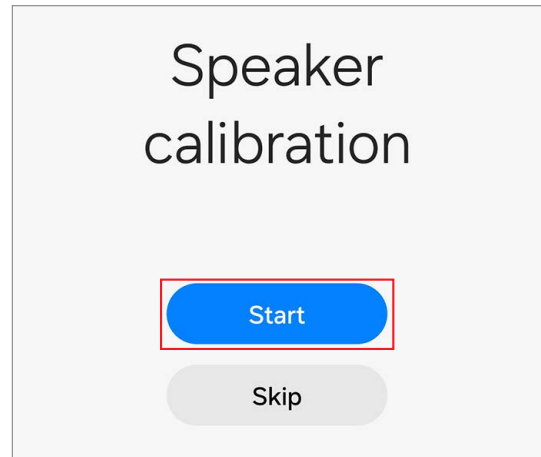
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



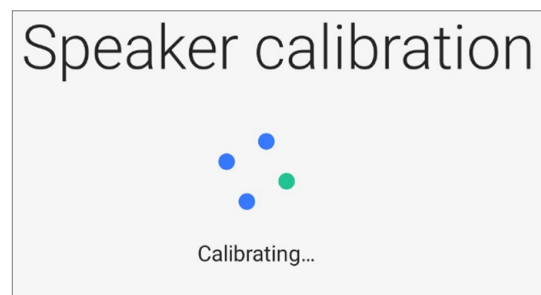
- 3 Check part and calibration and tap **Next**.



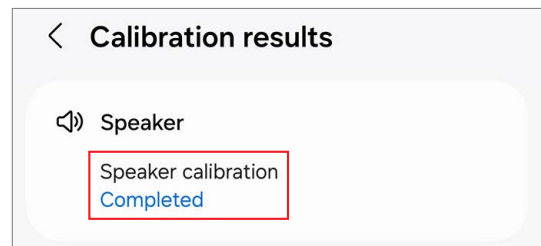
4 Tap **Start**.



5 The calibration will perform automatically.




6 Check the calibration result.



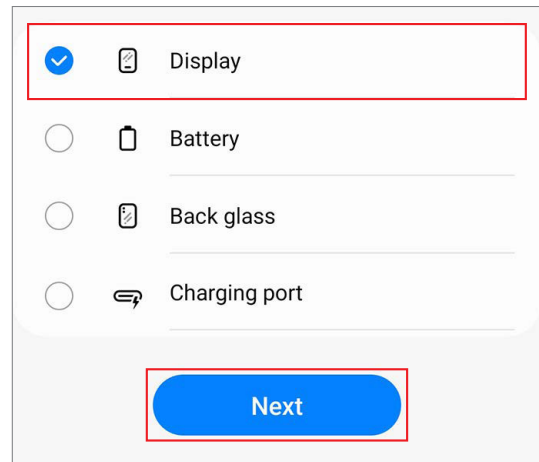
Under-display Camera Calibration (Fold Models Only)

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

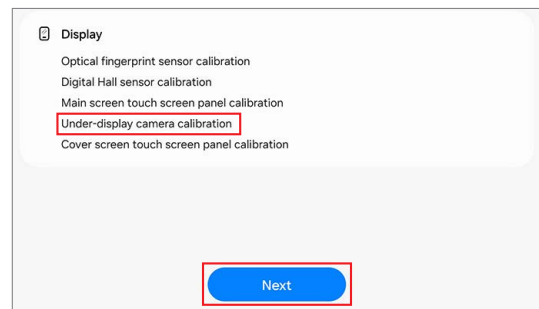
Under-display camera calibration is available through the **Self Repair Assistant** app.

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

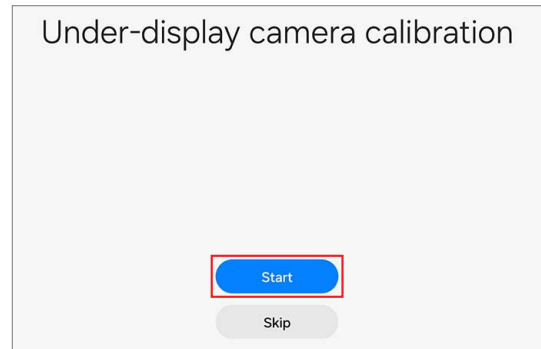
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



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

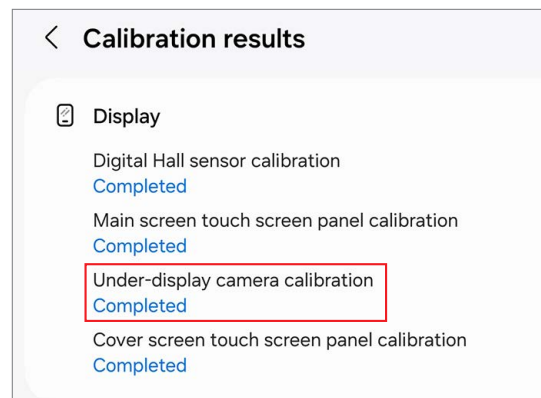


4 Tap **Start**.



5 The calibration will perform automatically.

6 Check the calibration result.



Digital Hall Sensor Calibration (Fold and Flip Models Only)

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

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



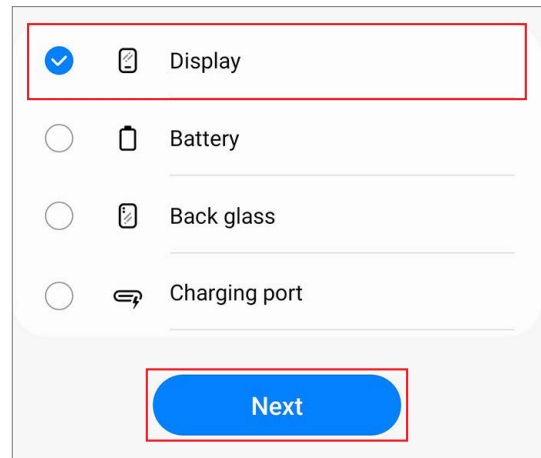
- This feature may not be available depending on the model. The availability of this feature can be automatically checked in the Self Repair Assistant app, so please follow the guidance of the Self Repair Assistant app.
- **For Fold models:** If the main screen does not turn on after being replaced (the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

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

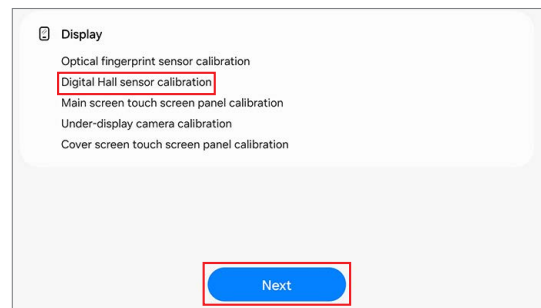
When calibration is complete, the main screen will turn on normally.

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

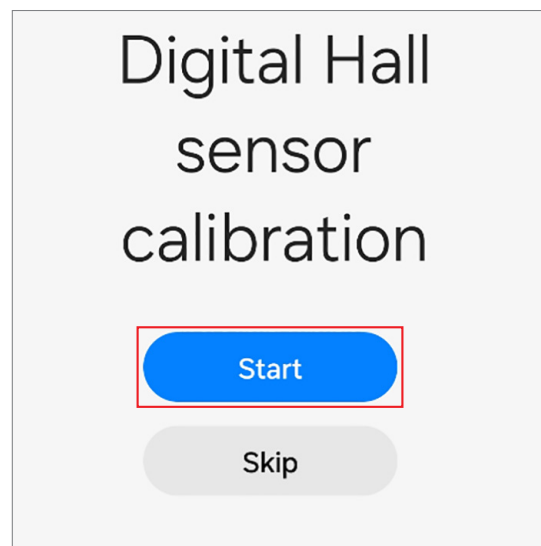
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



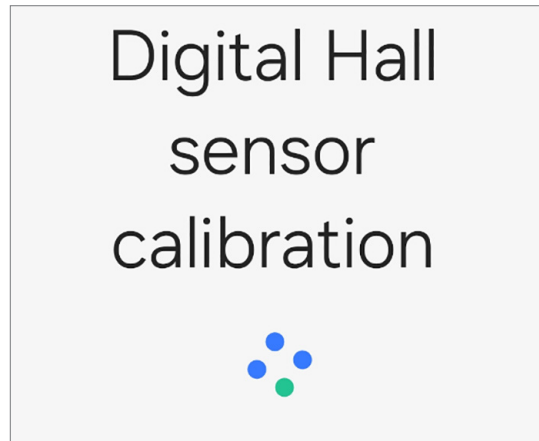
- 3 Check part and calibration and tap **Next**.



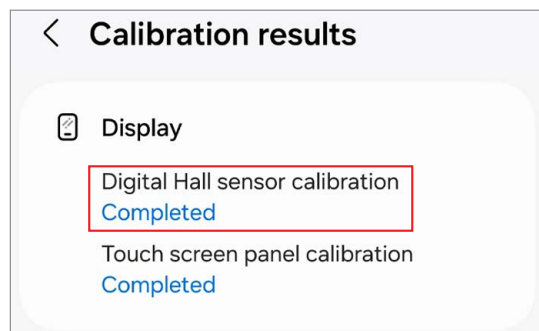
- 4 Tap **Start**.



5 The calibration will perform automatically.



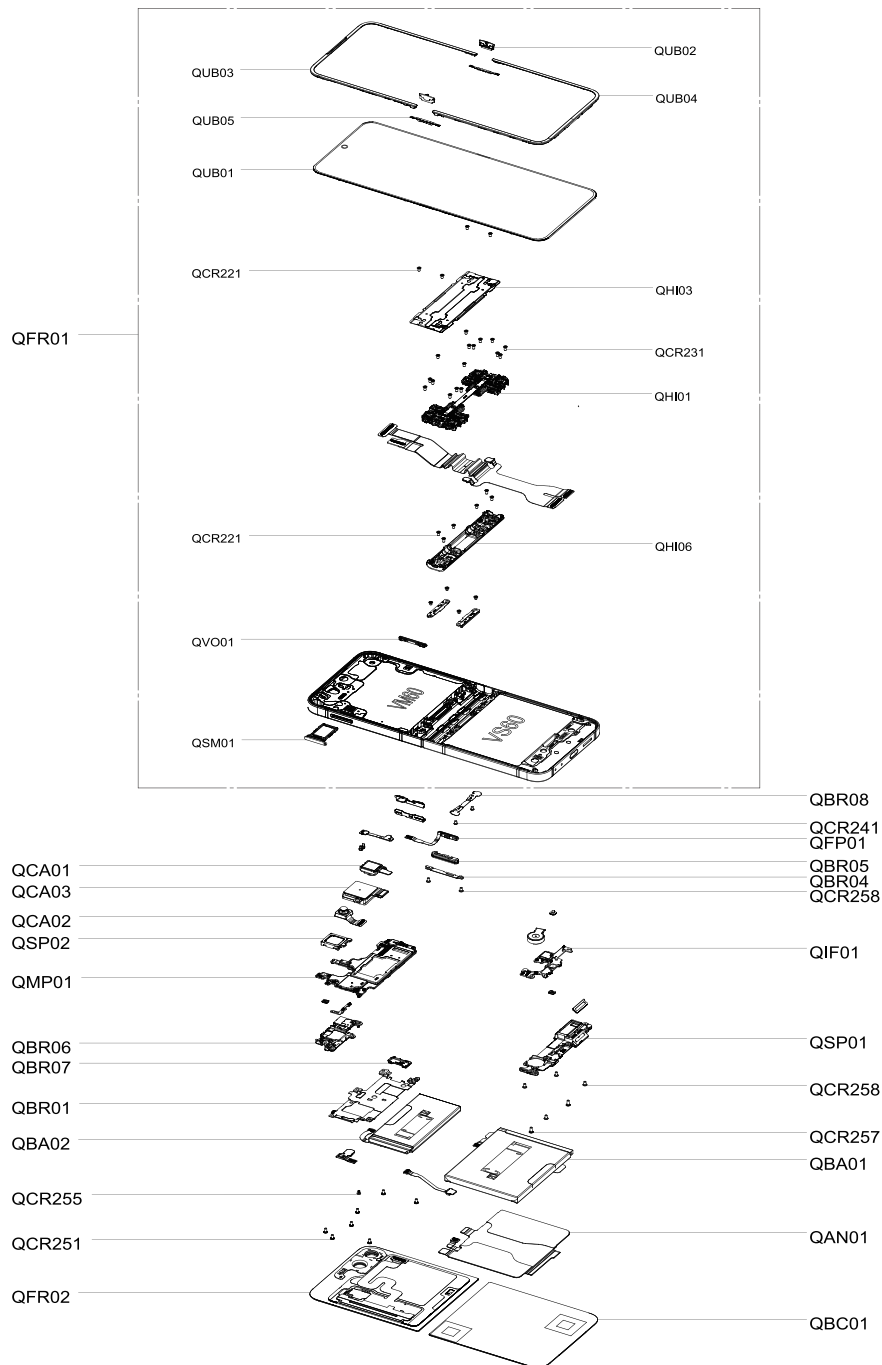
6 Check the calibration result.



Exploded View and Parts List

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

Exploded View



Parts List


Number	Name
QCR255	Screw 3487
QCR251	Screw 3506
QCA03	Rear Camera (Wide)
QCA01	Rear Camera (Ultra Wide)
QBR06	Rear Top
QCR258	Screw 3442
QCR257	Screw 3489
QCR241	Screw 3507
QBR08	Bottom Metal Plate
QAN01	Wireless Charging Module
QSP01	Bottom Speaker
QIF01	Charging Port
QCA02	Front Camera
QCR231	Screw 3508
QCR221	Screw 3509
QSP02	Top Speaker
QFP01	Side Button (Fingerprint Recognition Sensor)
QBR04	Side Button (Fingerprint Recognition Sensor) Metal Bracket
QBR05	Side Button (Fingerprint Recognition Sensor) Plastic Bracket
QV001	Volume Button
QBR01	Upper Metal Plate
QFR02	Cover Screen
QBR07	Cover Screen FPCB cable Connector Cover
QSM01	SIM Card Tray
QBC01	Back Cover




Number	Name
QMP01	Main Board (PBA)
QFR01	Screen Module
QUB01	Main Screen
QBA02	Main Battery
QBA01	Sub Battery
QHI01	Hinge
QHI03	Hinge Wing Plate
QHI06	Hinge Housing
QUB02	P-cap
QUB03	Top Deco
QUB04	Bottom Deco
QUB05	Dust Cover









Disassembly and Assembly




Tools for Disassembly and Assembly





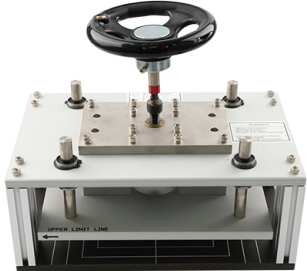

When repairing devices, you absolutely must wear protective equipment for your safety.






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


Tool	Image	Description
Safety Goggles		Prevents accidents during repair (protective equipment)
Safety Gloves (ESD safe, cut-resistant)		Prevents accidents during repair (protective equipment)
Safety Mask		Prevents accidents during repair (protective equipment)





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







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


Tool	Image	Description
Disposable Piston		<p data-bbox="917 277 1374 315">Tool for applying the adhesive</p> <p data-bbox="917 338 963 383">  </p> <ul data-bbox="1002 338 1465 719" style="list-style-type: none"> <li data-bbox="1002 338 1465 562">• This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service. <li data-bbox="1002 584 1465 719">• The actual appearance of the piston may be different from the image.
Disposable Needle		<p data-bbox="917 770 1374 808">Tool for applying the adhesive</p> <p data-bbox="917 831 963 875">  </p> <ul data-bbox="1002 831 1465 1211" style="list-style-type: none"> <li data-bbox="1002 831 1465 1055">• This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service. <li data-bbox="1002 1077 1465 1211">• The actual appearance of the needle may be different from the image.
Press Fixture		<p data-bbox="917 1263 1406 1352">Tool for pressing the back cover, cover screen, and main screen</p> <p data-bbox="917 1375 963 1420">  </p> <p data-bbox="1002 1375 1465 1554">This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>

Tool	Image	Description
Main Screen Attachment Tray	 <p>A black plastic tray with a central rectangular opening. The top edge is labeled 'TOP' in orange. The left edge is labeled 'MAIN SCREEN ATTACH' in orange. The bottom edge is labeled 'BTM' in orange. The right edge has a vertical label 'V1.0' in white.</p>	<p>Tool to attach the screen when assembling the main screen</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>
Main Screen Bottom Press Tray	 <p>A black plastic tray with a central rectangular opening and several smaller holes. A white label in the center reads 'B6 FRONT DECO. V4.0'.</p>	<p>Tool to place the device when assembling the main screen or the hinge</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>
Main Screen TB Press Tray	 <p>A black plastic tray with a central circular hole and a rectangular opening at the bottom. A white label at the top reads 'B6 MAIN TB PRESS TRAY V1.0'.</p>	<p>Tool to press the top and bottom of the screen when assembling the main screen</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>

Tool	Image	Description
Main Screen All Press Tray	 A black plastic tray with a central rectangular cutout and a smaller square cutout above it. It has small metal pins at the corners.	<p>Tool to press the full screen when assembling the main screen</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>
Deco Press Tray	 A black plastic tray with a large rectangular cutout in the center. It has small metal pins at the corners.	<p>Tool to press the deco when assembling the main screen</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>
Back Cover Bottom Press Tray	 A black plastic tray with a central rectangular cutout and a smaller square cutout above it. It has small metal pins at the corners.	<p>Tool to place the device when pressing the back cover or cover screen</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>

Tool	Image	Description
Back Cover Top Press Tray		<p>Tool to cover the back cover when pressing the back cover using the press fixture</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>
Cover Screen Top Press Tray		<p>Tool to cover the cover screen when pressing the cover screen using the press fixture</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>
Protector Film Bottom Tray & Film Fixture		<p>Tool to attach the protector film on the main screen</p> <p> This tool is available when the protector film is purchased.</p>
Protector Film Roller		<p>Tool to attach the protector film on the main screen</p> <p> This tool is available when the protector film is purchased.</p>

Tool	Image	Description
Protector Film Squeegee	 A rectangular, light-colored squeegee tool with a thin, dark strip along the top edge.	<p>Tool to attach the protector film on the main screen</p> <p> This tool is available when the protector film is purchased.</p>
Press Stamp	 A black, T-shaped tool with a long handle and a flat, rectangular base.	<p>Tool for pressing the cover screen or battery</p> <p> • Availability of the bundled press stamp may vary depending on the country and is currently available only in limited countries.</p> <p>• You can change the roller and stamp with one handle.</p>
Press Roller	 A black, T-shaped tool with a long handle and a base that includes a small roller.	<p>Tool for pressing the back cover or cover screen</p> <p> • Availability of the bundled press roller may vary depending on the country and is currently available only in limited countries.</p> <p>• You can change the roller and stamp with one handle.</p>

Tool	Image	Description
Main Screen Removal Fixture	 A silver and black mechanical fixture used for removing the main screen. It features a central opening for the screen, a control panel with a 'Start' button, a 'Stop' button, and a 'Setting Menu' display. The text 'NEW AOD V2' is visible on the front panel.	<p>Tool for removing the main screen</p> <ul style="list-style-type: none">• This fixture is only available to use when rented or purchased for self repair service. Availability may vary depending on the country and is currently available only in limited countries.• Fixture comes fully mechanically assembled and ready for use.

Composition of Rental Toolkit








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






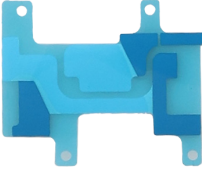


- ✍ • The rental toolkit contains a complete set of the tools for self repair service and its composition may vary depending on the device.
- Availability of rental service may vary depending on the country and are currently available only in limited countries.
- The actual rented tool kit packaging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













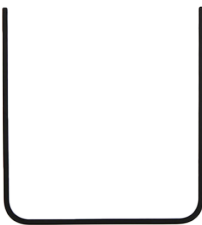





Fasteners (Adhesives and Materials) for Assembly







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









Item	Quantity	Image	Description
Back Cover Adhesive Tape	1		Double sided adhesive tape for attaching the back cover to the metal frame
Screw 3442	6		Screws for the bottom speaker (2 ea) Screws for the charging port (2 ea) Screws for the Side button (2 ea)
Screw 3489	2		Screws for the bottom speaker (Black)
Screw 3507	2		Screws for the bottom metal plate (Black)
Cover Screen Adhesive Tape	1		Double sided adhesive tape for attaching the cover screen to the metal frame
Screw 3506	7		Screws for the upper metal plate (6 ea) Screw for the rear top (1 ea)
Screw 3487	1		Screw for the camera

Item	Quantity	Image	Description
Front Camera Adhesive Tape	1		Double sided adhesive tape for attaching the front camera
Top FPCB Insulation Adhesive Tape	1		Adhesive tape to attach on the top FPCB cable connector
Side Button Bracket	1		Plastic bracket with adhesive tape to attach the Side button module
Side Button Water-resistant Adhesive tape	1		Water-resistant adhesive tape to attach on the Side button module
Side Button Air Vent Adhesive tape	1		Air vent adhesive tape to attach on the Side button module
Main Battery Sponge Tape	1		Sponge tape to attach to the main battery  This adhesive is only available when the battery itself is repaired.
Top Speaker Adhesive tape	1		Adhesive tape to attach the top speaker


Item	Quantity	Image	Description
Main Screen Top Adhesive Tape	1		<p>Double sided adhesive tape for attaching the top of the main screen to the metal frame</p> <p> This is only available when the main screen itself is assembled.</p>
Main Screen Bottom Adhesive Tape	1		<p>Double sided adhesive tape for attaching the bottom of the main screen to the metal frame</p> <p> This is only available when the main screen itself is assembled.</p>
Main Screen Wing Plate Adhesive Tape	1		<p>Double sided adhesive tape for attaching the centre of main screen to metal frame</p> <p> This is only available when the main screen itself is assembled.</p>
Main Screen Side Adhesive Tape	1		<p>Double sided adhesive tape for attaching the sides of the main screen to the metal frame</p> <p> This is only available when the main screen itself is assembled.</p>

Item	Quantity	Image	Description
Top Deco	1		<p>Deco assembled at the top edges of the main screen</p> <p> • This is only available when the main screen itself is assembled.</p> <p>• The deco with yellow handle is the top deco.</p>
Bottom Deco	1		<p>Deco assembled at the bottom edges of the main screen</p> <p> This is only available when the main screen itself is assembled.</p>
Dust Cover	2		<p>Part assembled at the edges of the main screen with deco</p> <p> This is only available when the main screen itself is assembled.</p>
P-cap	2		<p>Part assembled at the edges of the main screen with deco</p> <p> This is only available when the main screen itself is assembled</p>

Item	Quantity	Image	Description
Main Screen Connector Adhesive Tape	1		<p>Adhesive tape to attach the main screen connector to the metal frame</p> <p> This is only available when the main screen itself is assembled.</p>
CIPG Adhesive (DY-163)	1		<p>The adhesive for applying into the 2 bottom holes of the metal frame</p> <p> • This is only available when the main screen or hinge is assembled.</p> <p>• The actual appearance of the adhesive may be different from the image.</p>
Deco Adhesive (EH9377)	1		<p>The adhesive to attach the deco</p> <p> • This is only available when the main screen or hinge is assembled.</p> <p>• The actual appearance of the adhesive may be different from the image.</p>

Item	Quantity	Image	Description
Screw 3509	10		<p>Screws for the wing plate (4 ea)</p> <p>Screws for the hinge housing (2 ea)</p> <p>Screws for the hinge (4 ea)</p> <p> This is only available when the hinge itself is assembled.</p>
Screw 3508	16		<p>Screws for the hinge housing (4 ea)</p> <p>Screws for the hinge (12 ea)</p> <p> This is only available when the hinge itself is assembled.</p>
Wing Plate Adhesive Tape	1		<p>Adhesive tape on the wing plates</p> <p> This tape is only available when the hinge itself is assembled.</p>
Hinge Adhesive Tape	1		<p>Adhesive tape on the hinge</p> <p> This is only available when the hinge itself is assembled.</p>

Disassembly and Reassembly for replacement

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



Before disassembling:

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

Before reassembling:

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

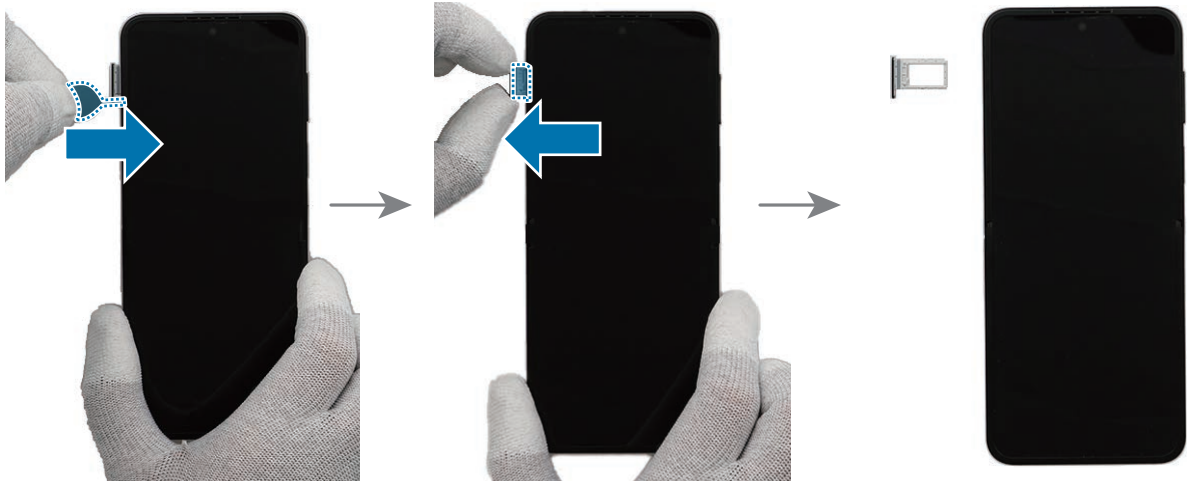
For all cases of broken glass:

- 1 Wear safety goggles and cut-resistant gloves.
 - 2 Remove the release film of the acrylic protective cover.
 - 3 To prevent injuries and scattering caused by broken glass, attach an acrylic protective cover.
-  If your device's glass breaks, be careful not to injure your hands or other body parts on debris.
- 4 Press the acrylic protective cover with strong force so that it is strongly attached to the glass.
-  Wait more than 5 minutes until the bond between the acrylic protective cover and the glass is strengthened.
- 5 Follow the disassembly steps in this guide.

SIM Card Tray

Disassembly

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



Reassembly

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

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



Back Cover

Disassembly


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

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


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




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

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

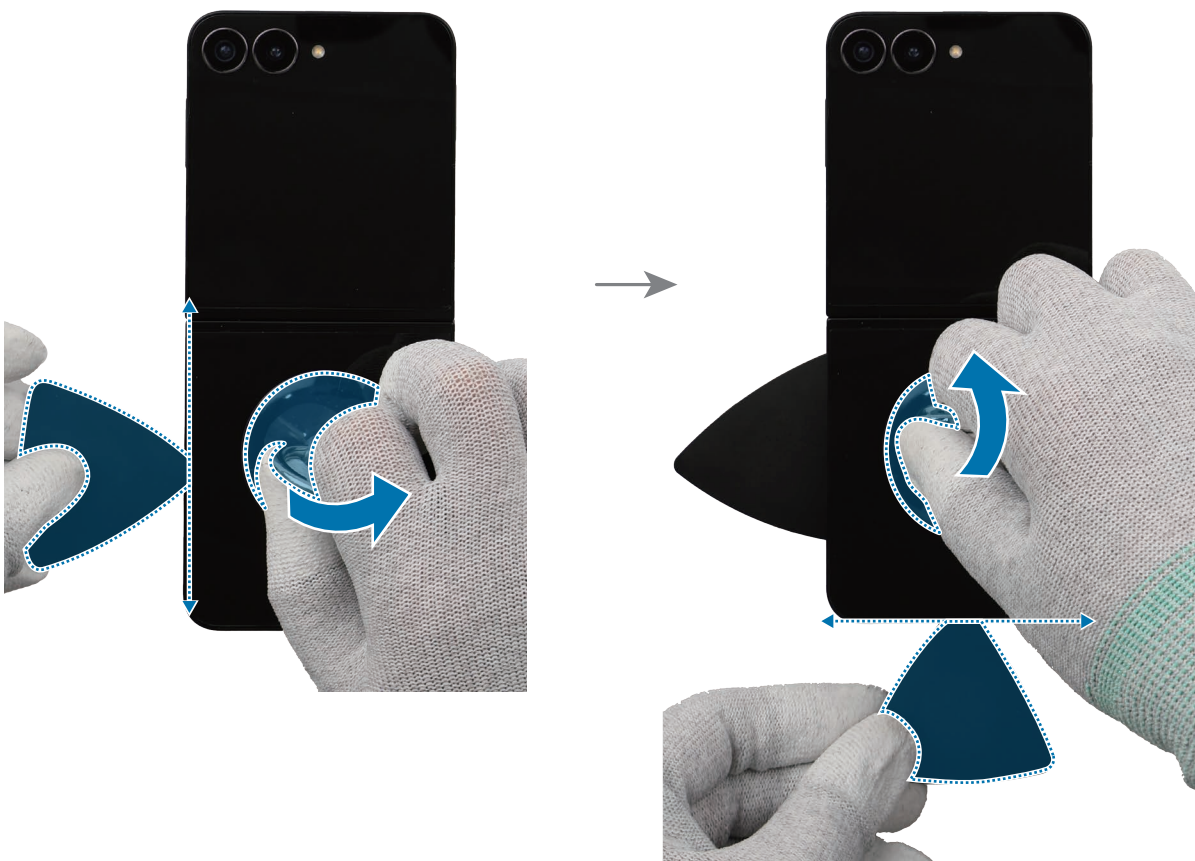


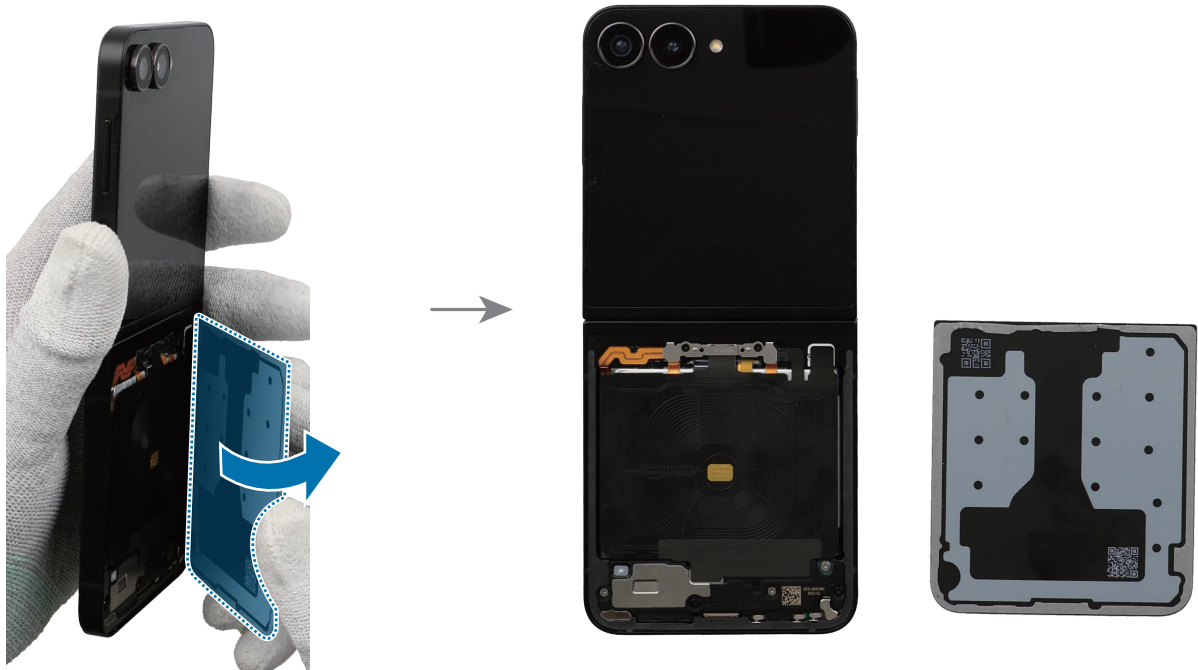
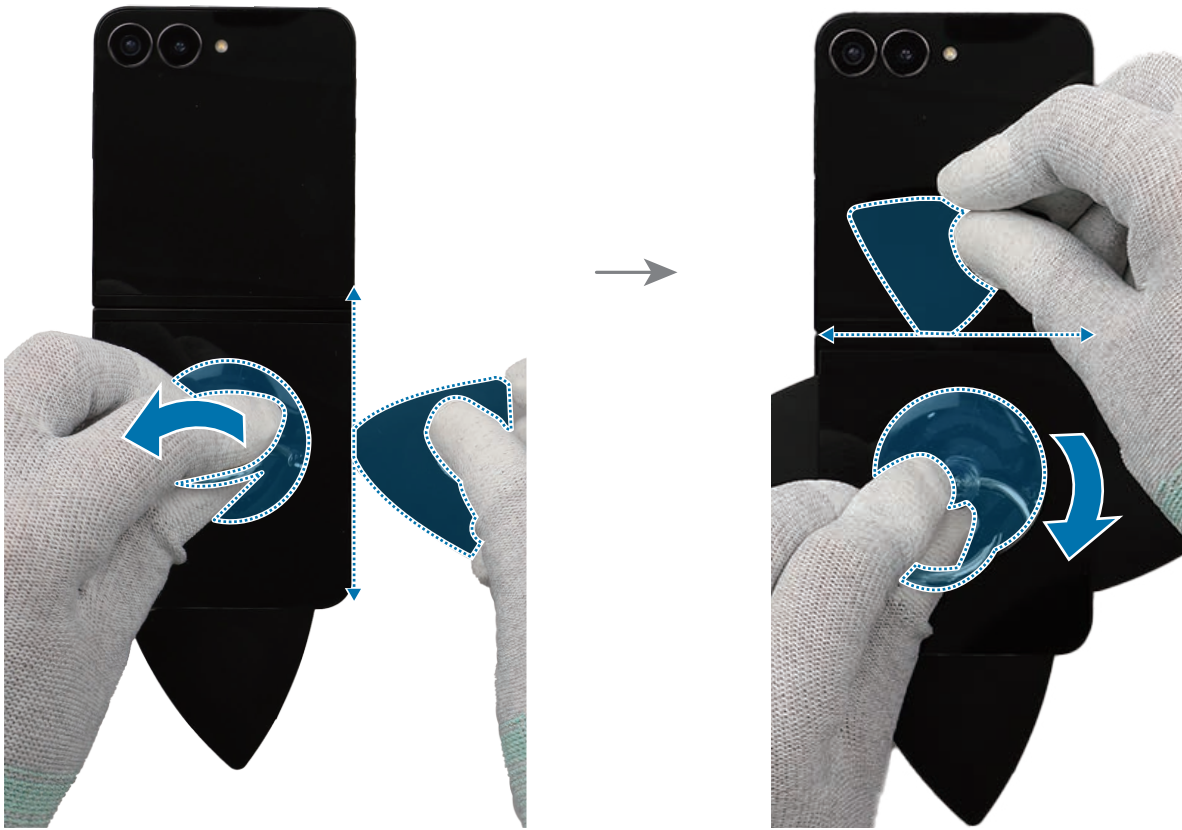
-  As the back cover can be damaged by excessive force, be careful not to damage the back cover.
- Be careful that the suction cup does not adhere to the area where the tape or sticker is attached.

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



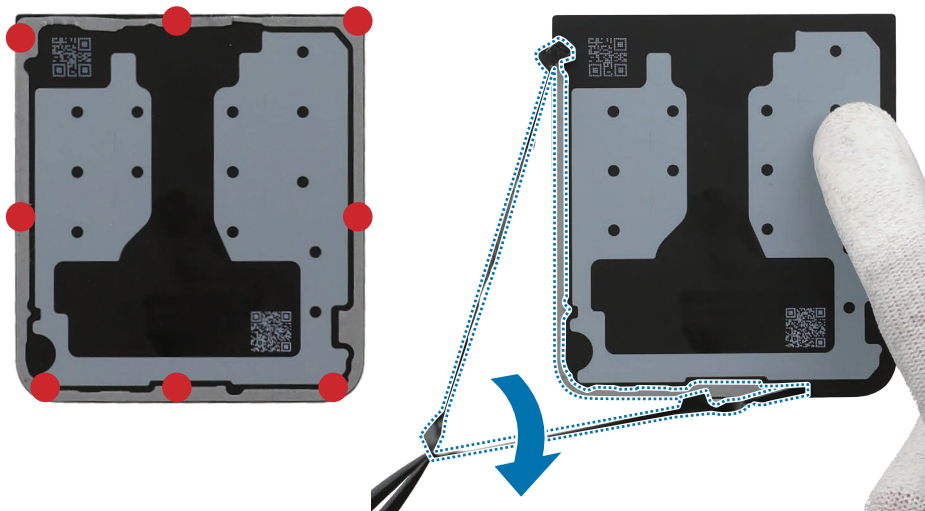
- 3 While pulling up the suction cup with strong, steady force to create the gap between the back cover and the device frame, place the opening pick in the gap between the back cover and the device frame and slide the opening pick back and forth along the edge to slice through the adhesive. Repeat this on all sides and slice through the adhesive. Lift up the back cover slowly and remove it gently from the device.
- ⚠ As the back cover can be damaged by excessive force, be careful not to damage the back cover.
 - As the internal circuitry can be damaged, do not insert the opening pick more than 3 mm.
 - ✍ Make sure to leave the opening pick inserted in the edges to prevent the adhesive from resealing. It is recommended that a larger area of the opening pick be inserted.
 - If you have trouble creating a gap, heat the microwaveable heating bag additionally, and apply it on the back cover to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.



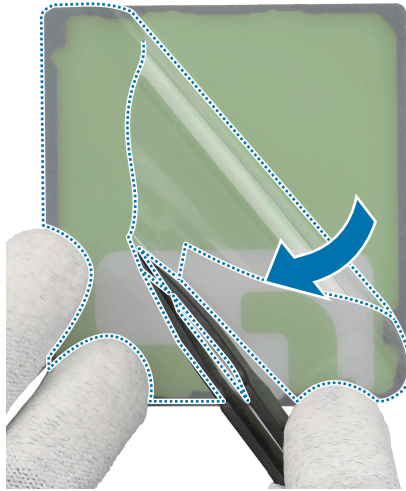


Reassembly

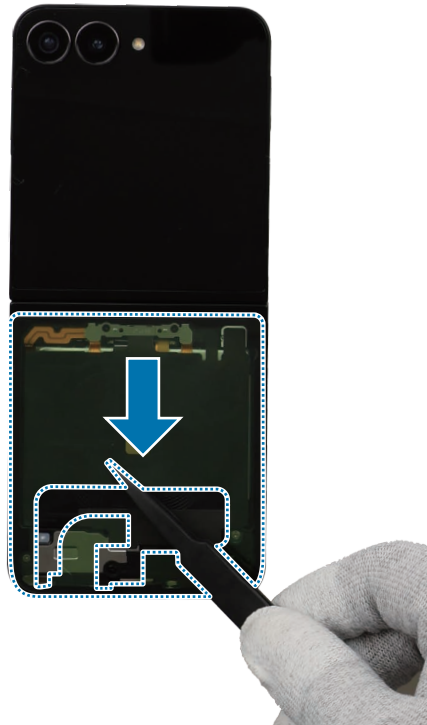
- ⚠ Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.
 - ⚠ Before attaching the back cover, make absolutely sure that there are no screws, miscellaneous parts, or other foreign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



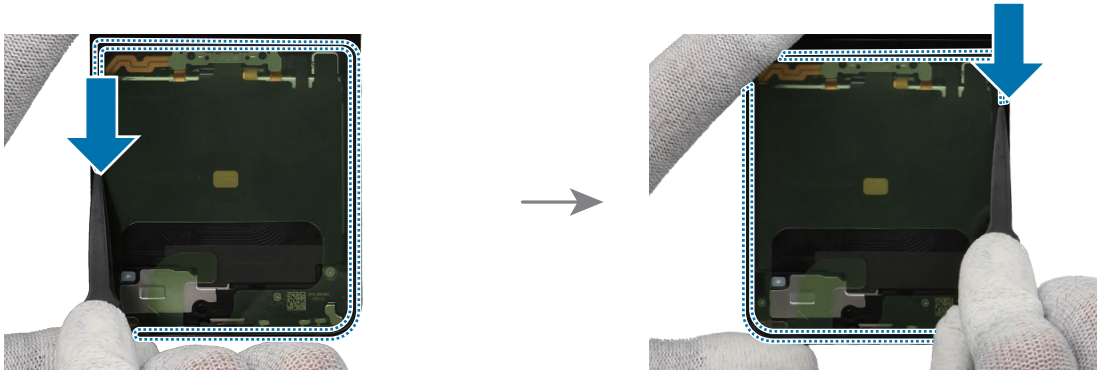
- 2 Remove the transparent film of the new back cover adhesive tape.



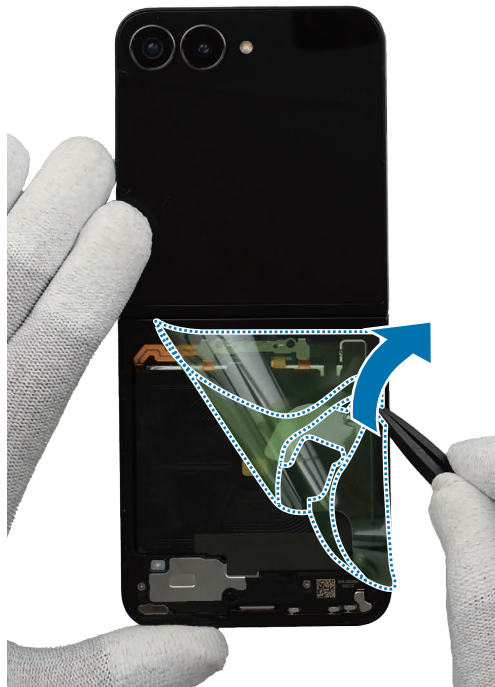
- 3 Align the adhesive tape precisely on the metal frame and attach it.




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



- 5 Using the tweezers or your fingers, remove the release film of the adhesive tape.



6 Attach the back cover and press down on the edges of the back cover. Check the gap between the back cover and metal frame.

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



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



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



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

Cover Screen

Disassembly


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

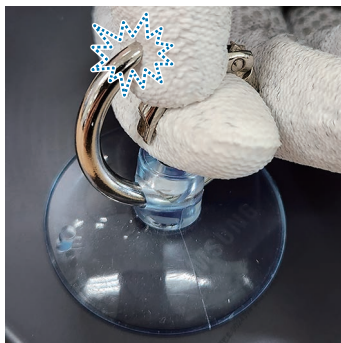
1 Heat the microwaveable heating bag and apply it on the cover screen for 3 minutes to soften the adhesive.


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




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

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



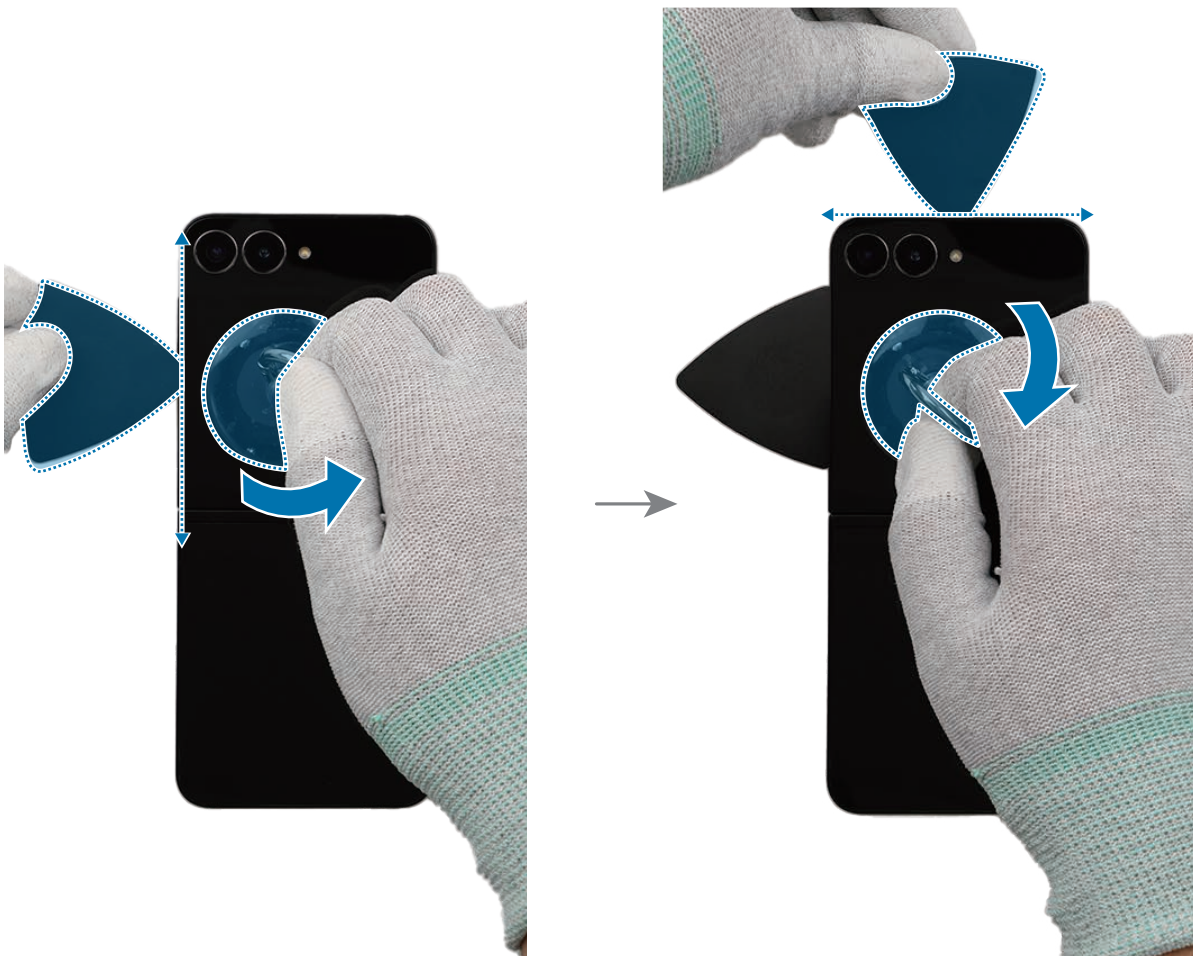
-  • As the cover screen can be damaged by excessive force, be careful not to damage the cover screen.
- Be careful that the suction cup does not adhere to the area where the tape or sticker is attached.

