

SAMSUNG

REPAIR GUIDE

SM-X130
SM-X135F

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www.samsung.com

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Usage Notices

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

Precautions for Repair

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

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

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

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

ESD (Electrostatic Discharge) Precautions

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

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

Instructional Icons



Warning: situations that could cause injury to yourself or others



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



Notice: notes, usage tips, or additional information

Software Update

Updating Software through FOTA

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

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

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

Software Update Failure

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

Updating Software through Smart Switch

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

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

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

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

Recovering from a Software Update Failure

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

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

Recovering on Another Computer

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

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

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

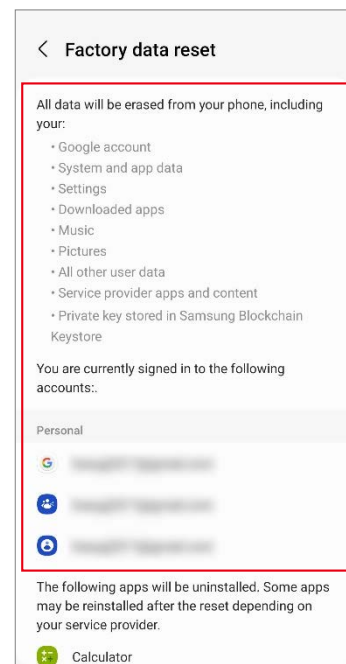
Performing a Factory Data Reset

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

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

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

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



3 Tap **Reset** → **Delete all**.

All data will be deleted when rebooting.



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

Quality Test

Quality Test Using the Samsung Members App

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



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

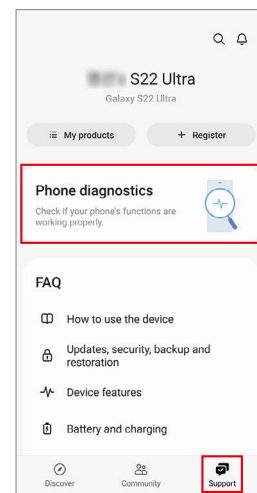
Device Diagnostics

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

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

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

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

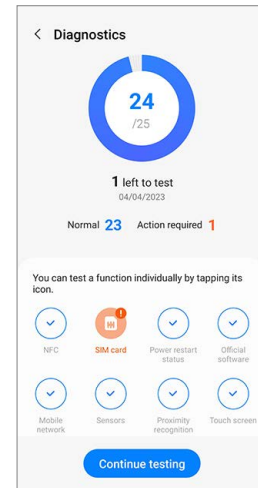


3 Tap **Test all**.

The device performs a test on all items.

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

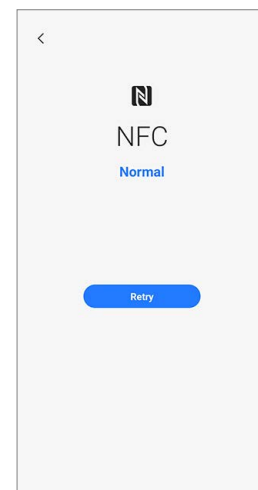
- Tick mark: Working normally
- Exclamation mark: Needs further inspection
- The test proceeds automatically, but you may need to follow the on-screen instructions depending on the test item. Keep an eye on the screen during testing to ensure smooth progress.
- If the exclamation mark appears on any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



Test Items

NFC

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

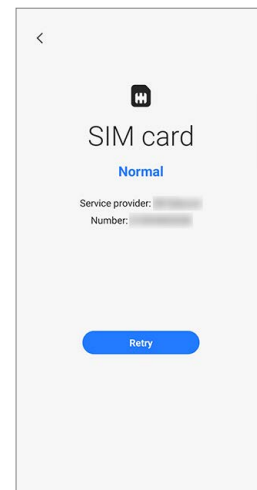


SIM card

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

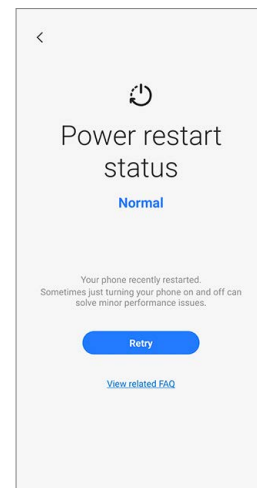


If the test result is not **Normal**, remove the SIM card from the SIM card tray and replace it. If possible, try again with another SIM card.



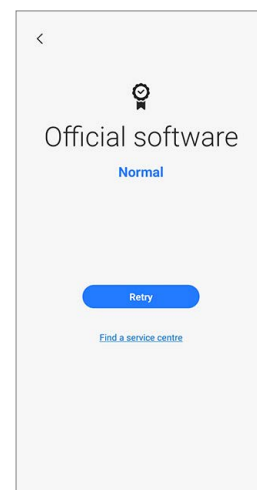
Power restart status

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



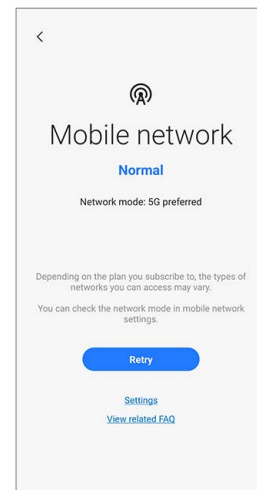
Official software

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



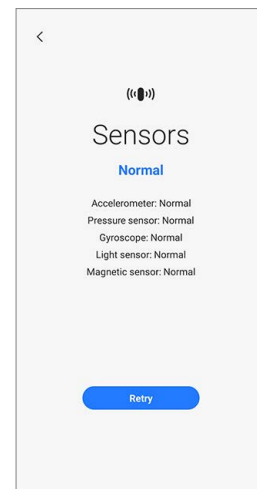
Mobile network

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



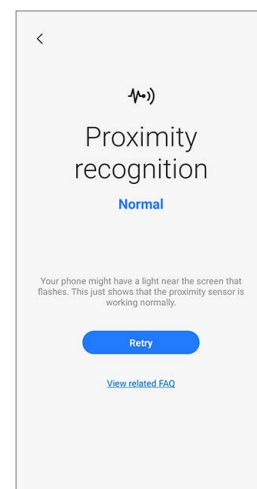
Sensors

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



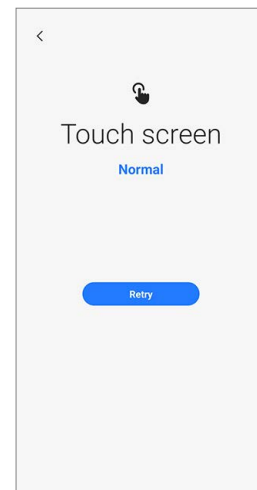
Proximity recognition

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



Touch screen

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

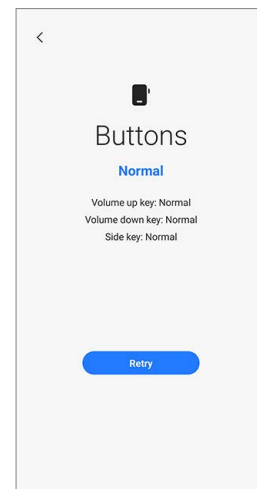


Buttons

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

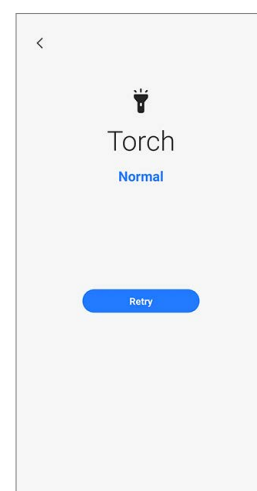
Press the buttons by following the directions on the screen.
- Provided information
 - Status: View whether the feature is working normally.
 - Button types: View the status of each button.

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



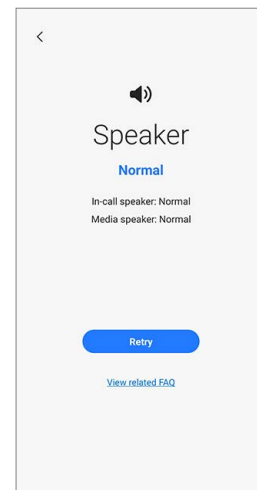
Torch

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



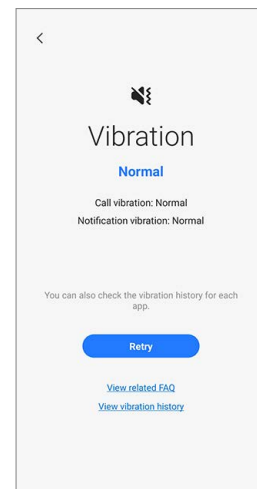
Speaker

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



Vibration

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

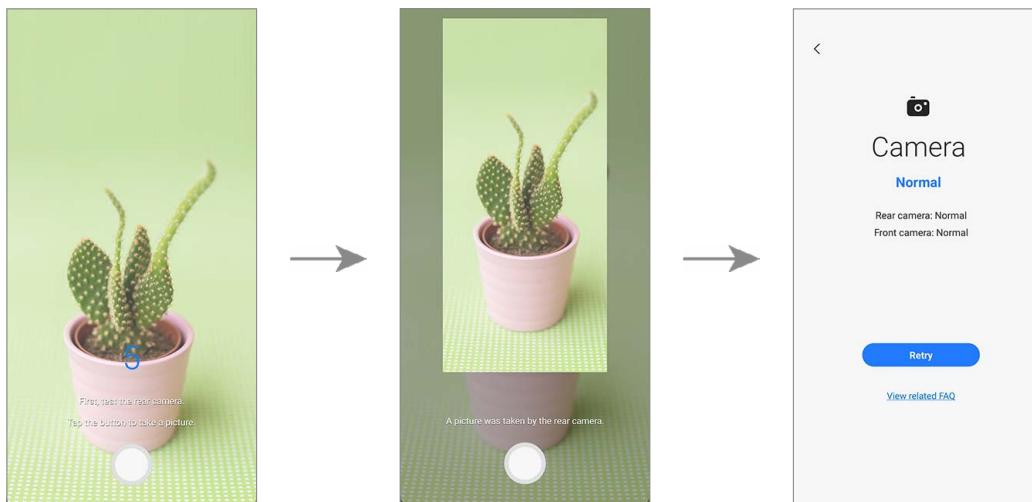


Camera

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

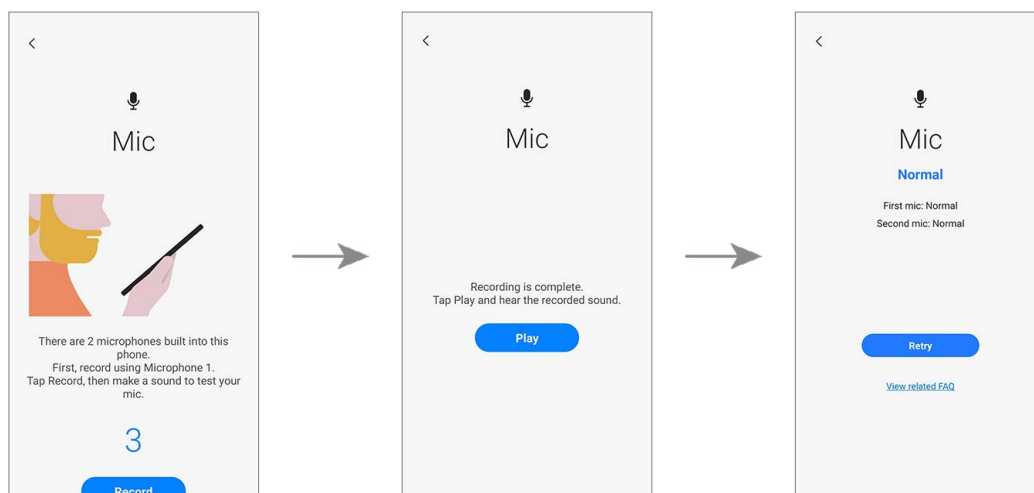
Tap the camera button to test the rear and front cameras.

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



Mic

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

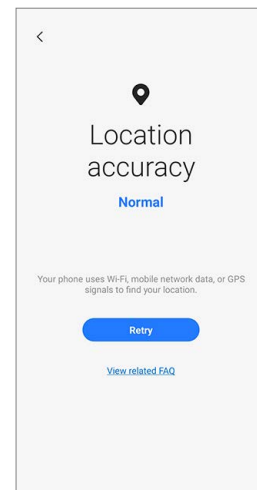


Location accuracy

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



The results might be more accurate when you test outside.

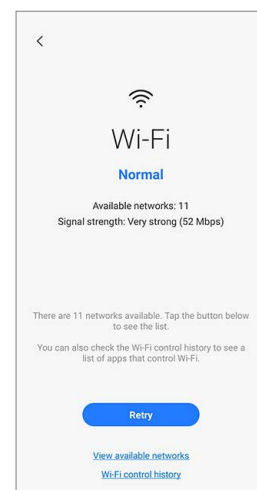


Wi-Fi

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



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

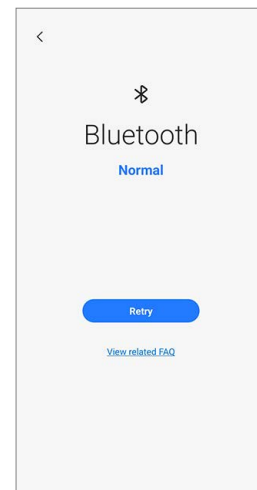


Bluetooth

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



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

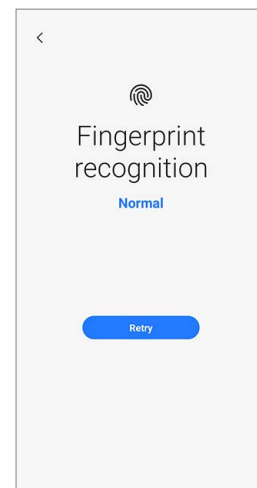


Fingerprint recognition

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



To test this feature, your fingerprint must be registered.

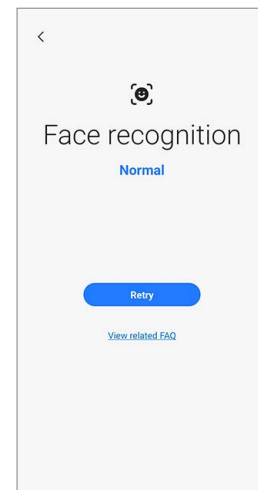


Face recognition

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



To test this feature, your face must be registered.

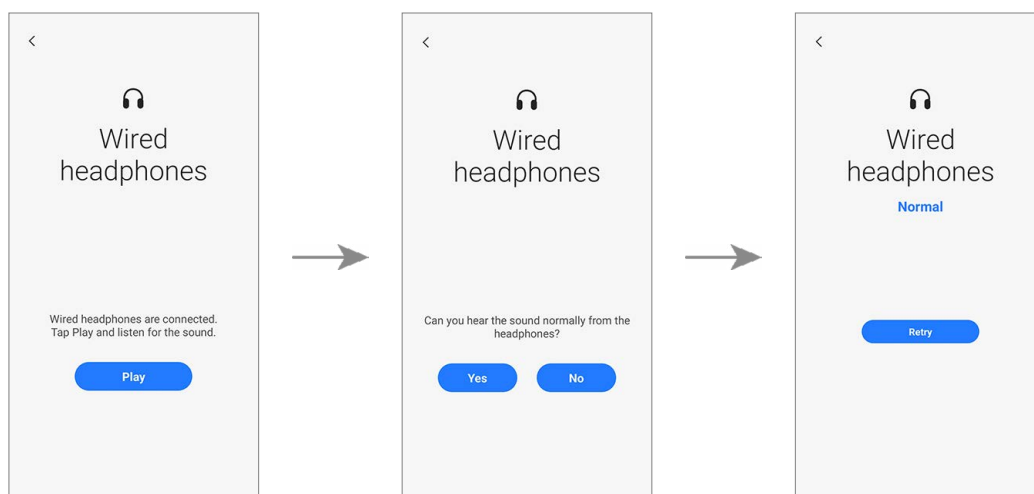


Wired headphones

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

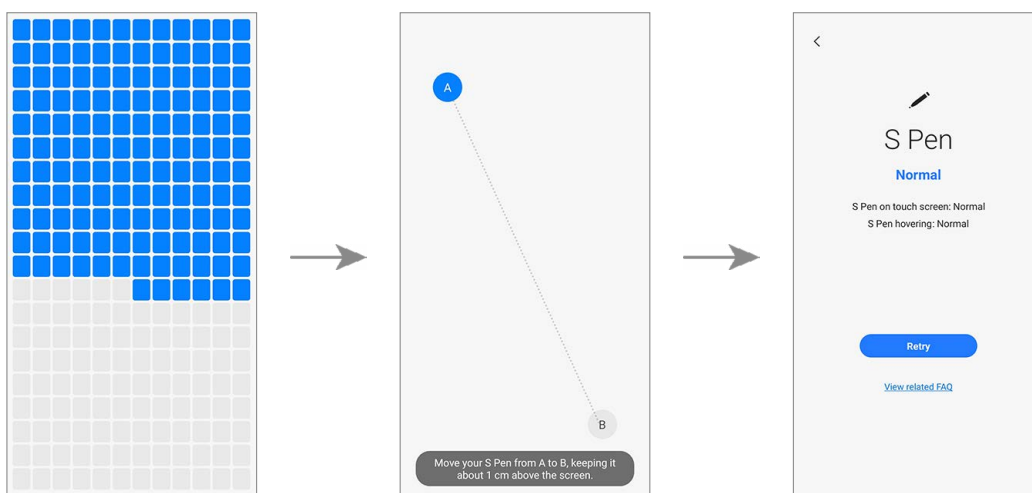


To test this feature, you must connect headphones.



