

SAMSUNG

REPAIR GUIDE

SM-X230
SM-X236B
SM-X238U
SM-X238U1

English. 12/2025. Rev.1.0

www.samsung.com

Table of Contents

Usage Notices

- 5 Precautions for Repair
- 6 ESD (Electrostatic Discharge) Precautions
- 7 Instructional Icons

Software Update

- 8 Updating Software through FOTA
- 8 Software Update Failure
- 8 Updating Software through Smart Switch
- 9 Recovering from a Software Update Failure
- 9 Recovering on Another Computer
- 10 Performing a Factory Data Reset

Quality Test

- 12 Quality Test Using the Samsung Members App
- 12 Device Diagnostics
- 13 Test Items

Calibrations

- 22 Calibrations
- 22 Used Parts and Calibration Functions in Supported Models
- 23 Using the Self Repair Assistant App
- 28 Optical Fingerprint Sensor Calibration
- 31 Resetting the Battery Cycle Count
- 34 Range Sensor Calibration

- 36 Touch Screen Panel Calibration
- 38 Speaker Calibration
- 40 Under-display Camera Calibration (Fold Models Only)
- 42 Digital Hall Sensor Calibration (Fold and Flip Models Only)

Exploded View and Parts List

- 45 Exploded View
- 46 Parts List

Disassembly and Assembly

- 48 Tools for Disassembly and Assembly
 - 52 Composition of Rental Toolkit
- 53 Fasteners (Adhesives and Materials) for Assembly
- 56 Disassembly and Reassembly for replacement
 - 57 SIM Card Tray
 - 57 Disassembly
 - 59 Reassembly
 - 60 Screen
 - 60 Disassembly
 - 71 Reassembly
 - 84 Front Camera
 - 84 Disassembly
 - 89 Reassembly
 - 93 Rear Camera
 - 93 Disassembly
 - 98 Reassembly
 - 104 Charging Port and Microphone
 - 104 Disassembly
 - 109 Reassembly
 - 114 Headphone Jack
 - 114 Disassembly
 - 119 Reassembly

124	Speaker1
124	Disassembly
127	Reassembly
133	Speaker 2
133	Disassembly
143	Reassembly
153	Speaker 3
153	Disassembly
158	Reassembly
166	Speaker 4
166	Disassembly
169	Reassembly
174	Button
174	Disassembly
175	Reassembly
177	Back Cover Module
177	Disassembly
186	Reassembly
210	Battery
210	Disassembly
216	Reassembly
222	Press
223	Screen Press
231	Battery Press
239	Directive 2012/19/EU Annex VII Components

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 screen.
- 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 screen, 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.

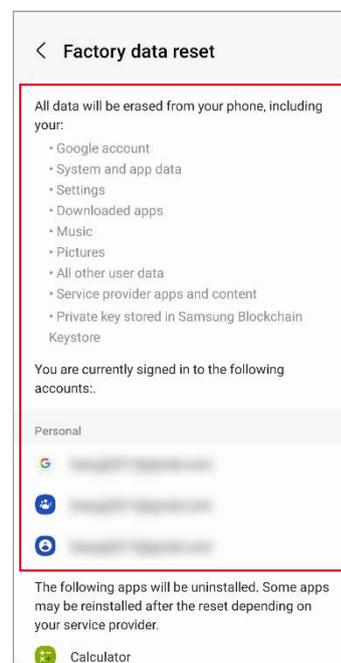
Performing a Factory Data Reset

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

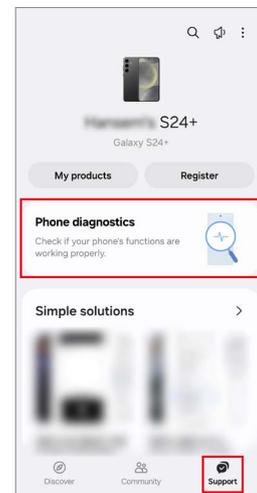
Quality Test Using the Samsung Members App

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.

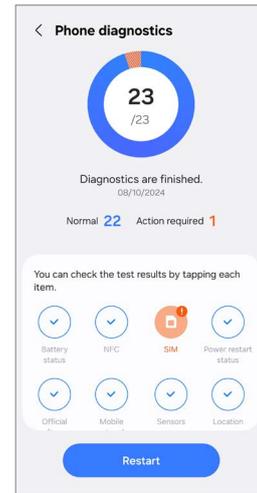


3 Tap **Test all**.

The device performs a test on all items.

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

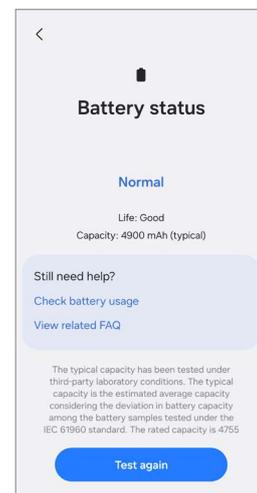
- Tick mark: Working normally
- Exclamation mark: Needs further inspection
- The test proceeds automatically, but you may need to follow the on-screen instructions depending on the test item. Keep an eye on the screen during testing to ensure smooth progress.
- If the exclamation mark appears on any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



Test Items

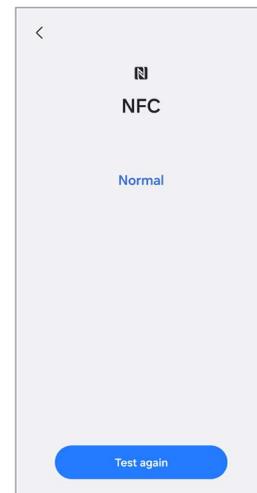
Battery status

Check the battery life and capacity.



NFC

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

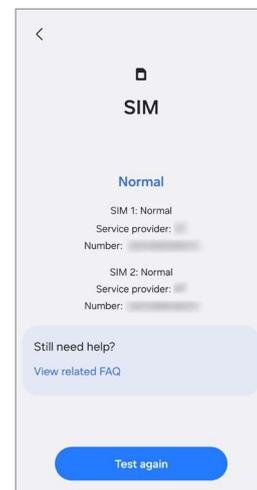


SIM

Check whether the SIM is working normally.

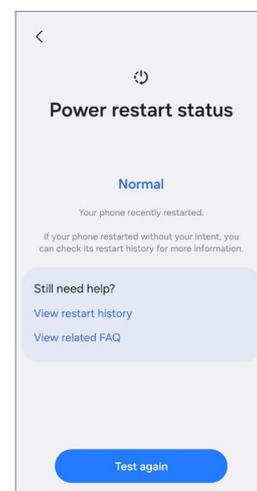


If the test result is not **Normal**, remove the SIM card from the SIM card tray and replace it. If possible, try again with another SIM card.



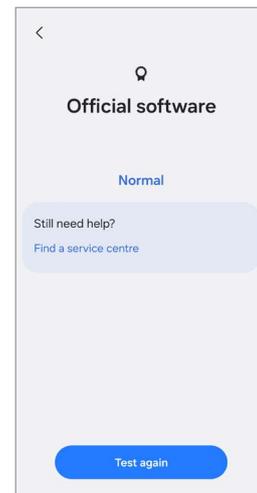
Power restart status

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



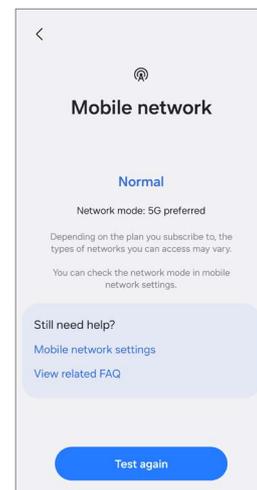
Official software

Check whether the official software is being used.



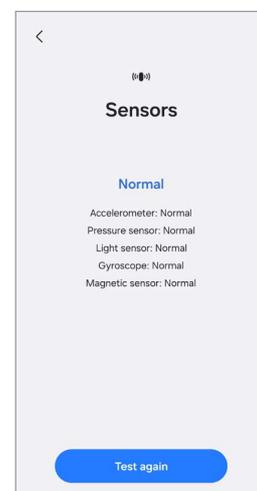
Mobile network

Check whether your mobile network is working normally.



Sensors

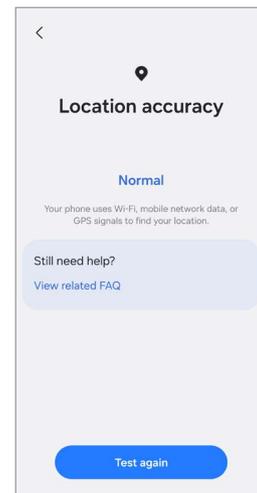
Check whether the sensors are working normally.



Location accuracy

Check whether the location feature is working normally.

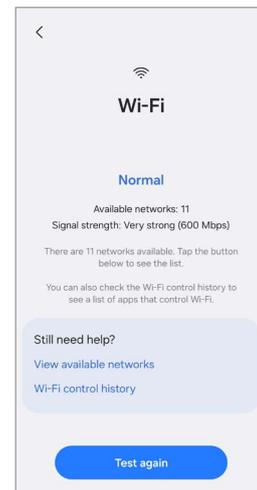
-  The results might be more accurate when you test outside.



Wi-Fi

Check whether the Wi-Fi feature is working normally.

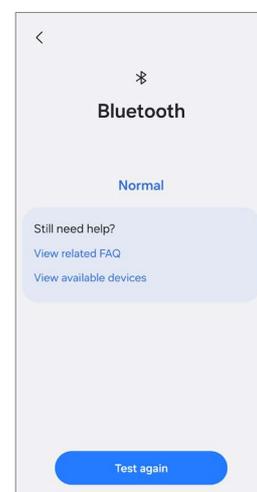
-  To test this feature, the Wi-Fi feature must be activated.



Bluetooth

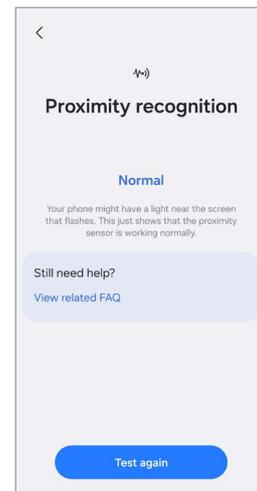
Check whether Bluetooth can search for other Bluetooth devices.

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



Proximity recognition

Check whether the proximity recognition feature is working normally.

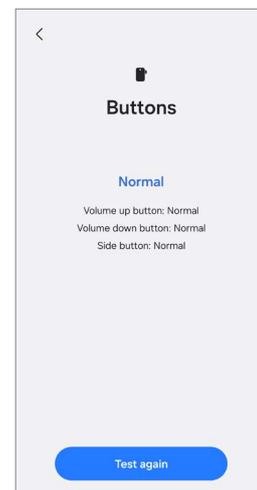


Buttons

Check whether the buttons are working normally.

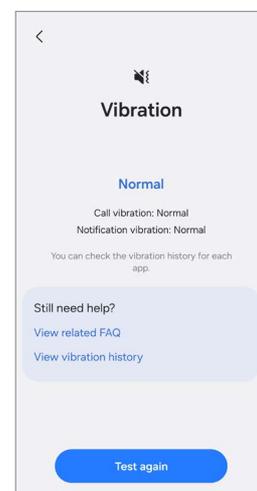


Make sure that the buttons are not contaminated to get more accurate test results.



Vibration

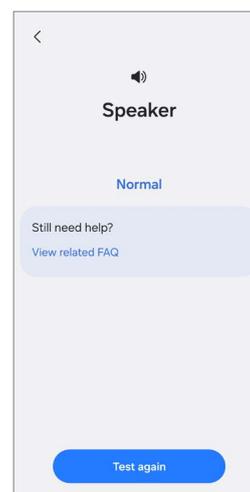
Check whether the vibration feature is working normally.



Speaker

Check whether the speakers are working normally.

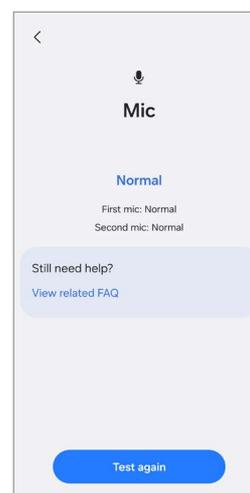
-  If you cannot hear the sound well, check whether the media volume is turned up and if the speaker is obstructed by foreign objects, the case, or the protective film.



Mic

Check whether the microphones are working normally.

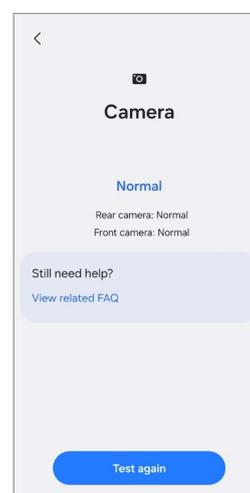
-  The number of tests may vary depending on the model.
-  If you cannot hear anything after recording, check whether the media volume is turned up and if the microphone or speaker is obstructed by foreign objects, the case, or the protective film.



Camera

Check whether the cameras are working normally.

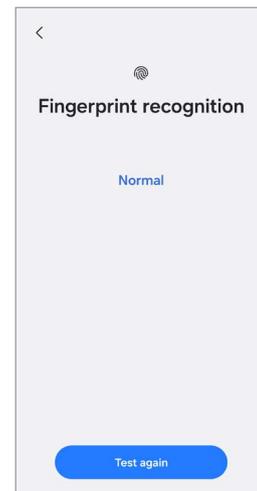
-  To test this more accurately, check if the camera is obstructed by foreign objects, the case, or the protective film.



Fingerprint recognition

Check whether the fingerprint recognition sensor is working normally.

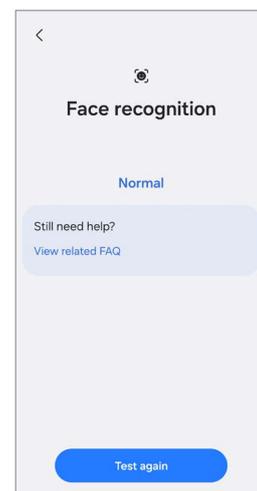
-  To test this feature, your fingerprint must be registered.



Face recognition

Check whether the face recognition sensor is working normally.

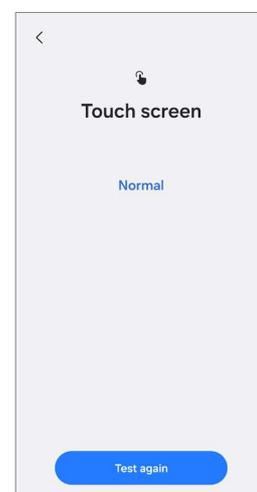
-  To test this feature, your face must be registered.



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.

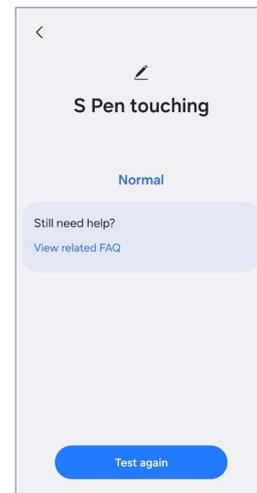


S Pen touching

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.

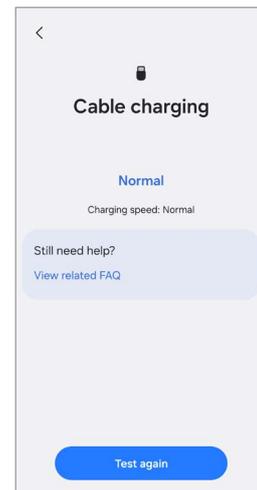


Cable charging

Check whether the cable charging feature is working normally.



- Use only Samsung-approved chargers.

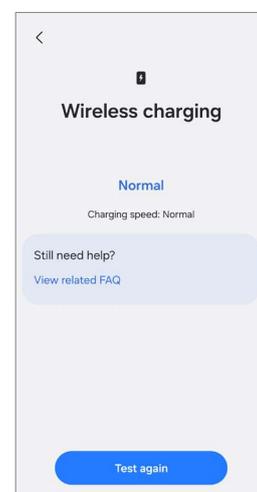


Wireless charging

Check whether the wireless charging feature is working normally.



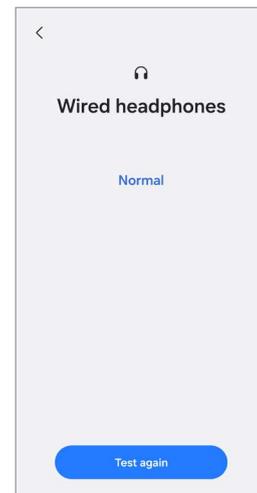
- Use only Samsung-approved wireless chargers.



Wired headphones

Check whether the headphone jack recognises the headphones normally.

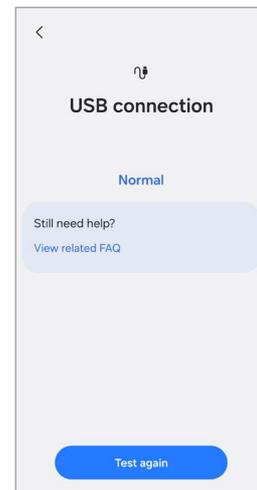
-  To test this feature, you must connect headphones.



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.

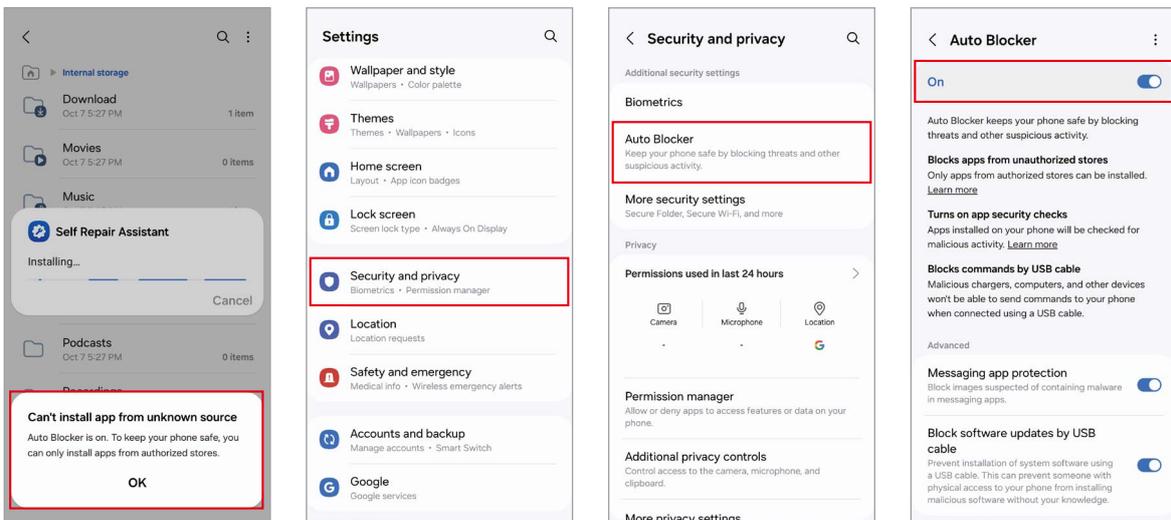
	Screen	Battery	Back Glass	Charging Port	Speaker
Optical Fingerprint Cal.	Yes	No	No	No	No
Range Sensor Cal.	Yes	Yes	Yes	Yes	Yes
Battery Cycle Resets.	No	Yes	No	No	No
Touch Screen Panel Cal.	Yes	No	No	No	No
Speaker Cal.	No	No	No	No	Yes
Under-display Camera Cal.	Yes	No	No	No	No
Digital Hall Sensor Cal.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

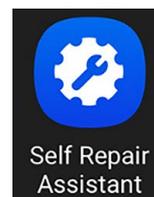
Using the Self Repair Assistant App

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.

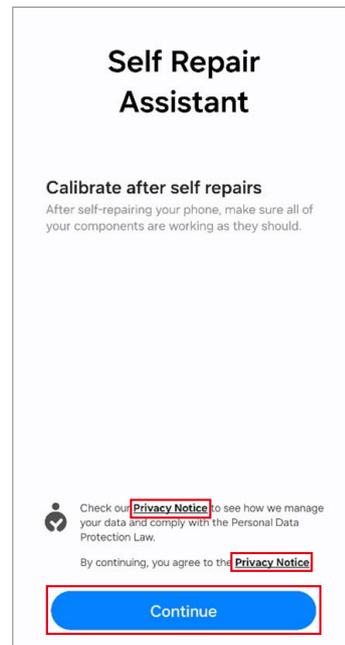
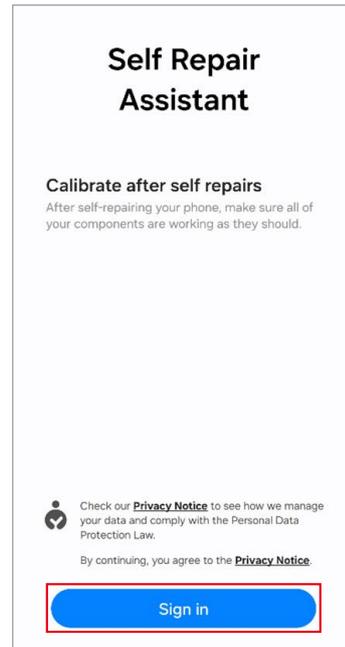


2 Launch the **Self Repair Assistant** app.

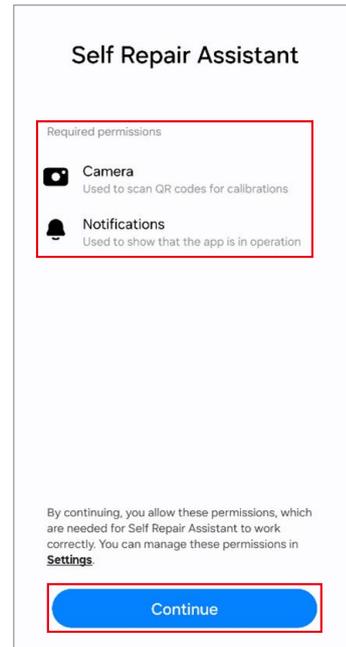


3 Read Privacy Notice and tap **Continue**.

- 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.



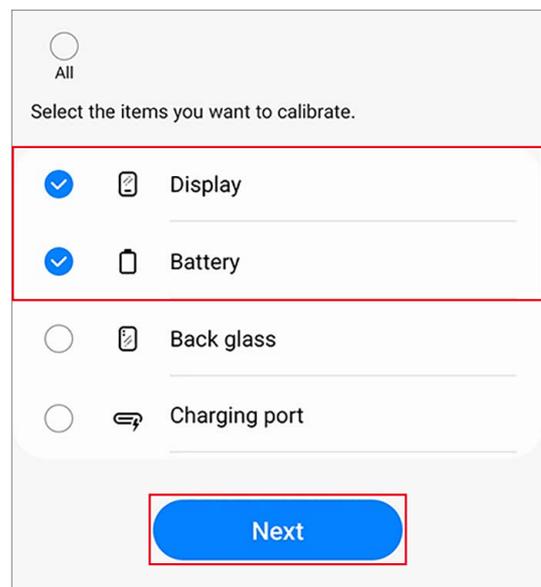
4 Check permissions and tap **Continue**.



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

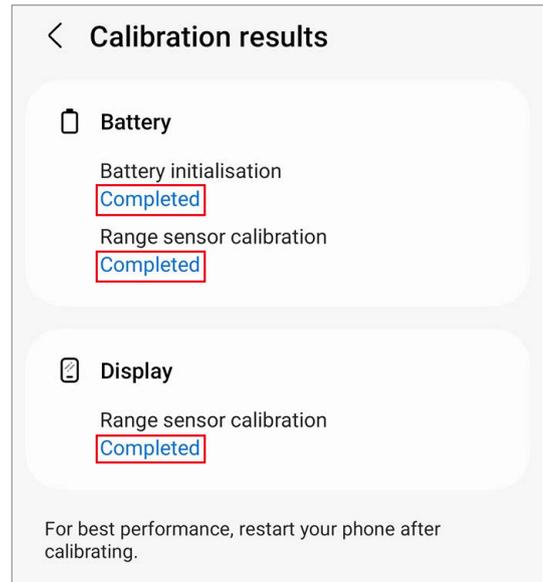
This calibration needs to be done in the dark. Move to a dark room before starting this calibration.

Start

Skip

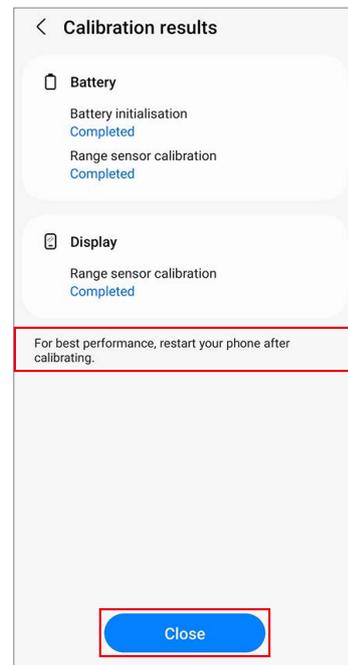
7 Check the results of each calibration item.

- **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

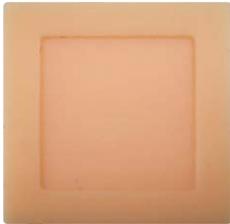
Whenever the screen is replaced, the optical fingerprint sensor must be calibrated to guarantee optimised fingerprint sensor performance for devices that have it.

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.

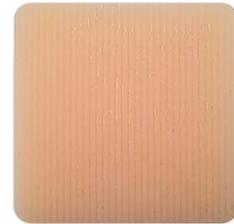
White calibration box



Black calibration box



3D fingerprint dummy rubber

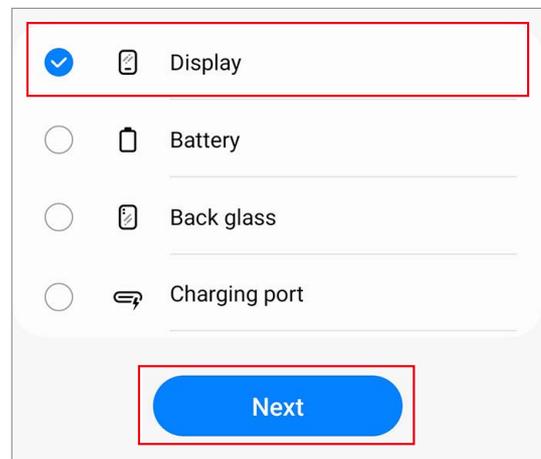


1 Launch the **Self Repair Assistant** app.

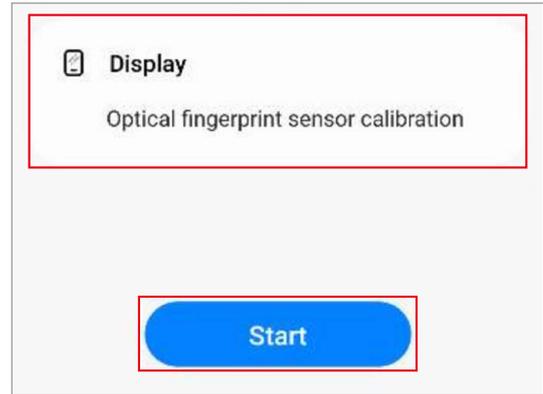
2 Tap **Display** → **Next**.



- 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.

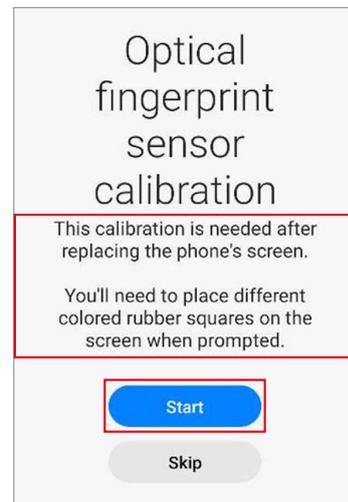


- 3 Check the part and calibration and then tap **Start**.



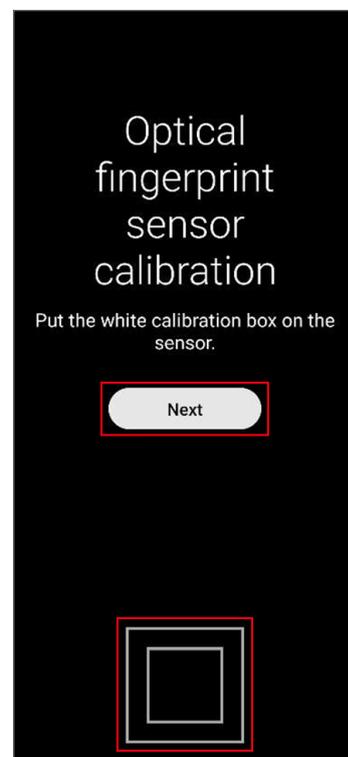
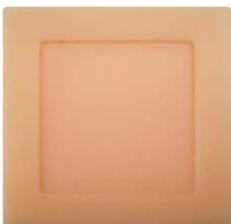
- 4 Read the on-screen instructions and tap **Start**.

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



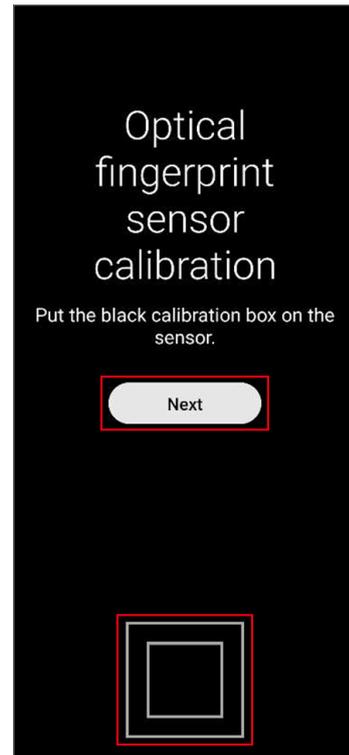
- 5 Put the white calibration box on the sensor area (below the square side) and push the rubber by applying force with your finger. Tap **Next** and keep pushing the rubber with your finger until you see the success message.

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



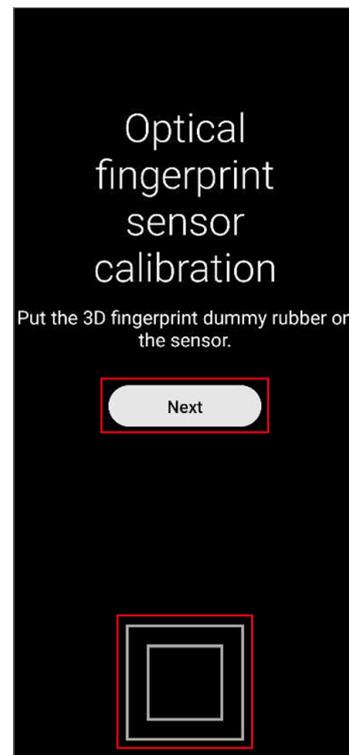
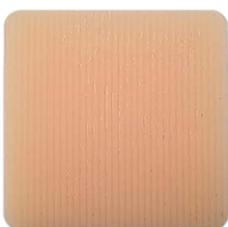
6 Put the black calibration box on the sensor area (below the square side) and push the rubber by applying force with your finger. Tap **Next** and keep pushing the rubber with your finger until you see the success message.

-  • 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.



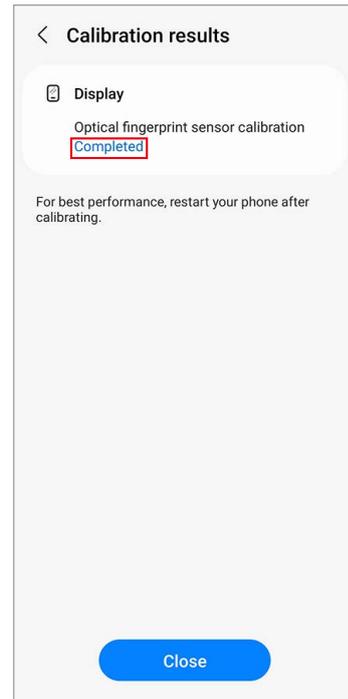
7 Put the 3D fingerprint dummy rubber on the sensor area (below the square side) and push the rubber by applying force with your finger. Tap **Next** and keep pushing the rubber with your finger until you see the success message.

-  • 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.

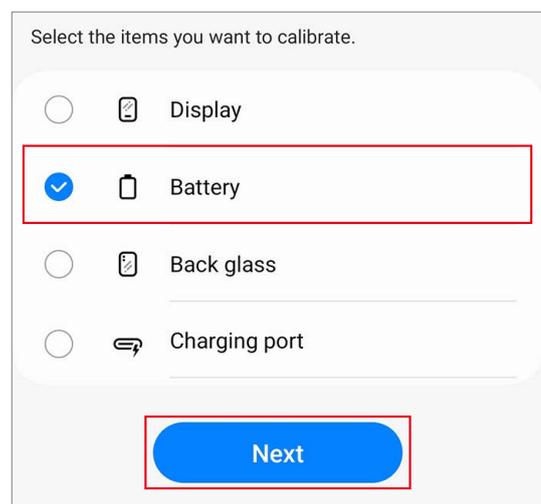
 **Completed** appears only when the calibration is successfully completed. If **Completed** does not appear, try calibrating again.



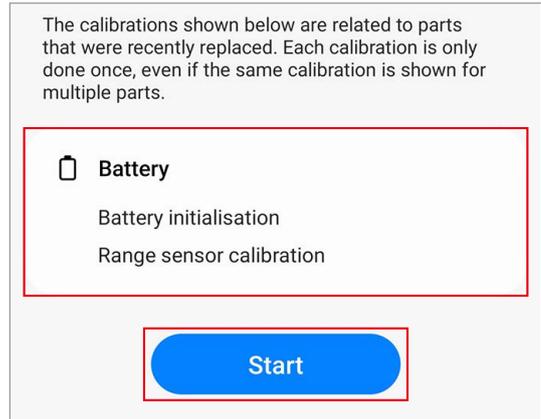
Resetting the Battery Cycle Count

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

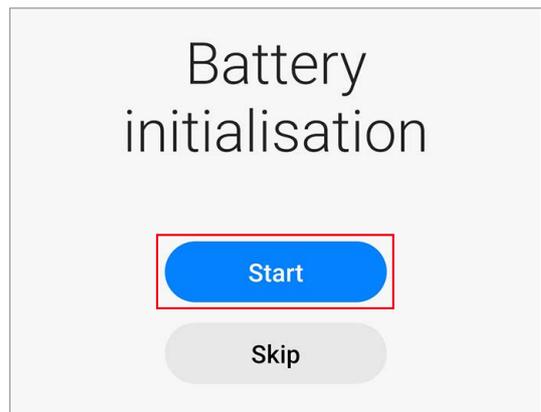
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced. Tap **Battery** → **Next**.



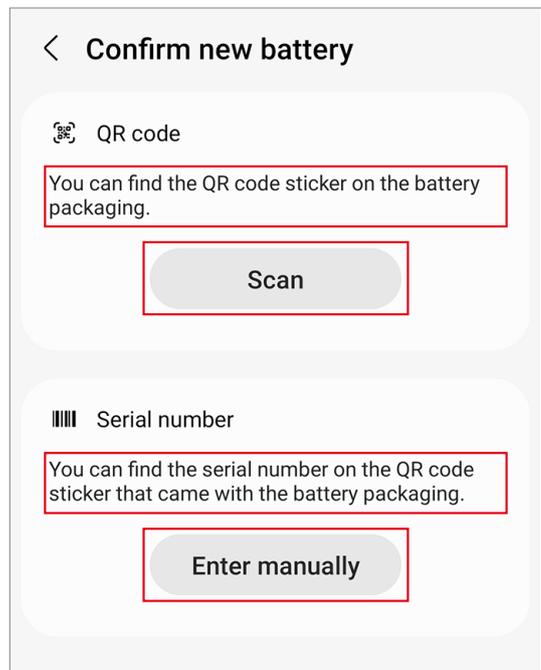
3 Check part and calibration and tap **Start**.



4 Tap **Start**.



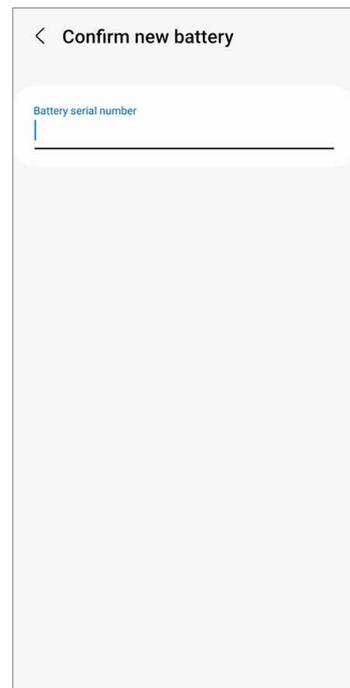
5 Read the on-screen instructions and tap **Scan** to scan the QR code, or tap **Enter manually** to enter the serial number manually.



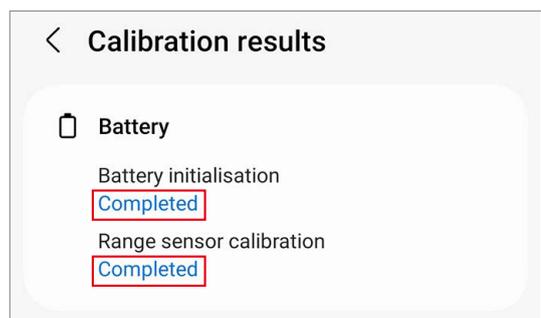
6 Scan the QR code or enter the serial number that appears on the battery package.

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.



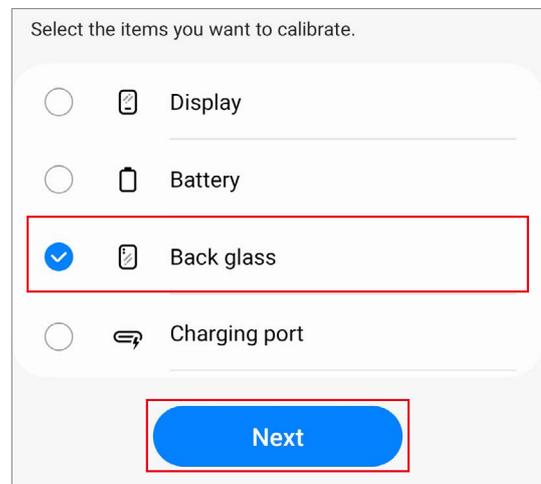
Range Sensor Calibration

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.

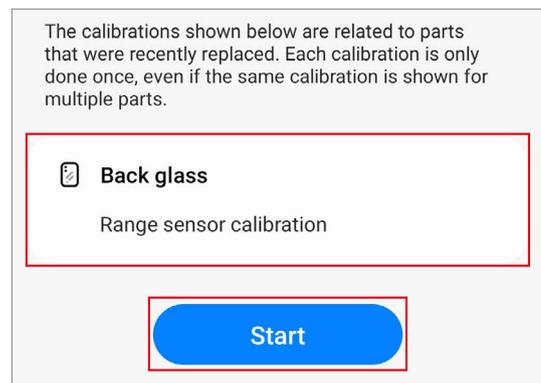
Range sensor calibration is available through the **Self Repair Assistant** app.

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

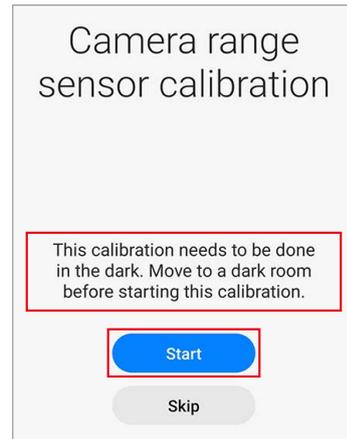
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



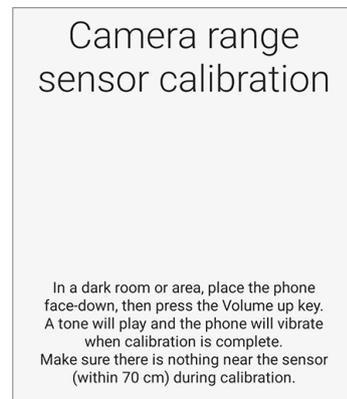
- 3 Check part and calibration and tap **Start**.



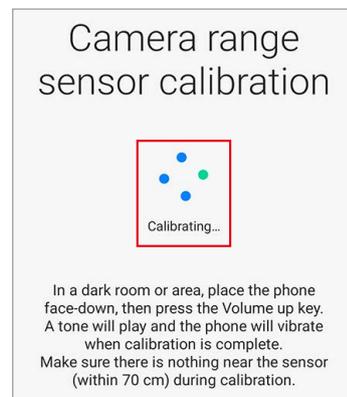
- 4 Read the on-screen instructions and tap **Start**.



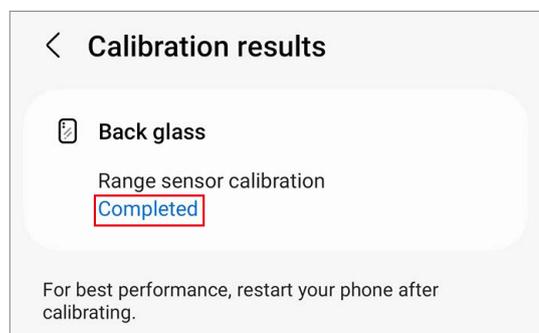
- 5 In a dark room or area, place the phone face-down, then press the Volume button.



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



- 7 Check the calibration result.



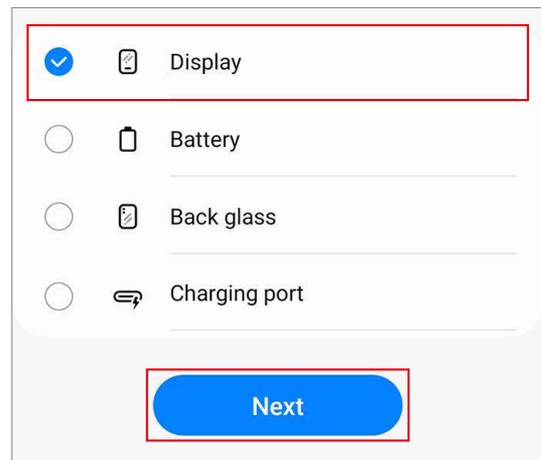
Touch Screen Panel Calibration

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

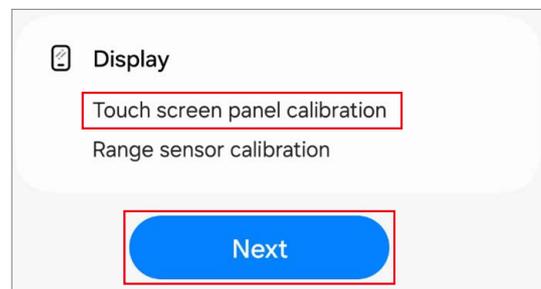
Touch screen panel calibration is available through the **Self Repair Assistant** app.

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

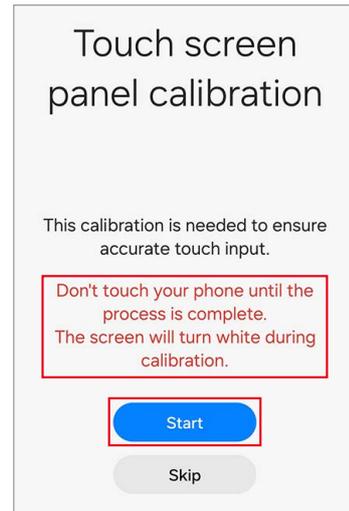
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



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



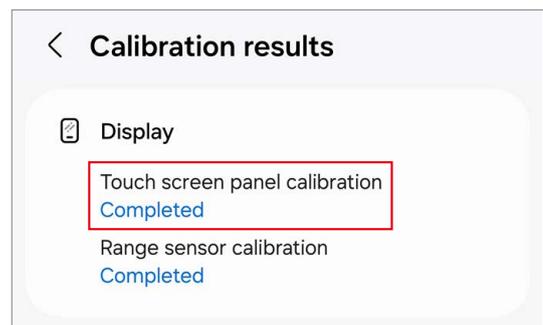
- 4 Read the on-screen instructions and tap **Start**.



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



- 6 Check the calibration result.

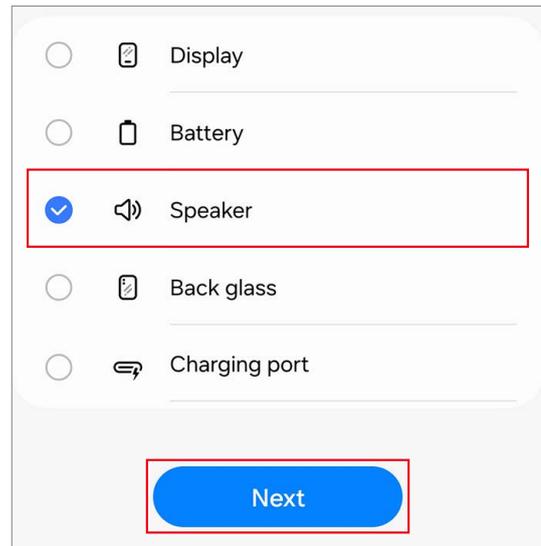


Speaker Calibration

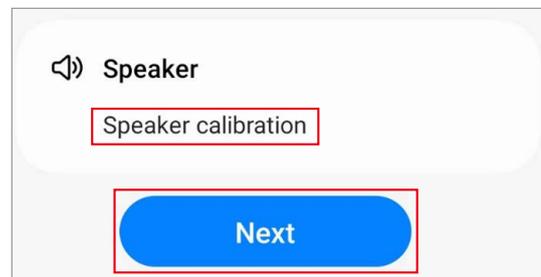
When replacing speakers, the speaker must be calibrated to guarantee optimised speaker performance for devices that have it.

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

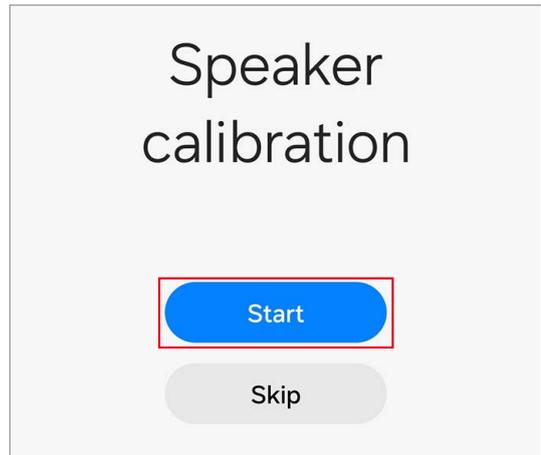
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



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



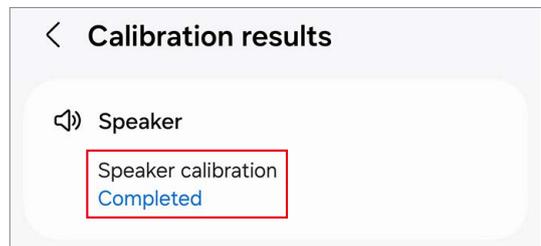
4 Tap **Start**.



5 The calibration will perform automatically.



6 Check the calibration result.



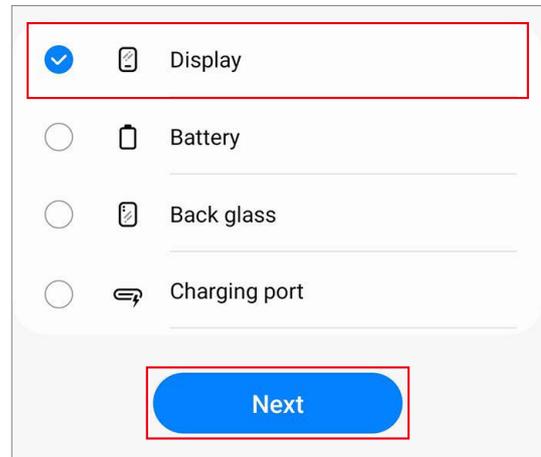
Under-display Camera Calibration (Fold Models Only)

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

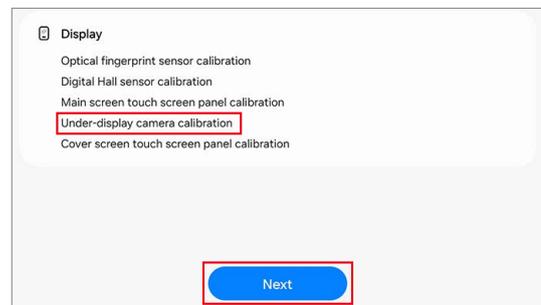
Under-display camera calibration is available through the **Self Repair Assistant** app.

 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.

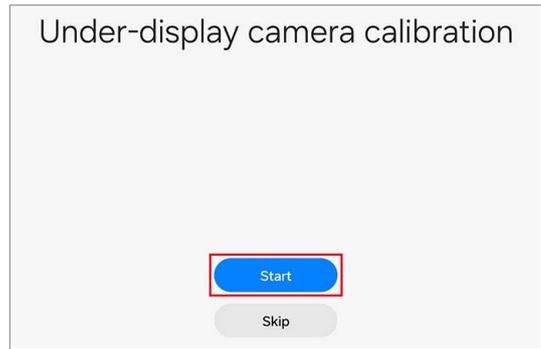
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



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

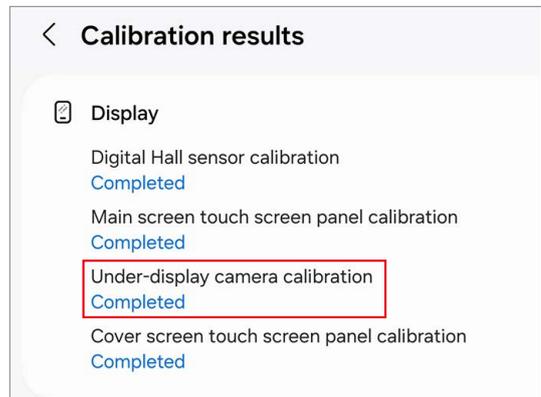


4 Tap **Start**.



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.



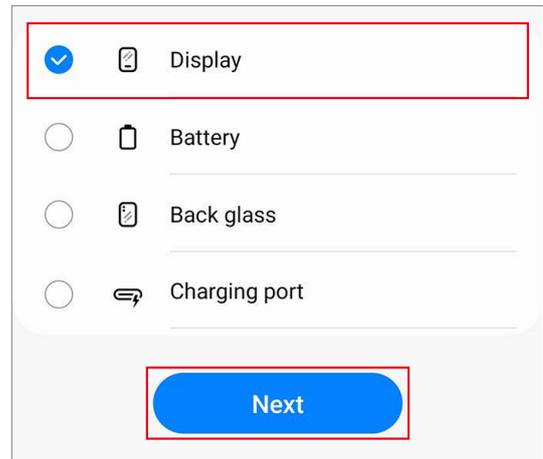
- This feature may not be available depending on the model. The availability of this feature can be automatically checked in the Self Repair Assistant app, so please follow the guidance of the Self Repair Assistant app.
- **For Fold models:** If the main screen does not turn on after being replaced (the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

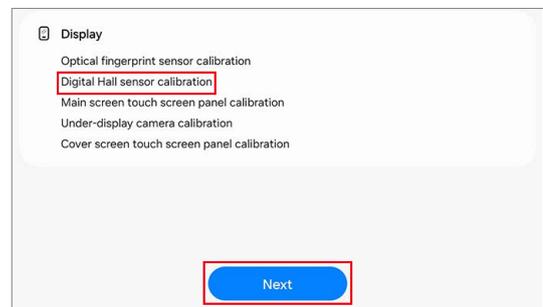
When calibration is complete, the main screen will turn on normally.

- **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.

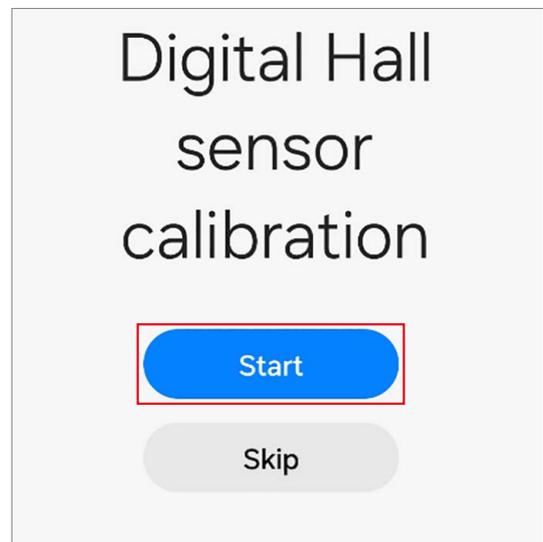
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



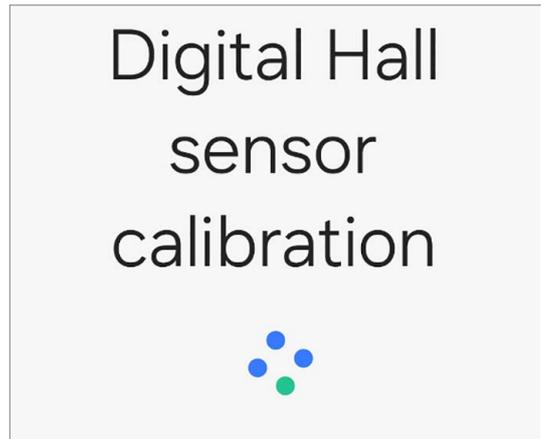
- 3 Check part and calibration and tap **Next**.



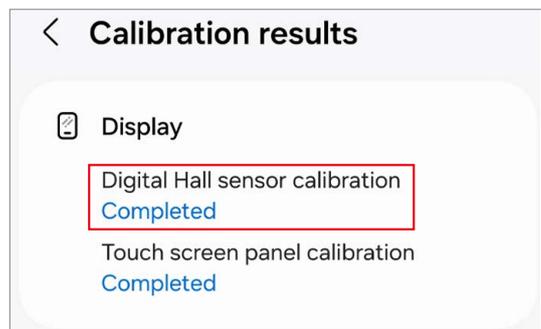
- 4 Tap **Start**.