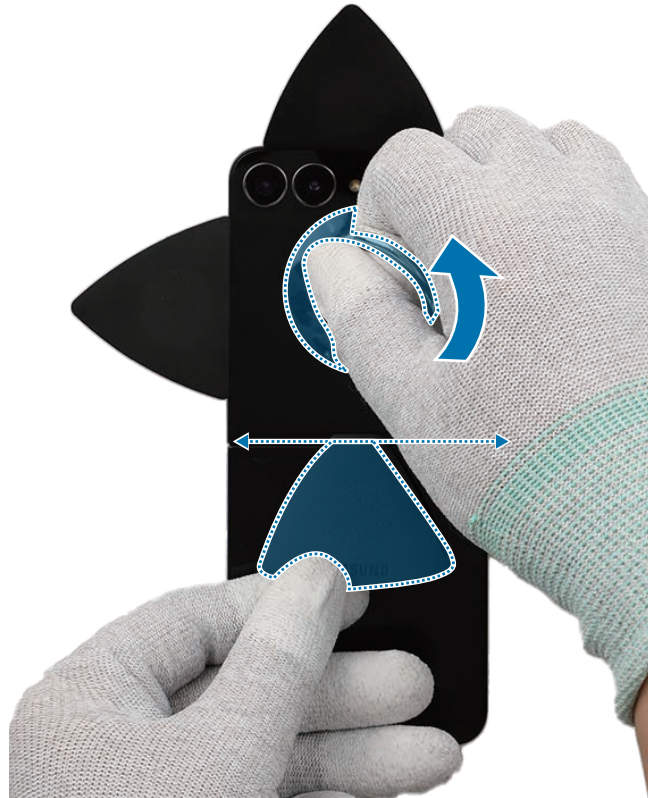
 If you have trouble creating a gap, heat the microwaveable heating bag additionally, and apply it on the cover screen to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.



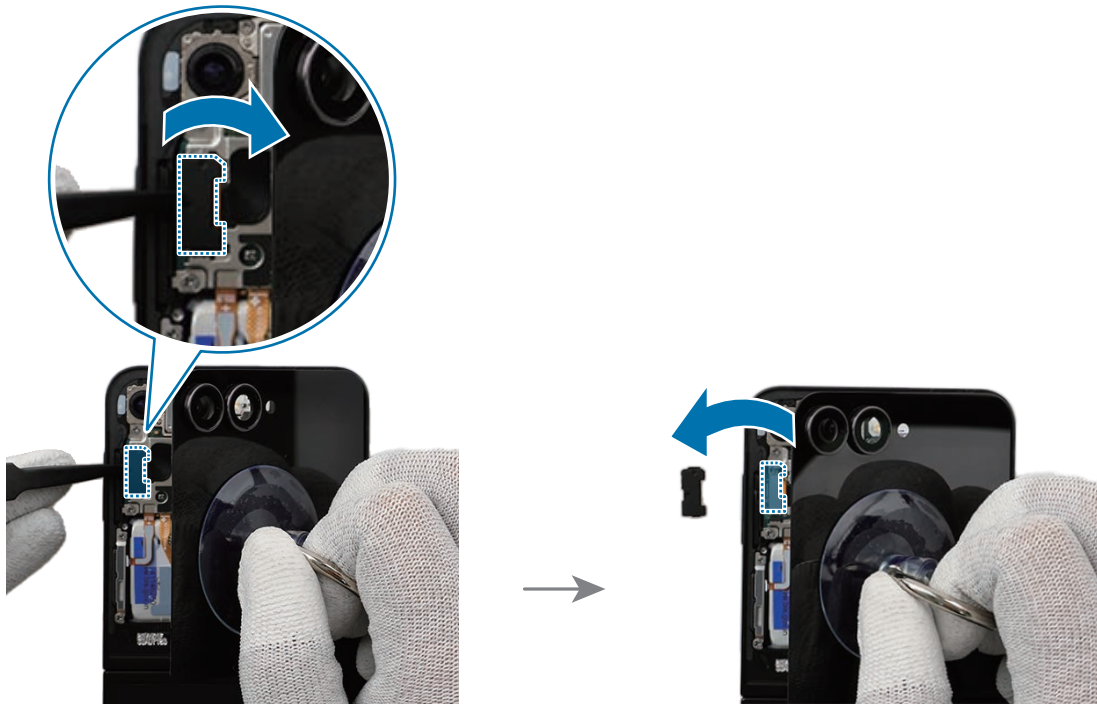
3 While pulling up the suction cup with strong, steady force to create the gap between the cover screen and the metal frame, place the opening pick in the gap between the cover screen and the metal frame and slide the opening pick back and forth along the edge to slice through the adhesive. Repeat this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

- ❗ • As the cover screen can be damaged by excessive force, be careful not to damage the cover screen.
- As the internal circuitry can be damaged, do not insert the opening pick more than 1-2 mm.
- Be careful not to damage the camera.
- ✍ • Make sure to leave the opening pick inserted in the edges to prevent the adhesive from resealing. It is recommended that a larger area of the opening pick be inserted.
- If you have trouble creating a gap, heat the microwaveable heating bag additionally, and apply it on the cover screen to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.



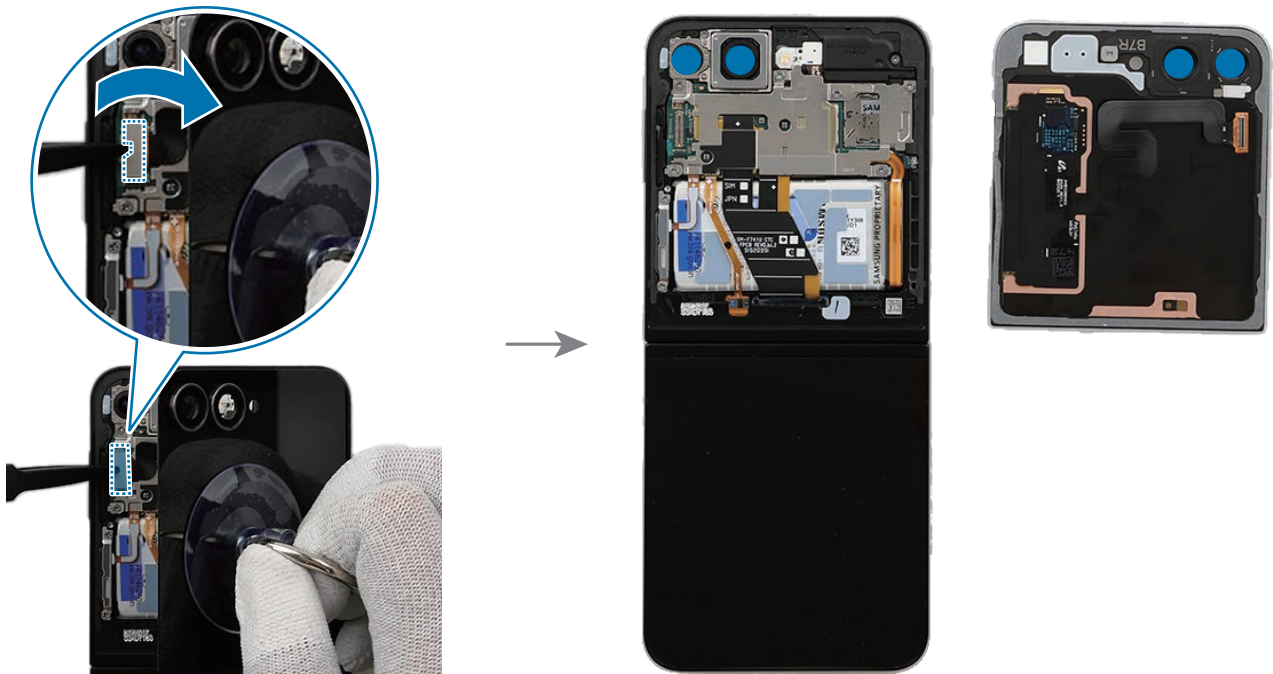


- 4 Using the tweezers, disassemble the cover screen's FPCB cable connector cover first before removing the cover screen.
- ⚠ • When removing the cover screen's FPCB cable connector cover, be careful not to damage the FPCB cable.
 - The FPCB cable connector cover should be used again when reassembling, so be careful not to lose it.



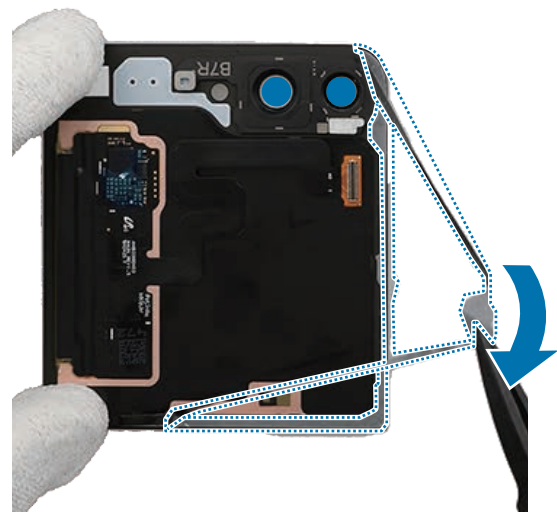
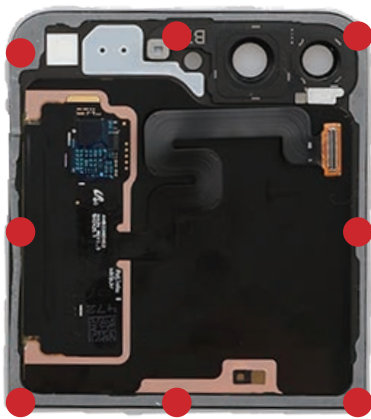
5 Disassemble the FPCB cable connector of the cover screen with the tweezers and separate the cover screen completely.

⚠ Be careful not to put your fingertips or any foreign objects on the rear cameras and cover screen lens (●).



Reassembly

- ⚠ Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.
 - ⚠ Before attaching the cover screen, make absolutely sure that there are no screws, miscellaneous parts, or other foreign objects on the inside of the device (among the battery, PBA, etc.).
- 1 Remove all adhesive tapes attached on the separated cover screen (●) if you use the existing cover screen as it is.
- ⚠ • Be careful not to put your fingertips or any foreign objects on the cover screen lens (●).
 - Make sure to remove any residual tapes (●) attached to the insides of the cover screen before reassembling the device.
 - Be careful not to damage the near components.
- 📄 Apply additional heat with a microwaveable heating bag if you are having trouble separating the adhesive.



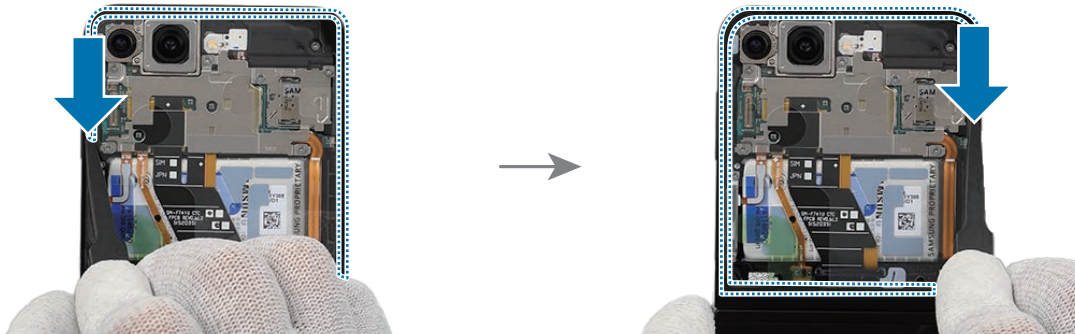
- 2 Remove the transparent film of the new cover screen adhesive tape.



- 3 Align the adhesive tape precisely on the metal frame and attach it.



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

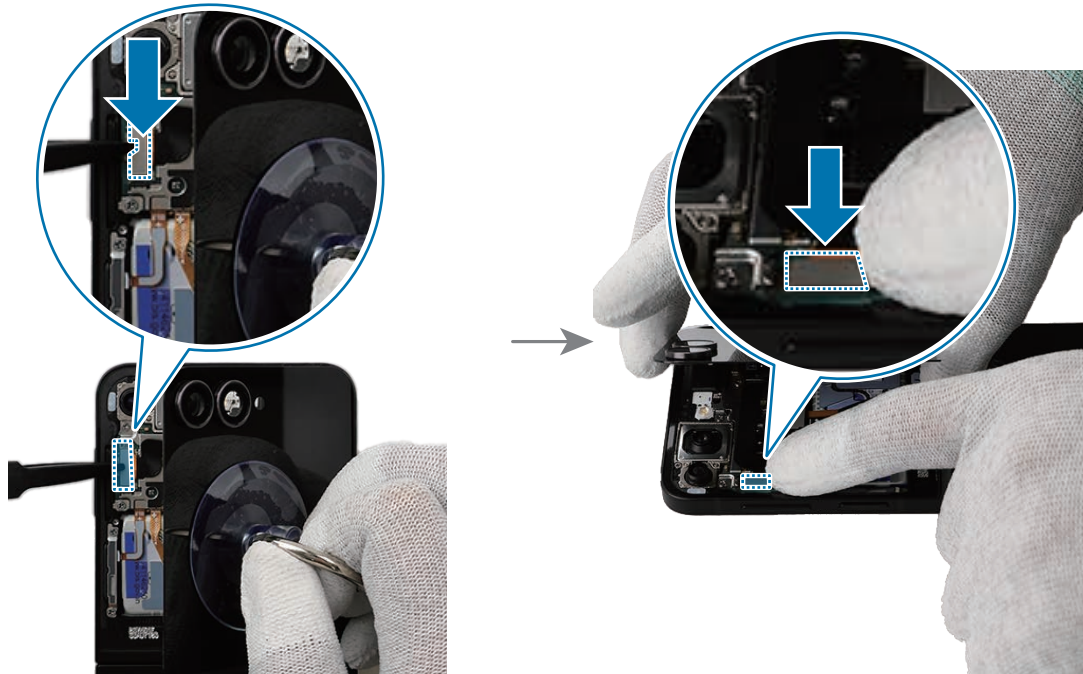


- 5 Using the tweezers or your fingers, remove all release films of the adhesive tape.

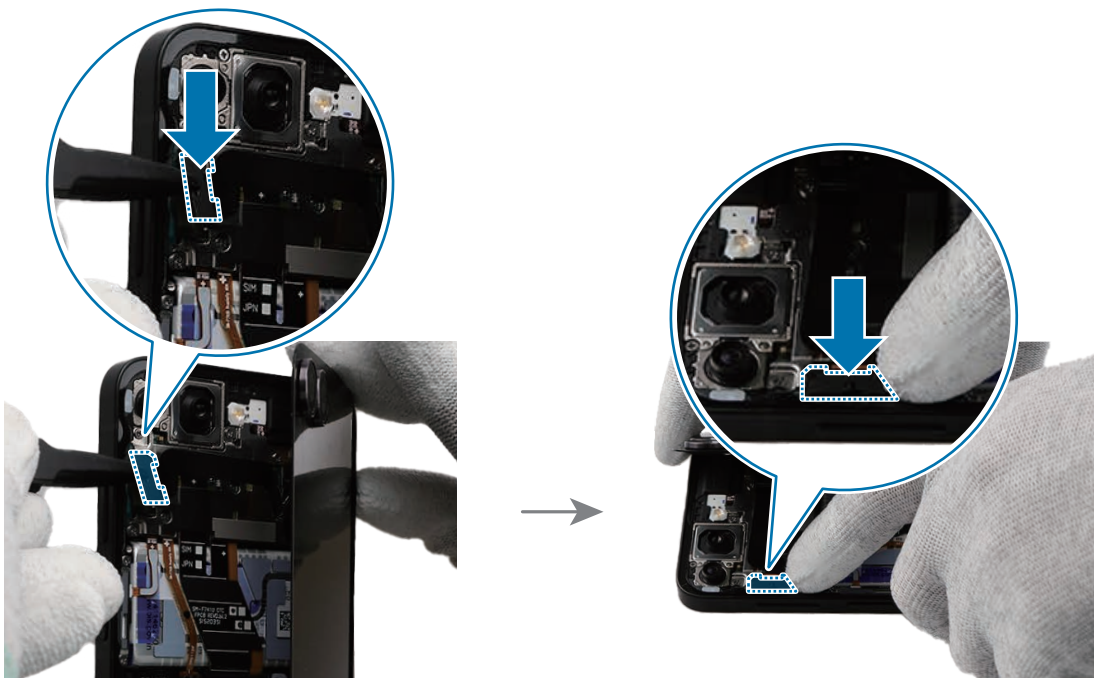


6 Using the tweezers or your fingers, assemble the cover screen's FPCB cable connector first and press down the connector softly.


⚠ Be careful not to damage the FPCB cable.

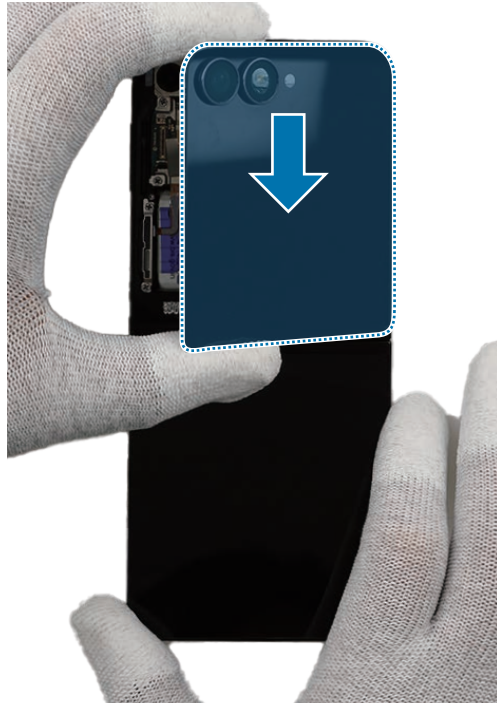


7 Assemble the cover screen's FPCB cable connector cover with the tweezers or your fingers and press down the cover softly.



8 Attach the cover screen and press down on the edges of the cover screen. Check the gap between the cover screen and the metal frame.

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



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



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



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


Charging Port and Microphone


 The microphone is built into the charging port module.

Disassembly

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

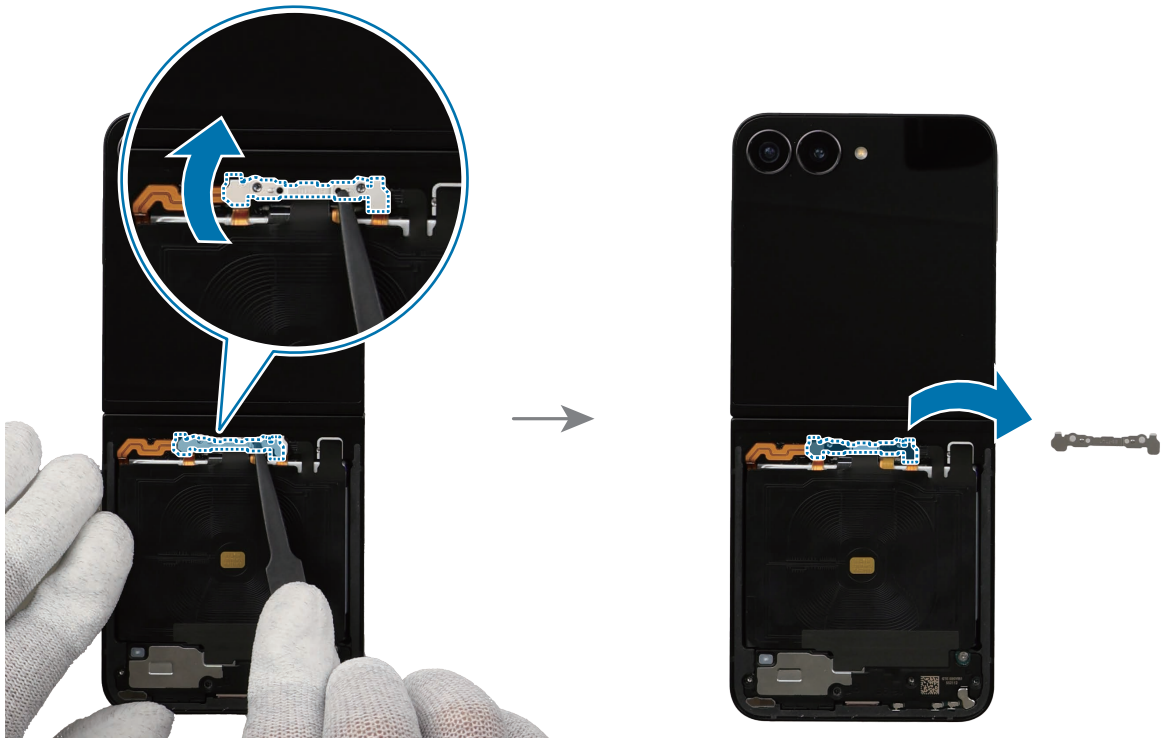
1 Check the 2 screws (Black) on the bottom metal plate and the 4 screws (Silver 2 ea, Black 2 ea) on the bottom speaker and remove them using a cross-head screwdriver.

 Be careful not to damage the near components.

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

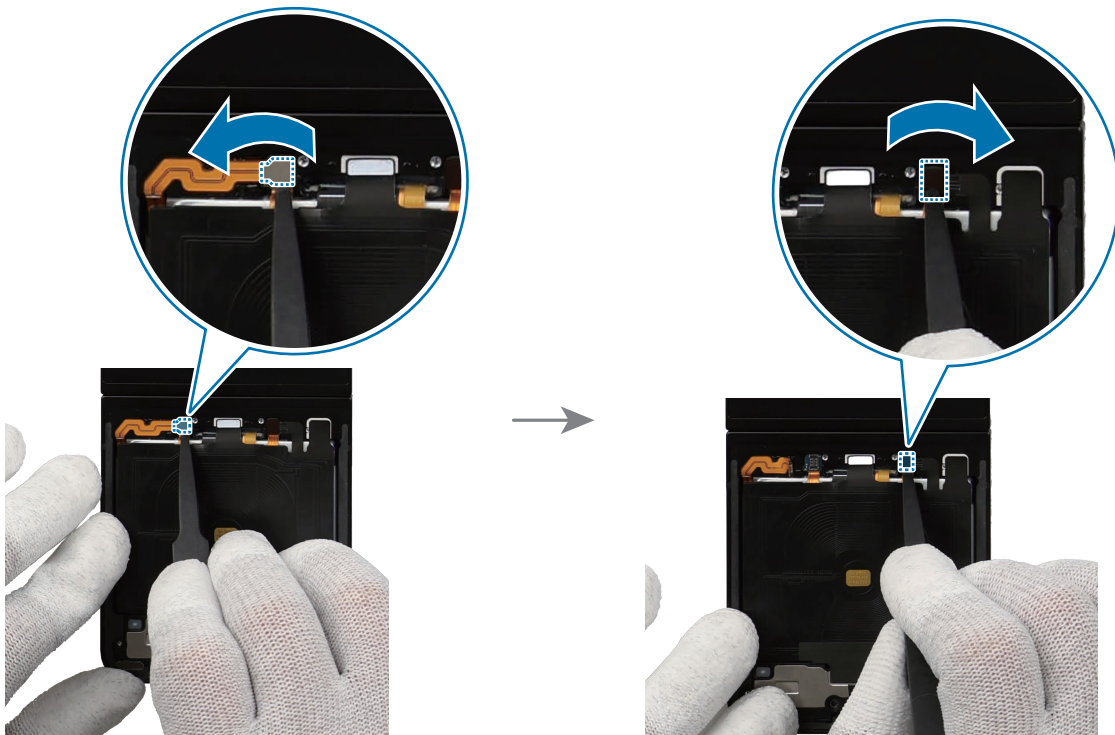


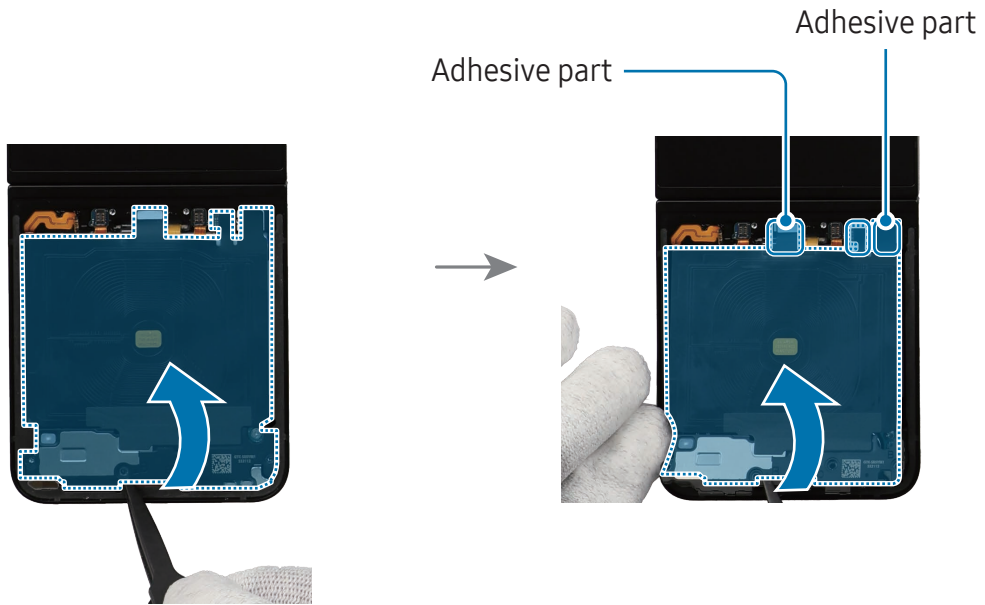
- 2 Using the tweezers, lift up the bottom metal plate carefully and separate it from the device.



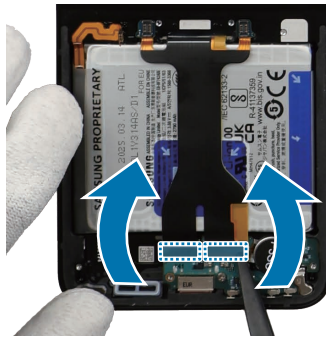
3 Using the tweezers, disconnect the sub battery connector first and separate the NFC antenna connector. Place the tweezers on the bottom centre of the speaker module and pull the speaker module out from the device. Lift up the speaker module carefully and remove the wireless charging module and speaker module simultaneously from the device.

- ⚠ • Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.
- ⚠ • Be careful not to damage the NFC antenna connector and the FPCB cables.
- Be careful not to tear any connected components near the wireless charging module.
- Be careful not to damage or tear the adhesive parts of the wireless charging module.
- Ensure that the wireless charging module is unfolded to prevent damaging the FPCB.
- Be careful not to damage the near components.





- Using the tweezers, disconnect the 2 FPCB cable connectors from the charging port.




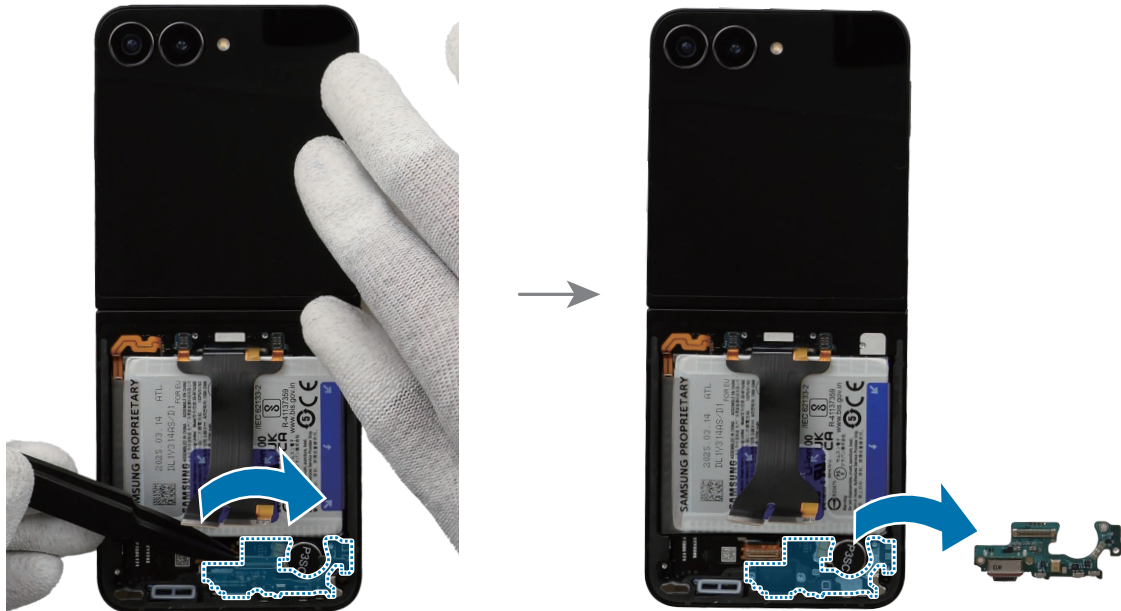
- Check the screws at the 2 different points on the charging port and remove them using a cross-head screwdriver.

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



- 6 After lifting the FPCB cables up carefully, lift up on the separator groove to the upper left of the charging port module using the tweezers. Then remove it.

 Be careful not to damage the battery.



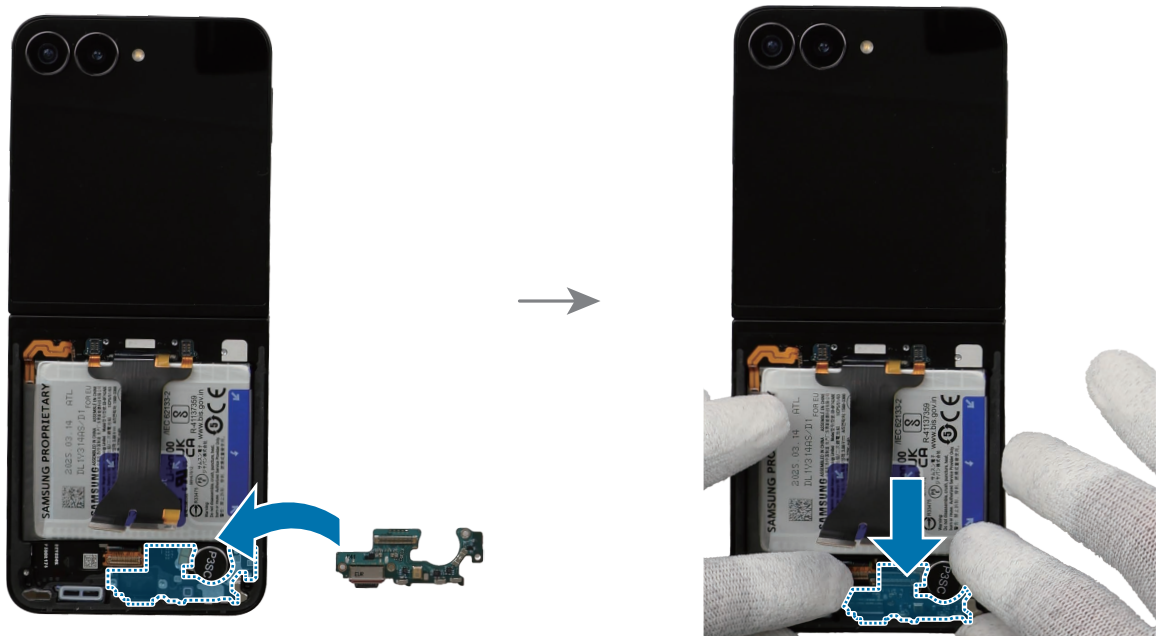
Reassembly

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

1 Insert the charging port module to the bottom metal frame of the device, and press down on it in its position with your fingers.

⚠ Be careful not to damage the battery.

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



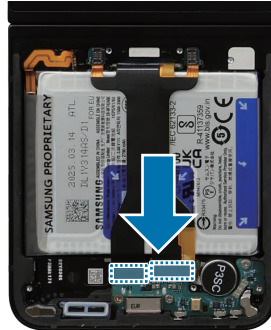
2 Check the screw 3442 (2 ea) at the 2 different points on the charging port and fasten them using a cross-head screwdriver.

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




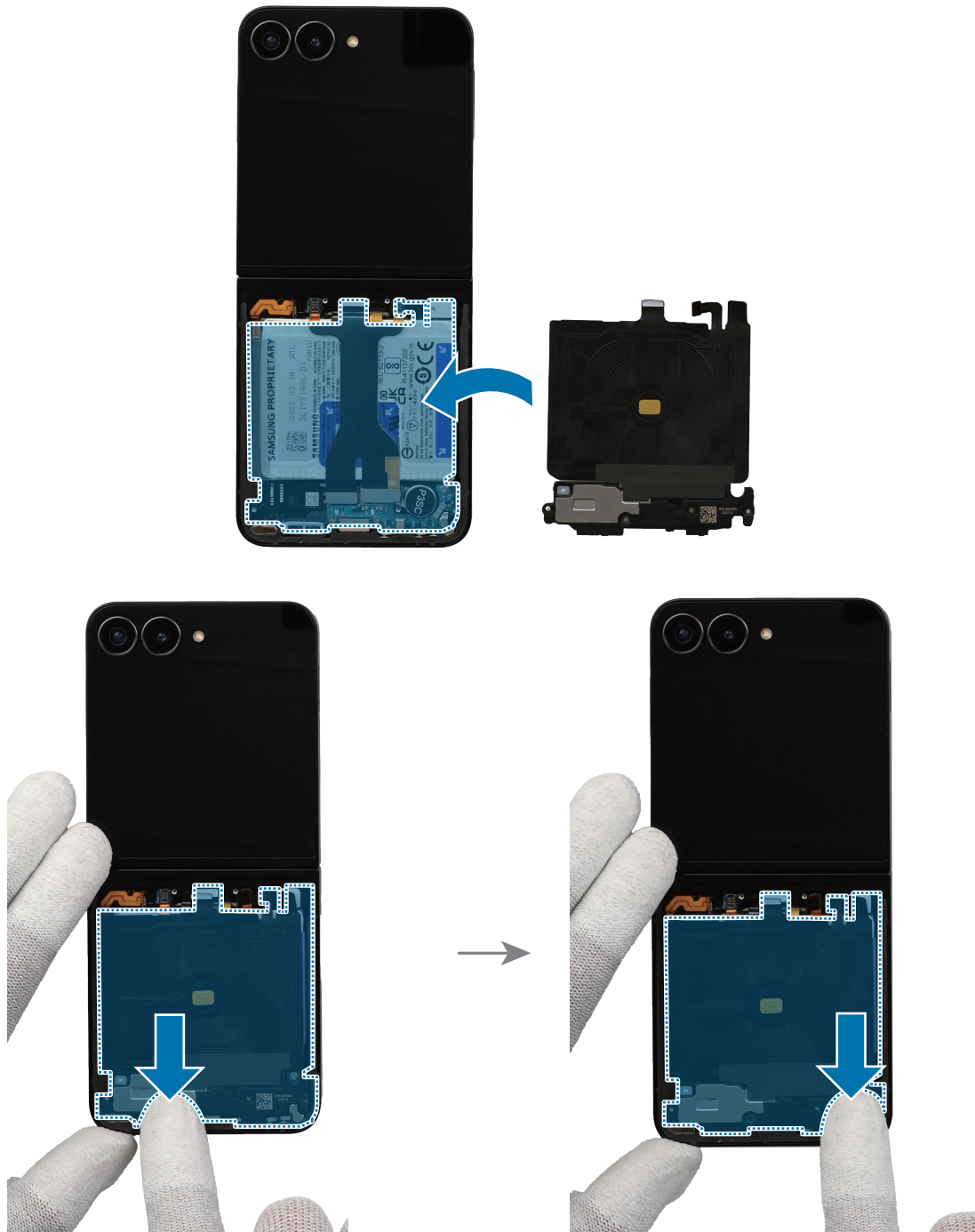
3 Using your fingers, connect the 2 flex cable connectors to the charging port.

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



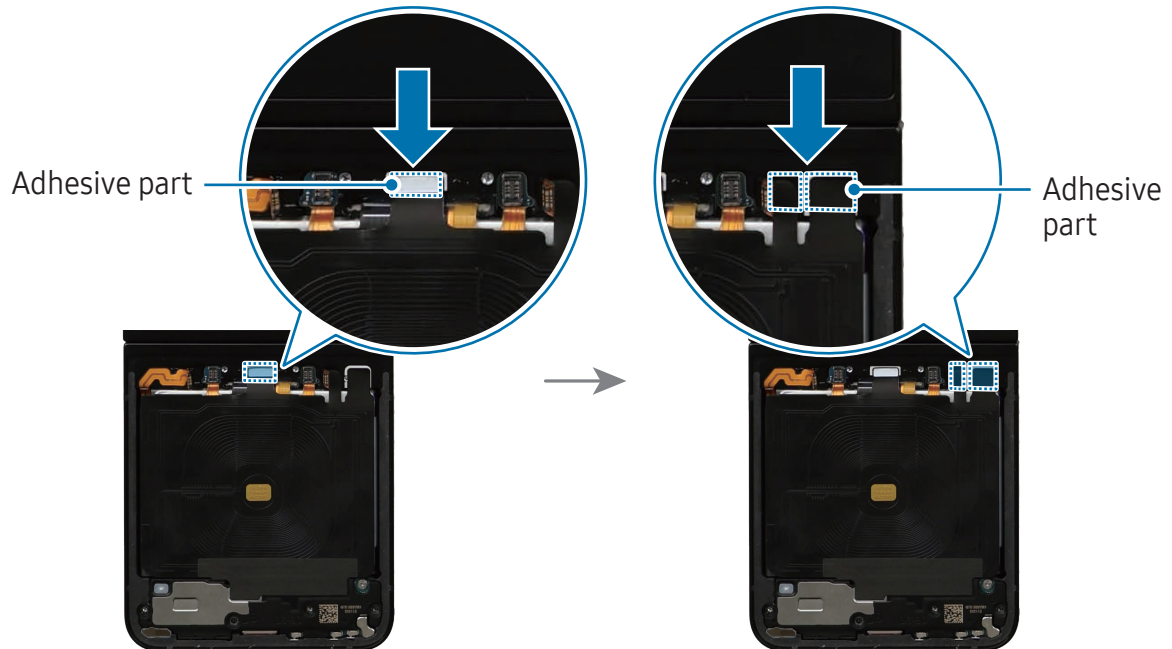
4 Assemble the speaker module and press down on it in its position with your fingers until you hear a clocking sound.

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



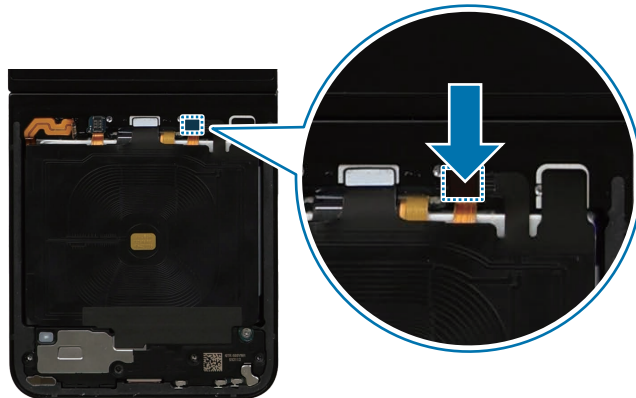
5 Using your fingers, attach the adhesive parts of the wireless charging module.

⚠ Be careful not to damage or tear the adhesive parts of the wireless charging module.



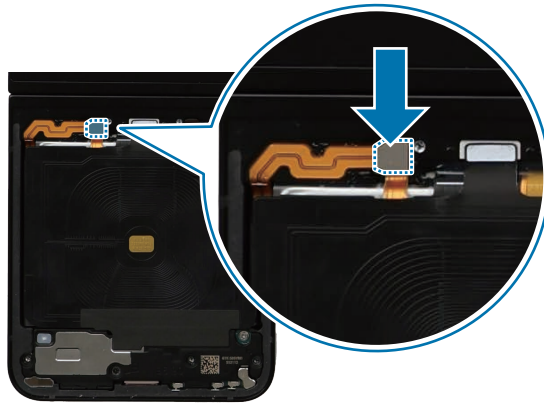
6 Connect the NFC antenna connector.

⚠ Be careful not to damage the connector.



7 Connect the sub battery connector.

⚠ Be careful not to damage the battery connector.



8 Assemble the bottom metal plate.

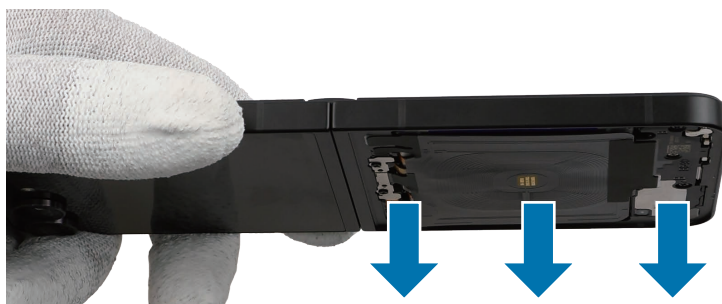


9 Check the screw 3507 (Black 2 ea) at the 2 different points on the bottom metal plate and fasten them using a cross-head screwdriver. Then, check the screw 3442 (Silver 2 ea) and the screw 3489 (Black 2 ea) at the 4 different points on the bottom speaker module and fasten them using a cross-head screwdriver.

- ⚠ Be careful not to damage the near components.
- Be careful not to fasten the screws to the wrong position.
- Be careful not to mix the screws.



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




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

Front Camera

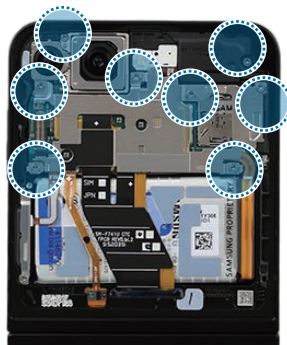
Disassembly

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


1 Check the total of 8 screws, including the 6 screws on the upper metal plate, the screw on the camera frame, and the screw on the rear top, and then remove them using a cross-head screwdriver.

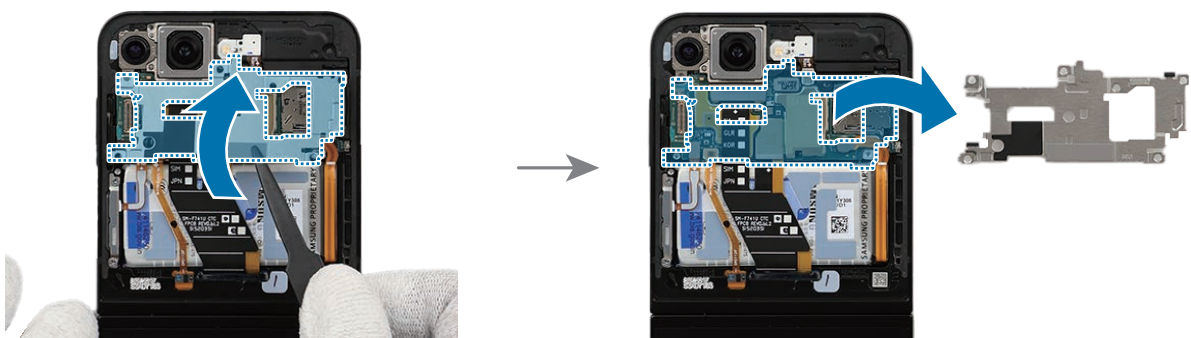
 Be careful not to damage the near components.

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



2 Using the tweezers, lift up the upper metal plate carefully and separate it from the device.

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

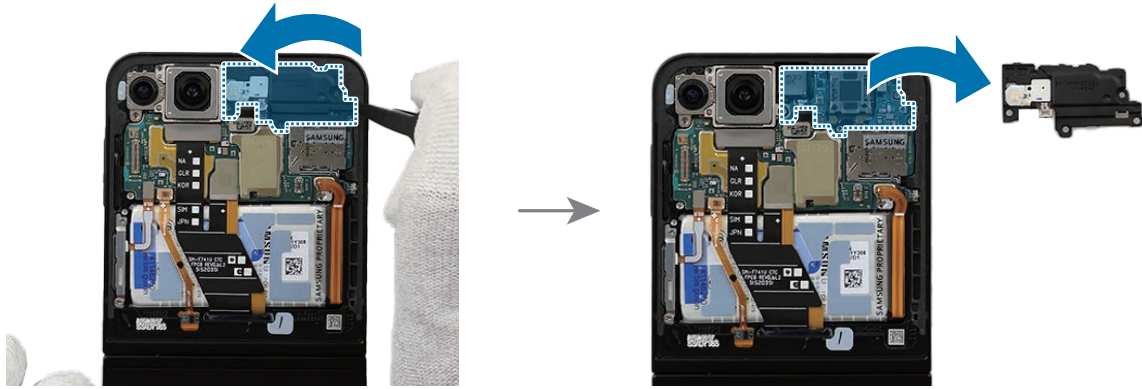


3 Using the tweezers, disconnect the main battery connector. Using the tweezers, disconnect the flash connector from the main board. Then, lift up on the separator groove of the rear top and remove it from the device.



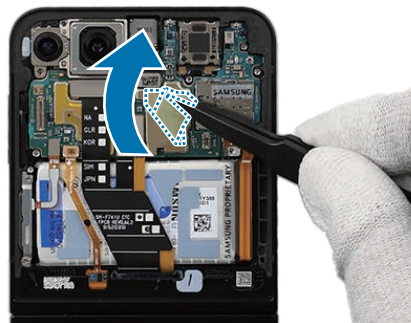
- Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.