S Pen

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

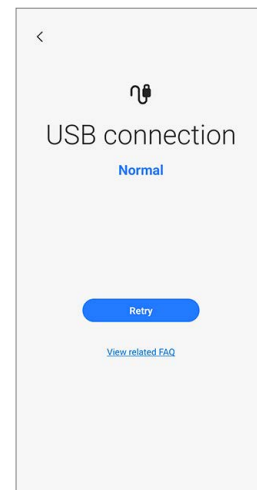


USB connection

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



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

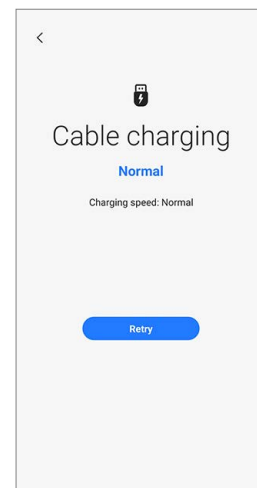


Cable charging

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



Use only Samsung-approved chargers.

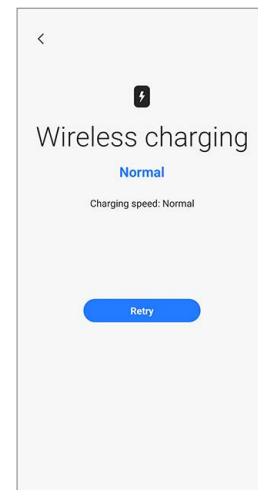


Wireless charging

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

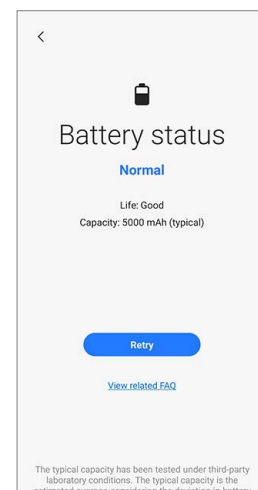


Use only Samsung-approved wireless chargers.



Battery status

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



Calibrations

Calibrations

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

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



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

Used Parts and Calibration Functions in Supported Models

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

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



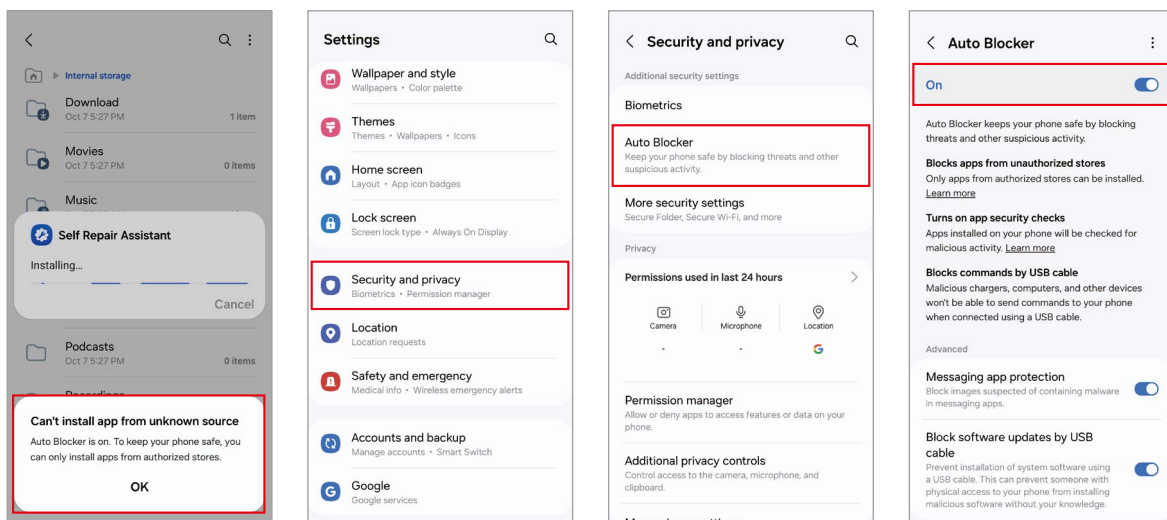
- Depending on the model, the screen module may include batteries. So when the screen module is replaced, the battery also has to be selected and a battery cycle reset must be performed.
- In the Fold models, touch screen panel calibration is performed for both the main and cover screens.
- Digital hall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

Using the Self Repair Assistant App

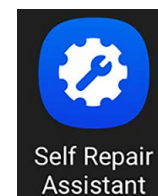
1 Download the **Self Repair Assistant** app from **Galaxy Store**.



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



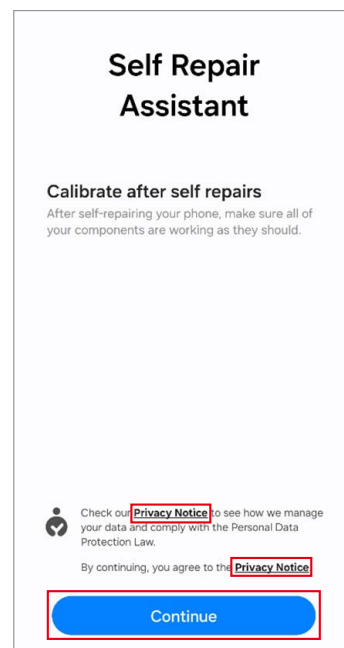
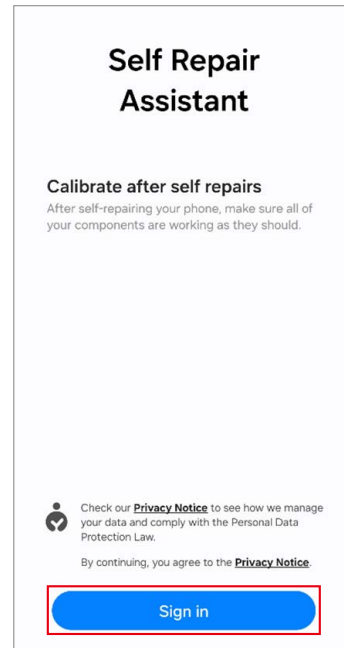
2 Launch the **Self Repair Assistant** app.



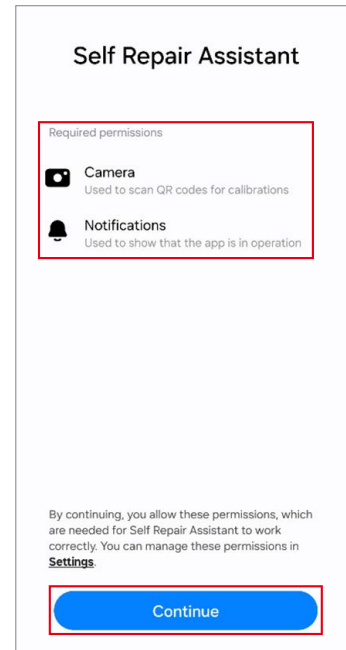
3 Read Privacy Notice and tap **Continue**.



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



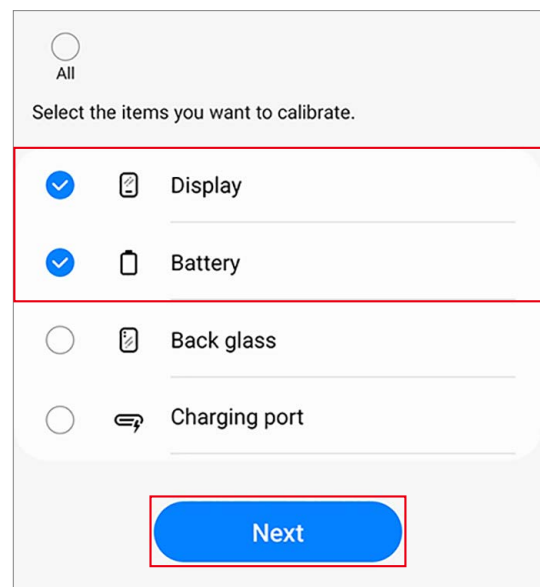
4 Check permissions and tap **Continue**.



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



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



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

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

Optical fingerprint sensor calibration

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

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

Start

Skip

Camera range sensor calibration

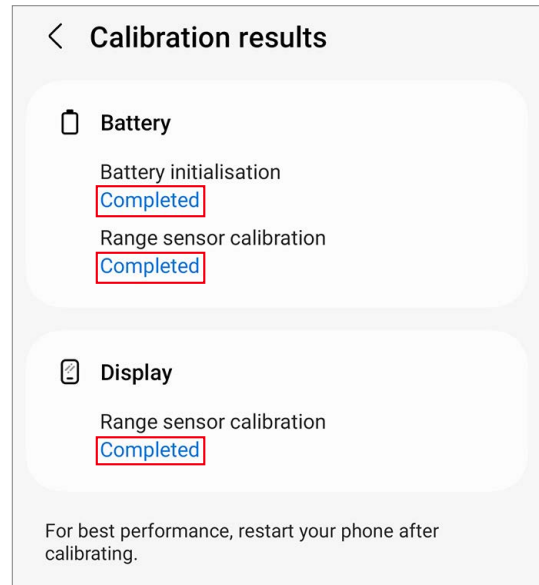
This calibration needs to be done in the dark. Move to a dark room before starting this calibration.

Start

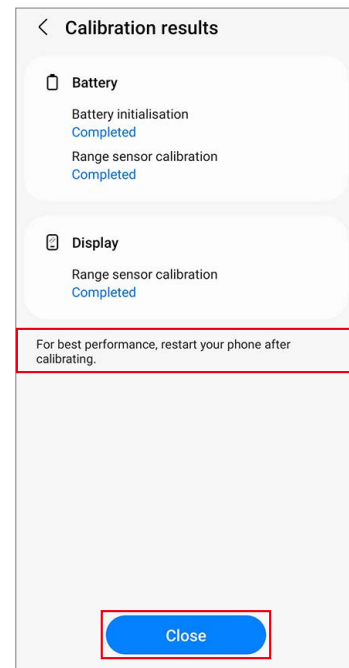
Skip

7 Check the results of each calibration item.

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



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



Optical Fingerprint Sensor Calibration

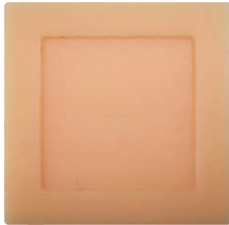
Whenever the screen is replaced, the optical fingerprint sensor must be calibrated to guarantee optimised fingerprint sensor performance for devices that have it.

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



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

White calibration box



Black calibration box



3D fingerprint dummy rubber

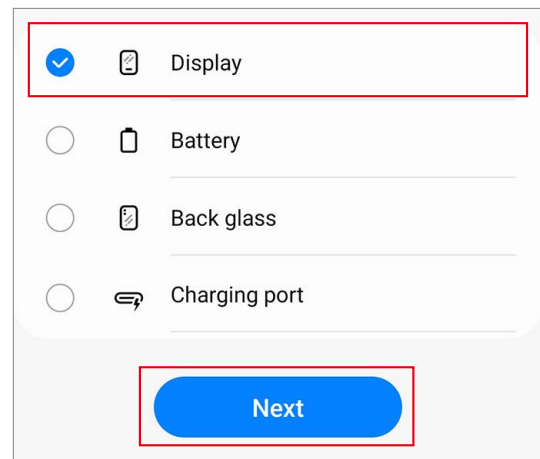


1 Launch the **Self Repair Assistant** app.

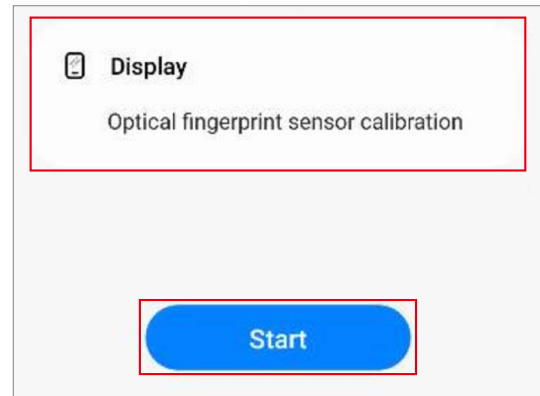
2 Tap **Display** → **Next**.



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

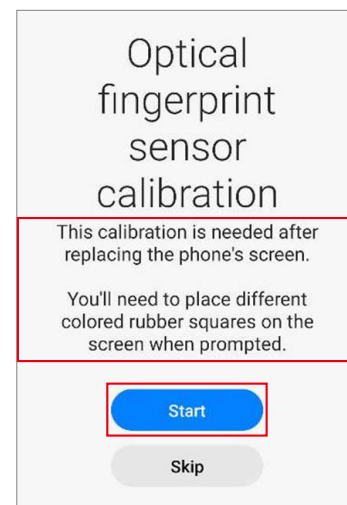


- 3 Check the part and calibration and then tap **Start**.



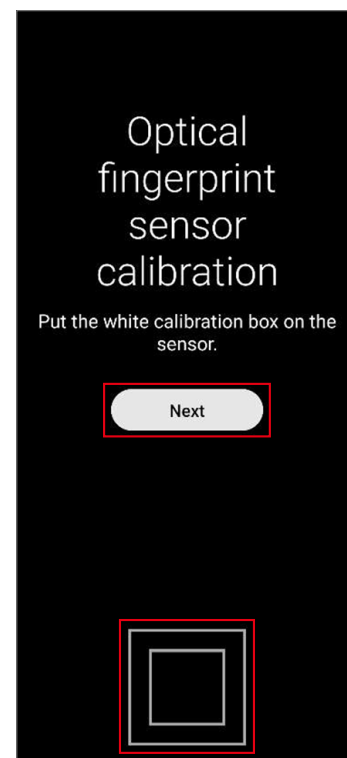
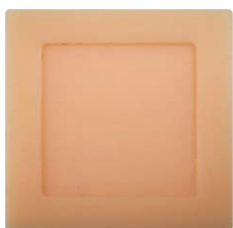
- 4 Read the on-screen instructions and tap **Start**.

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



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

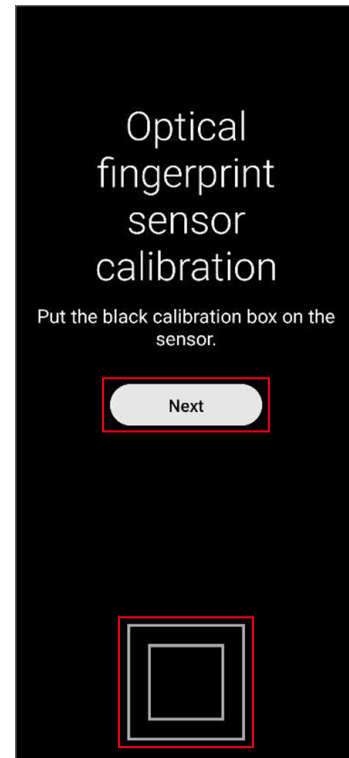
-  The bottom side of the rubber that is shaped like a square should be located on the square guide line.



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



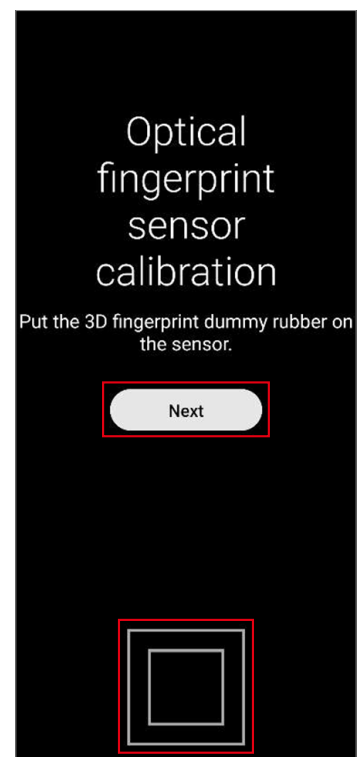
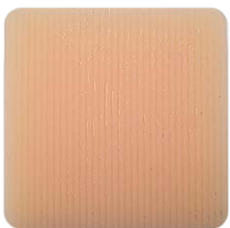
- The black calibration box must be prepared before you start.
- The bottom side of the rubber that is shaped like a square should be located on the square guide line.



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



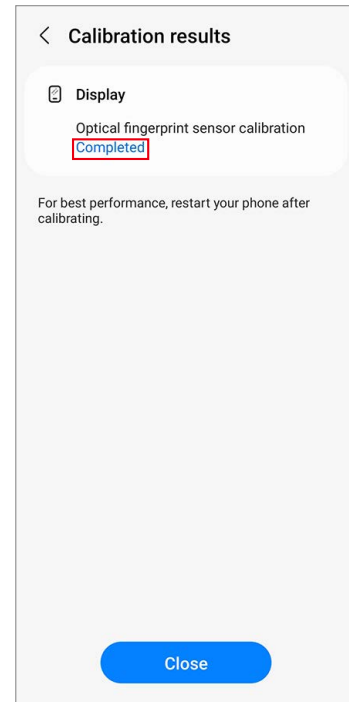
- The 3D fingerprint dummy rubber must be prepared before you start.
- The bottom side of the rubber that is shaped like a square should be located on the square guide line. (Do not place the pattern horizontally on the 3D fingerprint dummy rubber.)