5 The calibration will perform automatically.



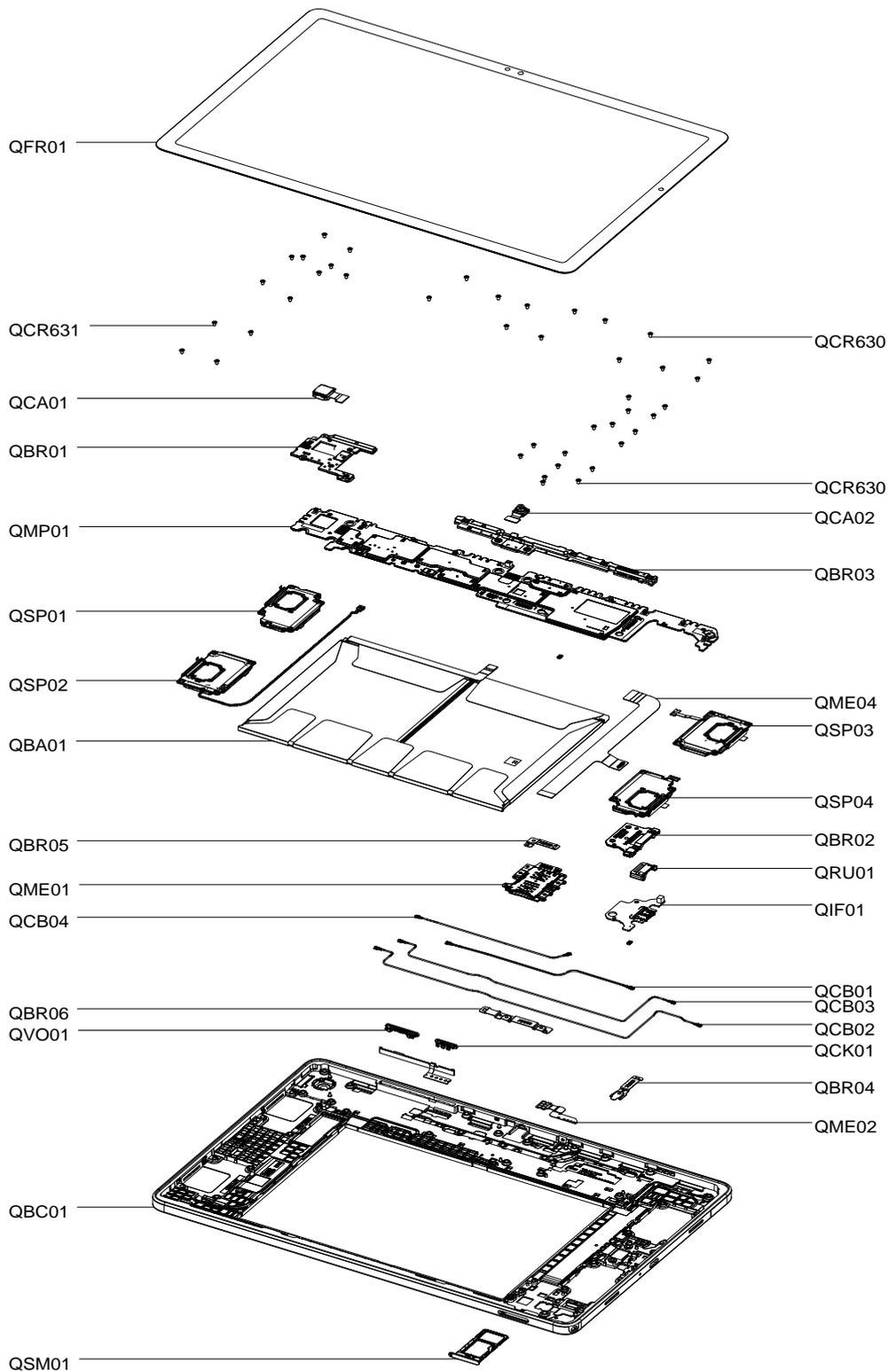
6 Check the calibration result.



Exploded View and Parts List

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

Exploded View



Parts List

Number	Name
QCR630	Screw 3630
QCB04	Antenna Flex Cable (Blue)
QCB03	Antenna Flex Cable (Black)
QCB02	Antenna Flex Cable (White)
QCB01	Antenna Flex Cable (Red)
QBR06	Screen Connector Metal Plate
QBR04	Top Metal Plate
QCR631	Screw 3631
QME04	Main Flex Cable (Charging Port to Main Board)
QME02	Headphone Jack
QBR05	Bottom Metal Plate
QRU01	Charging Port Rubber
QSP04	Speaker 4
QSP03	Speaker 3
QSP02	Speaker 1
QSP01	Speaker 2
QIF01	Charging Port
QBR02	Charging Port Bracket
QCA02	Front Camera
QCA01	Rear Camera
QSM01	SIM Card Tray
QBR03	Front Camera Bracket
QBR01	Rear Camera Bracket
QBC01	Back Cover Module
QMP01	Main Board (PBA)
QME01	SIM Card Socket

Number	Name
QBA01	Battery
QFR01	Screen
QCK01	Side Button
QVO01	Volume Button

Disassembly and Assembly

Tools for Disassembly and Assembly

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

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

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

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

Tool & Part Code	Image	Description
ESD Safe Tweezers and Round Tip Metal Tweezers		<p>Tool for handling connectors, cables, and other parts</p> <ul style="list-style-type: none"> Because it is possible to damage parts or components when using sharp tweezers, use tweezers made with plastic or rubber material. When removing a Vibrator Motor, it is required to use the round tip metal tweezers.
Heating Bag		<p>Tool for disassembling the screen and other parts</p>
Calibration Rubber for Optical Fingerprint Sensor		<p>Tool to calibrate the optical fingerprint sensor after replacing the screen</p> <ul style="list-style-type: none"> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.
Press Fixture		<p>Tool for pressing the screen or the battery</p> <ul style="list-style-type: none"> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.

Tool & Part Code	Image	Description
Bottom Press Tray		<p>Tool to place the device when pressing the screen or the battery using the press fixture</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>
Top Press Tray		<p>Tool to cover the screen when pressing the screen using 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>
Battery Rubber Pad		<p>Tool to cover the battery when pressing the battery using the press fixture</p> <p> This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.</p>

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 is currently available only in limited countries.
- The actual rented tool kit packaging may have different packaging than shown.

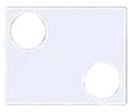


Fasteners (Adhesives and Materials) for Assembly

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

Item	Quantity	Image	Description
Screen Adhesive Tape	1		Double sided adhesive tape for attaching the screen
Screw 3630	22		<p>Screws for screen connector metal plate (2 ea)</p> <p>Screws for the front camera bracket (6 ea)</p> <p>Screws for the rear camera bracket (5 ea)</p> <p>Screws for main board (2 ea for Wi-Fi device, 3 ea for 5G or LTE device)</p> <p>Screws for charging port bracket (4 ea)</p> <p>Screws for headphone jack (2 ea)</p>

Item	Quantity	Image	Description
Screw 3631	20		Screws for speaker 1 (4 ea) Screws for speaker 2 (4 ea) Screws for speaker 3 (4 ea) Screws for speaker 4 (4 ea) Screw for SIM Card socket metal plate (1 ea) Screws for SIM Card socket (3 ea)
Front Camera Conductive Tape	1		Conductive tape attached to front camera bracket
Rear Camera Conductive Tape	1		Conductive tape attached to rear camera bracket
Headphone Jack FPCB Adhesive Tape	1		Tape attached to FPCB of the headphone jack

Item	Quantity	Image	Description
Speaker1 Foam Tape	1		Foam tape attached to the speaker1
Speaker 2 Foam Tape	1		Foam tape attached to the speaker 2
Speaker 2 FPCB Adhesive Tape	1		Double sided adhesive tape for attaching the FPCB of speaker 2
Speaker 3 FPCB Adhesive Tape	1		Double sided adhesive tape for attaching the FPCB of speaker 3
Speaker 4 FPCB Adhesive Tape	1		Double sided adhesive tape for attaching the FPCB of speaker 4

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.
- If you have an S Pen purchased separately, remove the S Pen.
- Wear an anti-static wrist strap and connect it to the grounded ESD safe mat.

Before reassembling:

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

For all cases of broken glass:

- 1 Wear safety glasses and cut-resistant gloves.
- 2 To prevent injuries and scattering caused by broken glass, attach the tape on the broken glass.
 -  If your device's glass breaks, be careful not to injure your hands or other body parts on debris.
- 3 Press the tape with strong force so that it is strongly attached to the broken glass.
 -  Wait until the adhesive between the tape and the glass is strengthened.
- 4 Follow the disassembly steps in this guide.

SIM Card Tray

Disassembly

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





Reassembly

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

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



Screen

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

Disassembly

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

1 Heat the microwaveable heating bag for 70 seconds in a 700 W microwave and apply it on the top edge of the screen for 3 minutes.

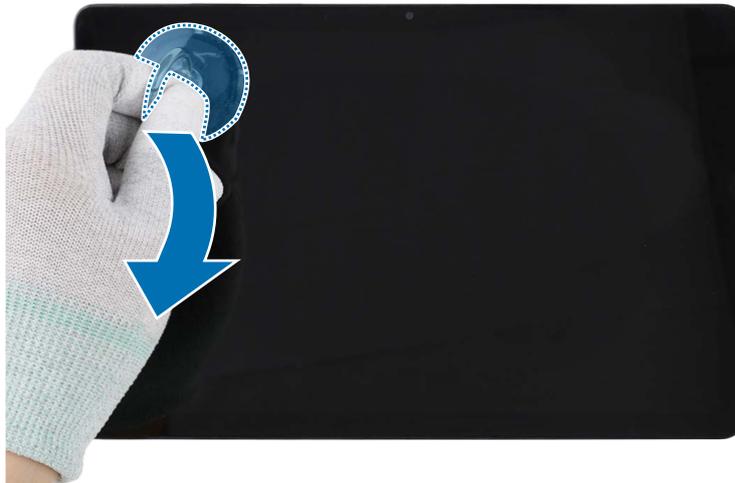
- ⚠
 - It is possible for the device or battery to be damaged by heat.
 - Do not heat the device in a microwave. Doing so could cause an explosion.
 - If your device's glass breaks, the debris can cause injury to your hands or other body parts.
 - For your safety, attach the tape on the broken glass 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.)
- ✔ If the heating bag is cooled down, heat the microwaveable heating bag additionally, and apply it on the screen to further soften the adhesive. When reheating, it should be heated no longer than 30 seconds.



2 Place the suction cup on the top left edge of the screen, and lift it upwards carefully.

- ❗ • As the screen can be damaged by excessive force, be careful not to damage the 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 screen to further soften the adhesive. When reheating, heat the heating bags for 30 seconds



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



Be careful when inserting the opening pick too deeply as this could damage the internal circuitry, leading to problems such as abnormal operation of the screen.



- As the screen can be damaged by excessive force, be careful not to damage the screen.
- As the internal circuitry can be damaged, do not insert the opening pick more than 1-2 mm.
- In case of bottom edge side of screen, very weak circuits are located very close to the edge. Just insert only about 1 mm.

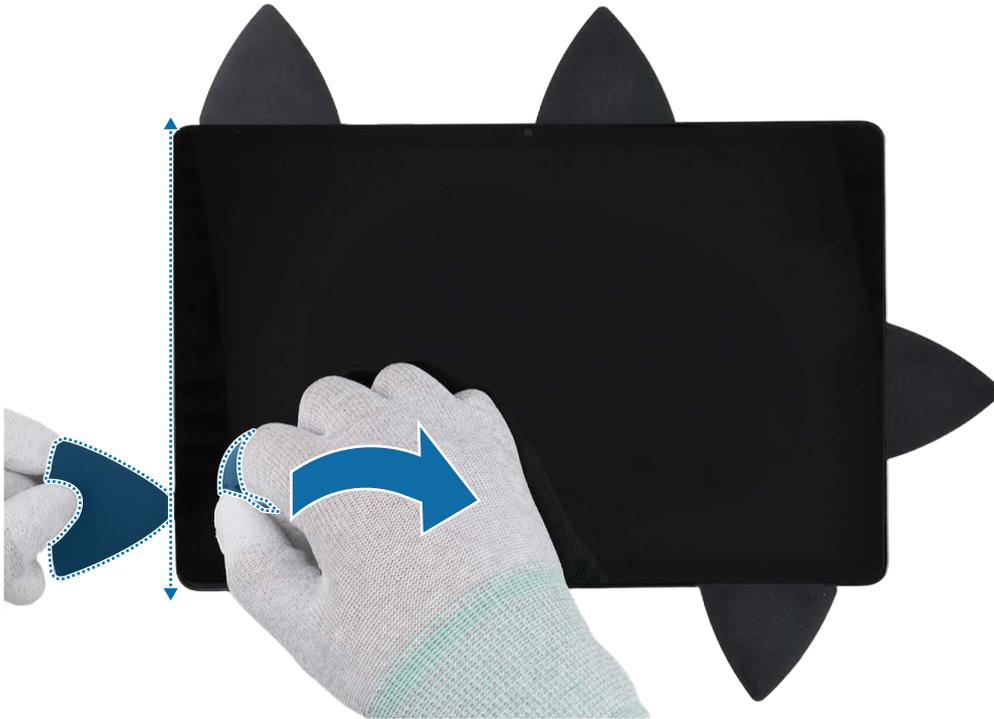


- Make sure to leave the opening pick inserted in the edges to prevent the adhesive from resealing. It is recommended that a larger area of the opening pick be inserted.
- If you have trouble creating a gap, heat the microwaveable heating bag additionally, and apply it on the screen to further soften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

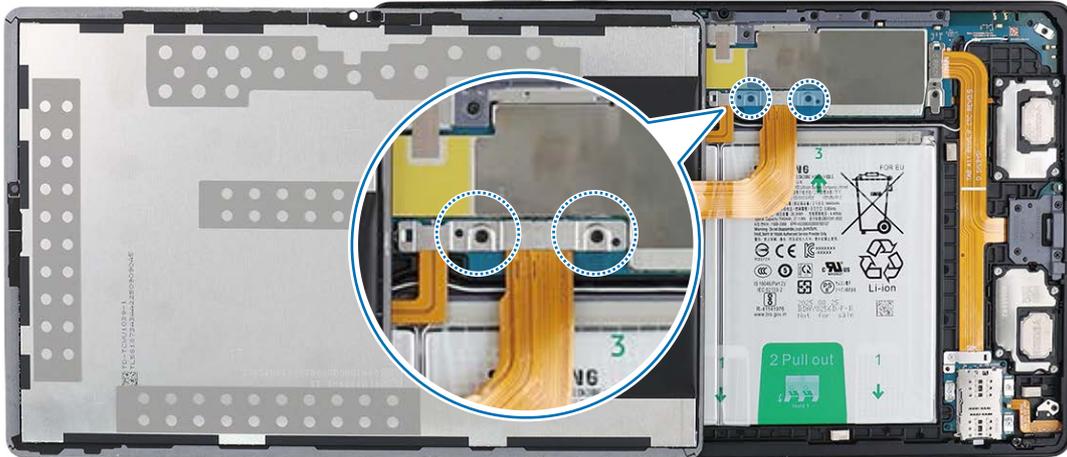




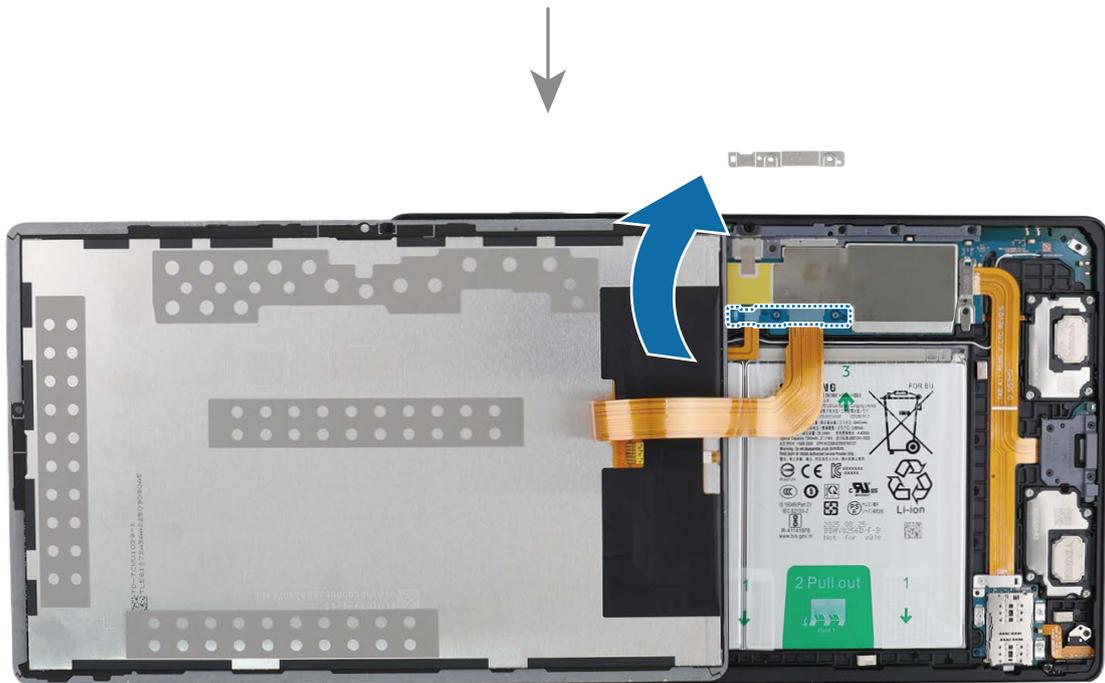
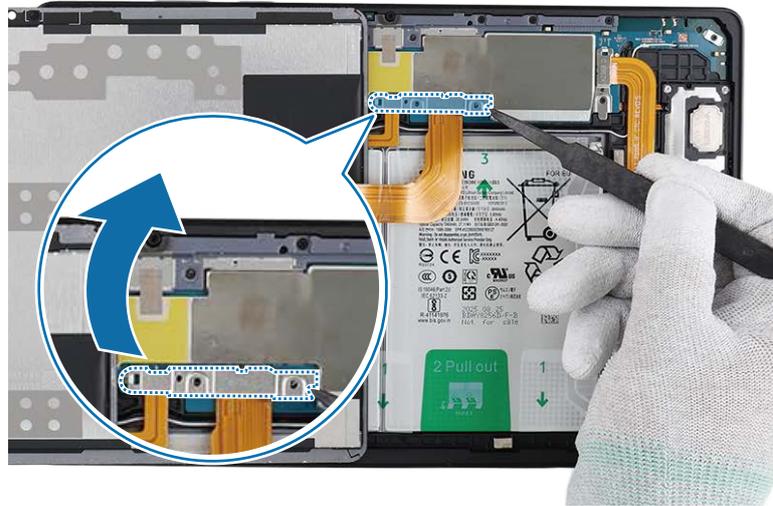




- 4 Check and remove the screws at the 2 different points on the screen connector metal plate using a cross-head screwdriver.
 - ⚠ Be careful not to damage the cable and connector.
 - 📝 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.

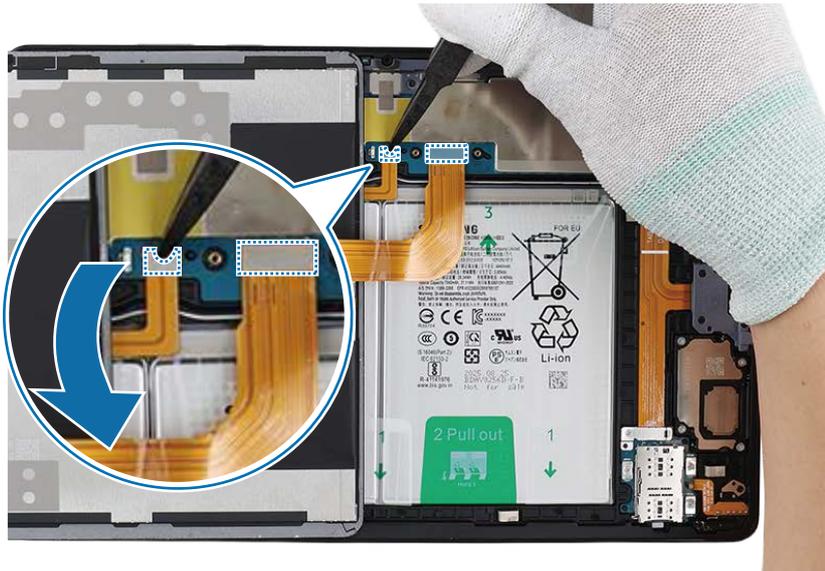


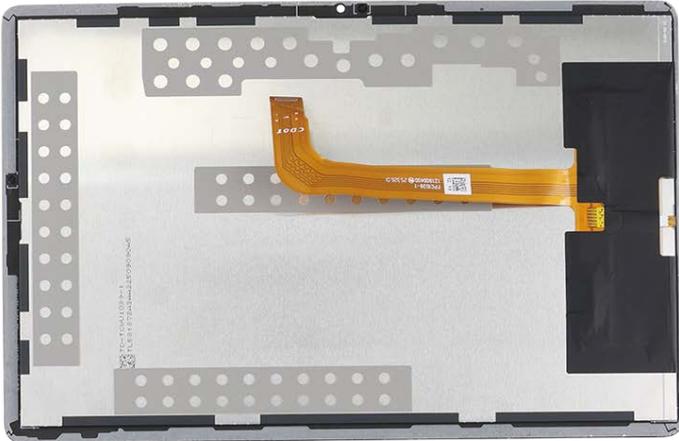
- 5 Using the tweezers, separate the screen connector metal plate from the device frame.



6 Before removing the screen completely, separate the battery connector and the screen flex cable connector with the tweezers. Lift the screen and separate it completely from the device frame.

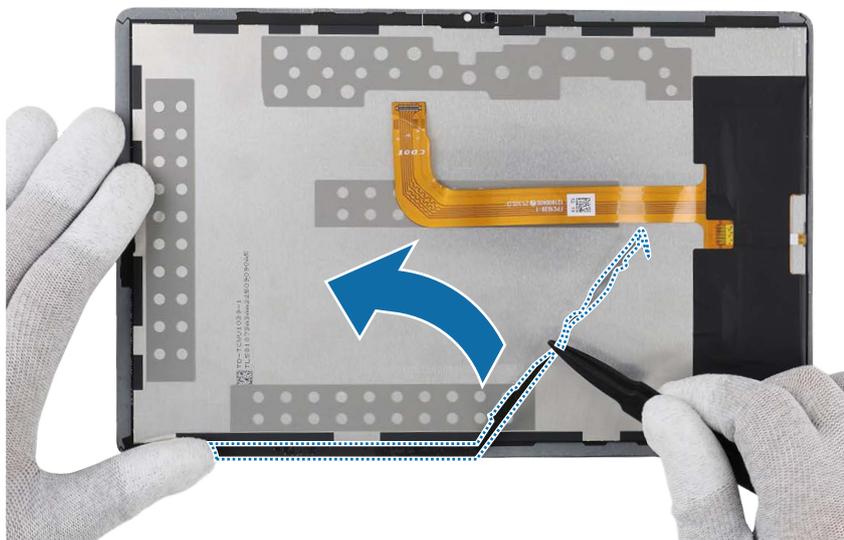
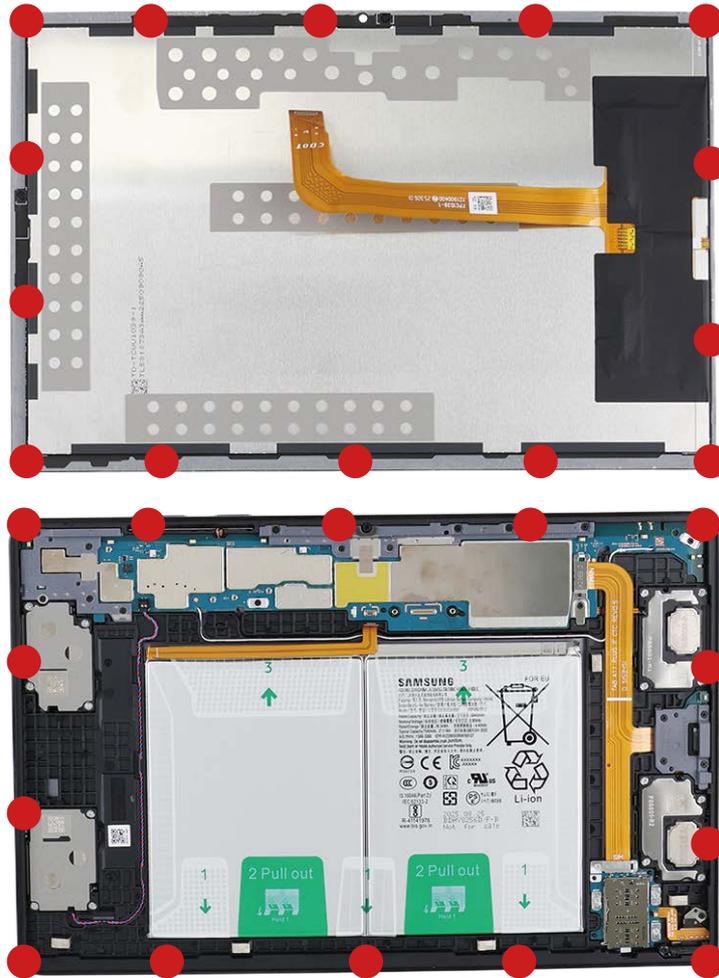
- ⚠ • Be sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.
- ⚠ • Do not forget to separate connectors.
- When removing the connectors, be careful not to damage the cable.



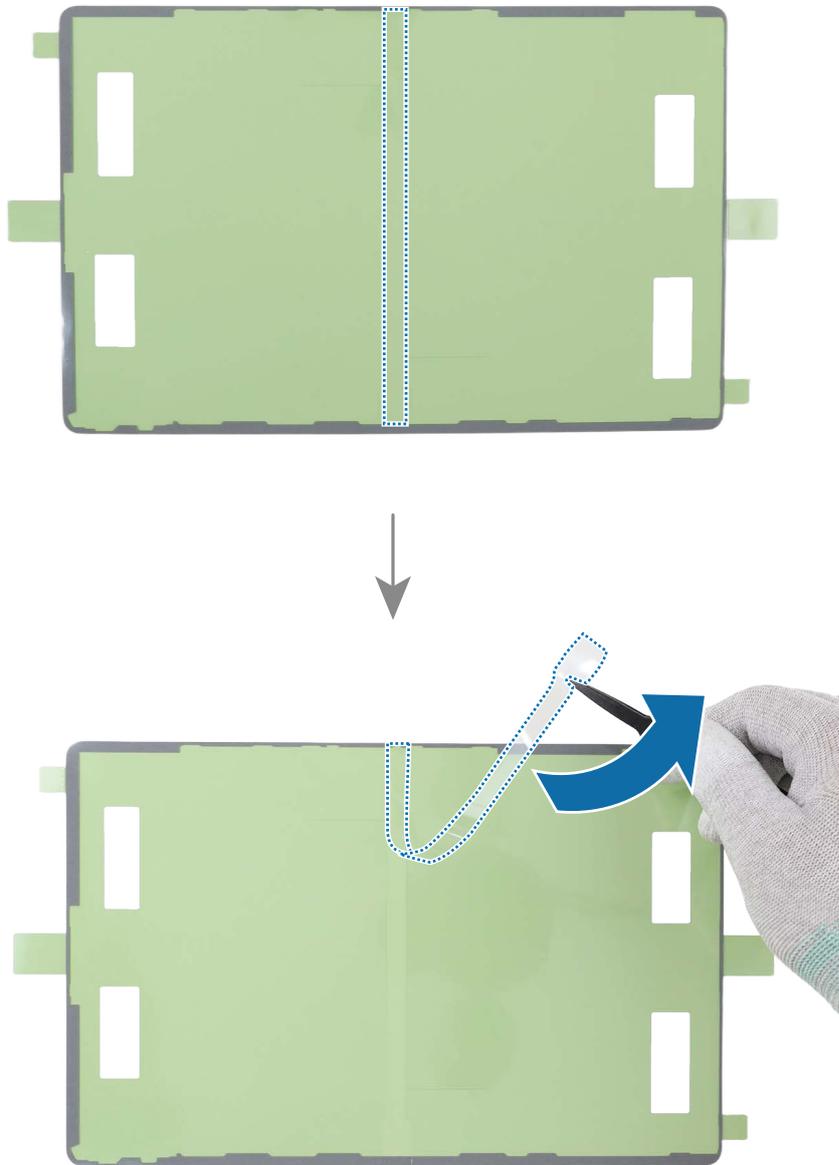


Reassembly

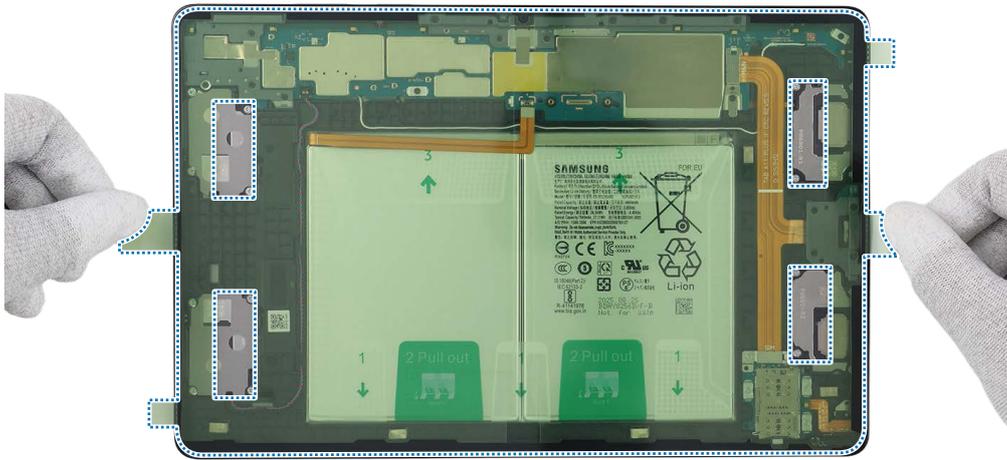
-  • Leaving screws inside the device may damage internal components, such as the battery.
 - When assembling, be extra careful not to leave any unassembled screws inside the device.
 -  Before attaching the screen, make absolutely sure that there are no screws, miscellaneous parts, or other foreign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



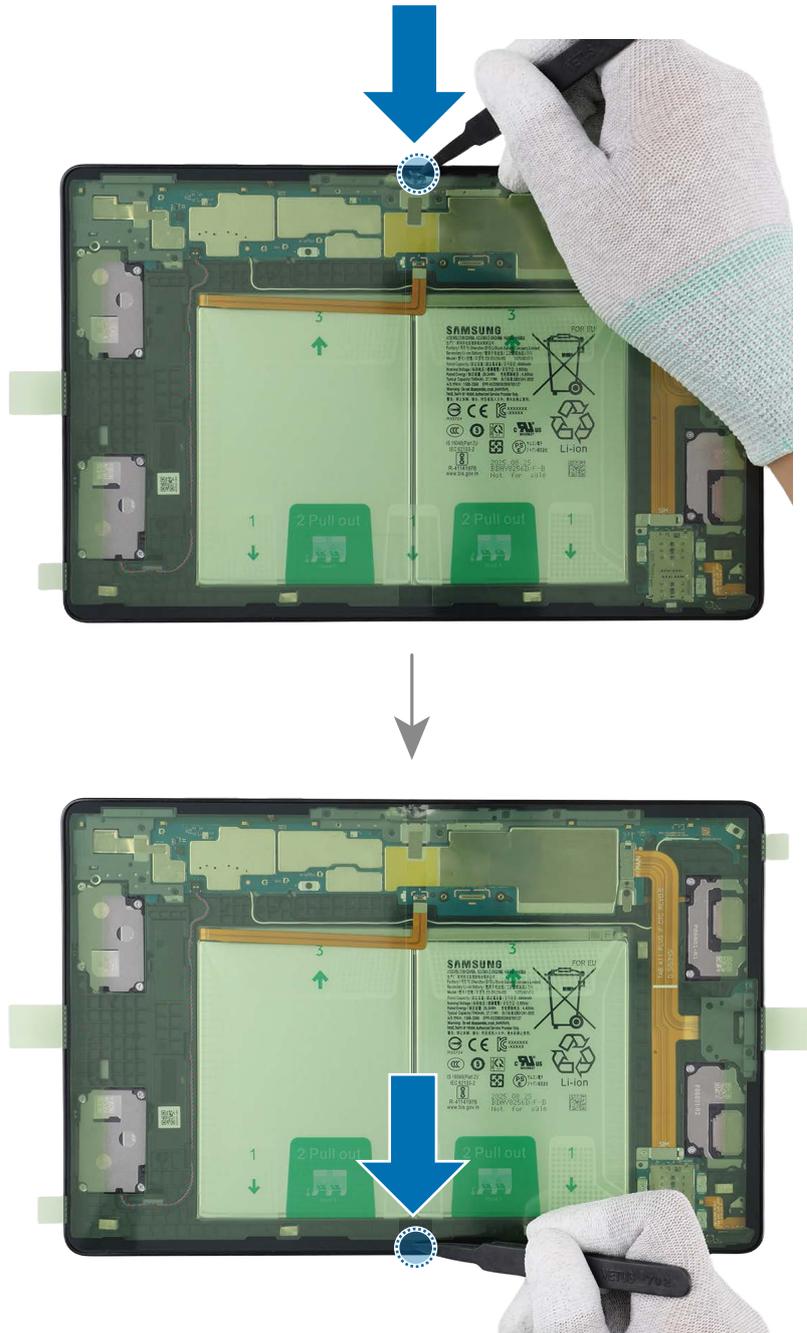
- 2 Remove the inner vertical transparent film on the centre of the new screen adhesive tape.



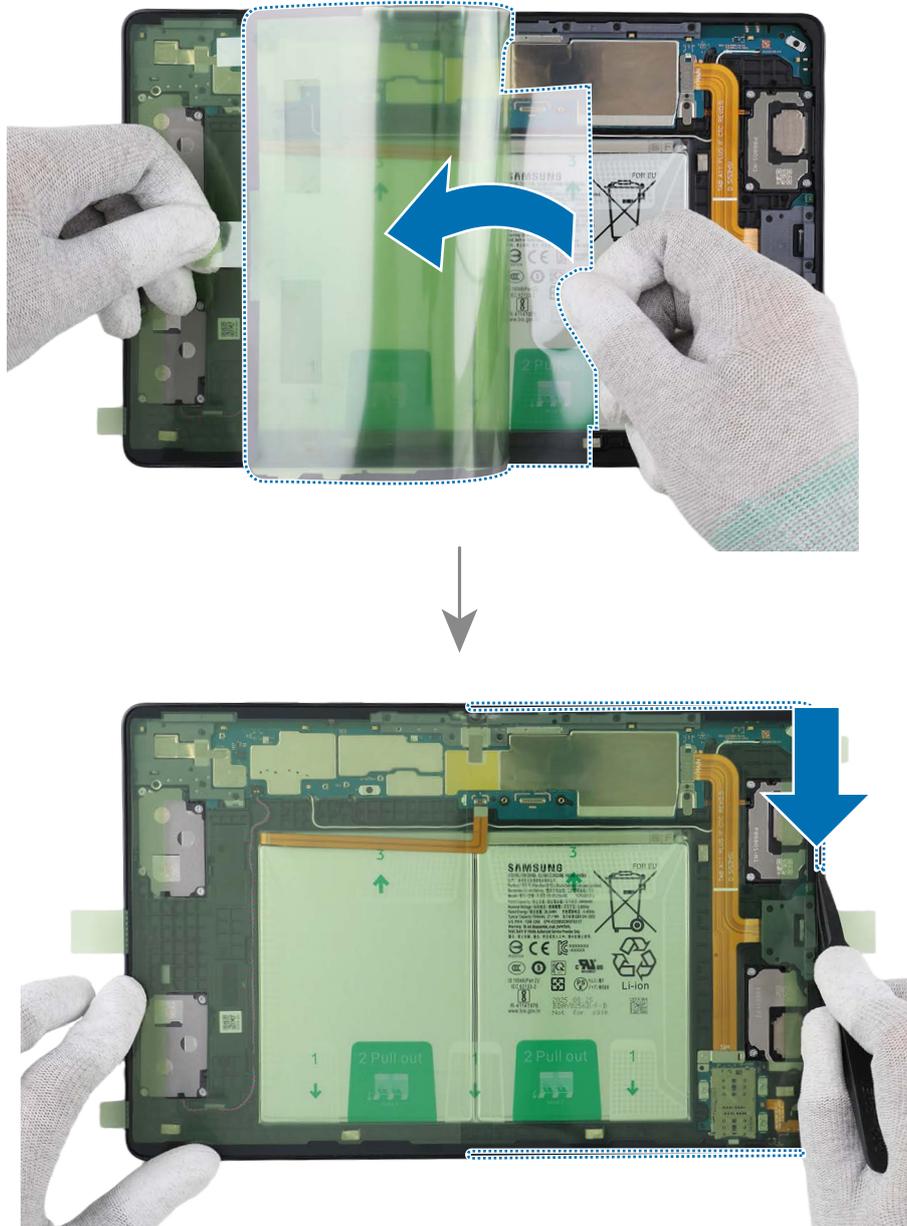
3 Align the adhesive tape precisely on the device frame and attach it.



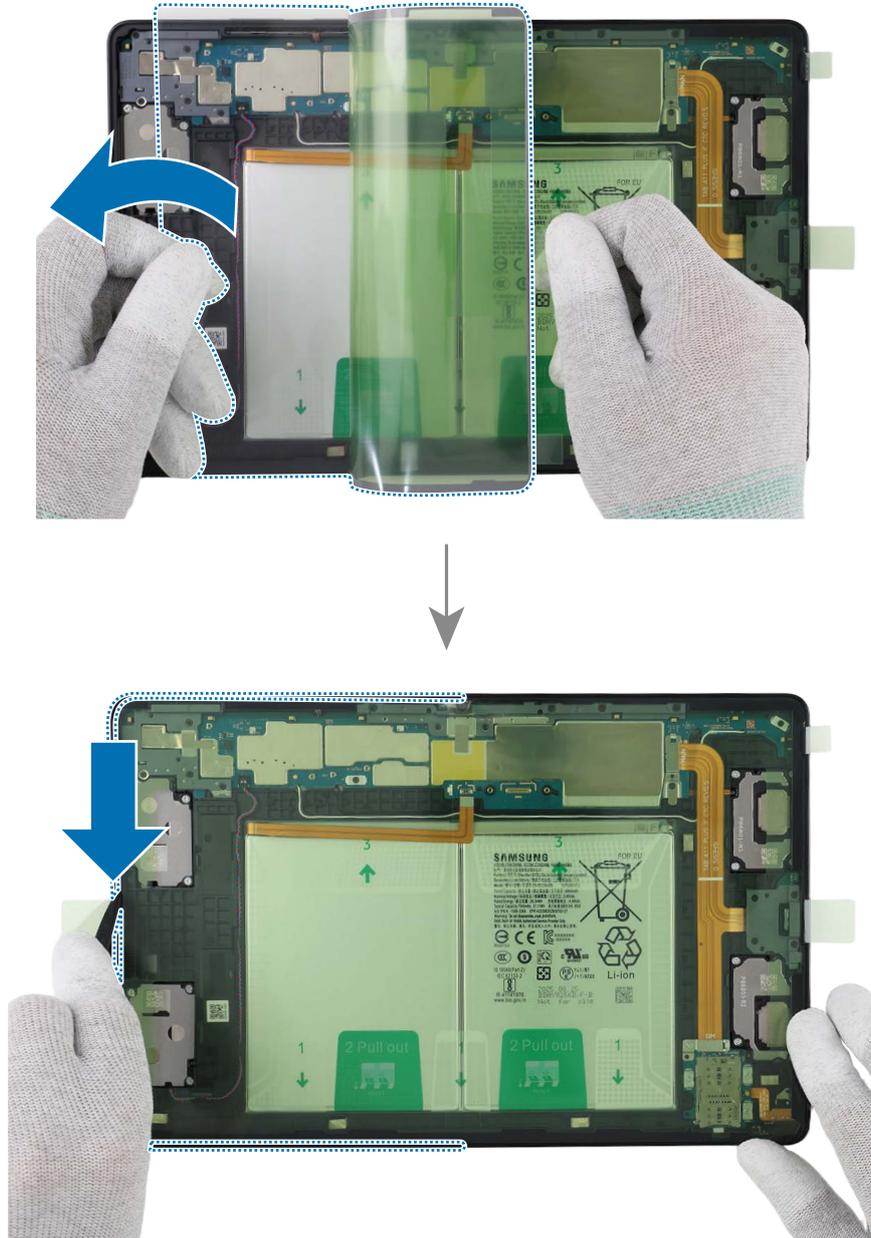
- 4 With the tweezers, gently press down the upper and lower middle of the adhesive tape.



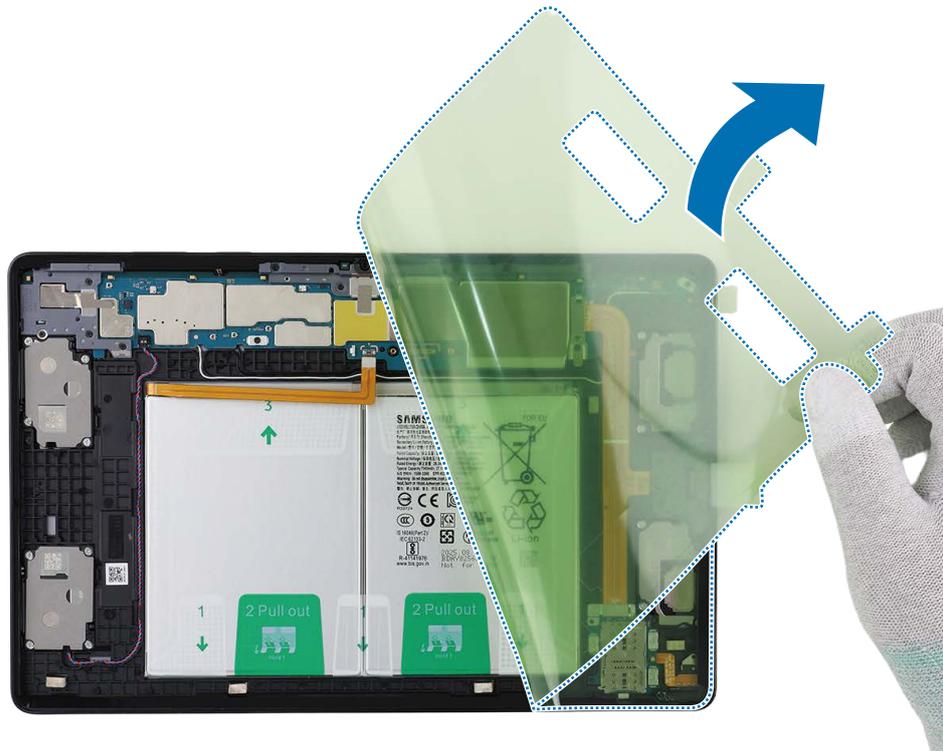
- 5 Lift the right side of the adhesive tape up and remove the inner transparent film from the centre of the inside. Align the tape precisely on the right of device frame so that the exposed tape is exactly attached. Attach the tape and gently press down the edges of the tape to ensure a secure fit with your fingers and the tweezers.



- 6 Lift the left side of the adhesive tape up and remove the inner transparent film from the centre of the inside. Align the tape precisely on the left of device frame so that the exposed tape is exactly attached. Attach the tape and gently press down the edges of the tape to ensure a secure fit with your fingers and the tweezers.

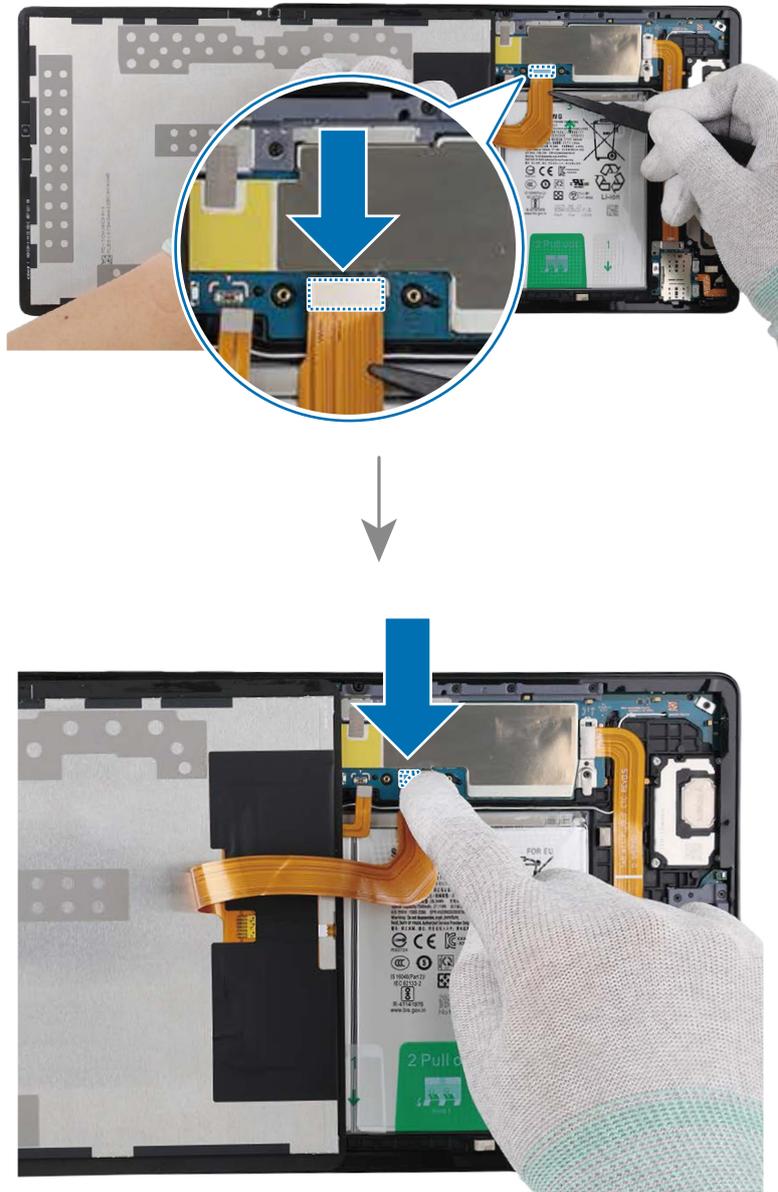


- 7 With holding the film handle of tape, remove the transparent film from the adhesive tape completely.



8 Leave the inside of the screen visible and connect the screen flex cable connector to the main board. Press down the connector softly with your fingers.

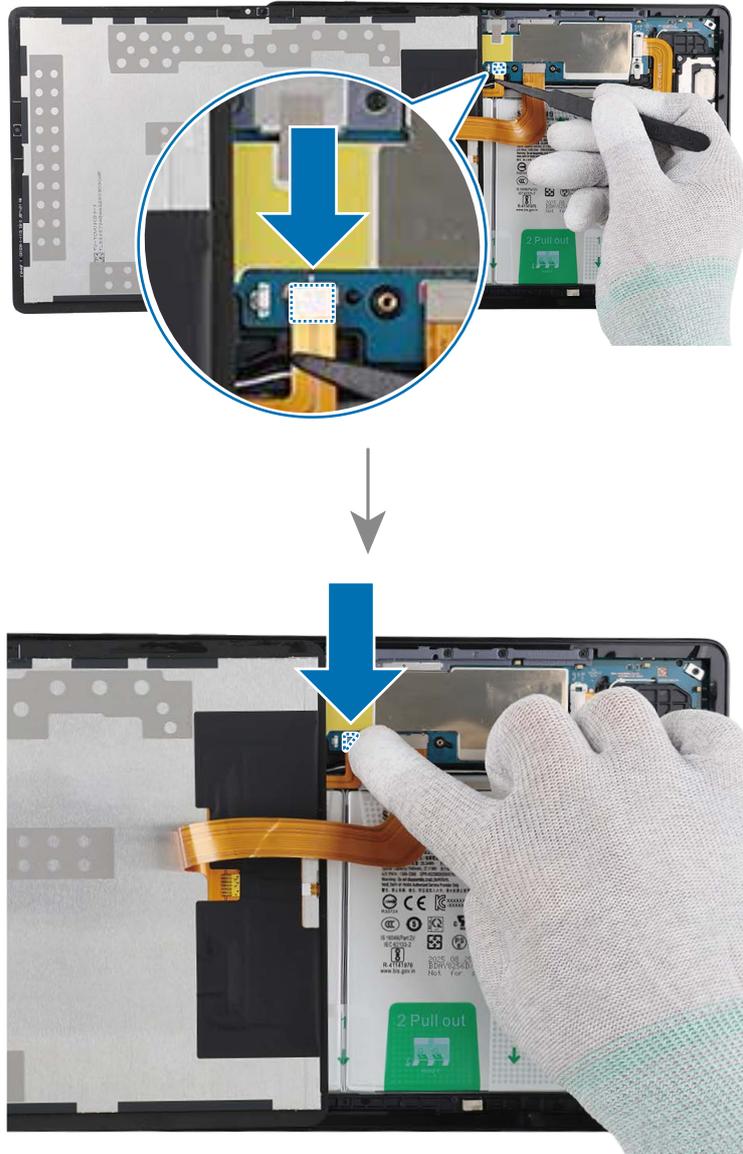
- ⚠ Do not forget to connect the connector.
- When connecting the connector, be careful not to damage the cable.



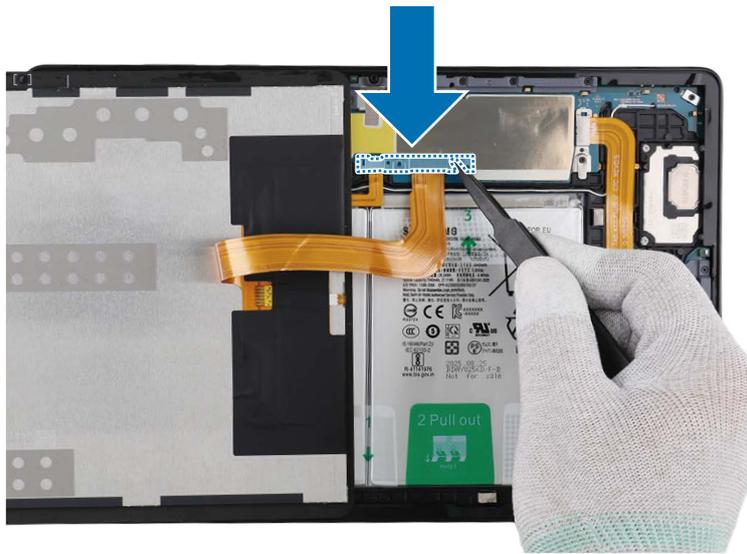
9 Connect the battery connector to the main board. Press down the connector softly with your fingers.

⚠ Be careful not to damage the battery.

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

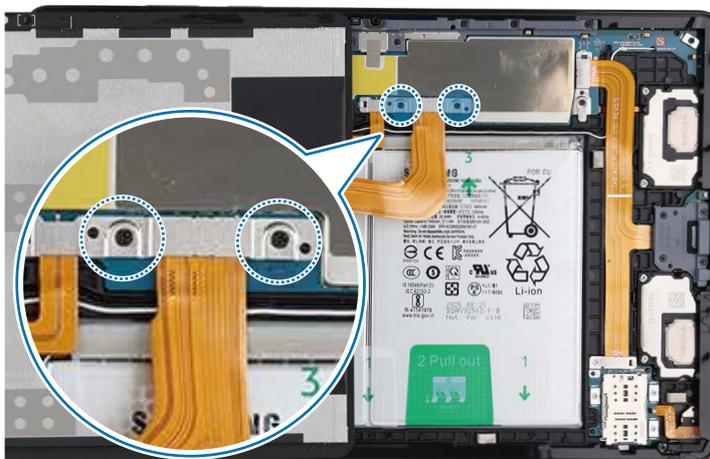


10 Assemble the screen connector metal plate to the device frame.



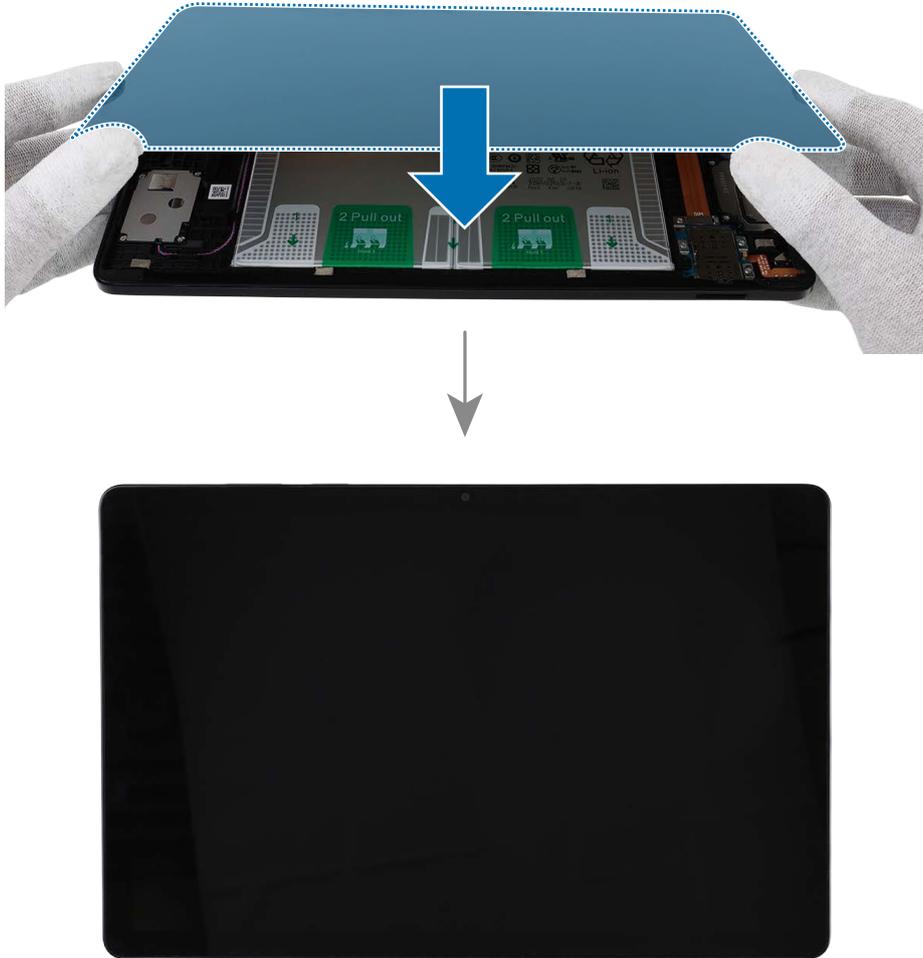
11 Check the screw 3630 (2 ea) and fasten them to the metal plate using a cross-head screwdriver.