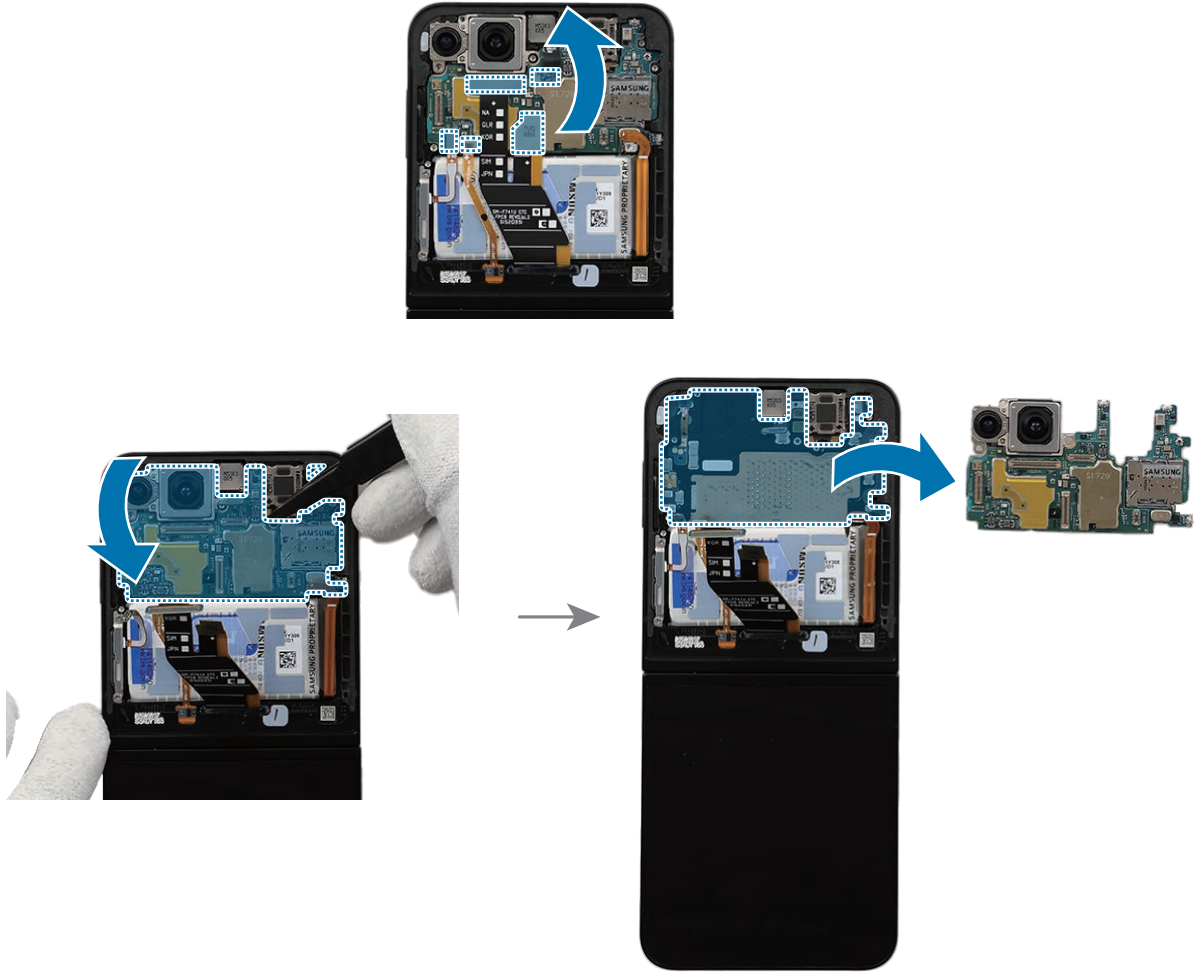




4 Using the tweezers, remove the top FPCB insulation adhesive tape from the main board. Using the tweezers, disconnect 5 connectors from the main board. Then, lift up on the separator groove of the main board and remove the main board module.

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

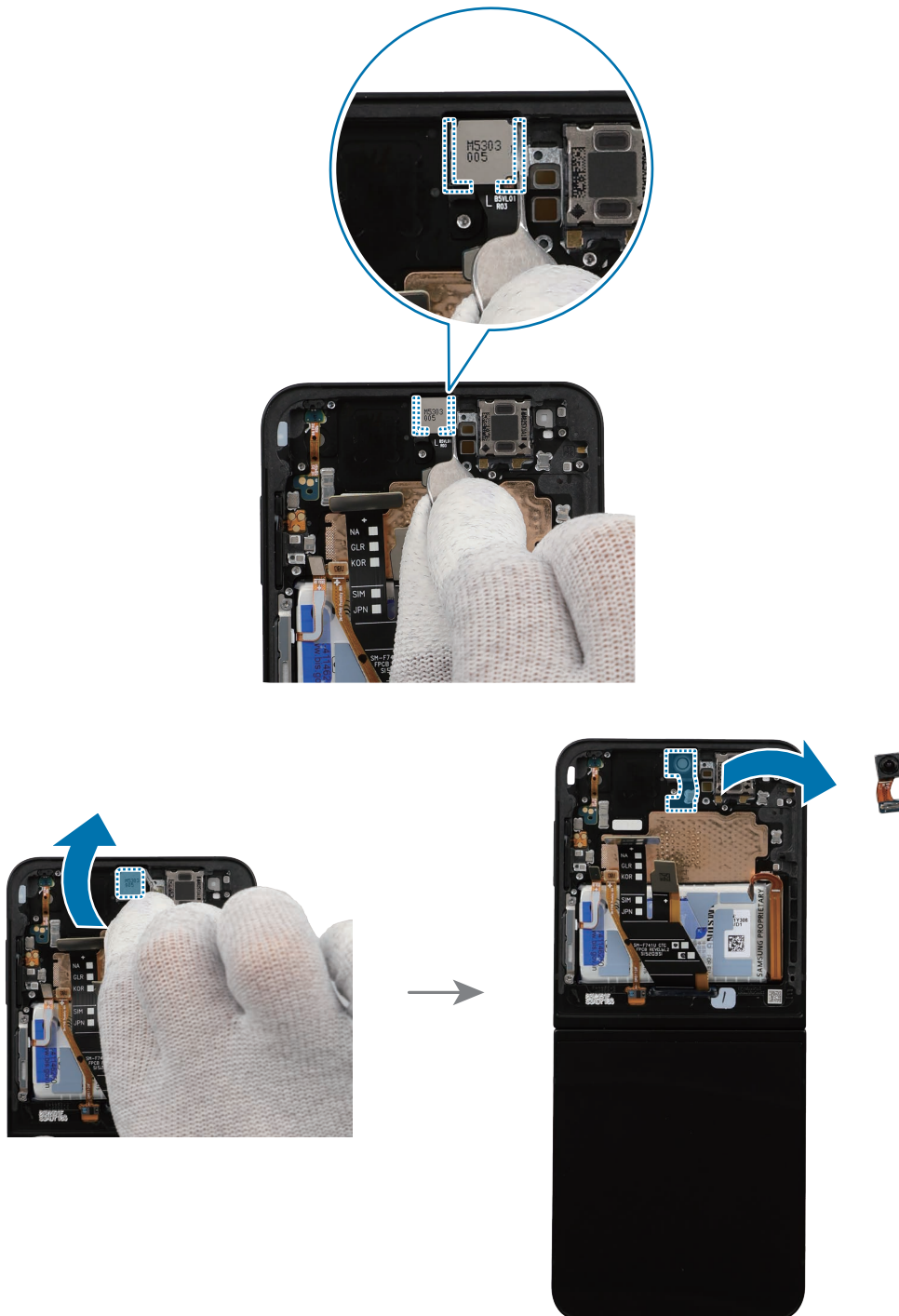
- ⚠ • It is possible for the device or battery to be damaged by heat.
- Do not heat the device in a microwave. Doing so could cause an explosion.
- If your device's glass breaks, the debris can cause injury to your hands or other body parts. For your safety, attach an acrylic protective cover before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




6 Before the heat cools with the heating bag applied, remove the adhesive between the front camera and the metal frame using the SIM card tray ejection pin. Then, remove the front camera carefully with your fingers, and leave the camera lens facing up.

⚠ As the adhesive securing the camera is very strong, work slowly.


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

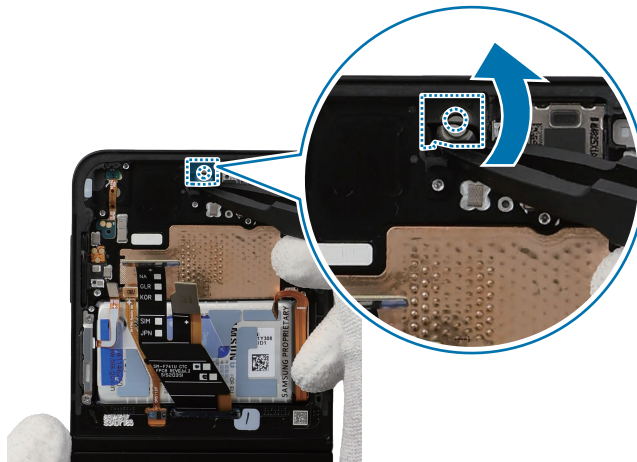


Reassembly

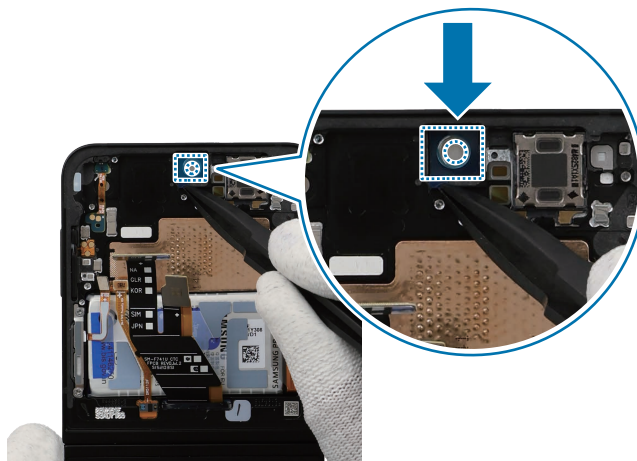
 Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

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

 Be careful not to damage the near components.



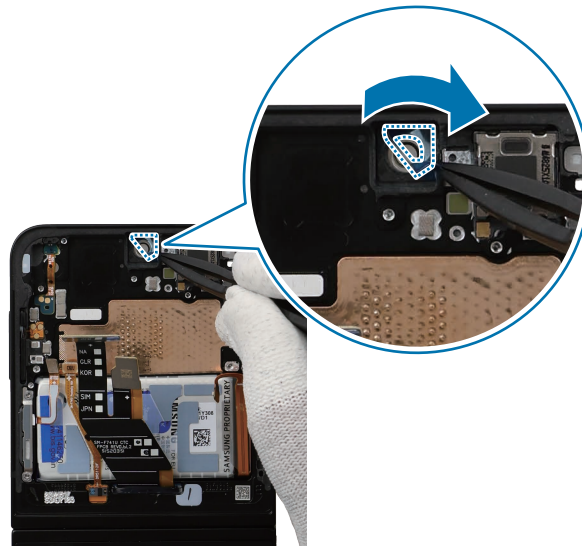
2 Using the tweezers, remove the release film of the new front camera adhesive tape (1 ea). Then, align the outside shape of the tape with the position of the front camera hole and attach it accurately.



- 3 Gently press down the tape with the tweezers so that the tape can be attached well.

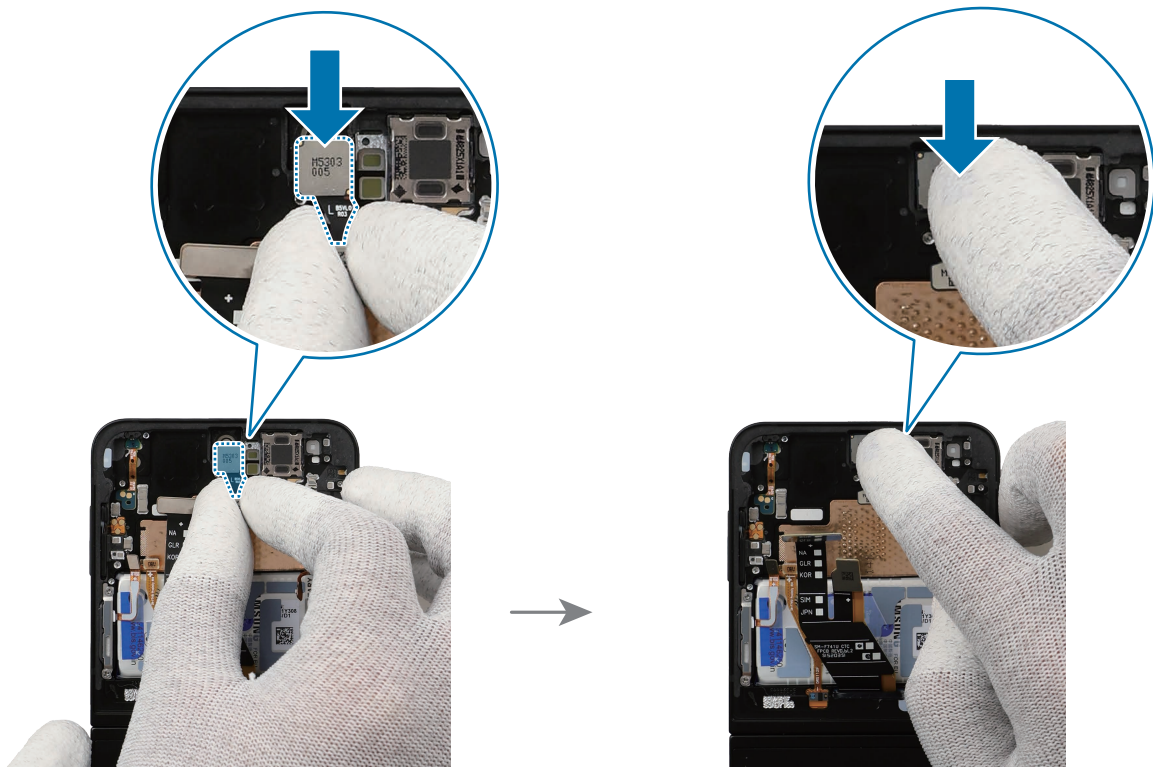


- 4 Using the tweezers, hold the protruding release film of the attached tape and carefully remove it.



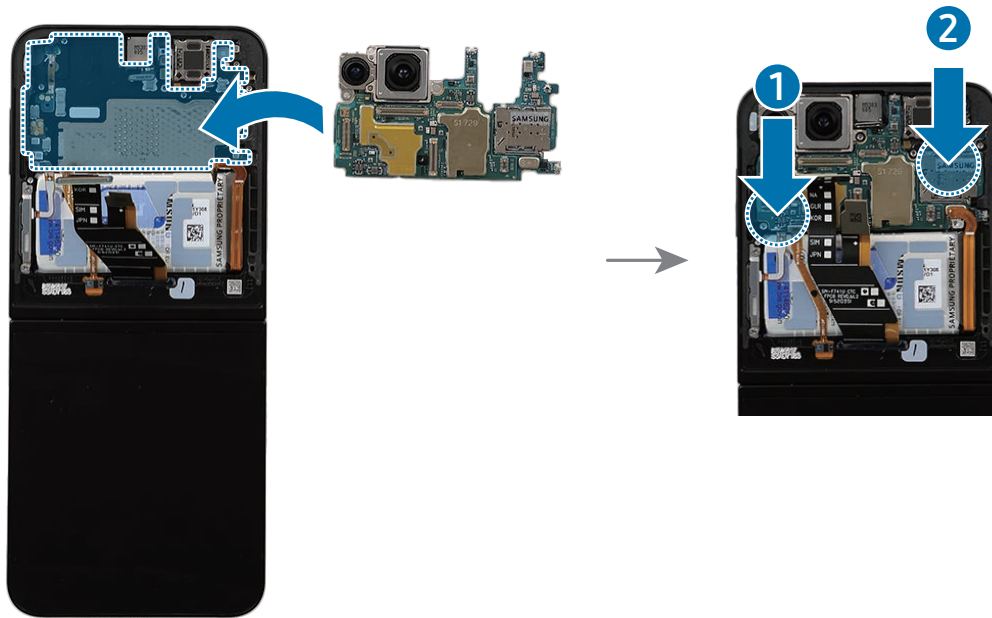
5 Using the tweezers or your fingers, place the front camera in the camera hole so that the lens faces forward, and gently insert the front camera. Press down softly and evenly on the camera module so that the front camera can be fully inserted.

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



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

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

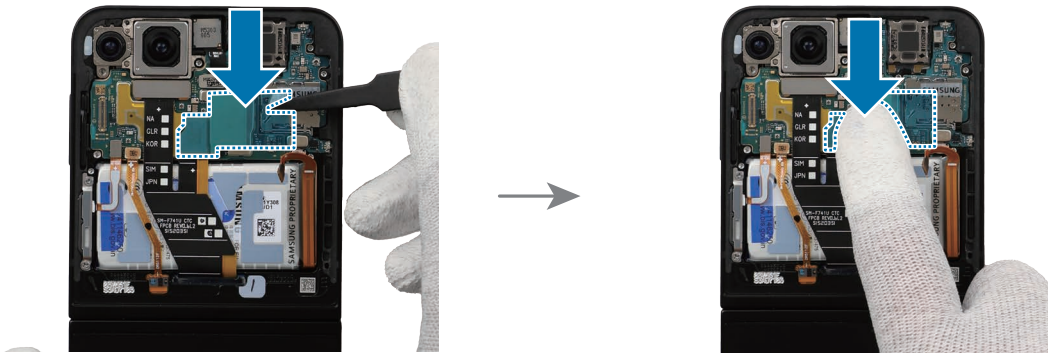


7 Using your fingers, connect the 5 connectors on the main board.

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



- 8 Using the tweezers, align the new top FPCB insulation adhesive tape on the main board and attach the tape. Gently press it down to ensure a secure fit.

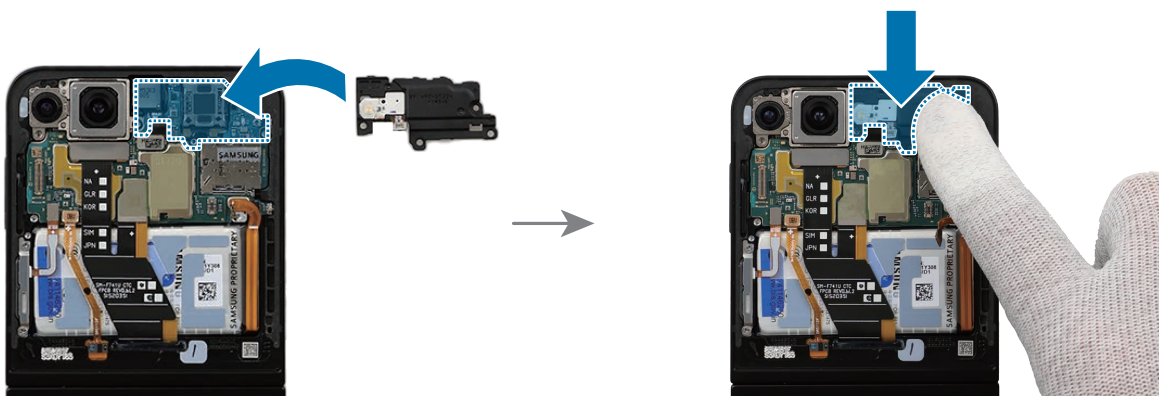


- 9 Using the tweezers or your fingers, remove the release film of the tape.

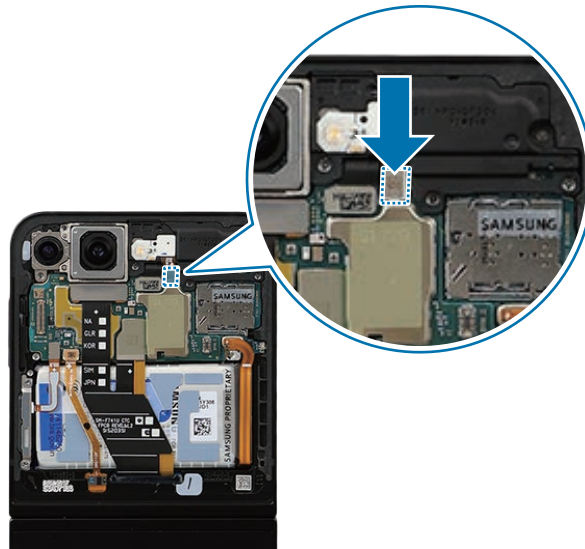


- 10 Using the tweezers, position the rear top in the correct location and gently press down to secure it in its position until you hear a locking sound.

⚠ Be careful not to damage the main board.



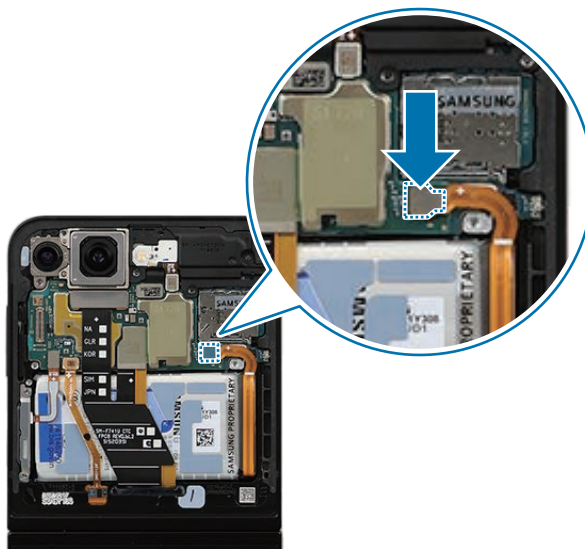
11 Using your fingers, connect the flash connector on the main board.



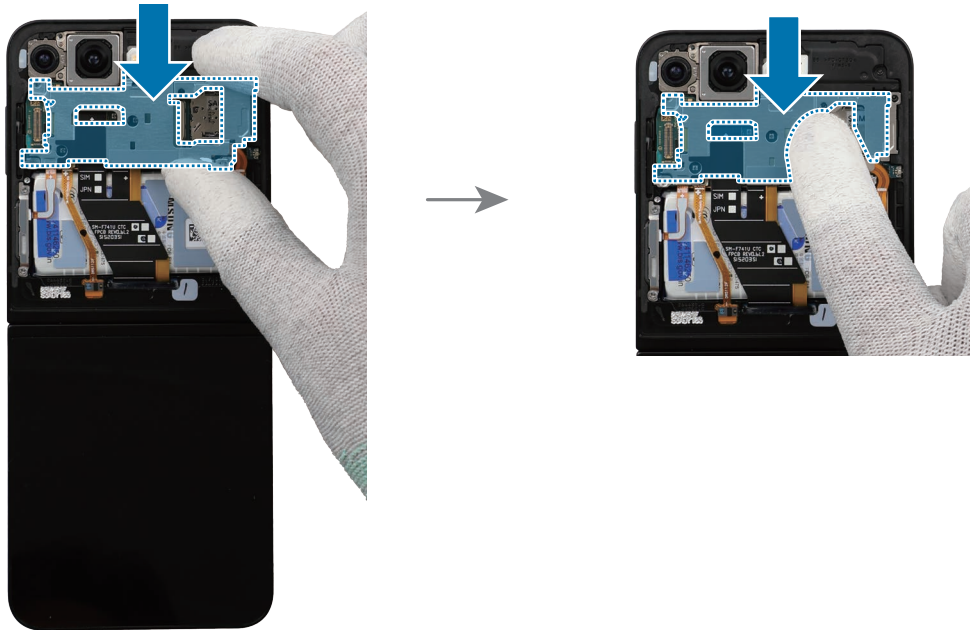
12 Connect the main battery connector to the main board.

⚠ Be careful not to damage the battery.

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



- 13 Using the tweezers or your fingers, assemble the upper metal plate carefully and press it down to secure it in place.

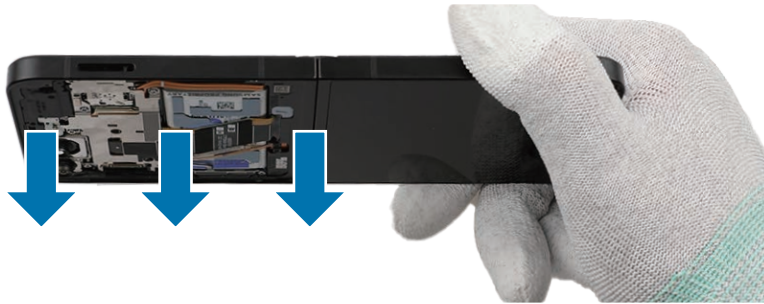


- 14 Check the screw 3487 (1 ea) on the camera frame and fasten it using a cross-head screwdriver. Then, check the screw 3506 (7 ea) at the 7 different points on the upper metal plate and the rear top and fasten them using a cross-head screwdriver.

- ⚠ • Be careful not to damage the near components.
- Be careful not to fasten the screw to the wrong position.
- Be careful not to mix the screws.



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



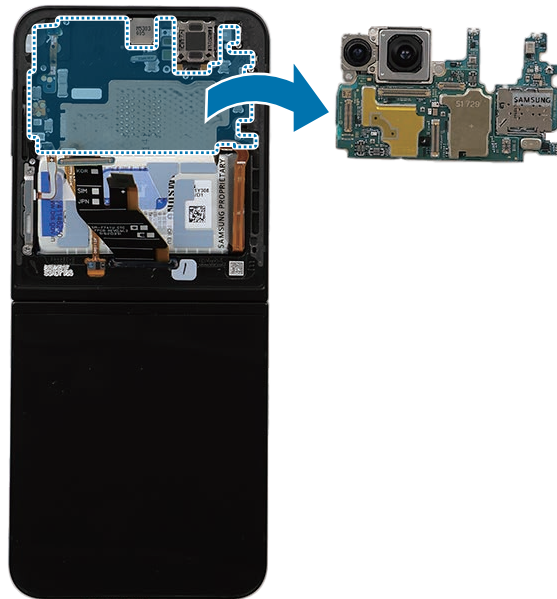
-  Reassemble the [Cover Screen](#) and [SIM Card Tray](#) to complete assembly.

Rear Camera


Disassembly


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

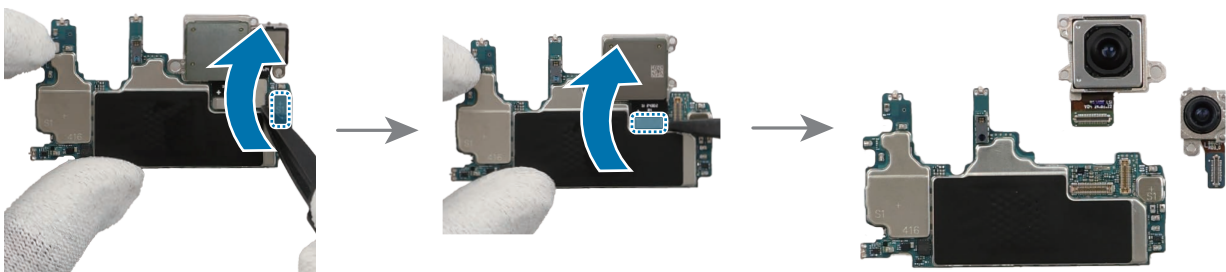
- 1 Check for the disassembly steps of the [Front Camera](#) and completely separate the main board with the rear cameras.




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

 Be careful not to damage the main board.


 Separate and replace only the problematic camera.

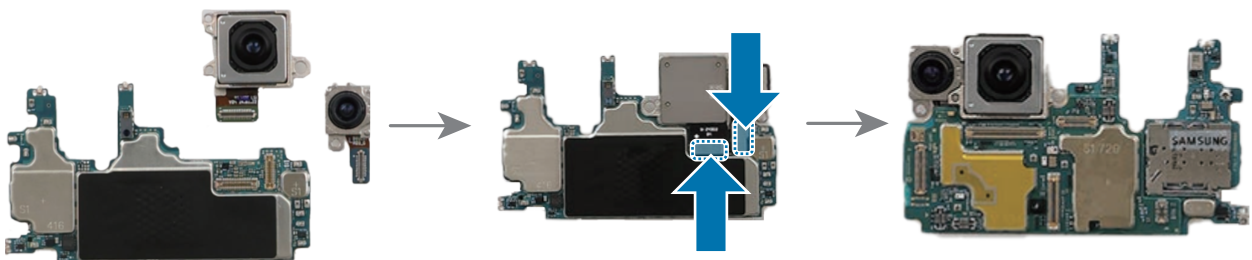


Reassembly

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

1 Using your fingers, connect the rear camera connector on the main board. Leave the camera lens facing up.

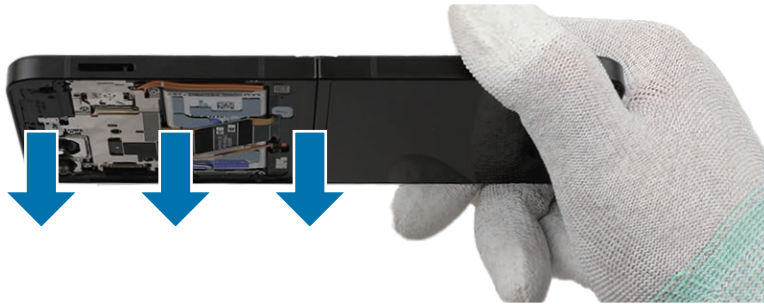
-  Be careful not to drop the camera while connecting the connector.
- Be careful not to damage the camera lens and near components.
- Be careful not to damage the main board.



2 Check for the reassembly steps of the [Front Camera](#) and completely reassemble the main board and the upper metal plate.




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



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

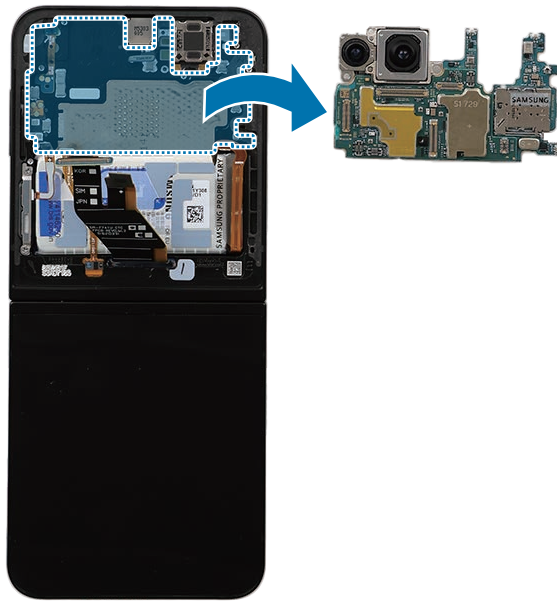
Top Speaker

 The top speaker is built into the rear top.

Disassembly

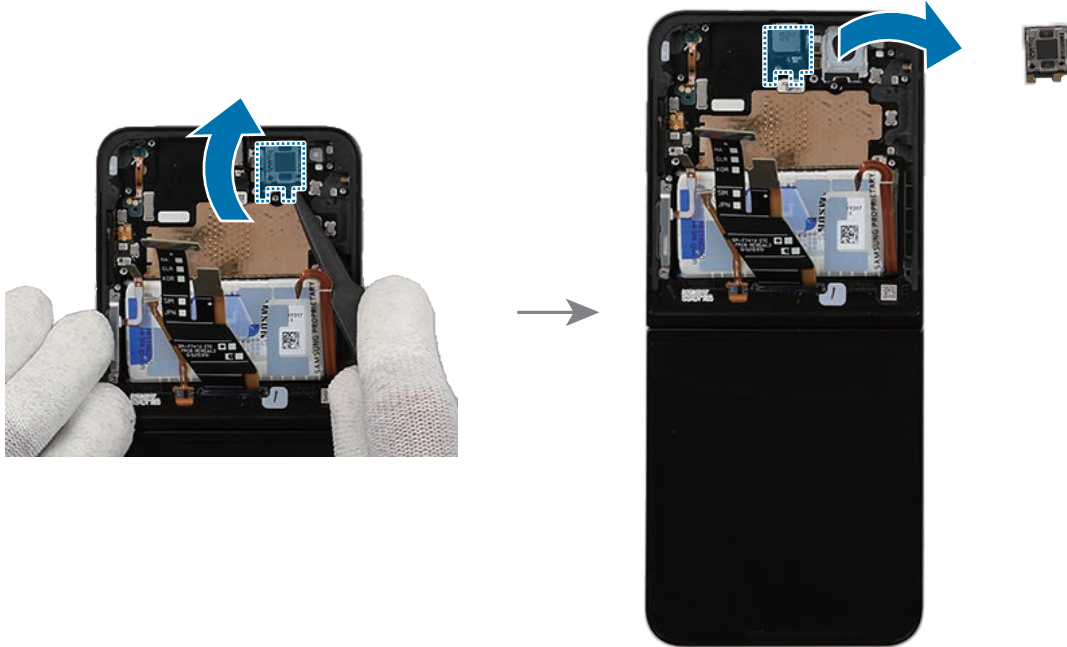
 Remove the [SIM Card Tray](#) and [Cover Screen](#) first before you begin.

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




2 Lift up on the separator groove of the top speaker using the tweezers and remove it carefully from the device frame.


⚠ Be careful not to damage the near components.

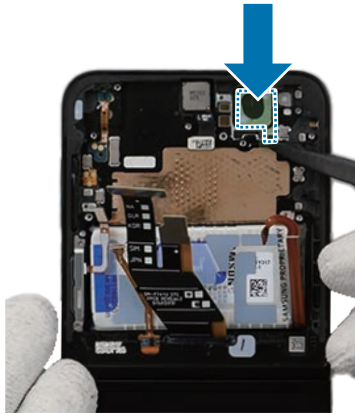


Reassembly

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

1 Using the tweezers, remove the release film of the new top speaker adhesive tape (1 ea). Align the outside shape of the tape with the position of the top speaker hole and attach it accurately.

 Be careful not to damage the near components.



2 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 Remove the release film from the new top speaker and assemble the speaker to the exact position of the device frame using the tweezers or your fingers.

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



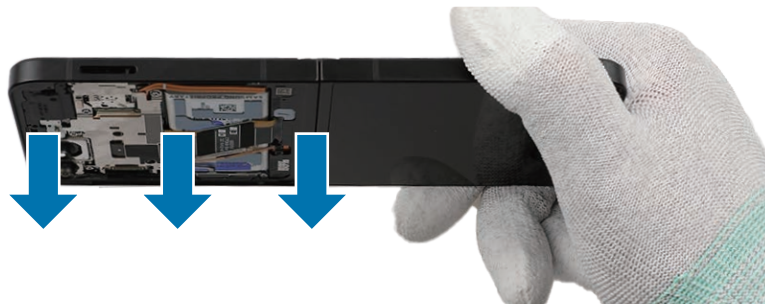
- 5 Press the top speaker with your fingers softly so that the speaker can be assembled well.



- 6 Check for the reassembly steps of the [Front Camera](#) and completely reassemble the main board and the upper metal plate.



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



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

Bottom Speaker

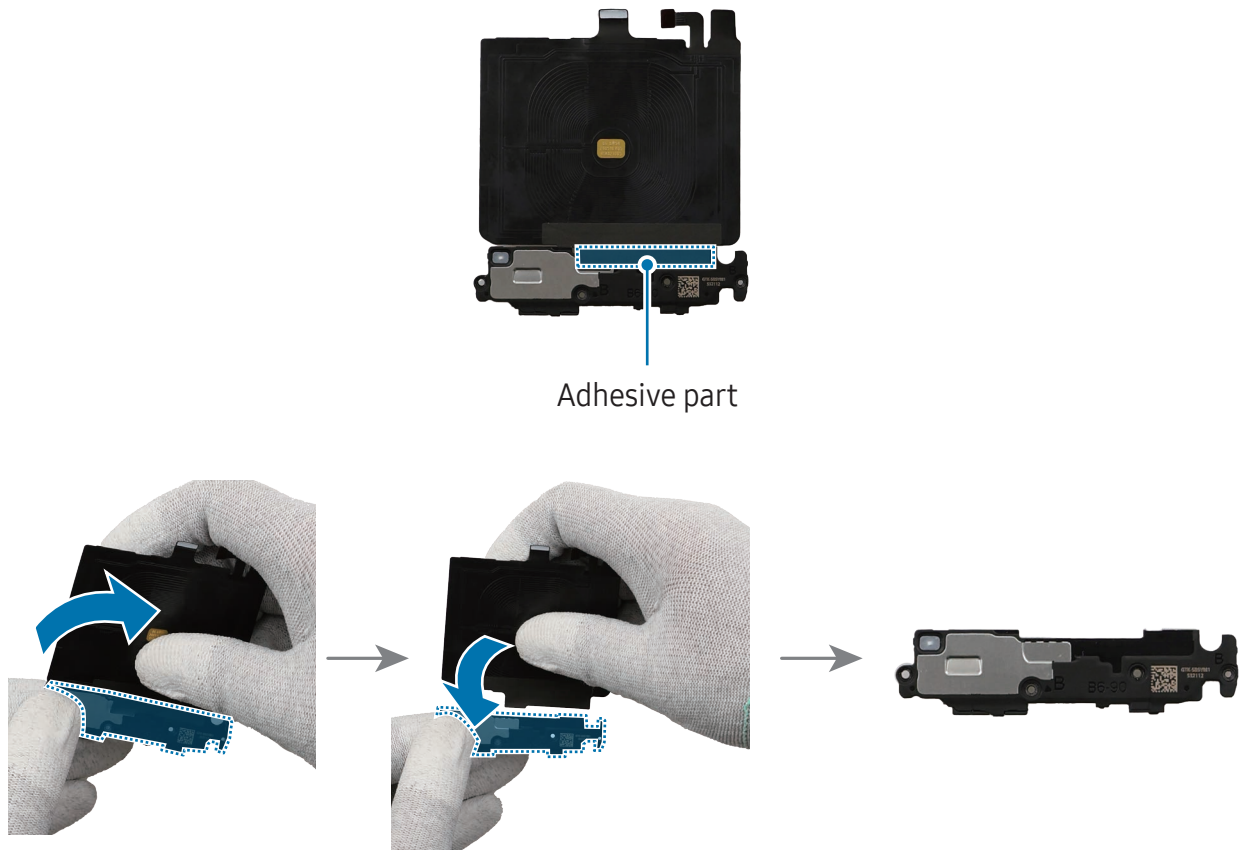
Disassembly

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

- 1 Check for the disassembly steps of the [Charging Port and Microphone](#) and separate the wireless charging module and speaker module simultaneously from the device.



- 2 Using your fingers, separate the wireless charging module and the bottom speaker module from each other.
- ⚠ Be careful not to damage or tear the adhesive parts of the wireless charging module.
 - Ensure that the wireless charging module is unfolded to prevent damaging the FPCB.

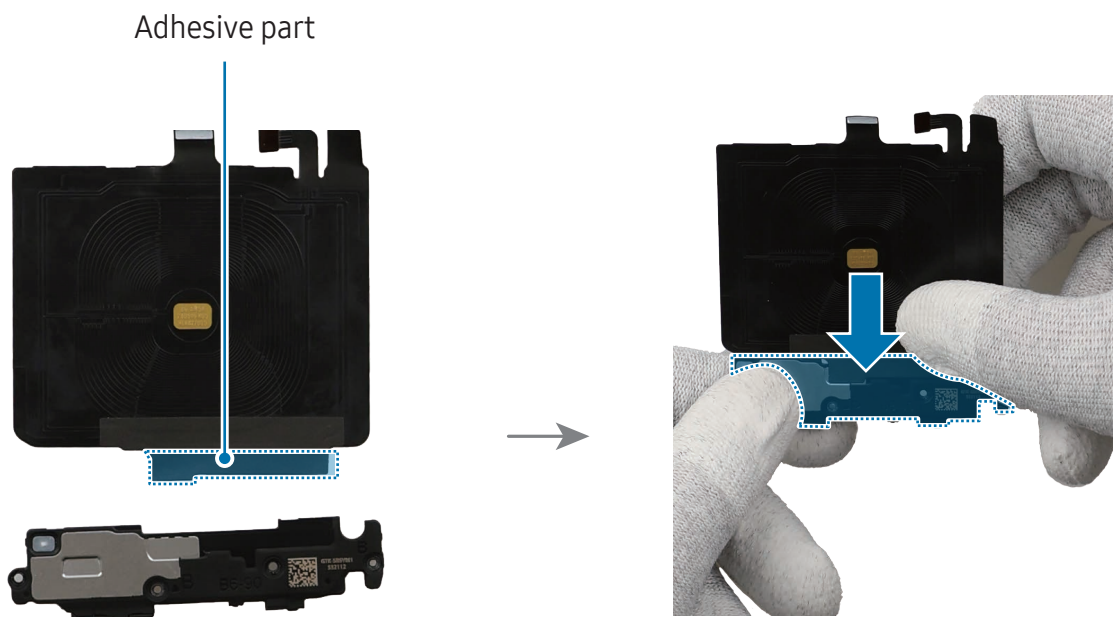


Reassembly

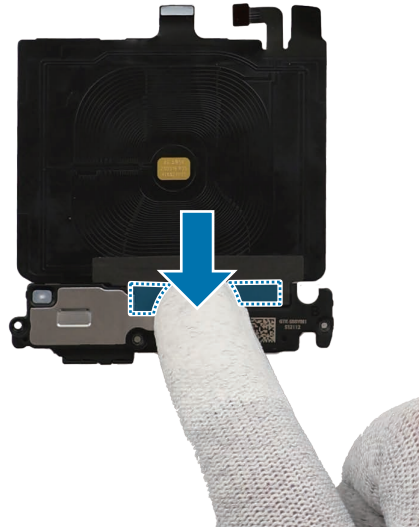
! Leaving screws inside the device may damage internal components, such as the battery. During assembly, be extra careful not to leave any unassembled screws inside the device.

1 Align the adhesive part of the wireless charging module to the bottom speaker module and attach it accurately.

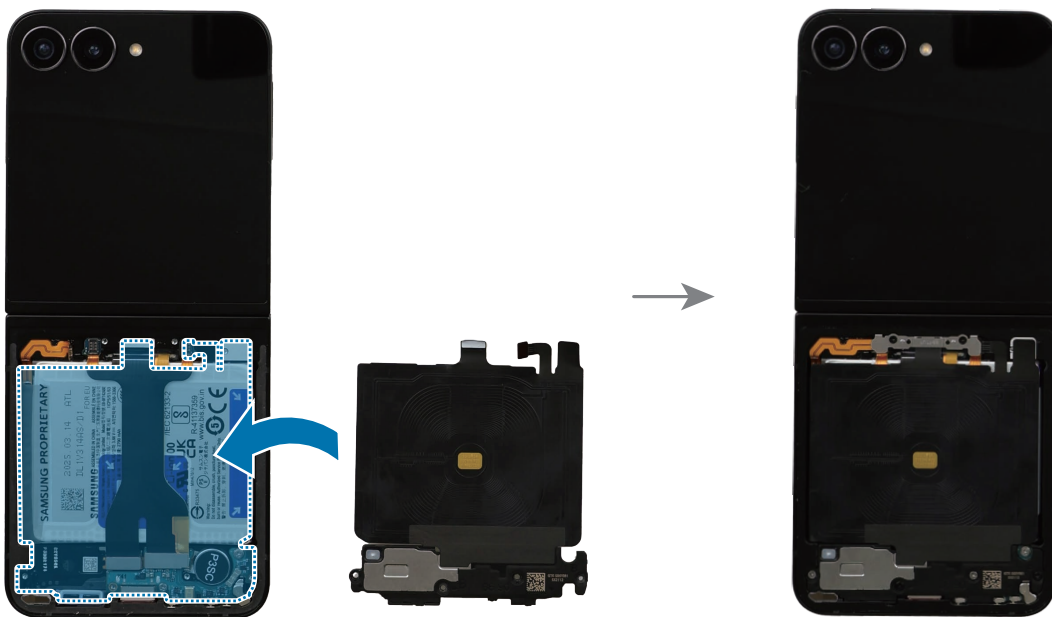
! Be careful not to damage the bottom speaker and wireless charging module.



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



- 3 Check for the reassembly steps of the [Charging Port and Microphone](#) and completely reassemble the wireless charging module and speaker module to the device.



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



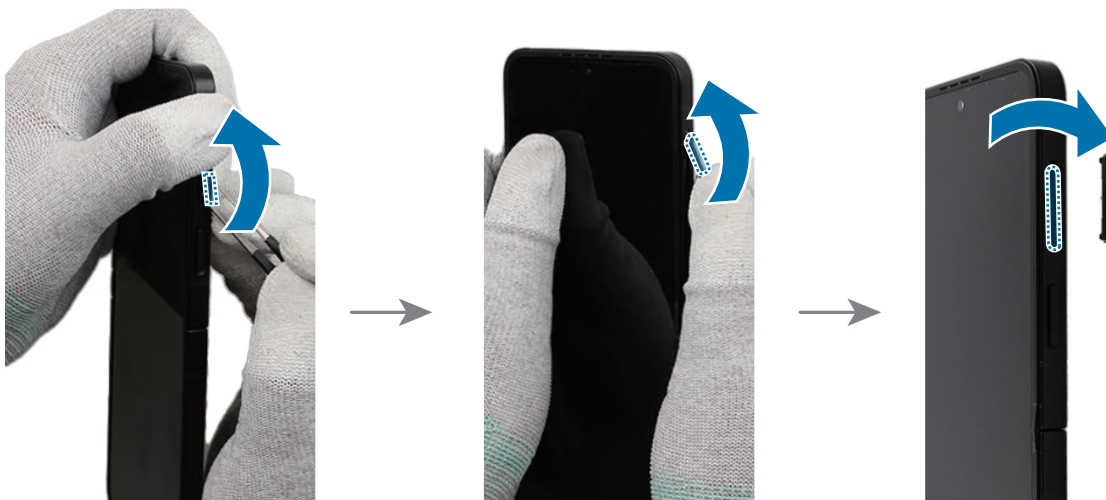
-  Reassemble the [Back Cover](#) to complete assembly.

Volume Button


Disassembly

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

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



Reassembly

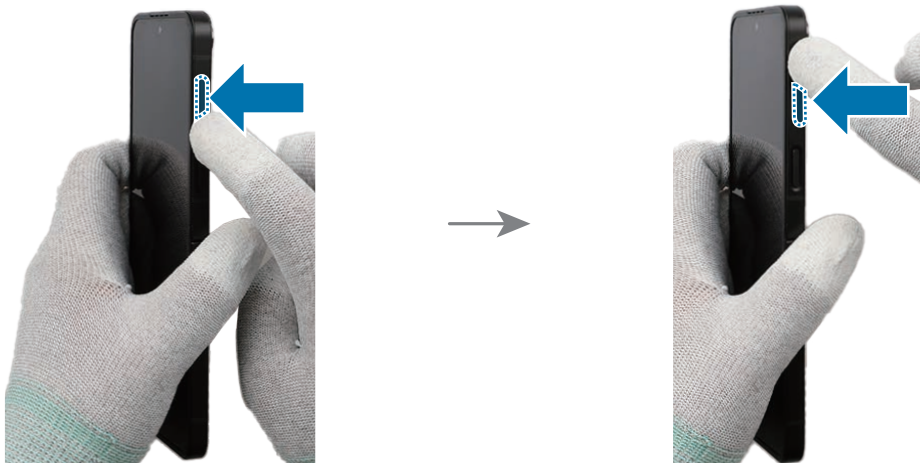
 Leaving screws inside the device may damage internal components, such as the battery. During assembly, be extra careful not to leave any unassembled screws inside the device.