8 Check the result of the calibration.



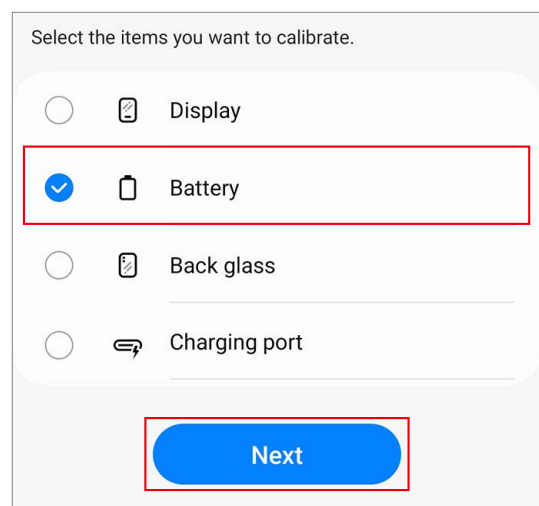
Completed appears only when the calibration is successfully completed. If **Completed** does not appear, try calibrating again.



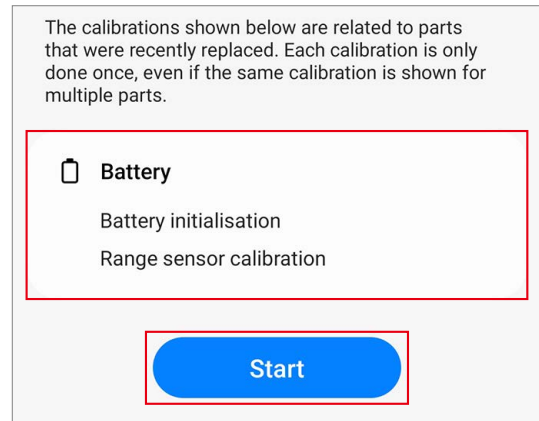
Resetting the Battery Cycle Count

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

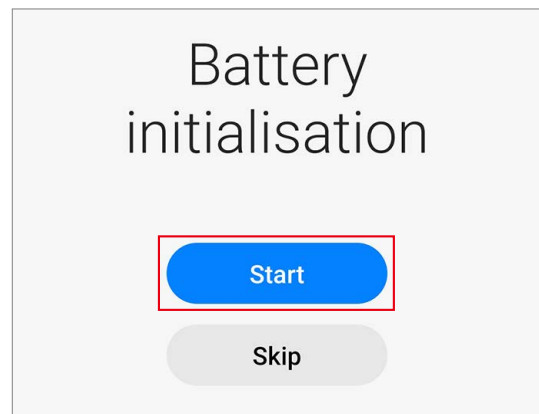
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced.
Tap **Battery** → **Next**.



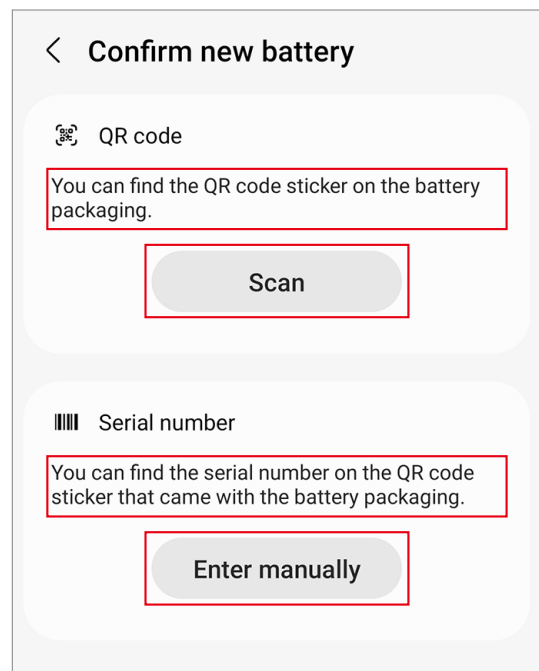
3 Check part and calibration and tap **Start**.



4 Tap **Start**.



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



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

The reset will begin.



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



< Confirm new battery

Battery serial number

- 7 Check the calibration results.

< Calibration results

Battery

Battery initialisation
Completed

Range sensor calibration
Completed

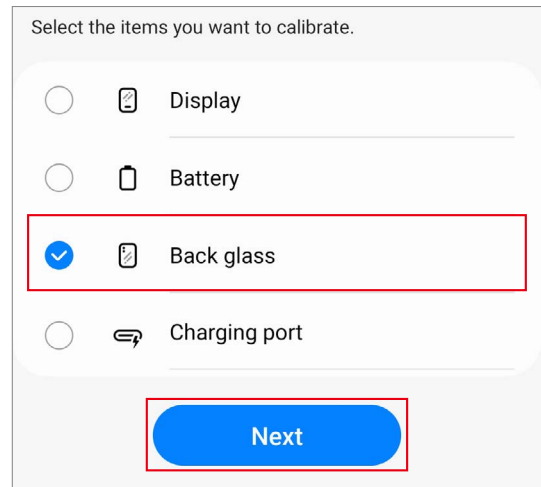
Range Sensor Calibration

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

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

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

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

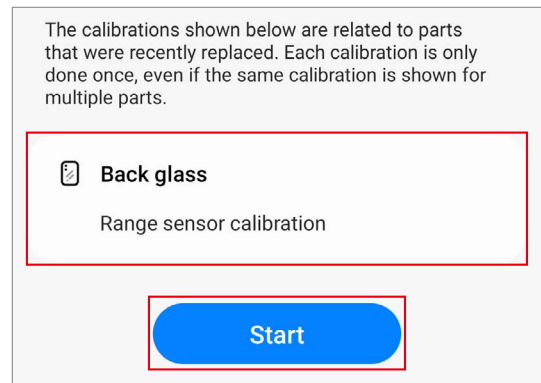


Select the items you want to calibrate.

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

Next

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

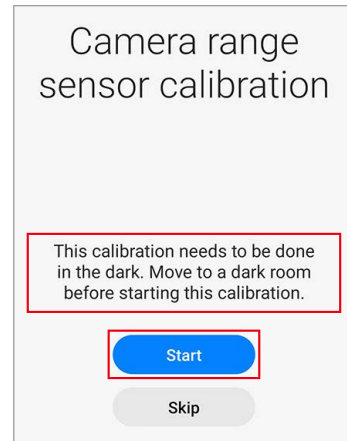


The calibrations shown below are related to parts that were recently replaced. Each calibration is only done once, even if the same calibration is shown for multiple parts.

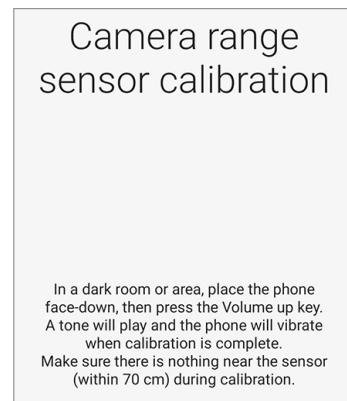
-  **Back glass**
Range sensor calibration

Start

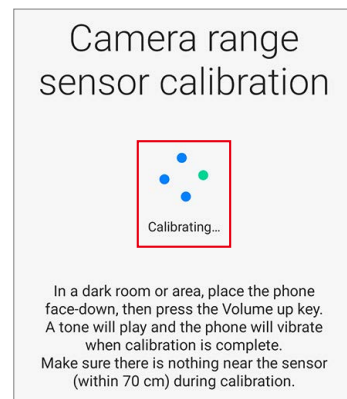
- 4 Read the on-screen instructions and tap **Start**.



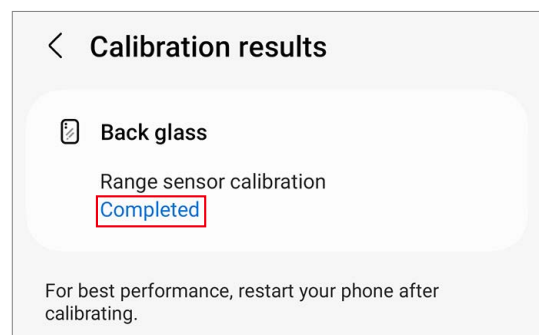
- 5 In a dark room or area, place the phone face-down, then press the Volume button.



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



- 7 Check the calibration result.



Touch Screen Panel Calibration

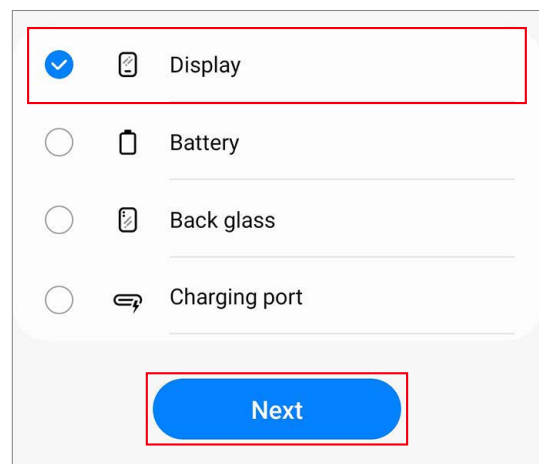
When replacing screens, touch screen panel calibration is required to ensure accurate touch input.

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

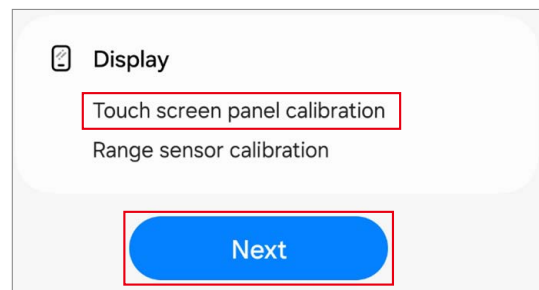


In the Fold models, touch screen panel calibration is performed for both the main and cover screens.

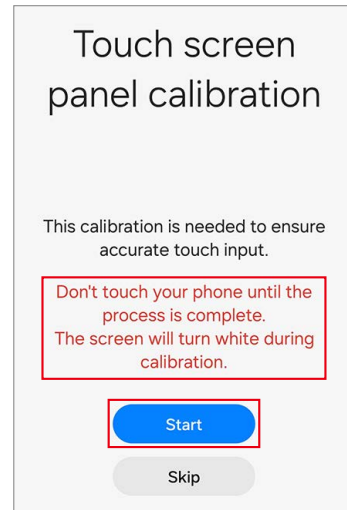
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



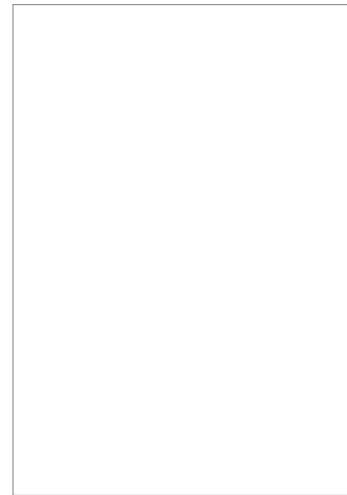
- 3 Check part and calibration and tap **Next**.



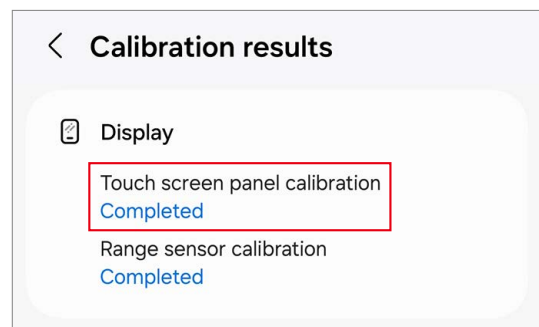
- 4 Read the on-screen instructions and tap **Start**.



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



- 6 Check the calibration result.

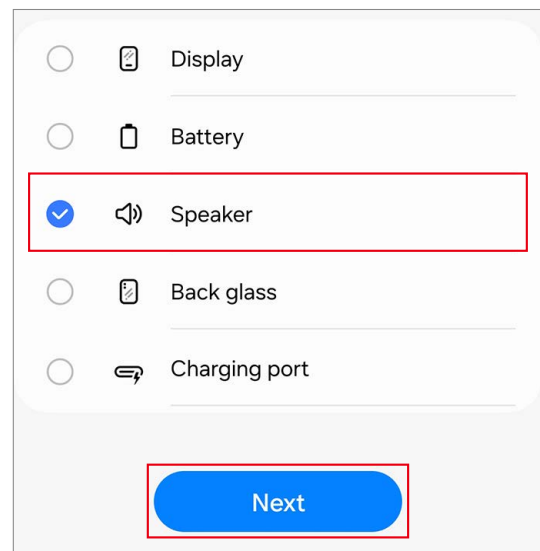


Speaker Calibration

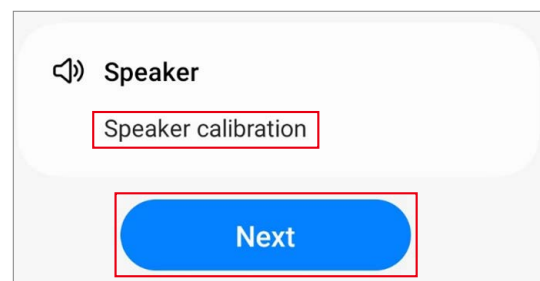
When replacing speakers, the speaker must be calibrated to guarantee optimised speaker performance for devices that have it.

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

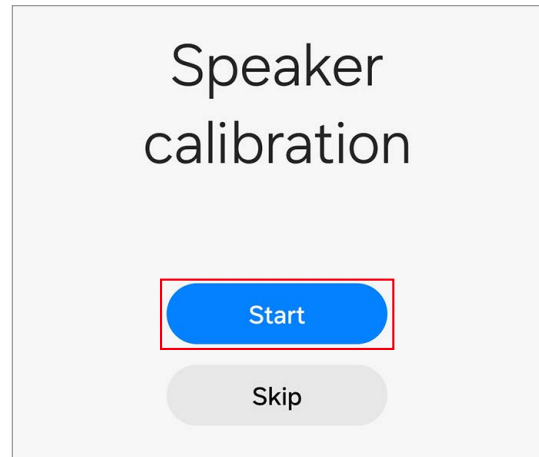
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



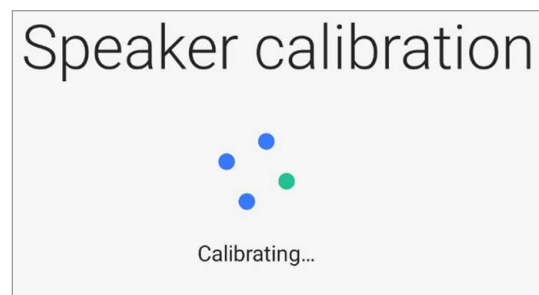
- 3 Check part and calibration and tap **Next**.



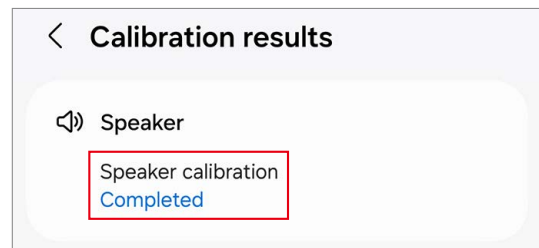
4 Tap **Start**.



5 The calibration will perform automatically.



6 Check the calibration result.



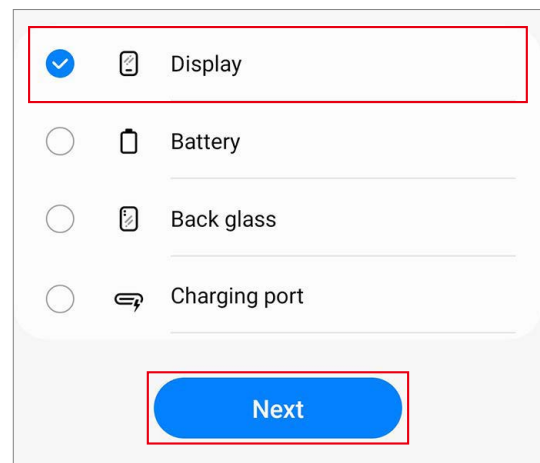
Under-display Camera Calibration (Fold Models Only)

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

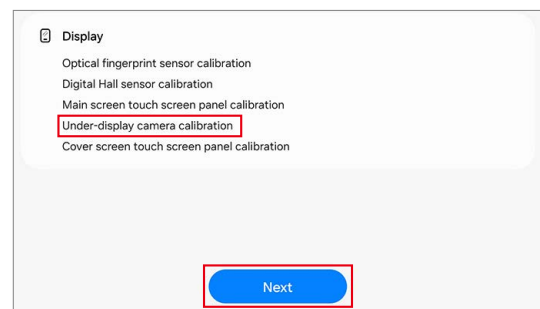
Under-display camera calibration is available through the **Self Repair Assistant** app.