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



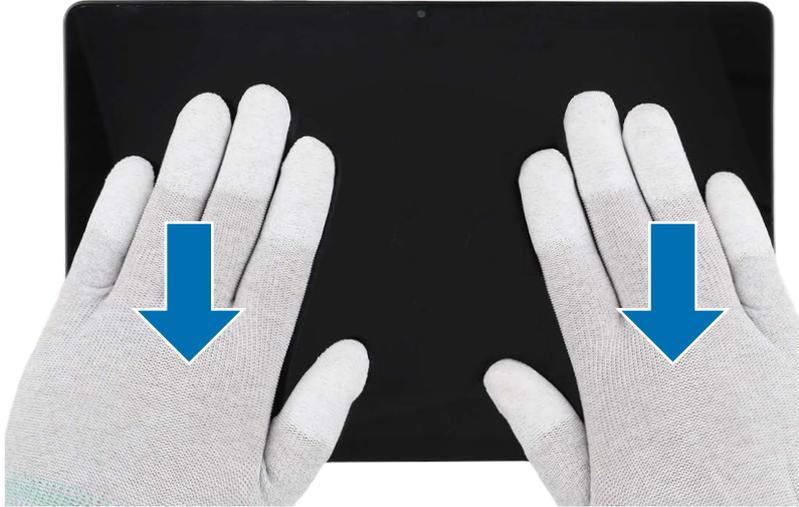
12 Turn the screen slowly over back to its original state and attach it to the device frame.

⚠ Be careful not to damage the screen.



13 Attach the screen and press down on the edges of the screen evenly in order to attach the screen perfectly. Check the gap between screen and the device frame.

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



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

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

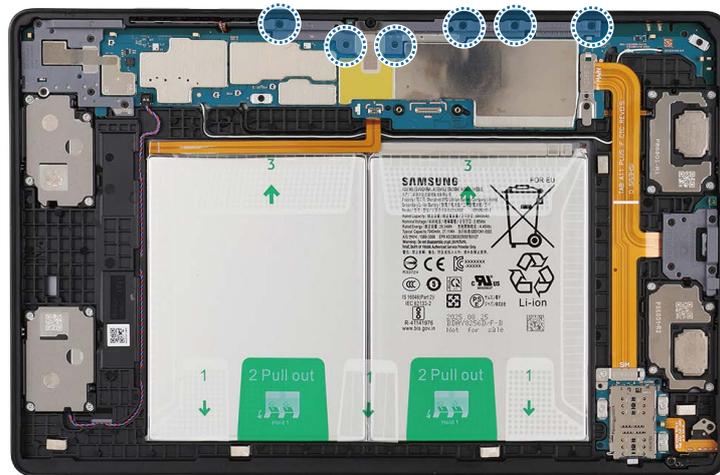
Front Camera

Disassembly

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

1 Check the 6 screws on the front camera bracket and remove them using a cross-head screwdriver.

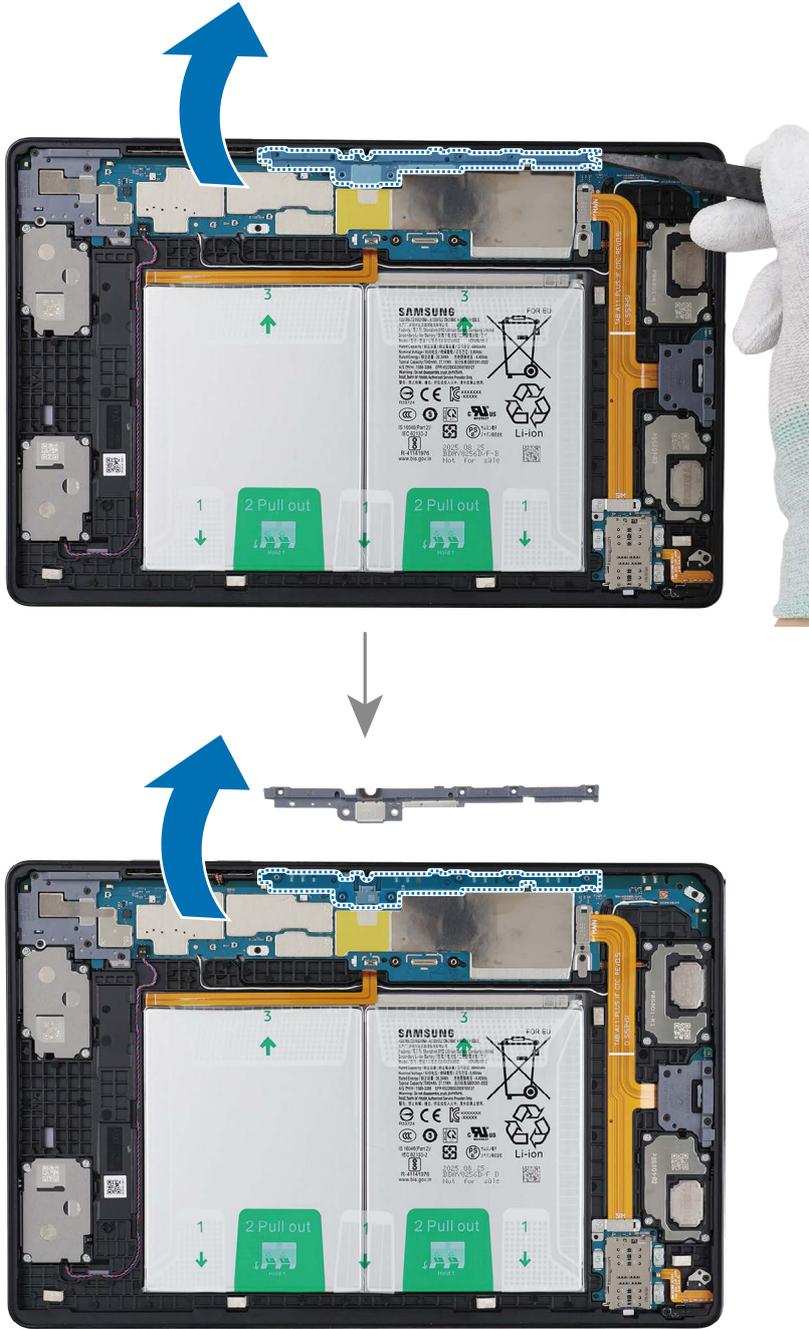
 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



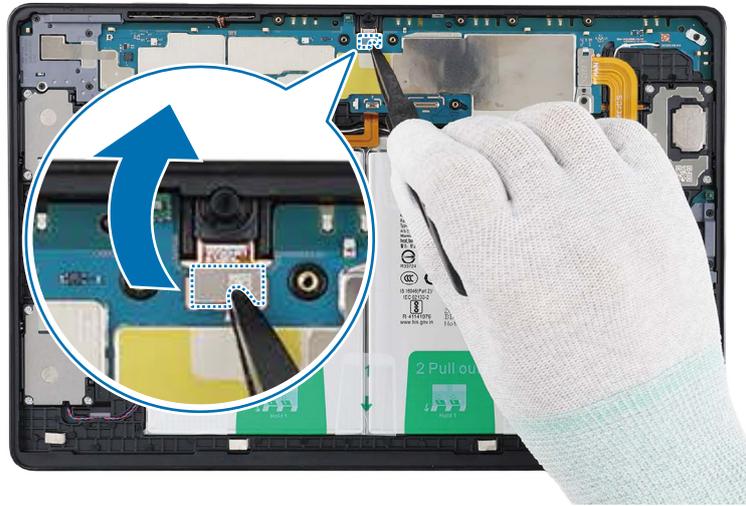
- 2 Using the tweezers, remove the conductive tape from the front camera bracket.
Using the tweezers, remove the front camera bracket.

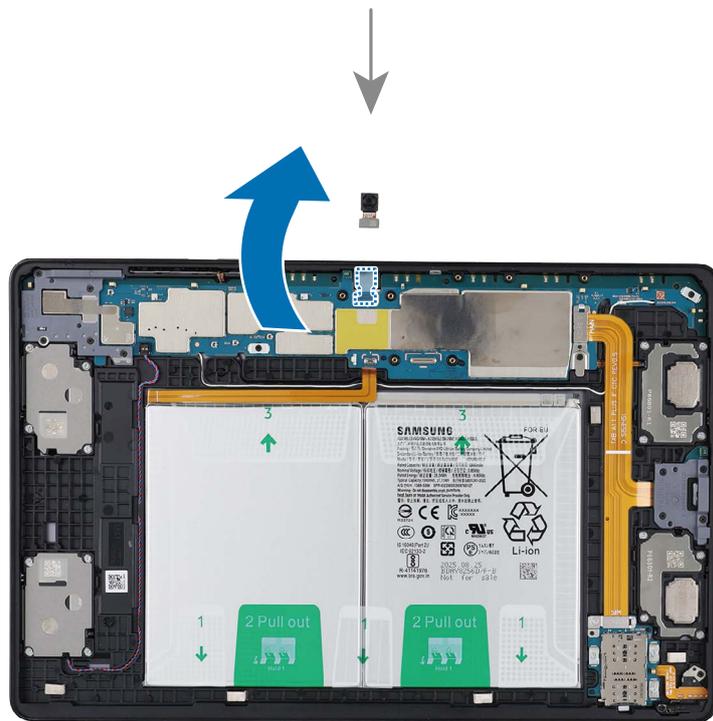
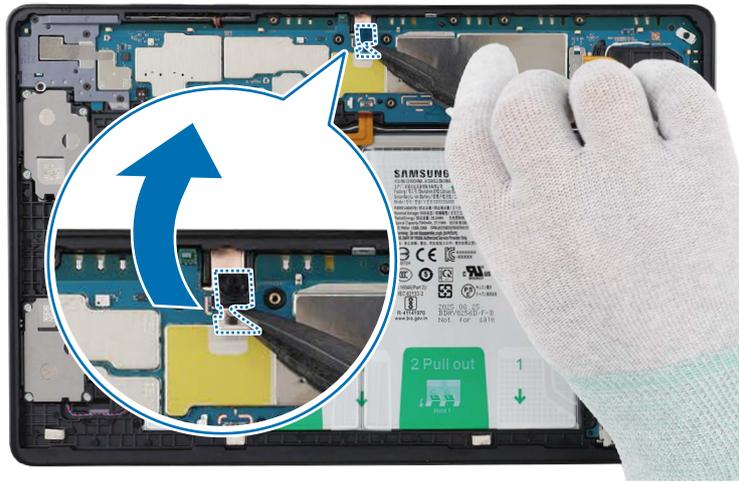
⚠ Be careful not to damage the bracket and the near components.





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



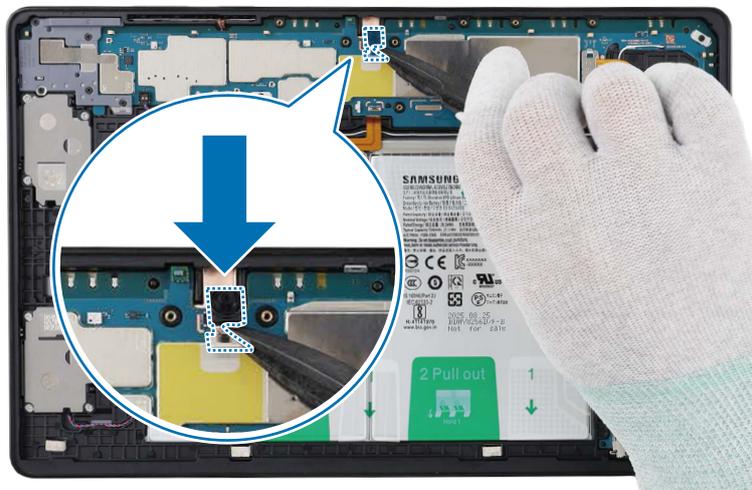


Reassembly

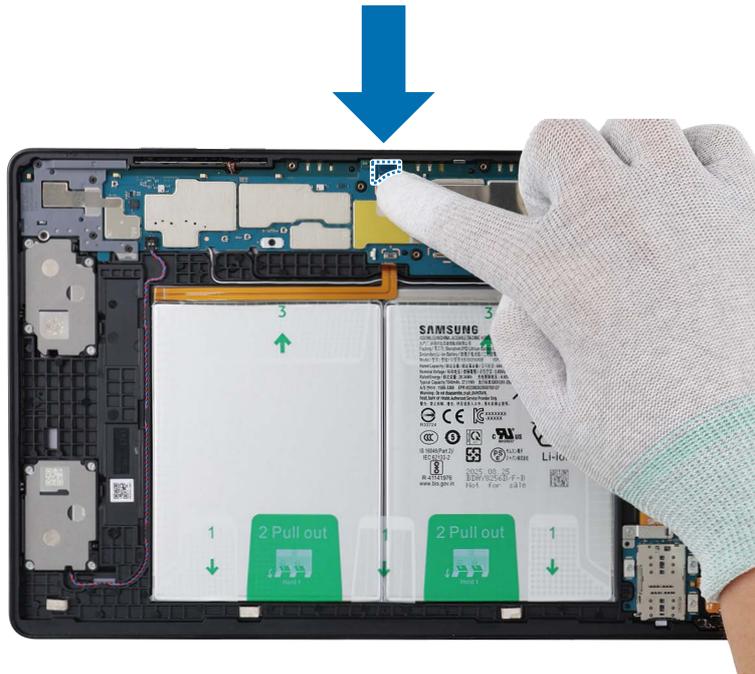
 Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

1 Remove all release films from the new front camera module. Using the tweezers, gently insert the front camera into the camera hole so that the lens faces forward.

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

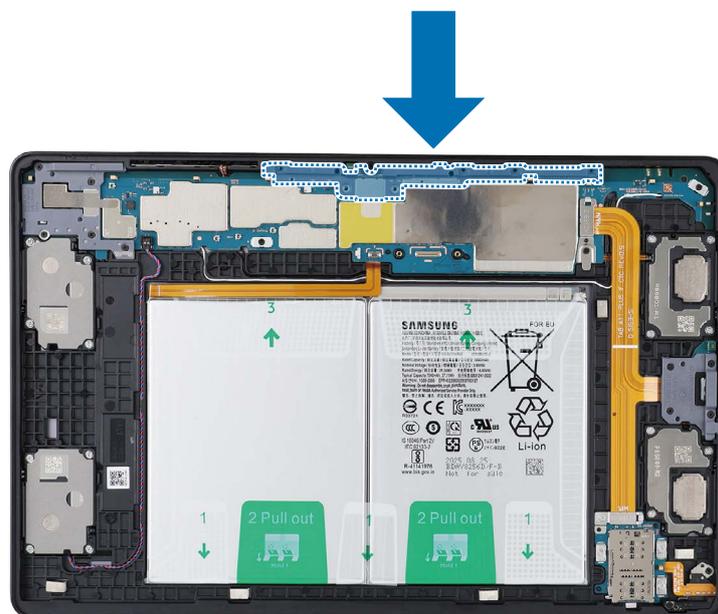


2 Connect the front camera connector carefully on the main board.



3 Using the tweezers, place the front camera bracket to the device frame and press down on it in its position smoothly.

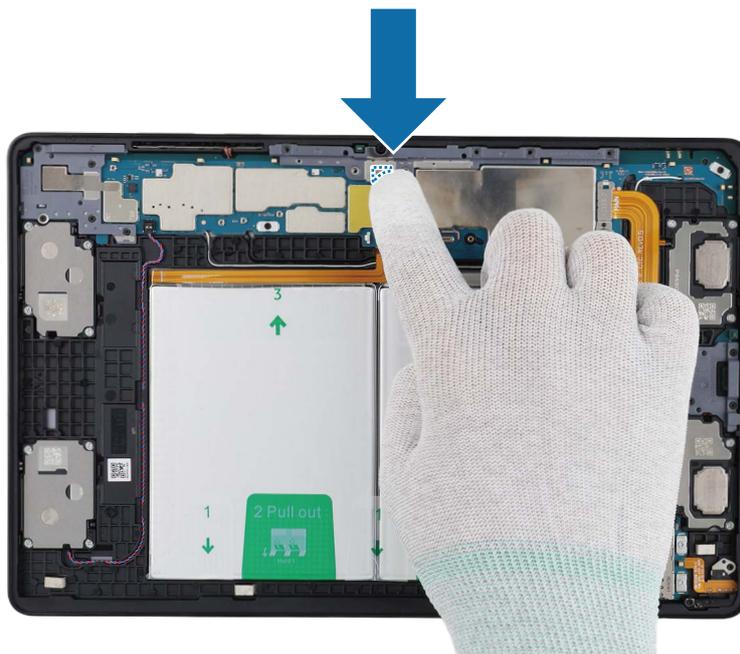
⚠ Be careful not to damage the bracket and the near components.



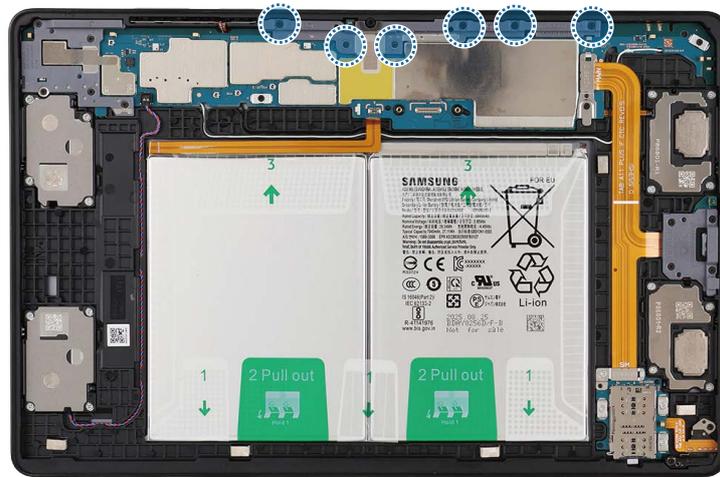
- 4 Using the tweezers, remove the release film of new front camera conductive tape and attach it on the front camera bracket.



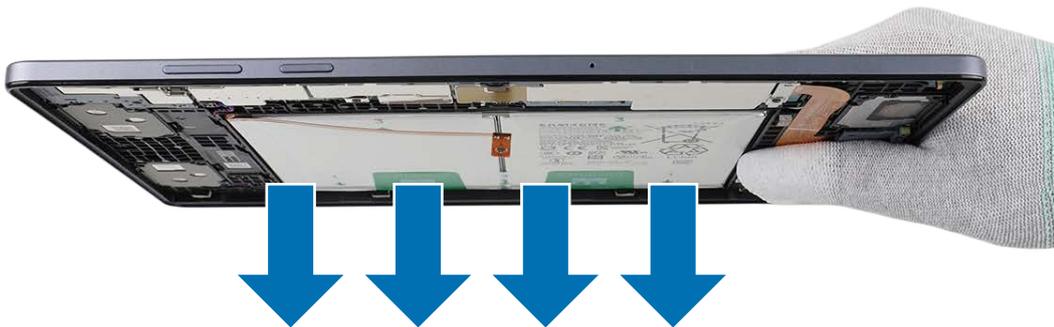
- 5 Gently press down the conductive tape to ensure a secure fit.



- 6 Check the screw 3630 (6 ea) at the 6 different points on the front camera bracket and fasten them using a cross-head screwdriver.



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



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

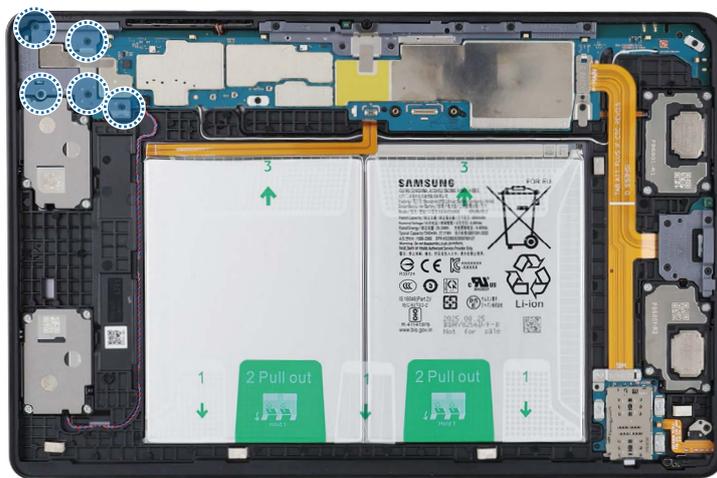
Rear Camera

Disassembly

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

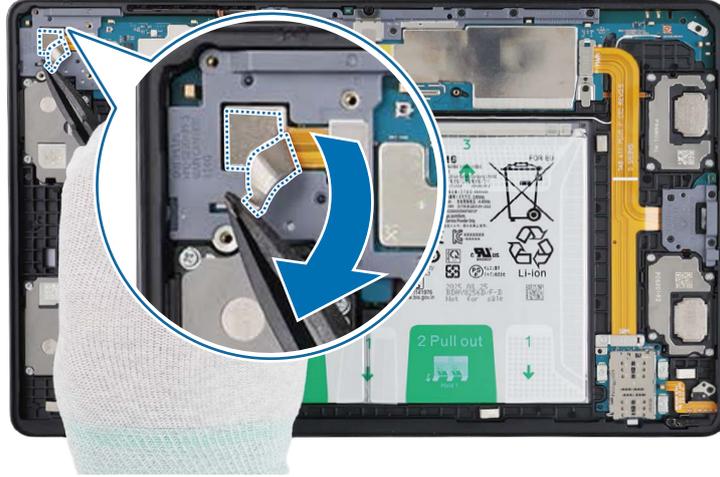
1 Check the 5 screws on the rear camera bracket and remove them using a cross-head screwdriver.

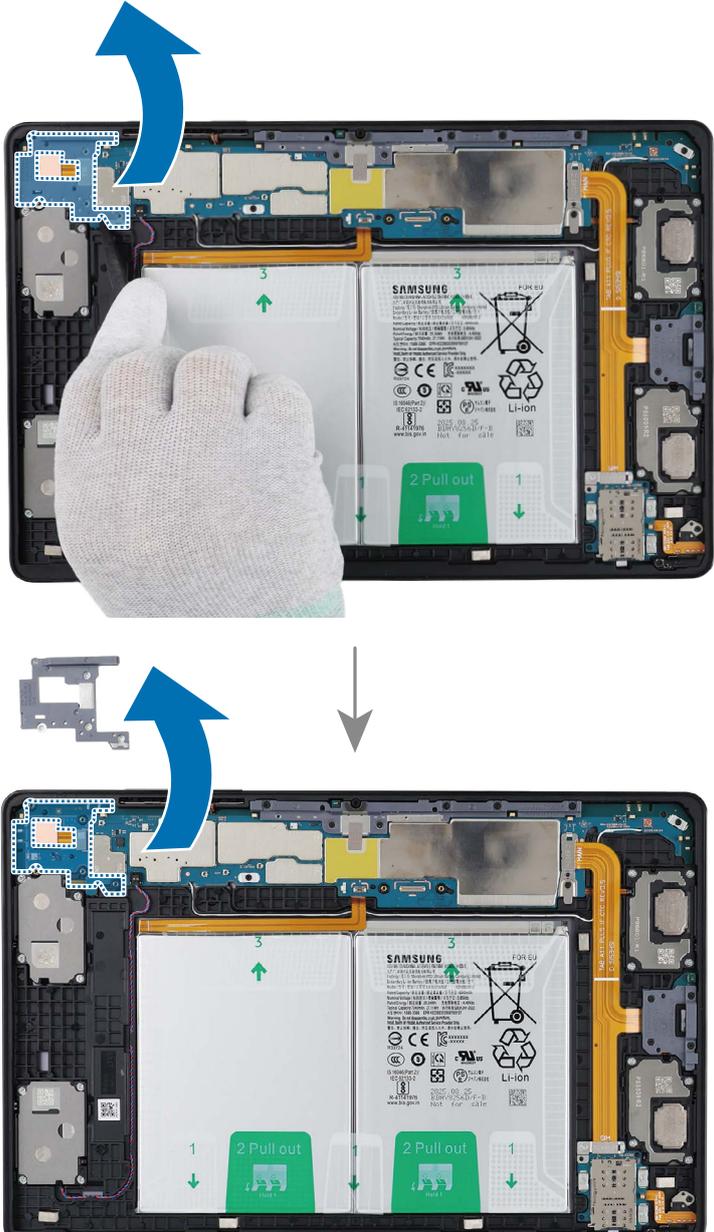
 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



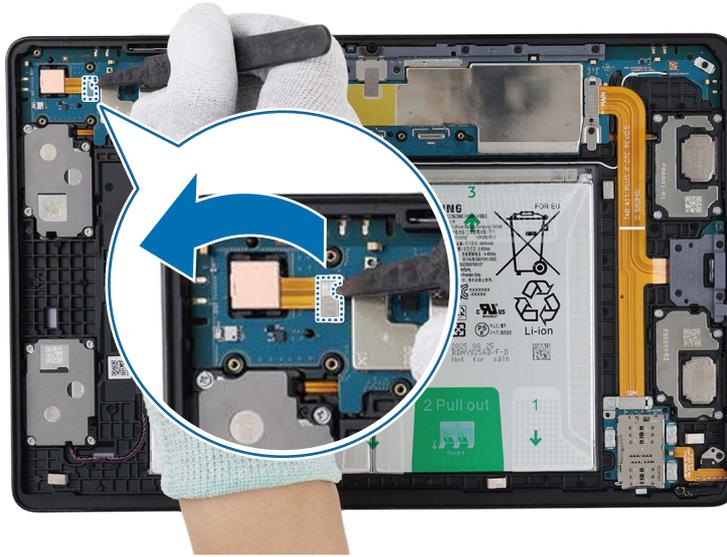
2 Using the tweezers, remove the conductive tape from the rear camera bracket. Using the tweezers, remove the rear camera bracket.

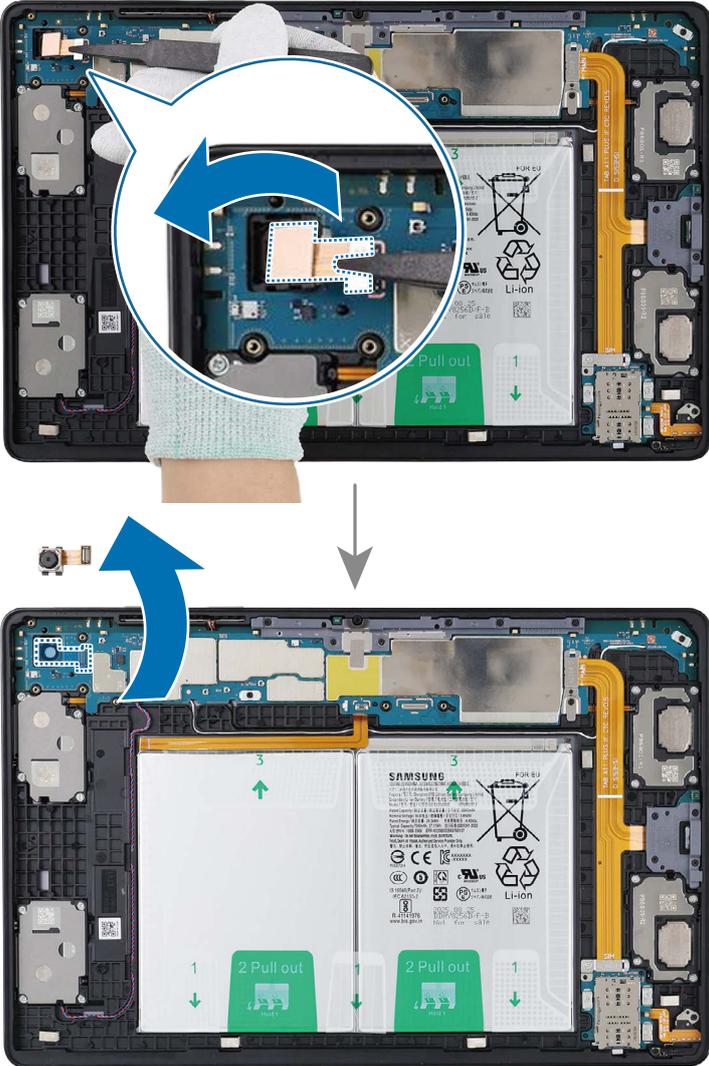
⚠ Be careful not to damage the bracket and the near components.





- Using the tweezers, disconnect the rear camera connector from the main board, and carefully remove the rear camera with the tweezers. Leave the camera lens facing up.



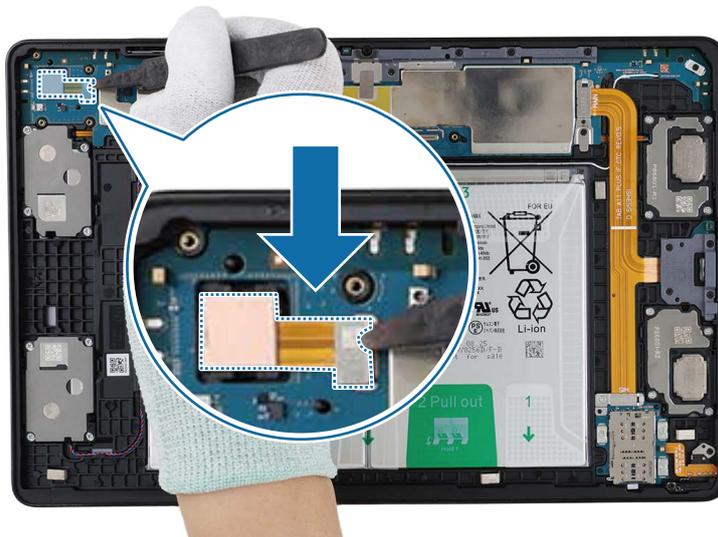


Reassembly

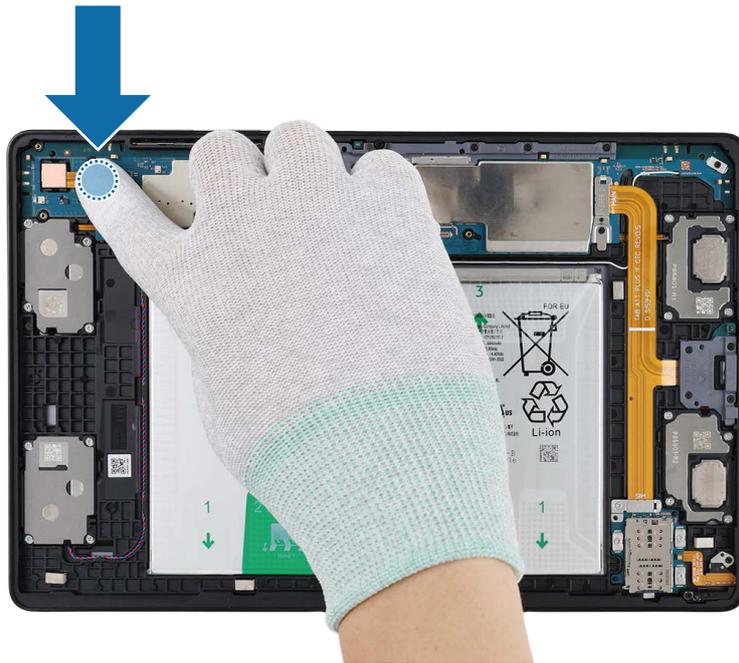
⚠ Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

1 Remove all release films from the new rear camera module. Using the tweezers, gently insert the rear camera into the camera hole so that the lens faces backward.

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

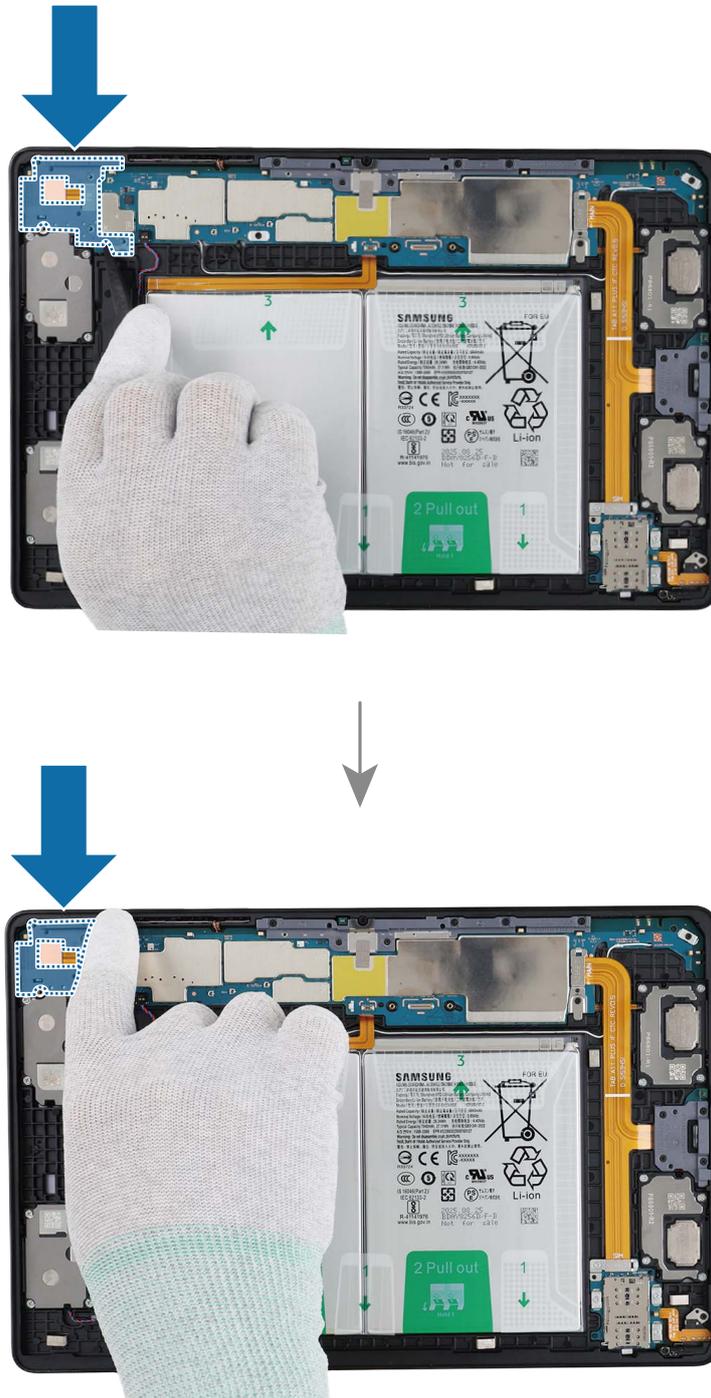


2 Connect the rear camera connector carefully on the main board.

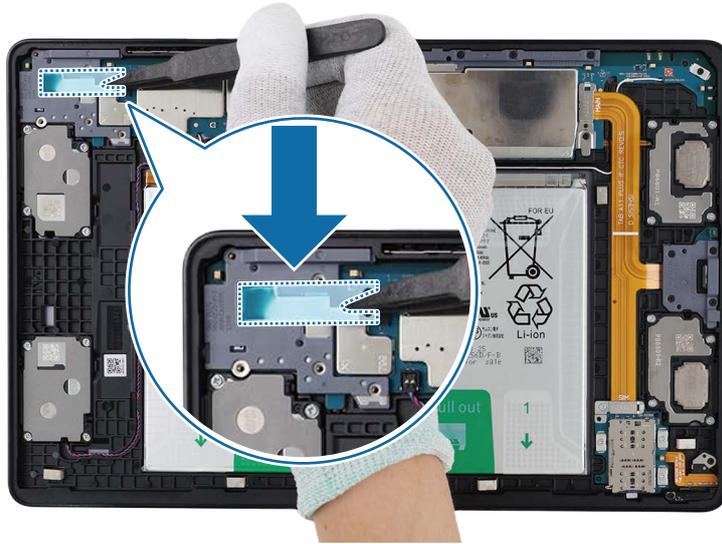


3 Using the tweezers, place the rear camera bracket to the device frame and press down on it in its position smoothly.

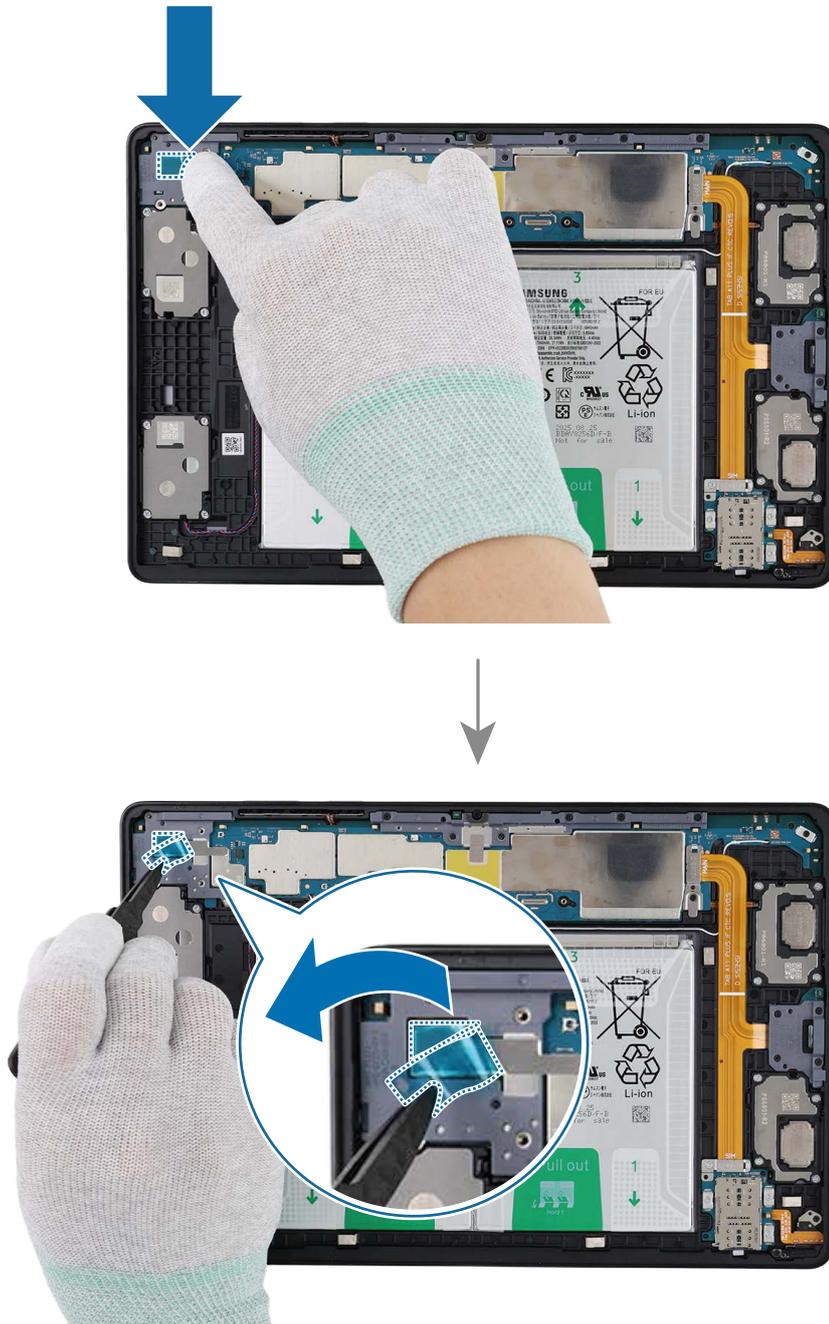
⚠ Be careful not to damage the bracket and the near components.



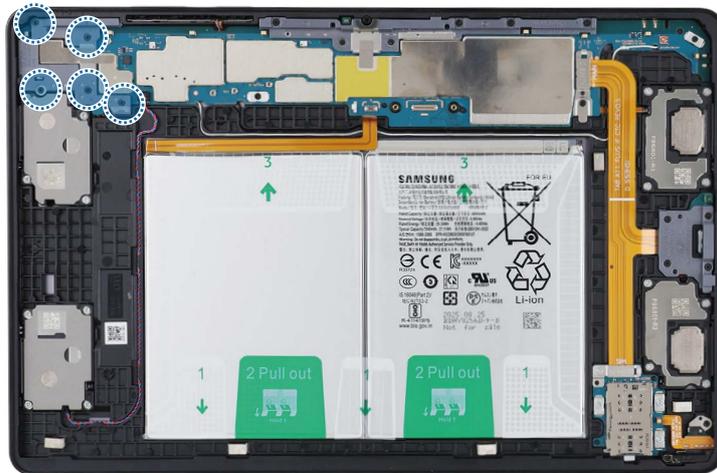
- 4 Using the tweezers, remove the release film of new rear camera conductive tape and attach it on the rear camera bracket.



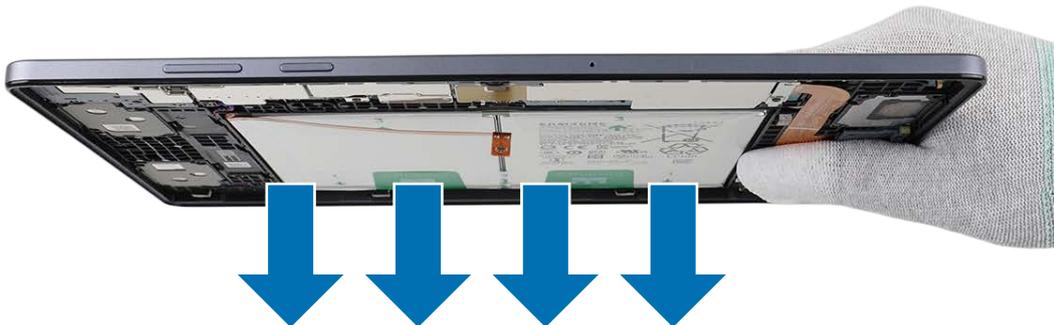
- 5 Gently press down the conductive tape to ensure a secure fit and remove the release film from the attached tape.



- 6 Check the screw 3630 (5 ea) at the 5 different points on the rear camera bracket and fasten them using a cross-head screwdriver.



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



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

Charging Port and Microphone

 The microphone is built into the charging port module.

Disassembly

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

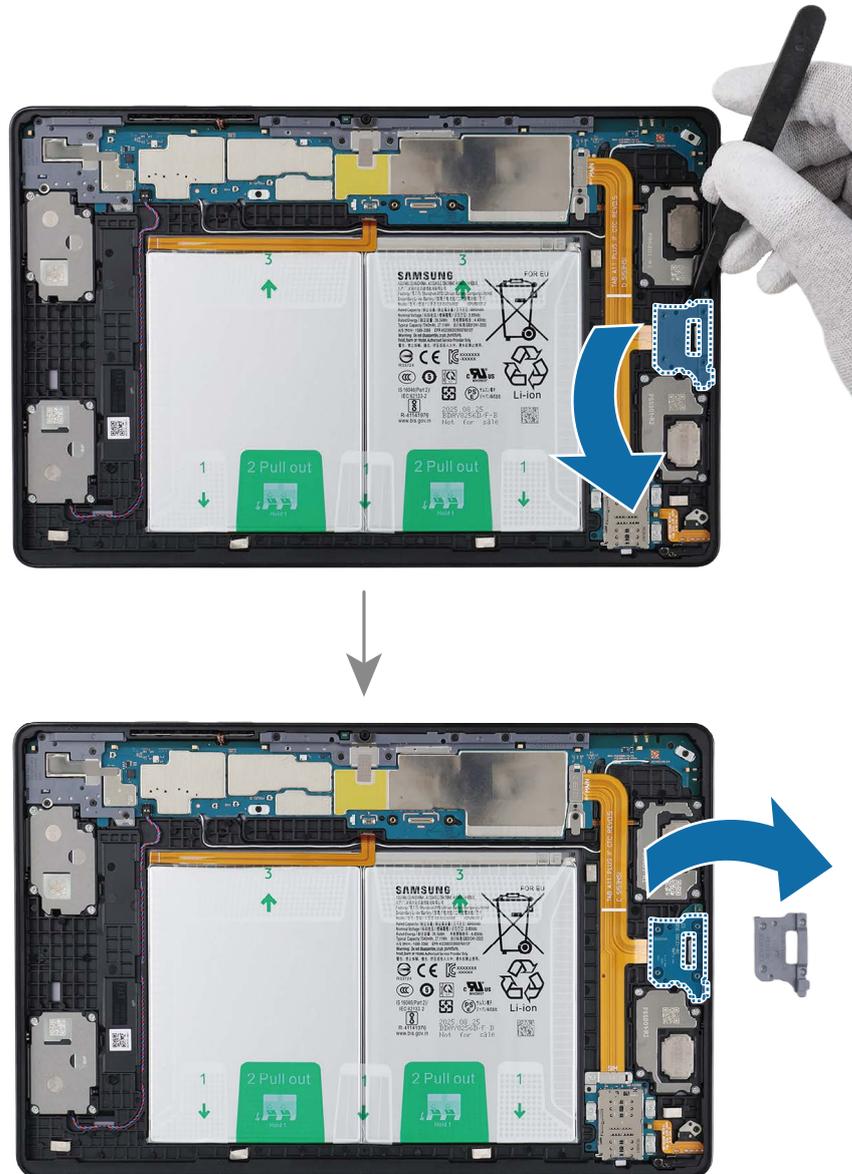
1 Check the 4 screws on the charging port bracket and remove them using a cross-head screwdriver.

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



2 Using the tweezers, lift up the charging port bracket very slowly and separate it completely from the device frame.

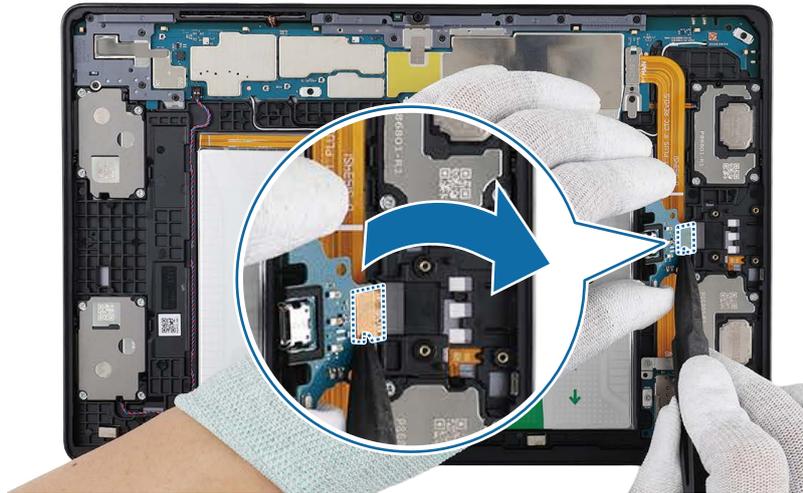
⚠ Be careful not to damage the bracket and the near components.



- 3 Using the tweezers, lift up on the separator groove of the charging port module and disconnect a flex cable connector from the back of charging port. And separate the charging port module from the device frame slowly.

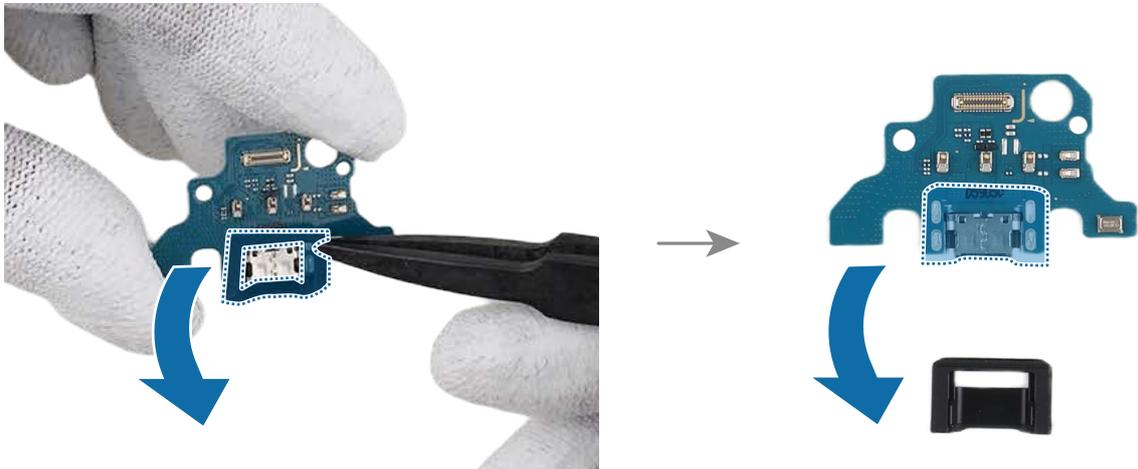
⚠ When disconnecting the connector, be careful not to damage the cable.





4 Using the tweezers, remove the rubber from the separated charging module.

⚠ You need to reuse the separated rubber. Be careful not to damage the rubber.

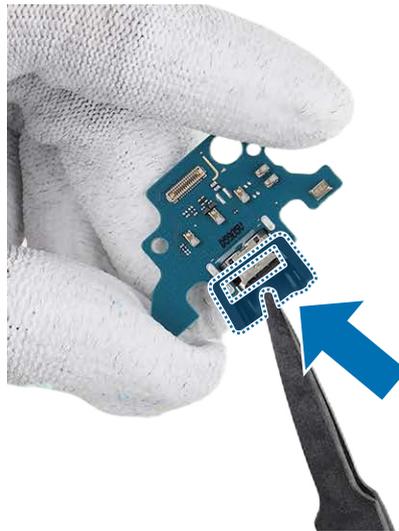


Reassembly

 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.

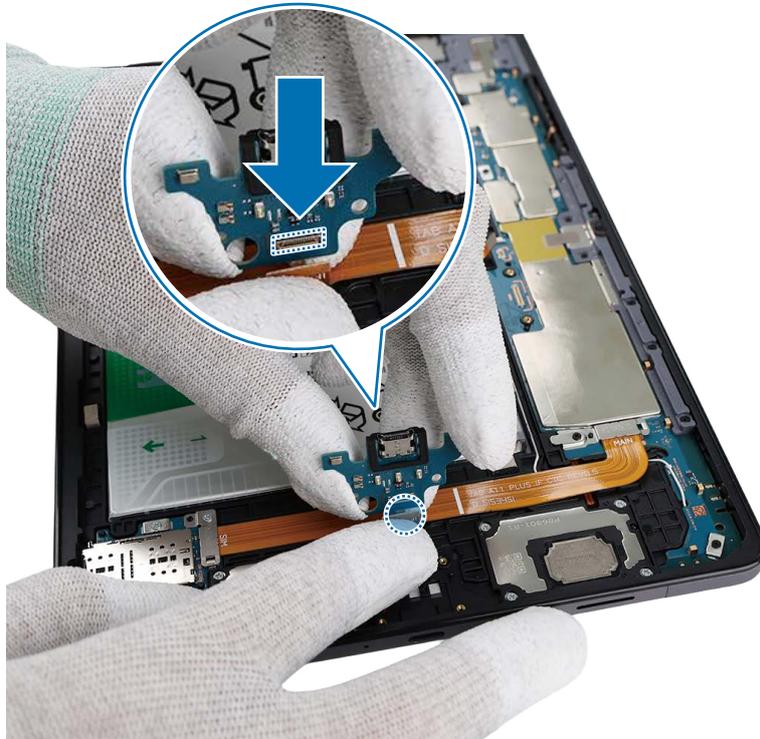
1 Using the tweezers, carefully assemble the existing rubber with the new charging port module.

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

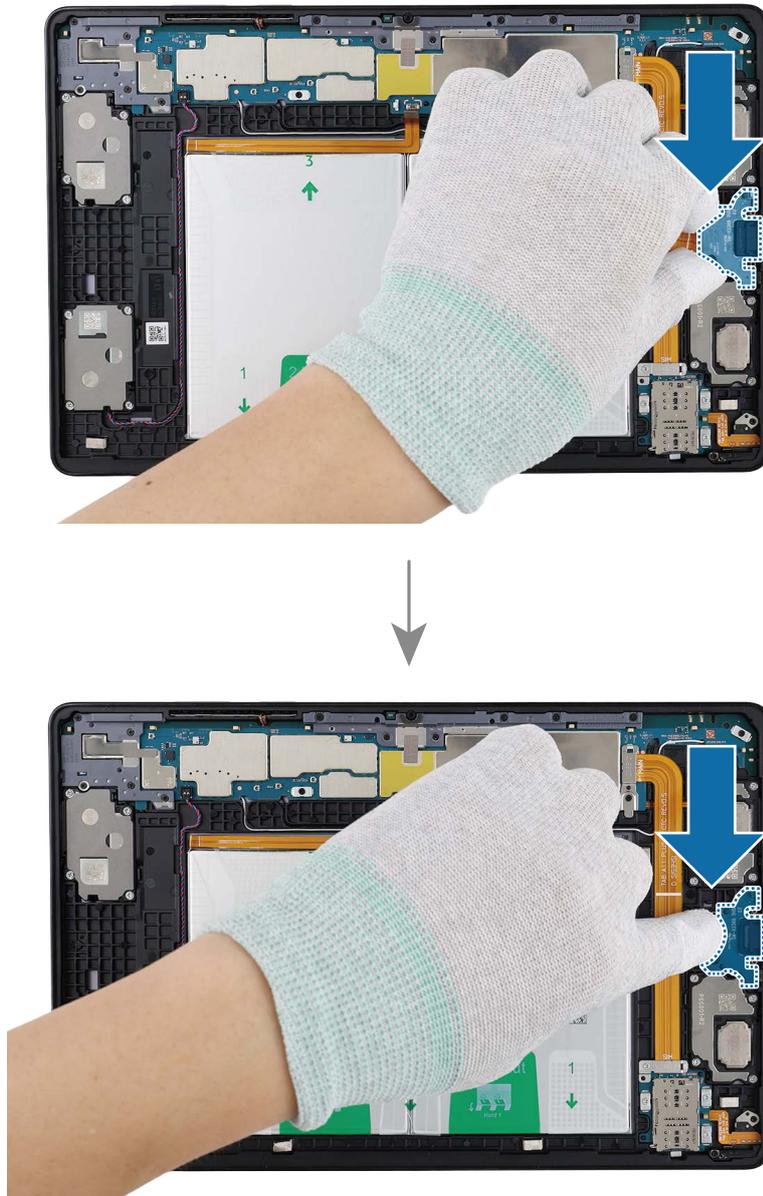


2 Connect a flex cable connector to the back of charging port.

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

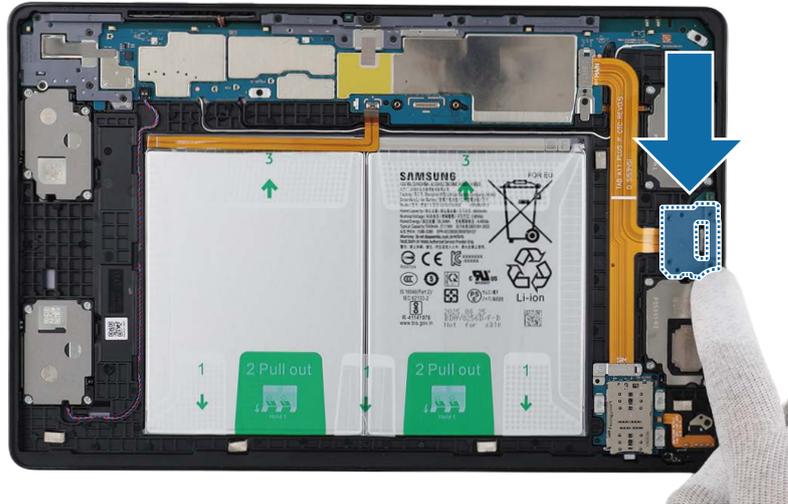


- 3 Insert the charging port module into the exact position and press down on it in its position smoothly.