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

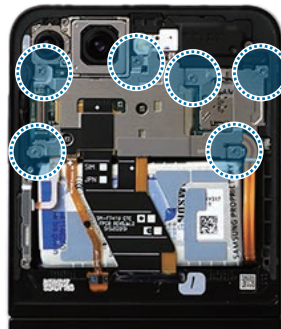


Side Button (Fingerprint Recognition Sensor)

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

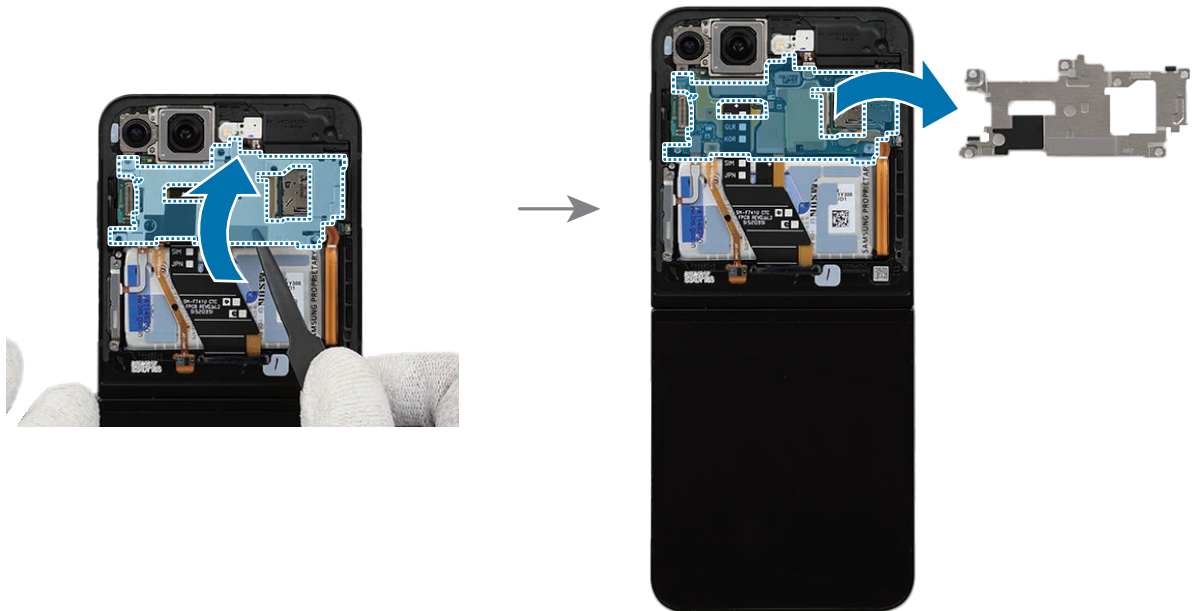
Disassembly

- ✎ Remove the [Cover Screen](#) first before you begin.
- 1 Check the screws at the 6 different points on the upper metal plate and remove them using a cross-head screwdriver.
- ⚠ Be careful not to damage the near components.
 - ✎ Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



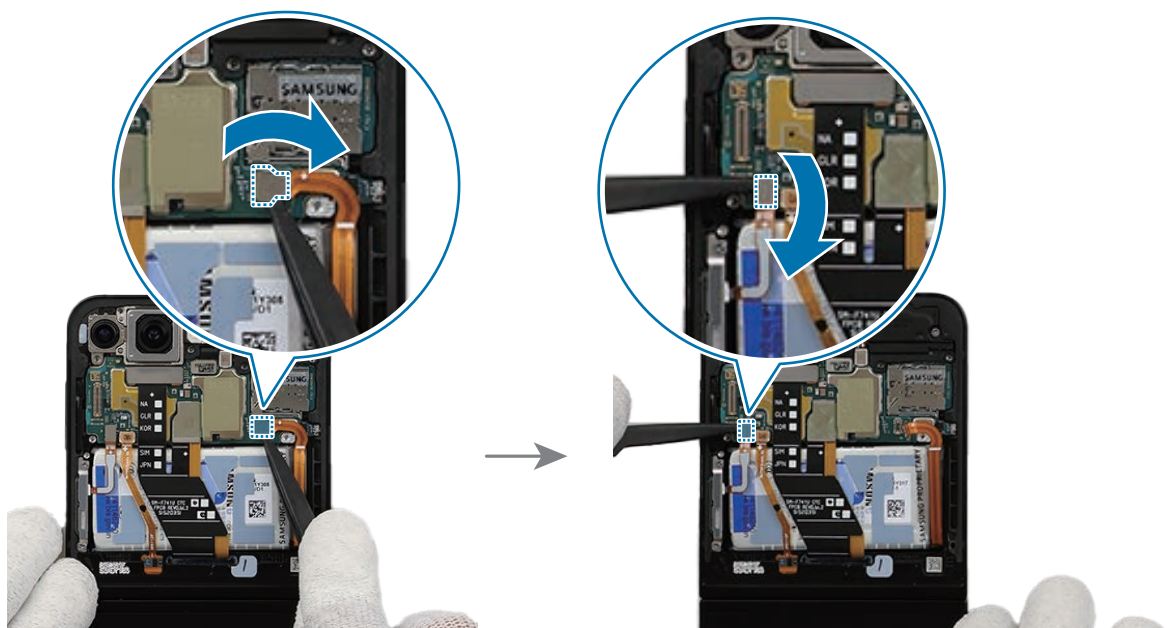
2 Using the tweezers, lift up the upper metal plate carefully and separate it from the device.

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




3 Using the tweezers, disconnect the main battery connector and the fingerprint recognition sensor connector.

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



4 Check the screws at the 2 different points 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.



5 Using the tweezers, remove the metal bracket from the device frame.



- Using the tweezers, remove the plastic bracket from the device frame. The Side button module (fingerprint recognition sensor) is removed together with the bracket.

⚠ Be careful not to damage the near components.



Reassembly

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

- 1 Using the tweezers, remove the release film of the new plastic bracket.



- 2 Combine the plastic bracket with the new Side button module carefully.

- ⚠ Be careful not to damage the Side button module and bracket.

- ✔ Bend the Side button module properly so that it can combine well.



3 Using the tweezers, grab the Side button module and insert it into the slot of the device frame carefully.

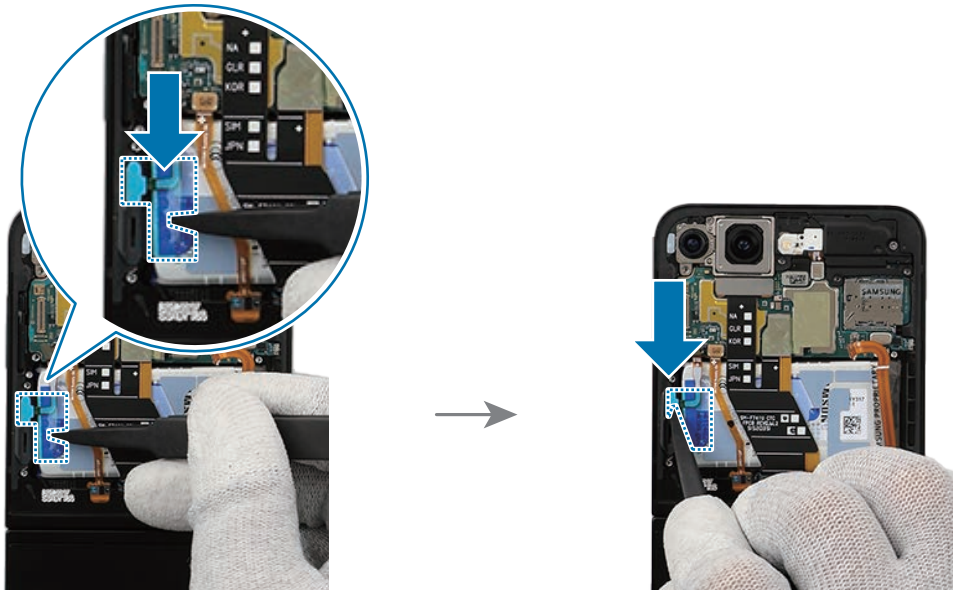
- ⚠ • Be careful not to put the bracket in the wrong direction.
- Be careful not to damage the near components.



4 Using your fingers, gently press down the plastic bracket and assemble it completely to the device frame.



- 5 Using the tweezers, align the new Side button water-resistant tape precisely at the top of the bracket and attach it. Gently press down softly with the tweezers.

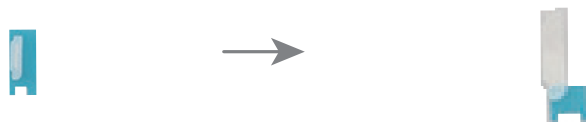


- 6 Remove the release film of the tape.



- 7 Using the tweezers, remove the release film from the new Side button air vent adhesive tape.

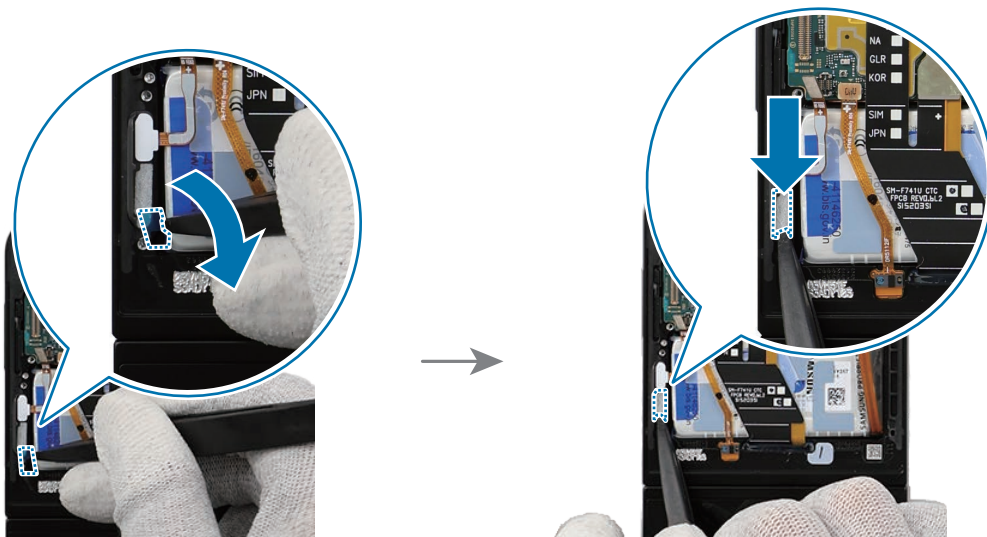
- ⚠ Be careful not to damage the tape.



- 8 Using the tweezers, align the new air vent tape precisely at the bottom of the bracket and attach it. Gently press down softly with the tweezers or your fingers.



- 9 Remove the release film of the tape. Gently press down the attached tape softly with the tweezers or your fingers.



10 Using the tweezers, assemble the metal bracket on the device frame.



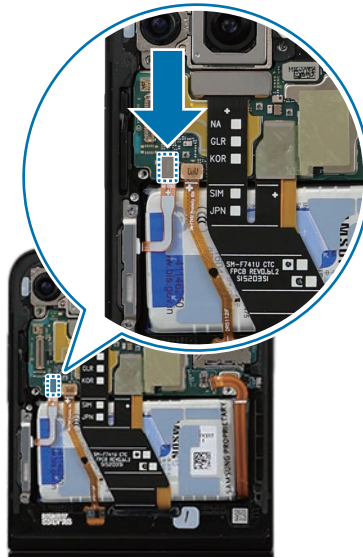
11 Check the screw 3442 (2 ea) at the 2 different points on the metal bracket and fasten them using a cross-head screwdriver.

⚠ Be careful not to damage the battery.

⚠ Be careful not to damage the near components.



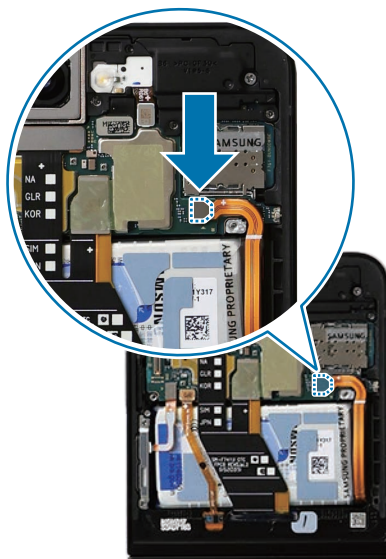
12 Connect the fingerprint recognition sensor connector.



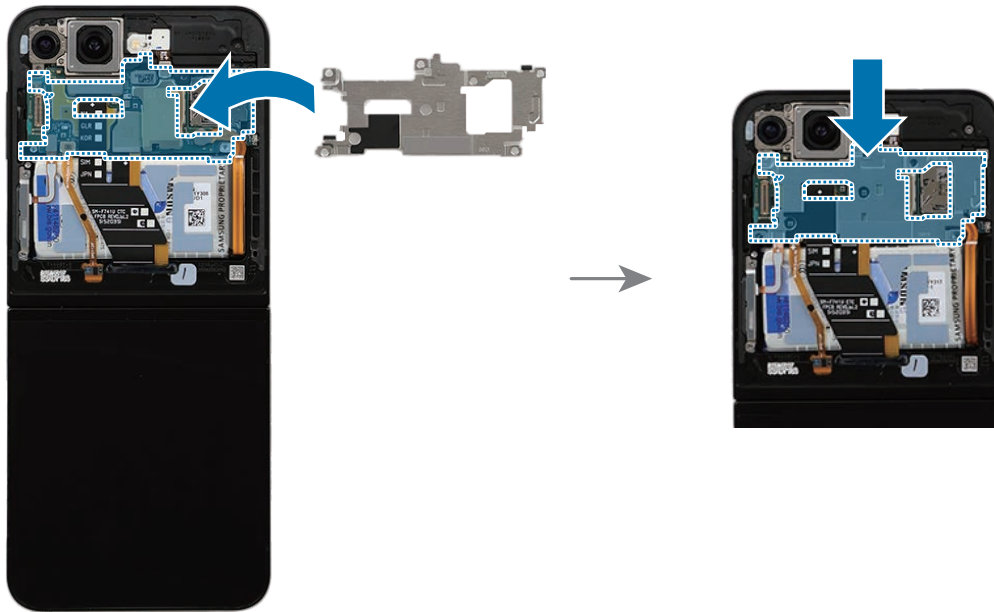
13 Connect the main battery connector to the main board.

⚠ Be careful not to damage the battery.

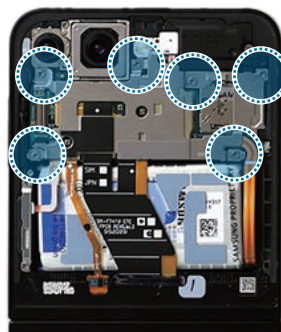
⚠ Be careful not to damage the battery connector and near components.



- Using the tweezers or your fingers, assemble the upper metal plate carefully and press down on it in its position.



- Check the screw 3506 (6 ea) at the 6 different points on the upper metal plate and fasten them using a cross-head screwdriver.



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


Screen Module

Disassembly

Remove the SIM Card Tray, Cover Screen, Front Camera, Back Cover, and Charging Port and Microphone one by one.



Reassembly

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


Reassemble the [Charging Port and Microphone](#), [Back Cover](#), [Front Camera](#), [Cover Screen](#), and [SIM Card Tray](#) one by one to complete assembly.



Main Screen

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

Disassembly

-  Remove the [SIM Card Tray](#), [Cover Screen](#), [Back Cover](#), and [Charging Port and Microphone](#) first before you begin.

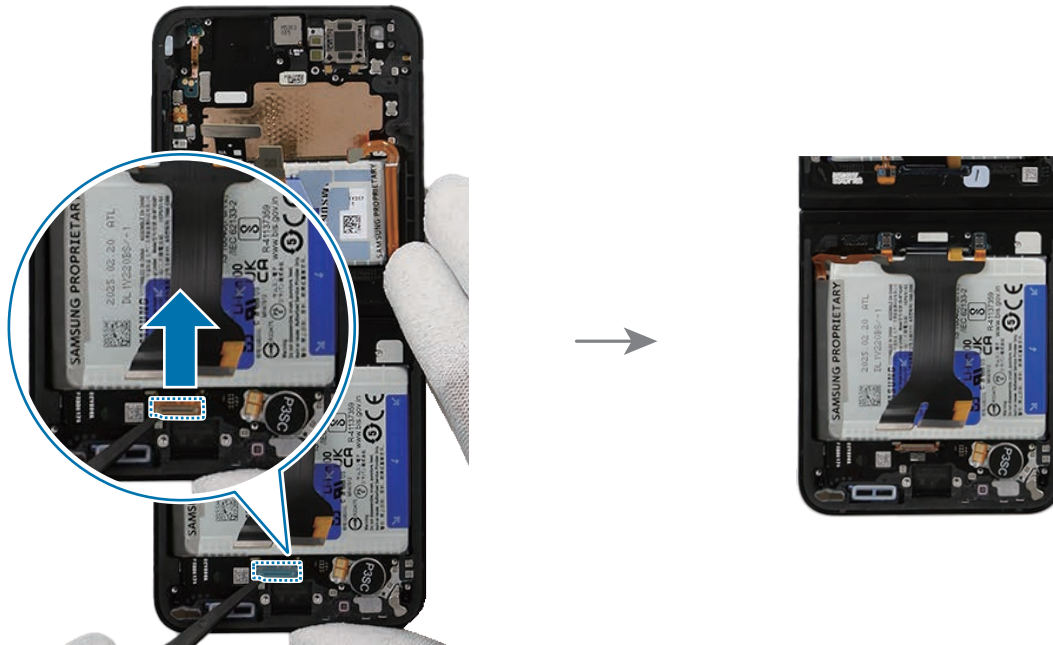
- 1 Check for the disassembly steps of the [Front Camera](#) and completely separate the main board with the rear cameras.



2 After lifting the FPCB cable up carefully, lift up on the separator groove of the main screen connector using the tweezers and separate it slowly from the metal frame.

⚠ Be careful not to damage the battery.

⚠ Be careful not to damage the near components.



3 Heat the microwaveable heating bag for 70 seconds and apply it on the main screen for 3 minutes.

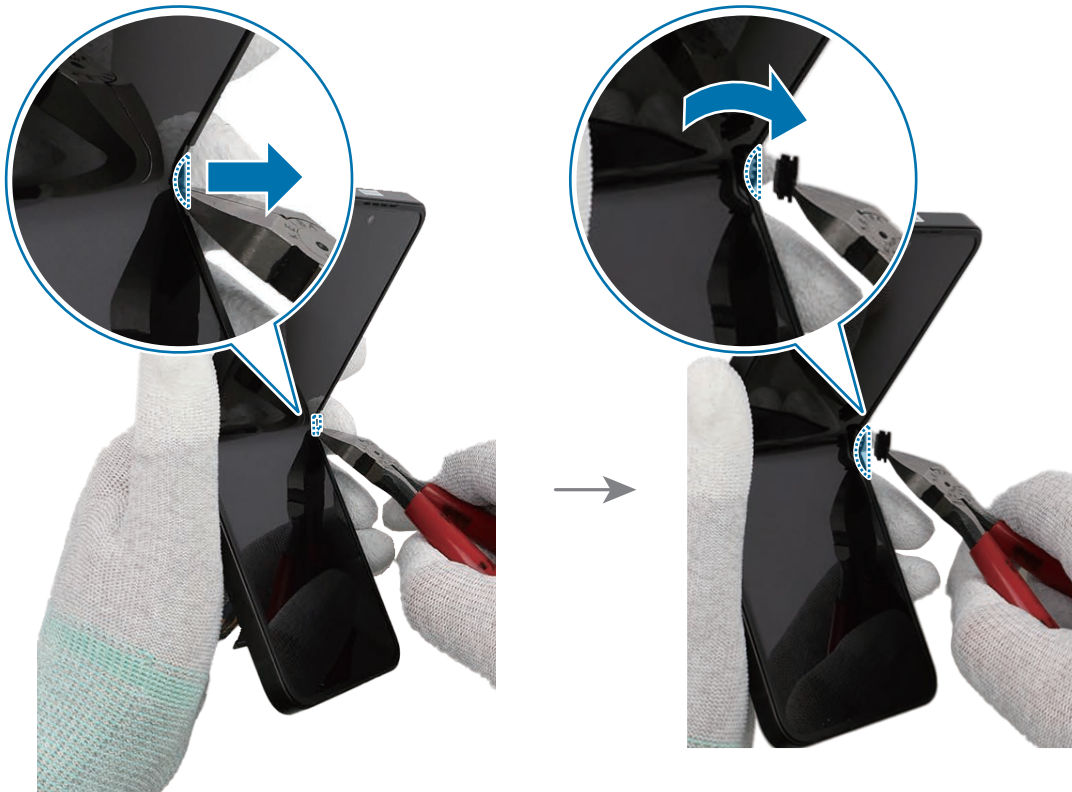
- ⚠ • It is possible for the device or battery to be damaged by heat.
- Do not heat the device in a microwave. Doing so could cause an explosion.
- If your device's glass breaks, the debris can cause injury to your hands or other body parts. For your safety, attach an acrylic protective cover before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



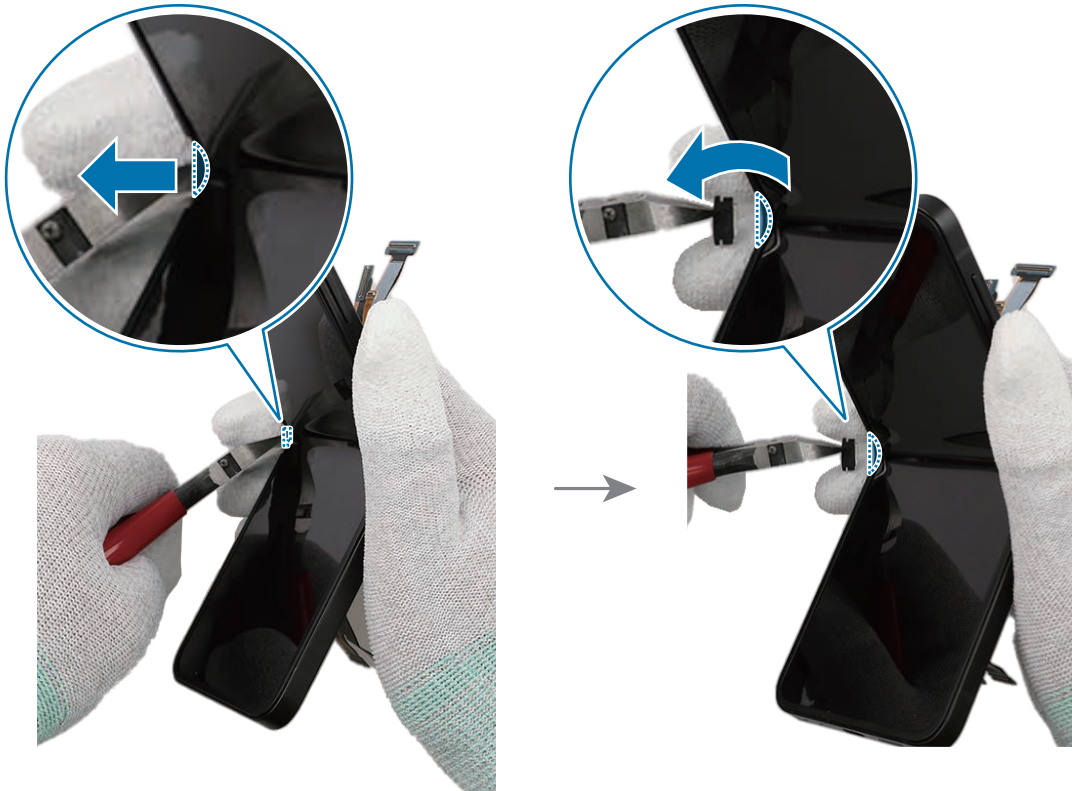
4 Fold the device properly so that the both P-cap located on the edge of the device can be seen. Using the nipper, hold the P-cap on the right and carefully pull it out, and remove it from the device.

⚠ When removing the P-cap, be careful not to damage or scratch the device.

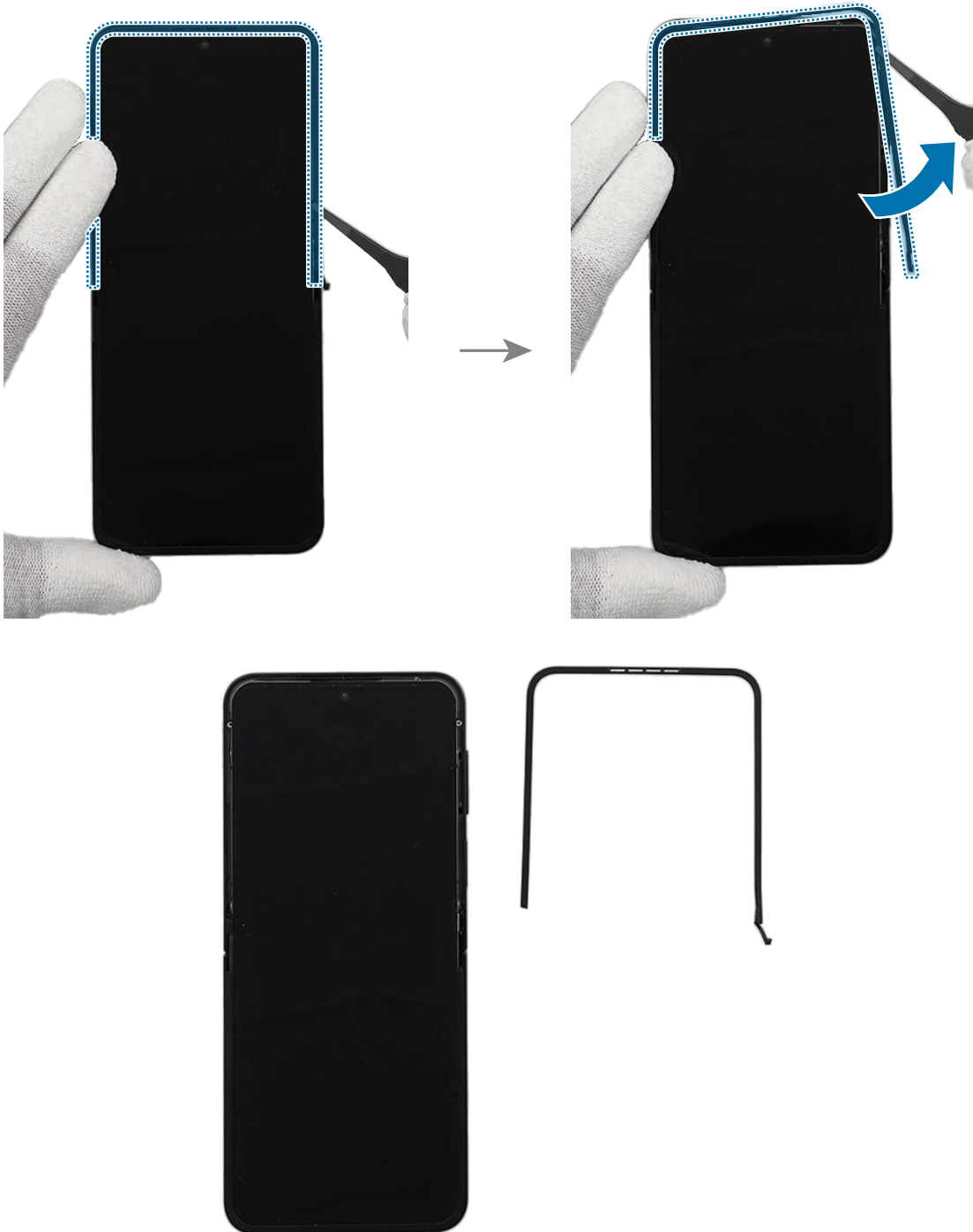
📝 If you have trouble removing the P-cap, heat the microwaveable heating bag additionally, and apply it on the main screen to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.



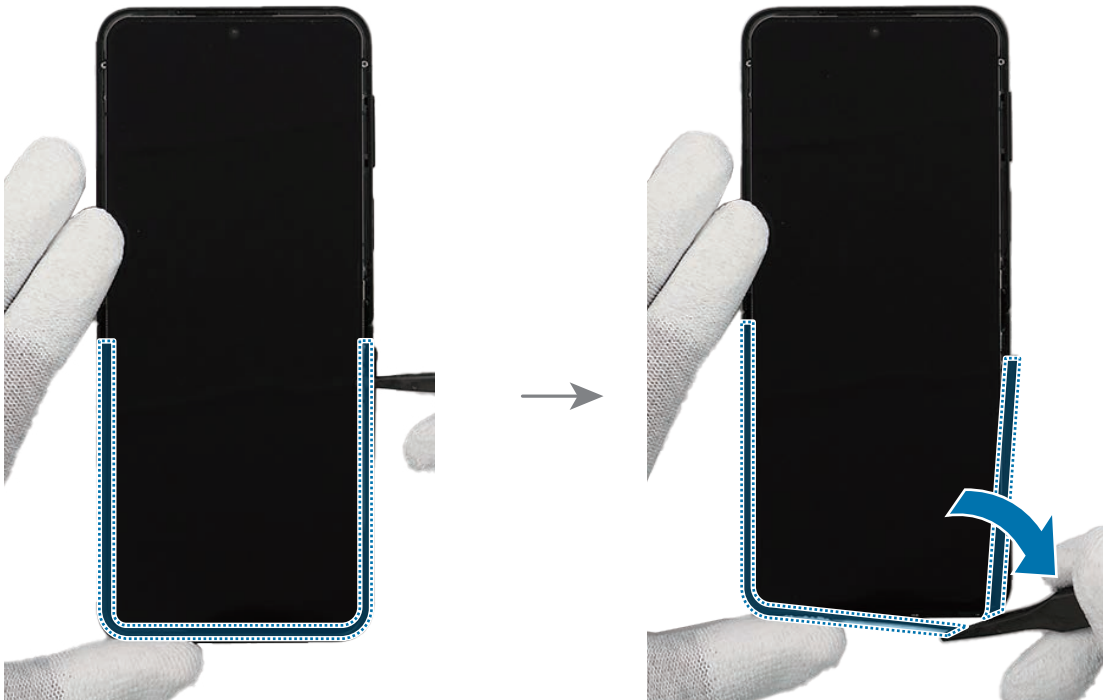
- 5 Using the nipper, hold the P-cap on the left and carefully pull it out, and then remove it from the device.



- 6 Insert the tweezers into the area where the P-cap has been removed and carefully separate the top deco along the edge. Then, remove it completely from the device.
- ⚠ When removing the deco, be careful not to damage or scratch the device.
 - 📝 If you have trouble removing the deco, heat the microwaveable heating bag additionally, and apply it on the main screen to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.



- 7 Insert the tweezers into the area where the P-cap has been removed and carefully separate the bottom deco along the edge. Then, remove it completely from the device.



8 Heat the microwaveable heating bag for 70 seconds and apply it on the main screen for 5 minutes.

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



9 Insert the opening pick carefully into the upper right corner of the back of the main screen and lift up the screen slightly. Slide the opening pick carefully along the edges to slice through the adhesive between the screen and the metal frame, and separate the screen slowly while lifting it up as a whole with smooth and steady force.

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

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

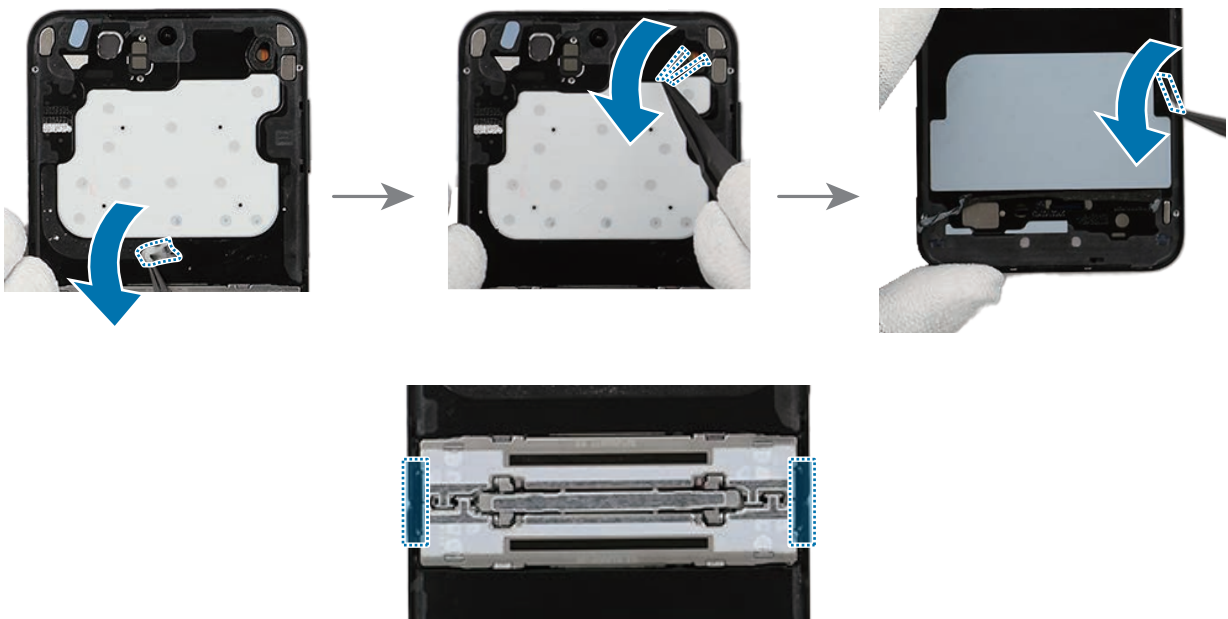


Reassembly

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

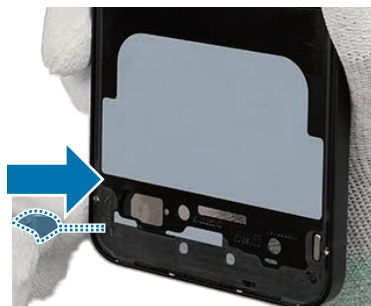
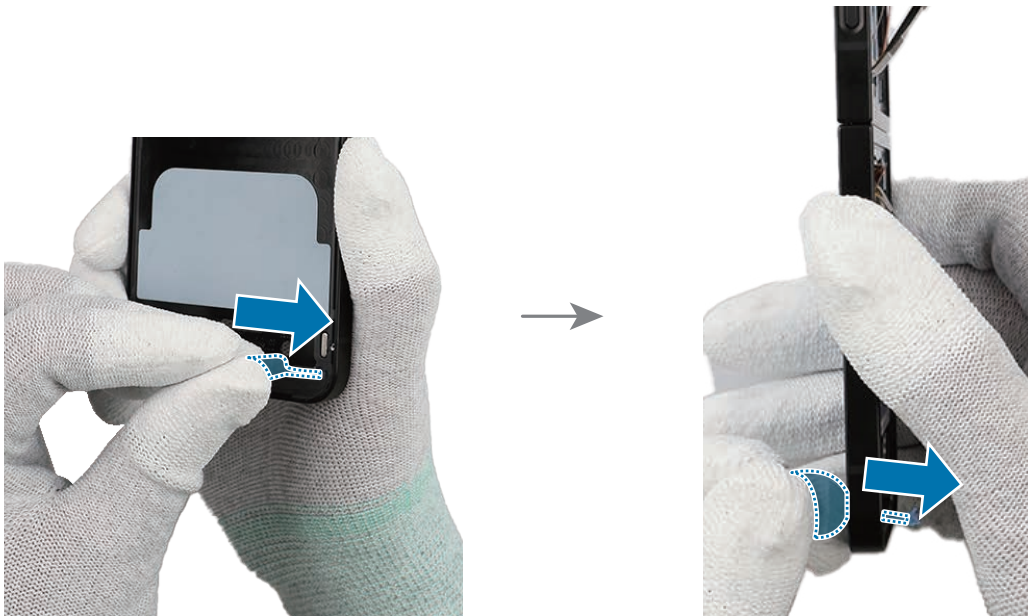
1 Using the tweezers and your fingers, remove all adhesive tapes on the metal frame. Using the tweezers, perfectly remove all adhesives on all edges including the P-cap areas.

- ⚠
 - Make sure to remove any residual tapes attached to the area where the screen was separated before reassembling the screen.
 - Be careful not to damage the near components.
 - Be sure to remove any residual adhesives attached on the both P-cap areas. Otherwise, the new P-cap may not be assembled properly.



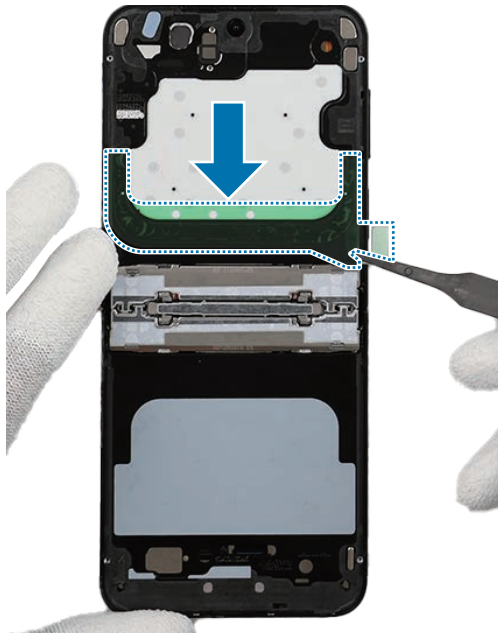
2 Remove the adhesives in the lower 2 holes. Using the ejection pin, push the adhesives from the inside of the hole and remove the escaped adhesives.

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



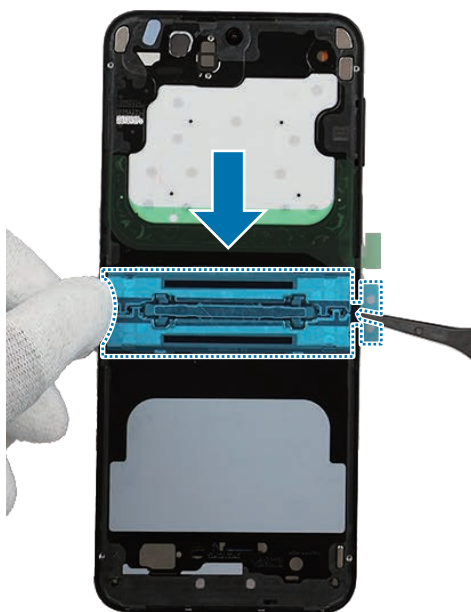
- 3 Remove the transparent film of the new main screen top adhesive tape. Using the tweezers, align the tape precisely on the metal frame and attach it. Press down the tape softly.

⚠ Be careful not to damage the tape when removing the transparent film.

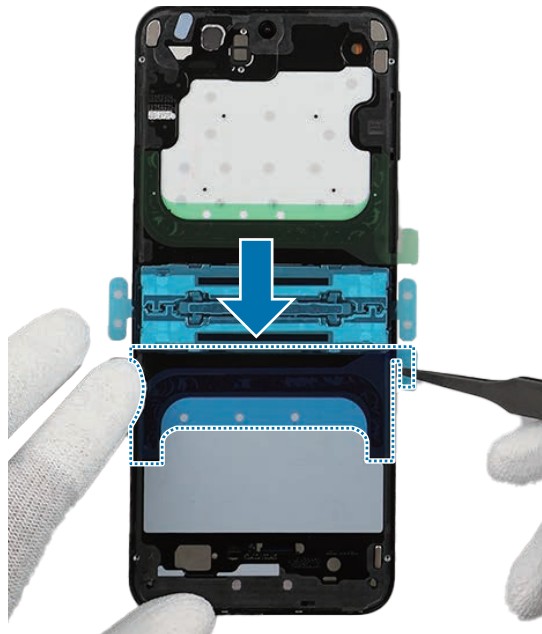


- 4 Remove the transparent film of the new main screen wing plate adhesive tape. Using the tweezers, align the tape precisely on the metal frame and attach it. Press down the tape softly.

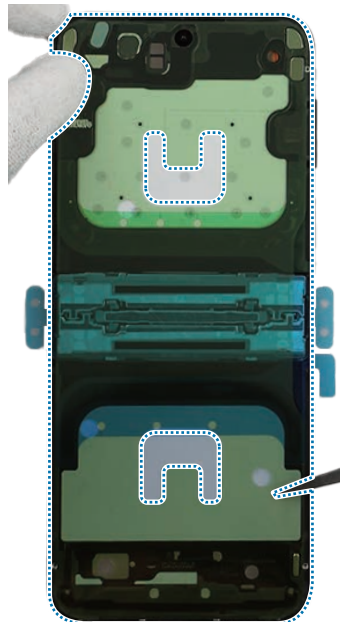
⚠ Be careful not to damage the tape when removing the transparent film.



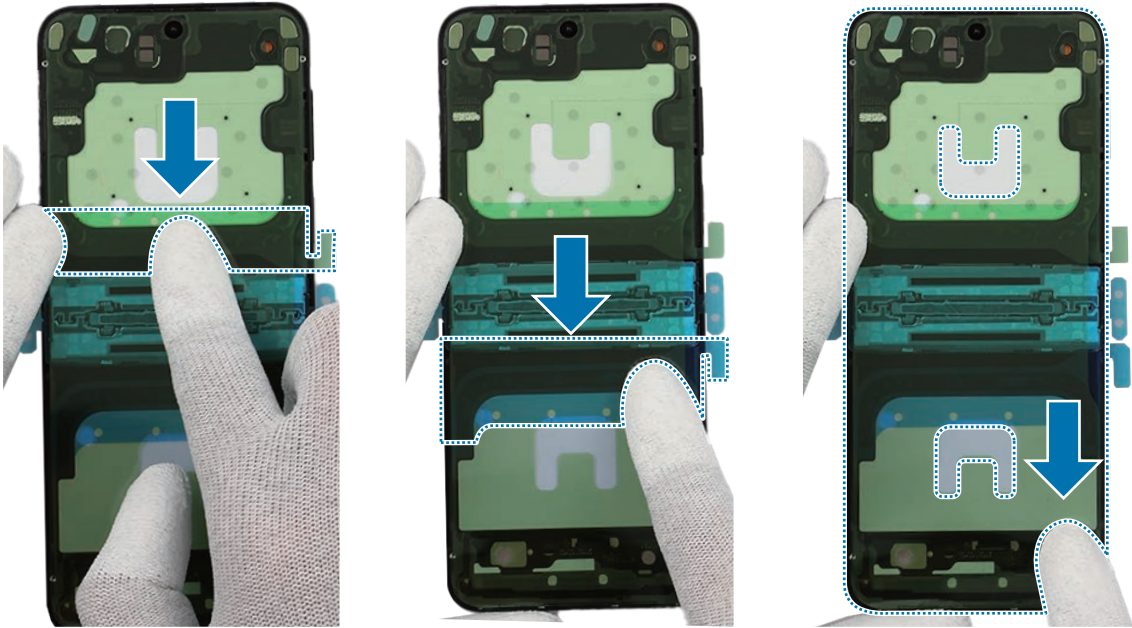
- 5 Remove the transparent film of the new main screen bottom adhesive tape. Using the tweezers, align the tape precisely on the metal frame and attach it. Press down the tape softly.



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




7 Using your fingers, gently press around all tapes to ensure a secure fit.



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



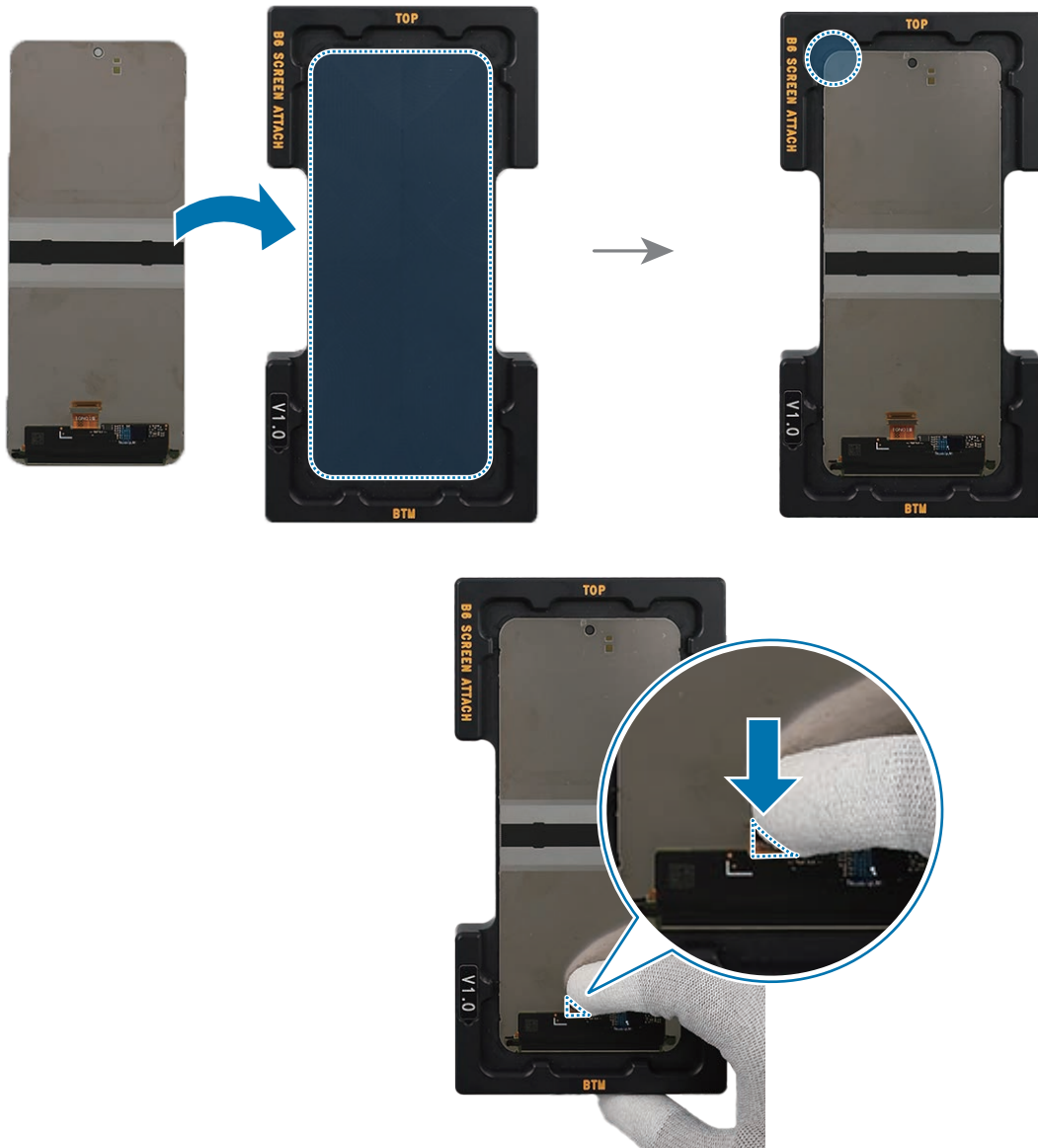
- 9 Remove the main screen attachment tray, main screen bottom press tray, main screen TB press tray, main screen All press tray, deco press tray, and guide pins from the rental tool kit packaging.