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

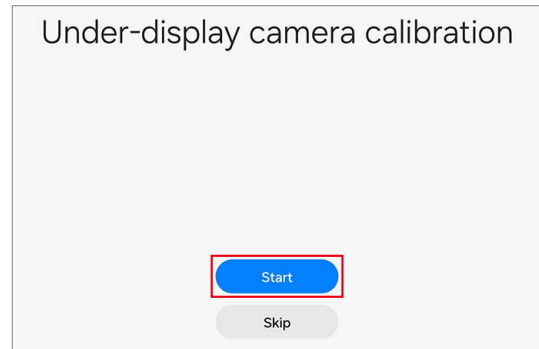
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



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

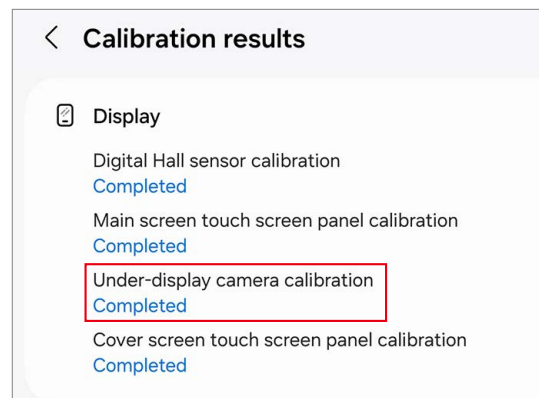


4 Tap **Start**.



5 The calibration will perform automatically.

6 Check the calibration result.



Digital Hall Sensor Calibration (Fold and Flip Models Only)

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

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

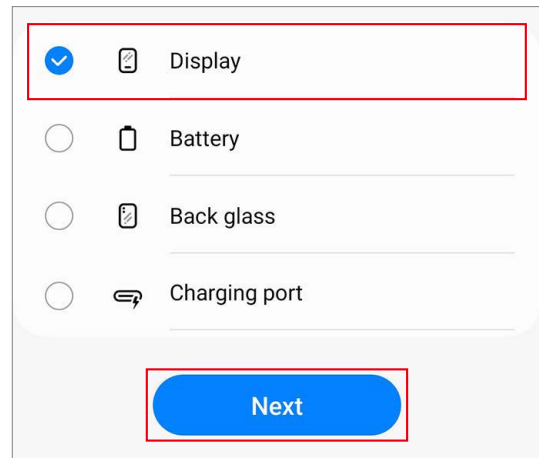


- This feature may not be available depending on the model. The availability of this feature can be automatically checked in the Self Repair Assistant app, so please follow the guidance of the Self Repair Assistant app.
- **For Fold models:** If the main screen does not turn on after being replaced (the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

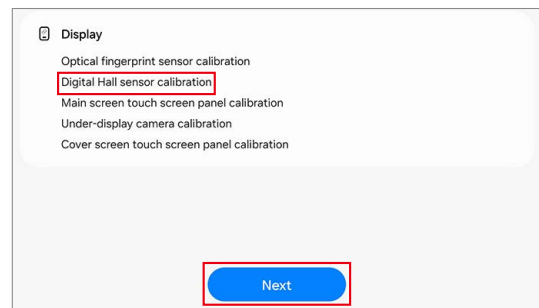
When calibration is complete, the main screen will turn on normally.

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

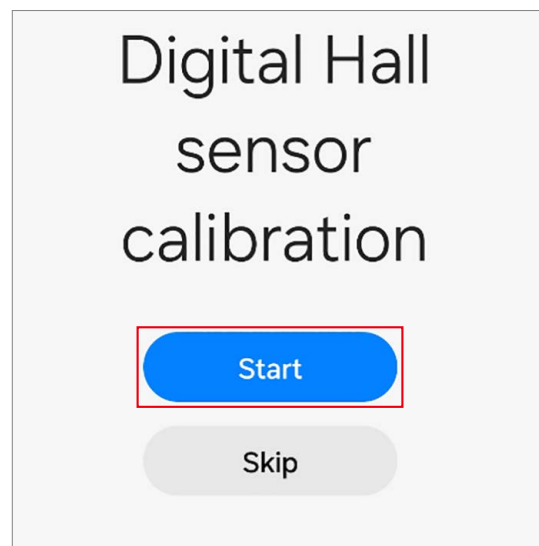
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



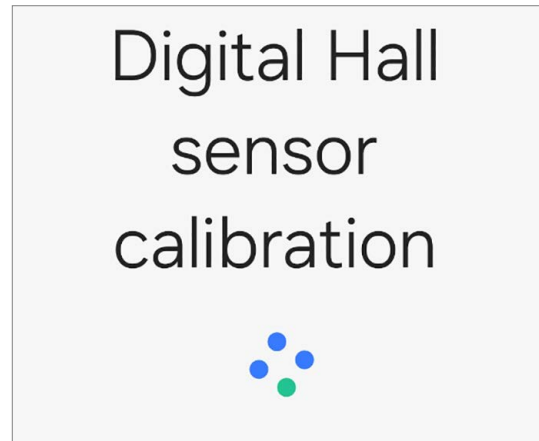
- 3 Check part and calibration and tap **Next**.



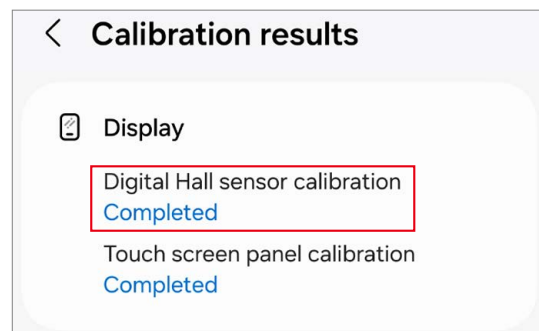
- 4 Tap **Start**.



5 The calibration will perform automatically.



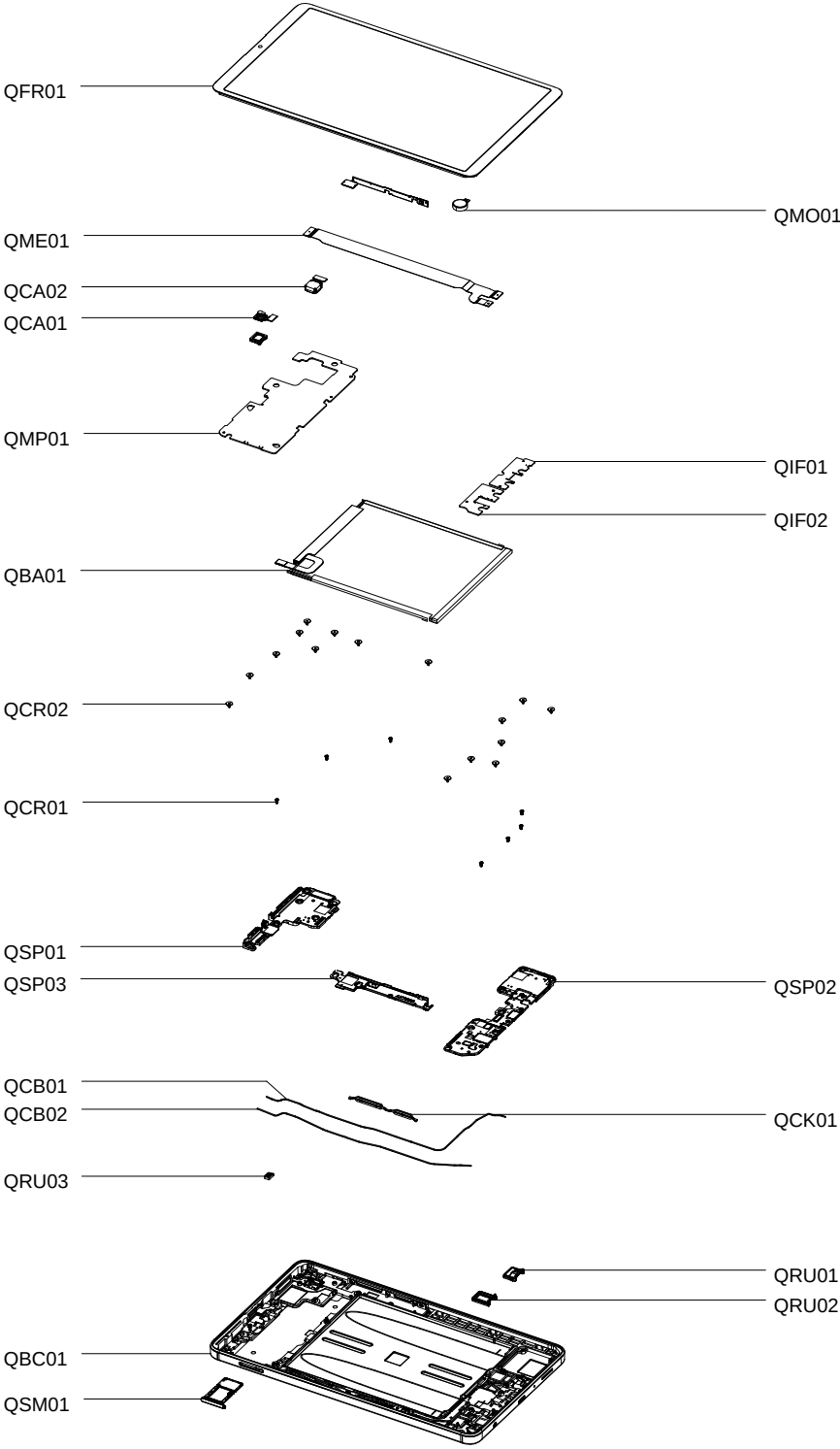
6 Check the calibration result.



Exploded View and Parts List

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

Exploded View



Parts List

Number	Name
QFR01	Screen
QMP01	Main Board (PBA)
QIF01	USB PBA
QIF02	Headphone Jack PBA
QBA01	Battery
QBC01	Back Cover Module
QSP01	Top Speaker Bracket
QMO01	Vibrator Motor
QSM01	SIM Card Tray
QCR01	Screw 20679
QCR02	Screw 24269
QSP02	Bottom Speaker Bracket
QCA01	Front Camera
QCA02	Rear Camera
QME01	Main Flex Cable (Sub PBA to PBA)
QCB01	Antenna Flex Cable (BLACK)
QCB02	Antenna Flex Cable (WHITE)
QCK01	Side Button
QSP03	Side Button Bracket
QRU01	USB Rubber
QRU02	Headphone Jack Rubber
QRU03	Sensor Rubber

Disassembly and Assembly

Tools for Disassembly and Assembly

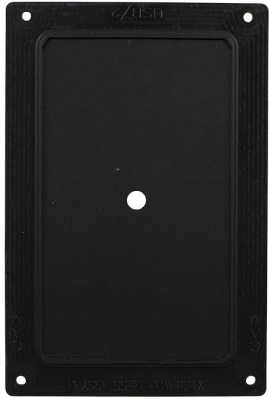
When repairing devices, you absolutely must wear protective equipment for your safety.

-  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		Prevents electrostatic damage (recommended)
Ejection Pin		Pin for ejecting the SIM card tray
Cross-head Screwdriver		Tool for screwing in cross-head screws
Opening Pick		Tool for disassembling the screen and other parts
Opening Tool		Tool for disassembling the connector and other parts
Suction Cup		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		Tool for handling connectors, cables, and other parts - Because it is possible to damage parts or components when using sharp tweezers, use tweezers made with plastic or rubber material. - When removing a Vibrator Motor, it is required to use the round tip metal tweezers.
Heating Bag		Tool for removing the screen and other parts
Calibration Rubber for Optical Fingerprint Sensor		Tool to calibrate the optical fingerprint sensor after replacing the screen This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.
Press Fixture		Tool for pressing the screen or the battery This tool is available to use by the rental of tool kit that contains a complete set of the tools for self repair service.

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

Composition of Rental Toolkit

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



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



Fasteners (Adhesives and Materials) for Assembly

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

Item	Quantity	Image	Description
Screen Adhesive Tape	1		Double sided adhesive tape for attaching the screen
Screw 24269	16		Screws for top speaker bracket (5 ea) Screws for main board (1 ea) Screws for bottom speaker bracket (7 ea) Screws for side button bracket (3 ea)
Screw 20679	7		Screws for LCD FPCB SUS (2 ea) Screws for bottom speaker bracket (4 ea) Screws for side button bracket (1 ea)

Item	Quantity	Image	Description
Vibrator Motor Adhesive Tape	1		Double sided adhesive tape for attaching the vibrator motor to screen module
Battery Adhesive Tape	2		Double sided adhesive tape for attaching the battery

Disassembly and Reassembly for replacement



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

Before disassembling:

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

Before reassembling:

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

For all cases of broken glass:

1 Wear safety goggles and cut-resistant gloves.

2 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

⚠ Ensure that the device is fixed on a flat surface.

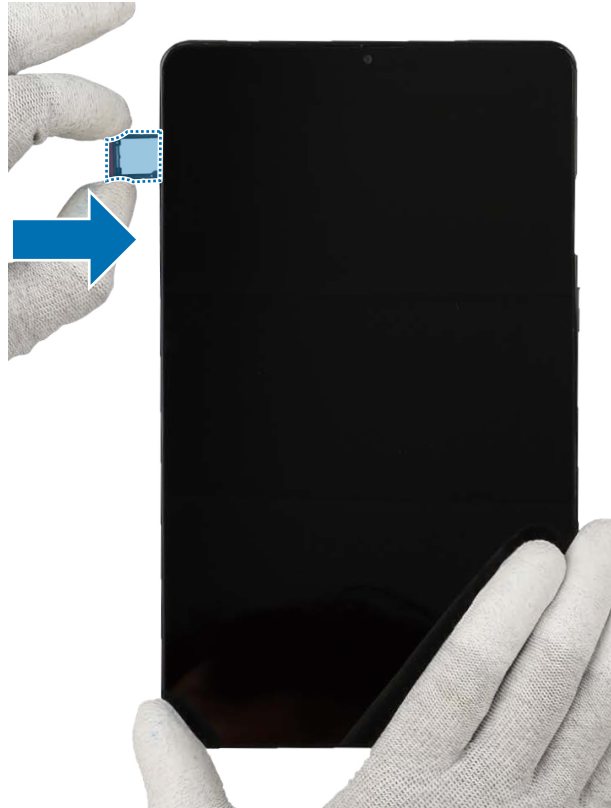
Prepare the device to repair by yourself. Insert the ejection pin into the hole of the SIM card tray to loosen the tray and pull out the tray gently from the tray slot.



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

Disassembly

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

1 Heat the microwaveable heating bag 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.)



- 2 Place the suction cup in the center of the top edge of the screen and lift it upwards carefully.

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



-  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 screen and the back cover module, place the opening pick in the gap between the edge of screen and the back cover module. Then, slide the opening pick back and forth along the edge to slice through the adhesive. Repeat this on all sides of the screen and slice through the adhesive. Lift up the screen slowly and carefully.



Do not push opening picks too deep. Too deep insertion can damage the circuit, causing the abnormal operation of the screen.



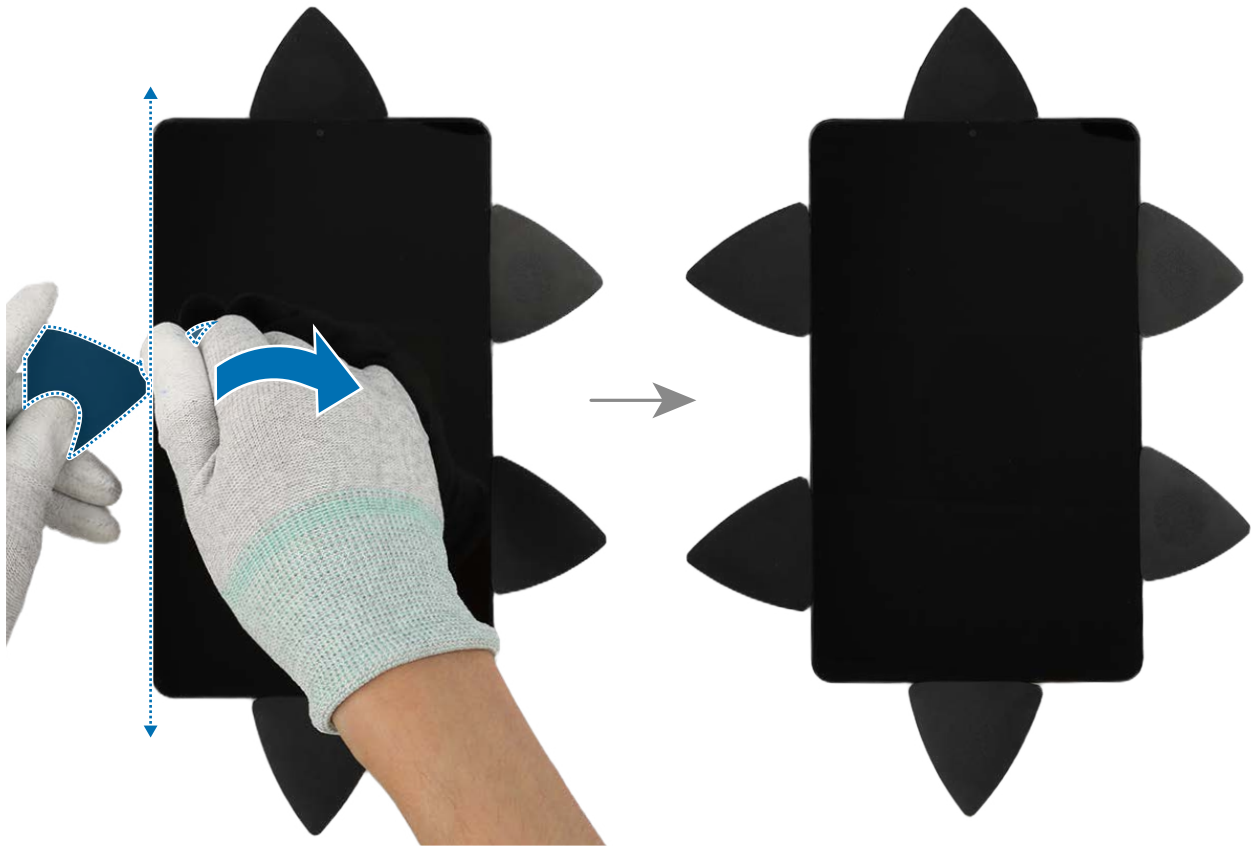
- As the screen can be damaged by excessive force, be careful not to damage the screen.
- As the internal circuitry can be damaged, do not insert the opening pick more than 1-2 mm.
- In case of bottom edge side of screen, very weak circuits are located very close to the edge. Just insert only about 1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