4 Place the charging port bracket to the exact position and press down on it in its position smoothly.

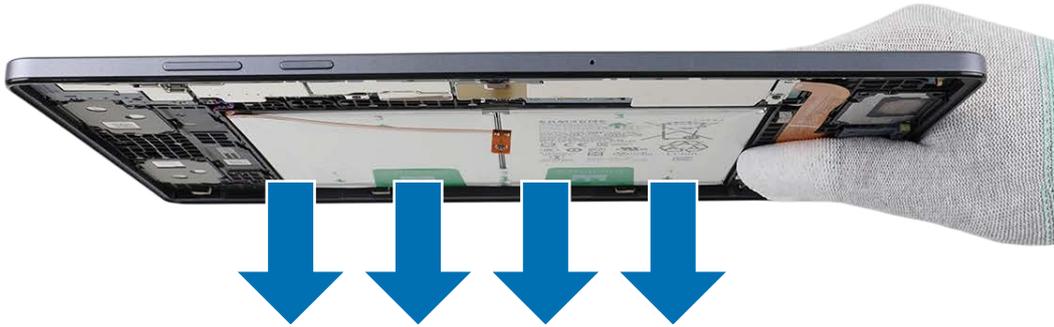
⚠ Be careful not to damage the bracket and the near components.



5 Check the screw 3630 (4 ea) at the 4 different points on the charging port bracket and fasten them using a cross-head screwdriver.



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



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

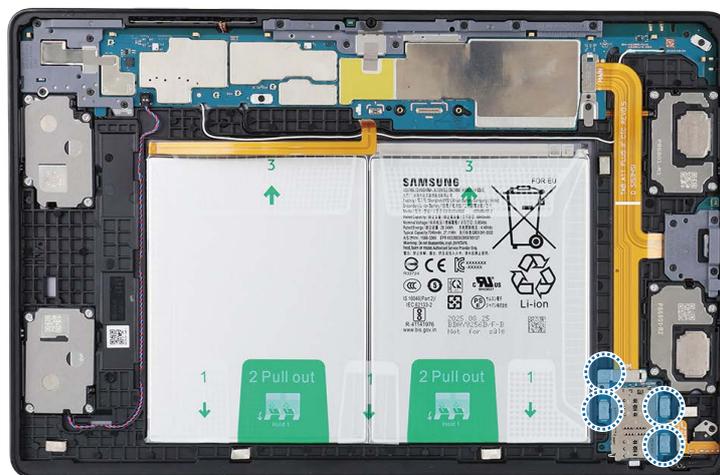
Headphone Jack

Disassembly

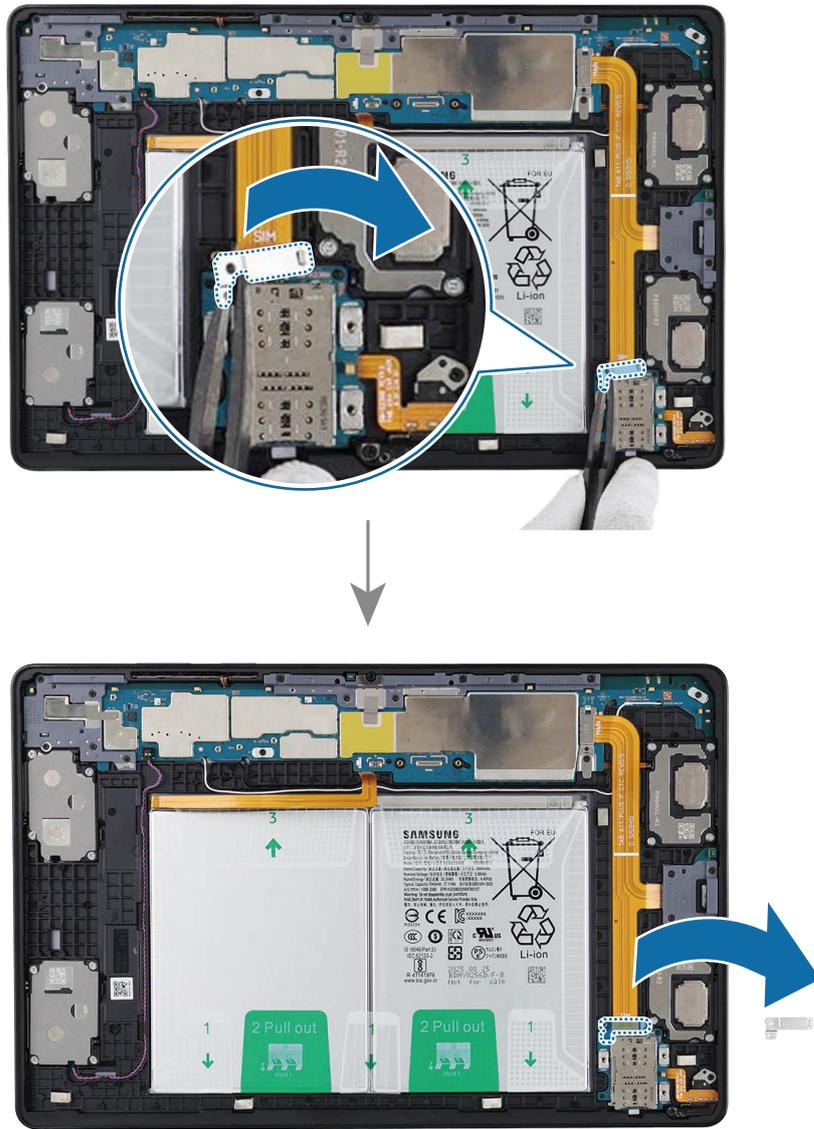
 Remove the [SIM Card Tray](#) and [Screen](#) first before you begin.

1 Check the 4 screws around the SIM card socket and remove them using a cross-head screwdriver.

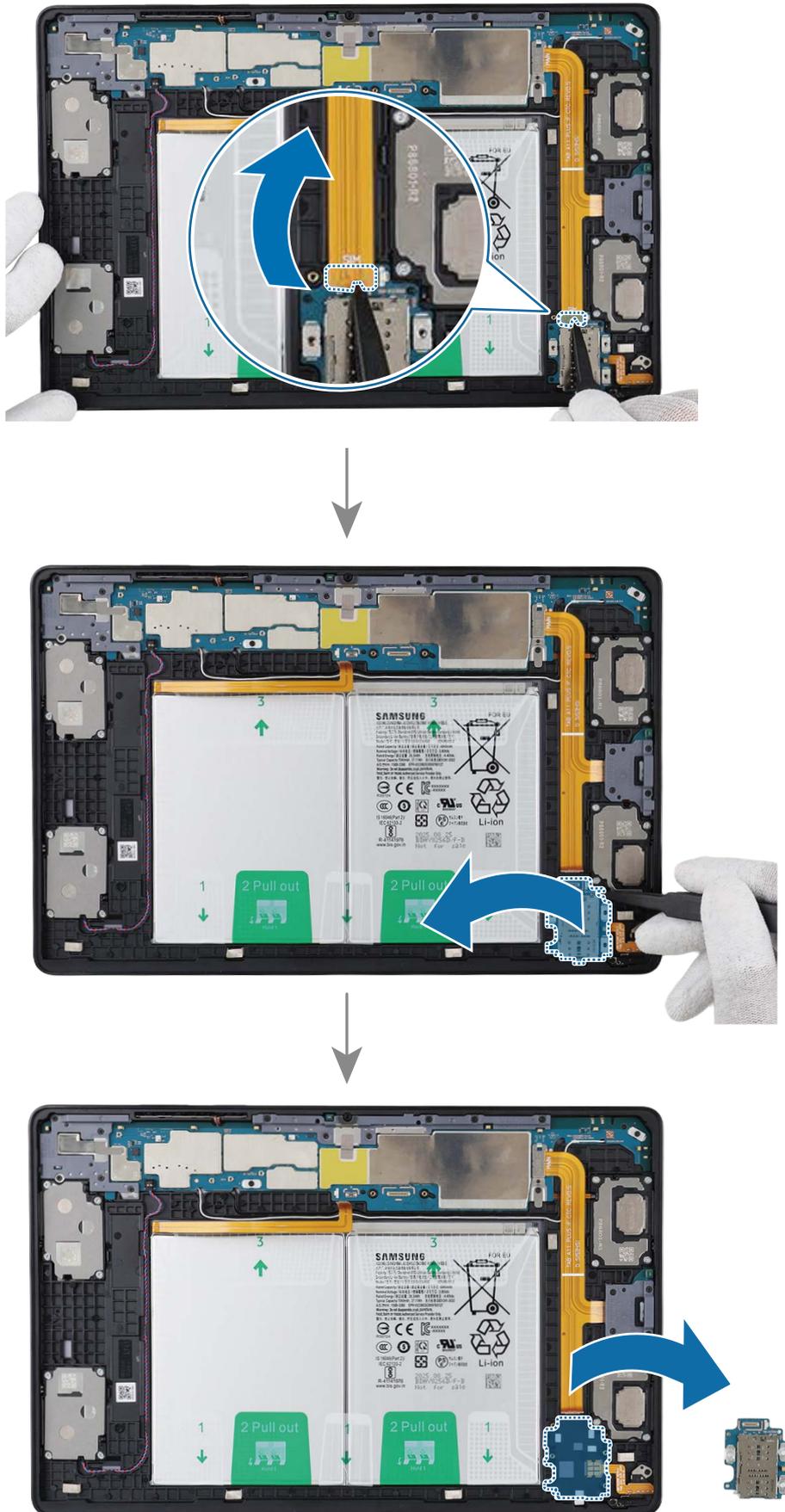
 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



2 Using the tweezers, remove the bottom metal plate of a flex cable.



- Using the tweezers, disconnect a flex cable connector from the SIM card socket. Using the tweezers, lift up on the separator groove of the SIM card socket and separate it from the device frame slowly.

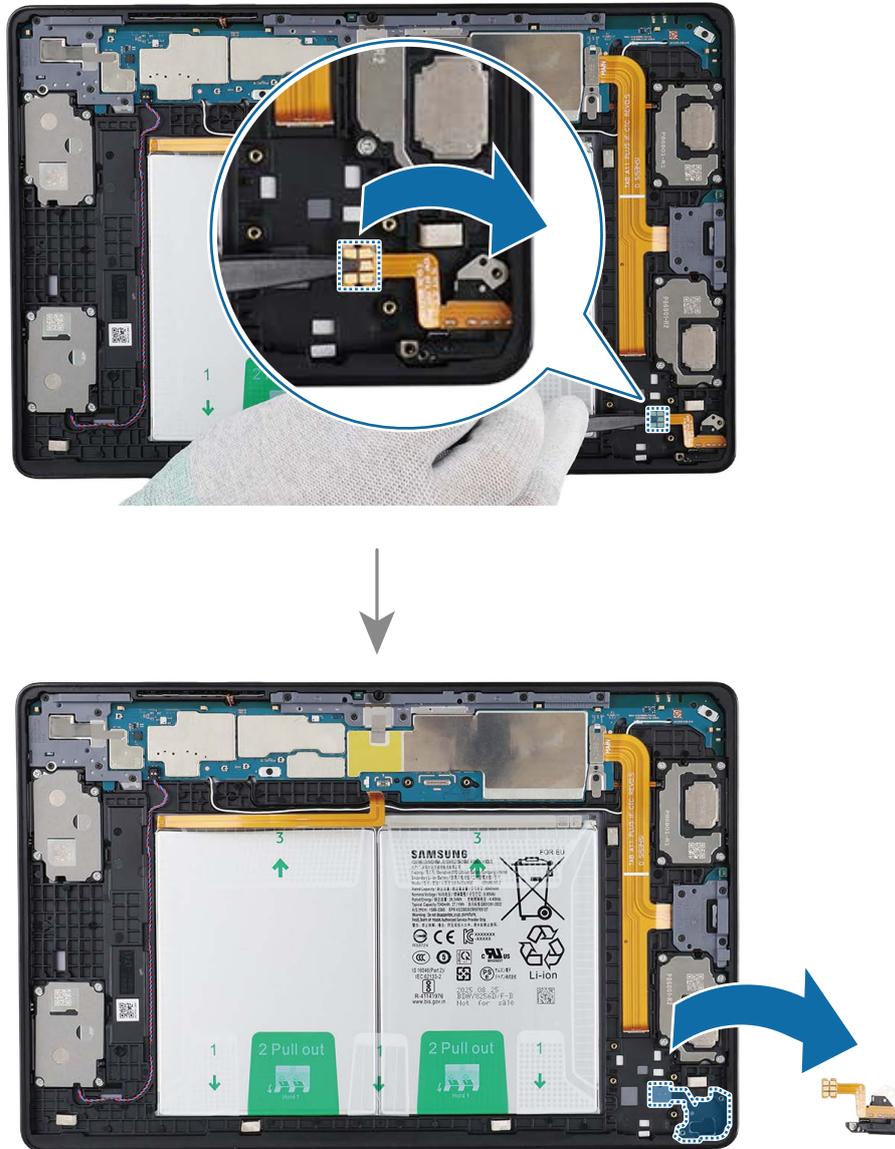


4 Check the 2 screws on the headphone jack module and remove them using a cross-head screwdriver.

 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, separate the FPCB of headphone jack module carefully. Then lift up the headphone jack and remove it from the device frame.

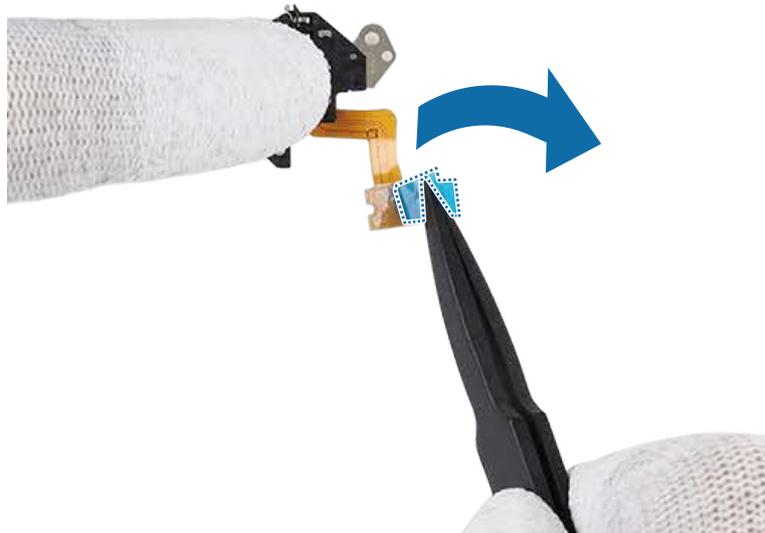


Reassembly

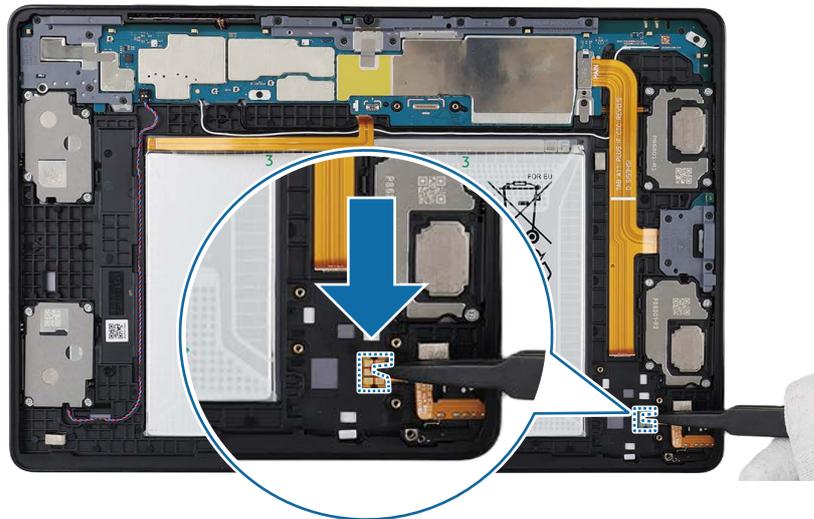
 Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

1 Using the tweezers, remove the all release films from new headphone jack module carefully.

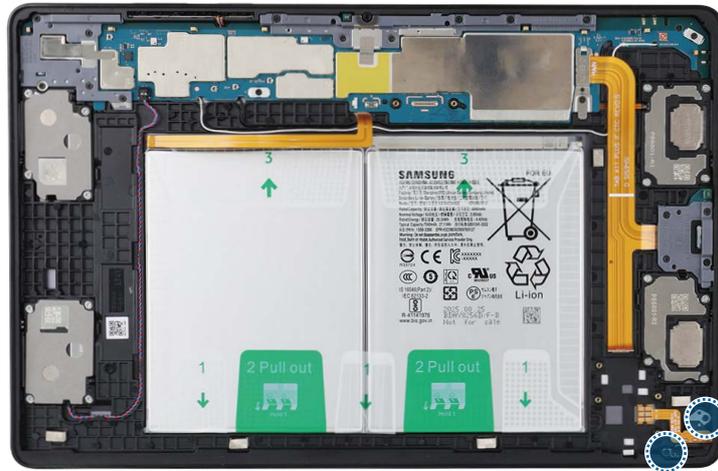
 Be careful not to damage the headphone jack module.



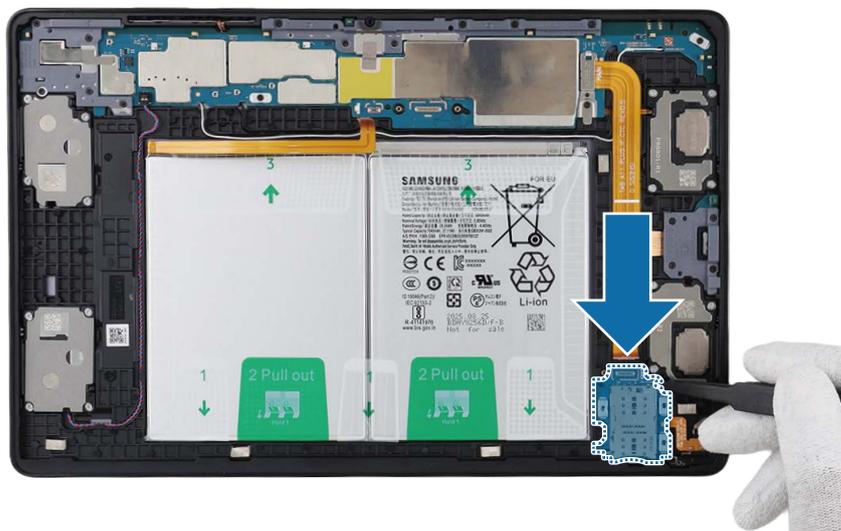
- 2 Using your fingers and the tweezers, place the headphone jack module to the exact position of the device frame and press it with the tweezers softly.



- 3 Check the screw 3630 (2 ea) on the headphone jack module and fasten them using a cross-head screwdriver.

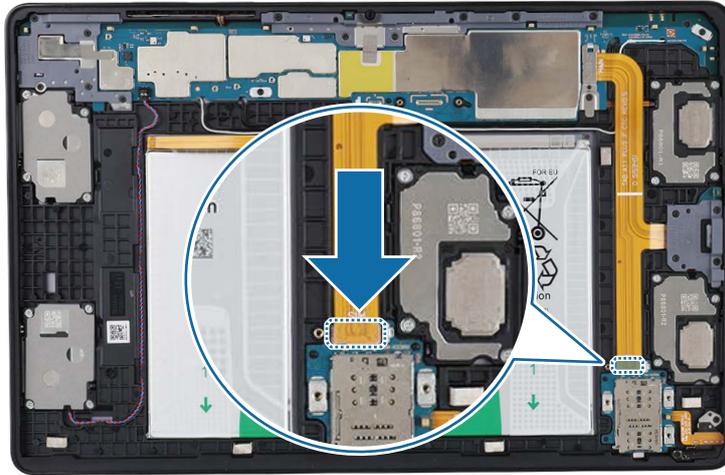


- 4 Insert the SIM card socket into the exact position and press down on it in its position smoothly.

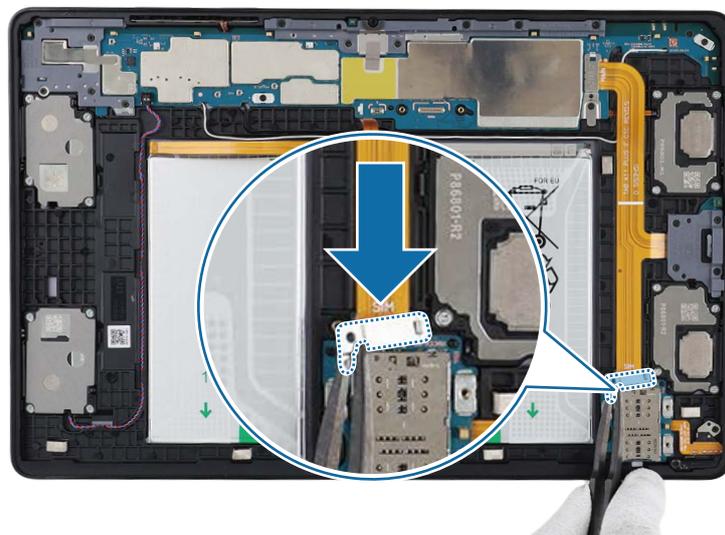


5 Connect a flex cable connector to the SIM card socket.

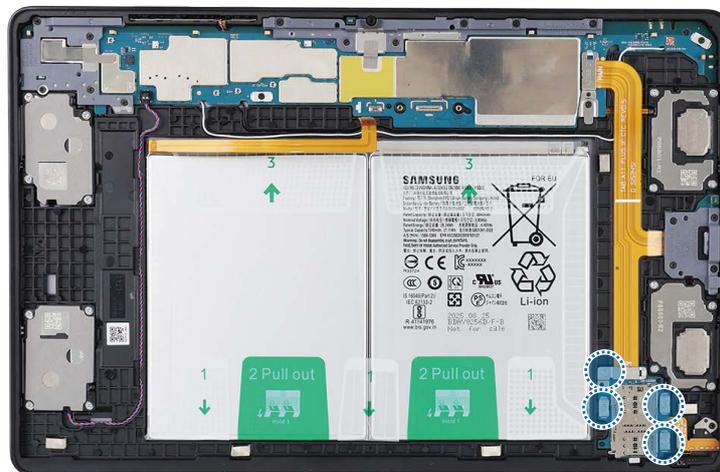
⚠ When connecting the connector, be careful not to damage the cable.



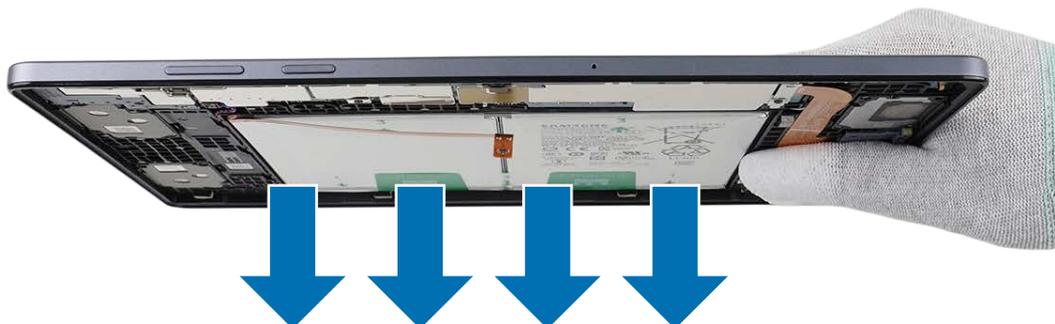
6 Using the tweezers, assemble the bottom metal plate of a flex cable.



- 7 Check the screw 3631 (4 ea) around the SIM card socket and fasten them using a cross-head screwdriver.



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



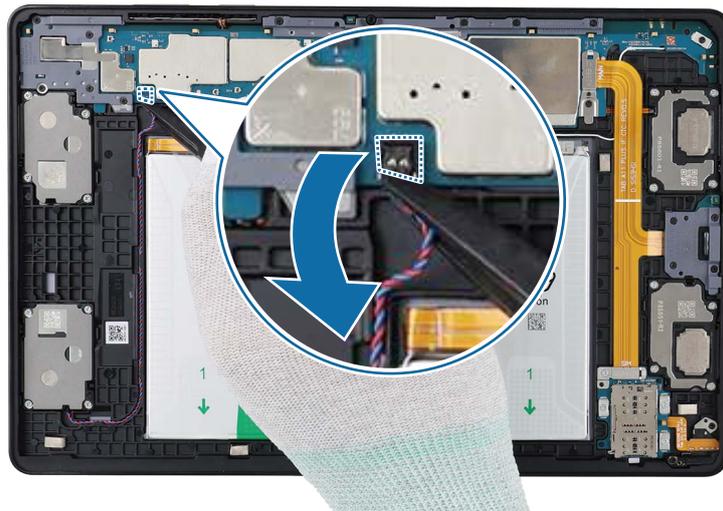
-  Reassemble the [Screen](#) and [SIM Card Tray](#) to complete assembly.

Speaker1

Disassembly

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

1 Using the tweezers, disconnect the cable connector of the speaker module.



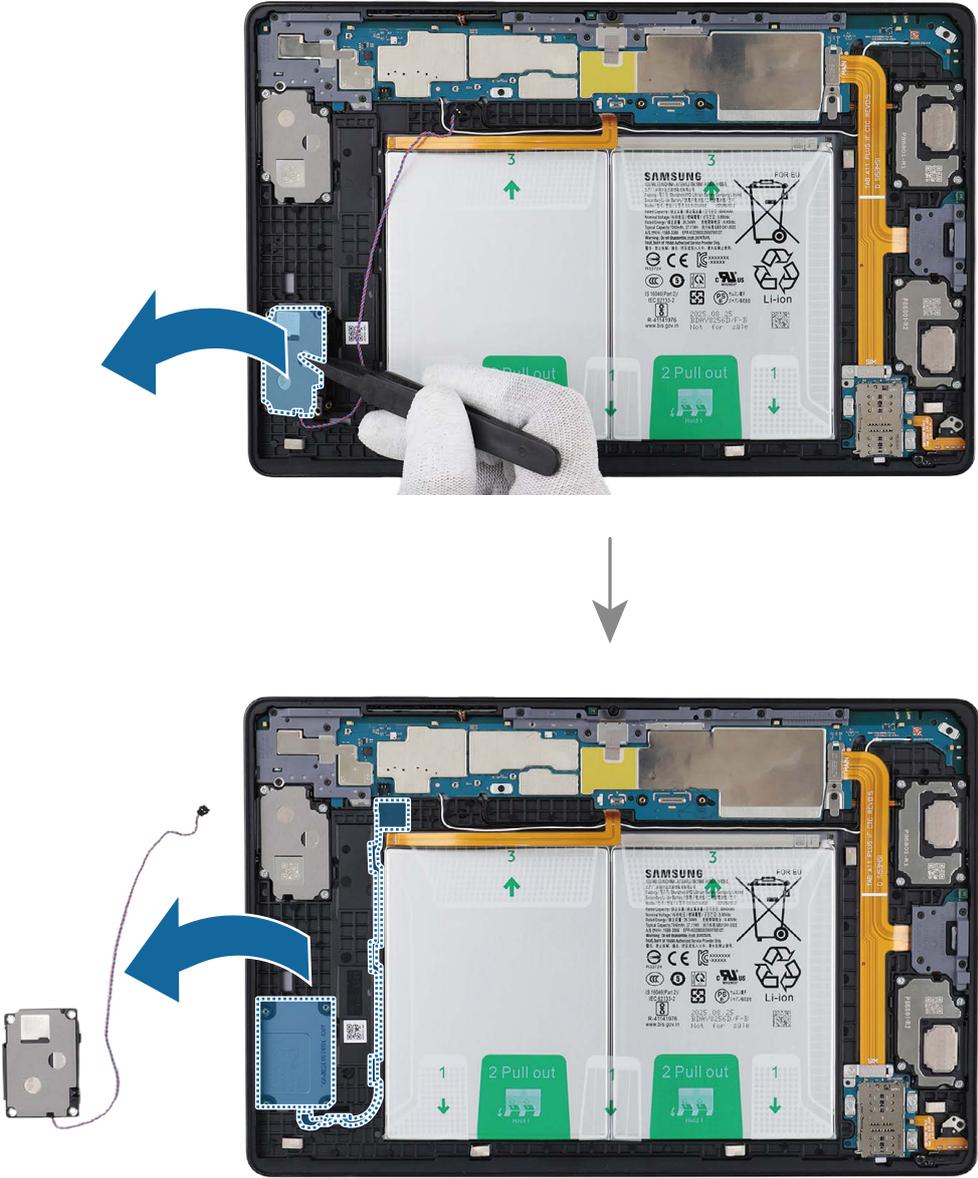
2 Check the 4 screws on the speaker module and remove them using a cross-head screwdriver.

 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.



- 3 Separate the cable of the speaker module completely from the device frame. Lift up on the separator groove of speaker module and remove it carefully from the device frame.



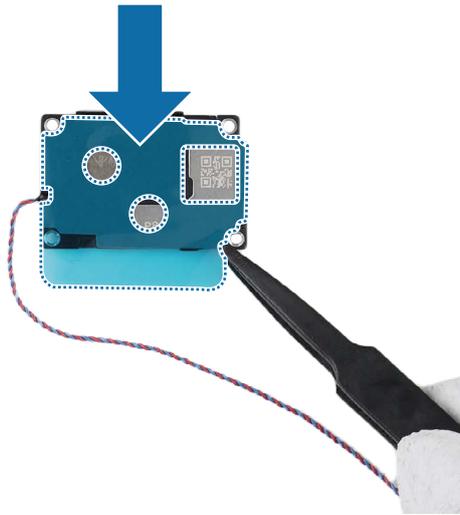


Reassembly

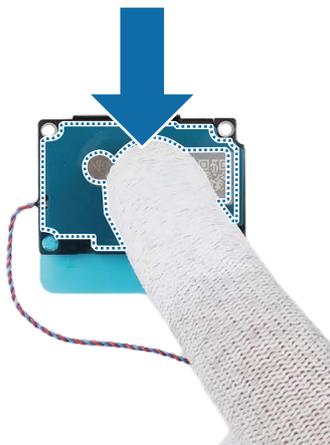
 Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

1 Remove the release film from the new speaker1 foam tape and align it precisely to the new speaker module, then attach it.

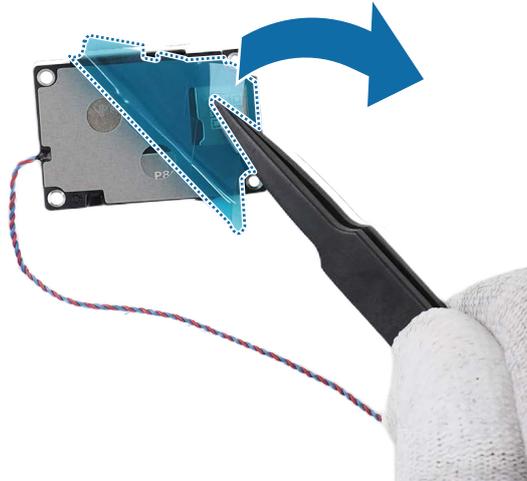
 Be careful not to damage the speaker module.



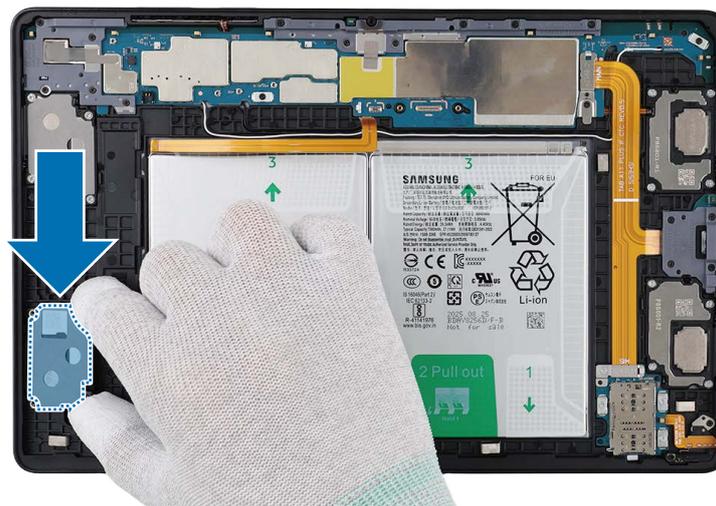
2 Gently press down the tape to ensure a secure fit with your fingers.



- Using the tweezers, remove the release film from the speaker module carefully.



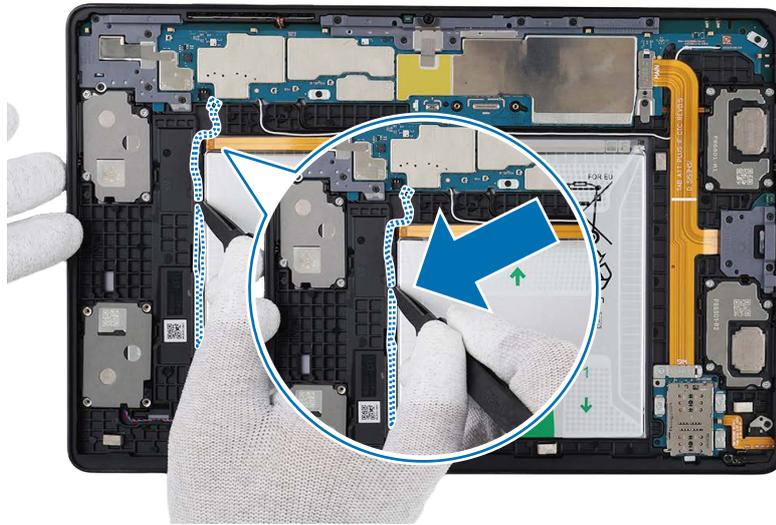
- Place the speaker module to the exact position and assemble it to the device frame.



- 5 Press down softly and evenly on the speaker module so that the speaker module can be completely assembled.



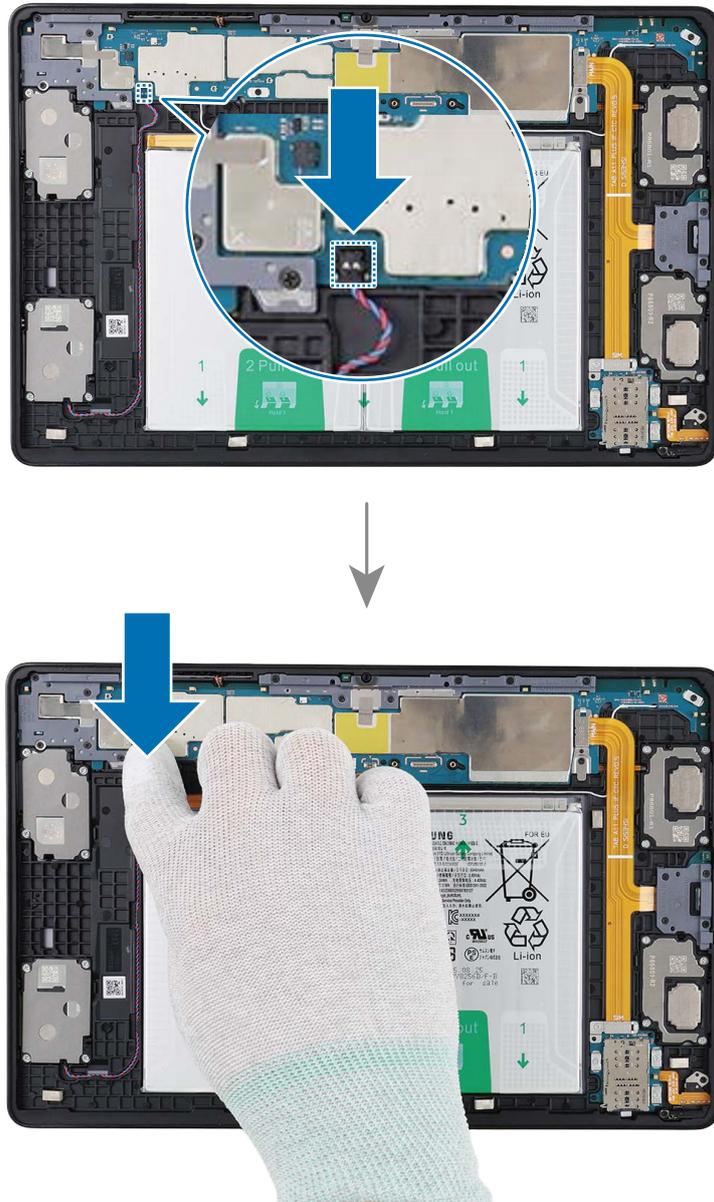
- Using the tweezers and your fingers, assemble the cable of the speaker module carefully to the device frame.



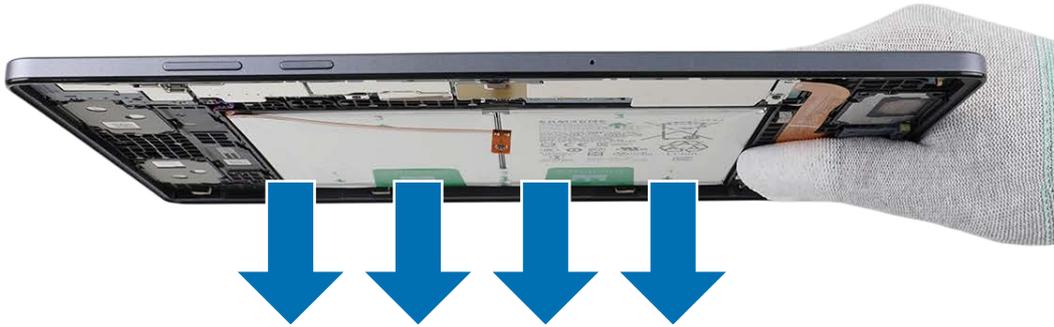
- Check the screw 3631 (4 ea) at the 4 different points on the speaker module. Fasten them using a cross-head screwdriver.



8 Connect the cable connector of the speaker module.



- 9 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 device facing down to remove any remaining screws.



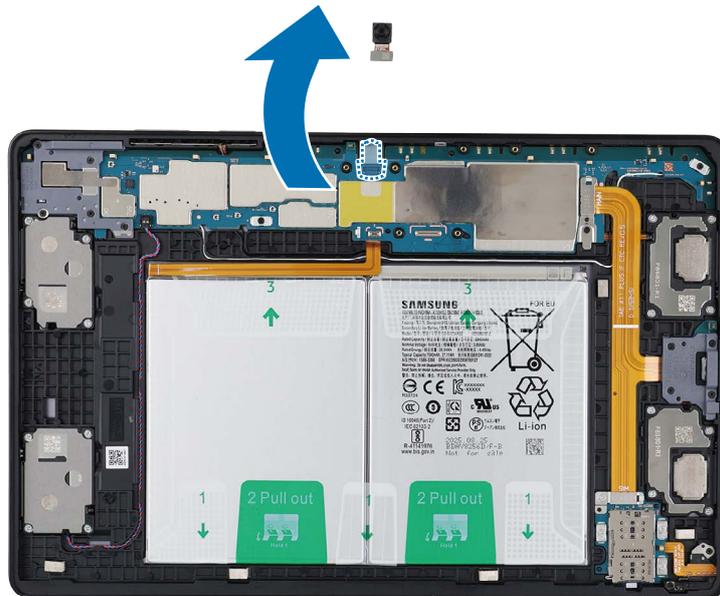
-  Reassemble the [Screen](#) to complete assembly.

Speaker 2

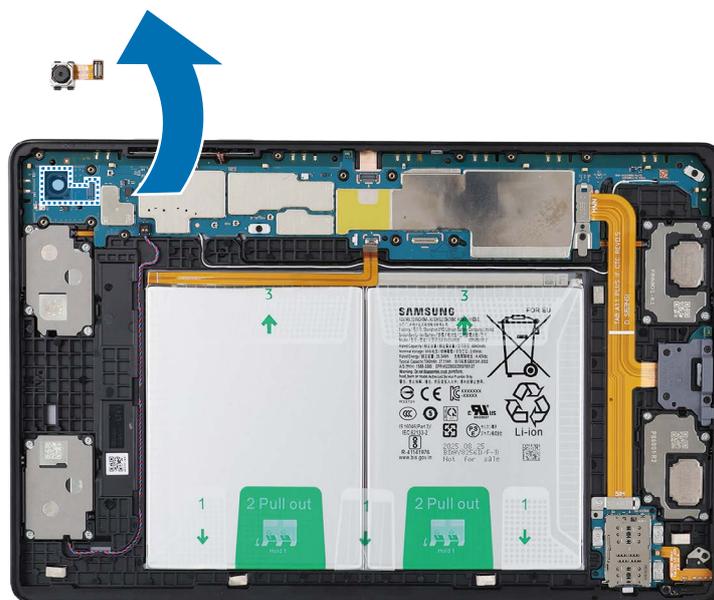
Disassembly

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

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

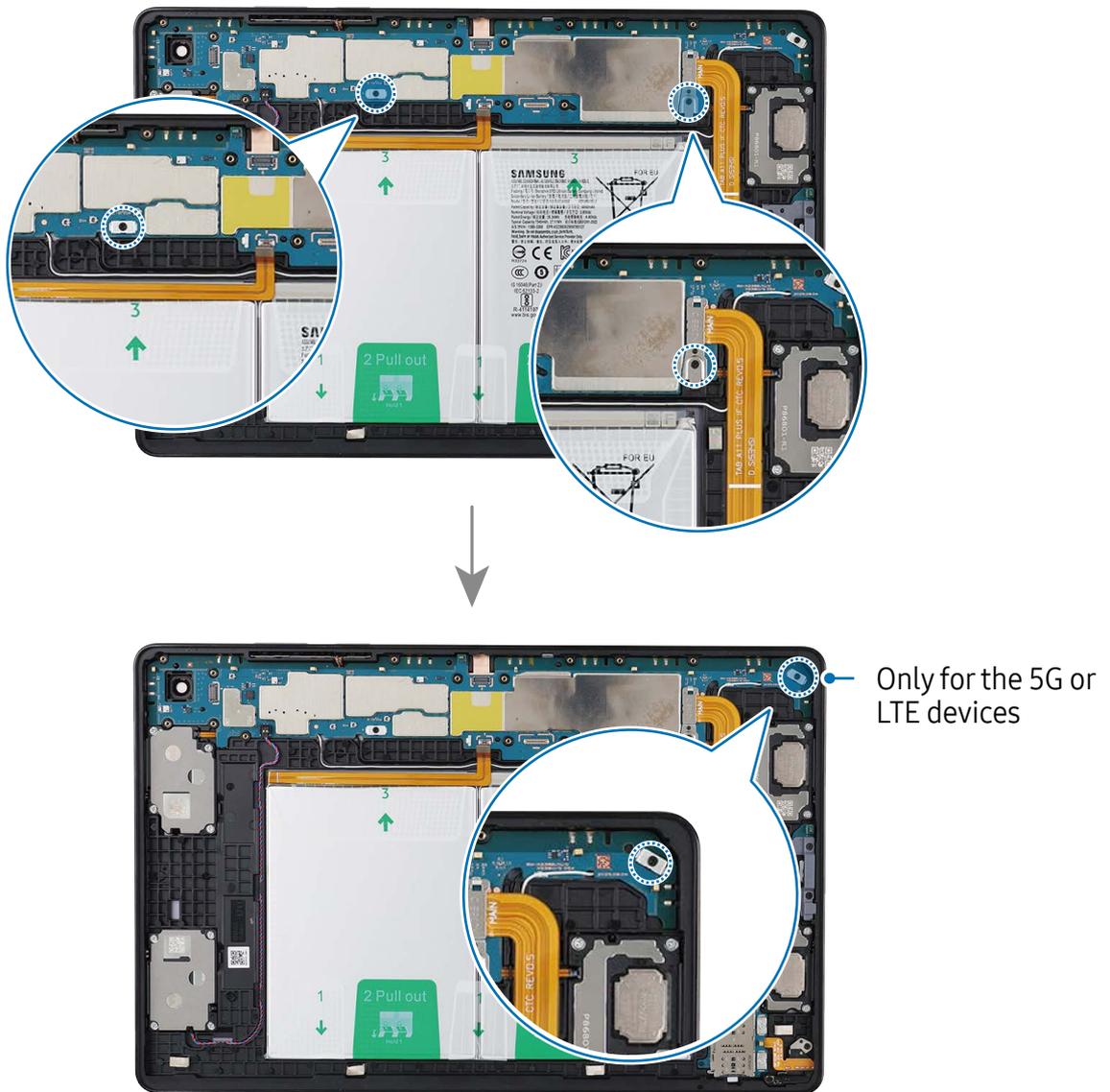


- 2 Check for the disassembly steps of the [Rear Camera](#) and completely separate the rear camera.

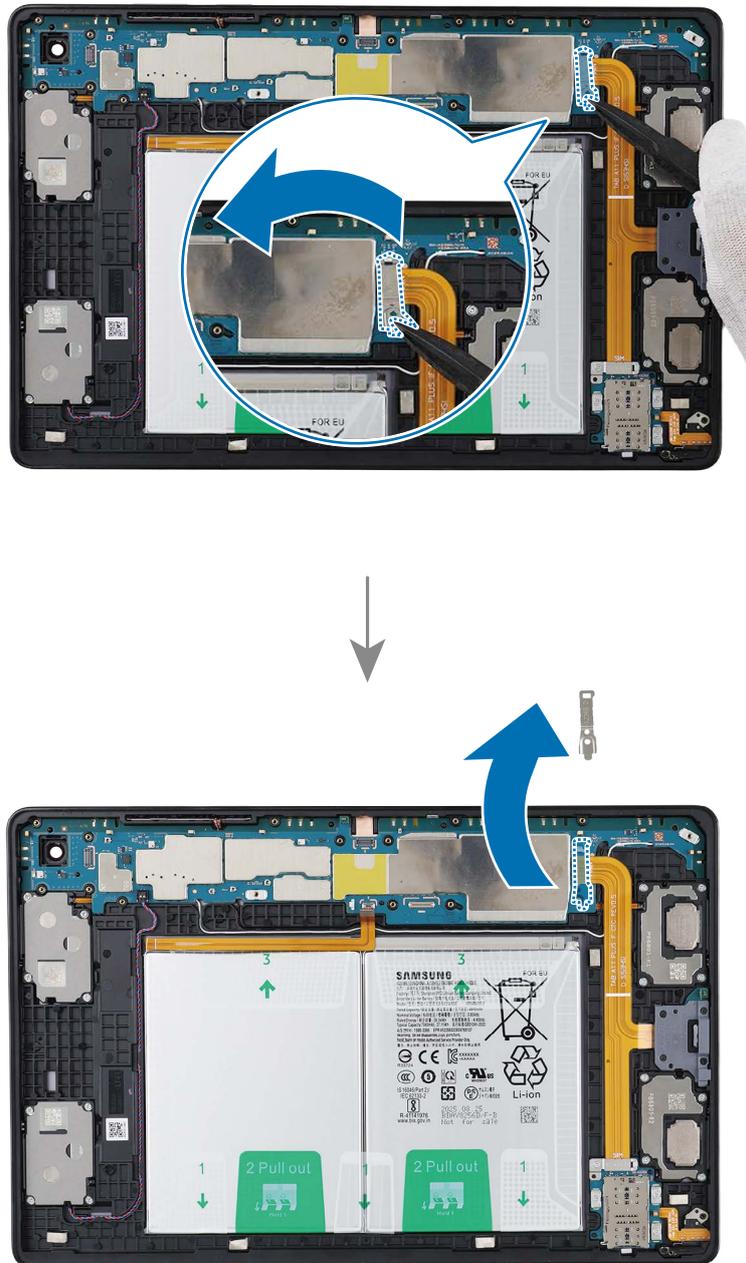


3 Check the 2 screws on the main board and remove them using a cross-head screwdriver. For the 5G or LTE devices, remove the additional screw on the main board.

- 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.
- The fasteners may vary depending on the country, region, or specification.
- The additional screw is only available for the 5G or LTE devices.

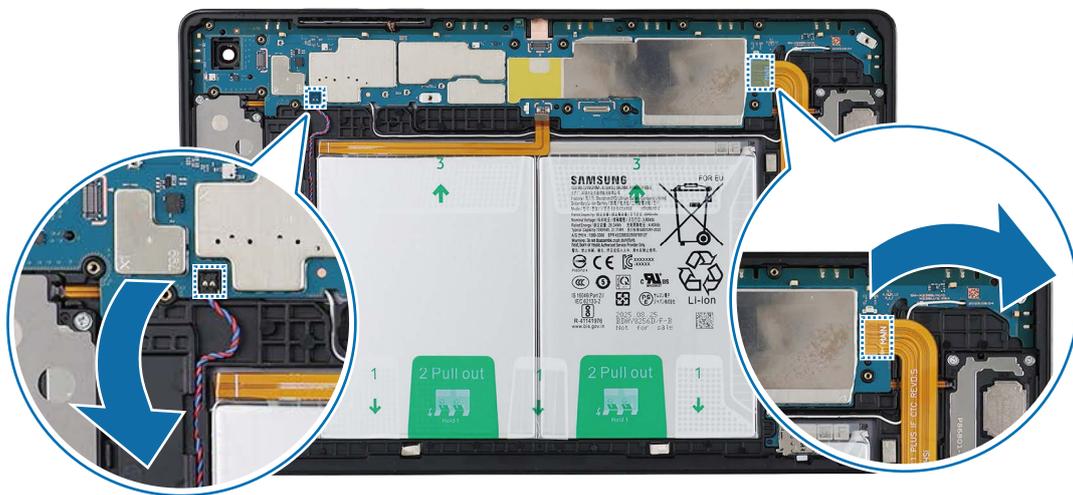


4 Using the tweezers, remove the top metal plate of a flex cable.



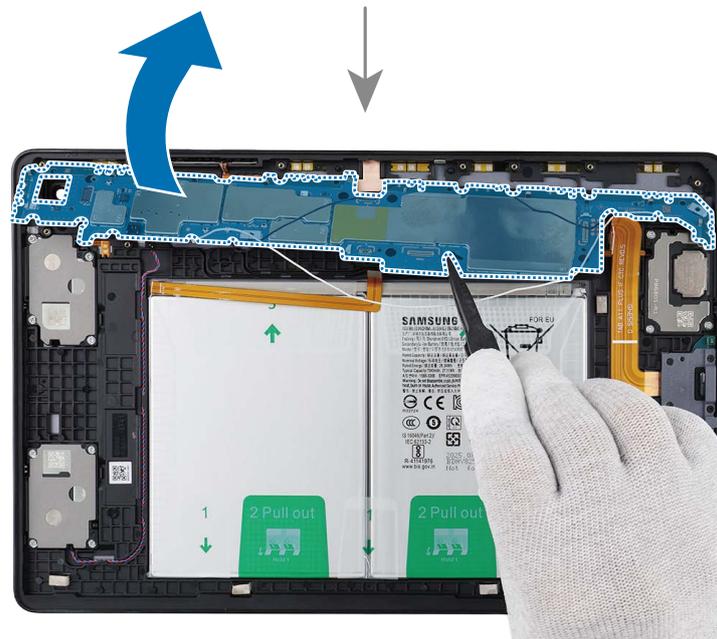
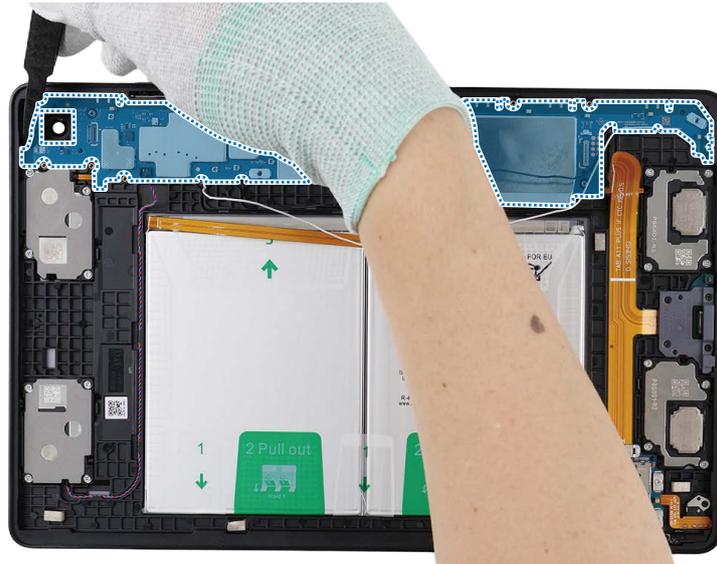
5 Using the tweezers, disconnect the 2 flex cable connectors from the main board. For the 5G or LTE devices, carefully lift up the 2 coaxial cables (White/Black) with the tweezers from the device frame. Using the tweezers, remove the main board completely.

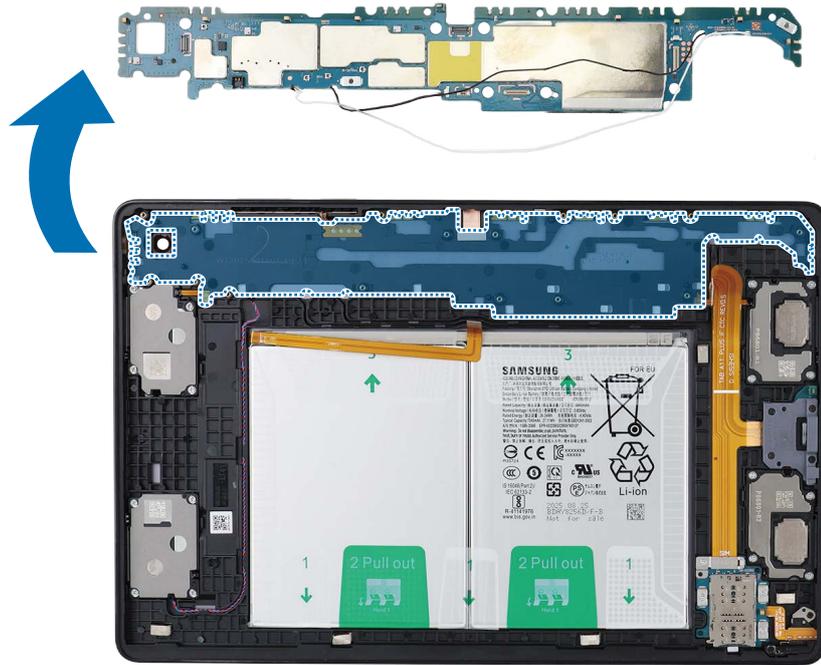
- ⚠ • Be careful not to damage the main board and the near components.
- FPCB cables and connectors have to be positioned outside so as not to interfere when disassembling the main board.
- ✍ • The 2 coaxial cables (White/Black) are only available for the 5G or LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.
- If you find that the main board is stuck too firmly, gradually lift its lower part.