-  Before using the main screen TB and All press tray, assemble the trays with the guide pins first.



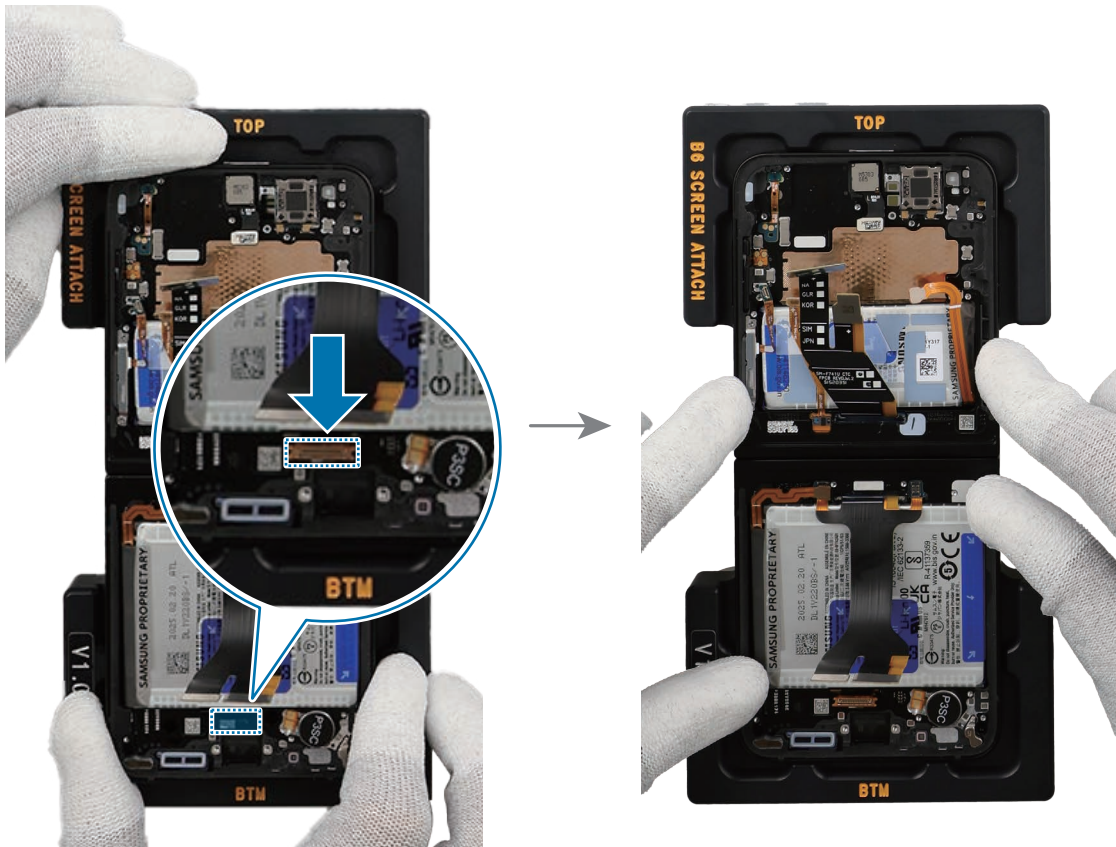
- 10 Prepare the new main screen to install and remove the plastic protector and FPCB cover attached to the back of the screen first. Place the screen to assemble based on the upper left side of the main screen attachment tray. Lift the main screen connector at the bottom of the screen up carefully using your fingers and stand at right angles.

⚠ Be careful not to damage the screen and connector.

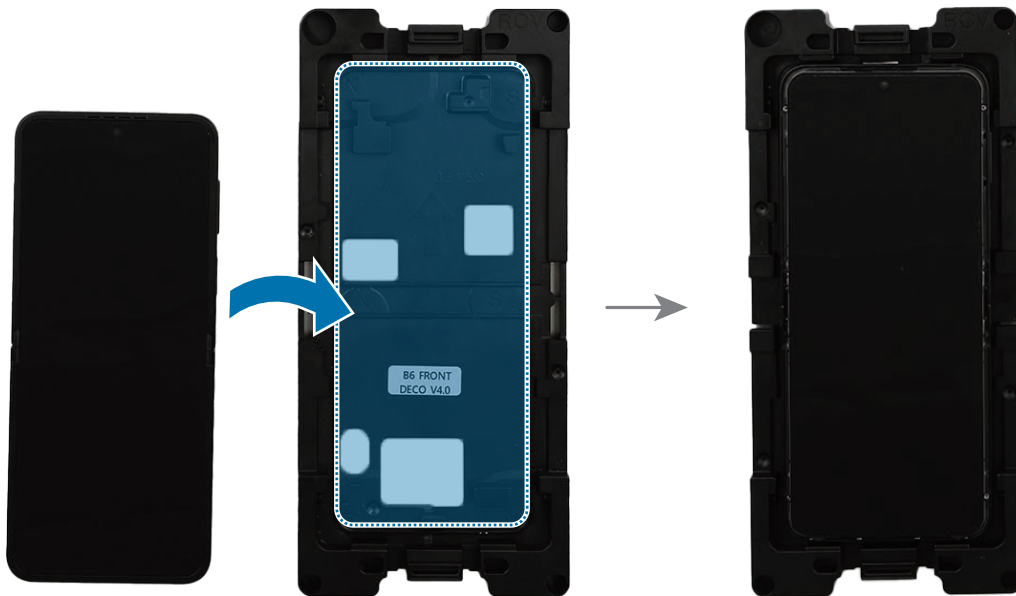


- 11 Carefully insert the stand-up main screen connector into the connector hole located at the bottom of the metal frame. Then, attach the metal frame as a whole with the main screen. Press down the metal frame evenly in order to attach the screen perfectly and remove the device from the tray.





- 12 Align the device with the main screen bottom press tray and place the device into the tray so that the main screen is visible.




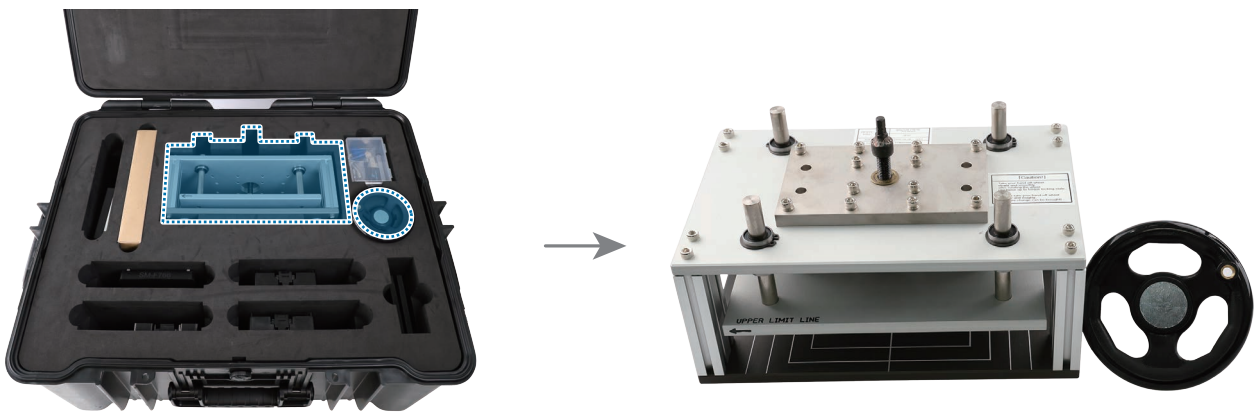
- 13 Carefully place the main screen TB press tray over the bottom tray.



14 Remove the press fixture body and its handle from the rental tool kit packaging.

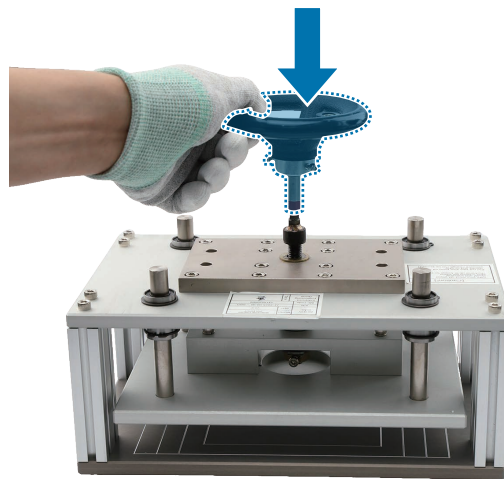
 Keep your hands out of the press fixture to avoid mechanical pinching and injury.

-  This tool is only available to use by the rental of tool kit that contains a complete set of the tools for self repair service.
- Availability of rental service may vary depending on the country and is currently available only in limited countries.
- A rented tool kit packaging may have different packaging than shown.

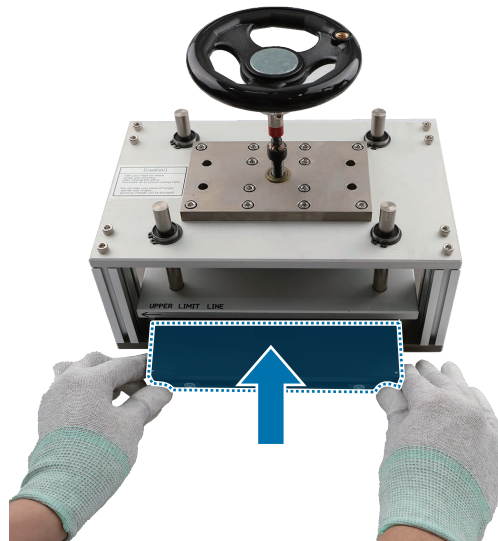


15 Carefully position the torque limit handle horizontally at the top of the press fixture.

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




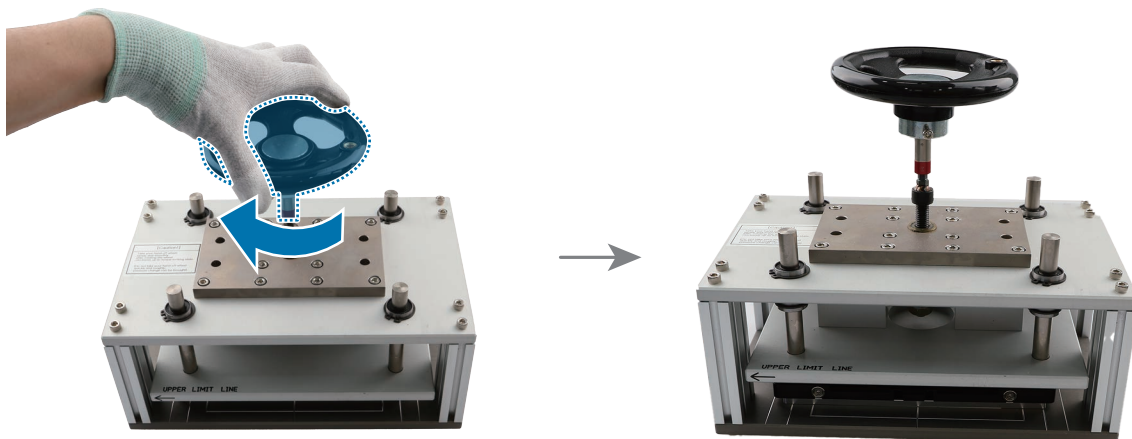
- 16 Position the entire screen press tray with the device horizontally in the centre of the press fixture.



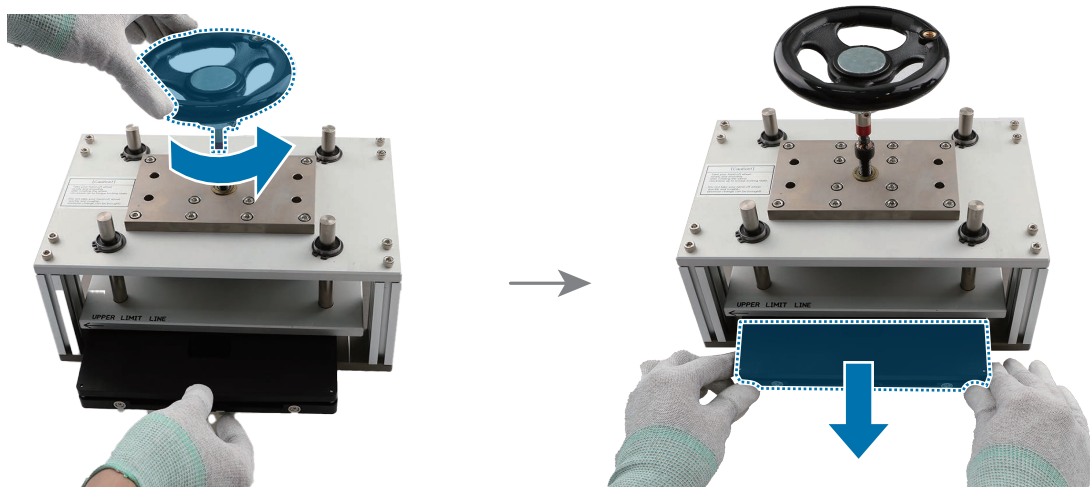
- 17 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 1 minute.

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

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

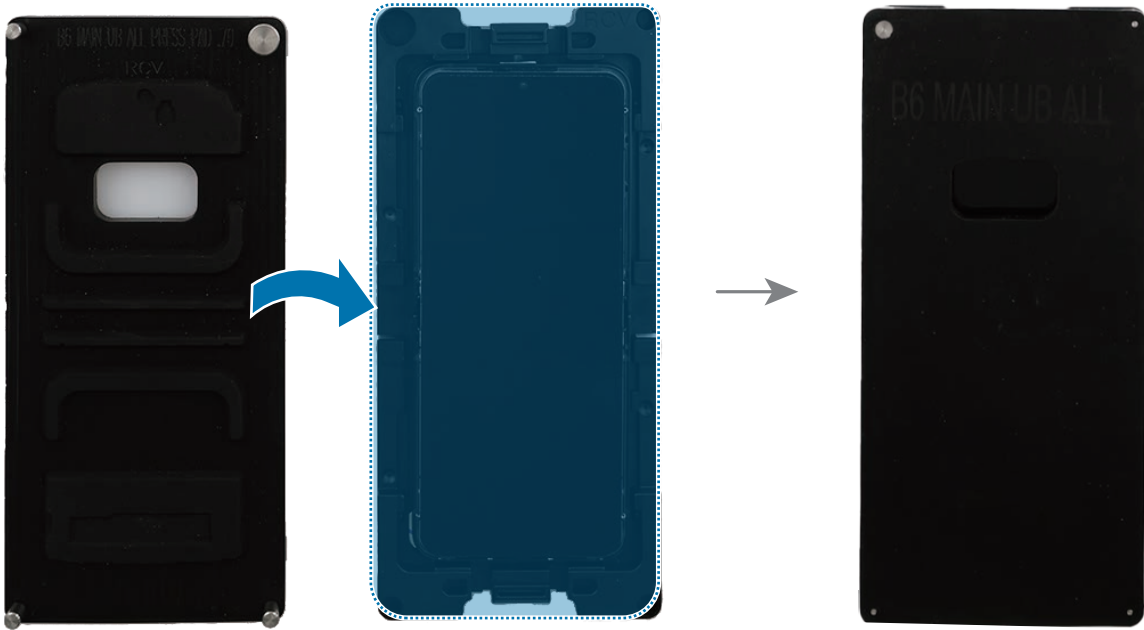


- 18 When the press is completed after 1 minute, rotate the torque limit handle to the anticlockwise and remove the tray from the press fixture.

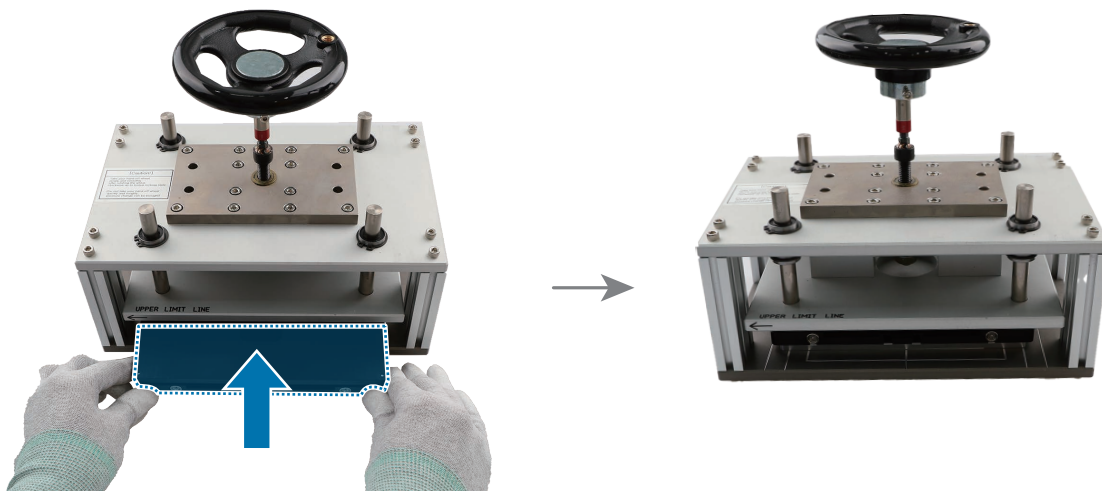


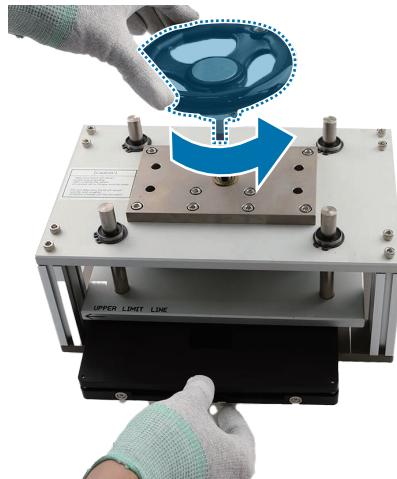
- 19 Remove the main screen TB press tray and place the main screen All press tray again over the bottom tray.





20 Position the entire screen press tray with the device horizontally in the centre of the press fixture once more. In the same way, stay the tray for 1 minute in that press state. When the press is completed, rotate the torque limit handle to the anticlockwise and remove the tray from the press fixture.





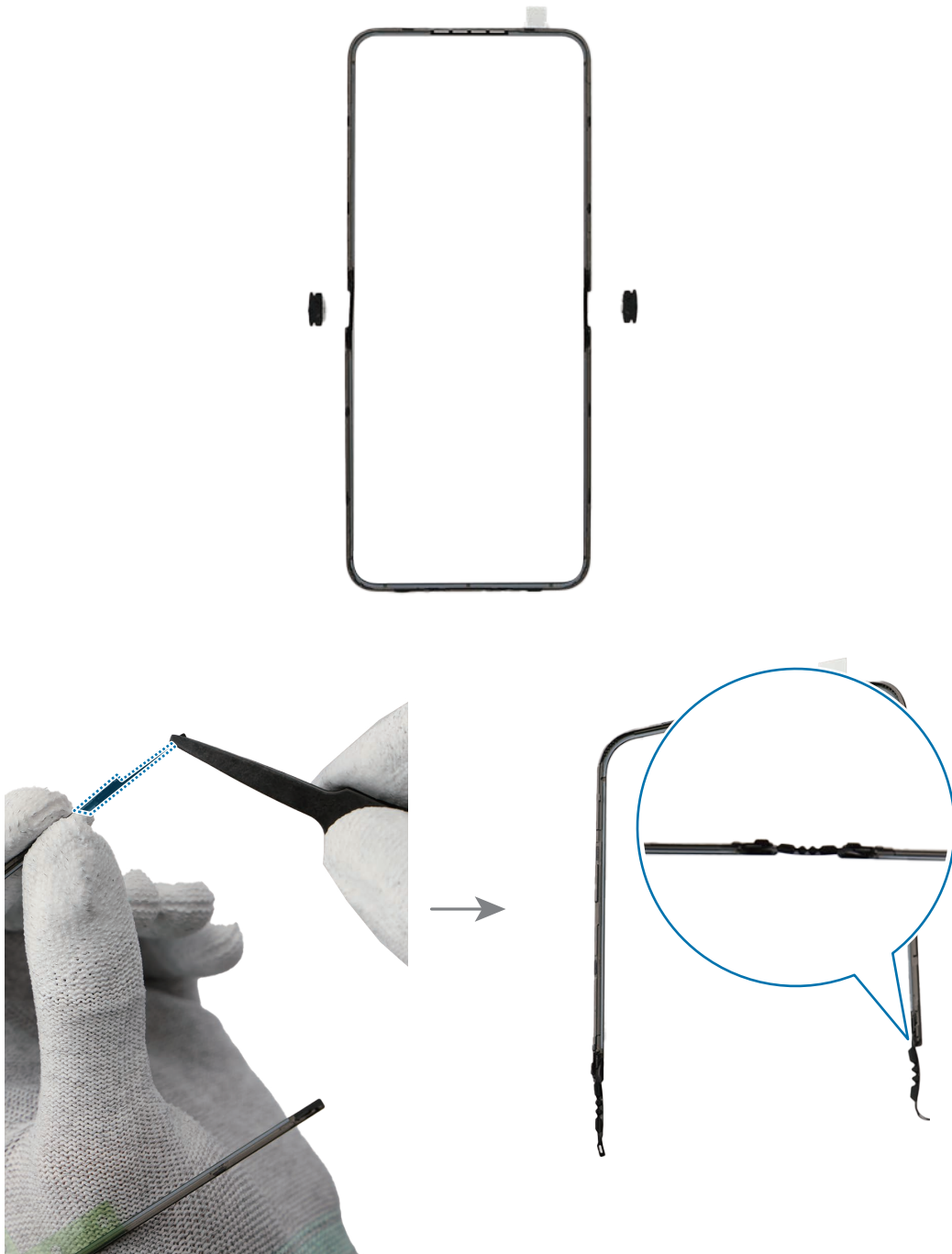
21 Remove the device completely from the tray.



22 Prepare the new top deco (1 ea), bottom deco (1 ea), dust covers (2 ea), and P-caps (2 ea). Using the tweezers and your fingers, hang both rings of the dust cover on the hook at the end of the deco to assemble the dust cover protrusions to face outward.

⚠ As the dust cover and deco can be damaged or torn by excessive force, be careful not to damage them.

👉 The deco with yellow handle is the top deco.





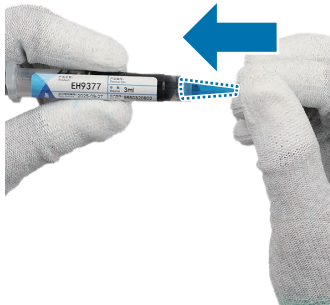
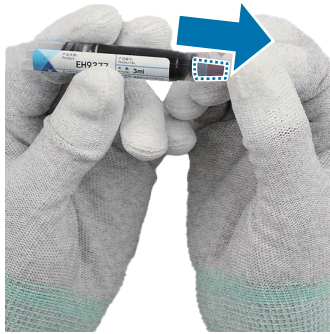
23 Remove the disposable piston and disposable needle from the rental tool kit packaging. Prepare the deco adhesive (EH9377) as well. Open the both end caps of the adhesive and assemble with the needle and piston one by one.



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

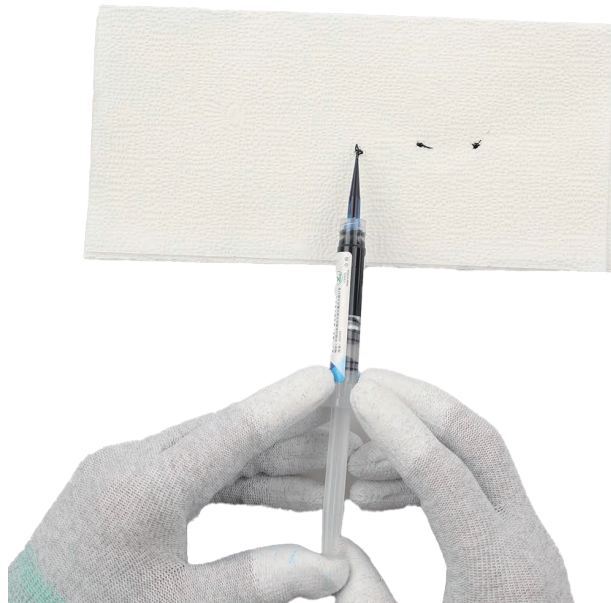


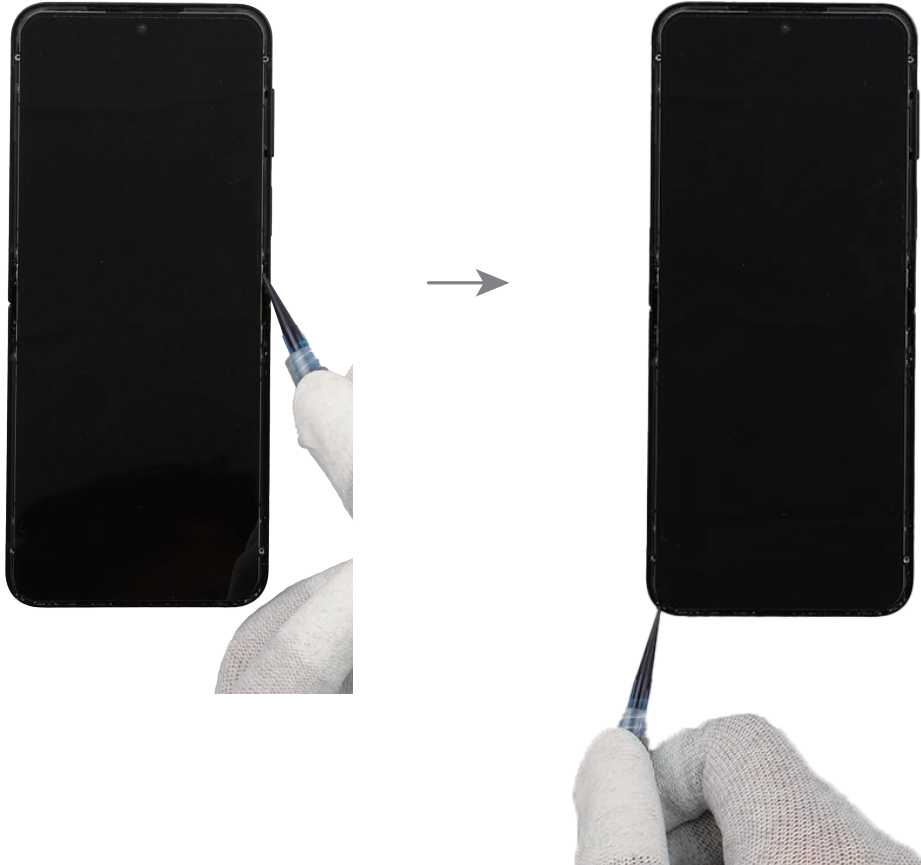
Disassembly and Assembly



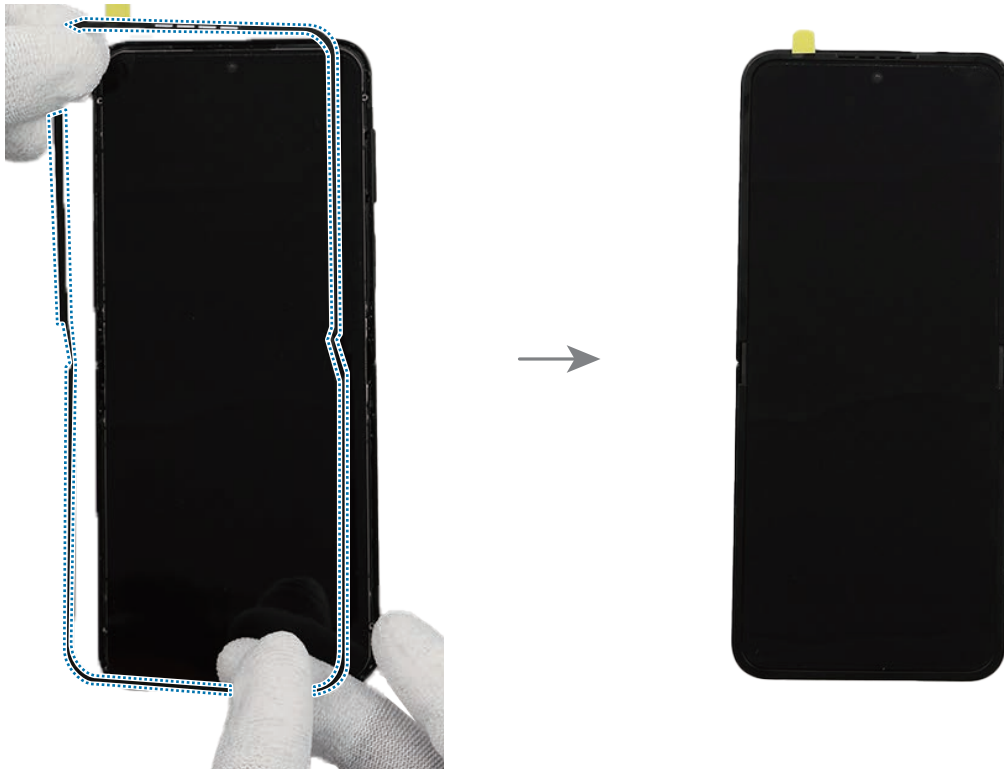
24 Before using the adhesive for the first time, apply it to tissue or paper for about 3 seconds and discard the first part of the adhesive. After then, carefully apply the adhesives on all edges where the deco will be attached.

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

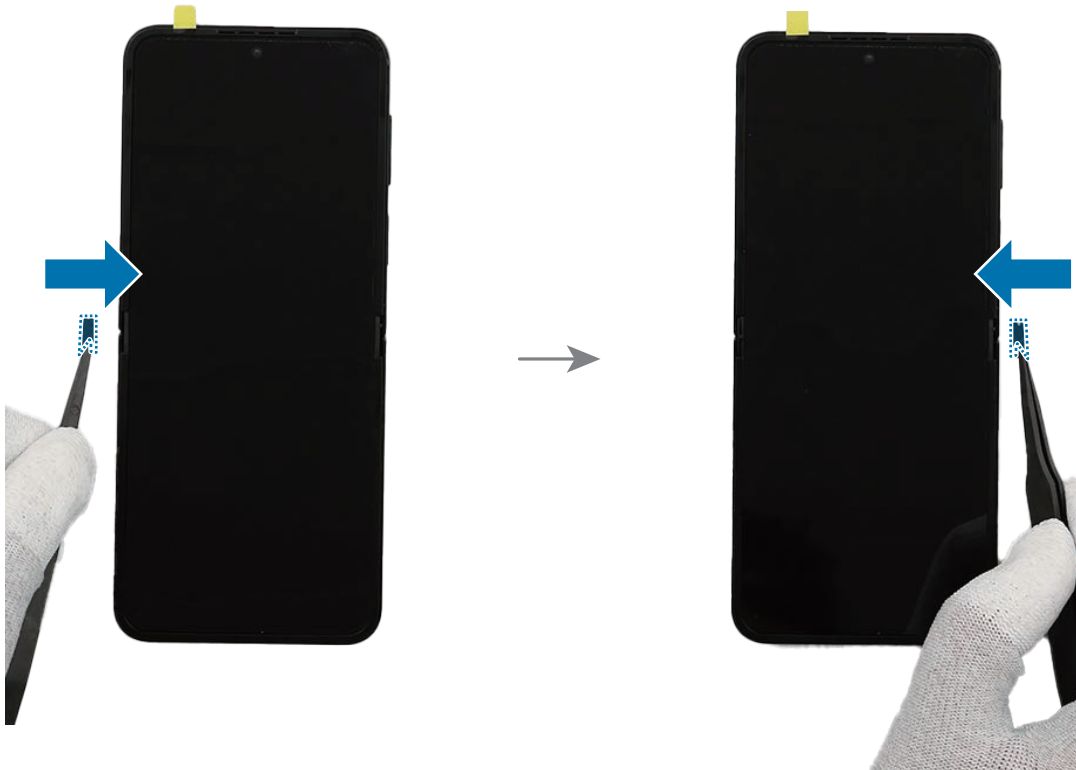




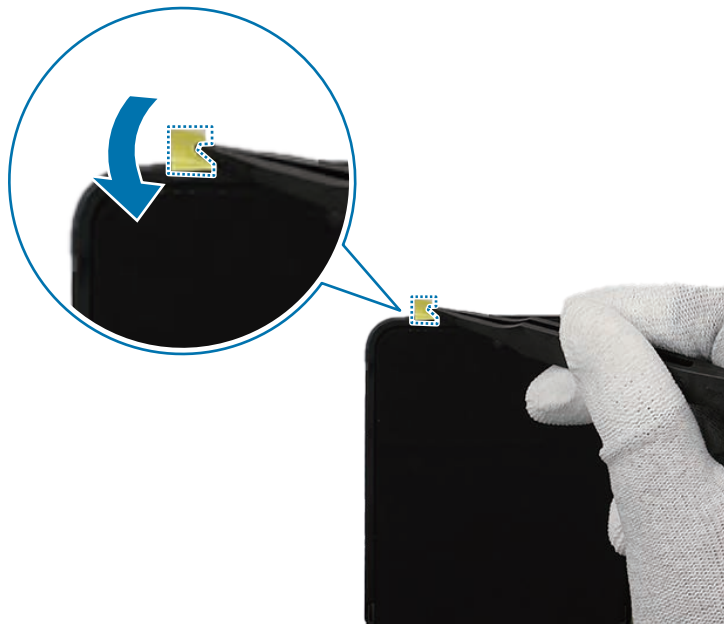
- 25 Align the assembled deco to the edges of the device and place it in the correct location. Press down the edges evenly using your fingers in order to attach the deco and dust cover perfectly.
- ⚠ Be sure to attach the deco within 2 minutes to prevent the applied adhesives from hardening.
 - 👉 The deco with yellow handle is the top deco.



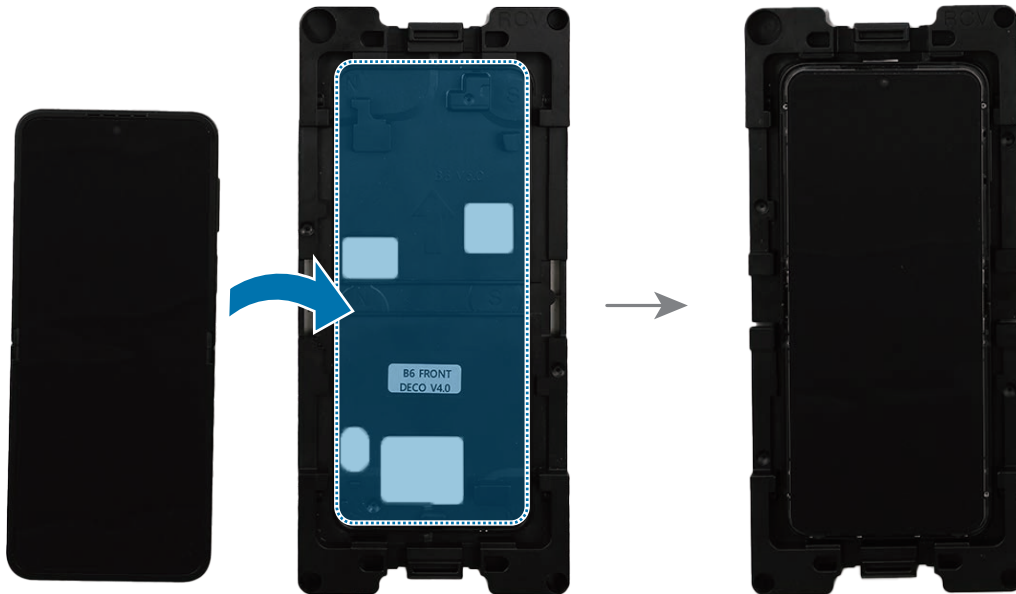
- 26 Using the tweezers, insert the both P-caps on the left and right edge. Make sure to align the protrusion of the dust cover so that they are in close contact with the P-cap surface.



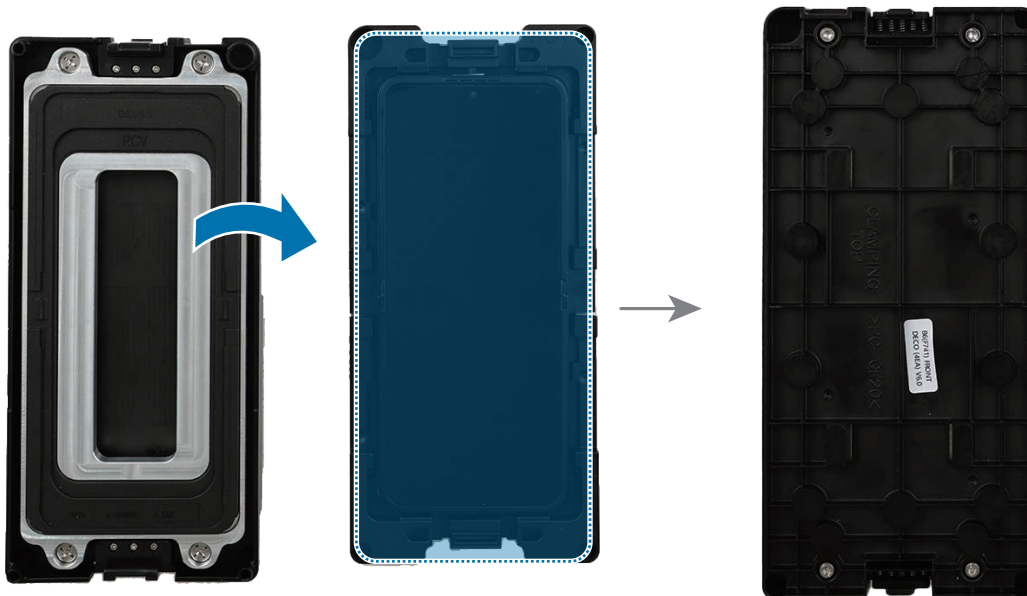
- 27 Gently press the both P-caps to ensure a secure fit and remove the yellow handle from the top deco.



- 28 Align the device with the main screen bottom press tray and place the device into the tray so that the main screen is visible.



- 29 Carefully place the deco press tray over the bottom tray. Keep in that state for about 4 hours so that the assembled deco can be attached well.



30 When the deco is fully attached after the requested 4 hours, remove the device completely from the tray.

⚠ If the applied adhesives overflows, wipe it carefully with a clean and soft cloth.



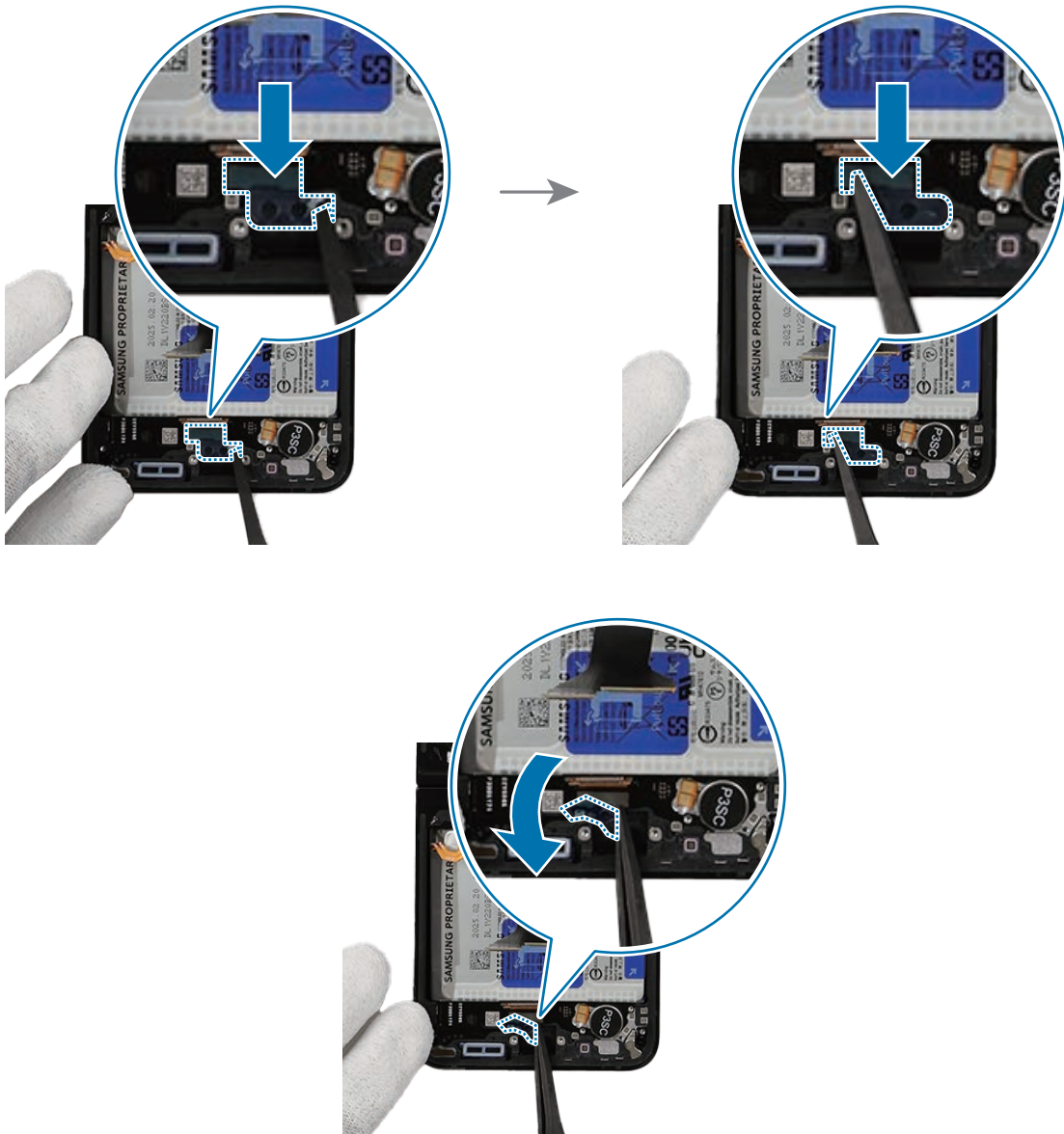
31 Remove the existing main screen connector adhesive tape from the bottom of the metal frame.

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



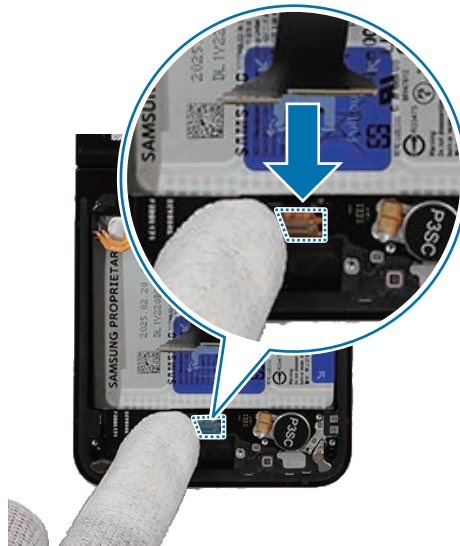
32 Using the tweezers, remove the release film of the new main screen connector adhesive tape (1 ea). Align the tape with its position and attach it accurately. Using the tweezers or your fingers, gently press down the tape so that the tape can be attached well. Remove the release film of the attached tape carefully.

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



33 Using your fingers, carefully attach the main screen connector to the tape.

⚠ Be careful not to damage the device and connector.

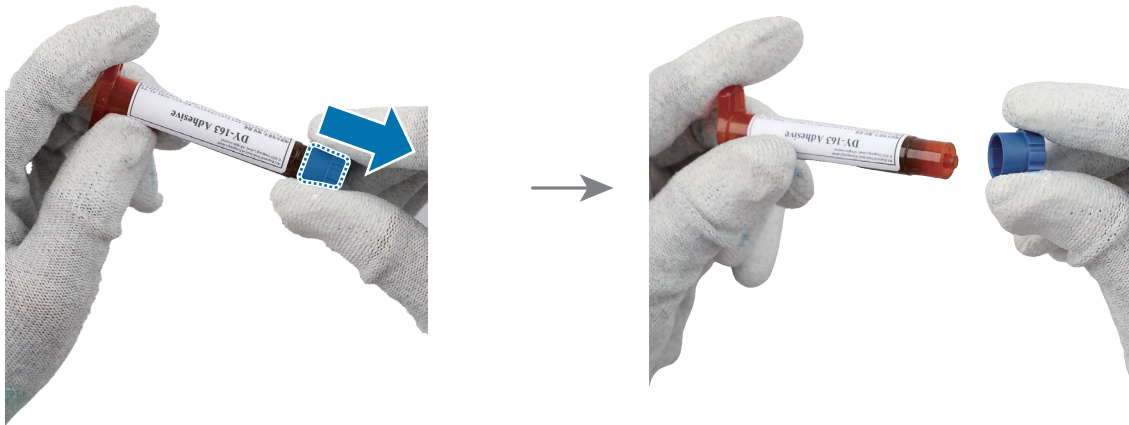
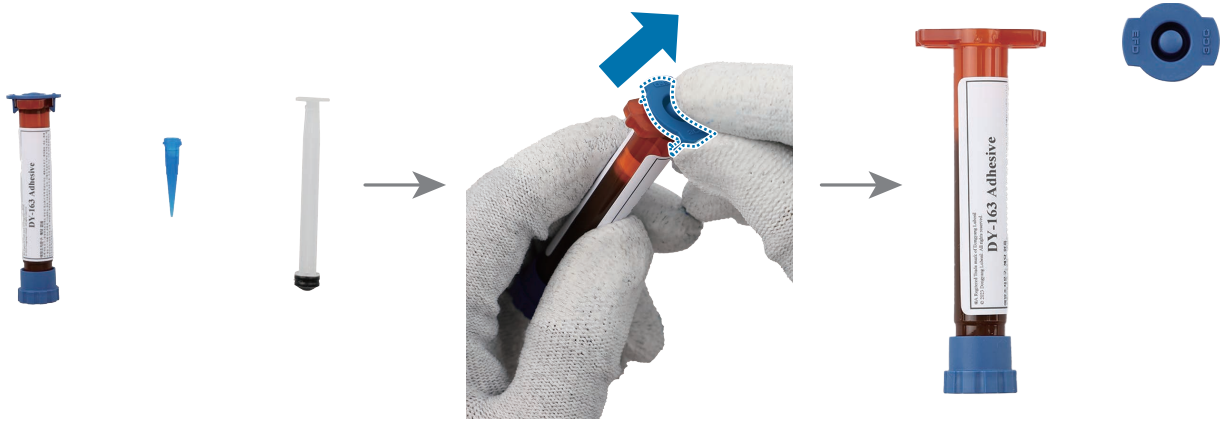


34 Remove the disposable piston and disposable needle from the rental tool kit packaging. Prepare the CIPG adhesive (DY-163) as well. Open the both end caps of the CIPG adhesive and assemble with the needle and piston one by one.