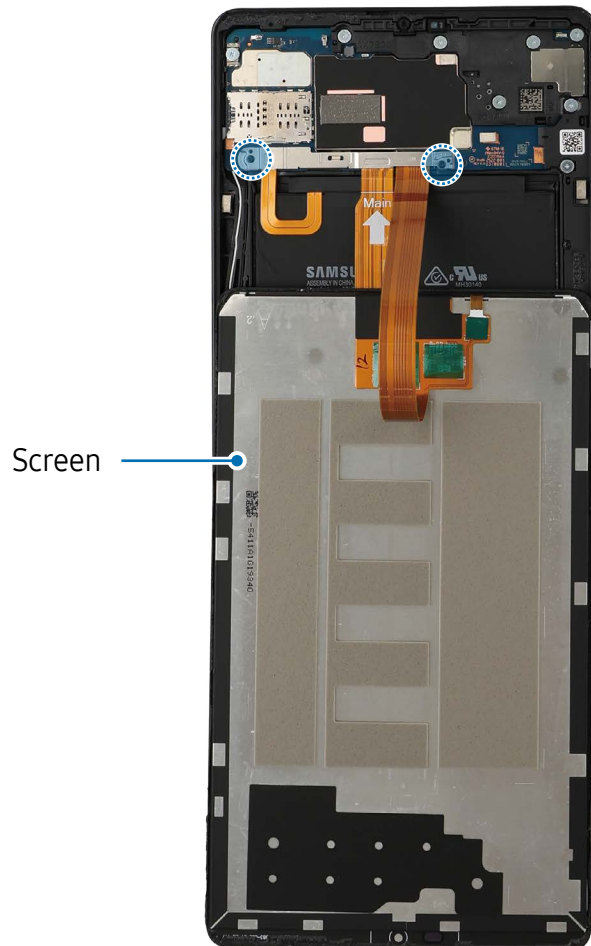
- Make sure to leave the opening picks inserted in the screen edges to prevent the adhesive from resealing. It is recommended that a large area of the opening pick be inserted.
- If you have trouble creating a gap, heat the microwaveable heating bag additionally, and apply it on the back cover to further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



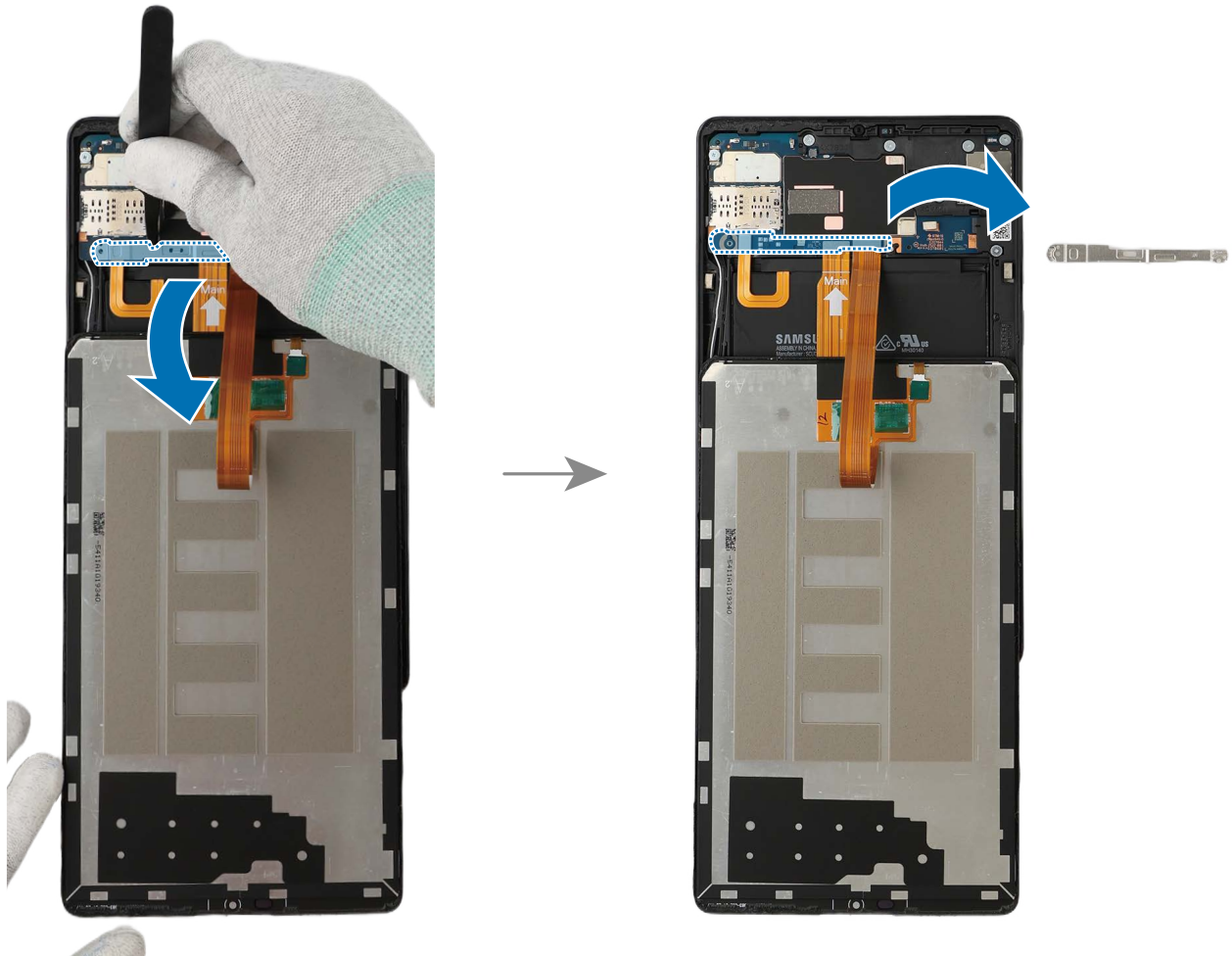




- 4 Before removing the screen completely, check and remove the screws at the 2 different points on the screen connector metal plate using a cross-head screwdriver.
- ⚠ Be careful not to damage the cable and connector.
- 📋 Check the number of screws that have been removed, and store them carefully to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



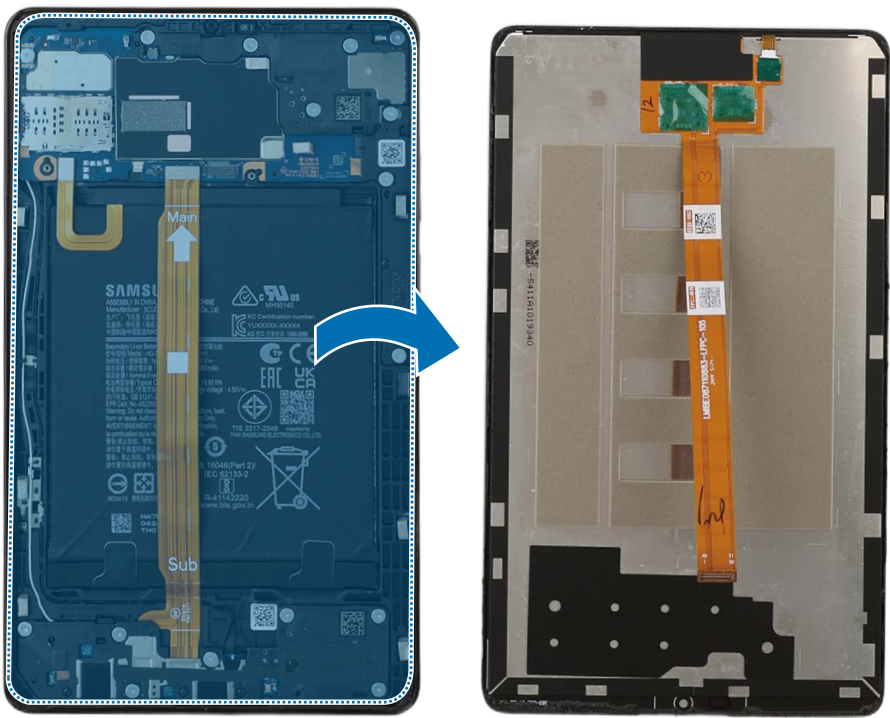
- 5 Using the tweezers, separate the screen connector metal plate from the back cover module.



6 Using the tweezers, separate the flex cable connector. Lift the screen and separate it from the back cover module completely.

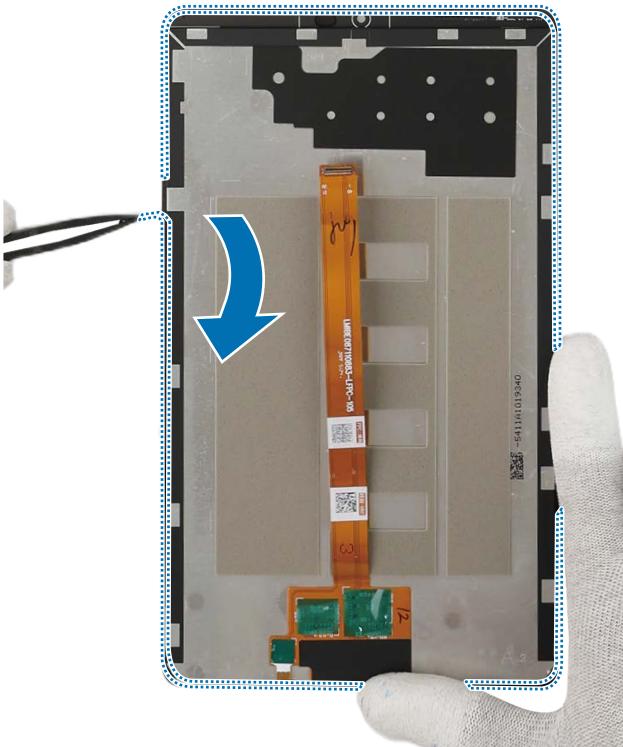
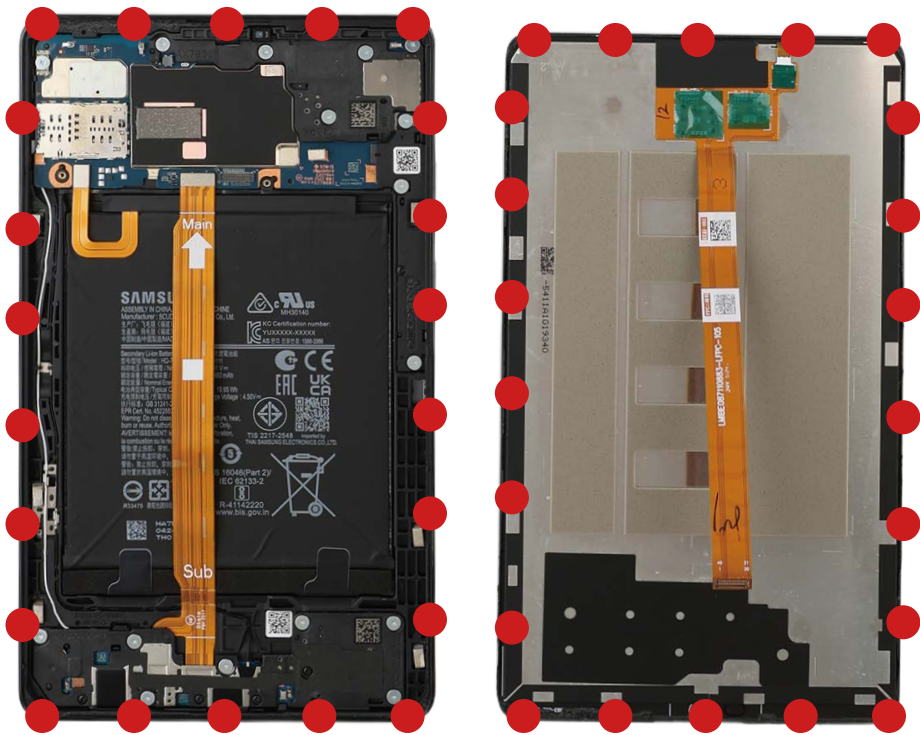
- ⚠ Do not forget to separate connectors.
- When removing the connector, be careful not to damage the cable.





Reassembly

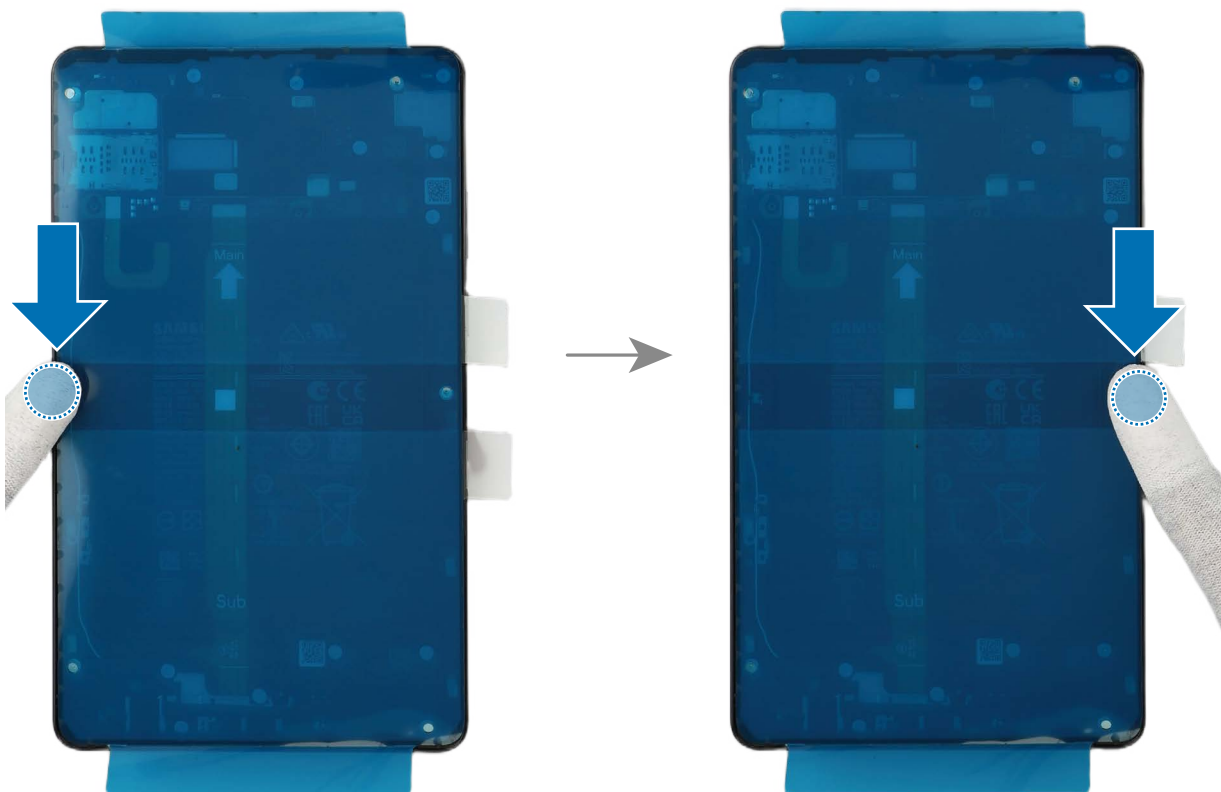
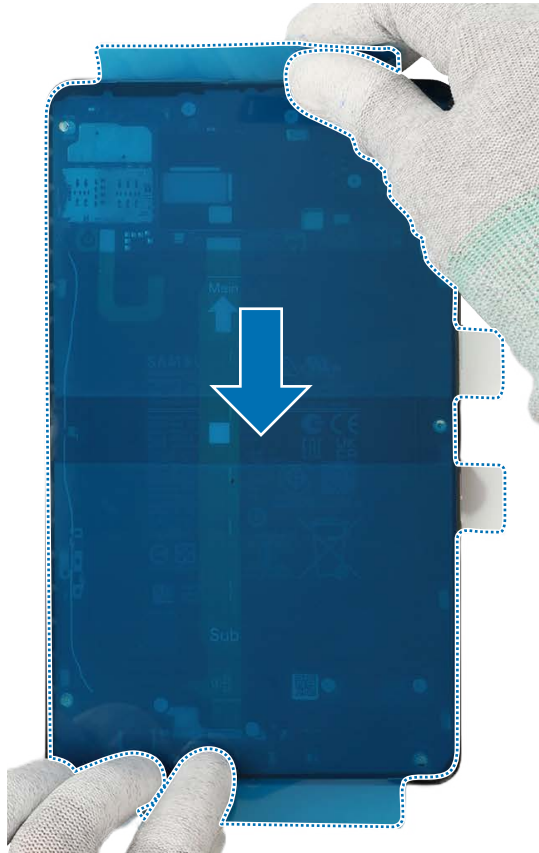
-  Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.
-  Before attaching the screen, make absolutely sure that there are no screws, miscellaneous parts, or other foreign objects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