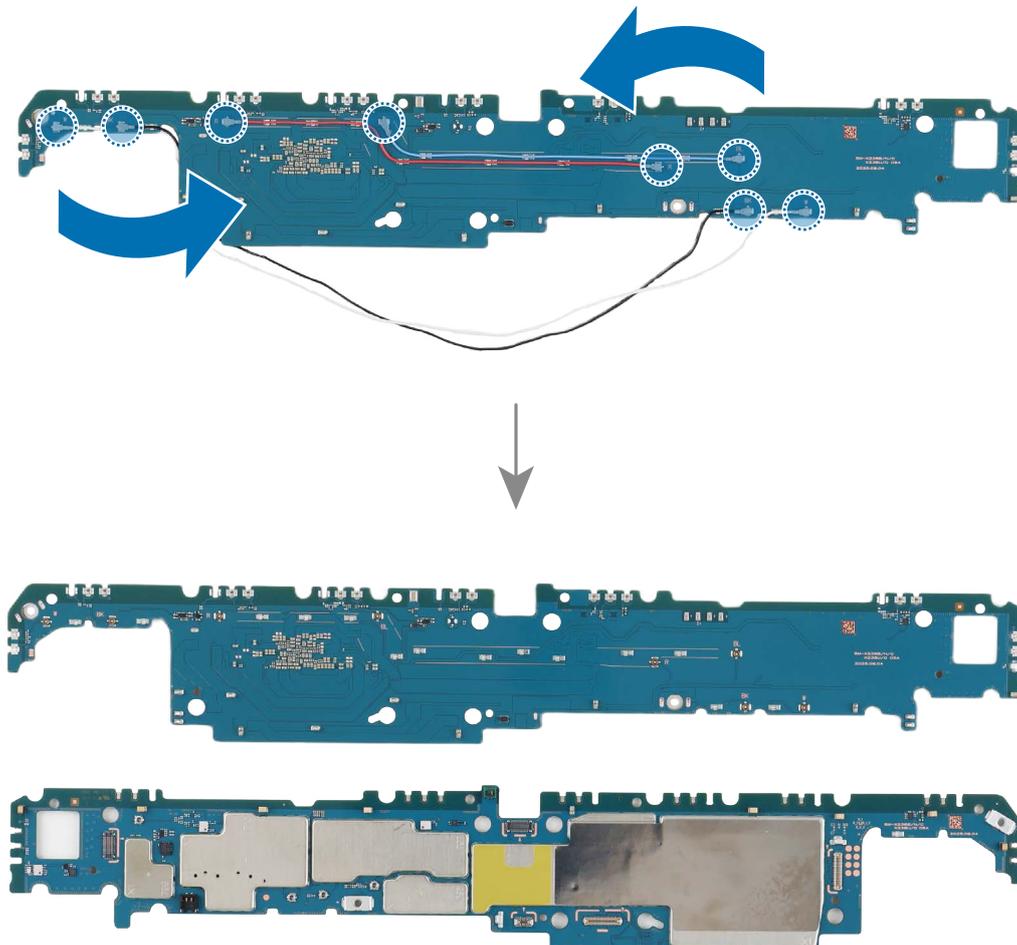
Disassembly and Assembly





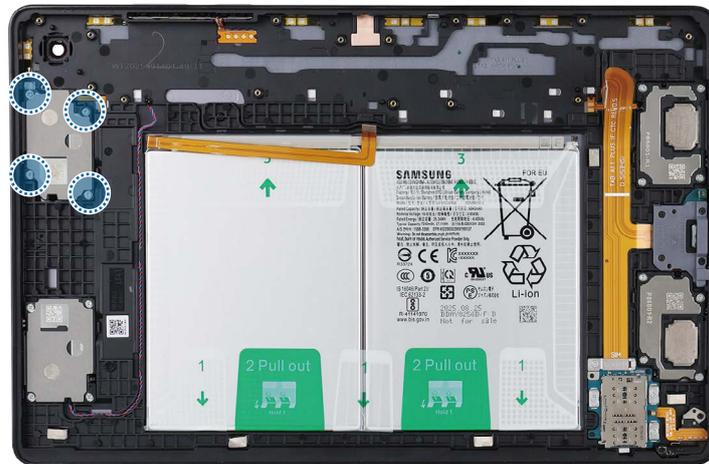


For the 5G or LTE devices, remove the all coaxial cables additionally to disassemble only the main board.



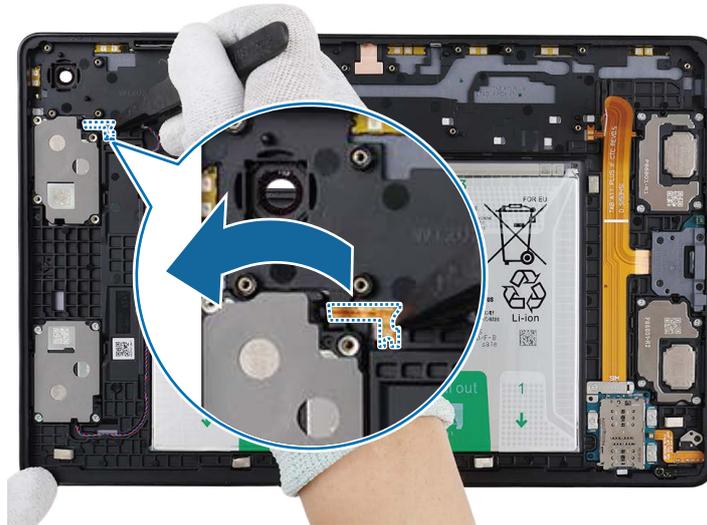
6 Check the 4 screws on the speaker module and remove them using a cross-head screwdriver.

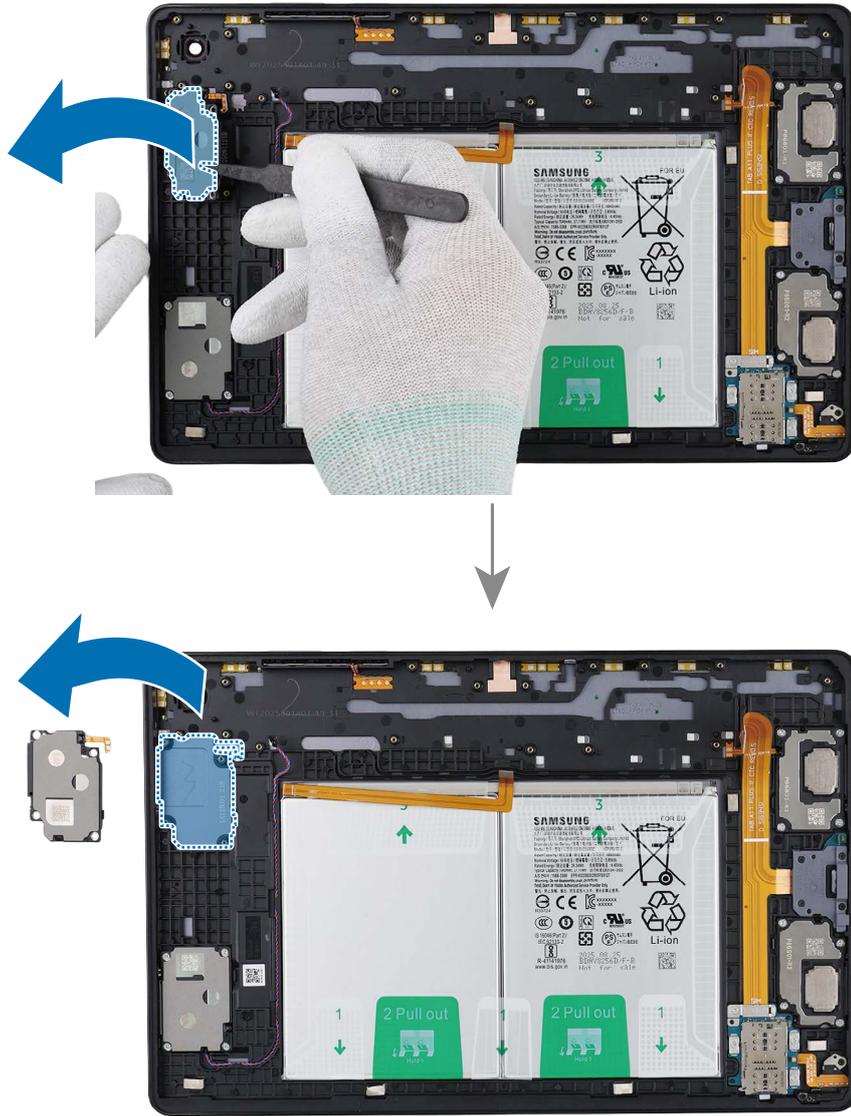
 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



- 7 Using the tweezers, separate the FPCB of the speaker module carefully. Lift up on the separator groove of speaker module and remove it carefully from the device frame with the tweezers.

⚠ Be careful not to damage the cables.



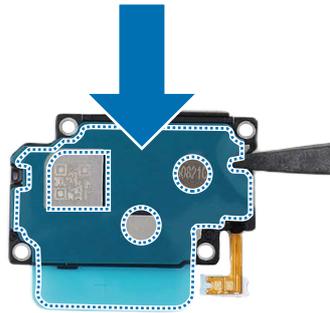


Reassembly

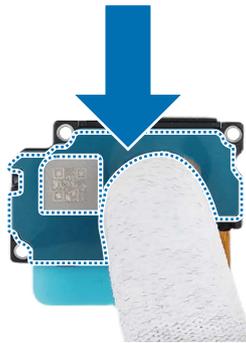
 Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

1 Remove the release film from the new speaker 2 foam tape and align it precisely to the new speaker module, then attach it.

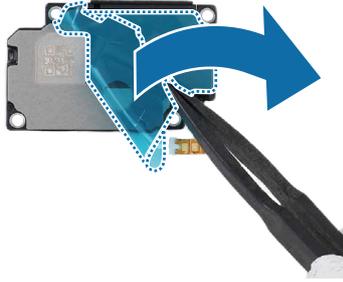
 Be careful not to damage the speaker module.



2 Gently press down the tape to ensure a secure fit with your fingers.



- Using the tweezers, remove the release film from the speaker module carefully.



- Remove all release films from the new speaker module.

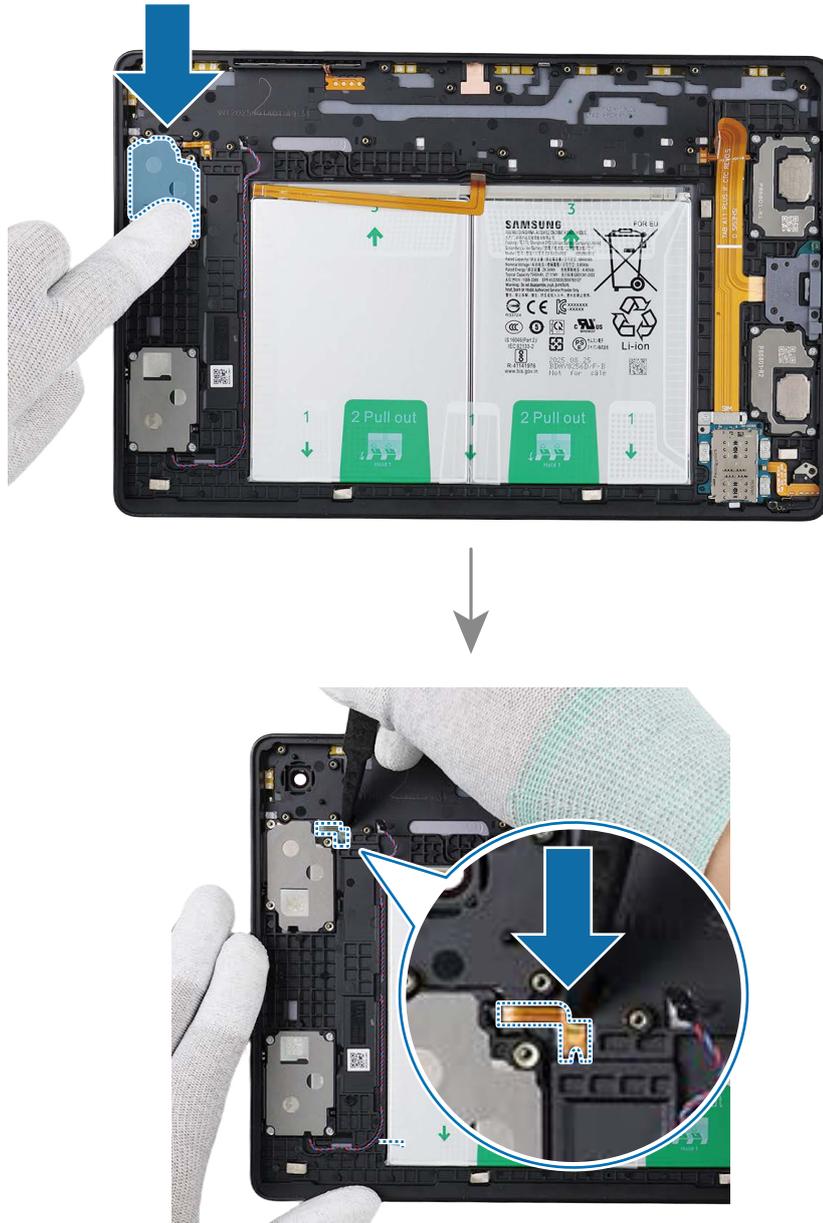


- Place the speaker module to the exact position and assemble it to the device frame.

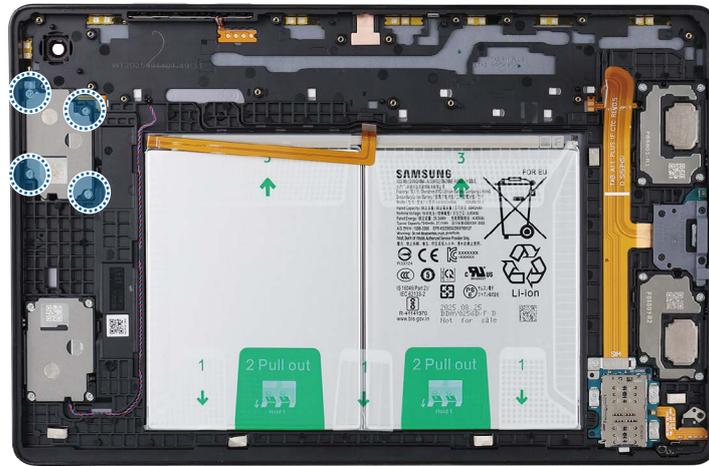
⚠ Be careful not to damage the cables and speaker module.



- 6 Using the tweezers and your fingers, press down softly and evenly on the speaker module so that the speaker module can be completely assembled.

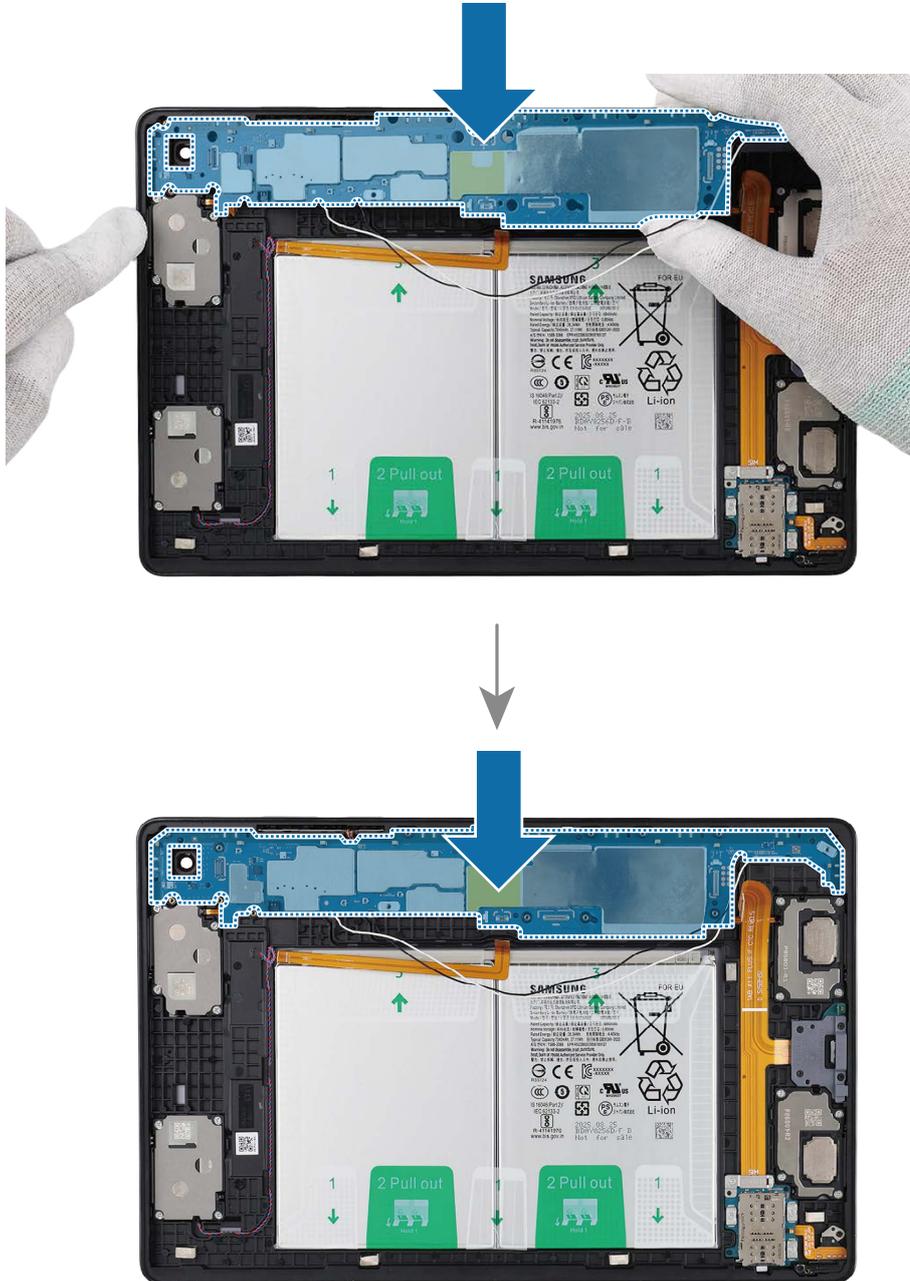


- 7 Check the screw 3631 (4 ea) at the 4 different points on the speaker module. Fasten them using a cross-head screwdriver.



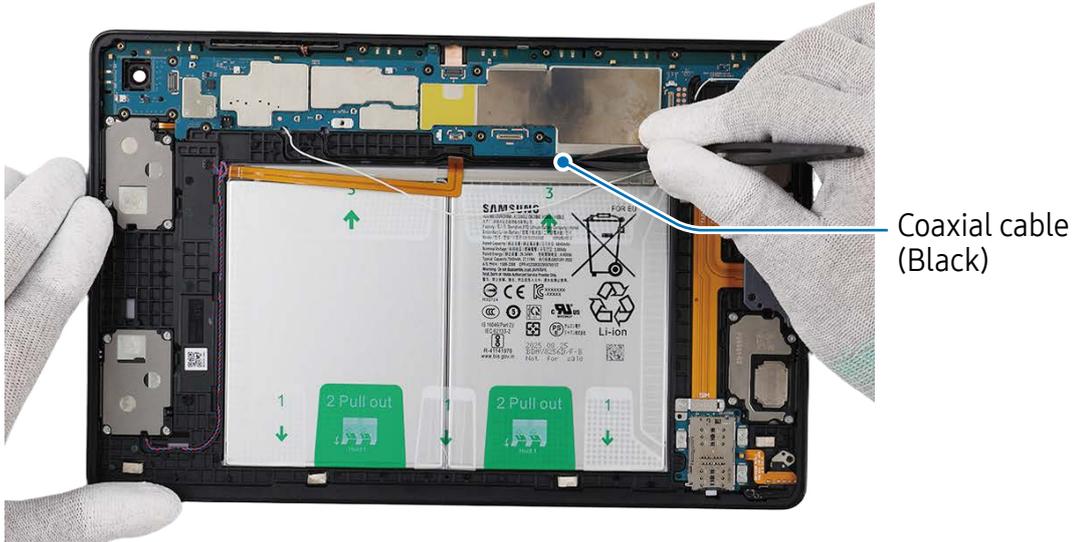
8 Place the main board to the exact position of the device frame. Press down softly and evenly on the main board so that the main board can be completely attached.

⚠ Be careful not to damage the main board and speaker module.

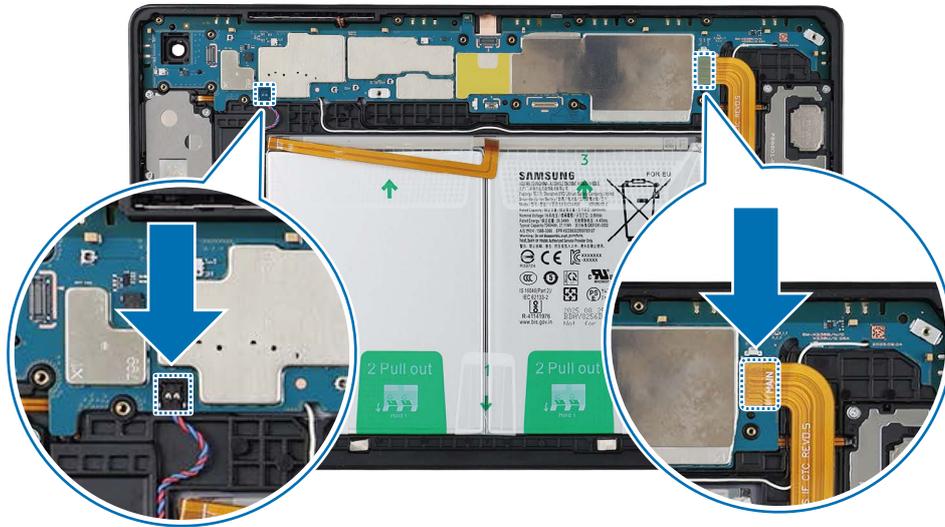


9 For the 5G or LTE devices, assemble the 2 coaxial cables (White/Black) to the device frame.

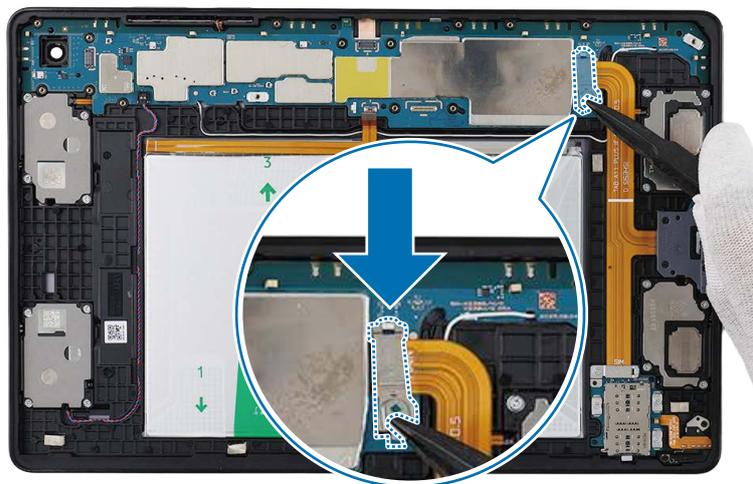
- The 2 coaxial cables (White/Black) are only available for the 5G or LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



10 Connect the 2 flex cable connectors to the main board.

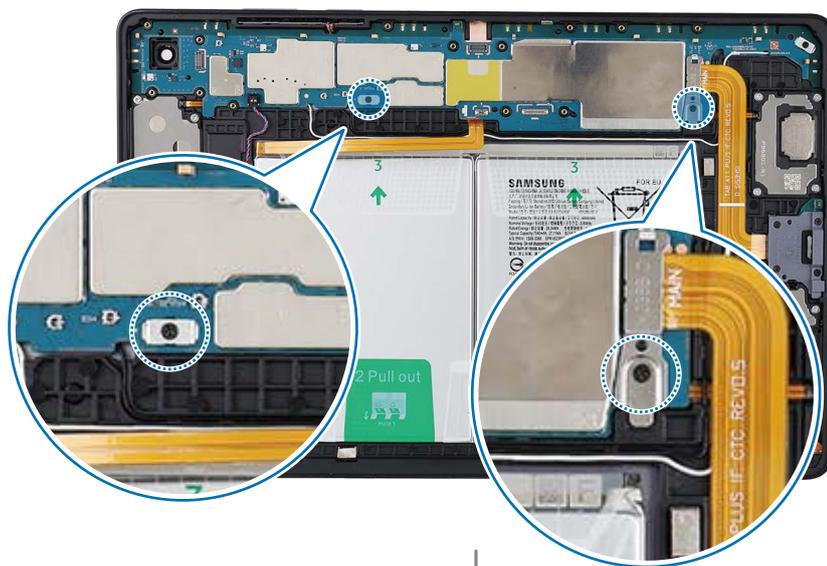


11 Using the tweezers, assemble the top metal plate of a flex cable.



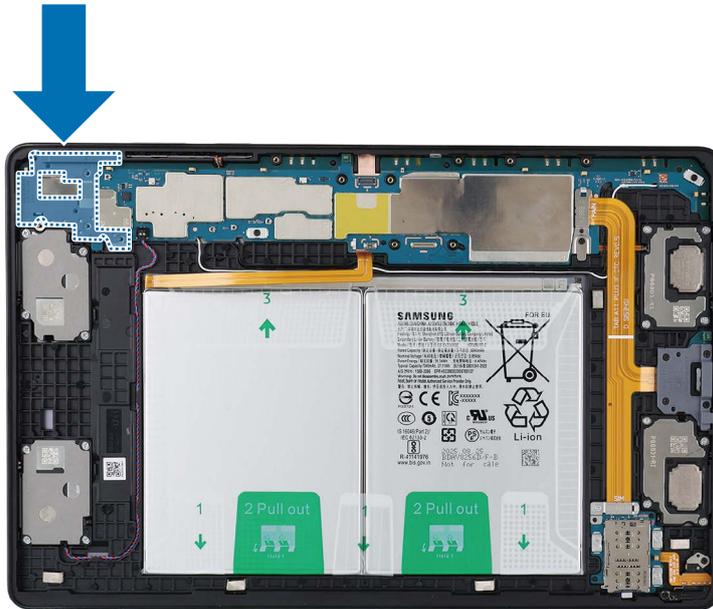
12 Check the screw 3630 (2 ea) at the 2 different points on the main board and fasten them using a cross-head screwdriver. For the 5G or LTE devices, fasten the additional screw 3630 on the main board.

- ☑ • 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.
- The fasteners may vary depending on the country, region, or specification.
- The additional screw is only available for the 5G or LTE devices.

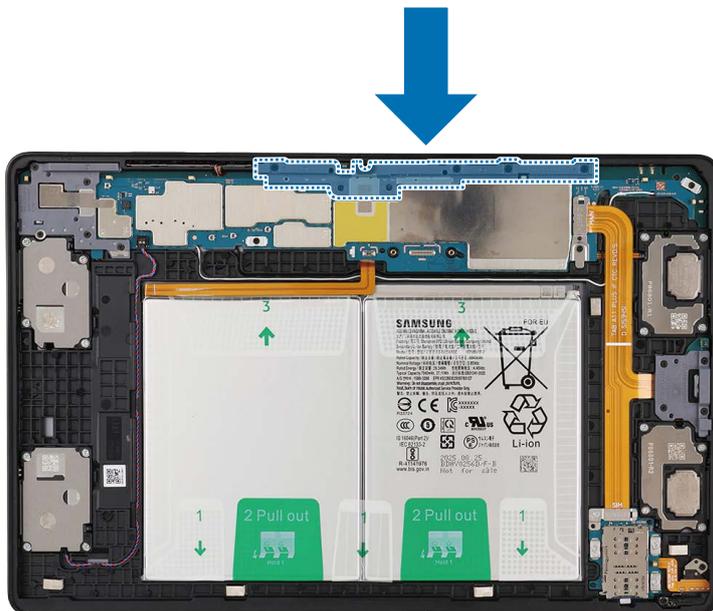


Only for the 5G or LTE devices

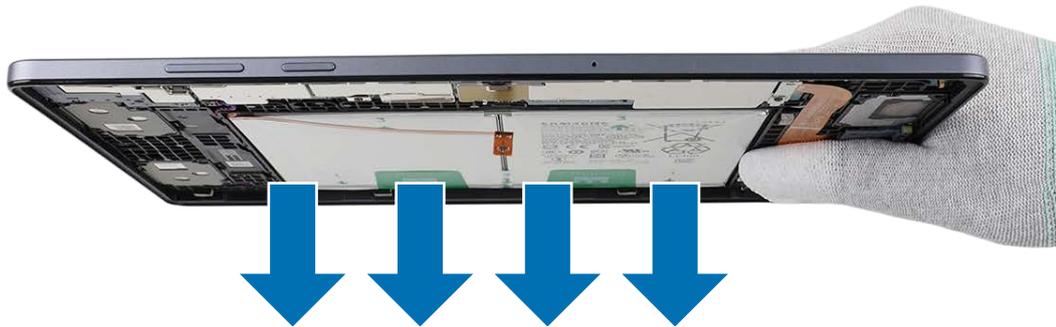
- 13 Check for the reassembly steps of the [Rear Camera](#) and completely reassemble the rear camera and the rear camera bracket.



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



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



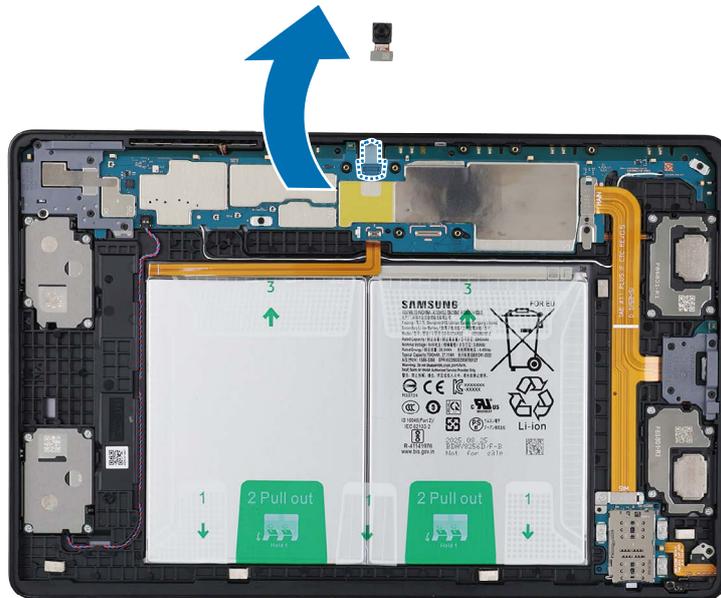
-  Reassemble the [Screen](#) to complete assembly.

Speaker 3

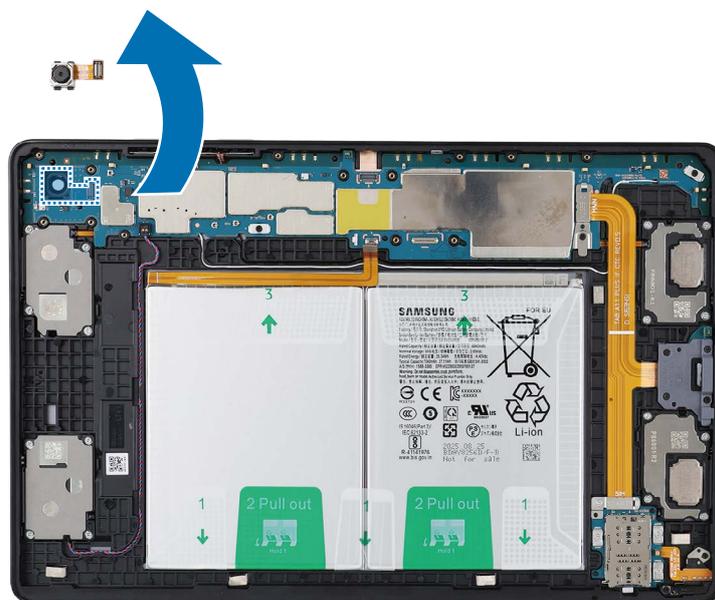
Disassembly

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

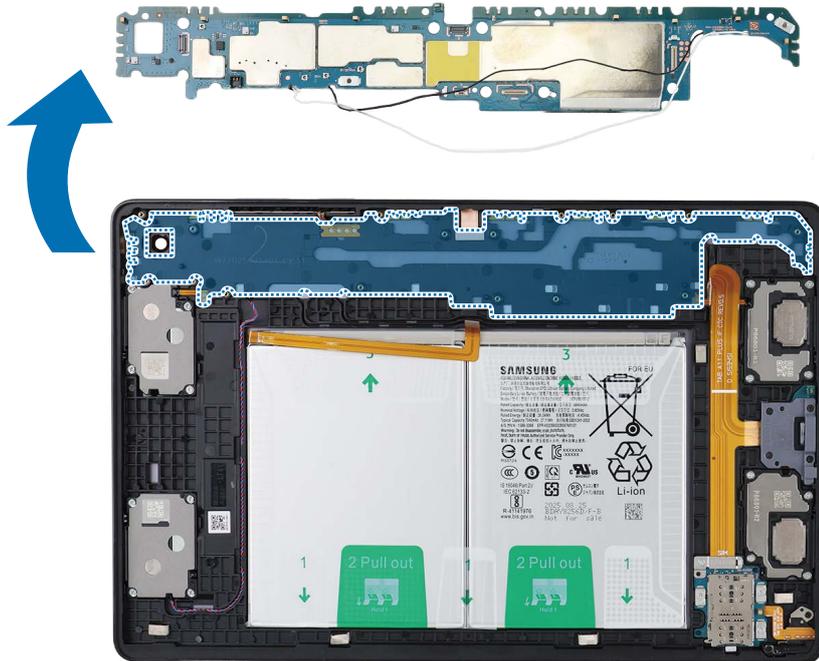
- 1 Check for the disassembly steps of the [Front Camera](#) and completely separate the front camera.



- 2 Check for the disassembly steps of the [Rear Camera](#) and completely separate the rear camera.



- 3 Check for the disassembly steps of the [Speaker 2](#) and completely separate the main board.

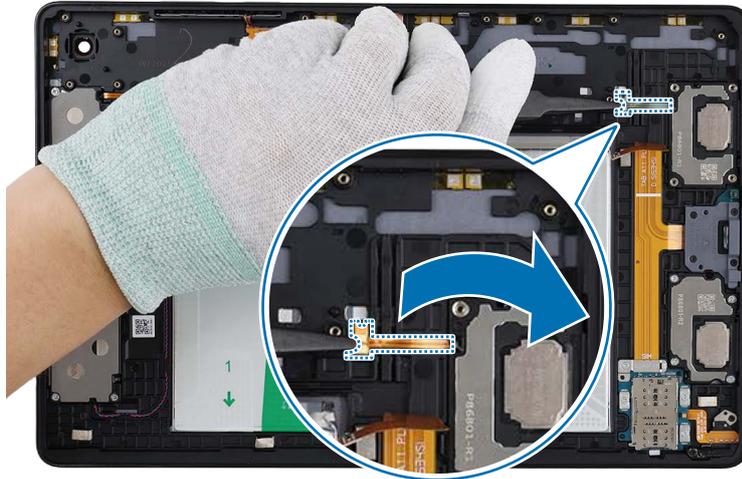


4 Check the 4 screws on the speaker module and remove them using a cross-head screwdriver.

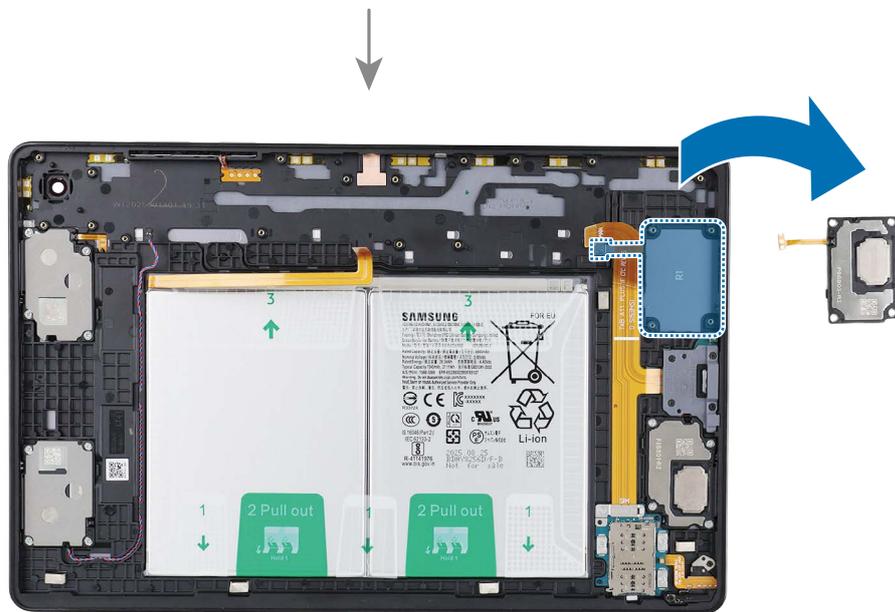
 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



- 5 Using the tweezers, separate the FPCB of speaker module carefully. Lift up on the separator groove of speaker module and remove it carefully from the device frame.
 - ⚠ The FPCB cables have to be positioned outside so as not to interfere when disassembling the speaker.



Disassembly and Assembly



Reassembly

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

1 Remove all release films from the new speaker module.



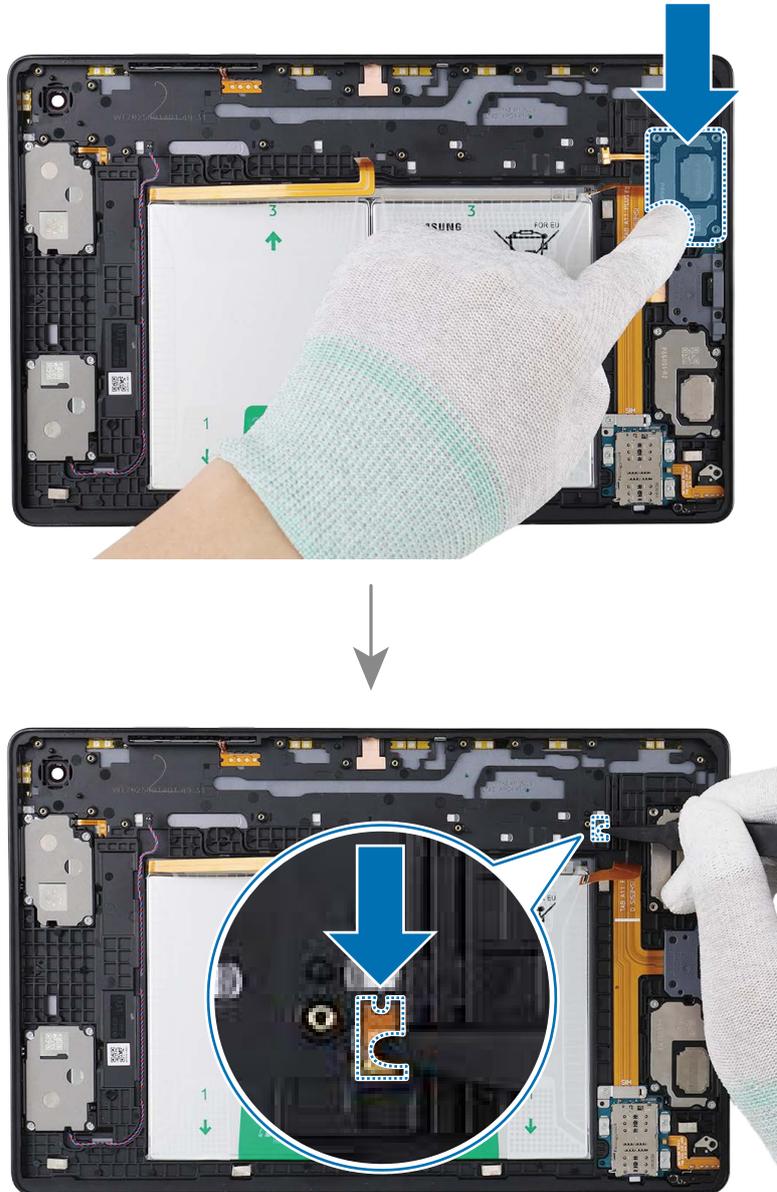
2 Place the speaker module to the exact position and assemble it to the device frame.

! Be careful not to damage the speaker module and the near components.

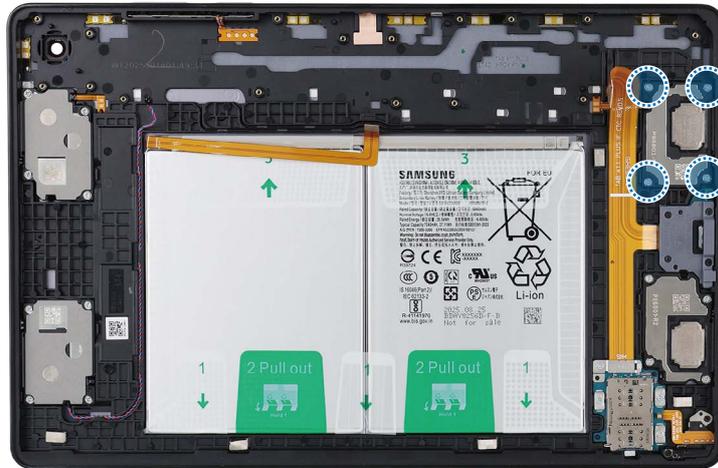


3 Using the tweezers and your fingers, press down softly and evenly on the speaker module so that the speaker module can be completely assembled.

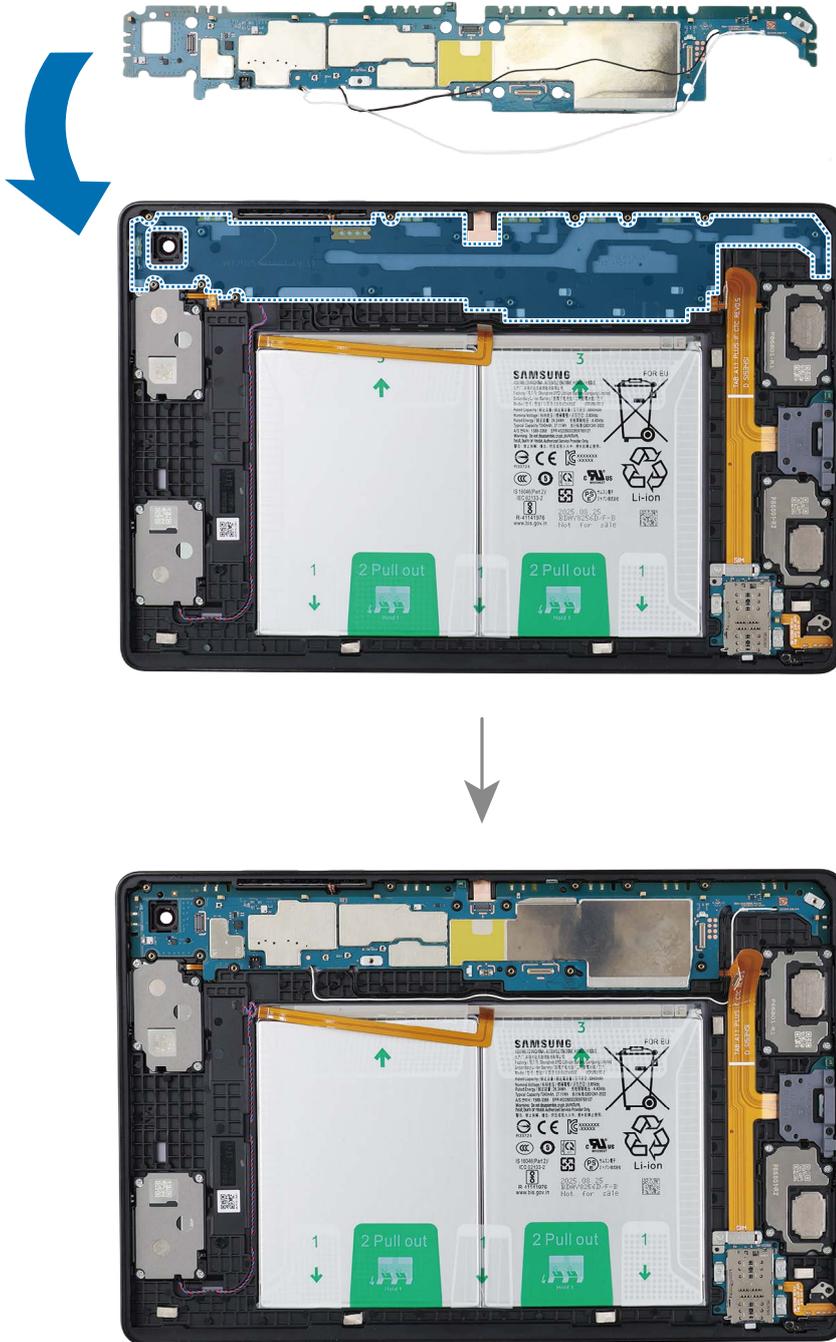
⚠ The FPCB cables have to be positioned outside so as not to interfere when assembling the speaker.



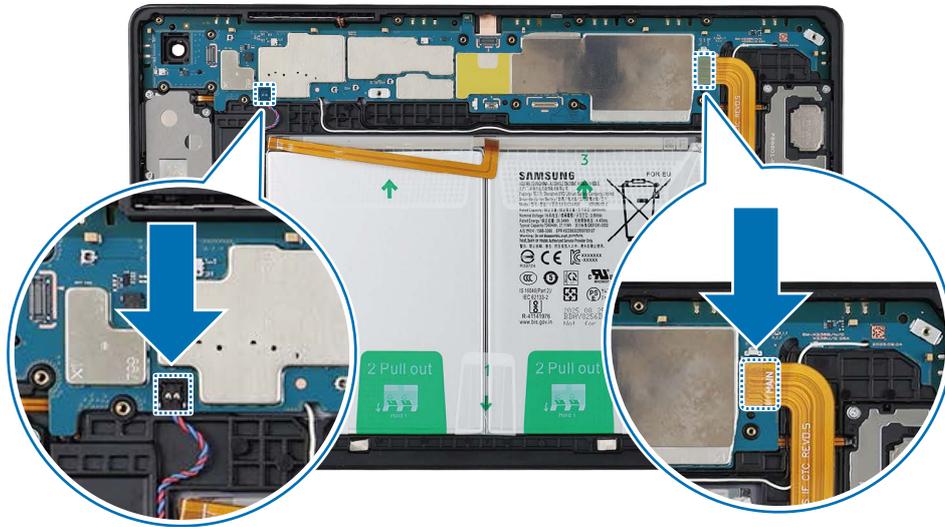
- 4 Check the screw 3631 (4 ea) at the 4 different points on the speaker module. Fasten them using a cross-head screwdriver.



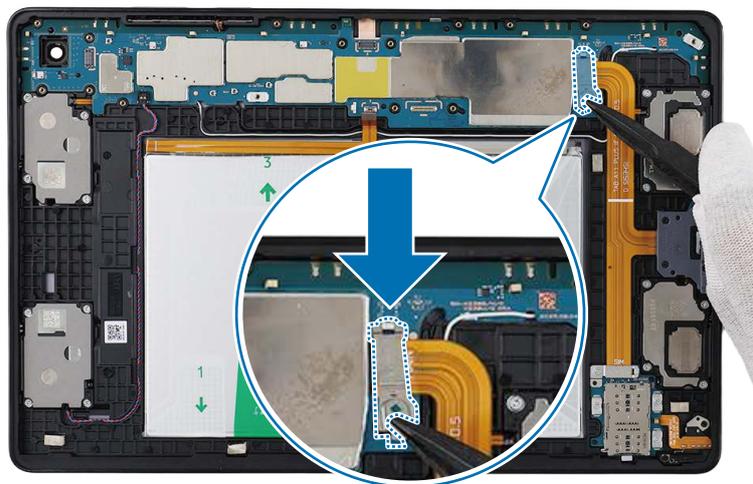
- 5 Check for the reassembly steps of the **Speaker 2** and completely reassemble the main board.



6 Connect the 2 flex cable connectors to the main board.



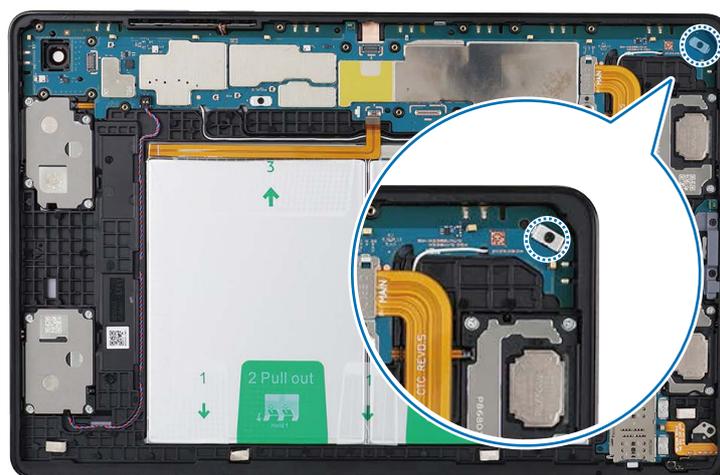
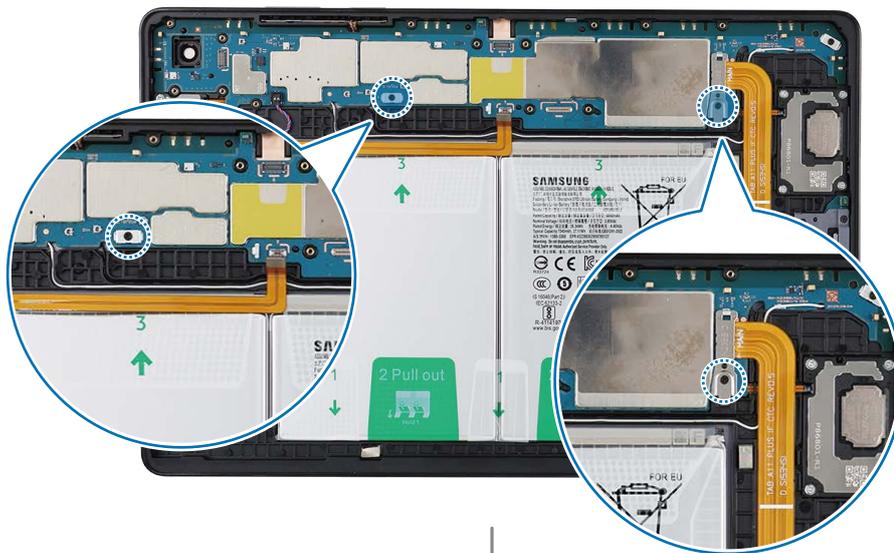
7 Using the tweezers, assemble the top metal plate of a flex cable.



8 Check the screw 3630 (2 ea) at the 2 different points on the main board and fasten them using a cross-head screwdriver. For the 5G or LTE devices, fasten the additional screw 3630 on the main board.

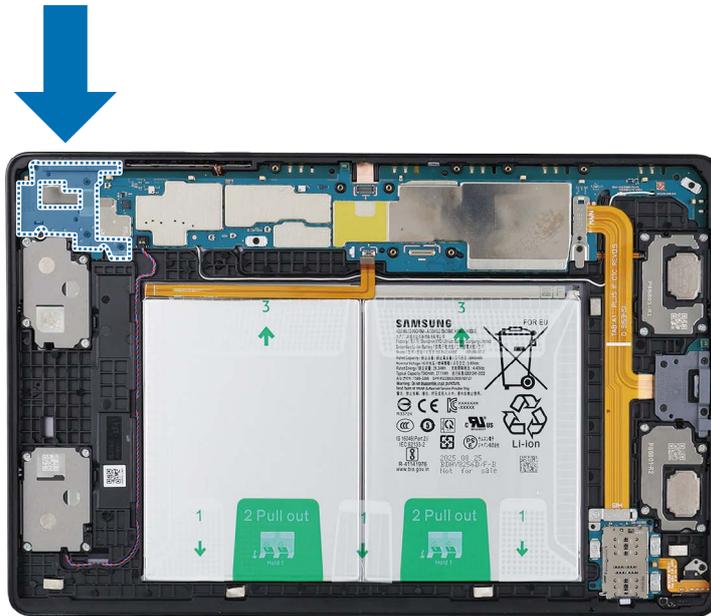


- Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.
- The fasteners may vary depending on the country, region, or specification.
- The additional screw is only available for the 5G or LTE devices.

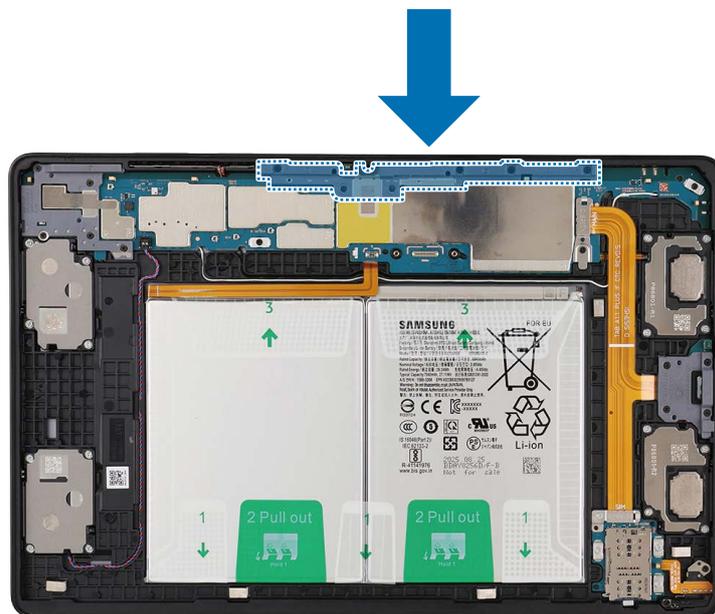


Only for the 5G or LTE devices

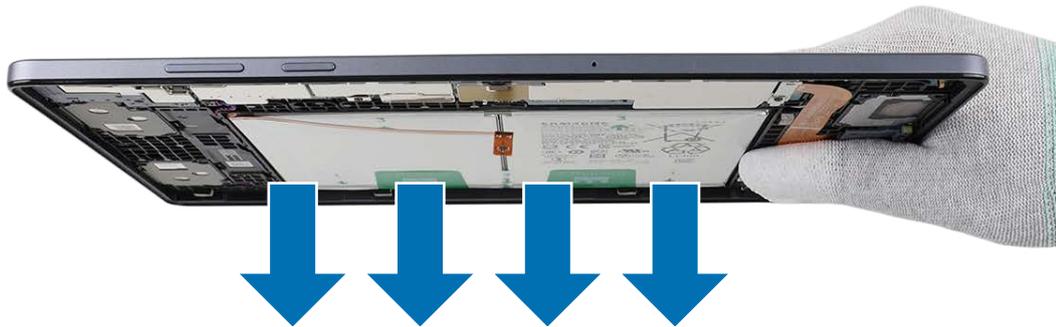
- 9 Check for the reassembly steps of the [Rear Camera](#) and completely reassemble the rear camera and the rear camera bracket.