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

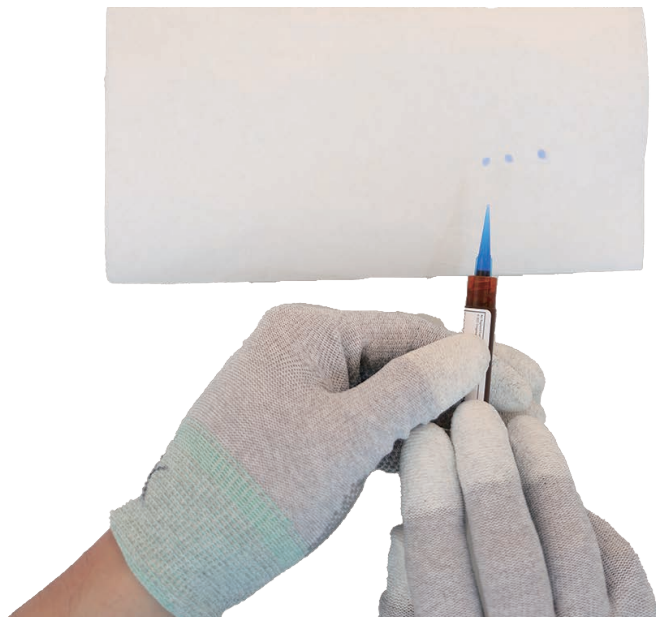


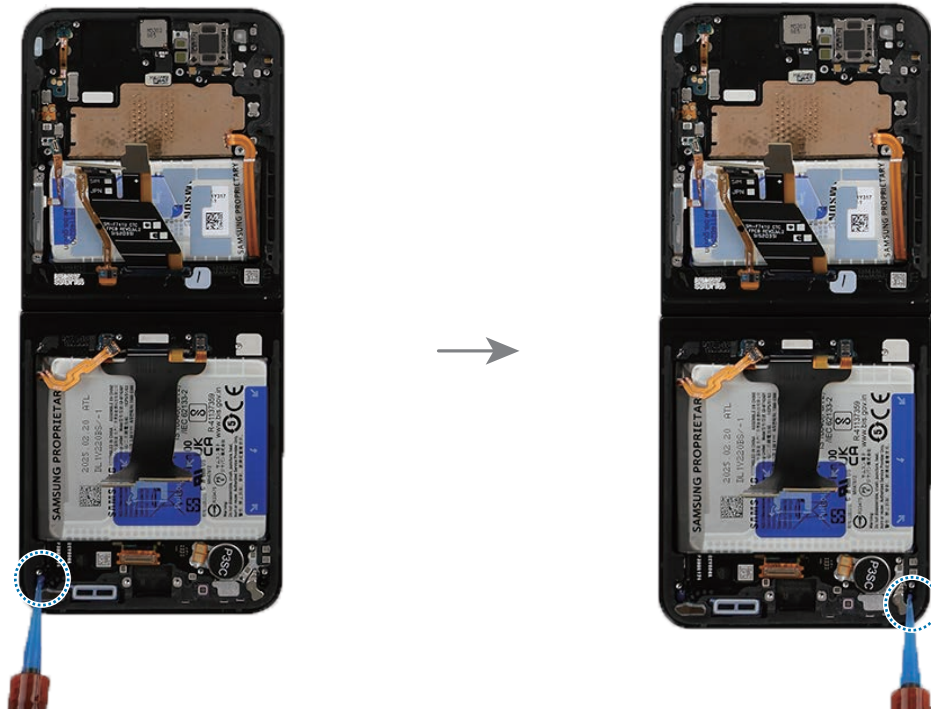
Disassembly and Assembly



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


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





36 Check for the reassembly steps of the [Front Camera](#) and completely reassemble the main board and the upper metal plate.



 Reassemble the [Charging Port and Microphone](#), [Back Cover](#), [Cover Screen](#), and [SIM Card Tray](#) one by one to complete assembly.

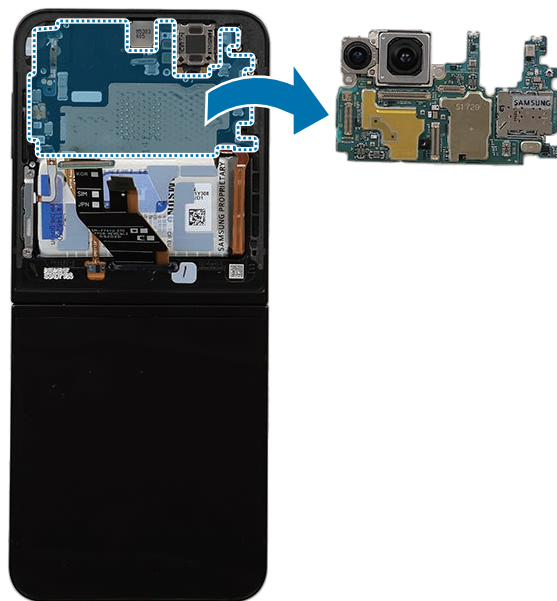
Battery

- ⚠ • The 2 batteries should always be replaced at the same time.
- The separated battery may be damaged. Do not use it again.


Disassembly


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

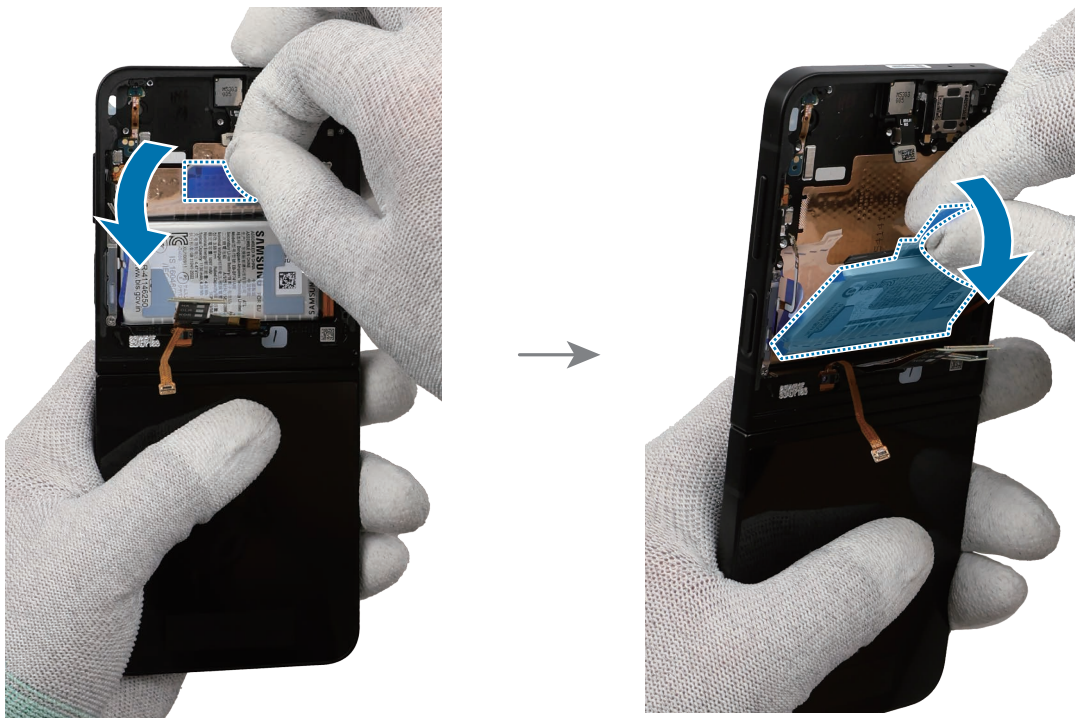
- 1 Check for the disassembly steps of the [Front Camera](#) and completely separate the main board with the rear cameras.

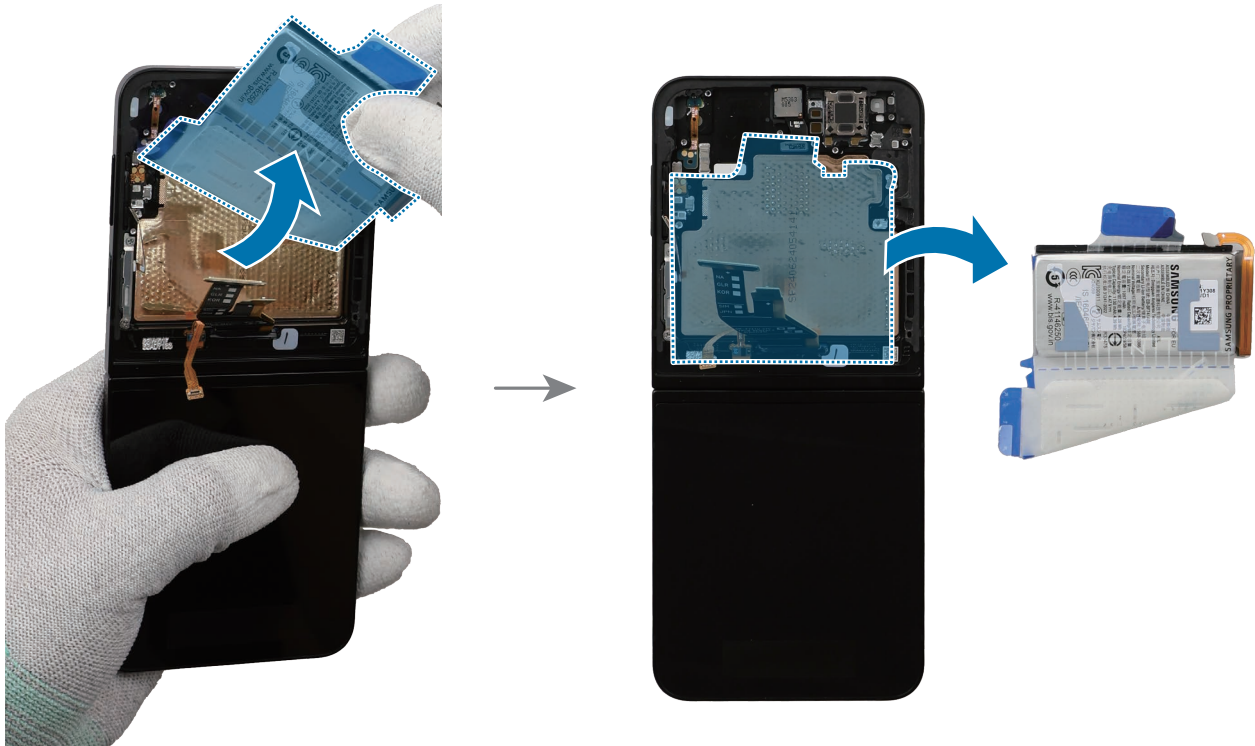


2 Using your fingers, grab the tape attached to the left side of the main battery and separate it carefully from the battery. Then, grab the tape handle attached to the upper side of the main battery with your fingers and pull it up carefully. Slowly lift up the main battery from the device and remove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

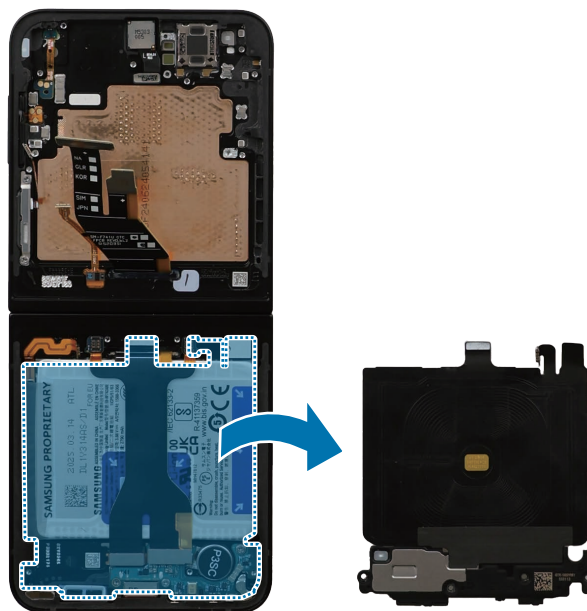
 The separated battery may be damaged. Do not use it again.

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





- 3 To remove the sub battery, disassemble the [Back Cover](#) first. Then, check for the disassembly steps of the [Charging Port and Microphone](#) and separate the wireless charging module and speaker module simultaneously from the device.



4 Using the tweezers, disconnect the 2 FPCB cable connectors from the charging port.

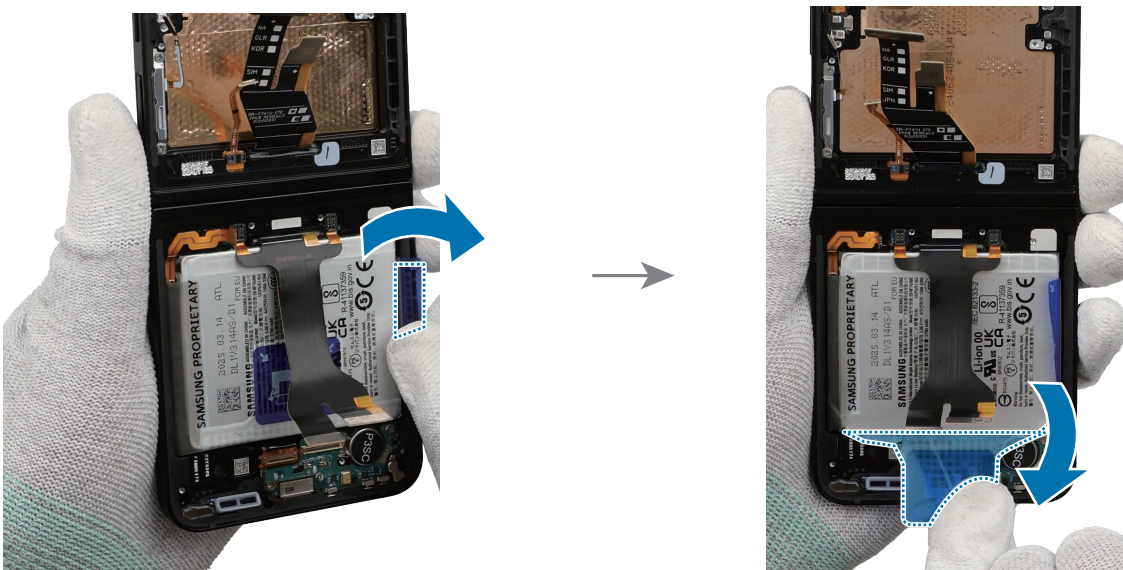
⚠ Be careful not to damage the near components.



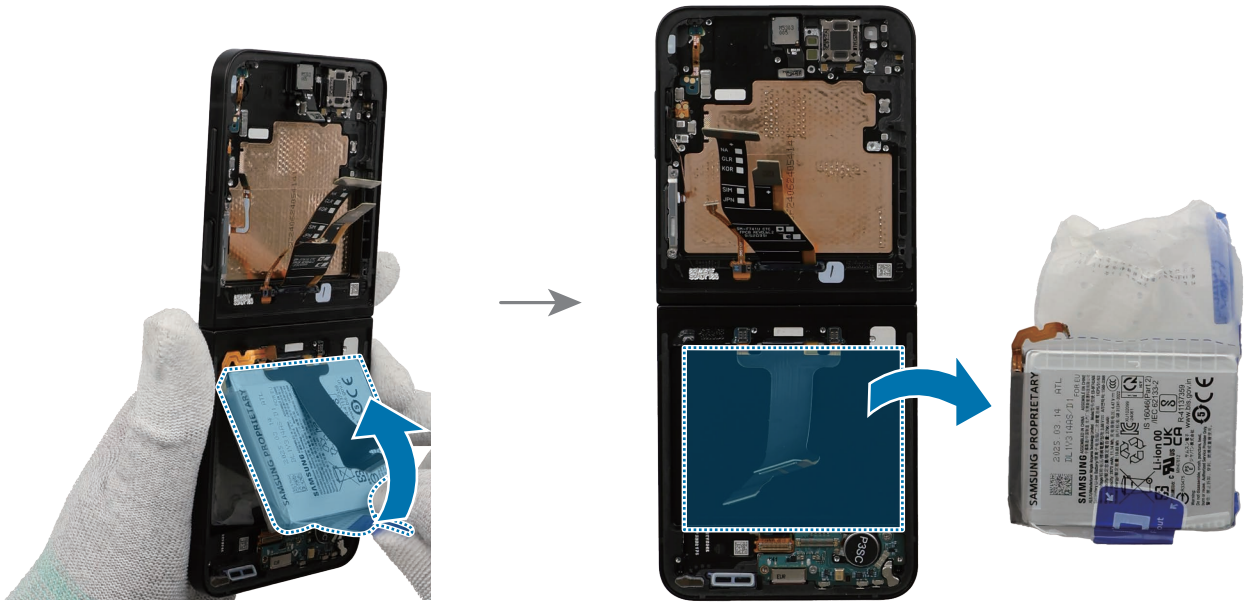
5 Using your fingers, grab the tape attached to the right side of the sub battery and separate it carefully from the battery. Then, grab the tape handle attached to the lower side of the sub battery with your fingers and pull it up carefully. Slowly lift up the sub battery from the device and remove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

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

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

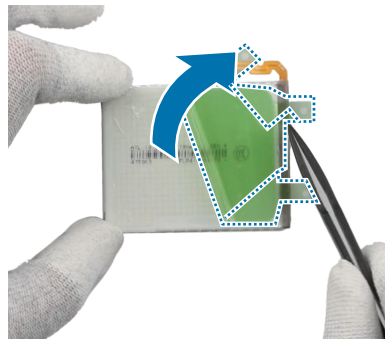


Disassembly and Assembly





Reassembly

- ⚠ • The 2 batteries should always be replaced at the same time.
 - Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.
- 1 Using the tweezers or your fingers, carefully remove all release films attached to the new sub battery.
- ⚠ Be careful not to damage the battery.



2 With the battery connector on the left, carefully place the sub battery based on the upper left side of the battery. Then, assemble the sub battery to the exact position of the device frame using your fingers.

 Be careful not to damage the battery.

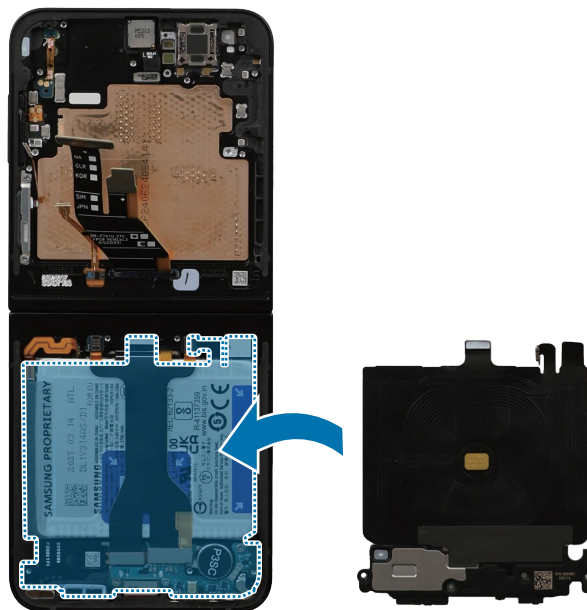
-  • The FPCB cables and connectors have to be positioned outside so as not to interfere when assembling the battery.
- Be careful not to damage the near components.

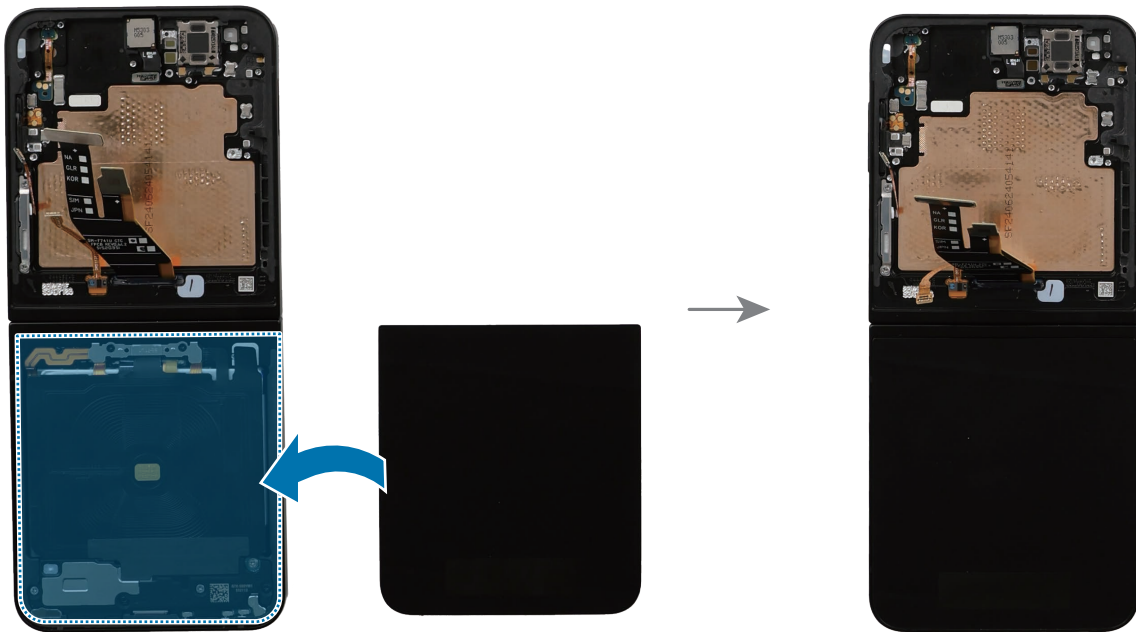


- 3 Press the sub battery with your fingers softly so that the battery can be attached well.



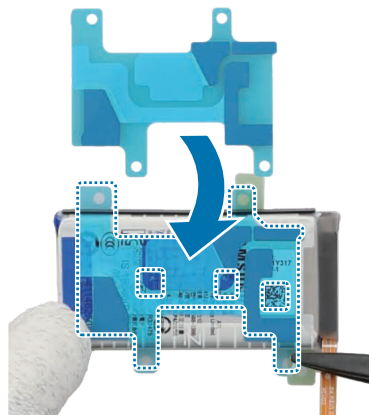
- 4 Check for the steps of the [Battery Press](#). You can further press the fully assembled battery using the appropriate tool.
- 5 Check for the reassembly steps of the [Charging Port and Microphone](#) and completely reassemble the wireless charging module and speaker module to the device. Then, assemble the [Back Cover](#) completely.



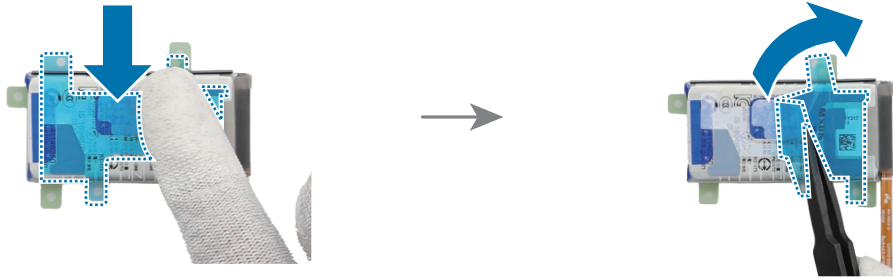


6 Using the tweezers, align the centre sponge of the new main battery sponge tape with the new main battery well and attach it accurately.

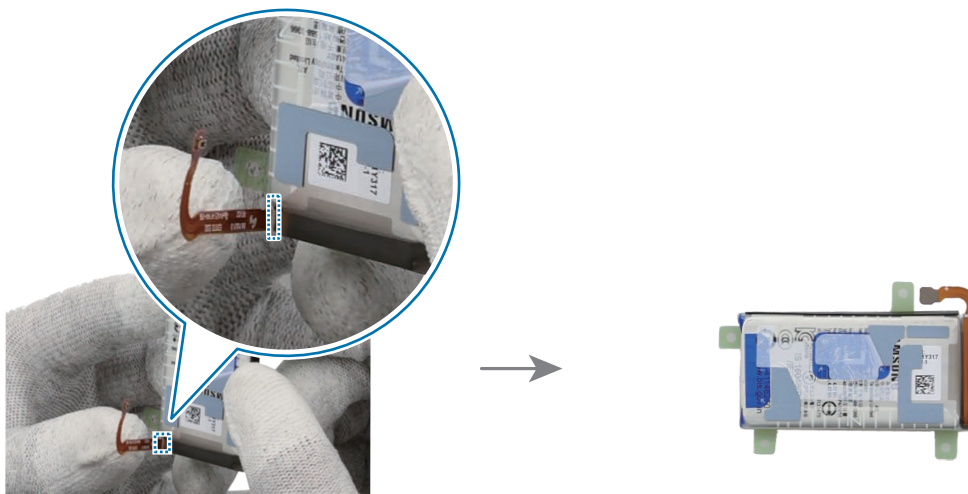
- ⚠ Be careful not to damage the battery.
- ⚠ When attaching the new sponge tape, be careful to expose the bottom ends of the blue tape and the battery barcode.



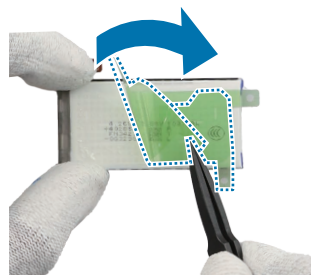
- 7 Gently press down the new sponge tape with your fingers so that the tape can be attached well. Then, remove the release film from the main battery carefully.




- 8 Fold the battery FPCB cable completely based on the white line.




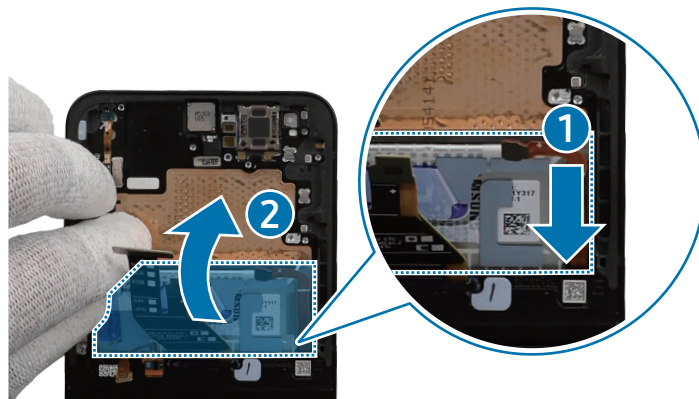
- 9 Using the tweezers or your fingers, carefully remove all release films attached to the new main battery.



10 With the battery connector on the right, carefully place the main battery based on the lower side of the battery. Then, assemble the main battery to the exact position of the device frame using your fingers.

 Be careful not to damage the battery.

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



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



- 12 Check for the steps of the [Battery Press](#). You can further press the fully assembled battery using the appropriate tool.
- 13 Check for the reassembly steps of the [Front Camera](#) and completely reassemble the main board and the upper metal plate.



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



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

Hinge

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

Disassembly

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

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



- 2 Check for the disassembly steps of the [Main Screen](#) and completely separate the top deco along the edge from the device.



- 3 Check for the disassembly steps of the [Main Screen](#) and completely separate the bottom deco along the edge from the device.



4 Set up the main screen removal fixture and verify the power is set to match the rated input of the power supply and verify the power cable is in good condition, not frayed or torn. Plug the fixture into wall power using the approved power code for region of use. Rotate the handle so that the device can be placed on the fixture and adjust the mounting part according to the length of the device. Put the device on the fixture with the main screen facing up and rotate the handle so that the device is fully mounted. Close the cover of the fixture and push the **Start** button on the front of the unit, and then check the green LCD is turned on. The main screen is slowly separated as the cover rises automatically. When the main screen is completely disassembled, press the **Stop** button twice and remove the separated screen and the metal frame from the fixture.



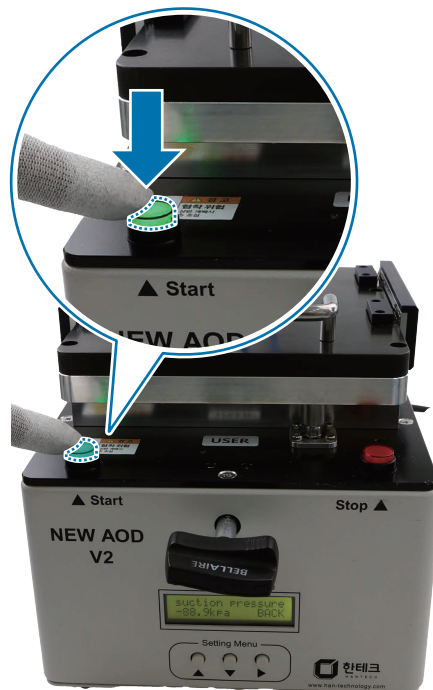
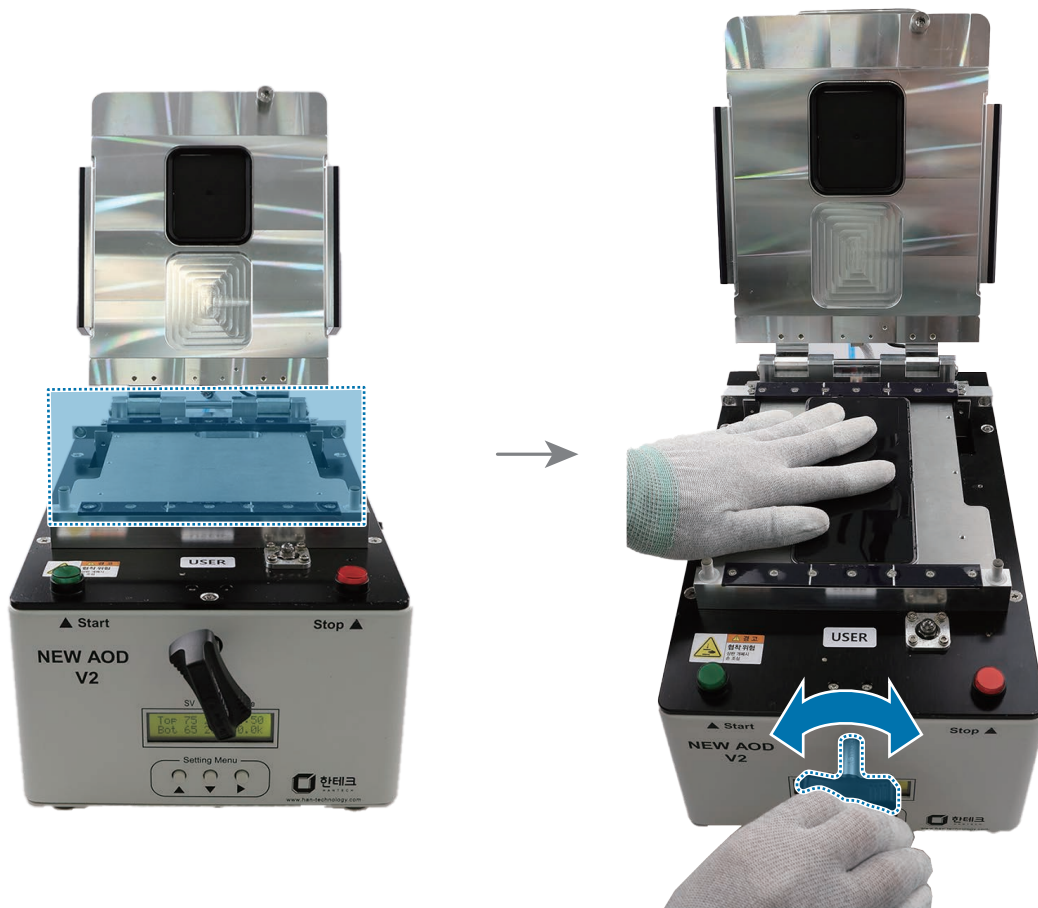
- Keep your hands out of main fixture to avoid mechanical pinching, electrical interconnects and hot surfaces.
- Follow the main screen removal fixture's instructions.
- Any and all liquids, hazardous, flammable or not, should be kept at a distance.

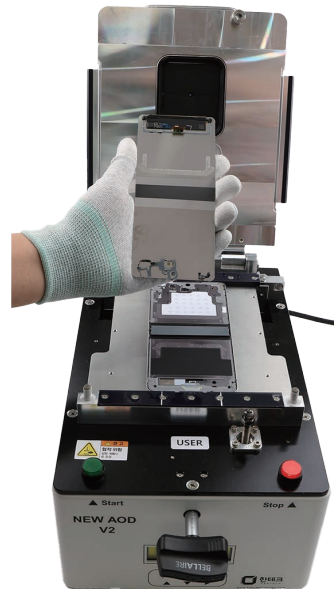
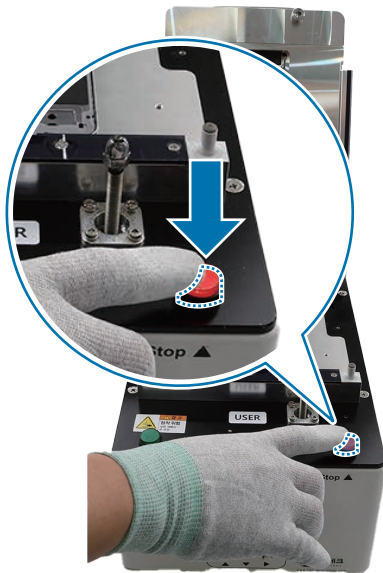
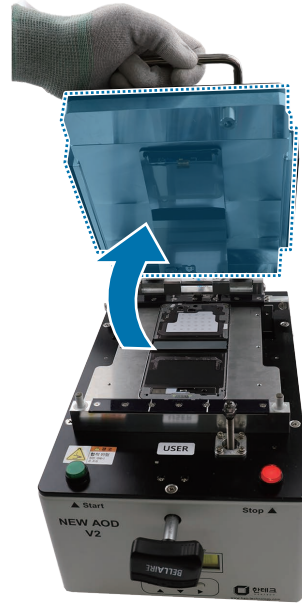
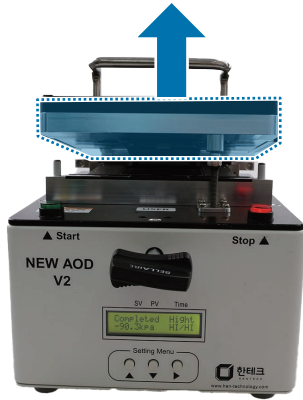


You need to reuse the separated main screen. Be careful not to damage the screen.



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

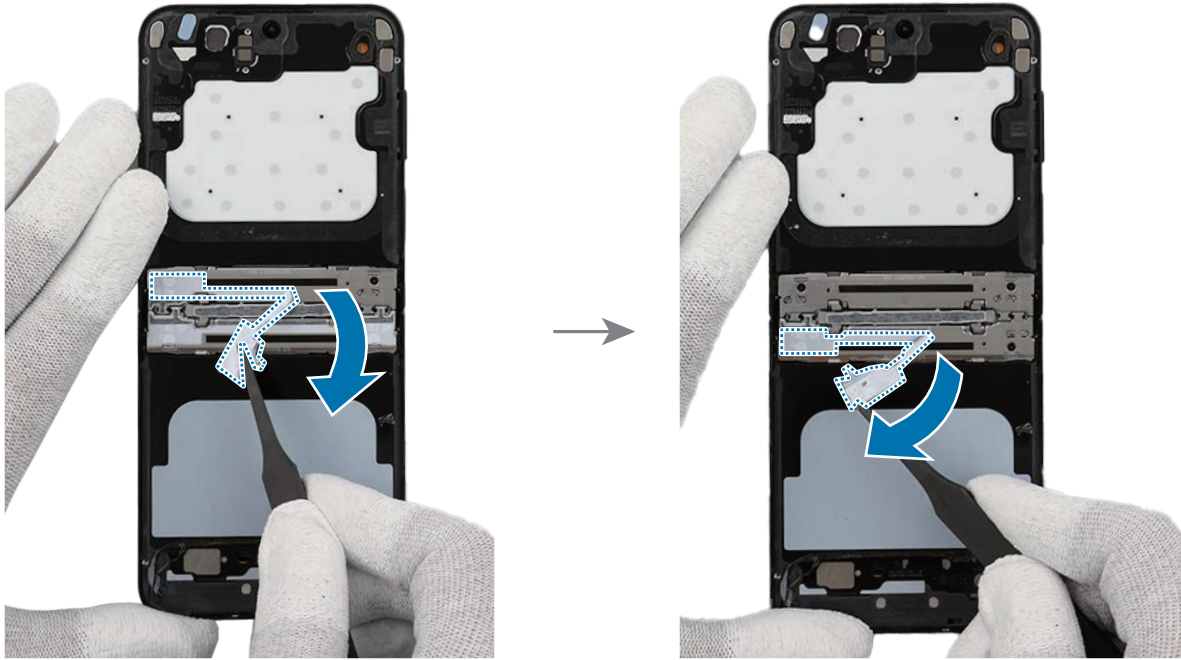






5 Using the tweezers, completely remove the existing wing plate tape and the centre bar sheet.

⚠ Be careful not to damage the device.



6 Check the 4 screws on the wing plate and remove them using a cross-head screwdriver.

⚠ Be careful not to damage the near components.

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




7 Using the tweezers, remove the top wing plate from the metal frame.

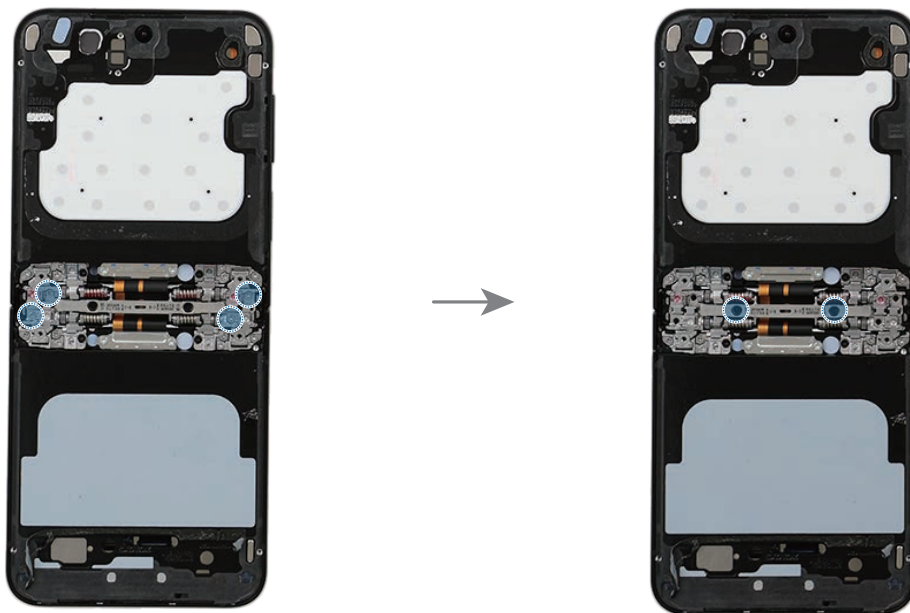


- 8 Using the tweezers, remove the bottom wing plate from the metal frame.

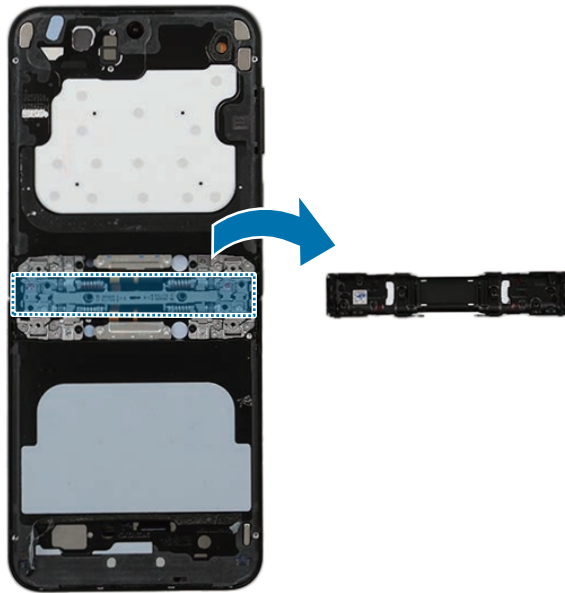
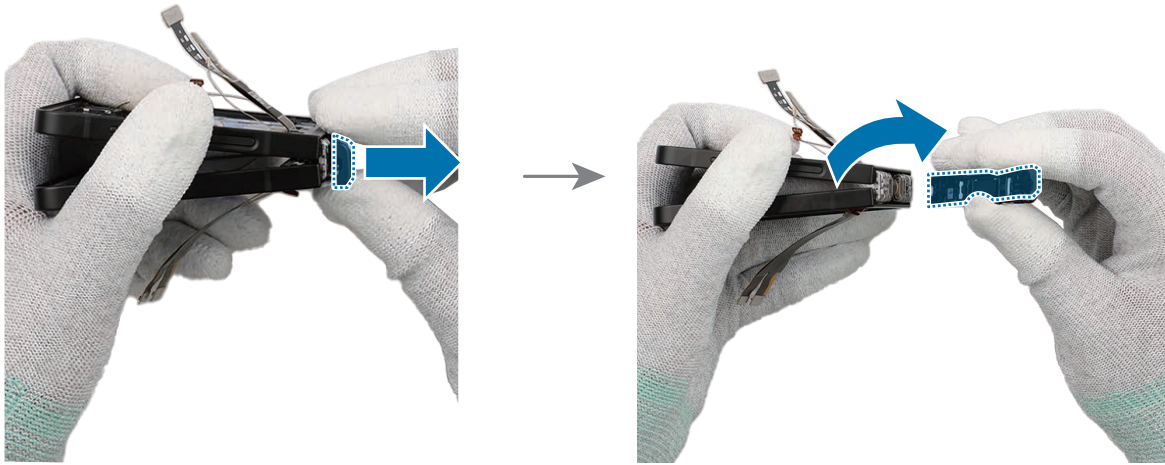


- 9 Check the 4 screws (Silver) and the 2 screws (Black) on the hinge housing. Remove them using a cross-head screwdriver.


-  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.

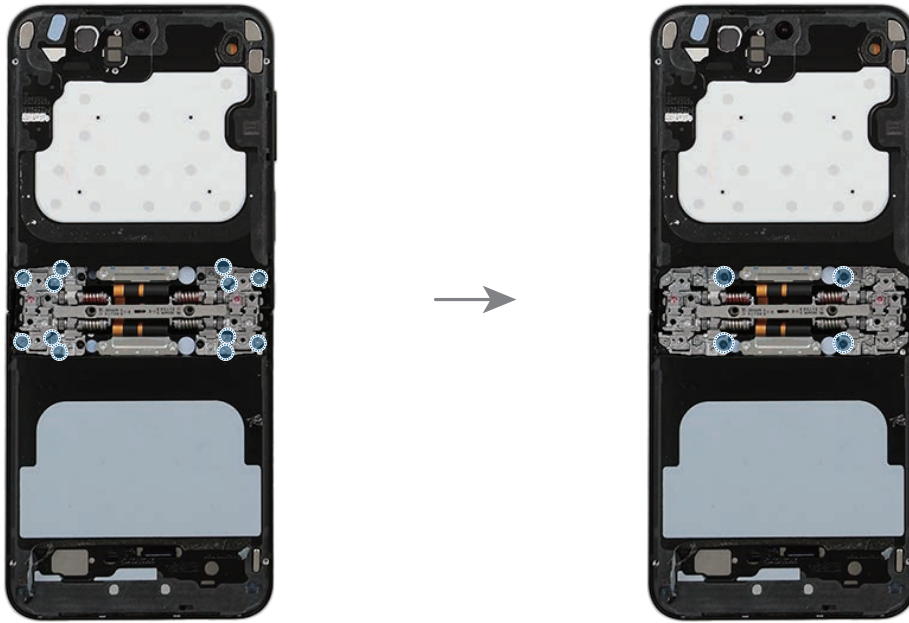


- 10 Fold the device and remove the hinge housing from the metal frame using your fingers.

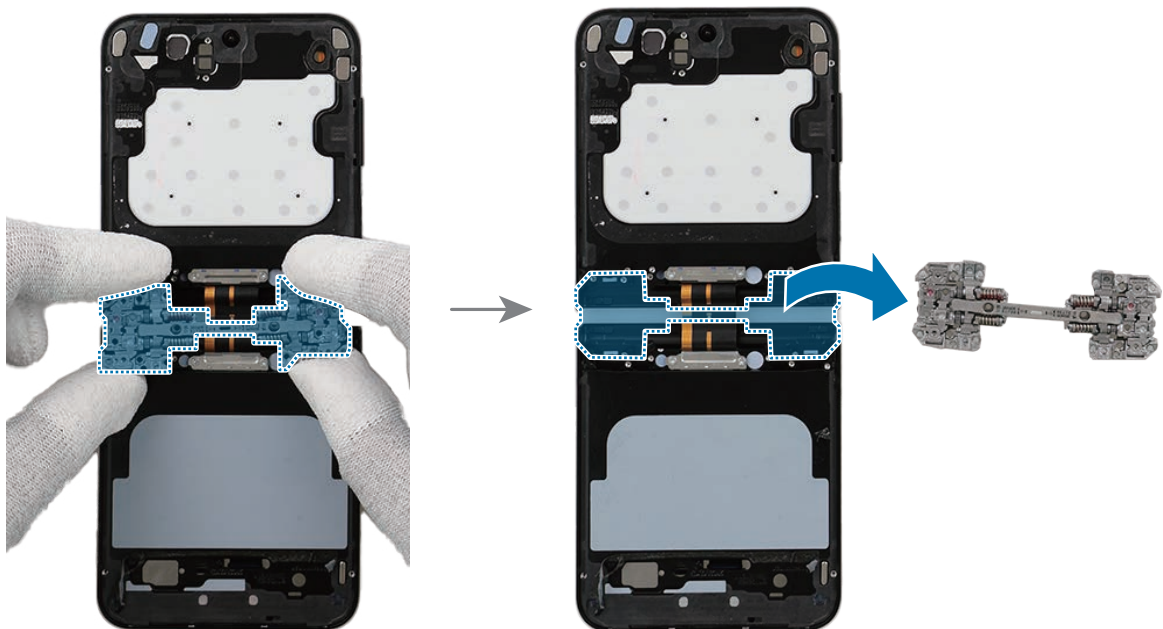


11 Check the 12 screws (Silver) and the 4 screws (Black) on the hinge. Remove them using a cross-head screwdriver.


 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.