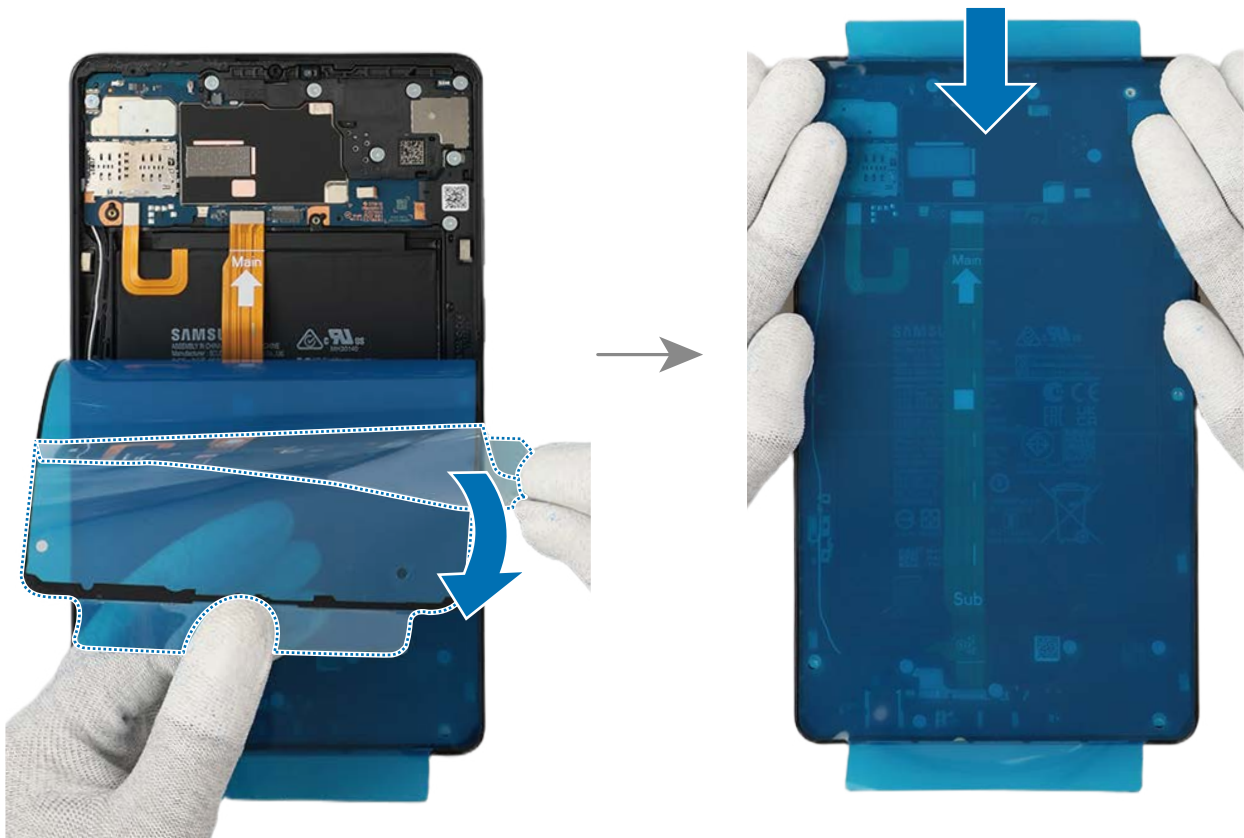
- 2 Remove the inner vertical transparent film on the centre of the new screen adhesive tape.



- 3 Align the adhesive tape precisely on the device frame and attach it. With fingers, gently press in the middle of both sides of the adhesive tape.



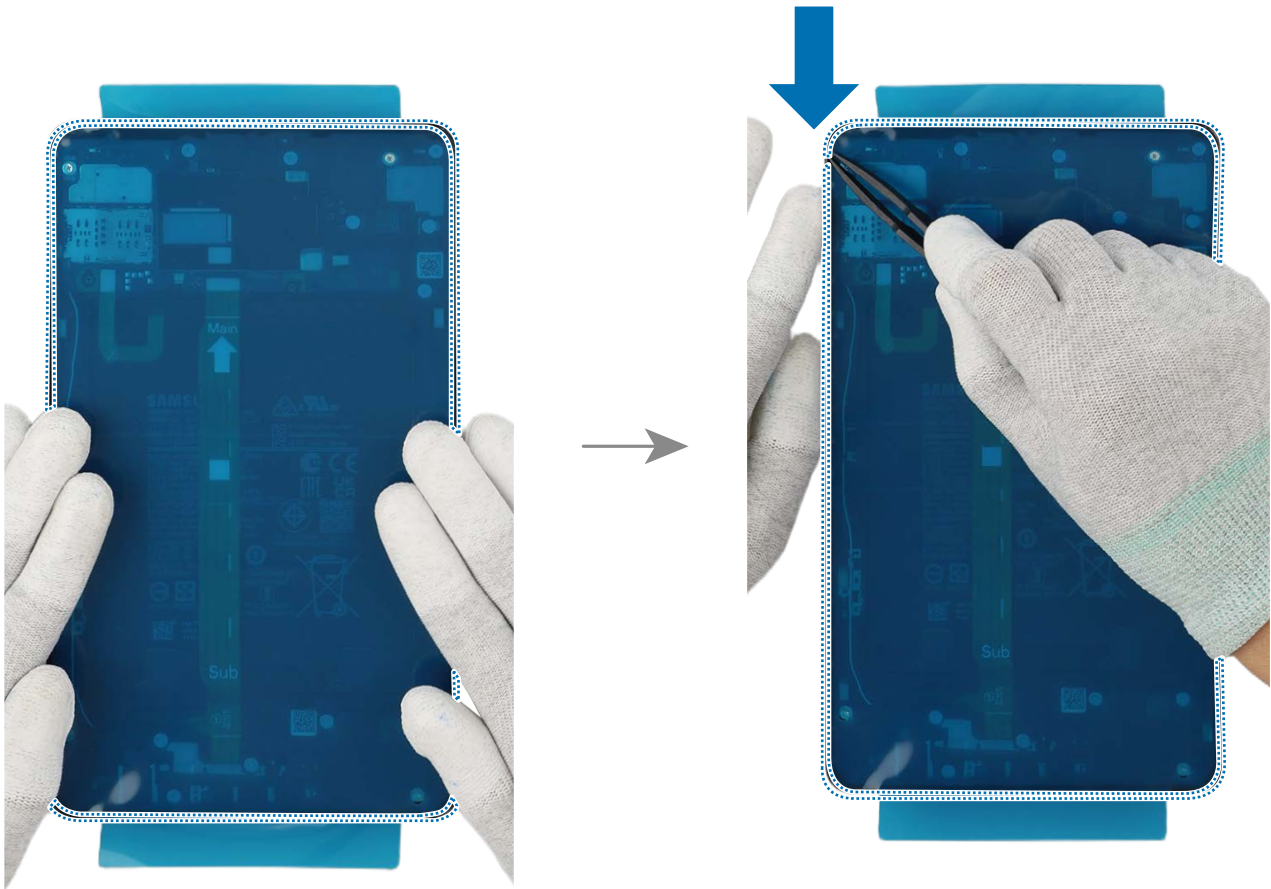
- 4 Lift the upper side of the adhesive tape up and remove the inner transparent film from the centre of the inside. Align the tape precisely on the upper of device frame so that the exposed tape is exactly attached.



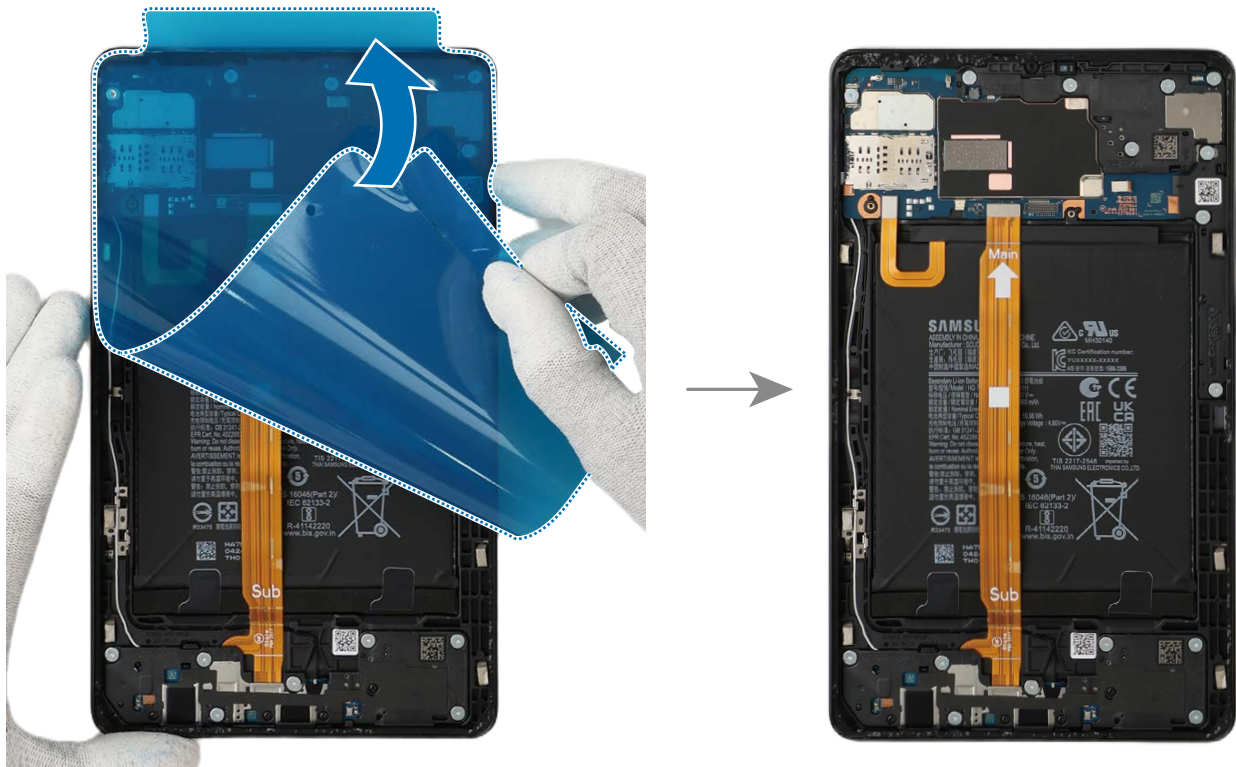
- 5 Lift the down side of the adhesive tape up and remove the inner transparent film from the centre of the inside. Align the tape precisely on the down of device frame so that the exposed tape is exactly attached.



- 6 Attach the tape and gently press down the edges of the tape to ensure a secure fit with your fingers and the tweezers.



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



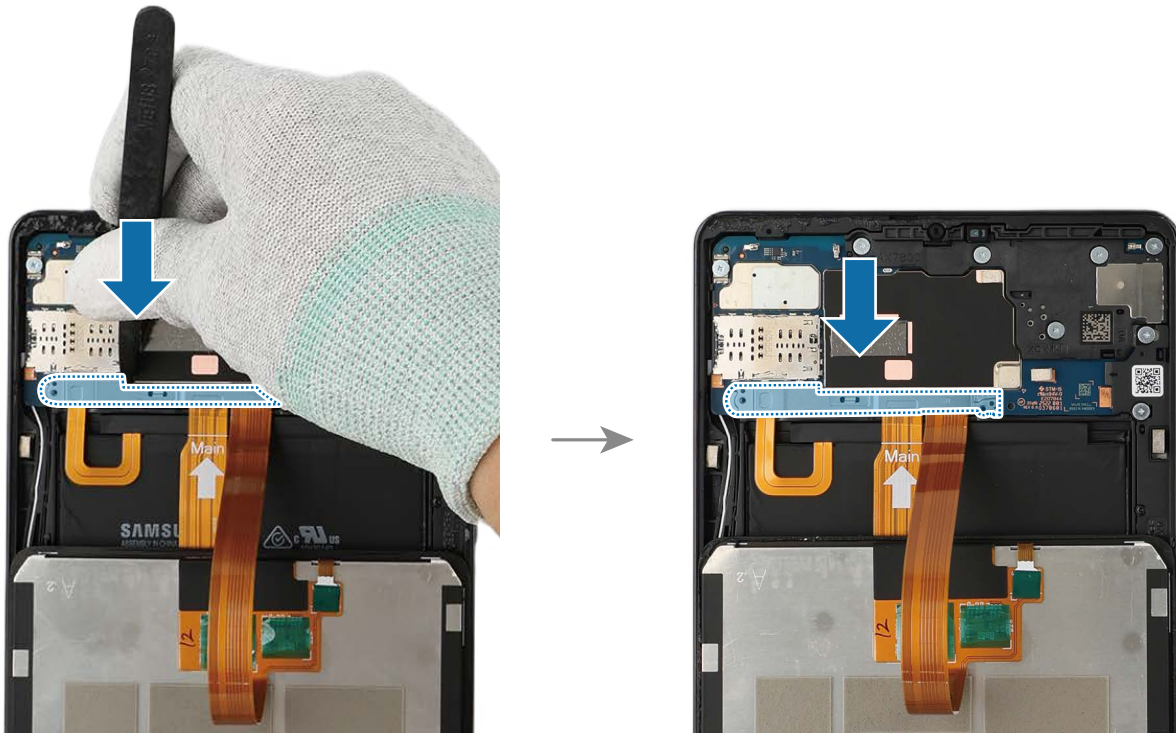
8 Leave the inside of the screen visible and connect the flex cable connector. Press down the connector softly with your fingers.

- ⚠ • Be careful not to damage the cable and the connectors.
- Be careful not to damage the screen.



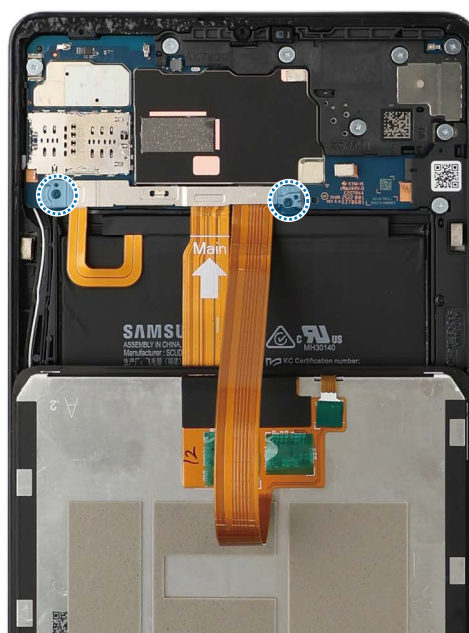
- 9 Using the tweezers, assemble the screen connector metal plate to the back cover module and press down it softly with your fingers.

⚠ Be careful not to damage the cable and connector.



- 10 Check the screw 20679 (2 ea) at the 2 different points of the metal plate and fasten them using a cross-head screwdriver.