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



- 11 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 device facing down to remove any remaining screws.



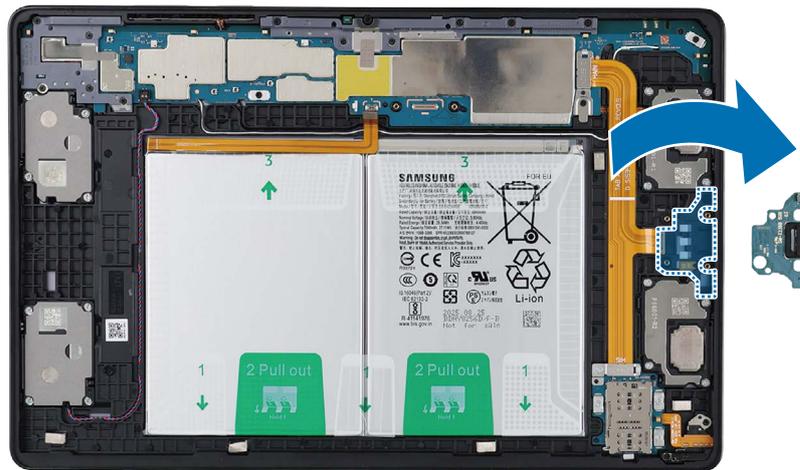
-  Reassemble the [Screen](#) to complete assembly.

Speaker 4

Disassembly

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

- 1 Check for the disassembly steps of the [Charging Port and Microphone](#) and completely separate the charging port module from the device frame with the tweezers.

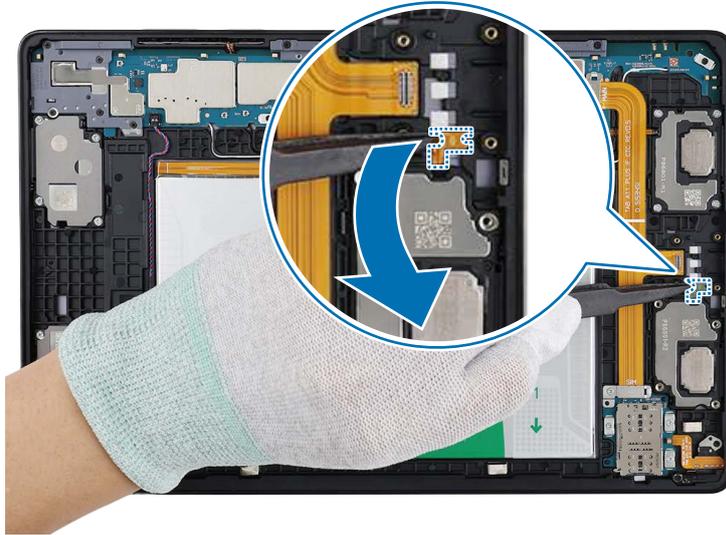


- 2 Check the 4 screws on the speaker module and remove them using a cross-head screwdriver.

 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.



- 3 Using the tweezers, separate the FPCB of the speaker module carefully. Lift up on the separator groove of speaker module and remove it carefully from the device frame with the tweezers.





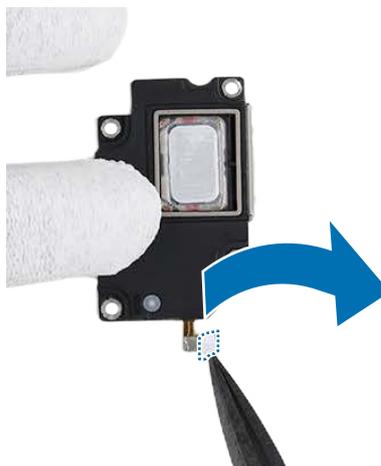
Reassembly

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

- 1 Using the tweezers, remove all adhesive tapes from where the speaker module was attached.



- 2 Remove all release films from the new speaker module.

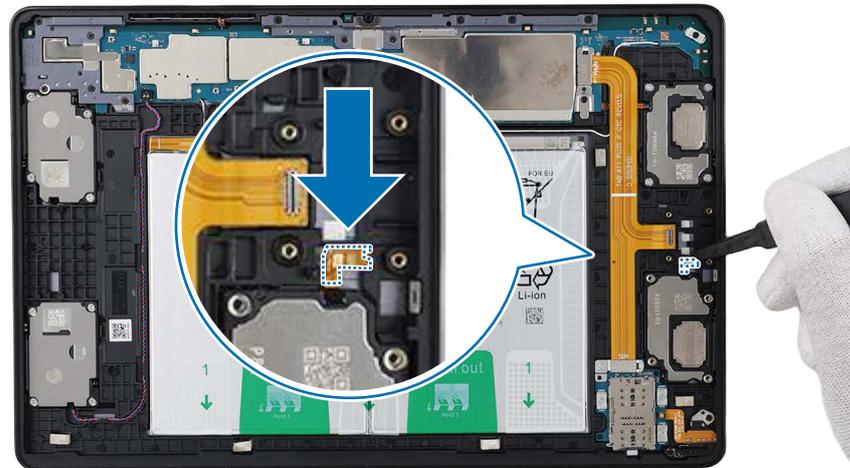
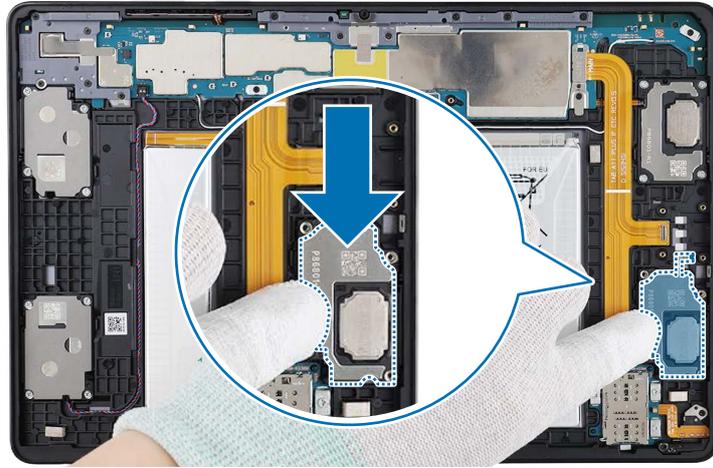


3 Place the speaker module to the exact position and assemble it to the device frame.

⚠ Be careful not to damage the cables and speaker module.



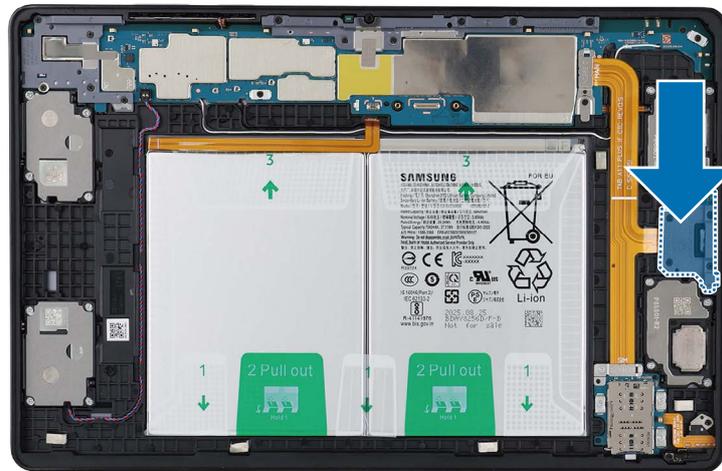
- 4 Using the tweezers and your fingers, press down softly and evenly on the speaker module so that the speaker module can be completely assembled.



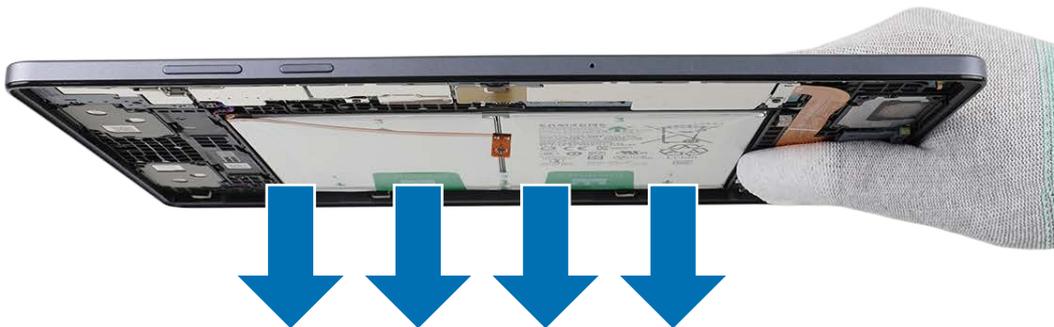
- 5 Check the screw 3631 (4 ea) at the 4 different points on the speaker module. Fasten them using a cross-head screwdriver.



- 6 Check for the reassembly steps of the [Charging Port and Microphone](#) and completely reassemble the charging port module and charging port bracket to the device frame.



- 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 device facing down to remove any remaining screws.



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

Button

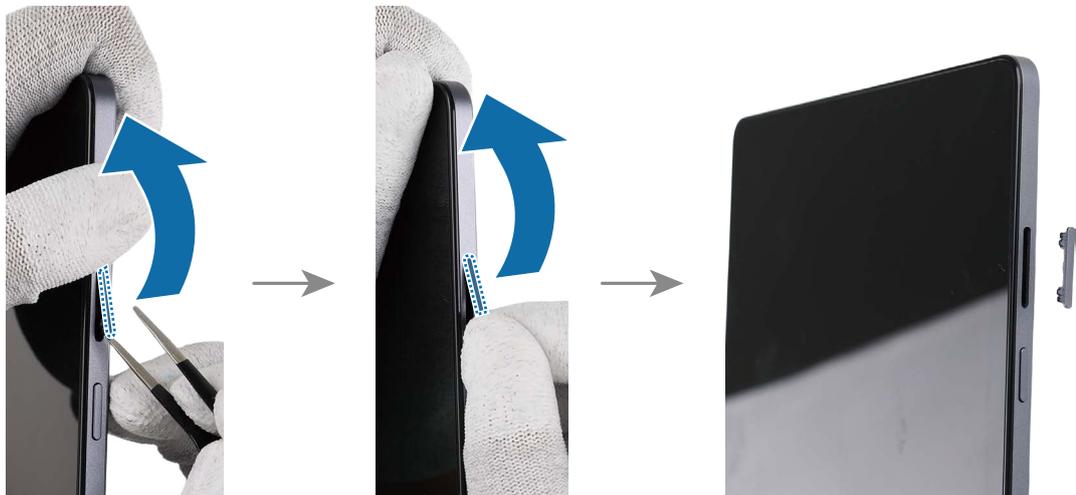
Disassembly

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

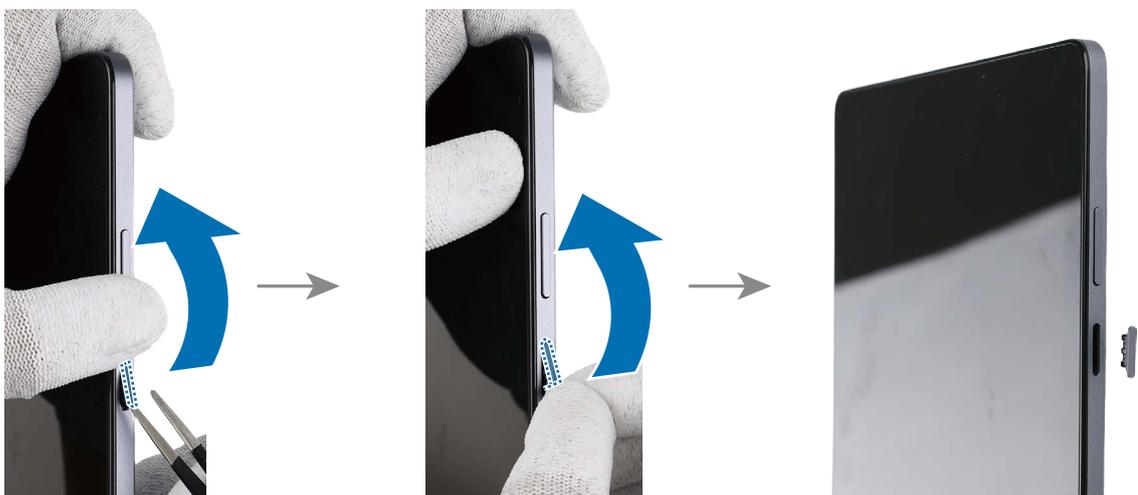
⚠ When holding the buttons with a tweezers, be very careful not to damage or scratch the device.

🔪 If you have trouble separating the buttons with your tweezers, please try using a sharper and thinner tool.

<Volume Button>



<Side Button>

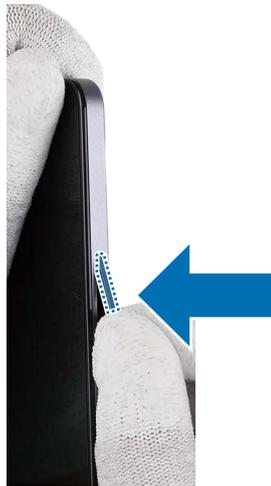


Reassembly

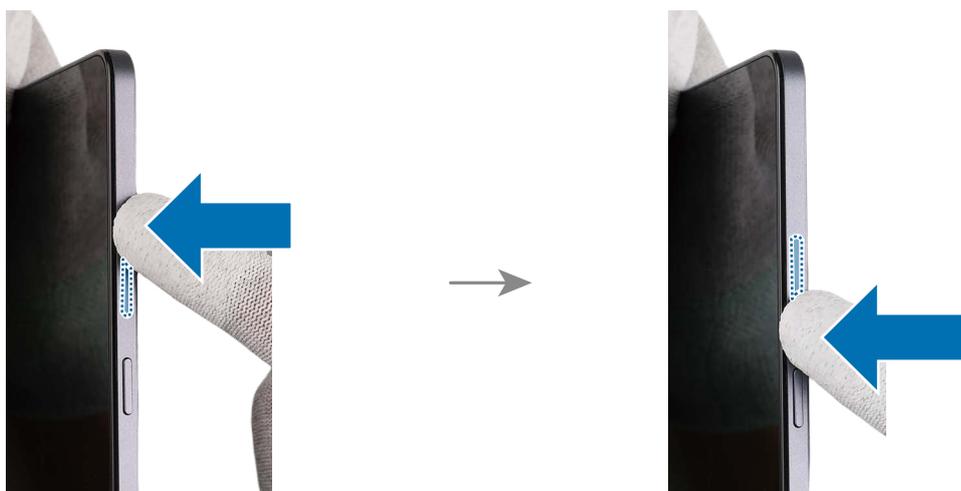
 Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

1 Remove the release film of new volume button. Use your fingers to grab the volume button and insert the button into the slot carefully.

-  Be careful not to damage the buttons and device.
- Be careful not to put the button in the wrong direction.



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



3 Remove the release film of new side button. Use your fingers to grab the side button and insert the button into the slot carefully.

- ⚠ • Be careful not to damage the buttons and device.
- Be careful not to put the button in the wrong direction.



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



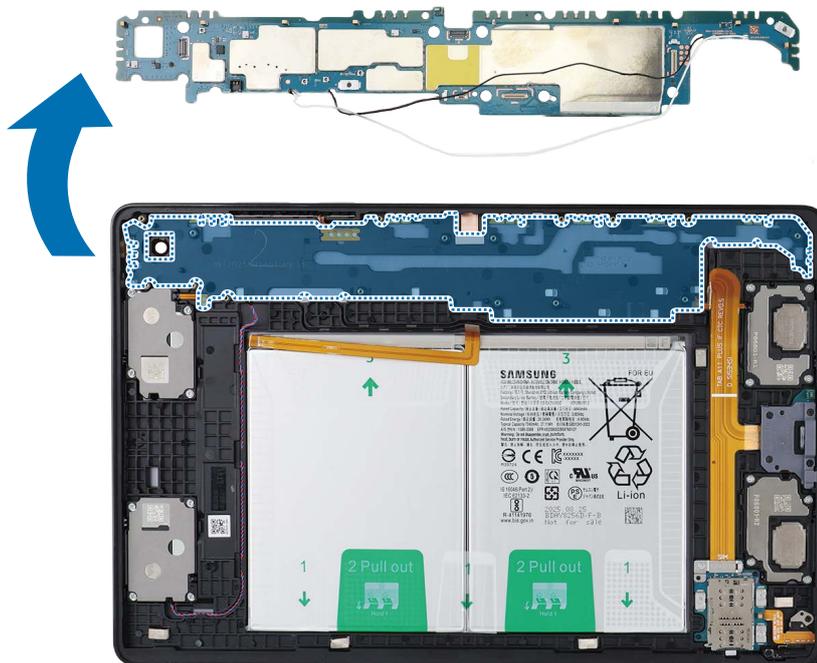
Back Cover Module

 The back cover module consists of the back cover, metal bracket, and battery.

Disassembly

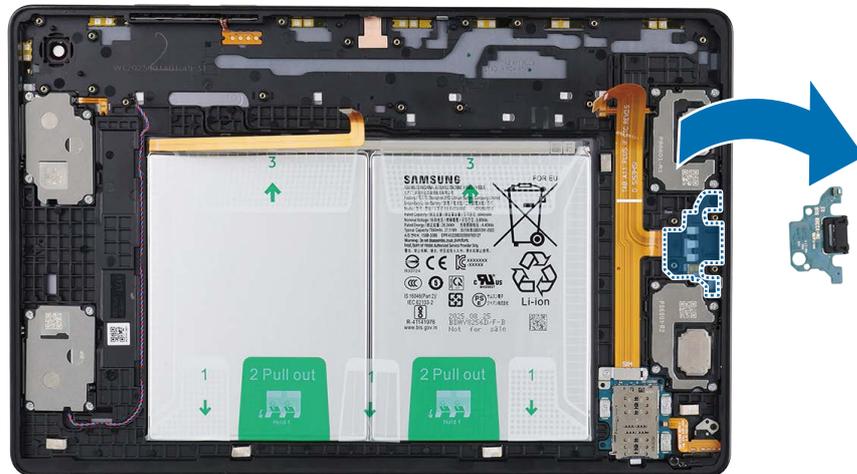
 Remove the [SIM Card Tray](#), [Screen](#), [Front Camera](#), and [Rear Camera](#) first before you begin.

- 1 Check for the disassembly steps of the [Speaker 2](#) and completely separate the main board.



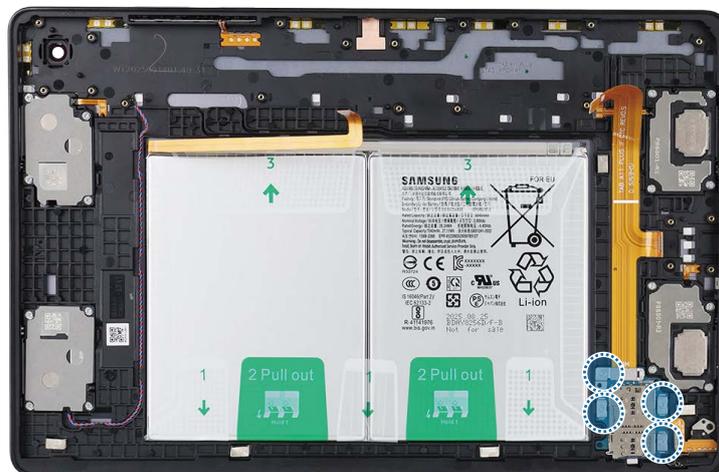
- 2 Check for the disassembly steps of the [Charging Port and Microphone](#) and completely separate the charging port module from the device frame slowly.

 Be careful not to damage the charging port module.

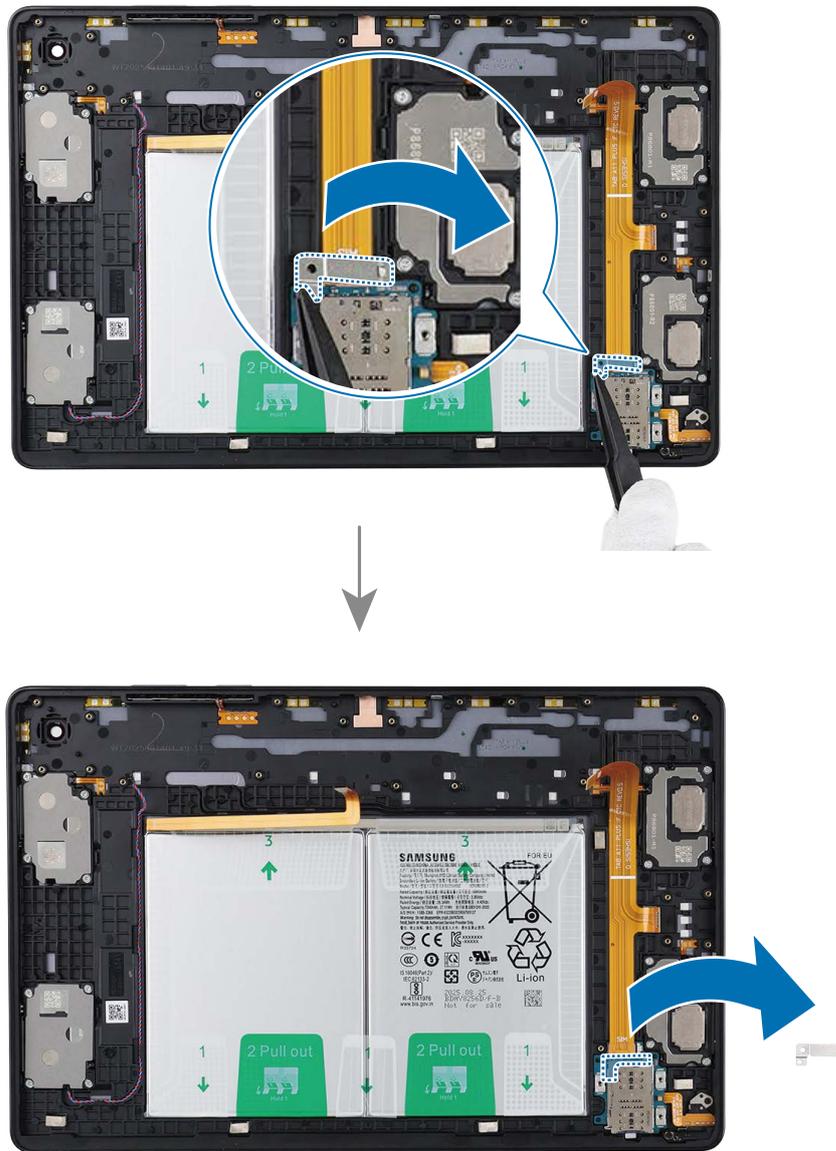


- 3 Check the 4 screws around the SIM card socket and remove them using a cross-head screwdriver.

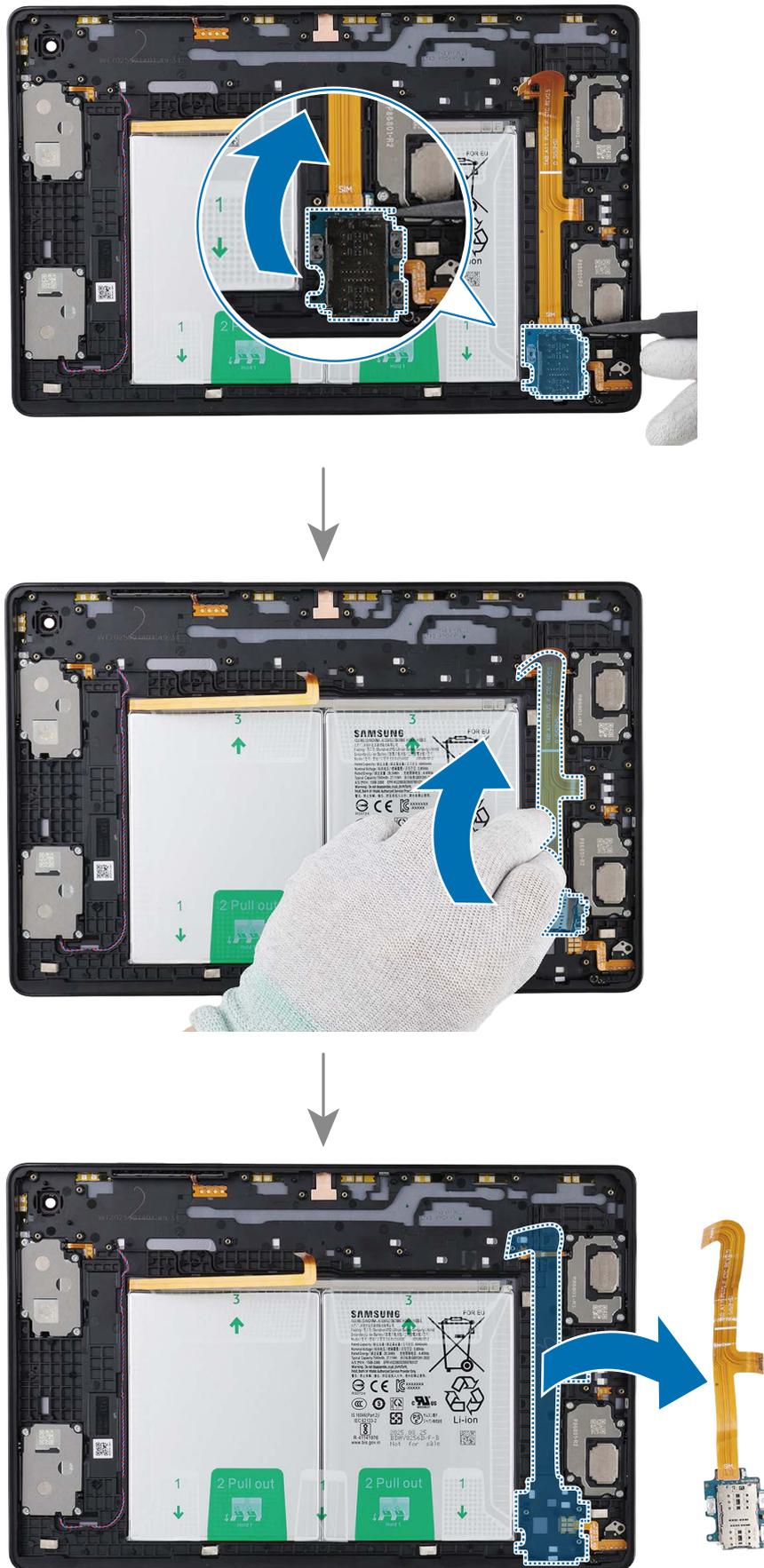
 Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



4 Using the tweezers, remove the bottom metal plate of a flex cable.

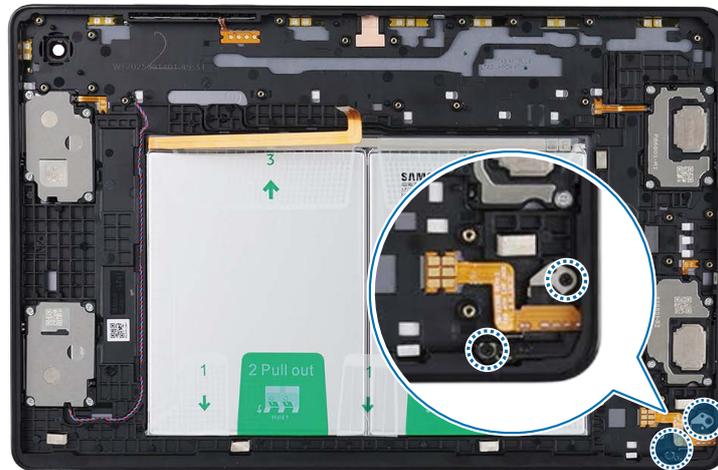


- Using the tweezers and your fingers, lift up on the separator groove of the SIM card socket and separate it from the device frame slowly.

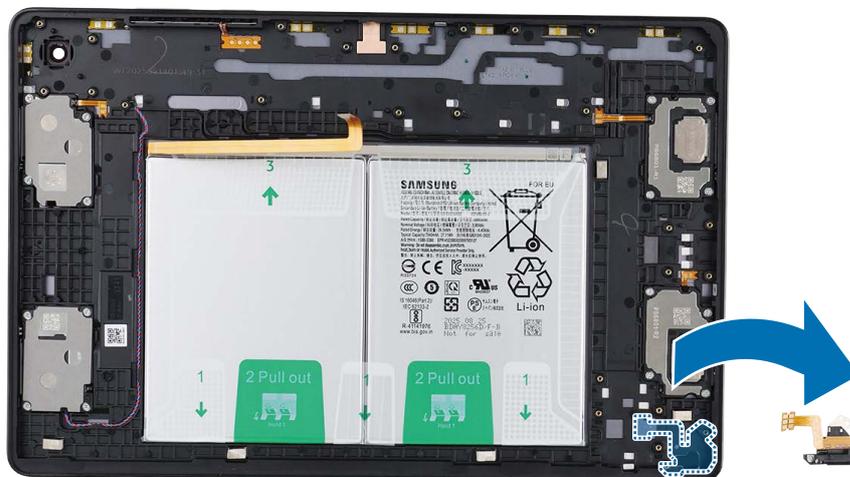
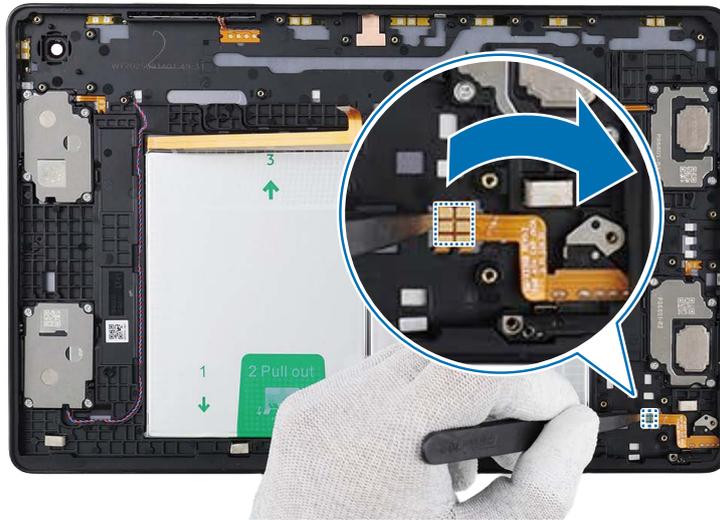


6 Check the 2 screws on the headphone jack module and remove them using a cross-head screwdriver.

 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.

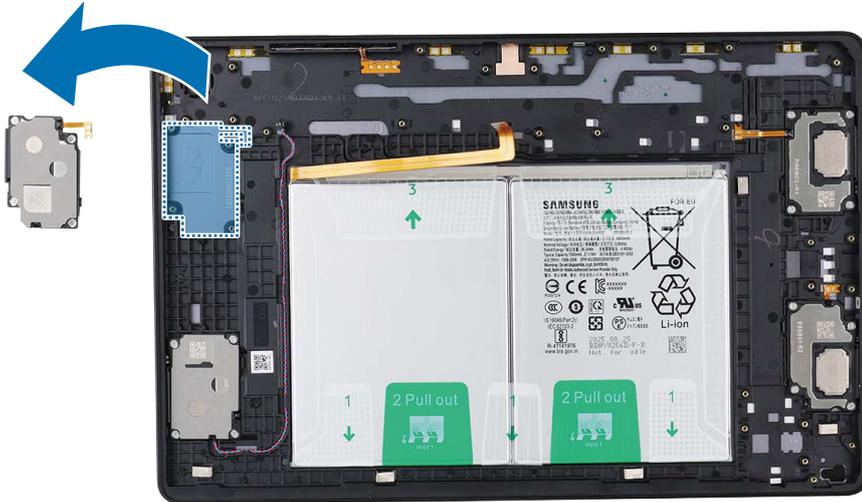


- Using the tweezers, separate the FPCB of headphone jack module carefully. Then lift up the headphone jack and remove it from the device frame.

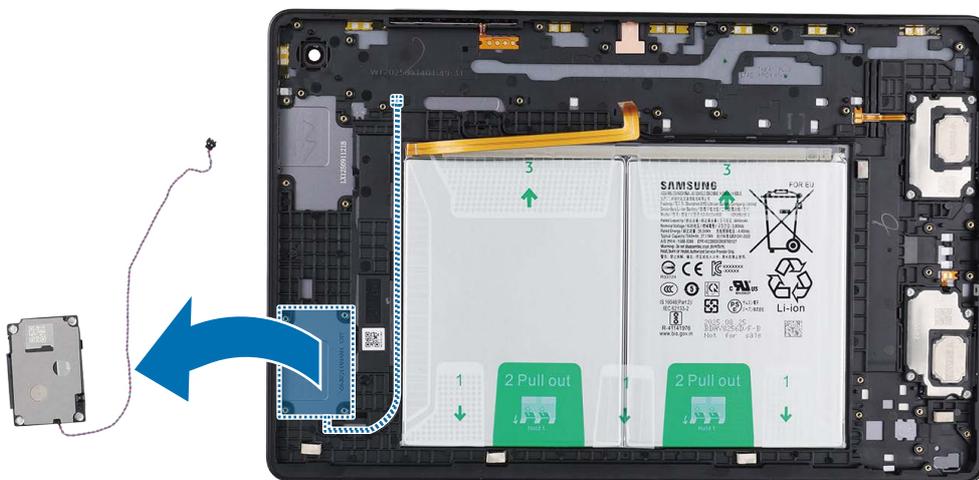


8 Check for the disassembly steps of the **Speaker 2** and completely separate the speaker 2 from the device frame slowly.

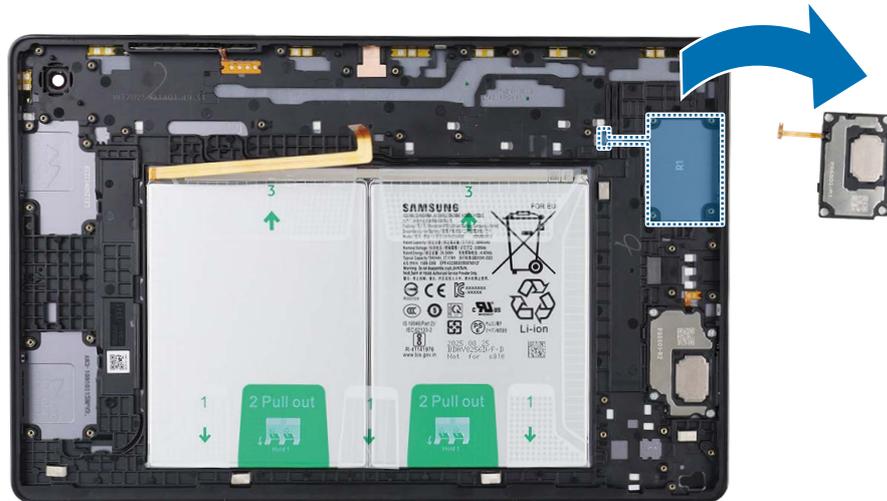
⚠ Be careful not to damage the speaker module.



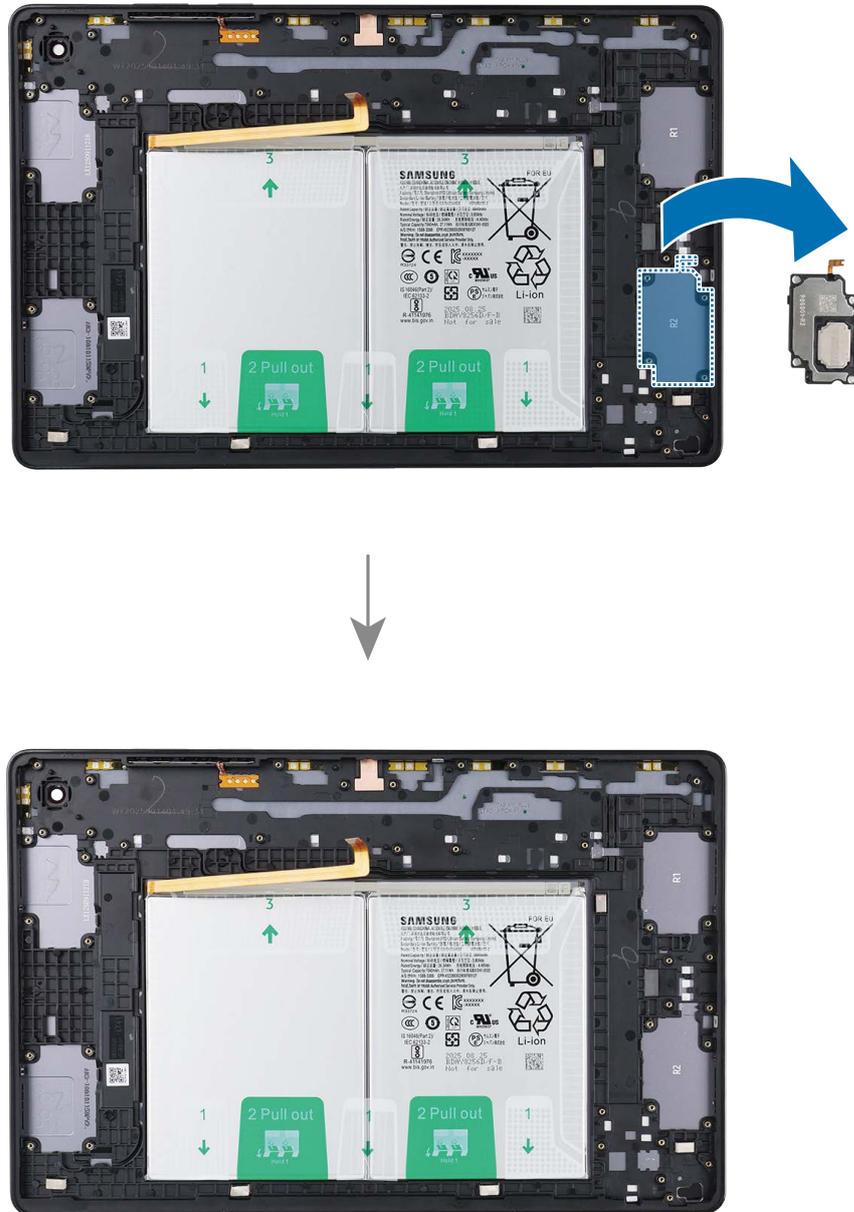
9 Check for the disassembly steps of the **Speaker 1** and completely separate the speaker 1 from the device frame slowly.



- 10 Check for the disassembly steps of the [Speaker 3](#) and completely separate the speaker 3 from the device frame slowly.



- 11 Check for the disassembly steps of the [Speaker 4](#) and completely separate the speaker 4 from the device frame slowly.



Reassembly

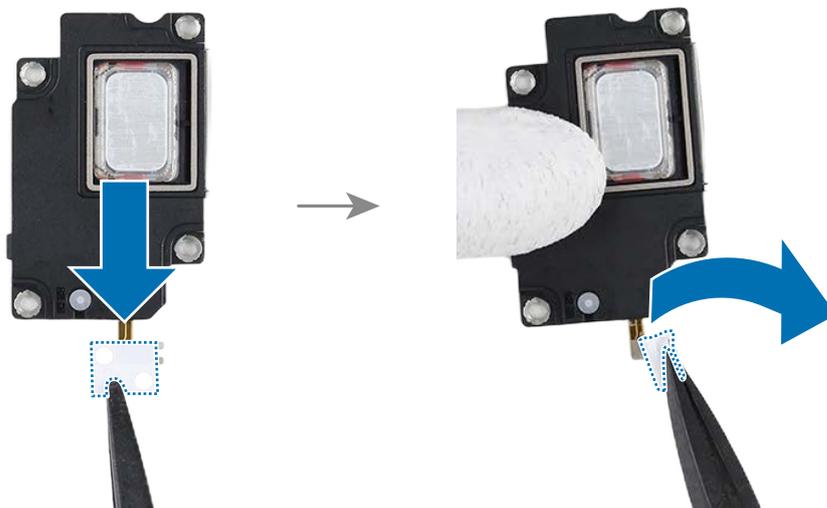
- !** Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

- 1 Prepare the separated speaker 4 module and remove the remaining adhesive from the FPCB.



- 2 Remove the release film from the new speaker 4 FPCB adhesive tape and attach it to the FPCB of speaker 4 module with the tweezers. Press the tape with your fingers so that it can be attached well and remove the release film from the attached tape.

- !** Be careful not to damage the speaker module.

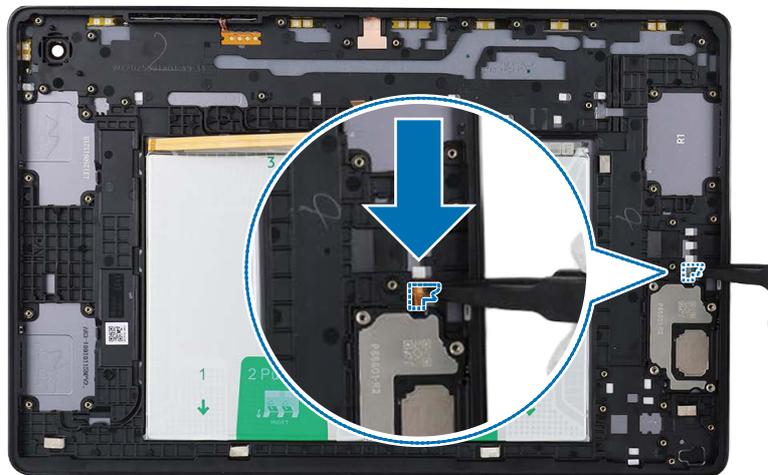
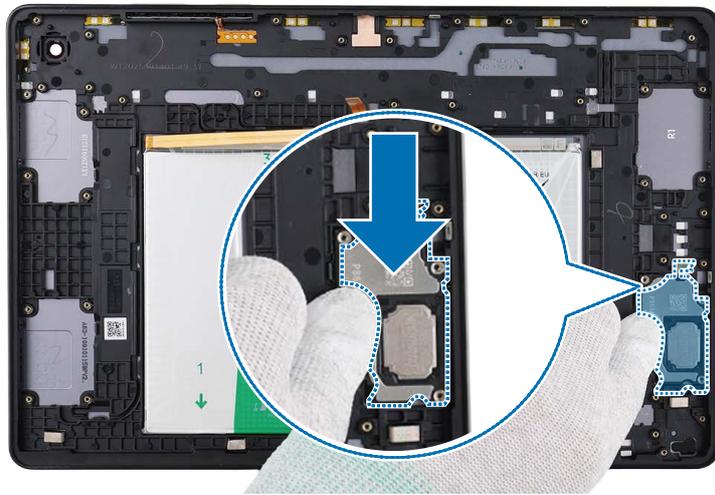


3 Place the speaker module to the exact position and assemble it to the device frame.

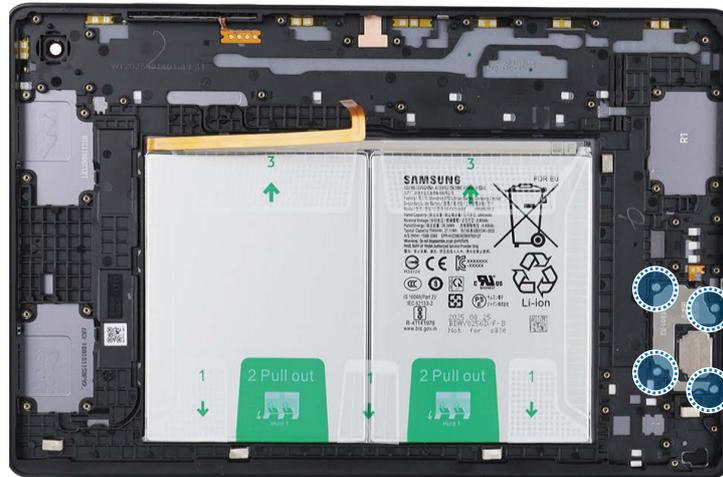
⚠ Be careful not to damage the cables and speaker module.



- 4 Using the tweezers and your fingers, press down softly and evenly on the speaker module so that the speaker module can be completely assembled.



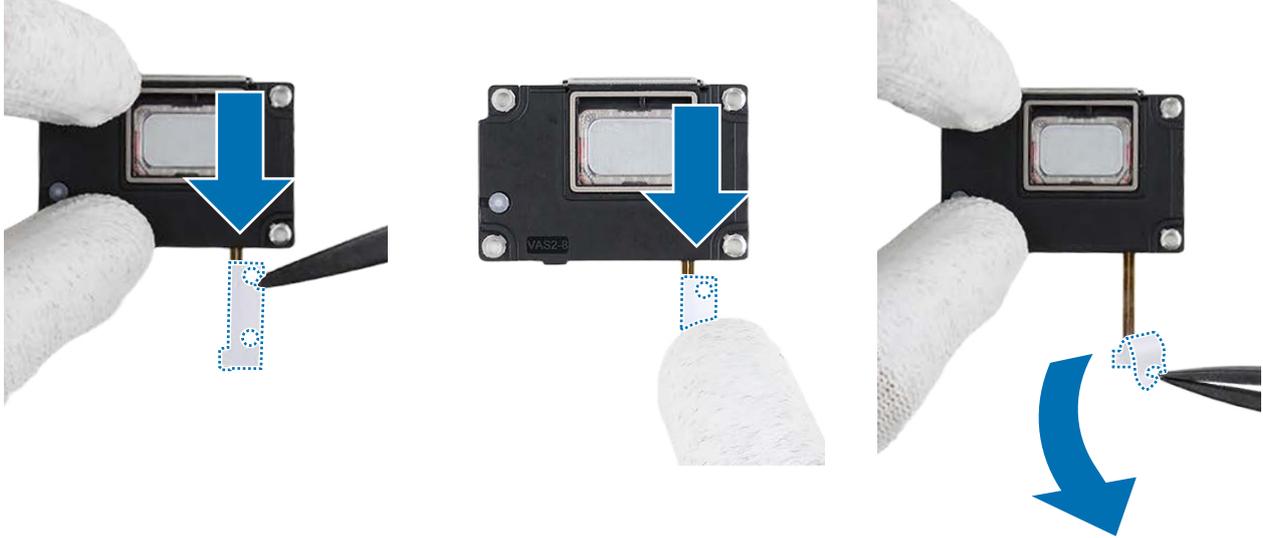
- 5 Check the screw 3631 (4 ea) at the 4 different points on the speaker module. Fasten them using a cross-head screwdriver.



- 6 Prepare the separated speaker 3 module and remove the remaining adhesive from the FPCB.



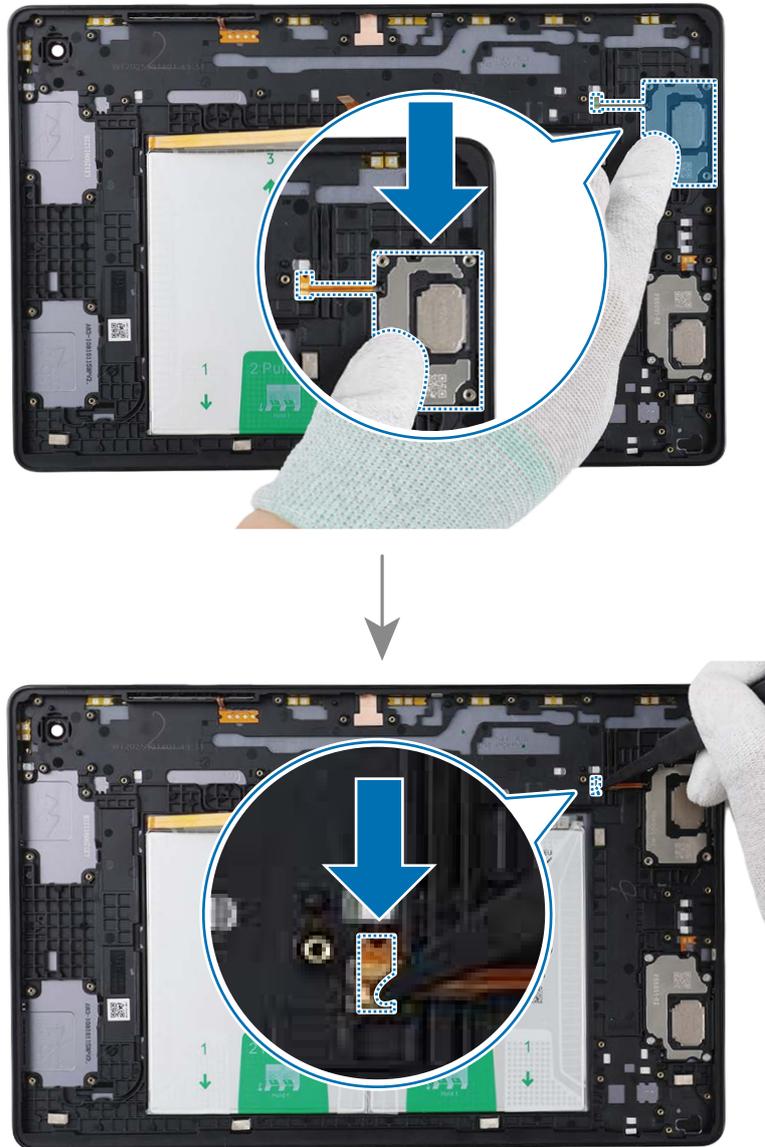
- 7 Remove the release film from the new speaker 3 FPCB adhesive tape and attach it to the FPCB of speaker 3 module with the tweezers. Press the tape with your fingers so that it can be attached well and remove the release film from the attached tape.



- 8 Place the speaker module to the exact position and assemble it to the device frame.
 - ⚠ Be careful not to damage the cables and speaker module.



- 9 Using the tweezers and your fingers, press down softly and evenly on the speaker module so that the speaker module can be completely assembled.



- 10 Check the screw 3631 (4 ea) at the 4 different points on the speaker module. Fasten them using a cross-head screwdriver.

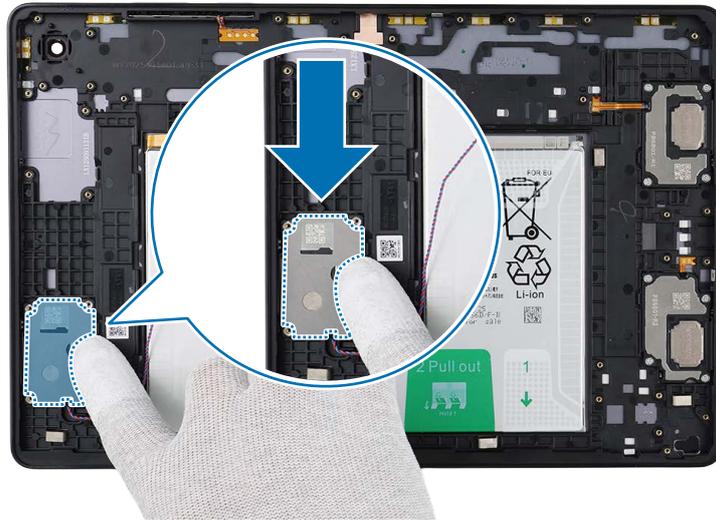


- 11 Prepare the separated speaker1 module and assemble it to the exact position of device frame.

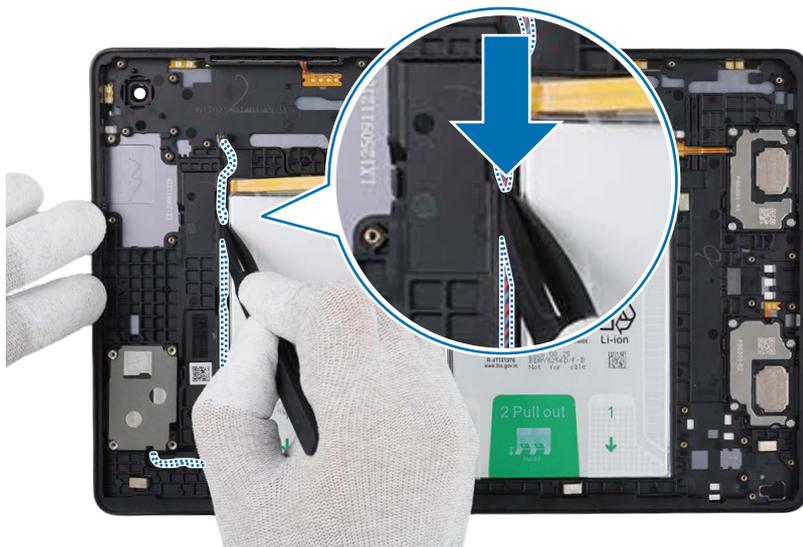
⚠ Be careful not to damage the cables and speaker module.



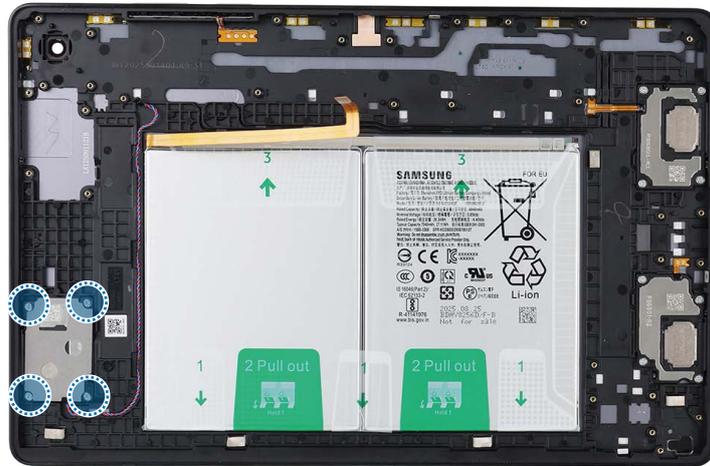
- Using the tweezers and your fingers, press down softly and evenly on the speaker module so that the speaker module can be completely assembled.



- Using the tweezers and your fingers, assemble the cable of the speaker module carefully to the device frame.