12 Using your fingers, carefully remove the hinge module from the metal frame.

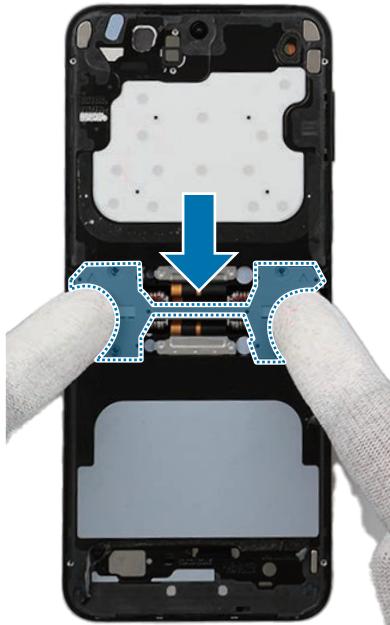


Reassembly

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

1 Using your fingers, assemble the new hinge module to the metal frame and press down on it in its position.

 Be careful not to damage the device and near components.



- 2 Check the screw 3508 (Silver, 4 ea) on the hinge and fasten them using a cross-head screwdriver.

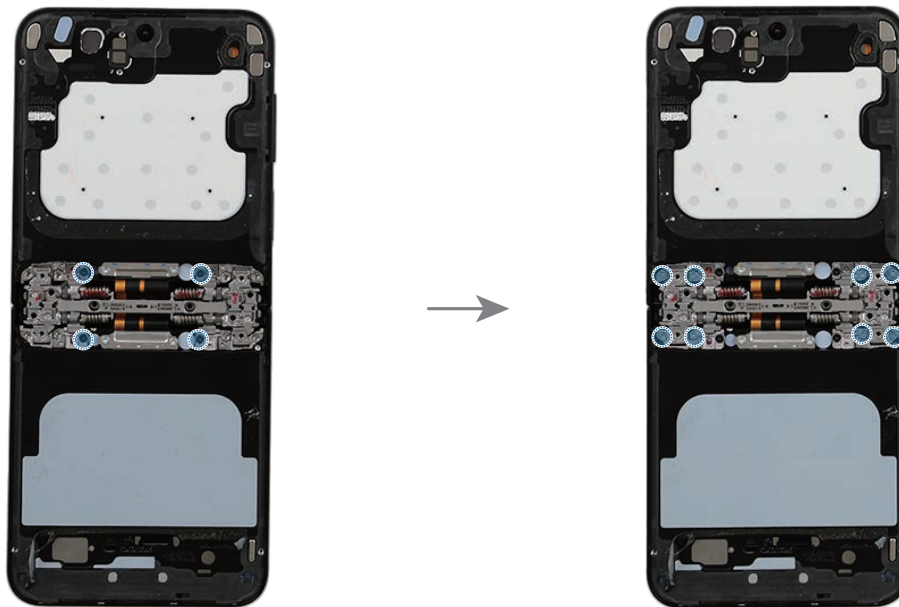


- 3 Using your fingers, remove the cover from the installed hinge.

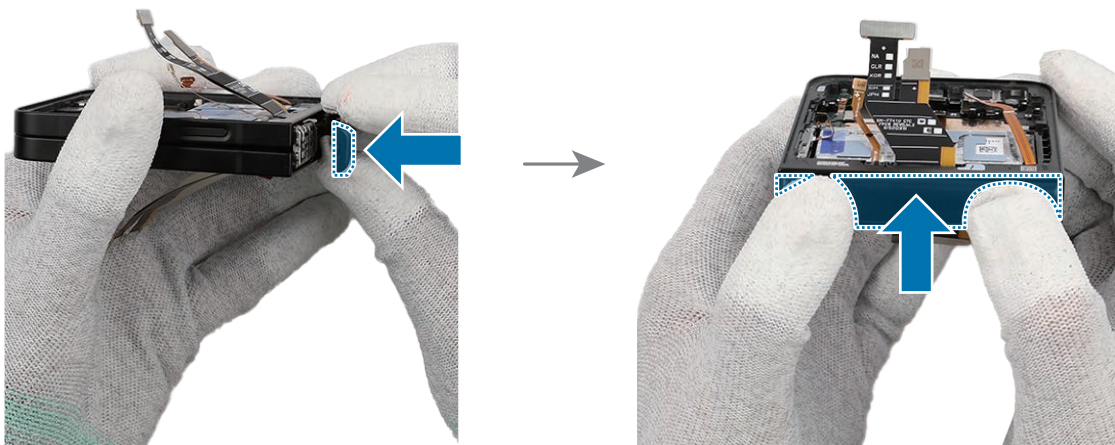


4 Check the screw 3509 (Black, 4 ea) on the hinge and fasten them using a cross-head screwdriver. Then, check the screw 3508 (Silver, 8 ea) on the hinge and fasten them using a cross-head screwdriver.

- ❗ • Be careful not to damage the near components.
- Be careful not to fasten the screw to the wrong position.
- Be careful not to mix the screws.

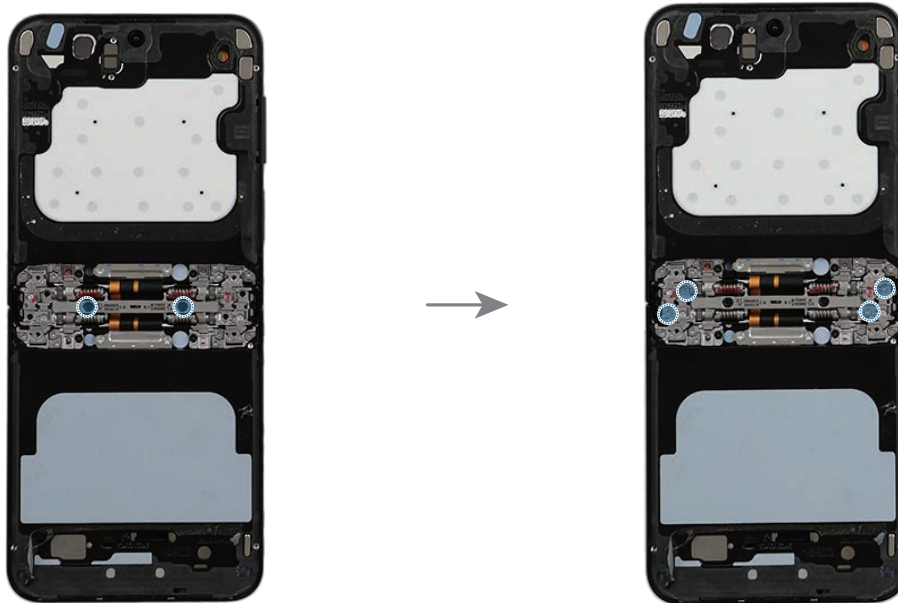


5 Fold the device and assemble the hinge housing to the metal frame using your fingers. Gently press it down to ensure a secure fit.



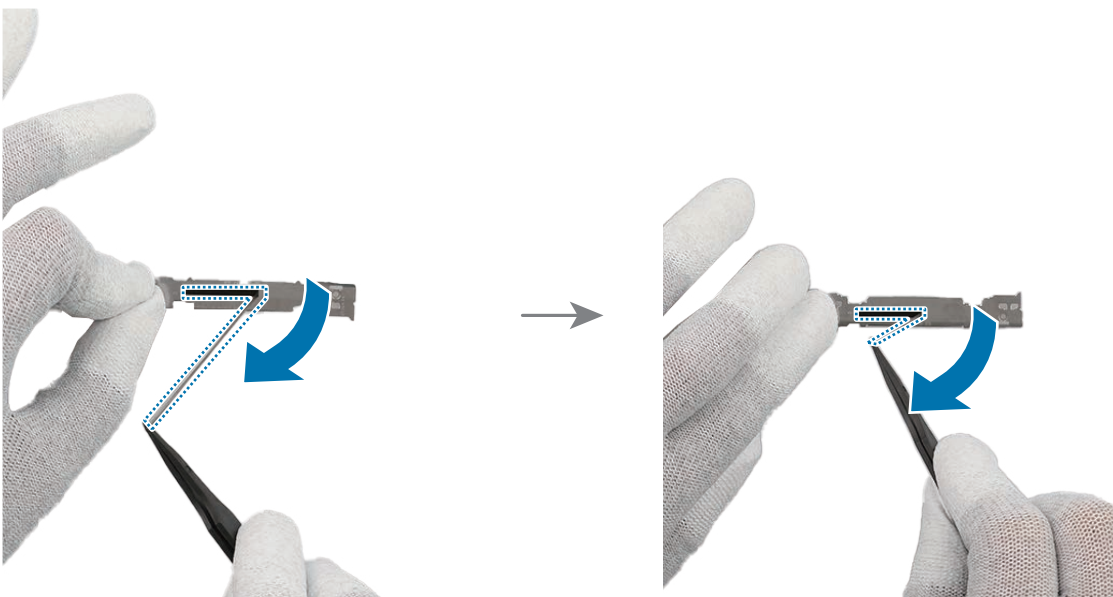
6 Check the screw 3509 (Black, 2 ea) on the hinge housing and fasten them using a cross-head screwdriver. Then, check the screw 3508 (Silver, 4 ea) on the hinge housing and fasten them using a cross-head screwdriver.

- ⚠ • Be careful not to damage the near components.
- Be careful not to fasten the screw to the wrong position.
- Be careful not to mix the screws.

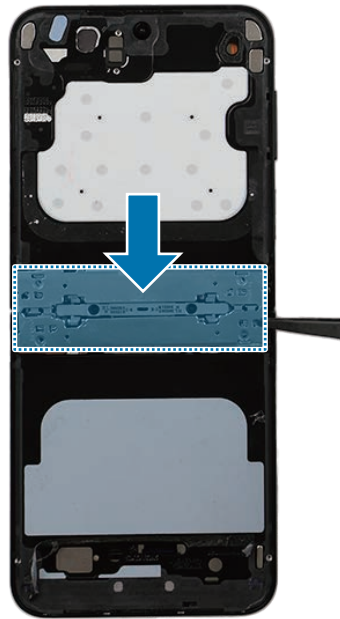


7 Remove the existing adhesive from the separated top and bottom wing plates.

- 🛠 If only the wing plate is replaced alone, this step is not required.



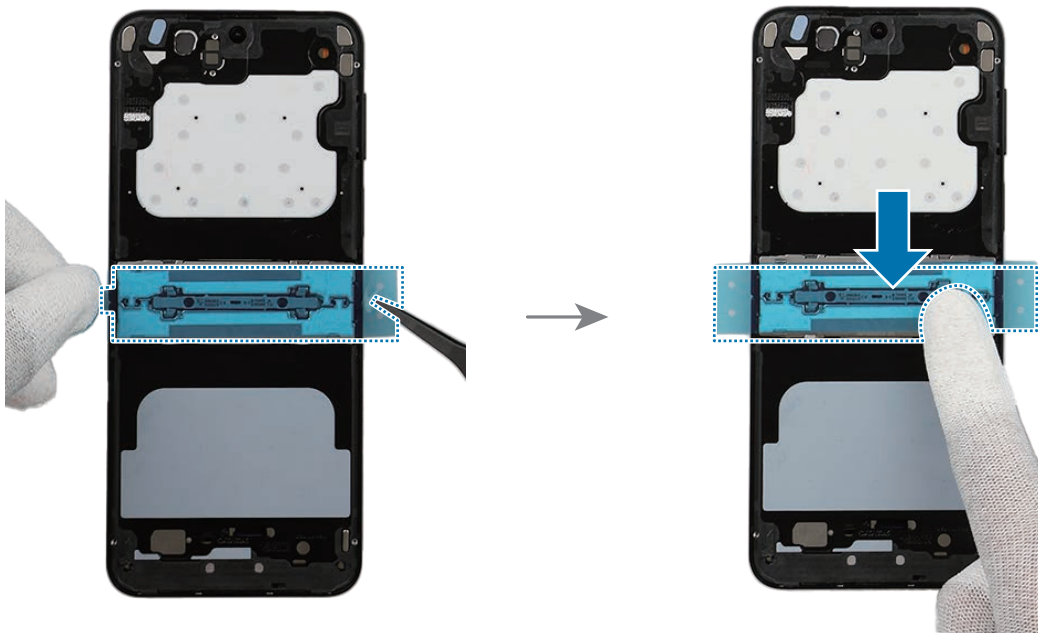
- Using the tweezers, assemble the top and bottom wing plates to the exact position of the metal frame.



- Check the screw 3509 (Black, 4 ea) on the wing plate and fasten them using a cross-head screwdriver.



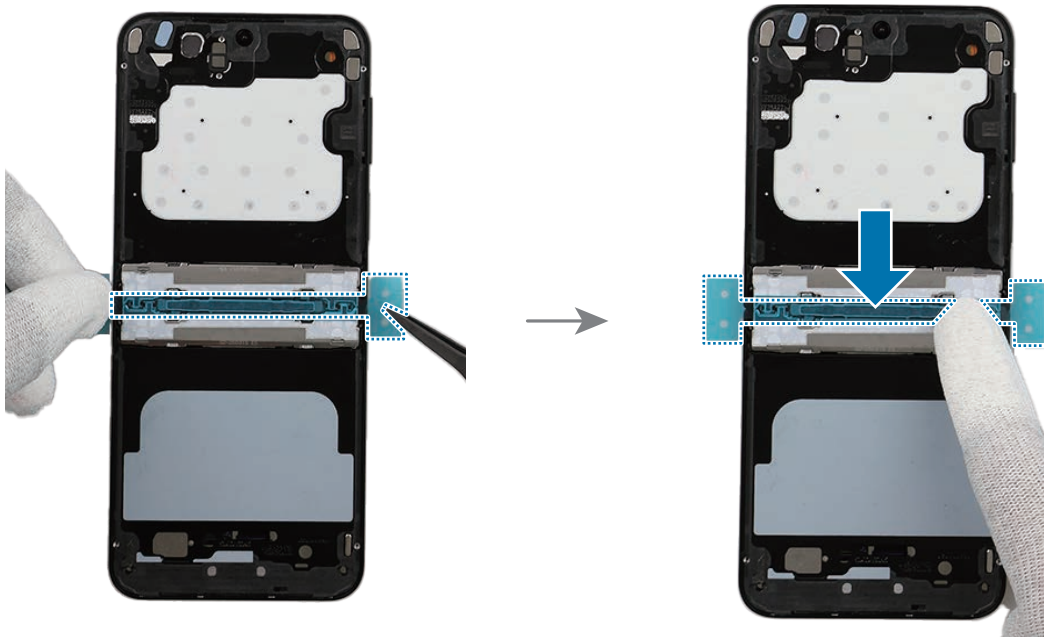
- 10 Remove the transparent film of the new wing plate adhesive tape. Using the tweezers and your fingers, align the tape precisely on the wing plate and attach it. Using your fingers, gently press around the tape to ensure a secure fit.



- 11 Using the tweezers, carefully remove the release film from the attached tape.



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

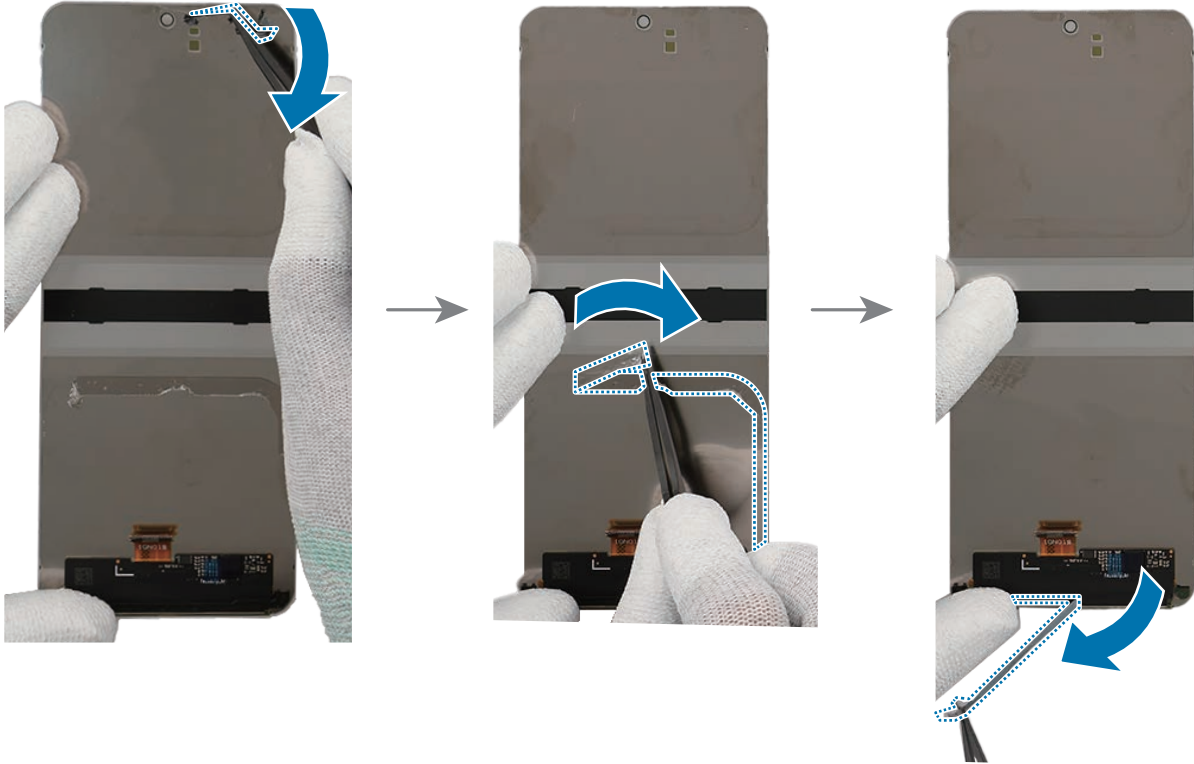


- 13 Using the tweezers, carefully remove the release film from the attached tape.




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

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



- 15 Check for the reassembly steps of the [Main Screen](#) and completely reassemble the main screen and proceed with all steps in the same way.
- 16 Check for the reassembly steps of the [Front Camera](#) and completely reassemble the main board and the upper metal plate.



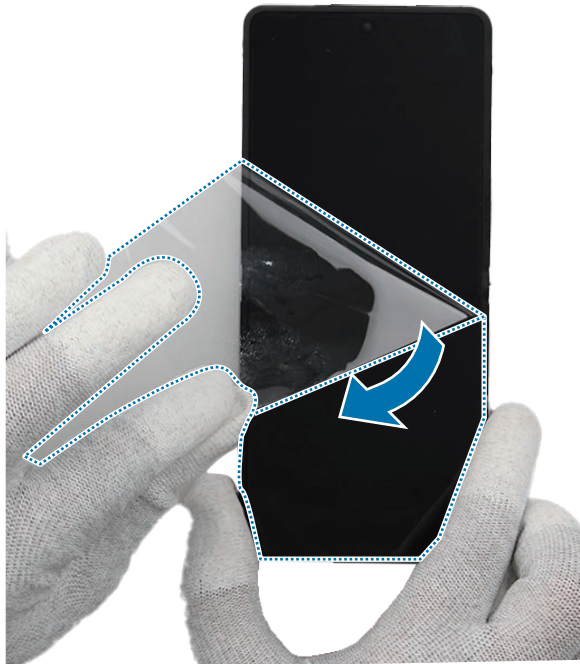
-  Reassemble the [Charging Port and Microphone](#), [Back Cover](#), [Cover Screen](#), and [SIM Card Tray](#) one by one to complete assembly.

Protector Film


Disassembly

Remove the existing film to attach the new protector film.

⚠ Be careful not to damage the main screen.



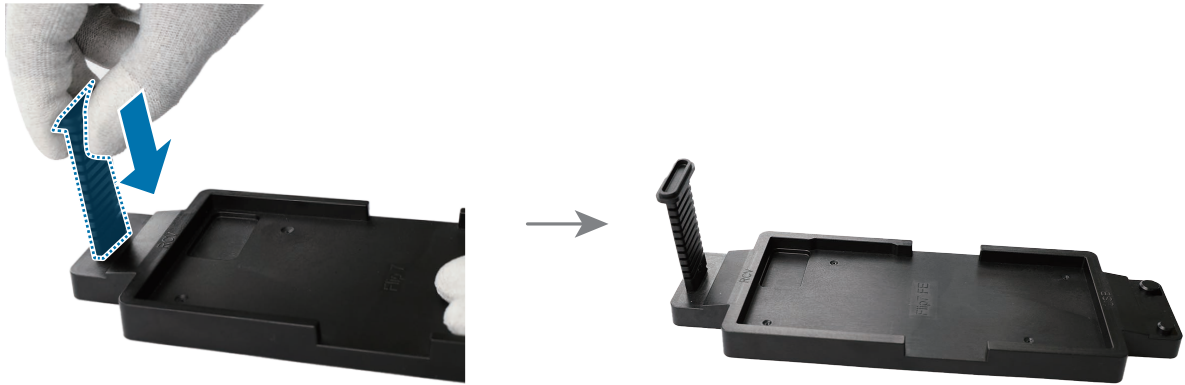
Reassembly

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

- 1 Prepare the bottom tray for protector film, film fixture, film roller, and film squeegee.



- 2 Install the film fixture by inserting it into the bottom tray for attaching the new protector film.



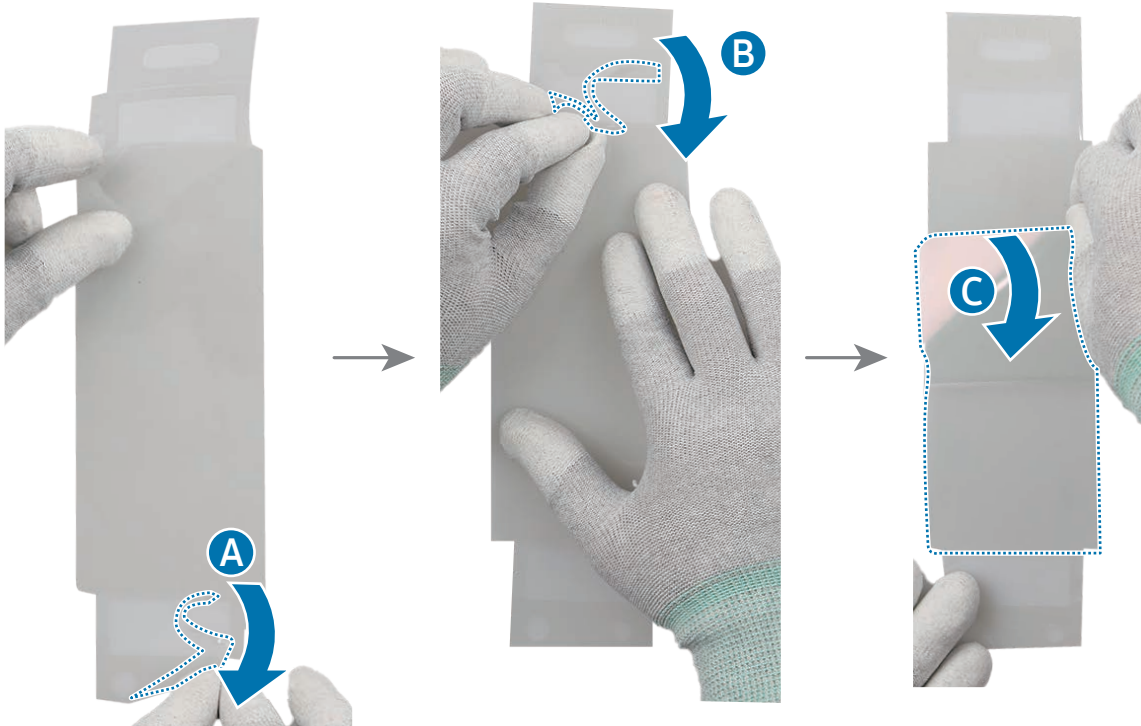
- 3 Place the device on the tray with the main screen facing up and wipe out foreign matter and dust on the surface with a clean cloth.

⚠ Be careful not to damage the main screen.



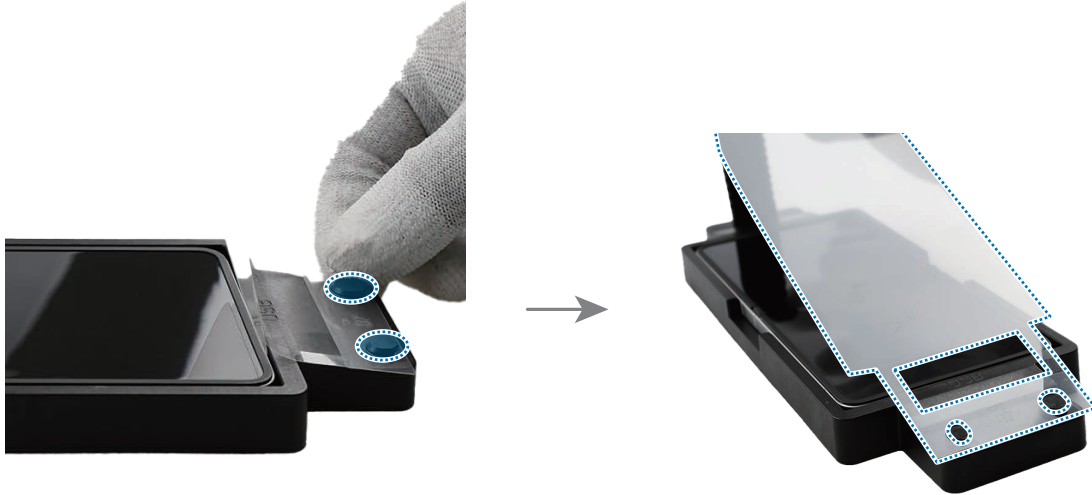
4 Remove the protector film from the packing box and remove all release vinyl carefully using your fingers one by one in the order of A, B, and C.

- ⚠ • Make sure to remove the release vinyl in order of A, B, and C.
- If the release vinyl is removed quickly, the protector film may be damaged or folded. Be careful to remove slowly.

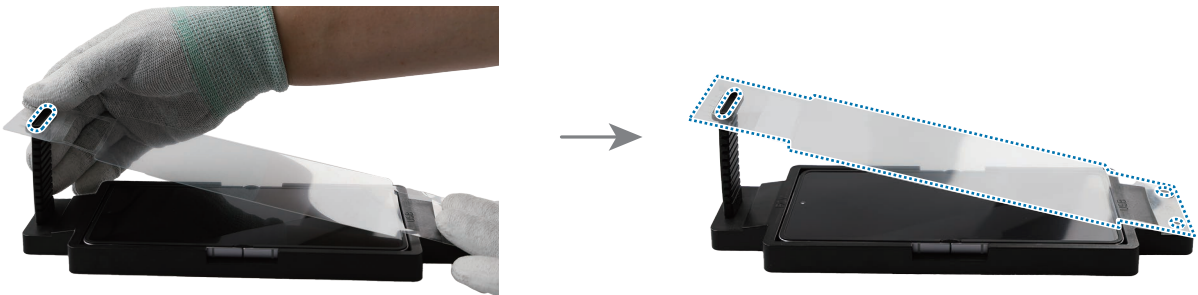


- 5 Secure the bottom 2 holes of the protector film to be attached to the bottom tray. Check if the film is accurately fixed in the bottom 2 hangers.

⚠ Be careful not to damage the protector film.



- 6 Secure the top of the protector film on the film fixture.



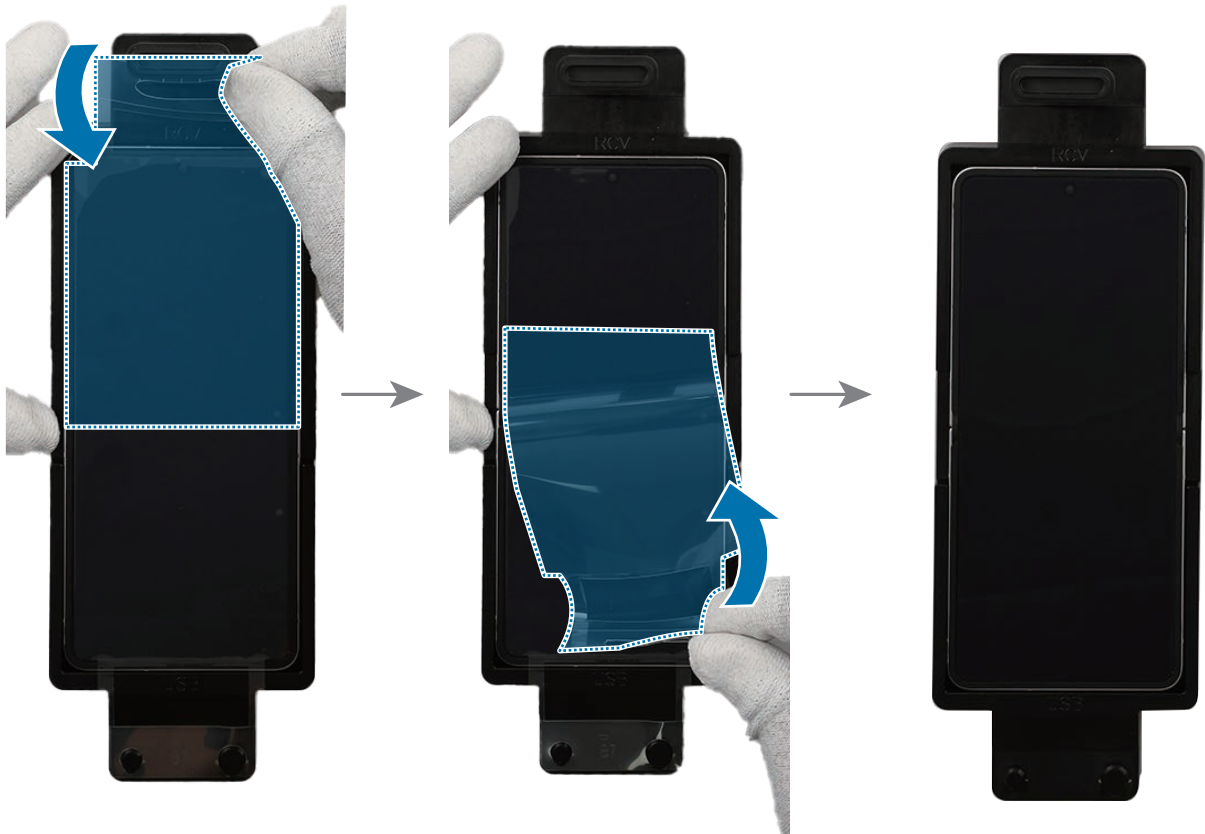
- 7 Using the film roller, slowly push the film from the bottom to the top and carefully attach the film to the main screen.



- 8 When the film is automatically separated from the film fixture, attach the film to the main screen using the film squeegee. Carefully remove air bubbles from the top and bottom edges.



9 Fold the release handle 180° and remove it carefully from the film.



10 Remove the device from the tray and fold it once.



After reassembling

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

Press



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


Before pressing,


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


Back Cover Press

 Appropriate tool for pressing depends on the parts repaired.

Using the roller

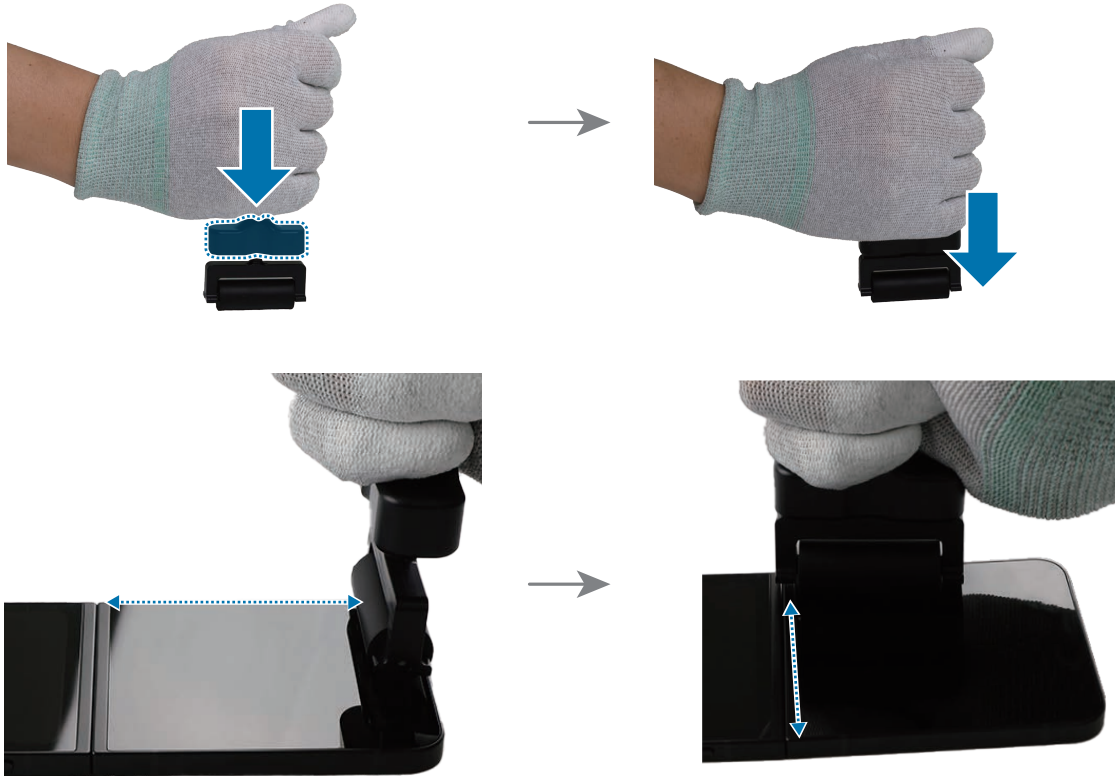
 Keep your hands out of the roller.

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


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

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






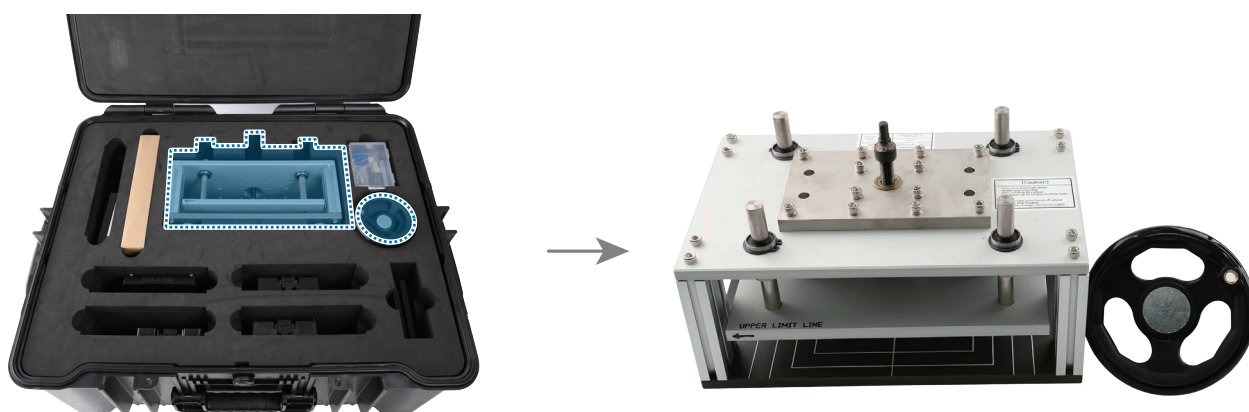
Using the rental toolkit


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

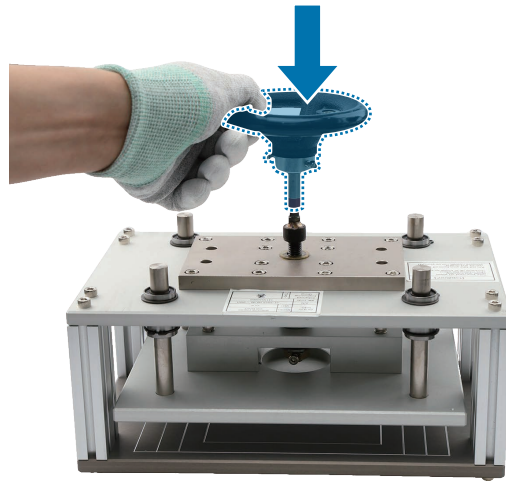
1 Now you can press the fully assembled back cover using the press fixture. Remove the press fixture body and its handle from the rental tool kit packaging.

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

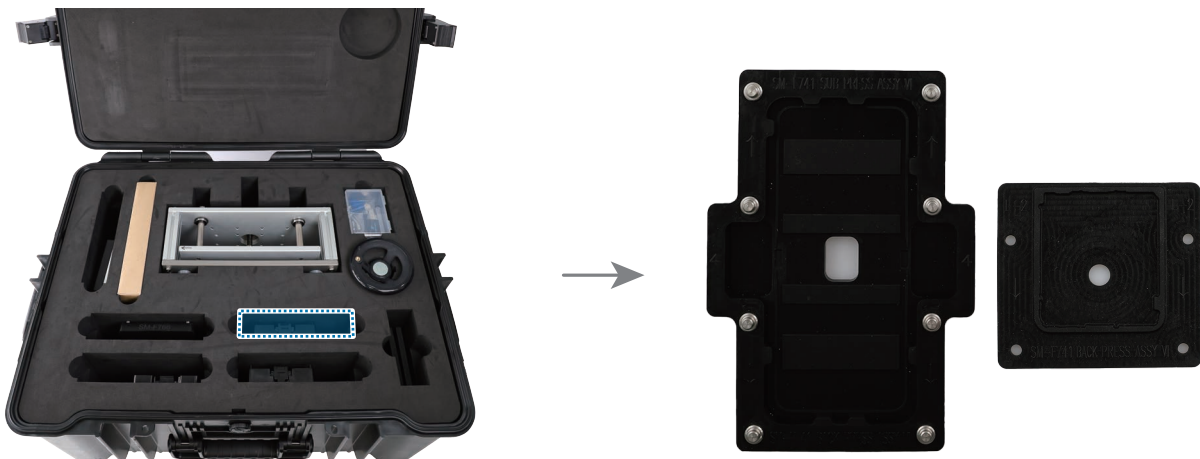
- 
- This tool is only available to use by the rental of tool kit that contains a complete set of the tools for self repair service.
 - Availability of rental service may vary depending on the country and is currently available only in limited countries.
 - A rented tool kit packaging may have different packaging than shown.



- Carefully position the torque limit handle horizontally at the top of the press fixture.
 Keep your hands out of the press fixture to avoid mechanical pinching and injury.



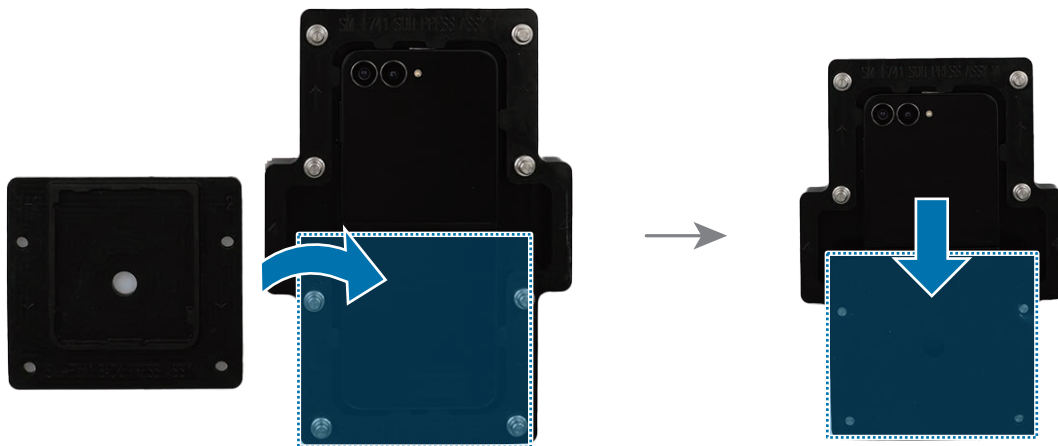
- Remove the bottom press tray and top press tray for the back cover from the rental tool kit packaging.



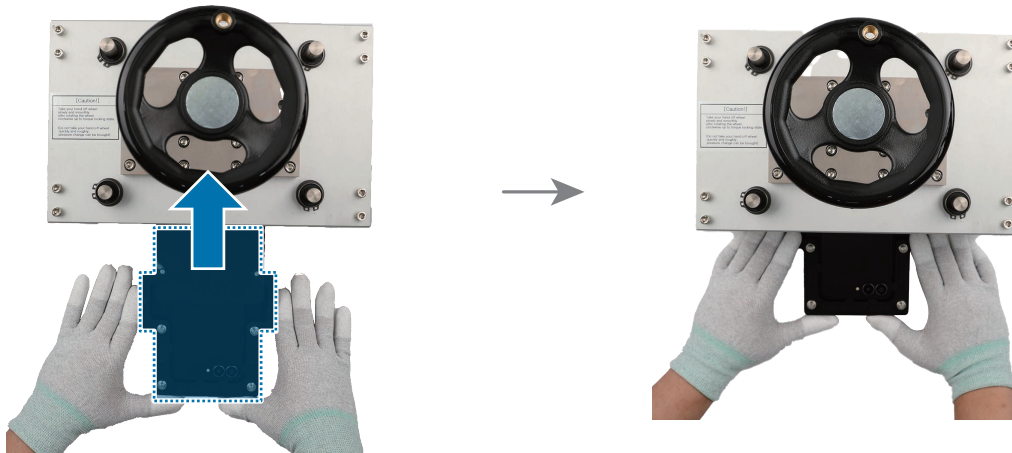
- 4 Place the device on the bottom tray with the main screen facing down.



- 5 Carefully place the top tray on the back cover of the device.




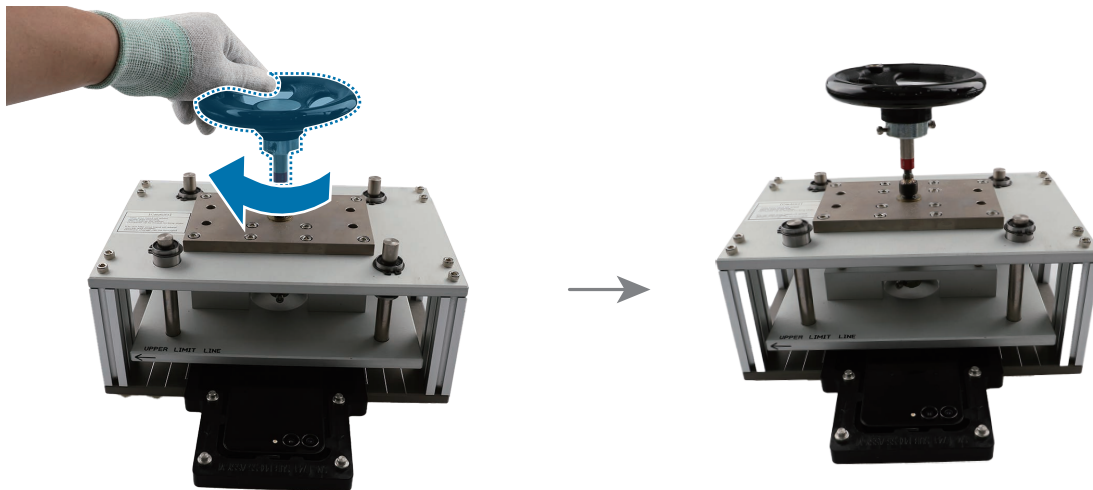
- 6 Position the back cover press tray with the device lengthwise in the centre of the press fixture.



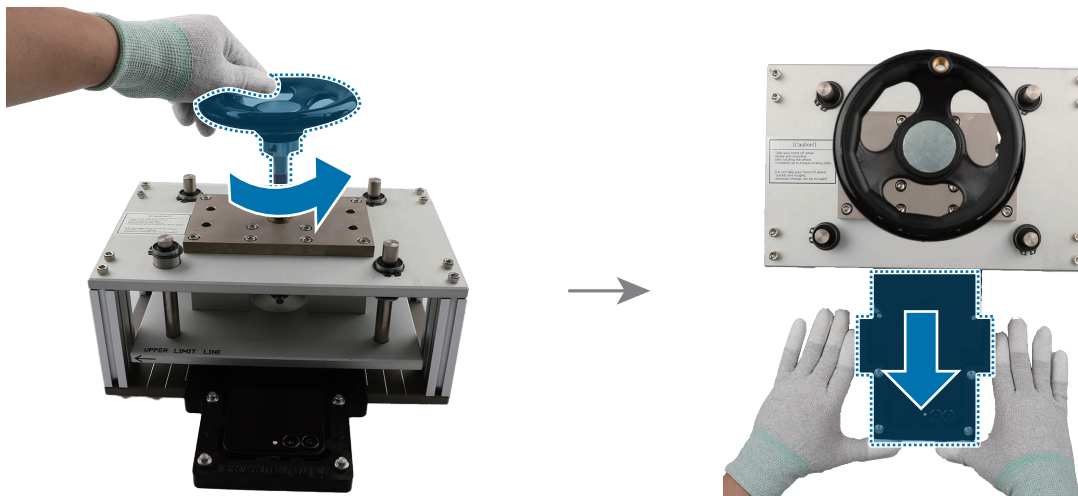
- 7 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 1 minute.

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

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



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




- 9 Separate the top tray and remove the device carefully from the tray.





Cover Screen Press

 Appropriate tool for pressing depends on the parts repaired.

Using the roller and stamp

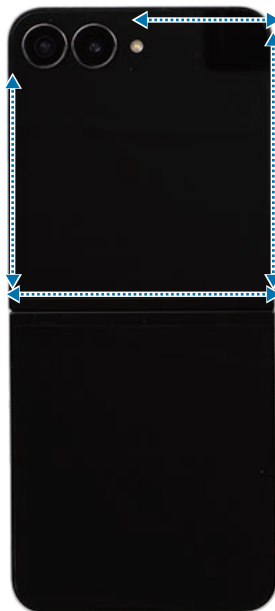
 Keep your hands out of the roller and stamp.