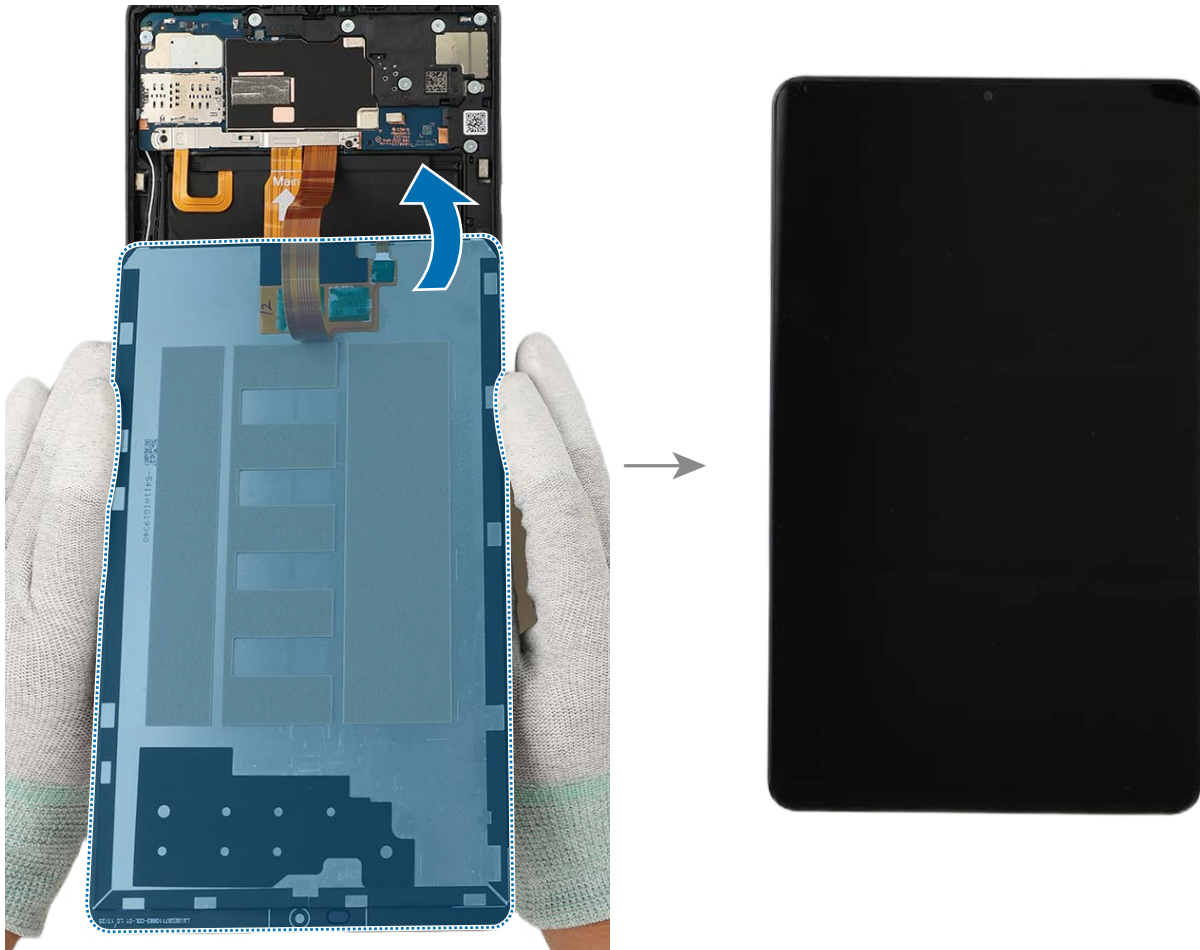
⚠ Be careful to not damage the cable and the near components



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

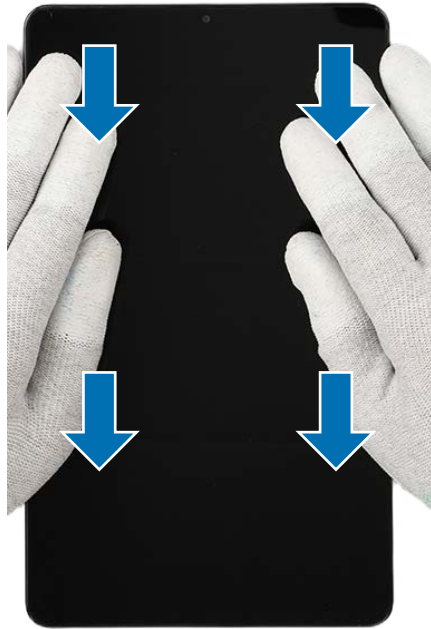


- Be careful not to damage the cables and the connectors.
- Be careful not to damage the screen.



12 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.



13 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 are currently available only in limited countries.

Front Camera

Disassembly

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

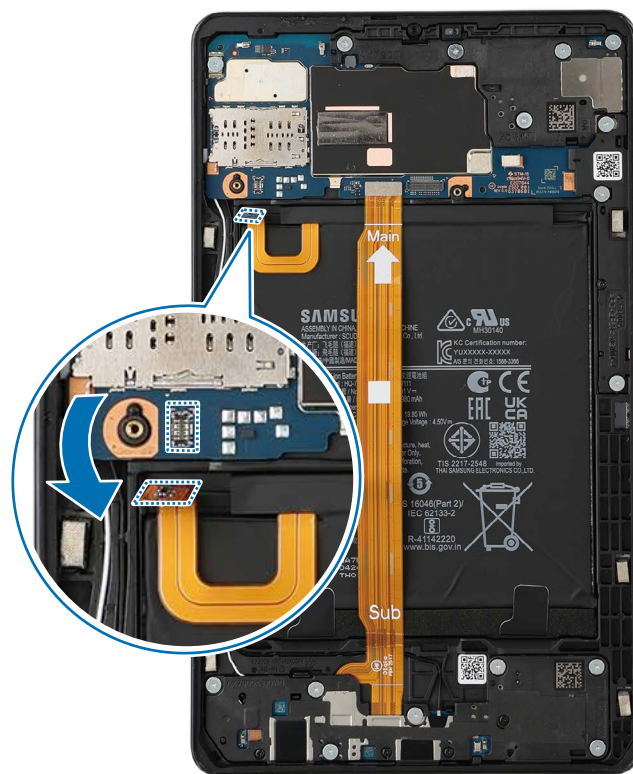
1 Using the tweezers, disconnect the battery connector first from the main board.



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

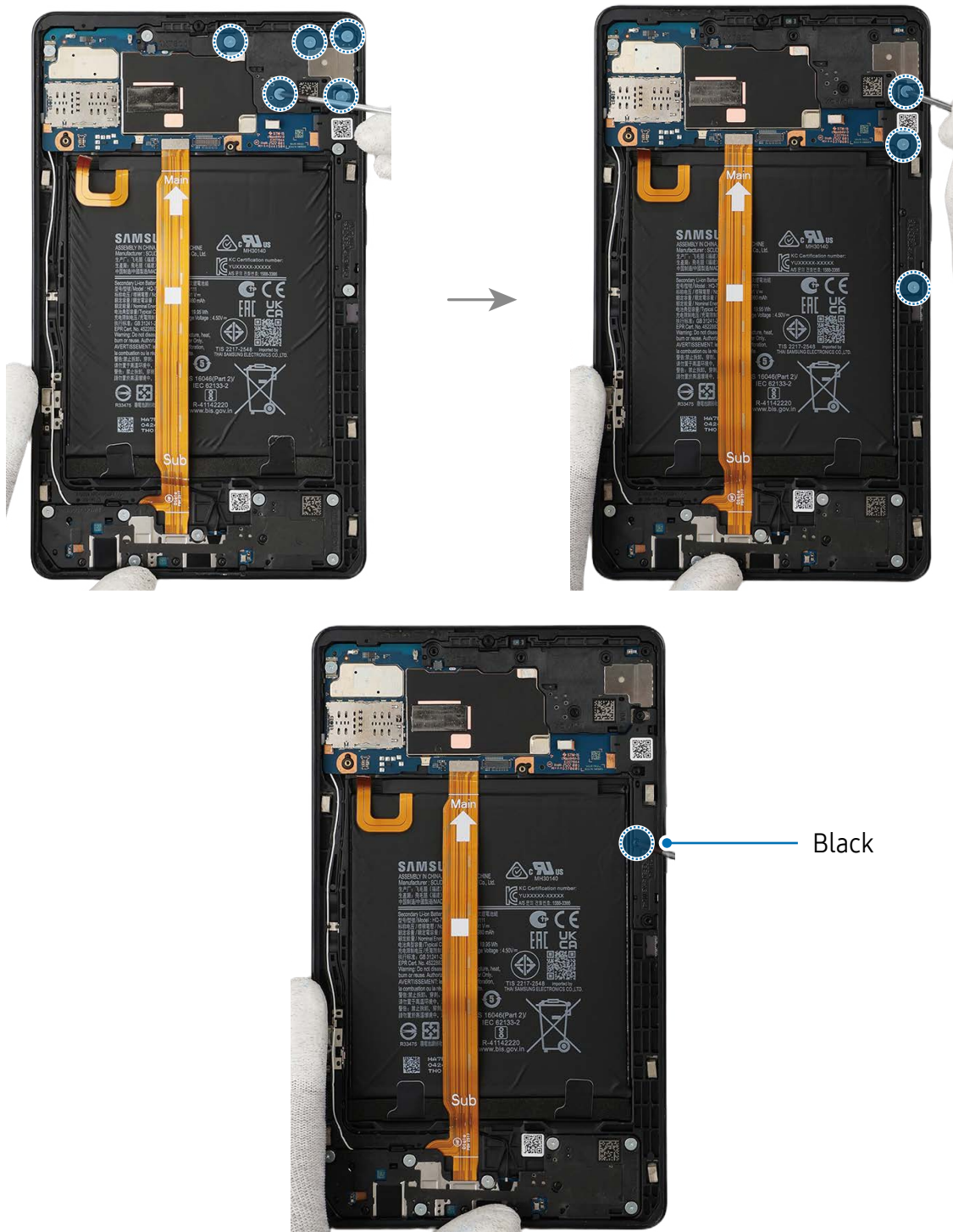


Be careful not to damage the main board and the near components.



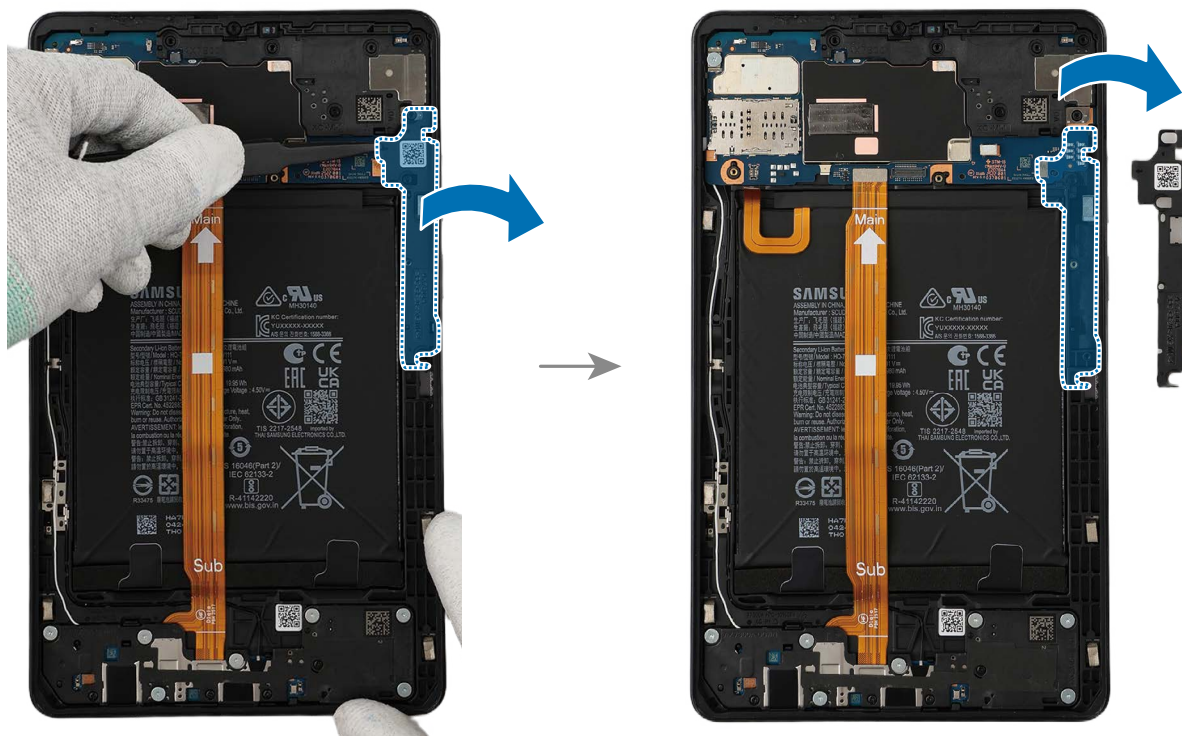
2 Check the 9 screws (silver 8 ea + black 1 ea) on the top speaker bracket and side button bracket and then remove them using a cross-head screwdriver.

 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.



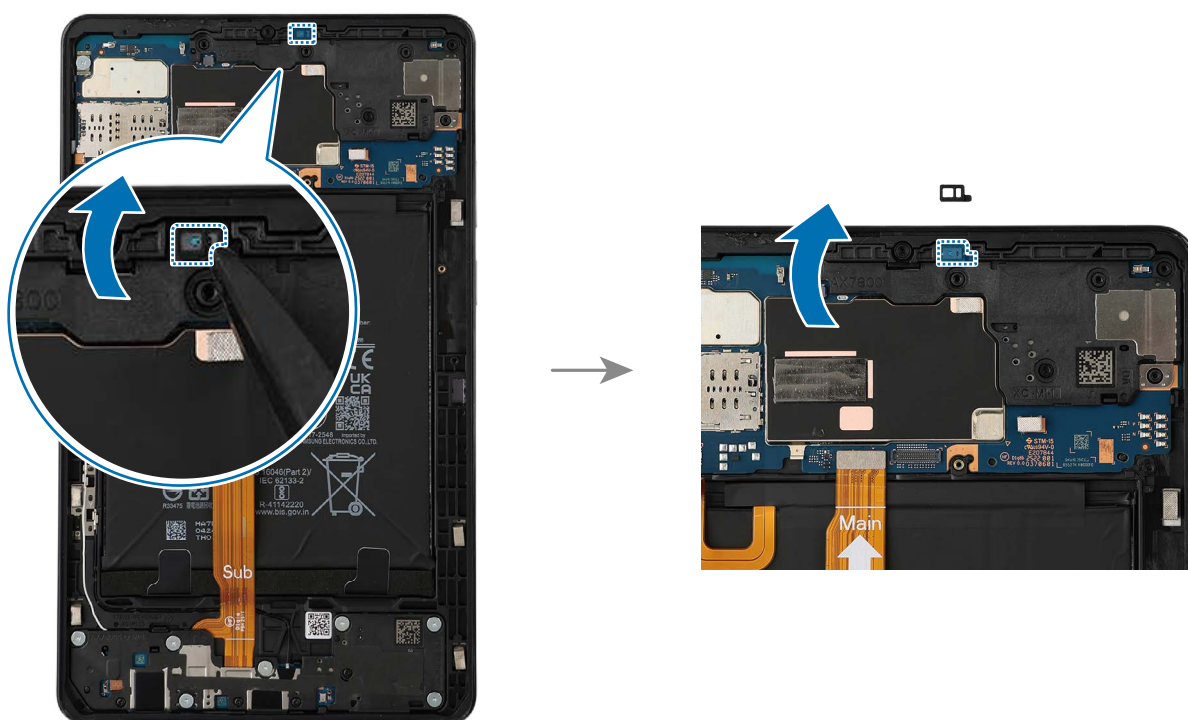
- 3 Using the tweezers, lift up on the separator groove of the side button bracket and remove it carefully.

⚠ Be careful not to break the bracket as it is very thin.



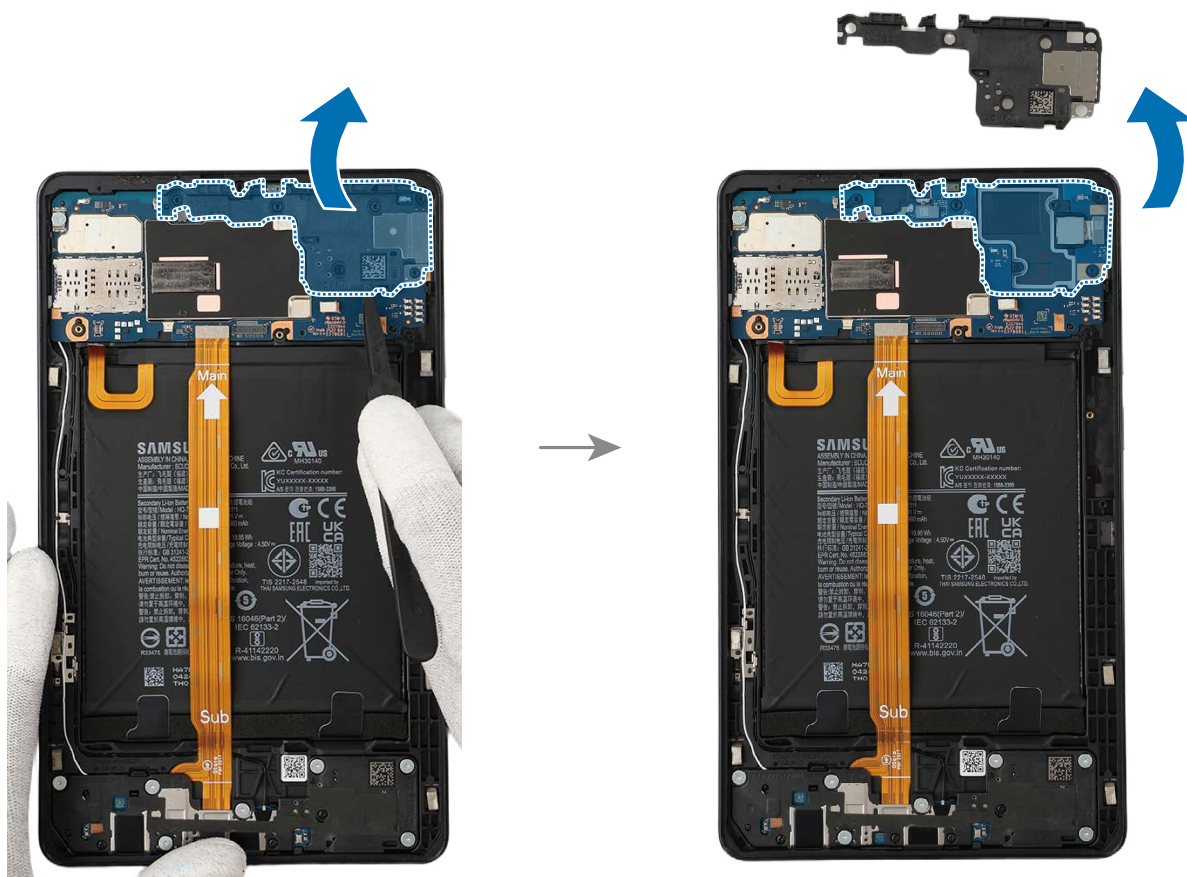
- 4 Using the tweezers, lift up the sensor rubber carefully and separate it from the device.

⚠ The sensor rubber should be used again when reassembling, so be careful not to lose it.