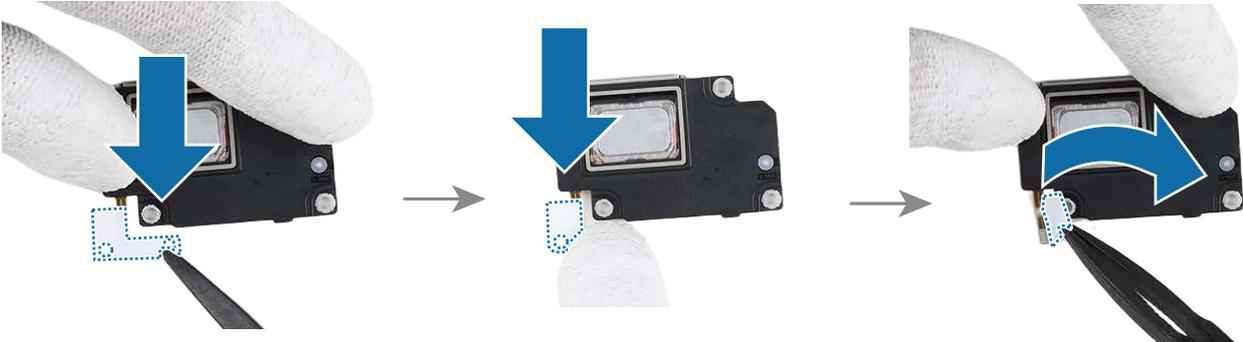
- 14 Check the screw 3631 (4 ea) at the 4 different points on the speaker module. Fasten them using a cross-head screwdriver.



- 15 Prepare the separated speaker 2 module and remove the remaining adhesive from the FPCB.



- 16 Remove the release film from the new speaker 2 FPCB adhesive tape and attach it to the FPCB of speaker 2 module with the tweezers. Press the tape with your fingers so that it can be attached well and remove the release film from the attached tape.

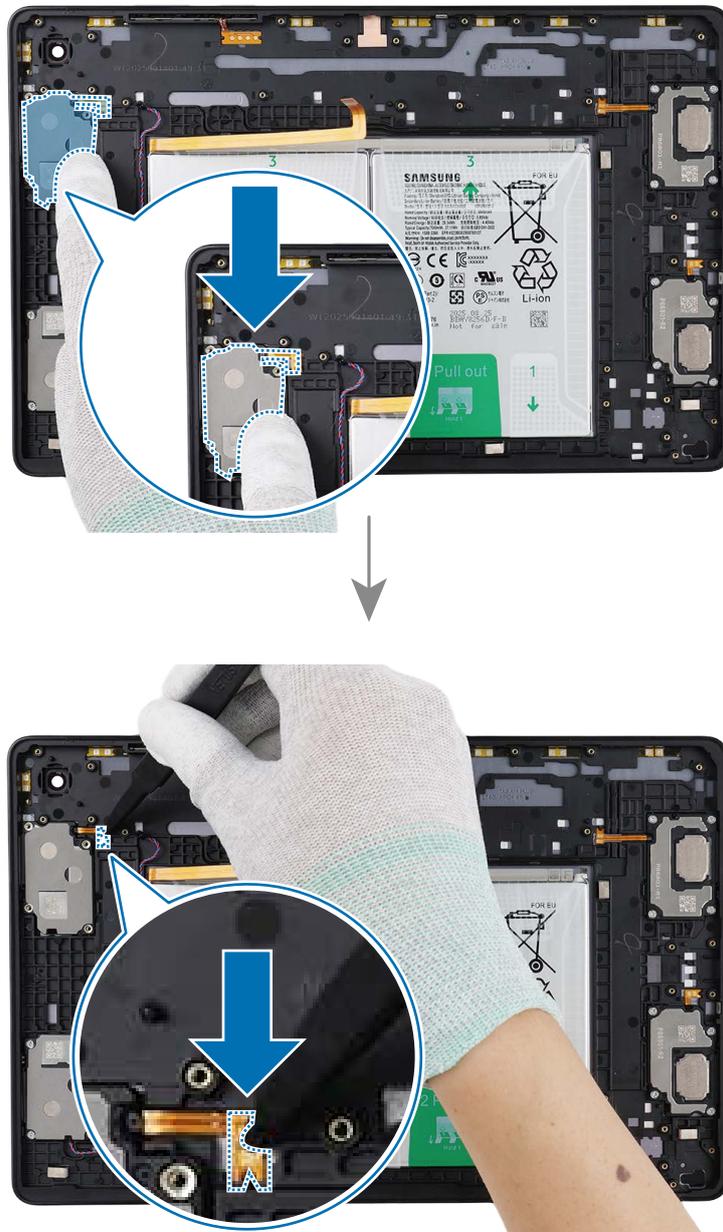


- 17 Place the speaker module to the exact position and assemble it to the device frame.

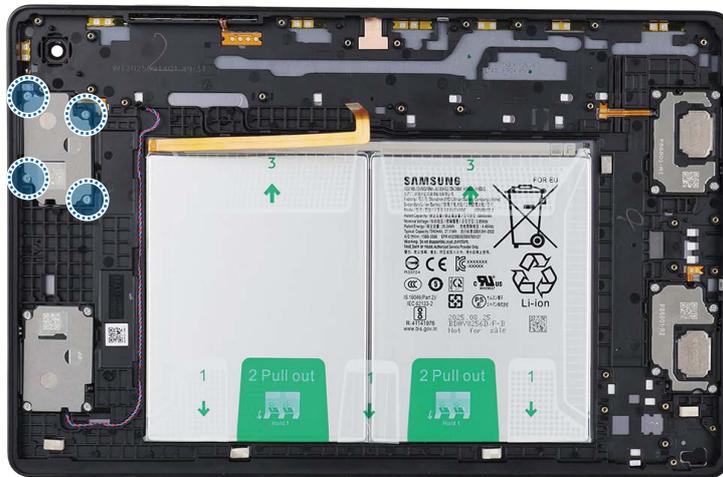
⚠ Be careful not to damage the cables and speaker module.



- 18 Using the tweezers and your fingers, press down softly and evenly on the speaker module so that the speaker module can be completely assembled.

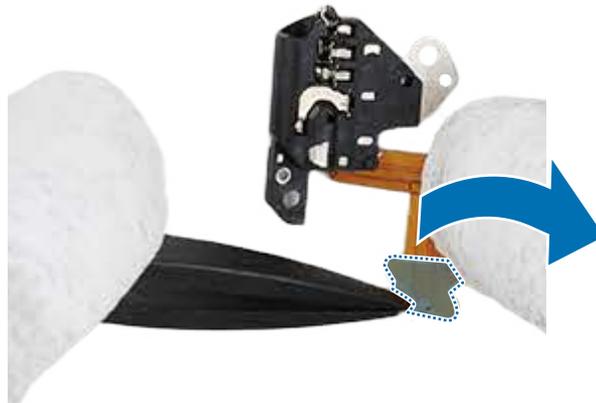


- 19 Check the screw 3631 (4 ea) at the 4 different points on the speaker module. Fasten them using a cross-head screwdriver.

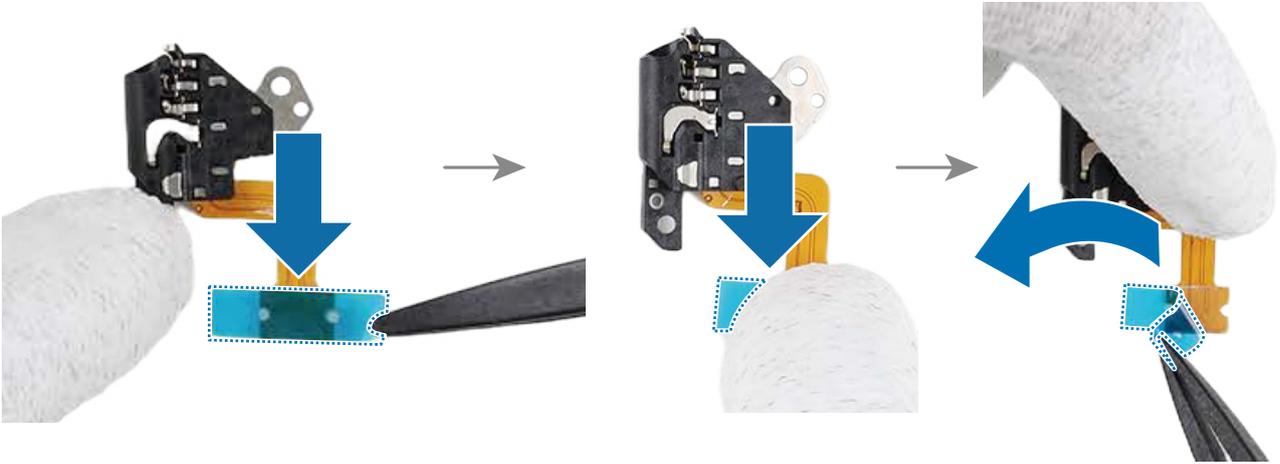


- 20 Remove the remaining adhesive from the FPCB of separated headphone jack.

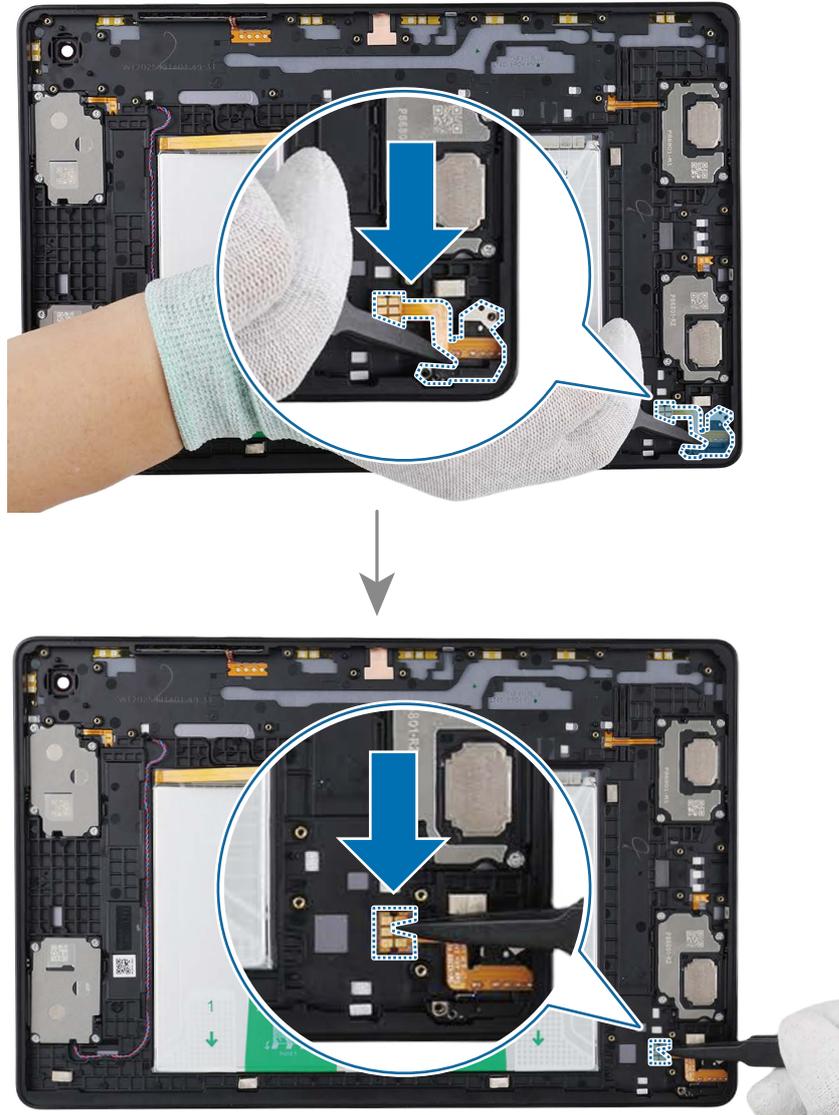
- ⚠ Be careful not to damage the headphone jack module.



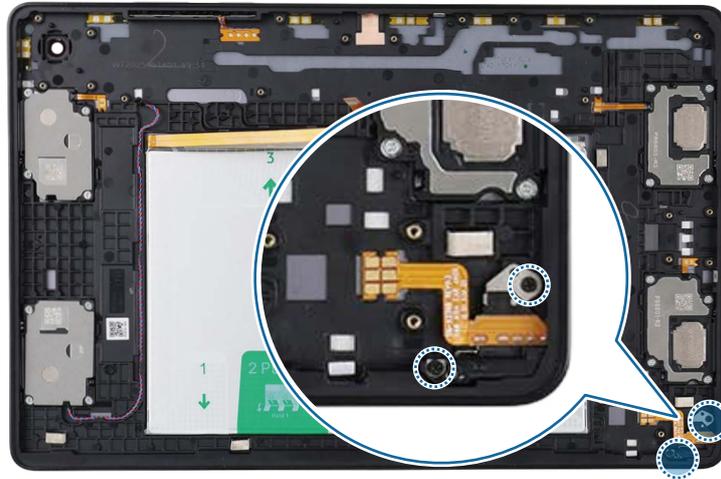
- 21 Remove the release film from the new headphone jack FPCB adhesive tape and attach it to the FPCB of headphone jack module with the tweezers. Press the tape with your fingers so that it can be attached well and remove the release film from the attached tape.



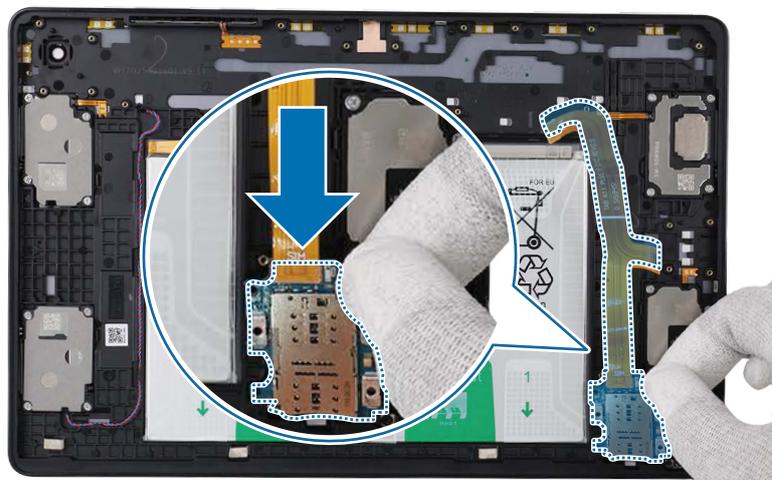
- 22 Using your fingers and the tweezers, place the headphone jack module to the exact position of the device frame and press it with the tweezers softly.



- 23 Check the screw 3630 (2 ea) on the headphone jack module and fasten them using a cross-head screwdriver.

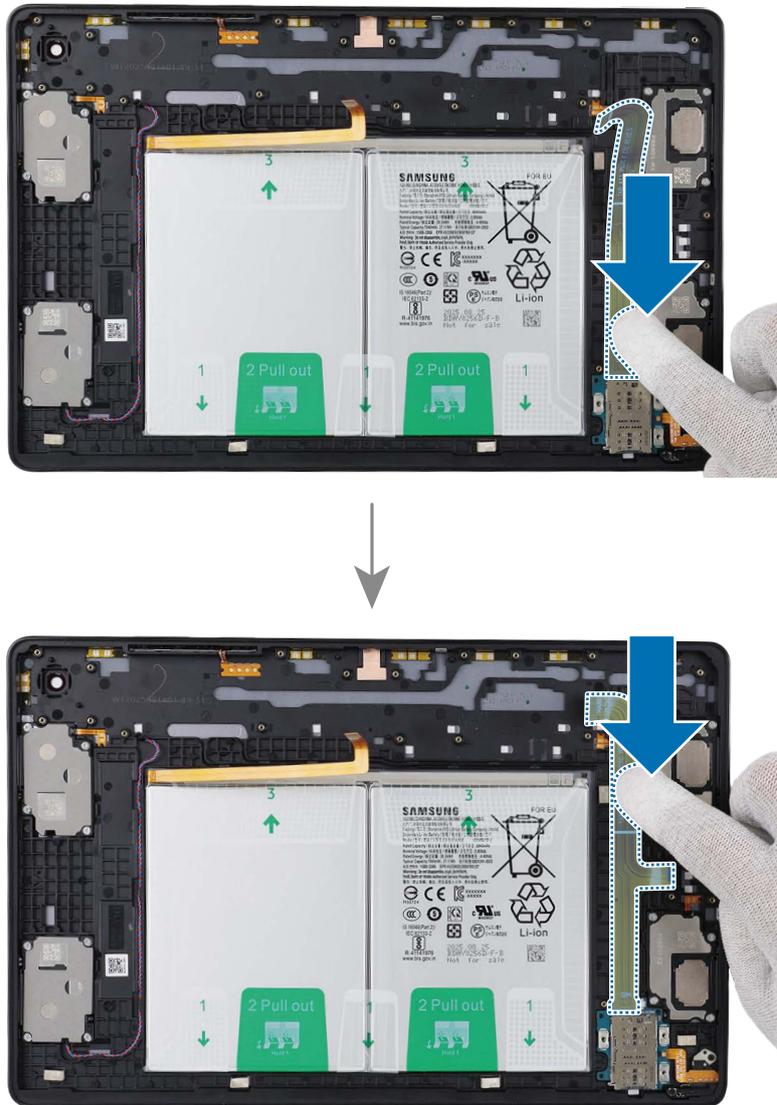


- 24 Insert the SIM card socket into the exact position and press down on it in its position smoothly.

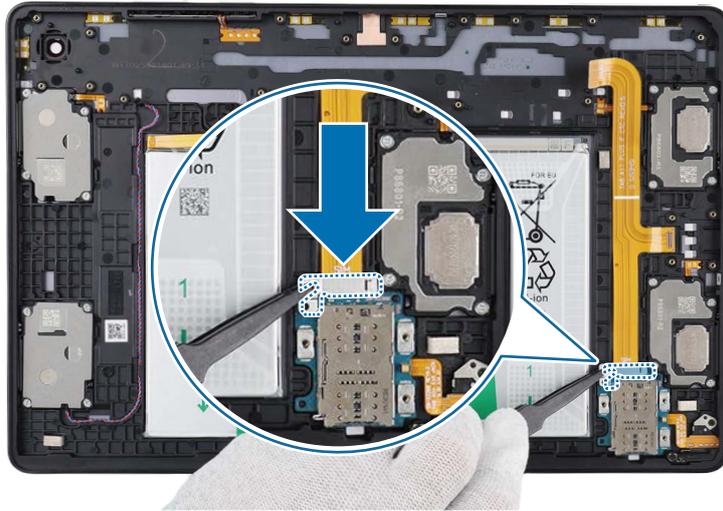


25 Assemble a flex cable to the device frame.

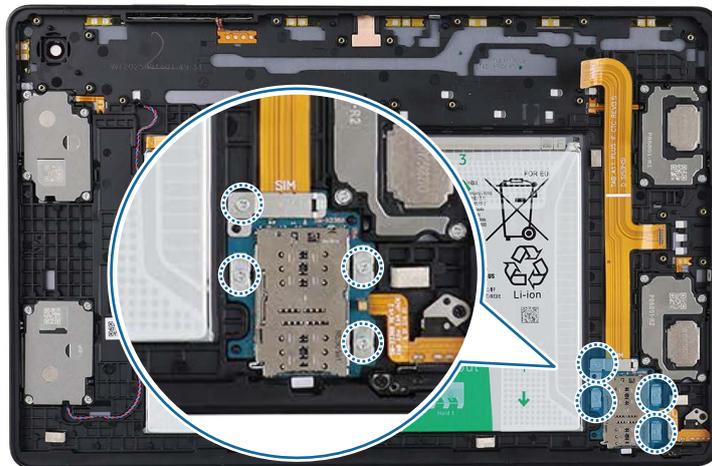
⚠ Be careful not to damage the cable.



26 Using the tweezers, assemble the bottom metal plate of a flex cable.

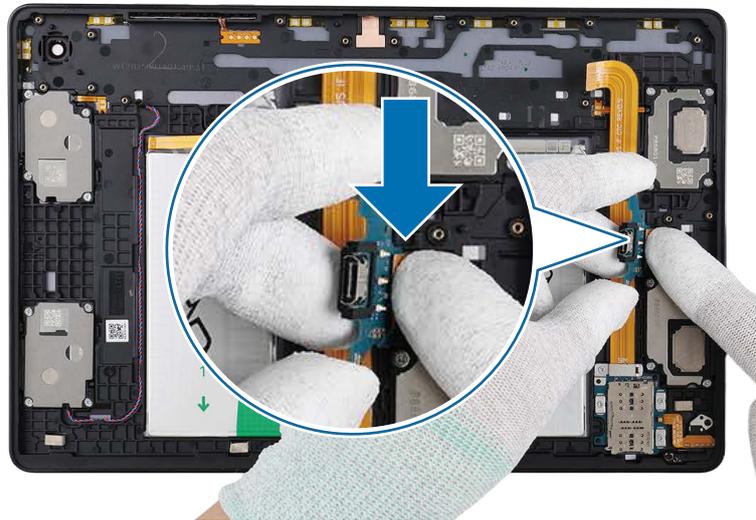


27 Check the screw 3631 (4 ea) around the SIM card socket and fasten them using a cross-head screwdriver.

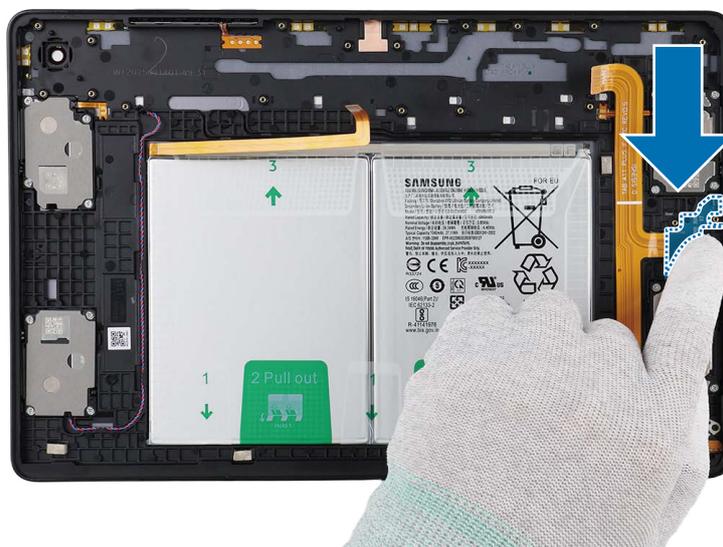


28 Connect a flex cable connector to the back of charging port.

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



29 Insert the charging port module into the exact position and press down on it in its position smoothly.

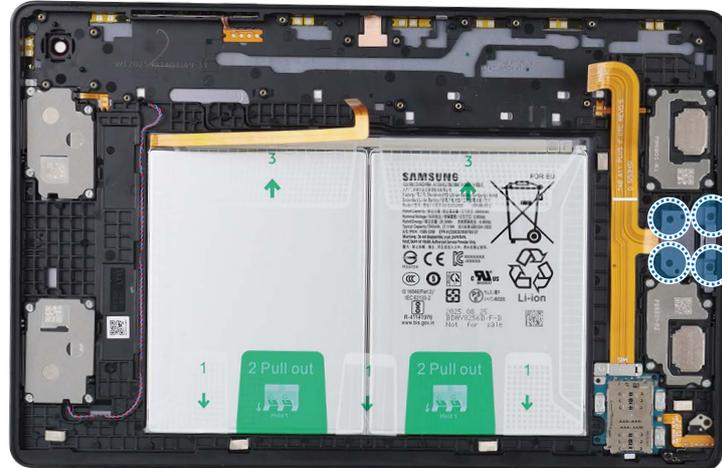


30 Place the charging port bracket to the exact position and press down on it in its position smoothly.

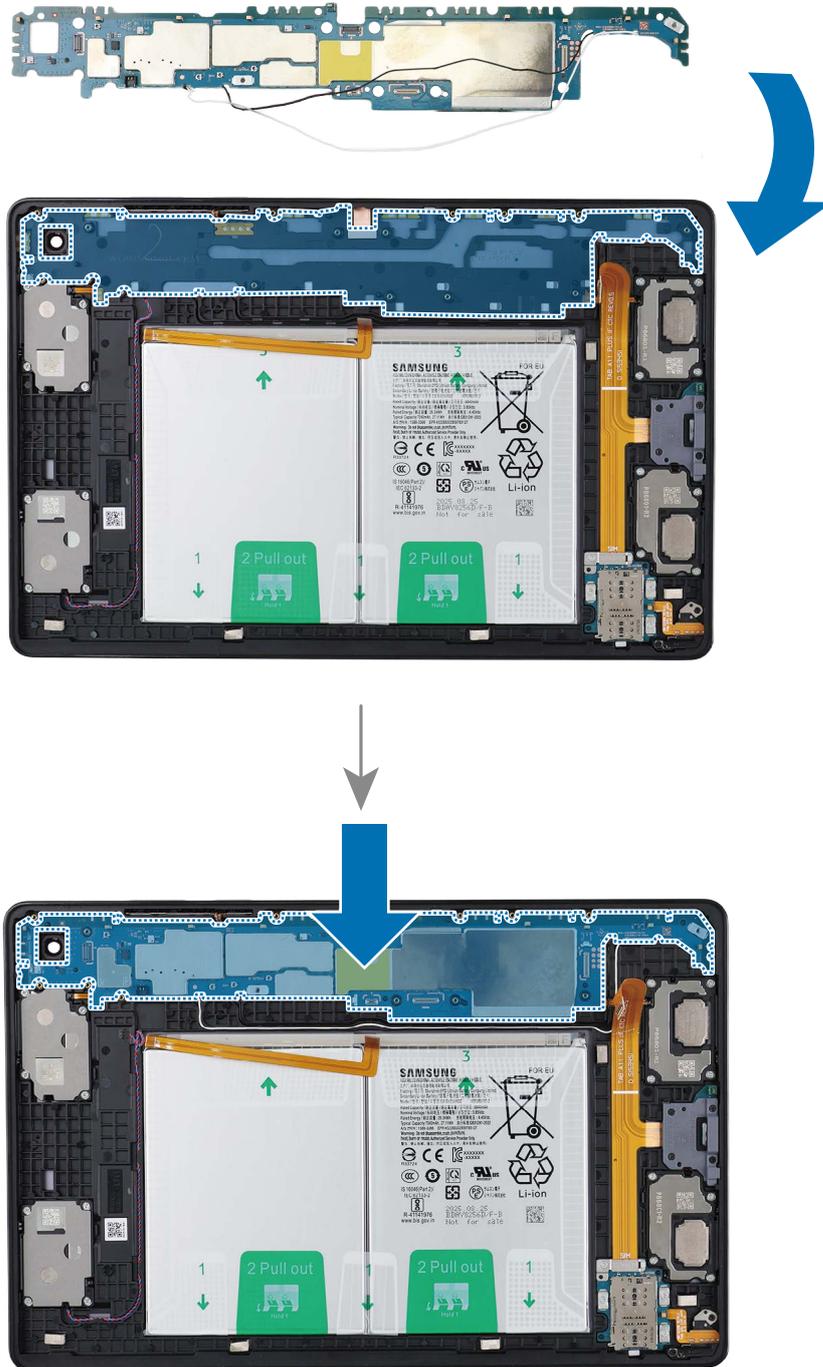
⚠ Be careful not to damage the bracket and the near components.



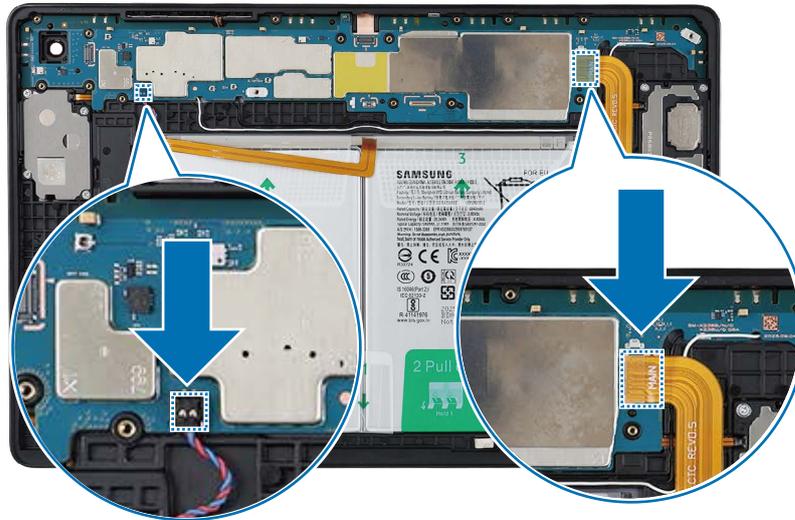
31 Check the screw 3630 (4 ea) at the 4 different points on the charging port bracket and fasten them using a cross-head screwdriver.



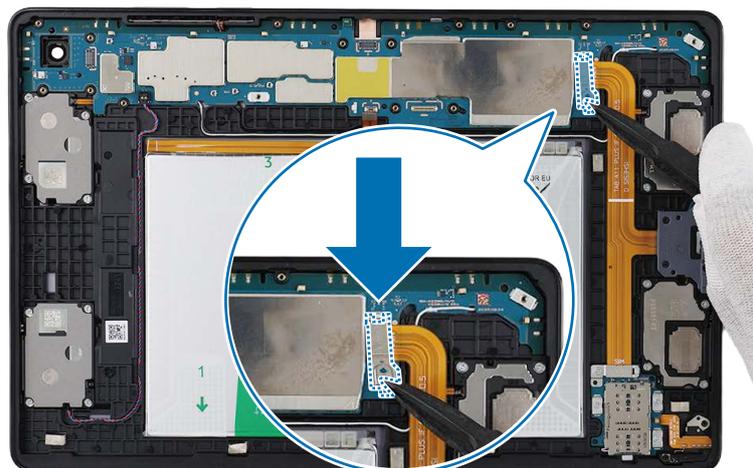
- 32 Check for the reassembly steps of the **Speaker 2** and completely reassemble the main board.



33 Connect the 2 flex cable connectors to the main board.

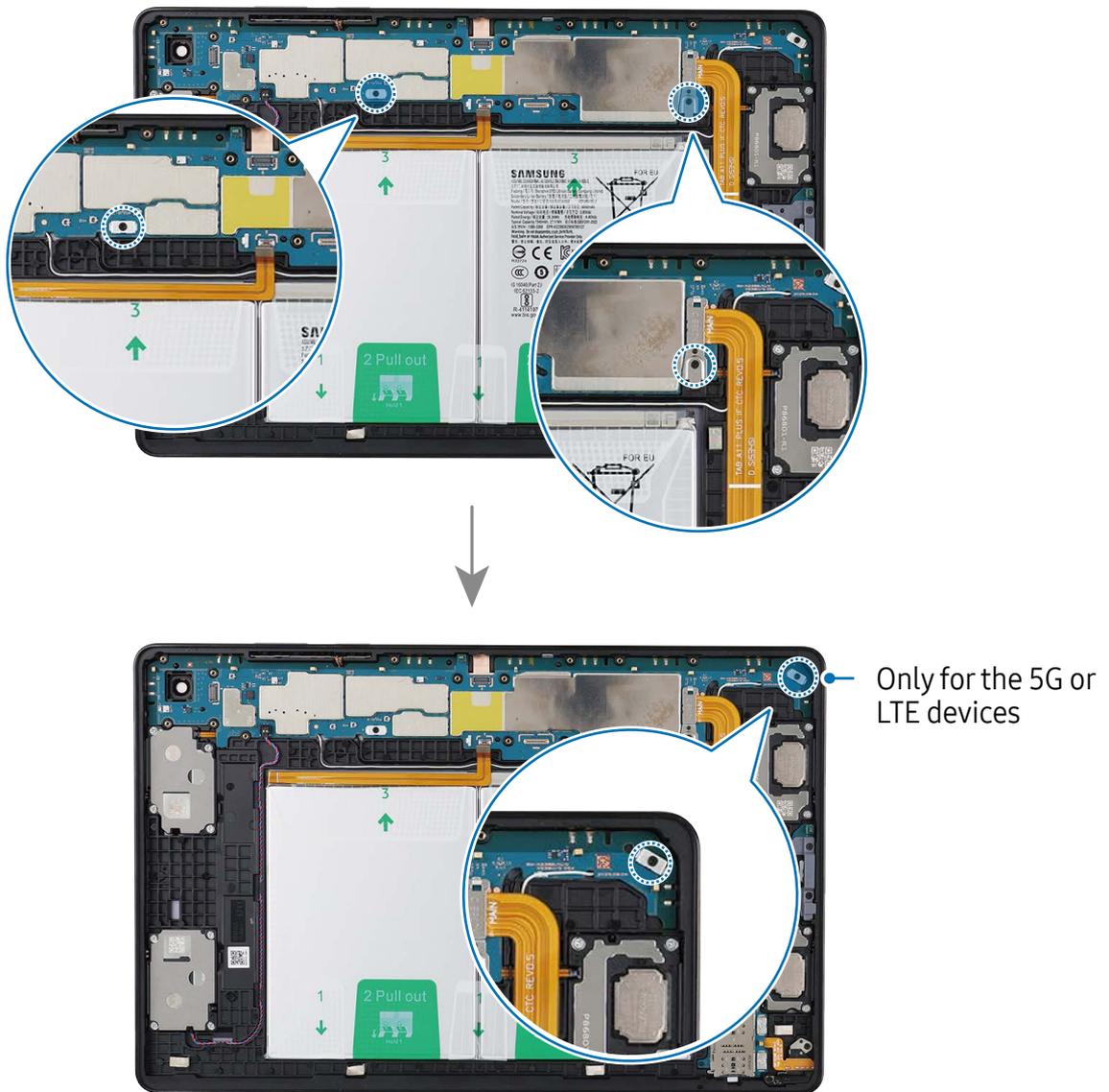


34 Using the tweezers, assemble the top metal plate of a flex cable.

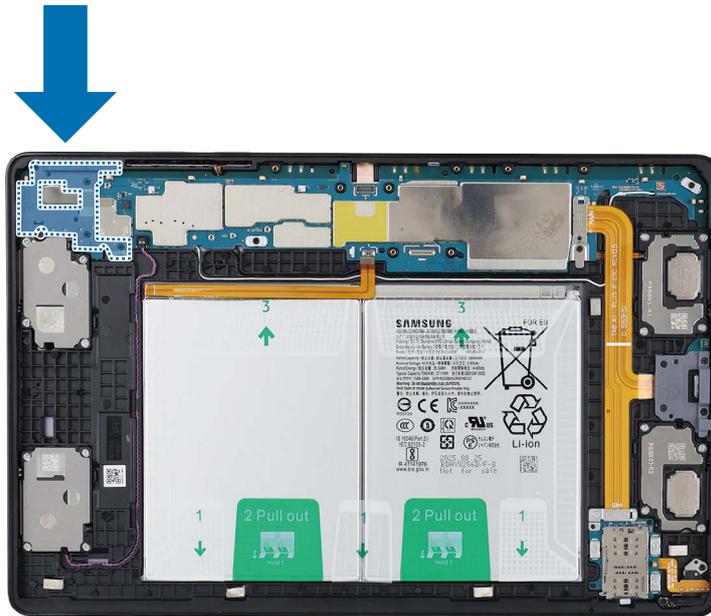


35 Check the screw 3630 (2 ea) at the 2 different points on the main board and fasten them using a cross-head screwdriver. For the 5G or LTE devices, fasten the additional screw 3630 on the main board.

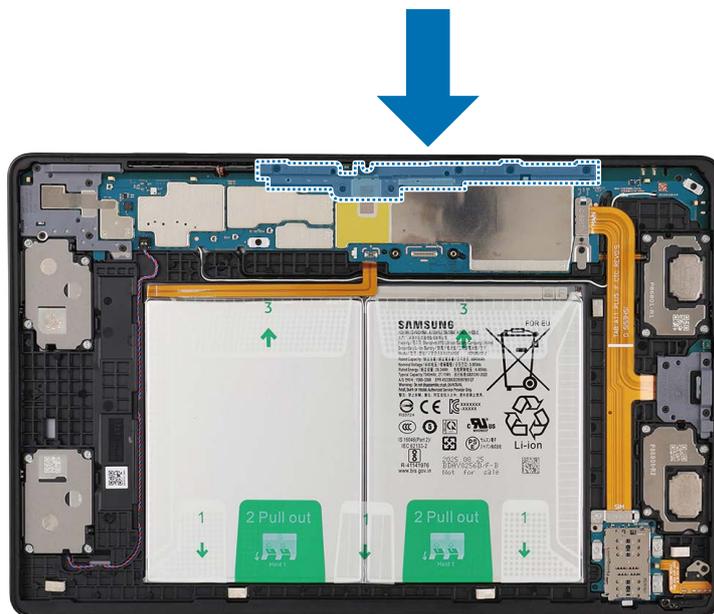
- ☑ • Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.
- The fasteners may vary depending on the country, region, or specification.
- The additional screw is only available for the 5G or LTE devices.



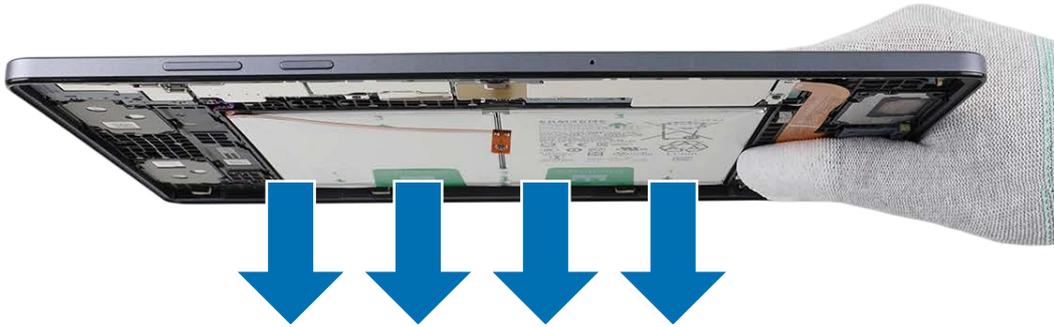
- 36 Check for the reassembly steps of the [Rear Camera](#) and completely reassemble the rear camera and the rear camera bracket.



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



- 38 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 device facing down to remove any remaining screws.



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

Battery

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

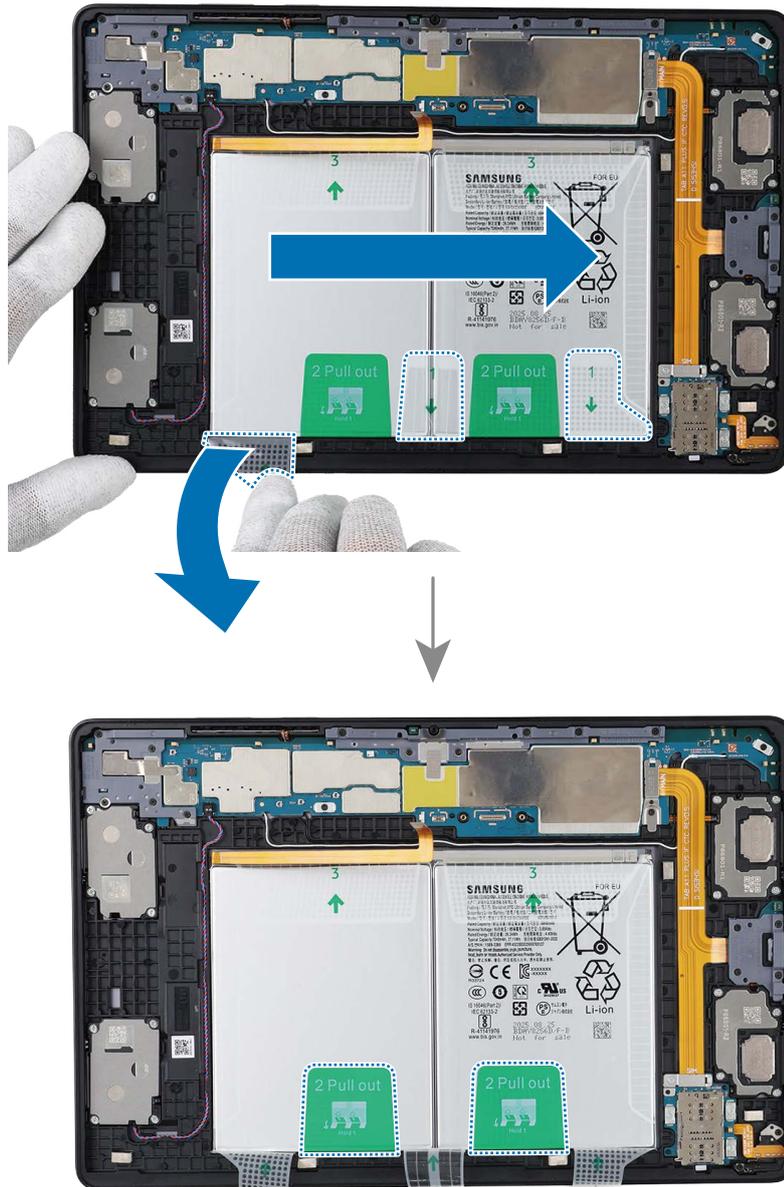
Disassembly

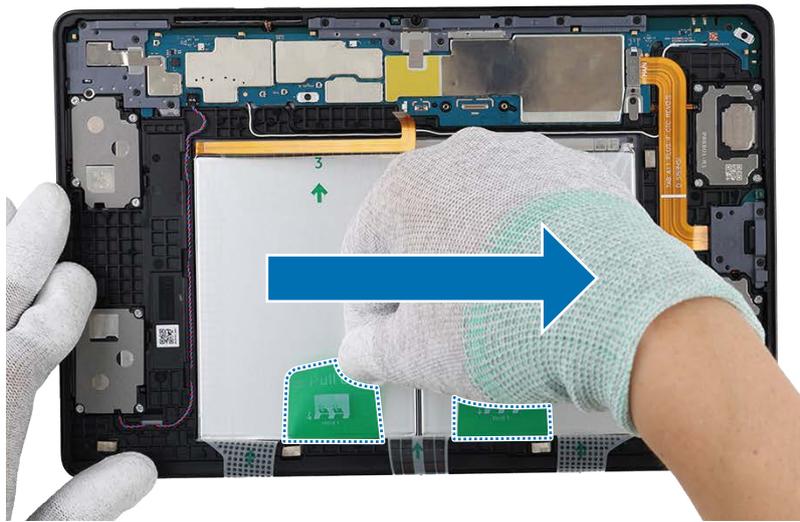
- ✂️ Remove the **Screen** first before you begin.

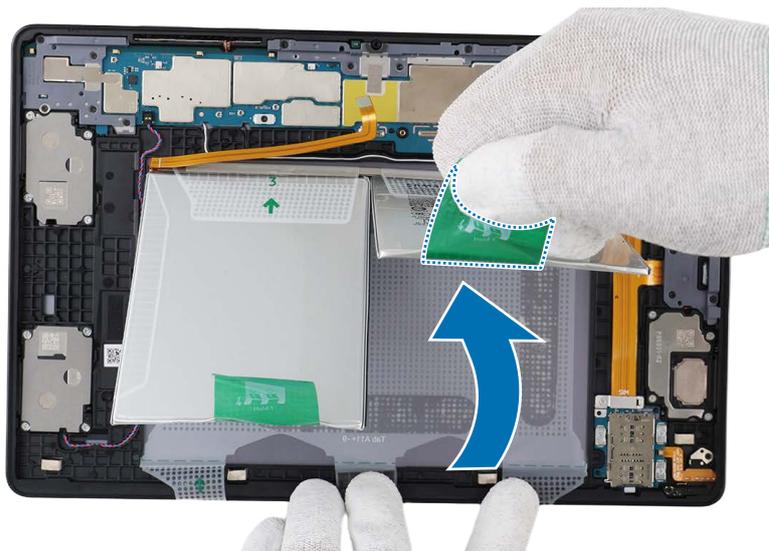
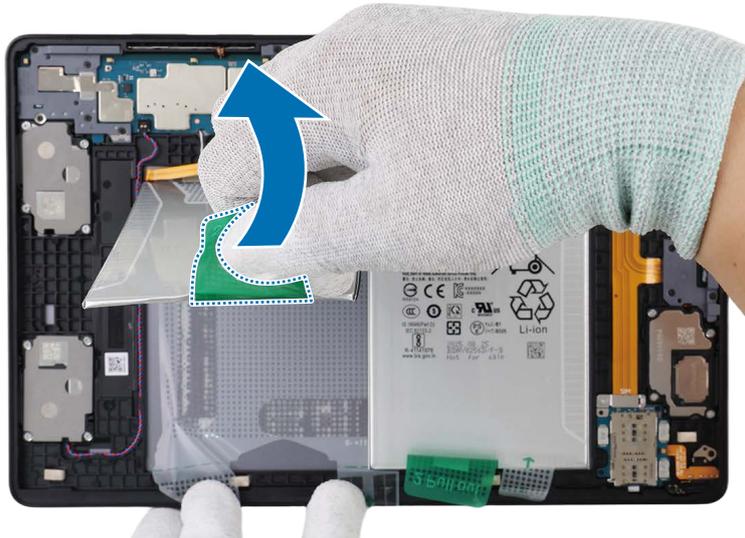
Using your fingers, hold the tapes (marked as 1) attached to the downside of the battery and separate them from the battery in order. Then, separate the tapes (marked as 2) from the battery in order. Grab the separated tapes (marked as 2) with your fingers and pull it up one by one carefully. Slowly lift up the battery from the device and separate the bottom of the battery first. Next, using your fingers, hold the tapes (marked as 3) attached to the upside of the battery and separate them from the battery in order. Grab the separated battery with your fingers and remove it completely from the device.

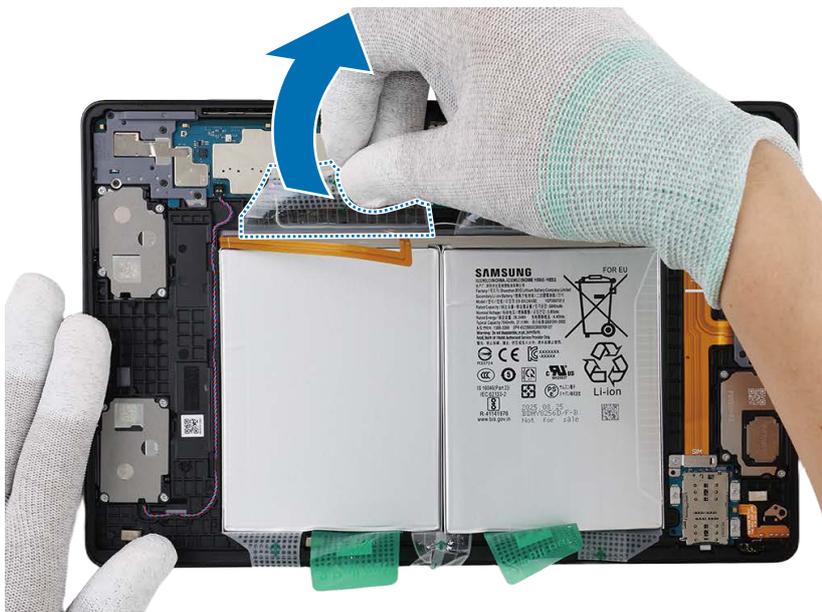
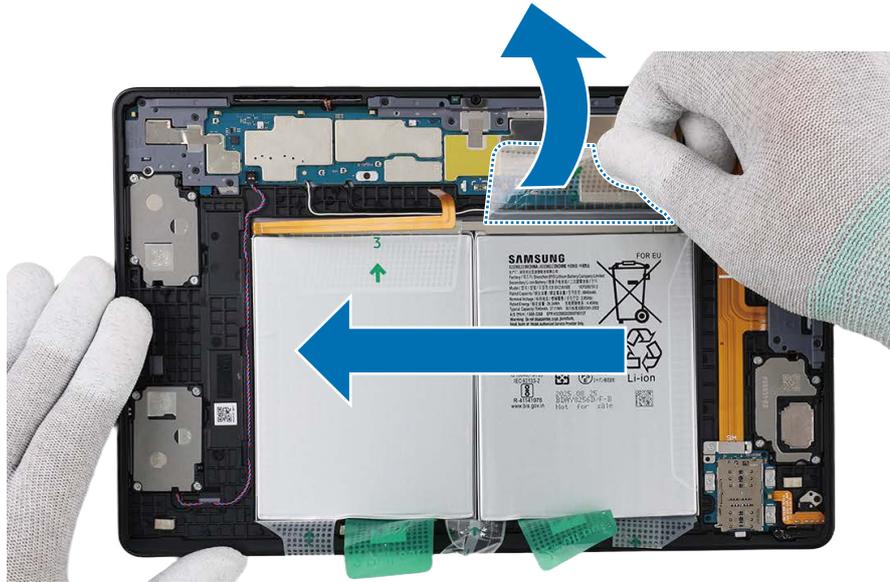
- ⚠️ The separated battery may be damaged. Do not use it again.
- ⚠️ • As the adhesive securing the battery is very strong, remove slowly.
- FPCB cables and connectors have to be positioned outside so as not to interfere when disassembling the battery.
- Be careful not to damage the near components and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



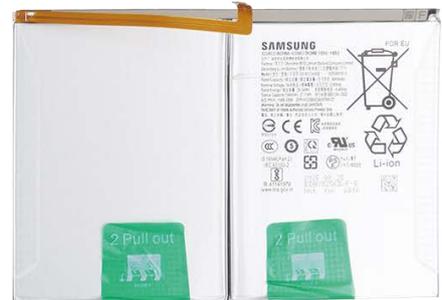
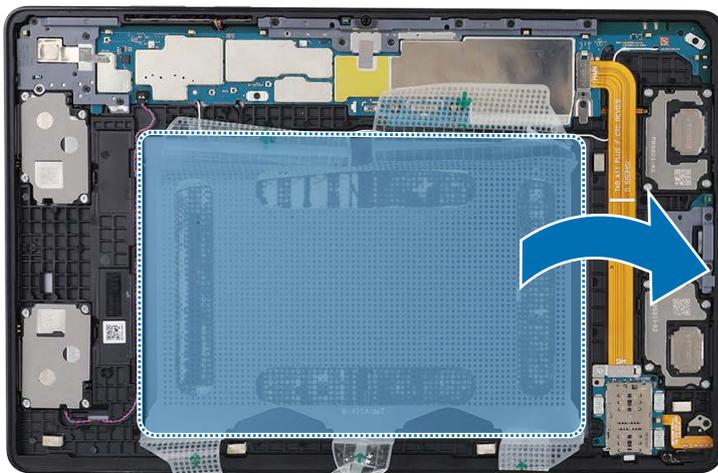
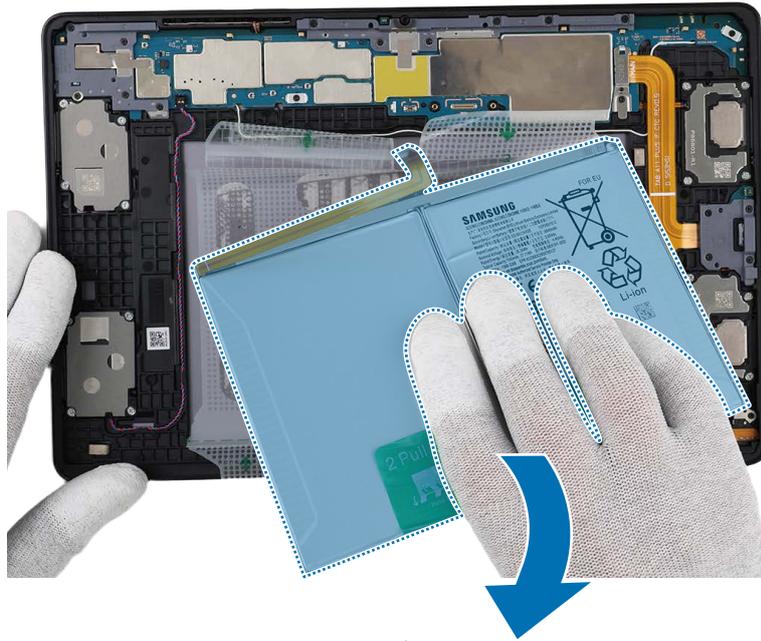








Disassembly and Assembly



Reassembly

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

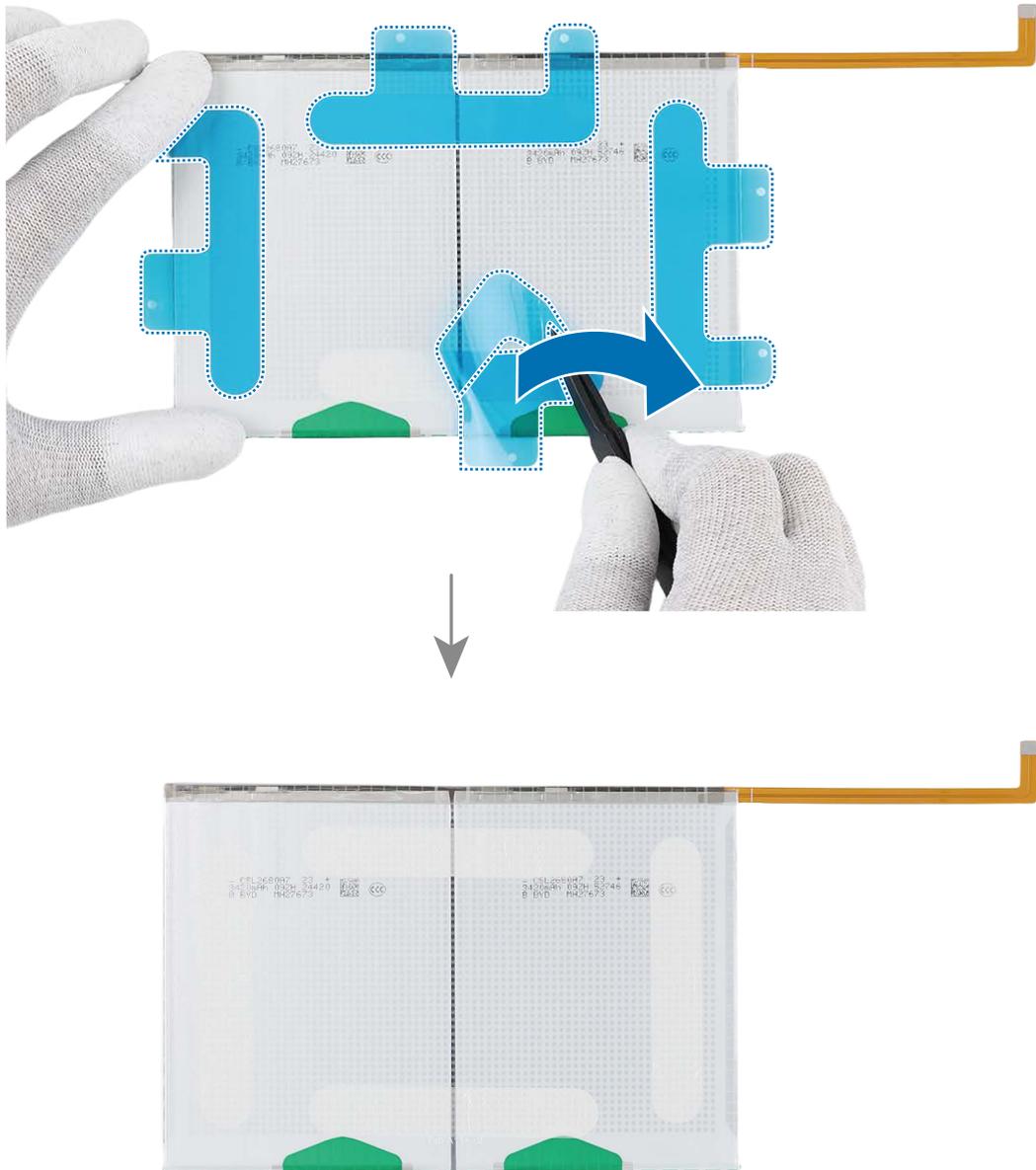
1 Using the tweezers and your fingers, remove the all remaining adhesive tapes on the device frame.