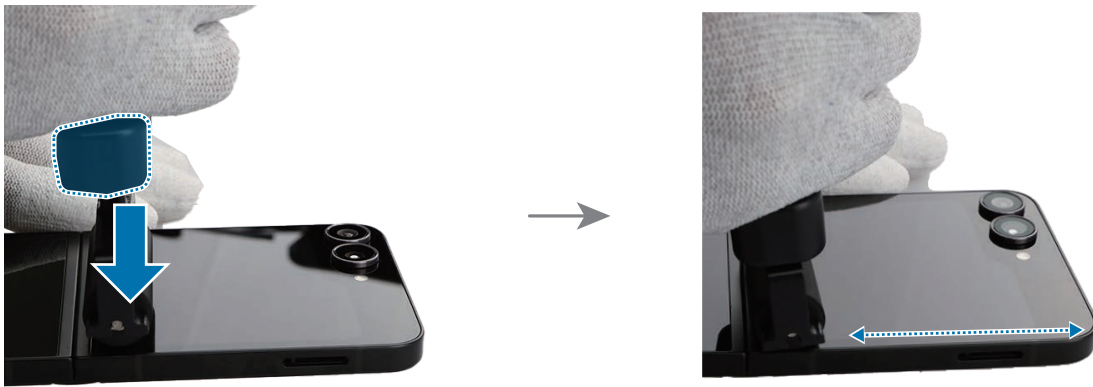
-  • Be sure to swipe while the spring of the roller and stamp is pressed.
- As the cover screen can be damaged by excessive force, be careful not to damage the cover screen.
- Be sure to place the surface of the roller and stamp horizontally on the cover screen.

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

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

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

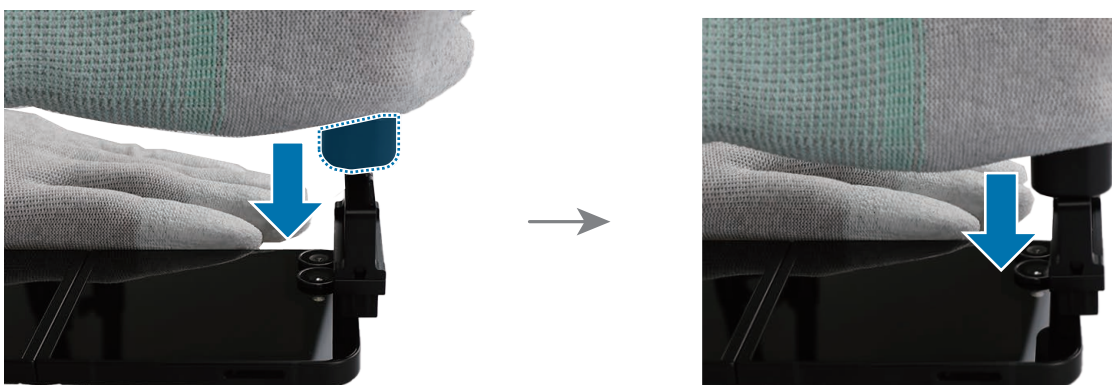


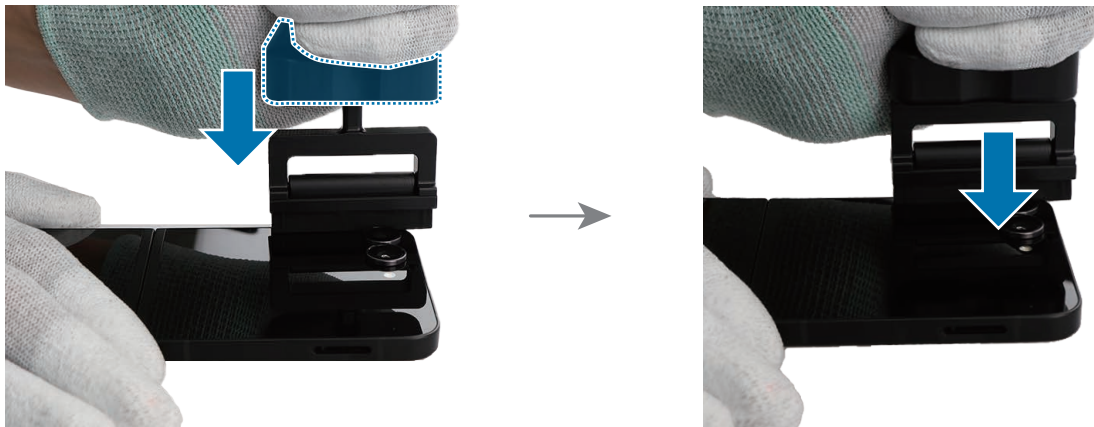


2 With the stamp's spring pressed, press the outer edges of the camera with a press stamp for 5 seconds each.

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

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






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

⚠ Be careful not to damage the camera.




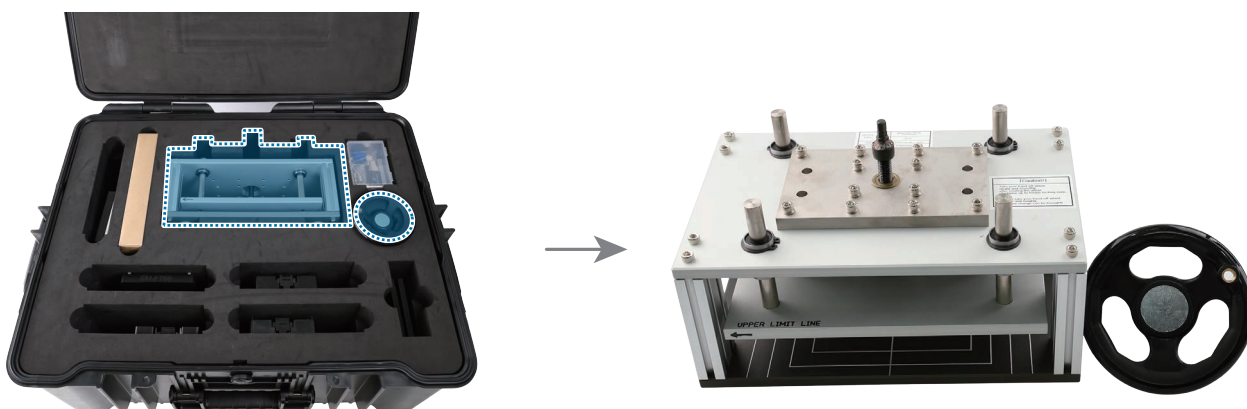
Using the rental toolkit


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

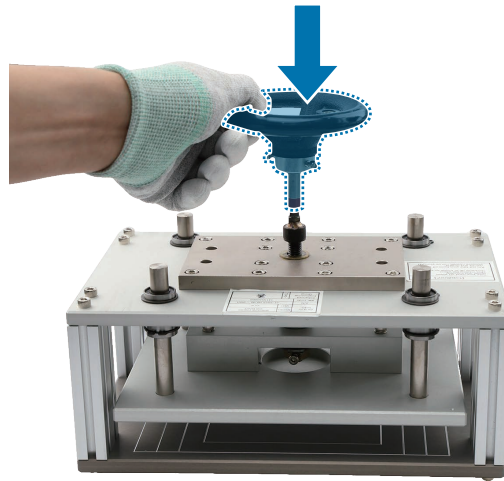
1 Now you can press the fully assembled cover screen using the press fixture. Remove the press fixture body and its handle from the rental tool kit packaging.

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

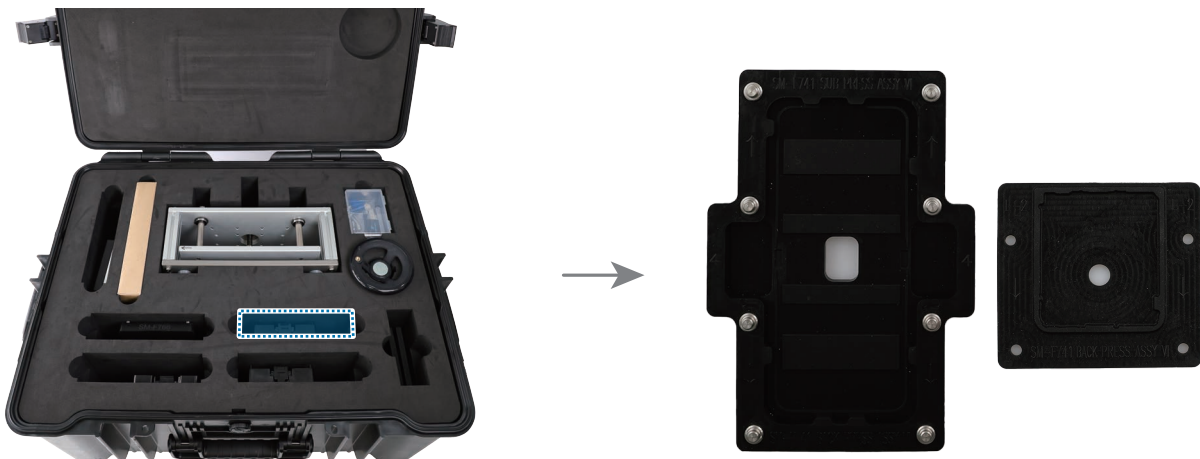
-  • This tool is only available to use by the rental of tool kit that contains a complete set of the tools for self repair service.
- Availability of rental service may vary depending on the country and is currently available only in limited countries.
 - A rented tool kit packaging may have different packaging than shown.



- Carefully position the torque limit handle horizontally at the top of the press fixture.
 Keep your hands out of the press fixture to avoid mechanical pinching and injury.



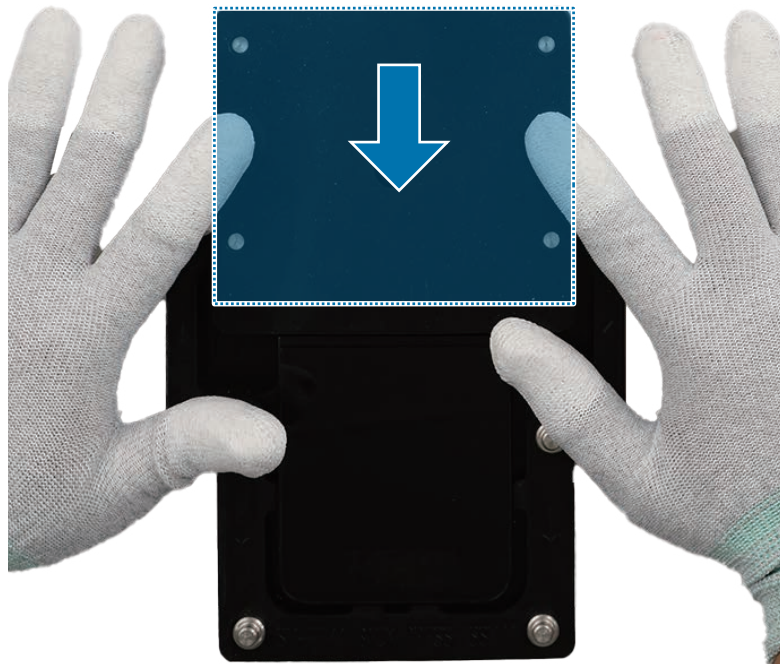
- Remove the bottom press tray and top press tray for the cover screen from the rental tool kit packaging.



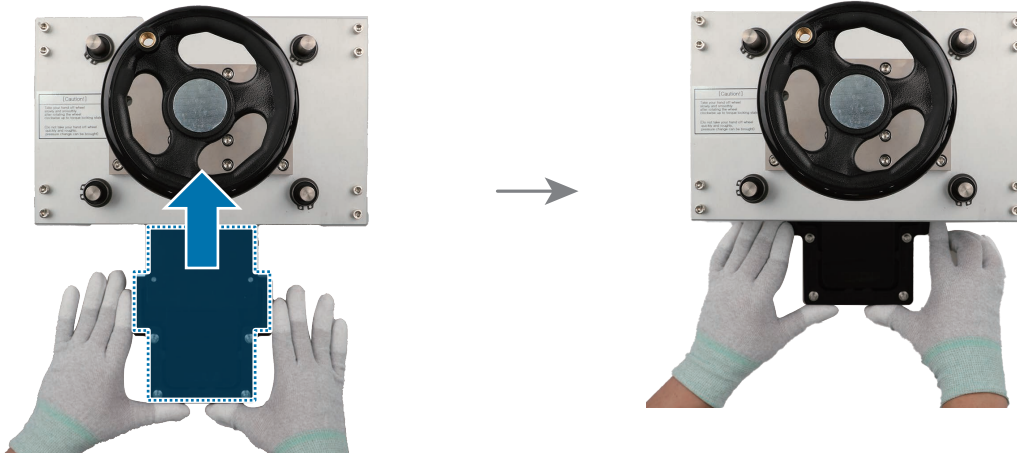
- 4 Place the device on the bottom tray with the main screen facing down.



- 5 Carefully place the top tray on the cover screen of the device.




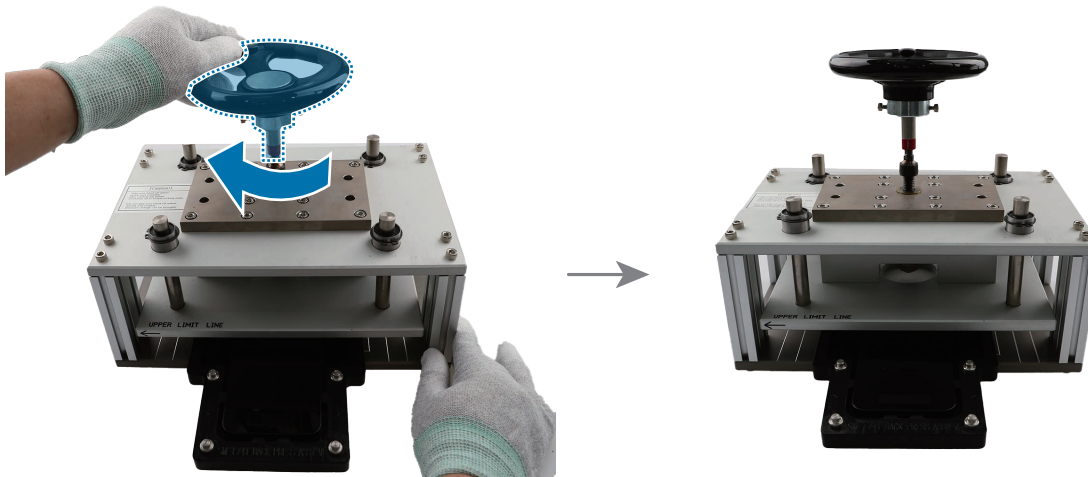
- 6 Position the cover screen press tray with the device lengthwise in the centre of the press fixture.



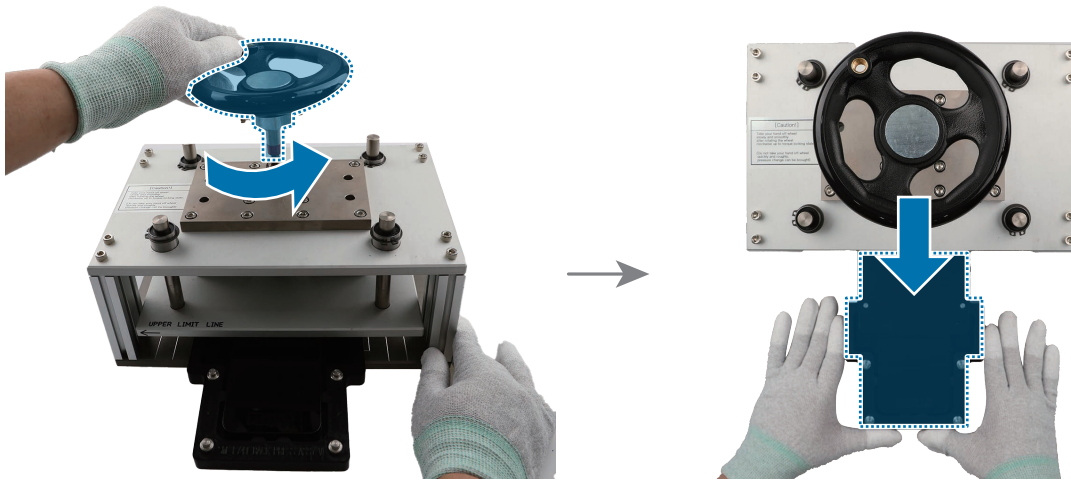
- 7 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 1 minute.

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

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



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



- 9 Separate the top tray and remove the device carefully from the tray.



Battery Press

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

Sub battery

- 1 Place the press stamp vertically on the right side of the sub battery. With the stamp's spring pressed, press the battery for 5 seconds to ensure that the battery is attached well.
- ⚠
 - Ensure that the press stamp is located within the battery size.
 - The FPCB cables have to be positioned outside so as not to interfere when pressing the battery.



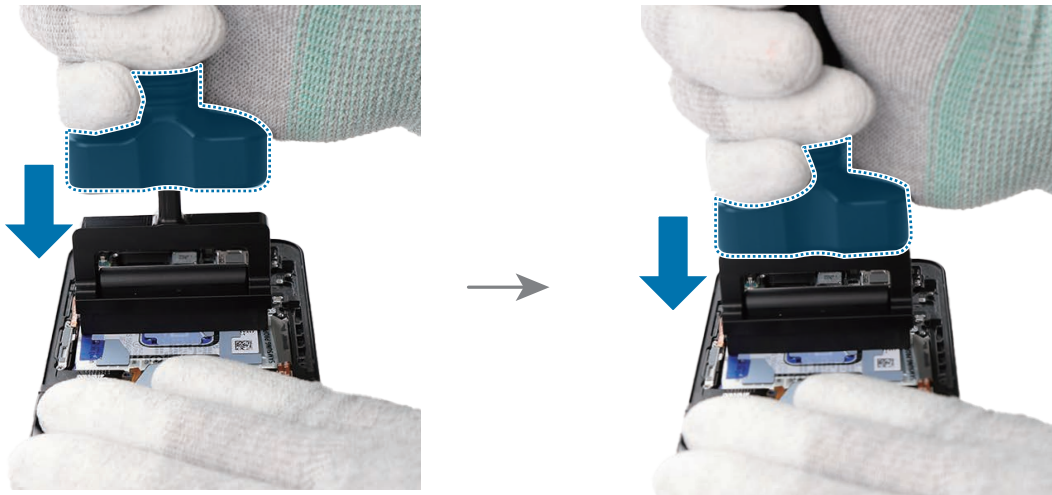
- 2 Move the stamp to the left and press the sub battery again for 5 seconds. Divide the entire sub battery into 5 sections and repeat to press it total 5 times in the same way.



Main battery

1 Place the press stamp vertically on the top side of the main battery. With the stamp's spring pressed, press the battery for 5 seconds to ensure that the battery is attached well.

- ⚠ • Ensure that the press stamp is located within the battery size.
- The FPCB cables have to be positioned outside so as not to interfere when pressing the battery.



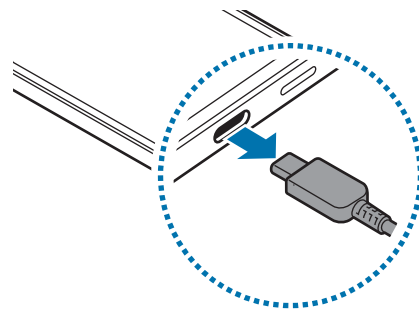
- 2 Move the stamp to the down and press the main battery again for 5 seconds. Divide the entire main battery into 3 sections and repeat to press it total 3 times in the same way.



Directive 2012/19/EU Annex VII Components

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

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



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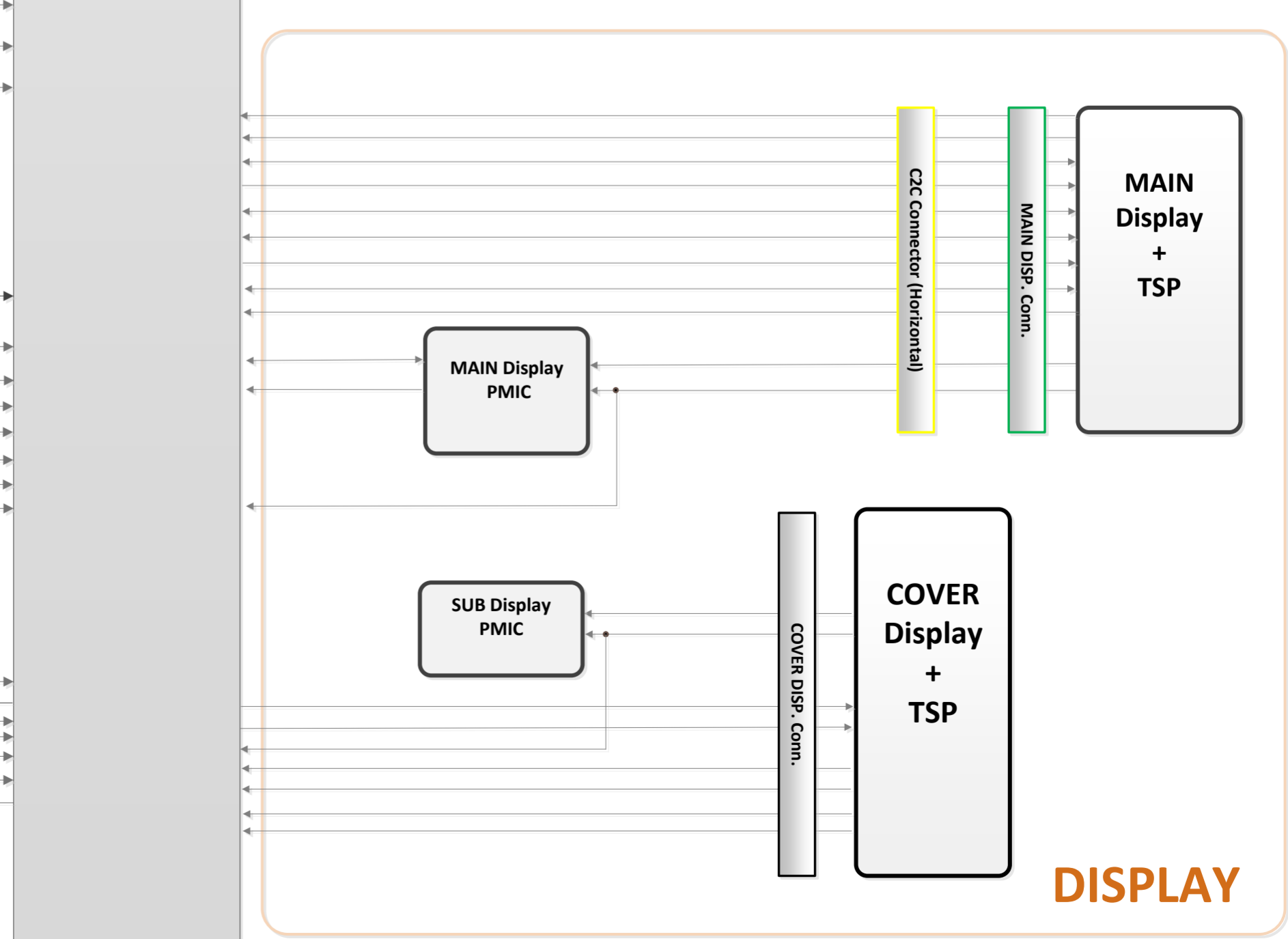
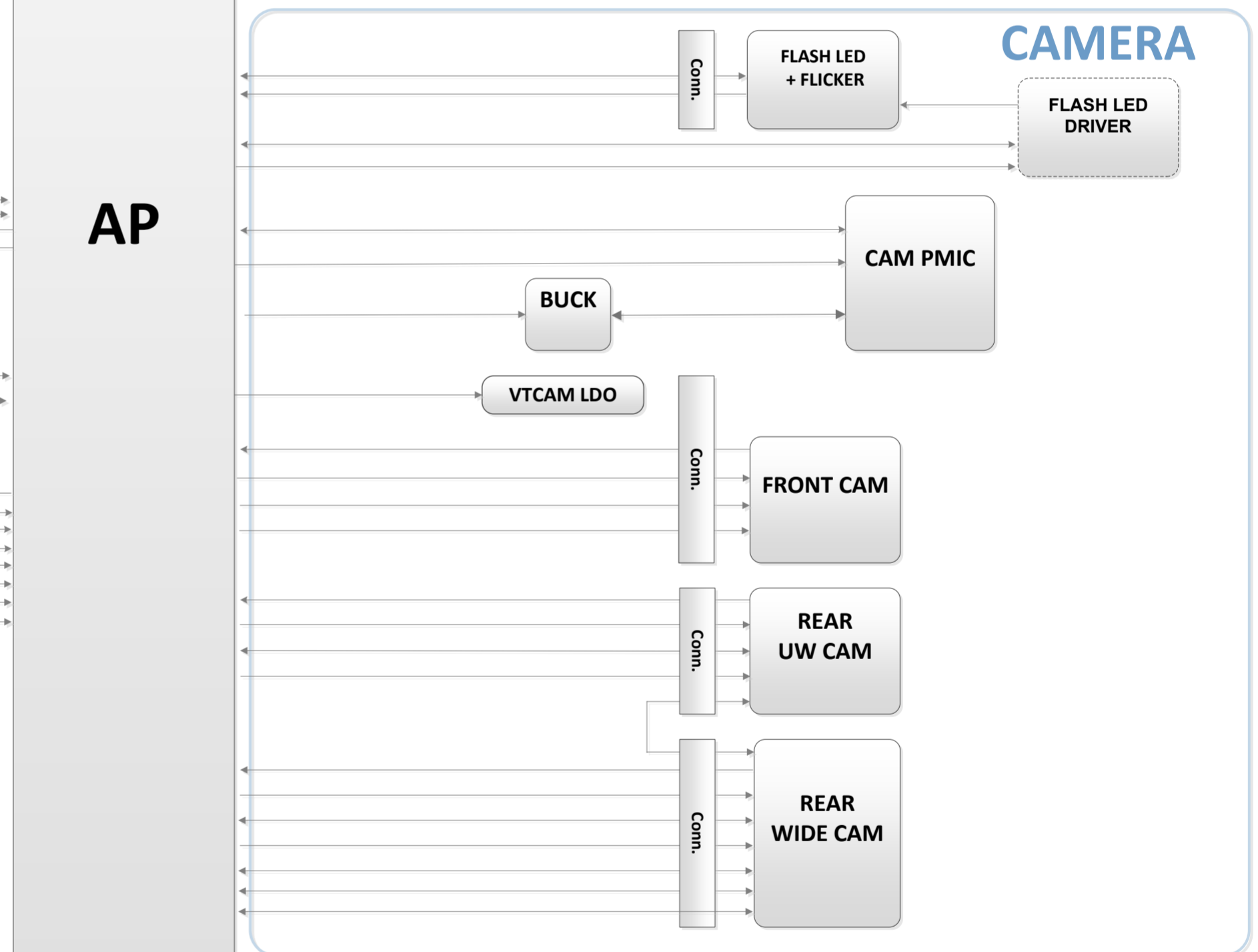
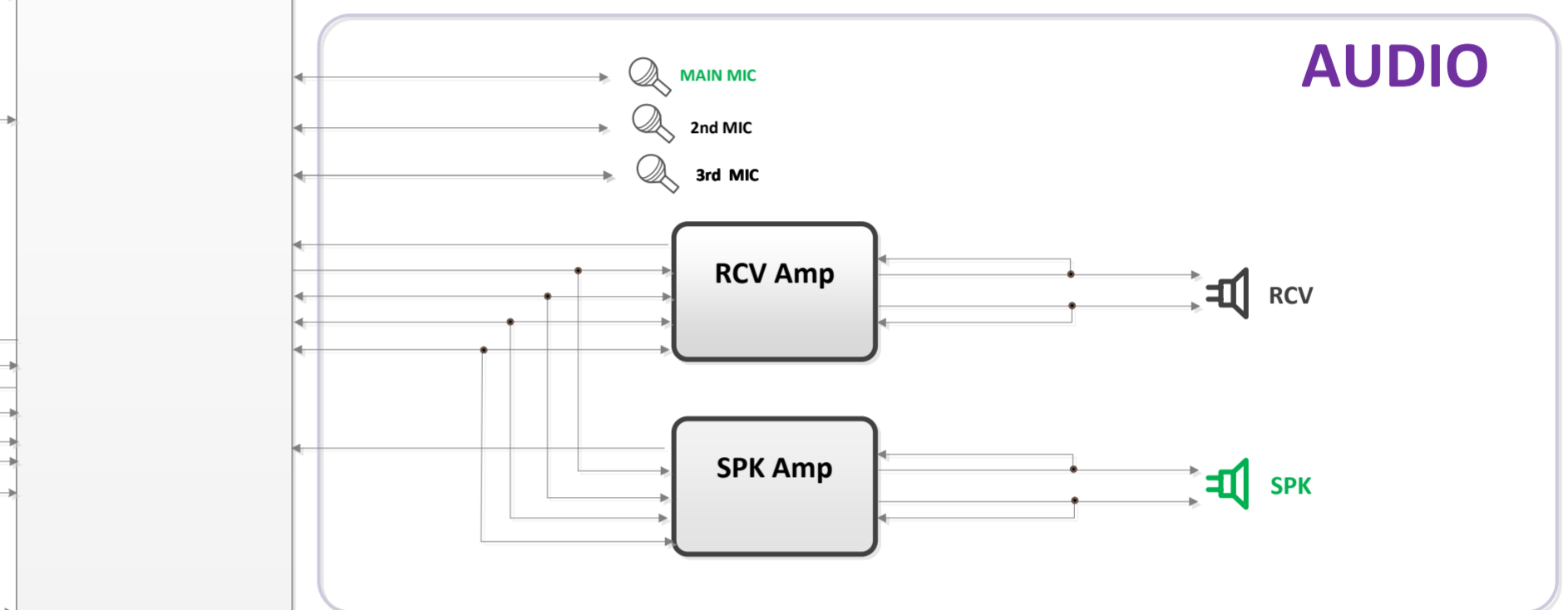
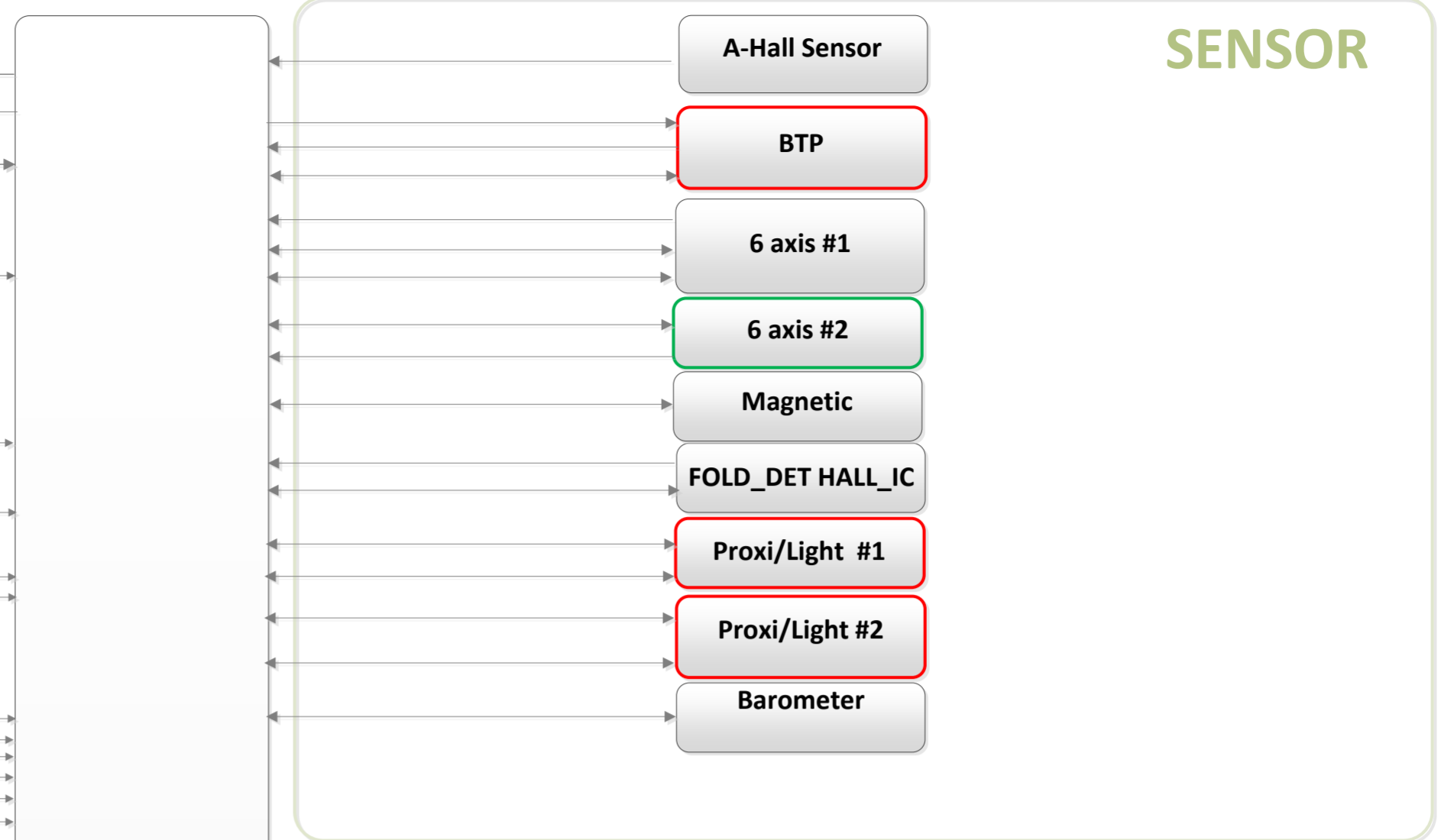
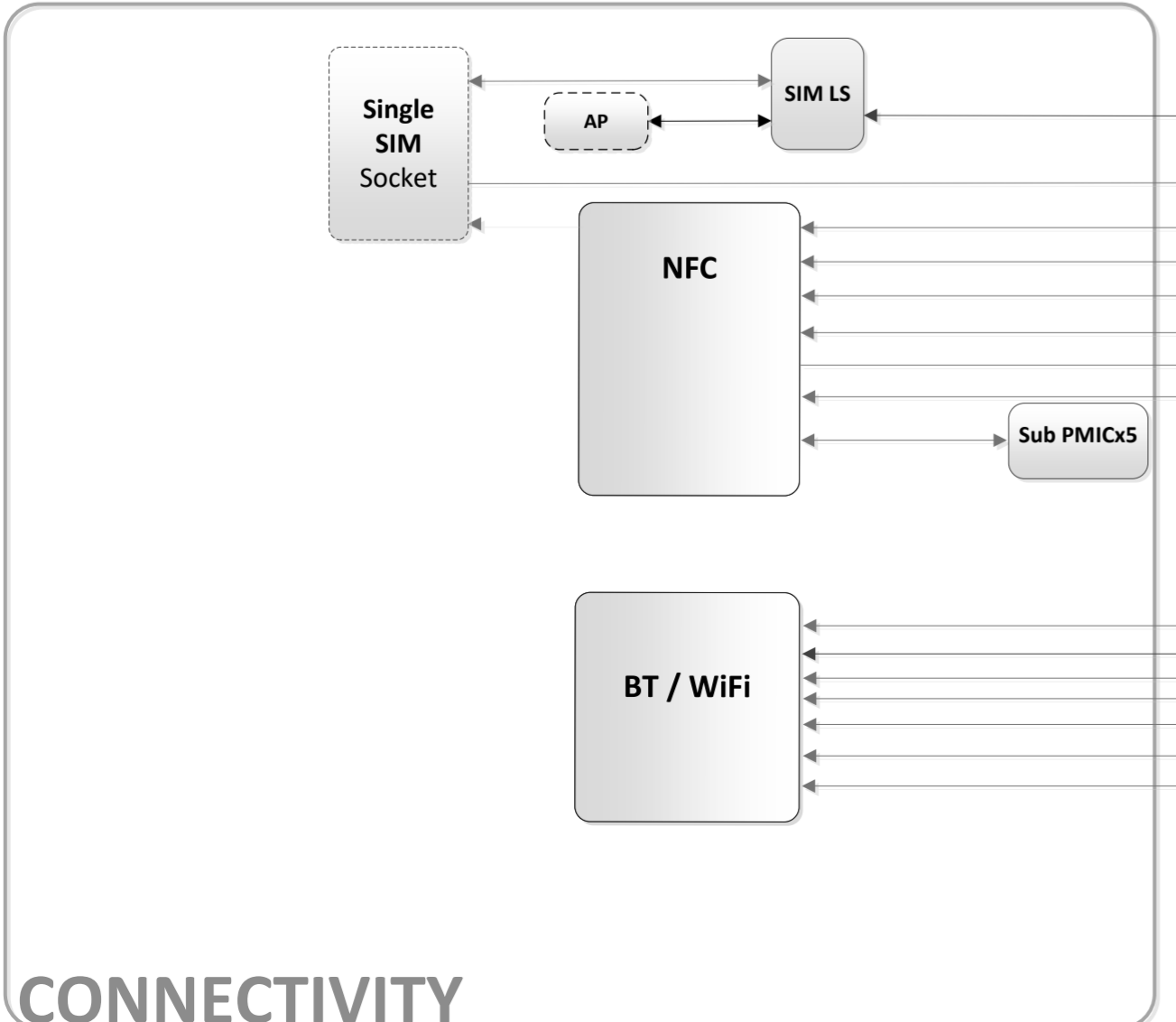
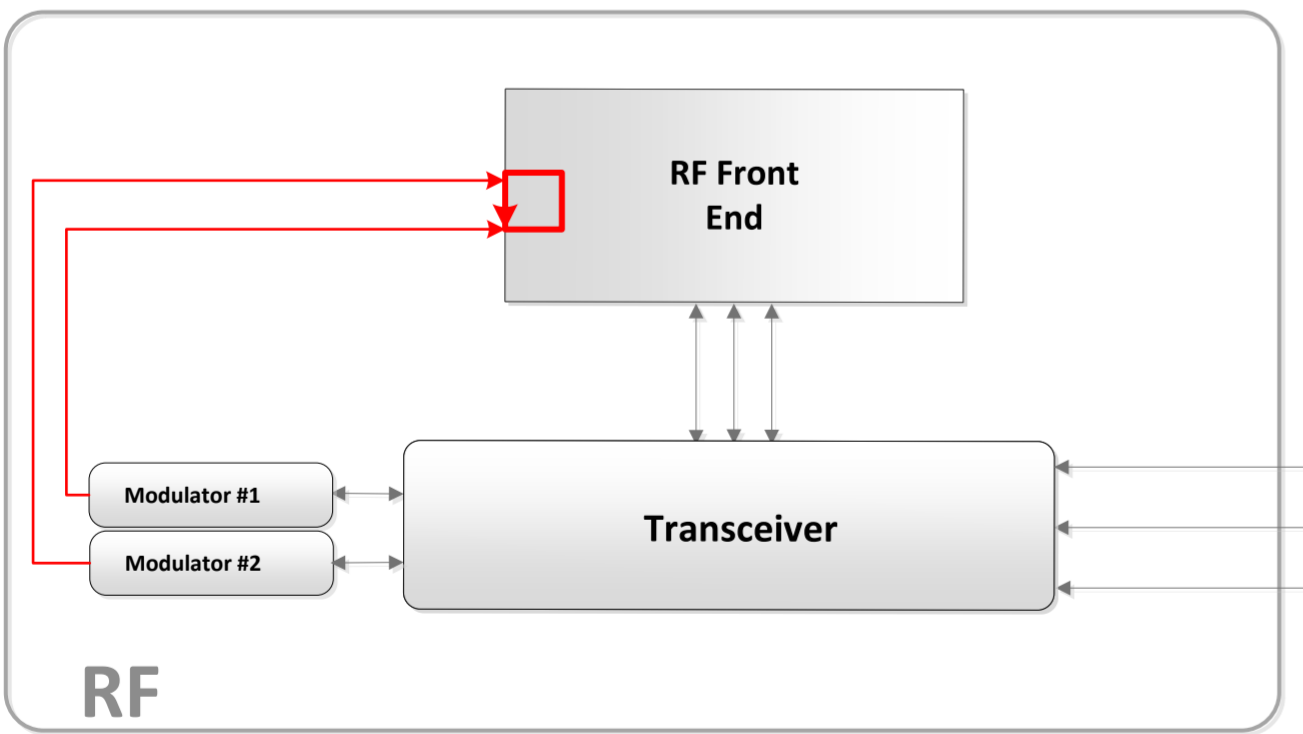
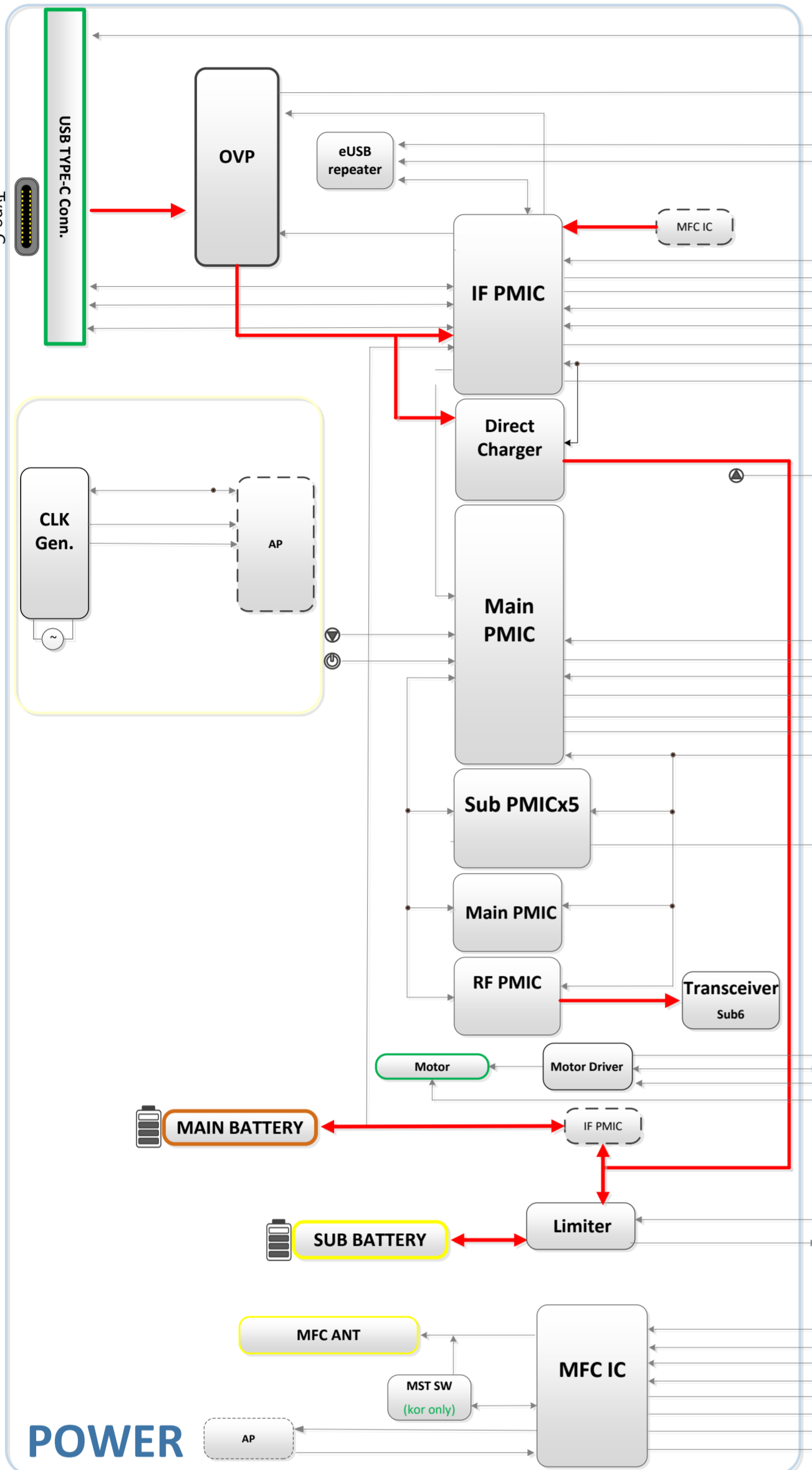
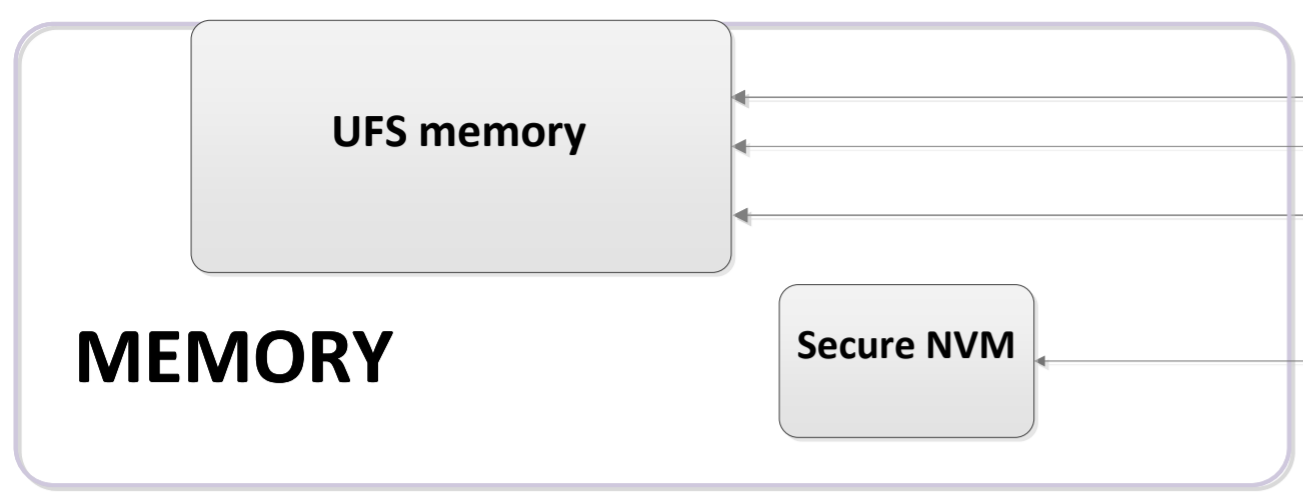
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Place (Secondary)

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