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



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

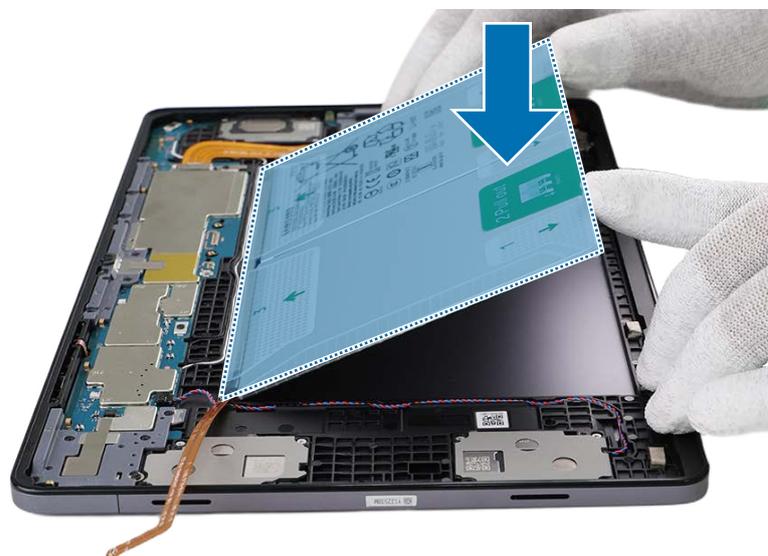
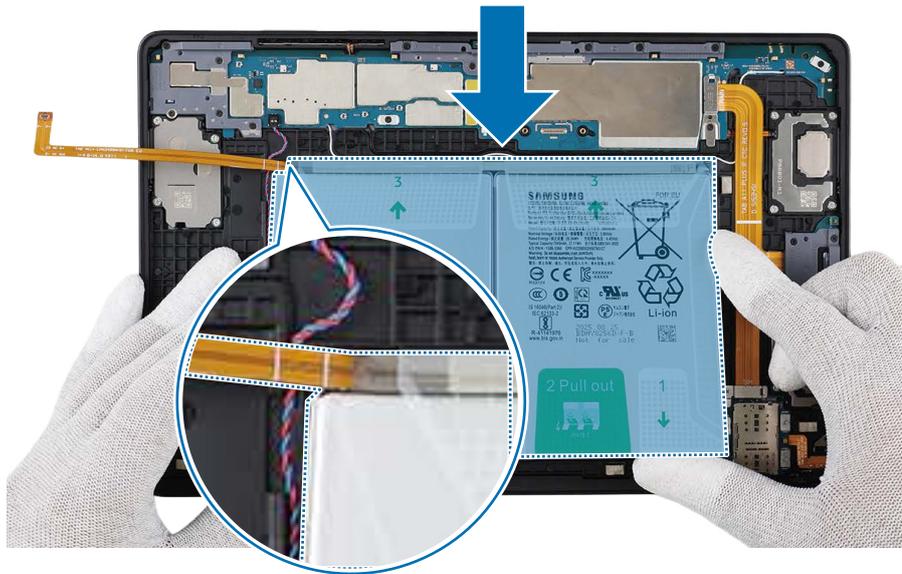
 Be careful not to damage the battery.



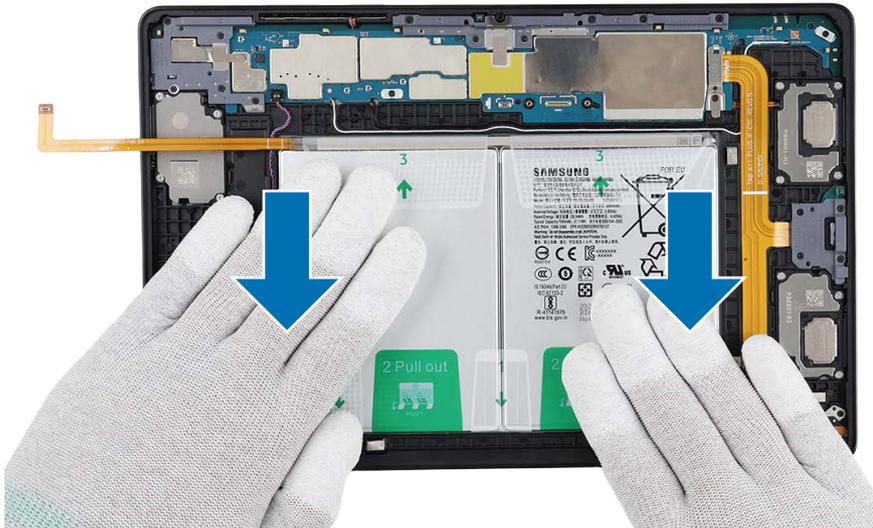
3 With the battery connector on the top left, carefully place the battery based on the upper side of the battery. Assemble the battery to the exact position of the device frame using your fingers.

⚠ Be careful not to damage the battery.

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

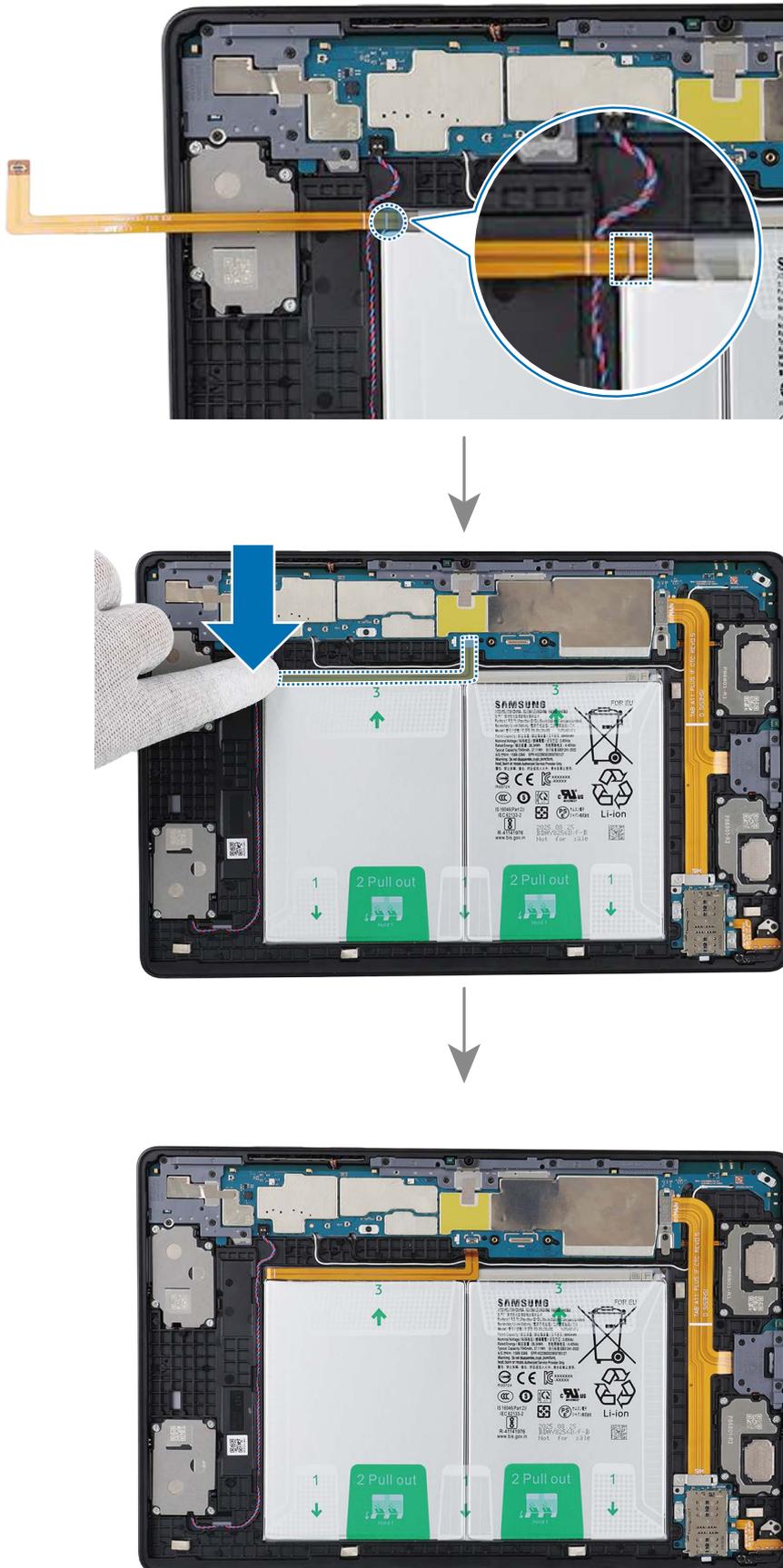


- 4 Press the battery with your fingers softly so that the battery can be attached well.



5 Fold the battery FPCB cable completely based on the first white line.

⚠ Be careful not to damage the cable.



6 If you can rent a toolkit for self-repair service, check for the steps of the [Battery Press](#). You can further press the fully assembled battery using the appropriate tool.



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



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

After reassembling

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

Press



- The Press step is a process for responding to Repair Regulations implemented in some regions and may not be an essential process in other areas.
- 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 toolkits may vary depending on the country and is currently available only in limited countries.
- Some images of the press fixture may show a different Galaxy model, but the procedure is the same.

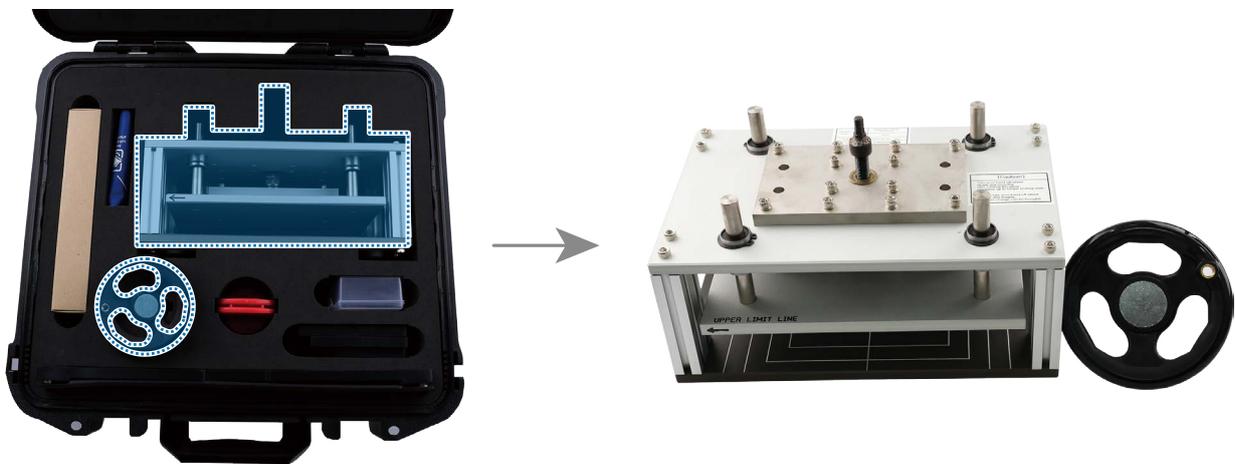
Before pressing:

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

Screen Press

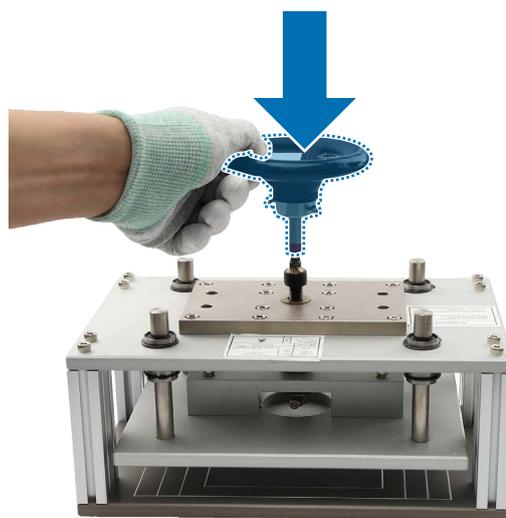
1 Now you can press the fully assembled screen using the press fixture. Remove the press fixture body and its handle from the rental tool kit packaging.

- ⚠ Keep your hands out of press fixture to avoid mechanical pinching and injury.
- 📄
 - This is only available to use by the rental of tool kit that contains a complete set of the tools for self repair service.
 - Availability of rental service may vary depending on the country and is currently available only in limited countries.
 - A rented tool kit packaging may have different packaging than shown.



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

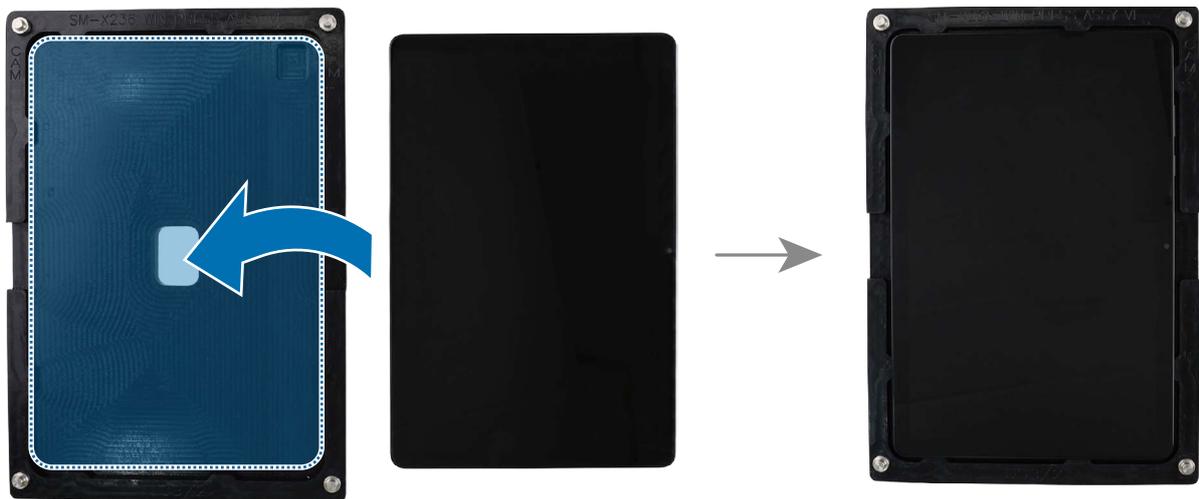
- ⚠ Keep your hands out of press fixture to avoid mechanical pinching and injury.



- 3 Remove the bottom press tray and top press tray from the rental tool kit packaging.



- 4 Leave the inside of the bottom press tray visible and place the device into the tray facing up.

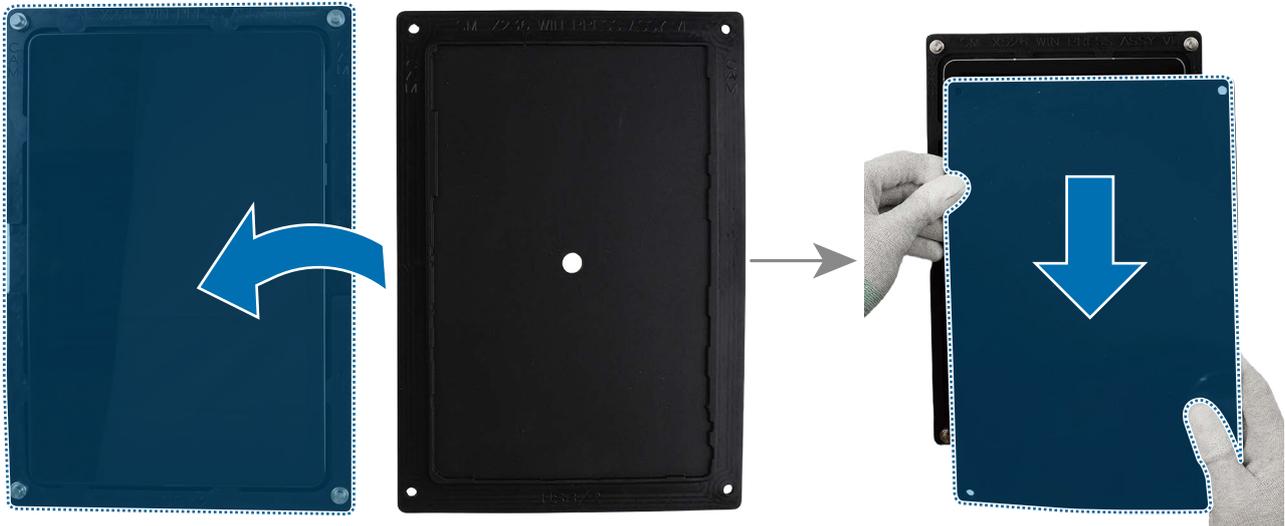


- 5 Using your fingers, press down the all edges carefully and make sure that the device is completely secured to the bottom tray.

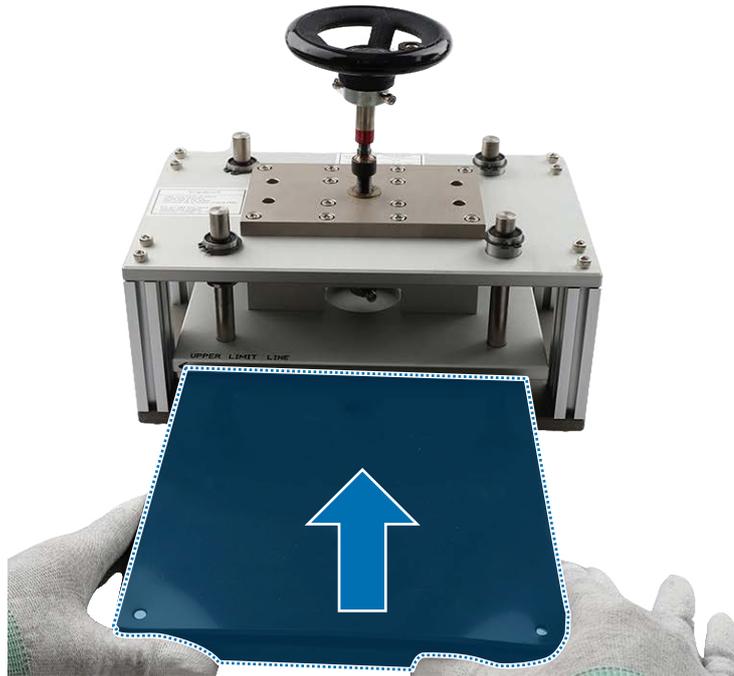


6 Carefully place the top press tray over the bottom press tray and gently press on all corners of the tray to secure it.

⚠ Be careful not to damage the screen and the device.

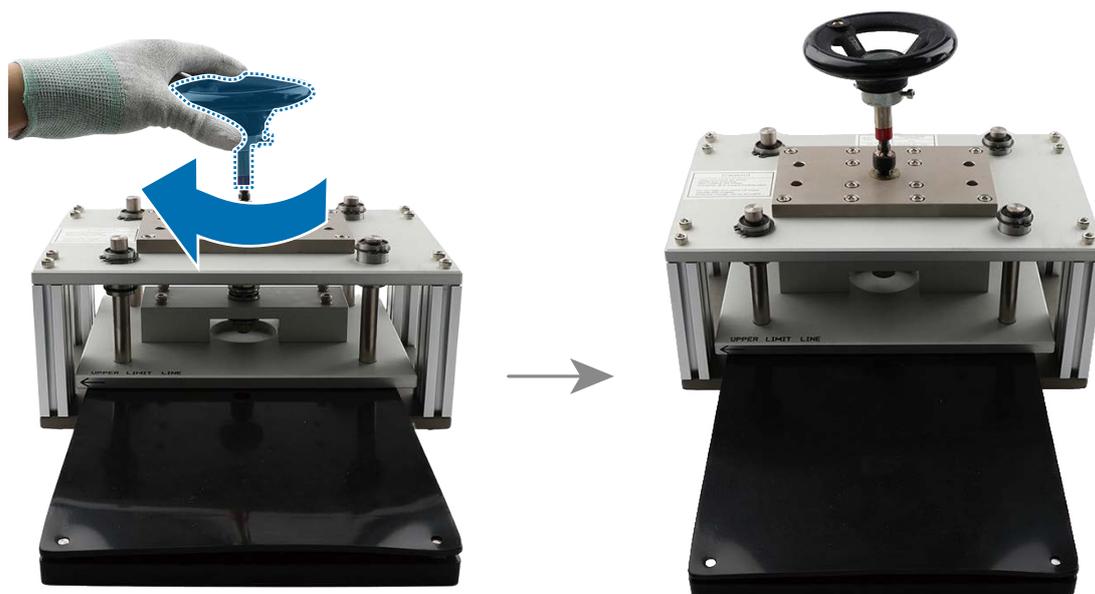


- 7 Position the top half of the press tray with the device lengthwise in the centre of the press fixture.

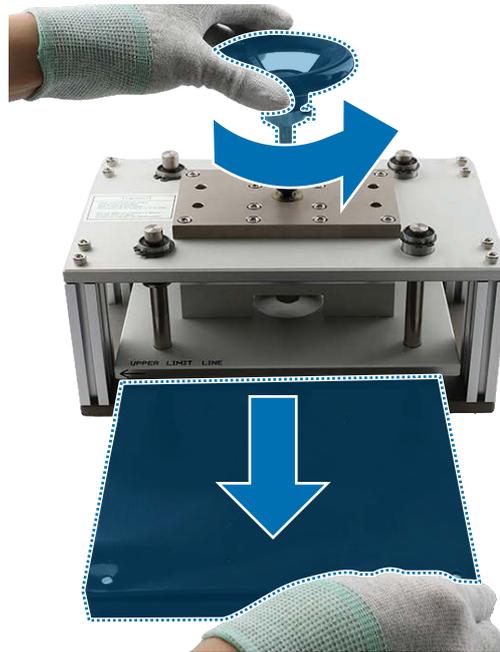


- 8 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 30 seconds.

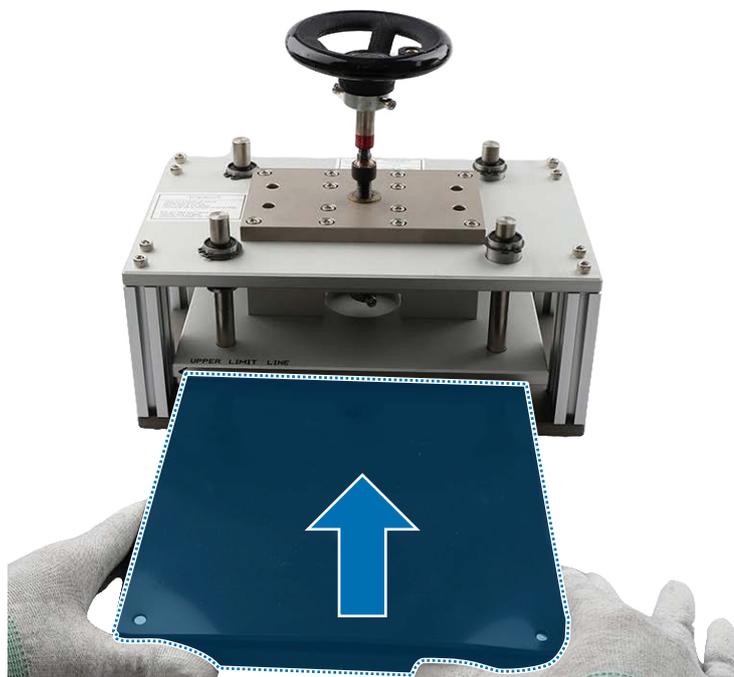
-  Keep your hands out of the press fixture to avoid mechanical pinching and injury.
-  When you reach the required maximum force (1 N), a sound is made from the handle if you turn the handle.



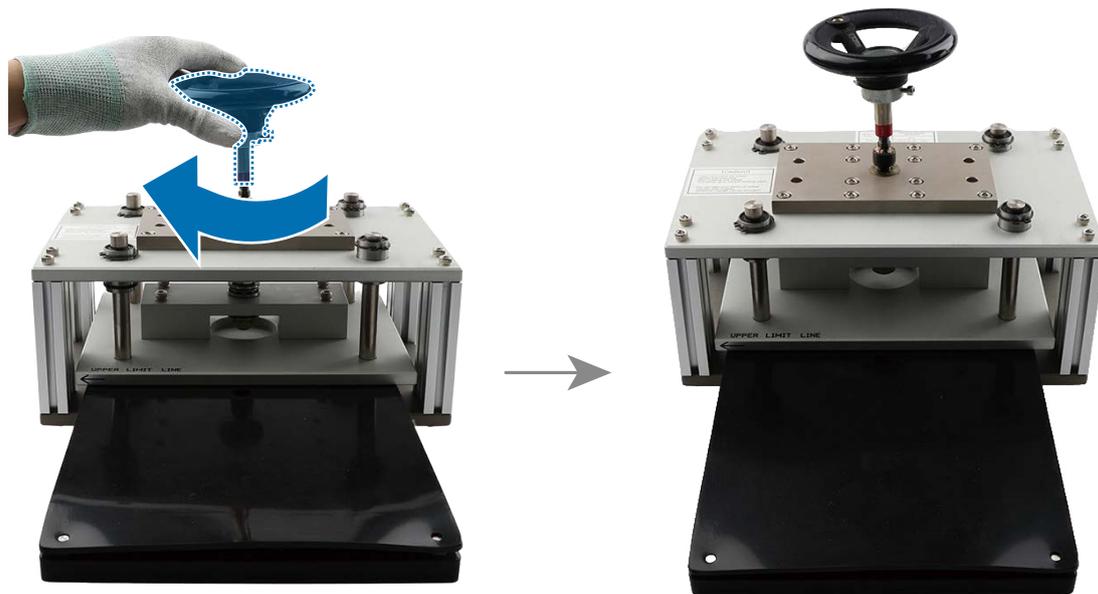
- 9 When the press is completed after 30 seconds, rotate the torque limit handle to the anticlockwise and remove the tray from the press fixture.



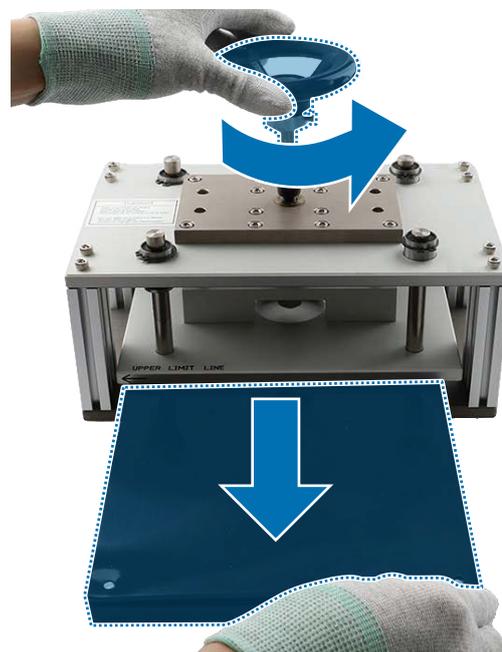
- 10 Position the bottom half of the press tray with the device lengthwise in the centre of the press fixture.



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



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



13 Remove the device carefully from the tray.

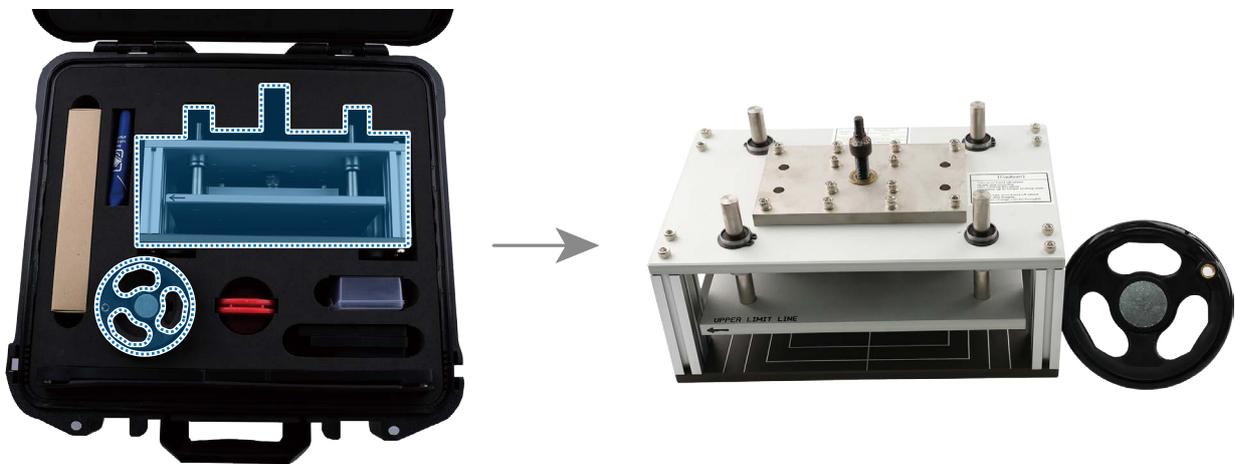


Battery Press

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

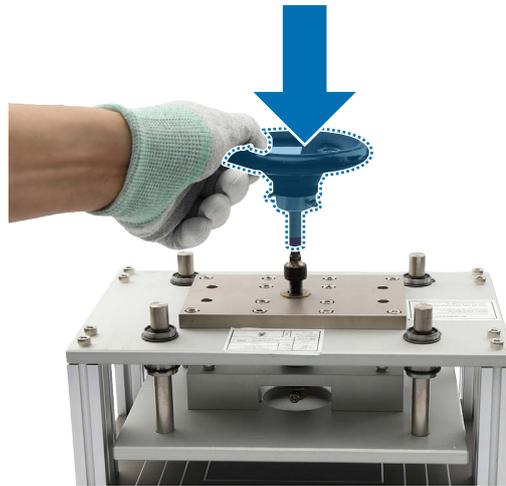
 Keep your hands out of the press fixture to avoid mechanical pinching and injury.

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



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

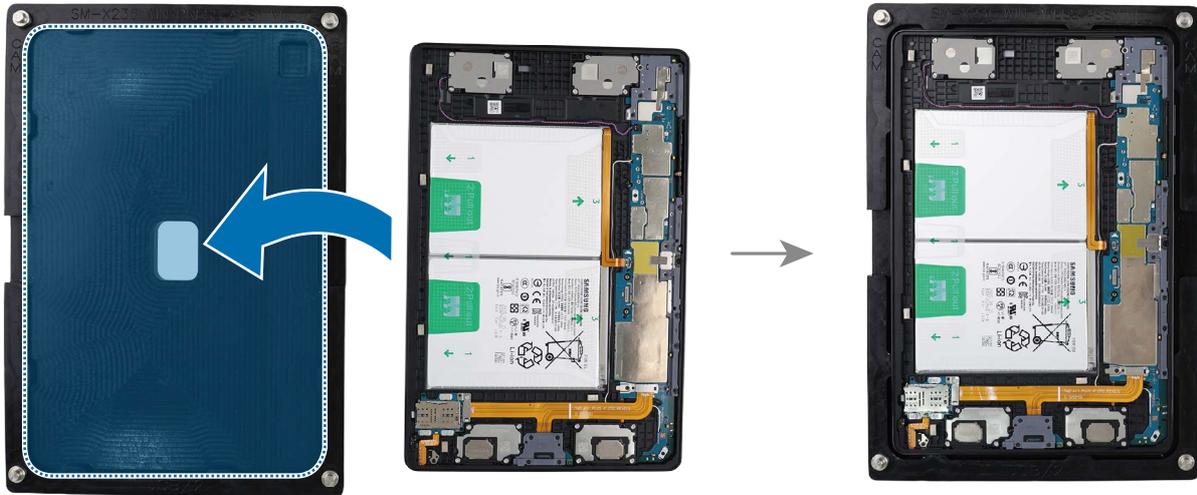
 Keep your hands out of the press fixture to avoid mechanical pinching and injury.



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



- 4 Leave the inside of the bottom press tray visible and carefully place the device into the tray facing up.



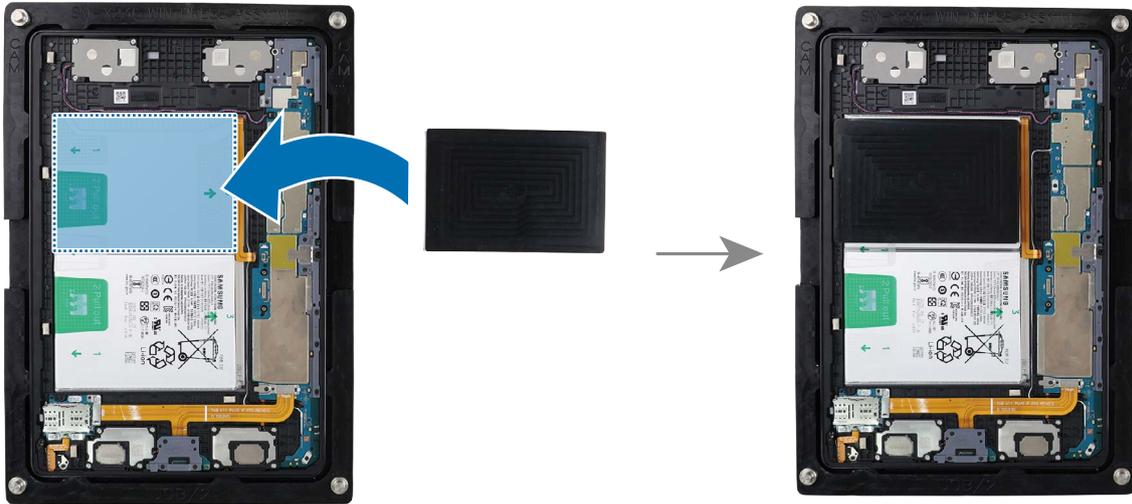
- 5 Using your fingers, press down the all edges carefully and make sure that the device is completely secured to the bottom tray.

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



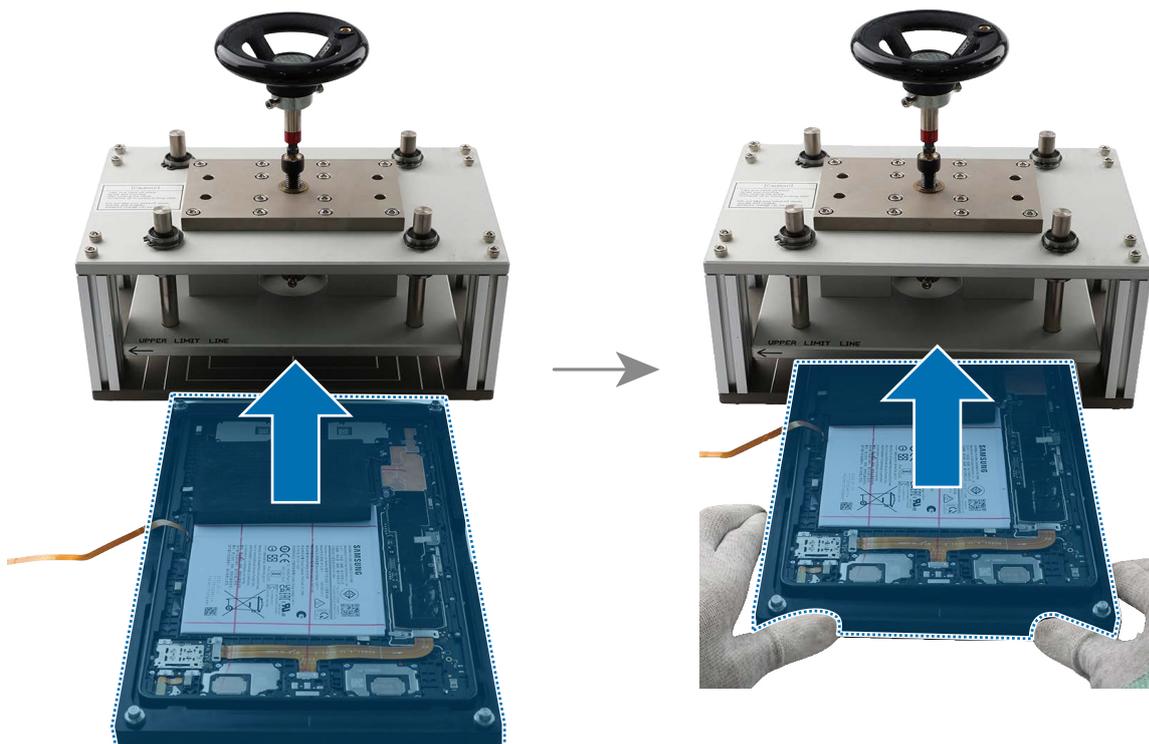
6 Choose a top battery-sized pad from the provided battery rubber pads and place it carefully on the top battery.

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



7 Position the bottom tray with the device lengthwise in the centre of the press fixture so that the top battery is fully placed into the press fixture.

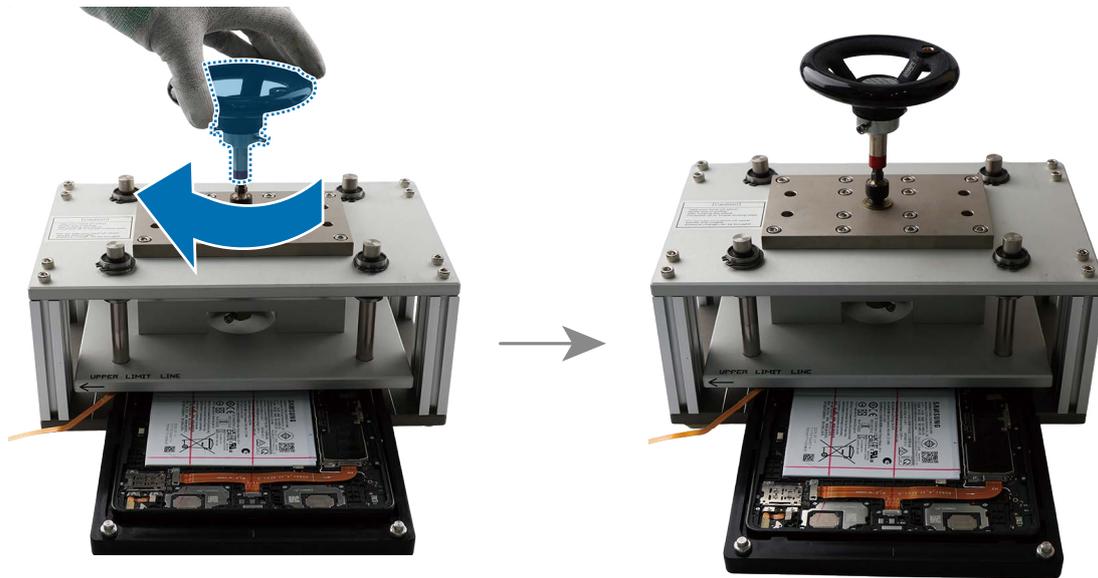
- ⚠ • FPCB cables and connectors have to be positioned outside so as not to interfere when pressing the battery.
- Be careful not to damage the cables and the near components.
- Be careful not to move the battery pad out of its position.



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

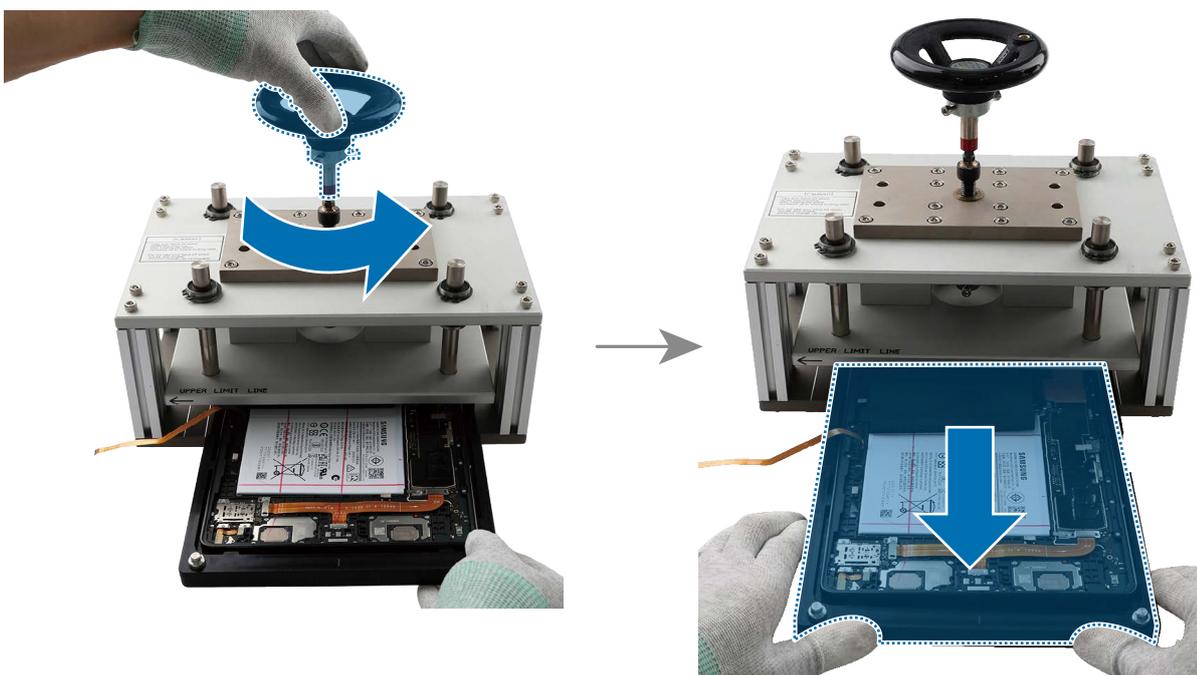
 Keep your hands out of the press fixture to avoid mechanical pinching and injury.

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



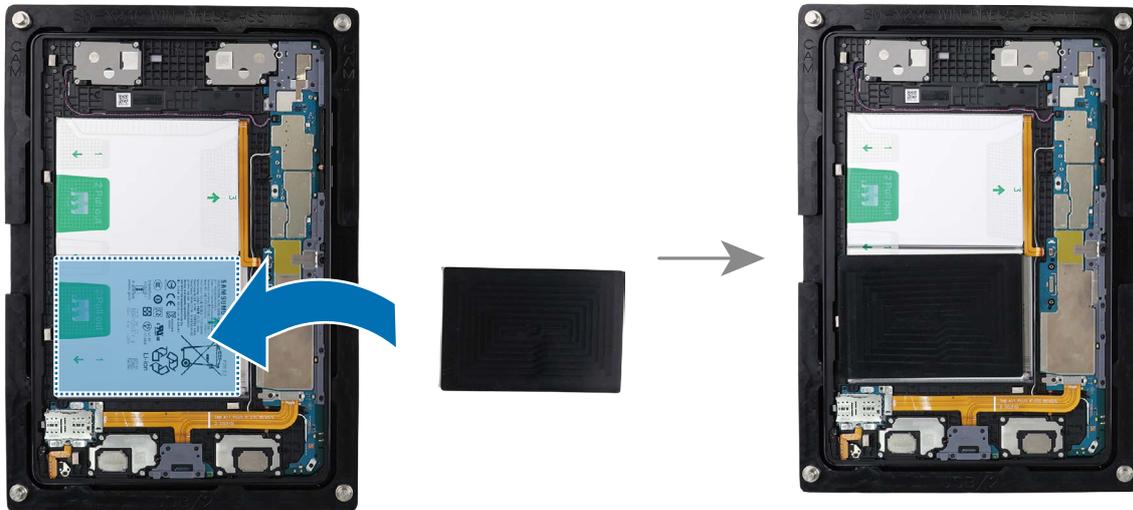
9 When the press is completed after 5 seconds, rotate the torque limit handle to the anticlockwise and remove the tray from the press fixture.

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



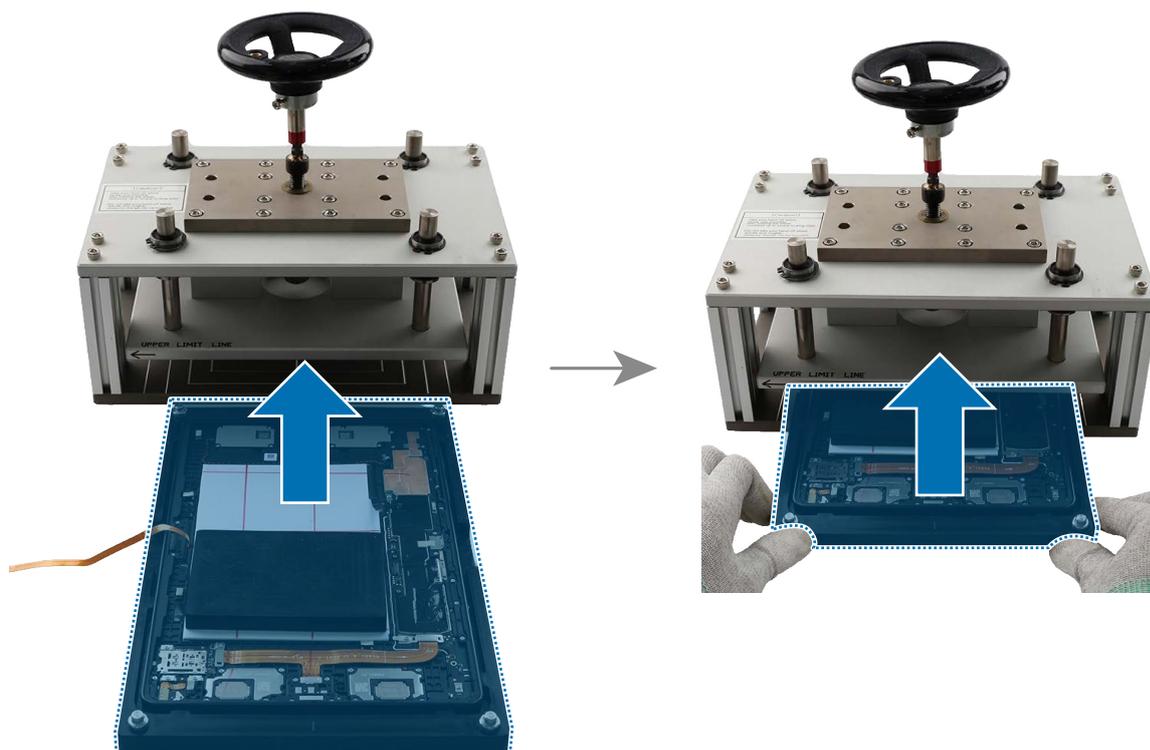
10 Place the battery rubber pad carefully on the bottom battery.

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



11 Position the bottom tray with the device lengthwise in the centre of the press fixture so that the bottom battery is fully placed into the press fixture.

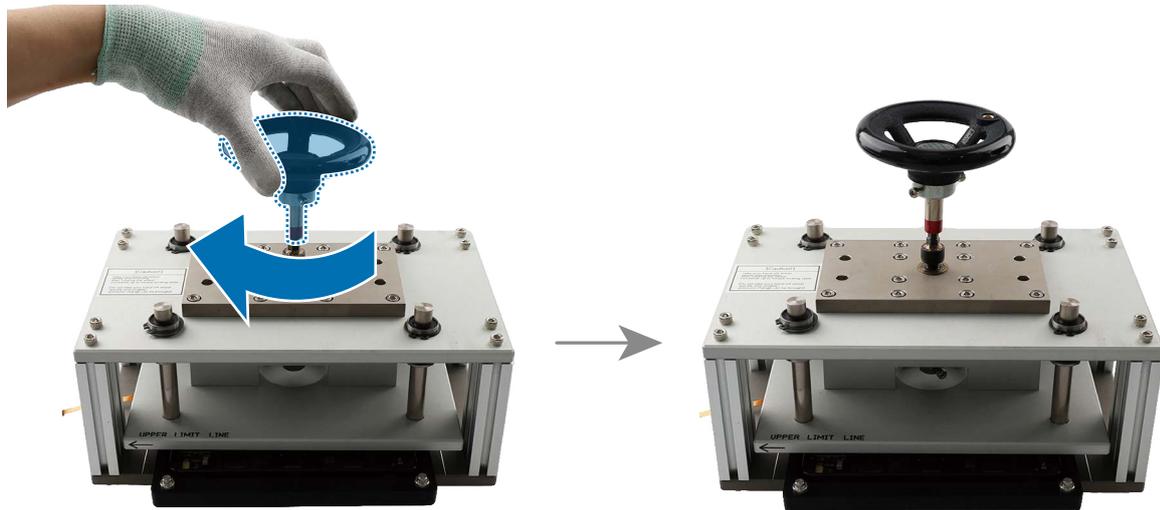
- ⚠ • FPCB cables and connectors have to be positioned outside so as not to interfere when pressing the battery.
- Be careful not to damage the cables and the near components.
- Be careful not to move the battery pad out of its position.



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

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

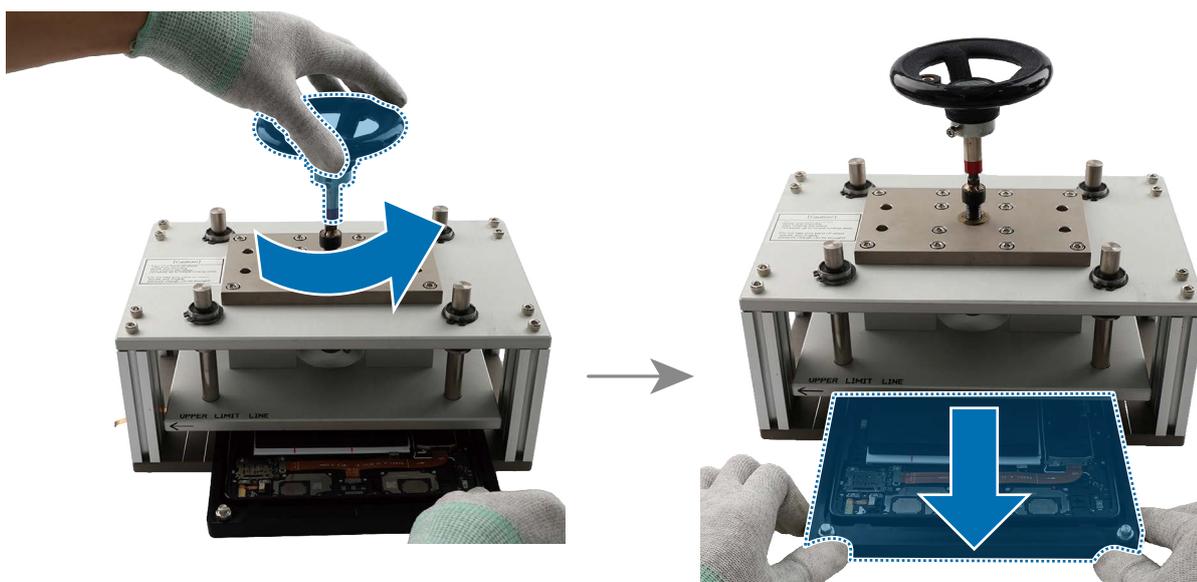
 When you reach the required maximum force (1 N), a sound is made from the handle if you turn the handle.



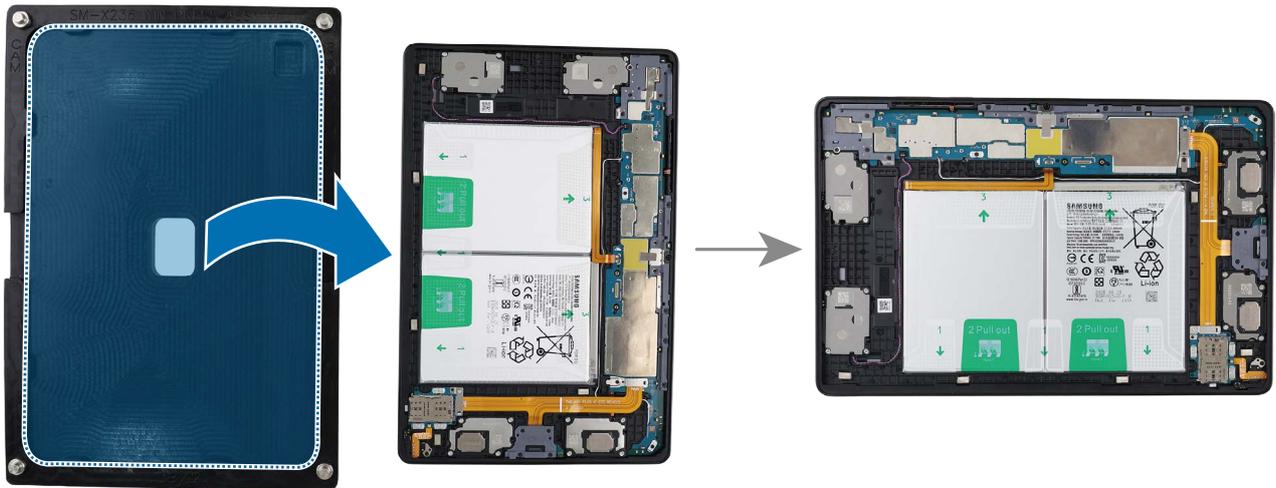
13 When the press is completed after 5 seconds, rotate the torque limit handle to the anticlockwise and remove the tray from the press fixture.

 • FPCB cables and connectors have to be positioned outside so as not to interfere when removing the tray.

• Be careful not to damage the cables and the near components.

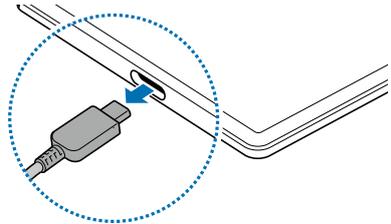


14 Remove the device carefully from the bottom tray.



Directive 2012/19/EU Annex VII Components

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

Component	Samsung Part Name	Removal Instructions
Printed circuit board if the surface is greater than 10 square centimetres	Main Board (PBA)	Check for the disassembly steps of the Speaker 2 and separate the main board.
Liquid crystal display of a surface greater than 100 square centimetres and all those back-lighted with gas discharge lamps	Screen	Check for the disassembly steps of the Screen and separate the screen.
Battery	Battery	Check for the disassembly steps of the Battery and separate the battery.
External electric cable	USB Cable	Disconnect the USB cable. 

SAMSUNG

This guide is a property of Samsung Electronics Co., Ltd.

Any unauthorised use of guide can be punished under applicable international and/or domestic law.

© Samsung Electronics Co., Ltd.