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

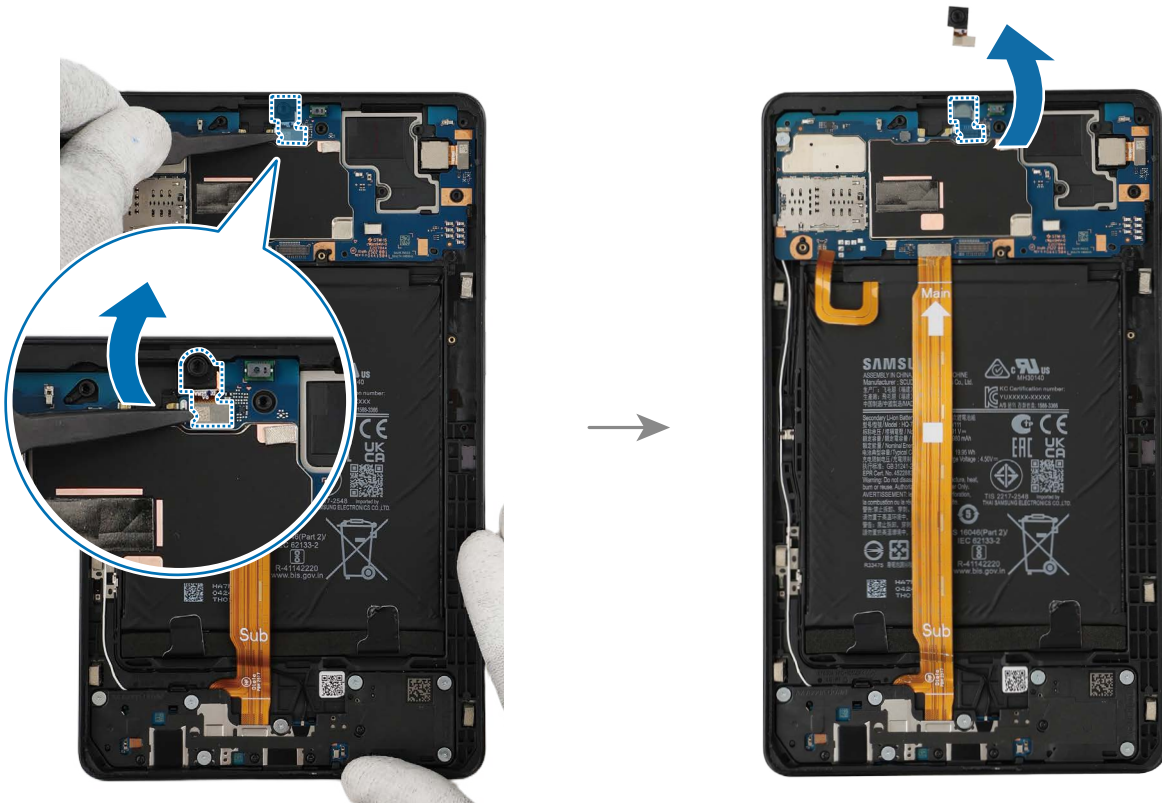
⚠ Be careful not to break the bracket as it is very thin.



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

⚠ Be careful not to damage the main board.

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

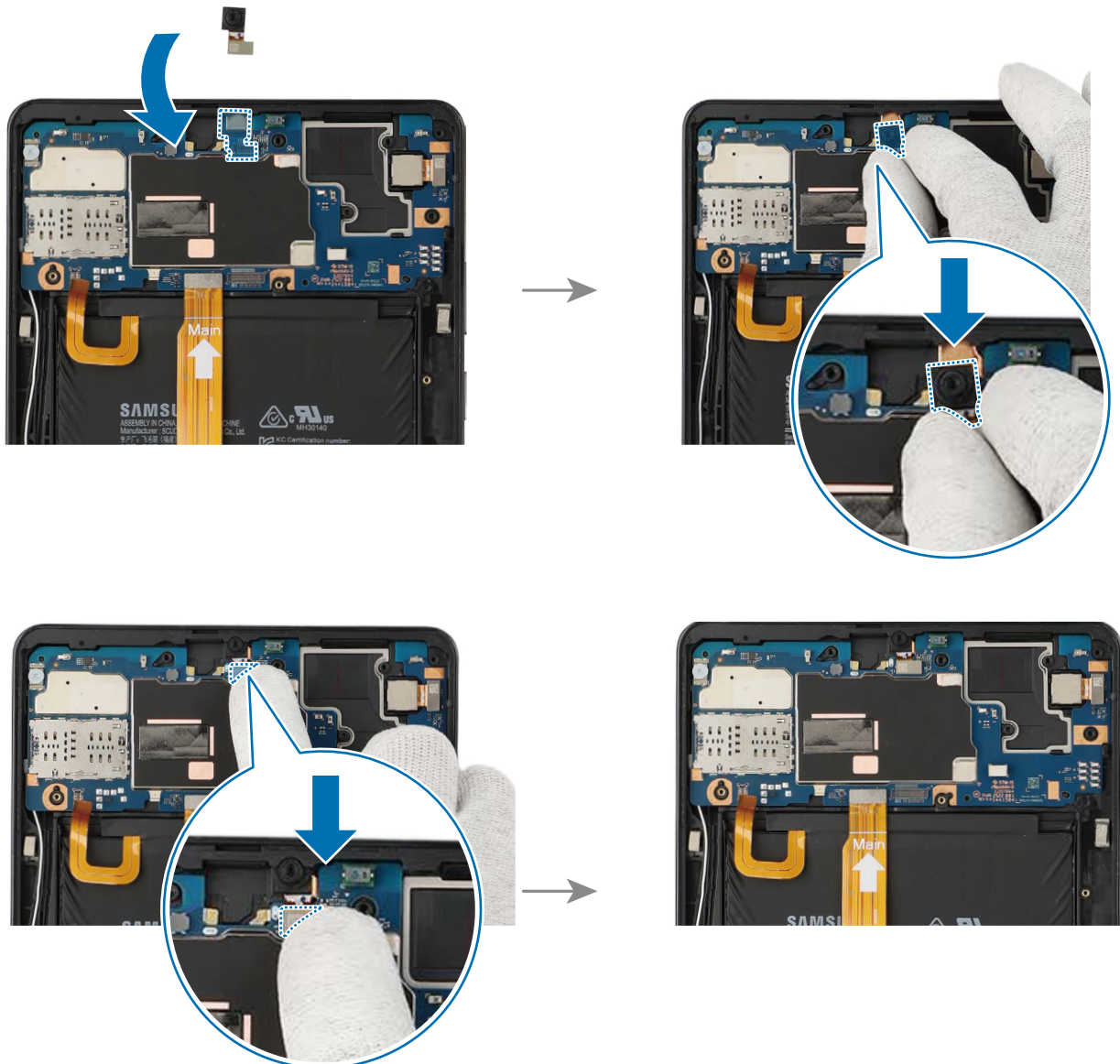


Reassembly

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

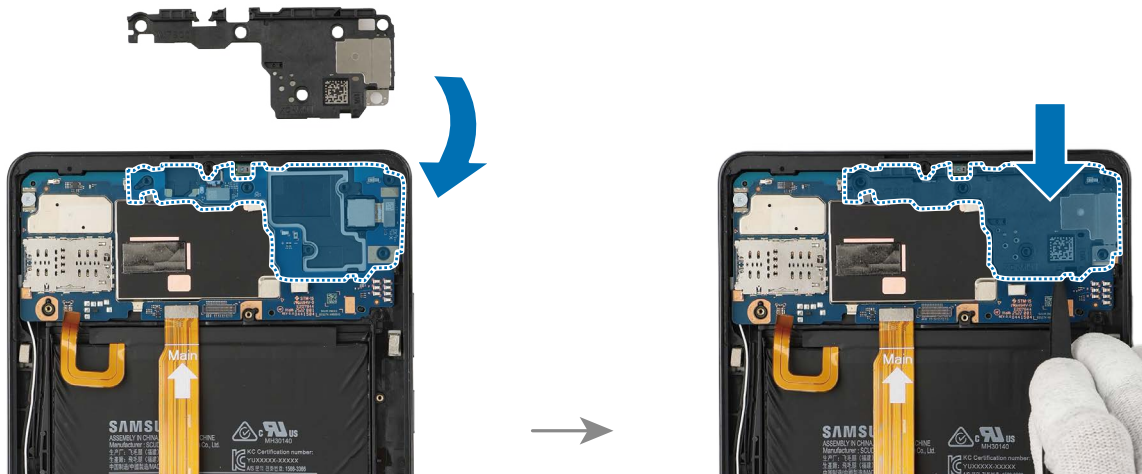
1 Using the tweezers or your fingers, place the new front camera in the camera hole so that the lens faces forward, and gently insert the front camera. Connect the camera connector carefully on the main board.

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

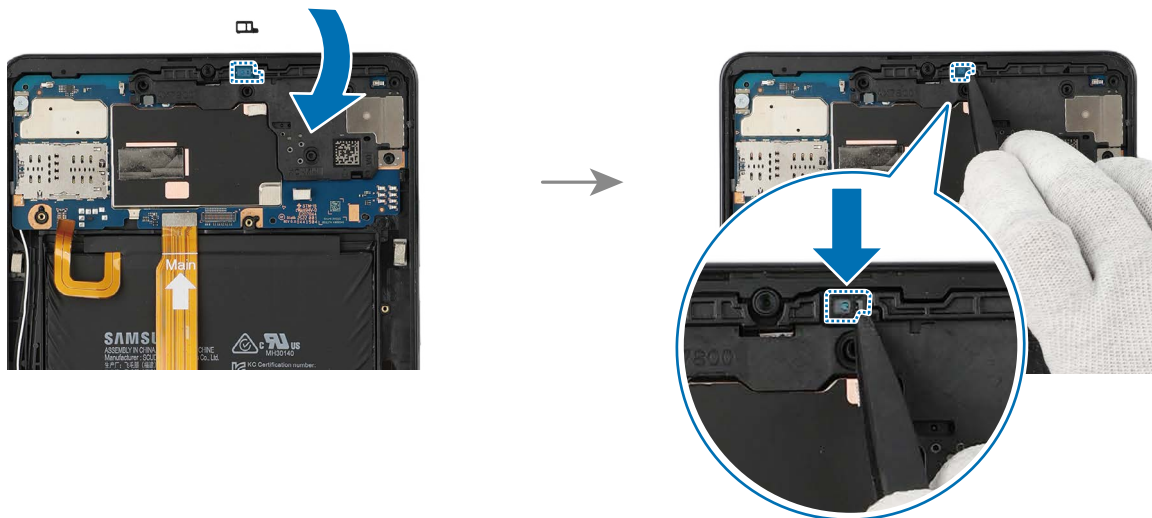


2 Using the tweezers, place the top speaker bracket to the back cover module and press down on it in its position smoothly.

- ❗ • Be careful not to damage the bracket and the near components.
- Be careful not to break the bracket as it is very thin.

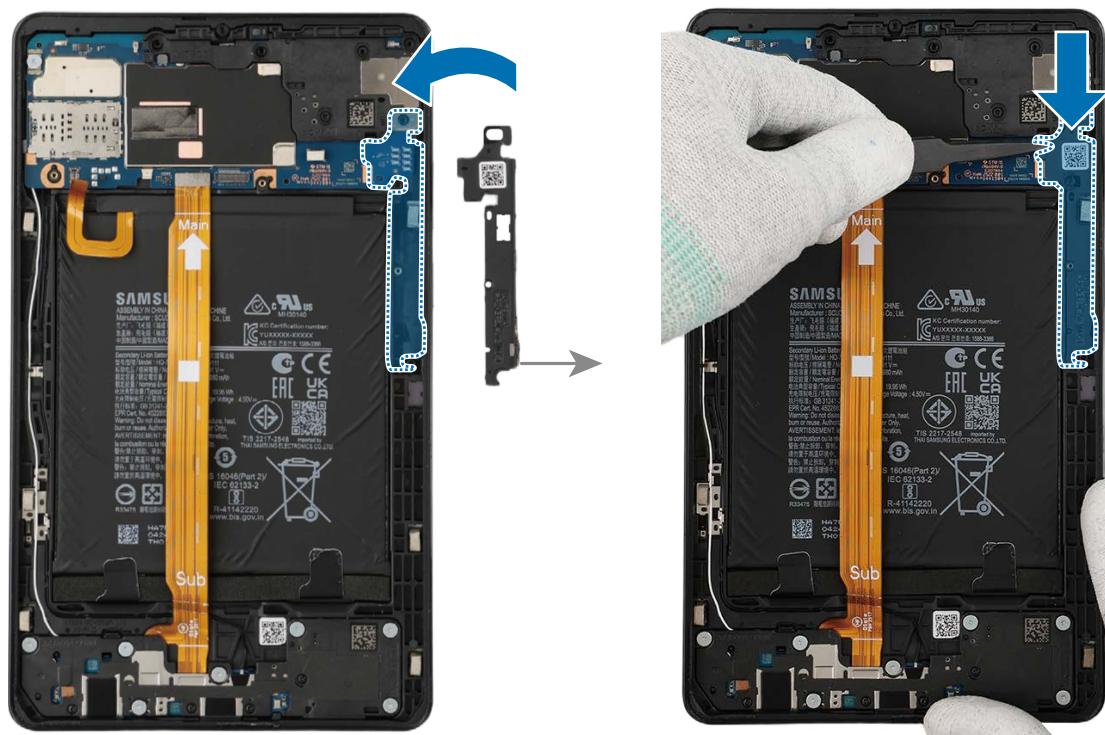


3 Using the tweezers, assemble the sensor rubber carefully from the device frame.

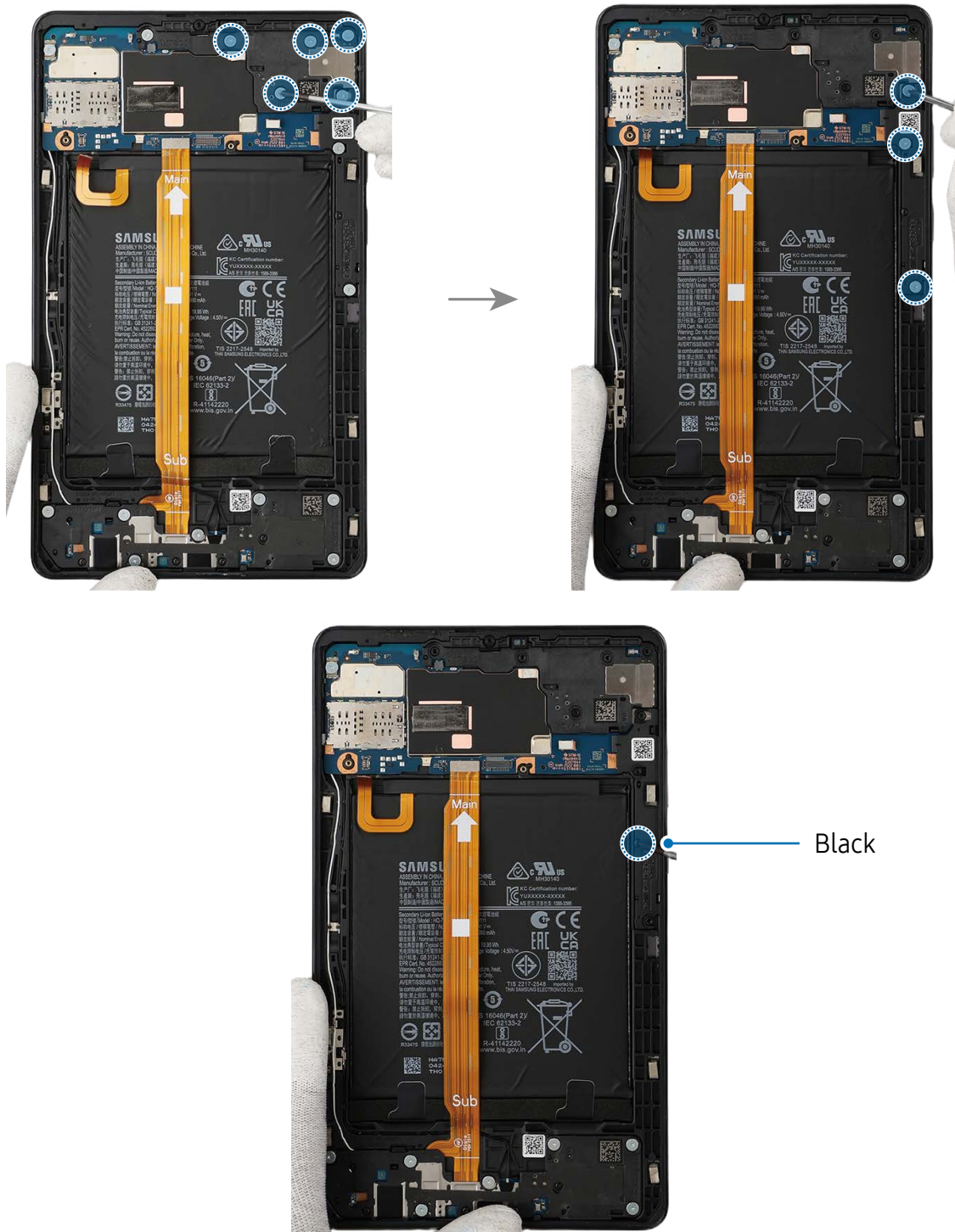


- 4 Using the tweezers, place the side button bracket to the back cover module and press down on it in its position smoothly.

⚠ Be careful not to break the bracket as it is very thin.



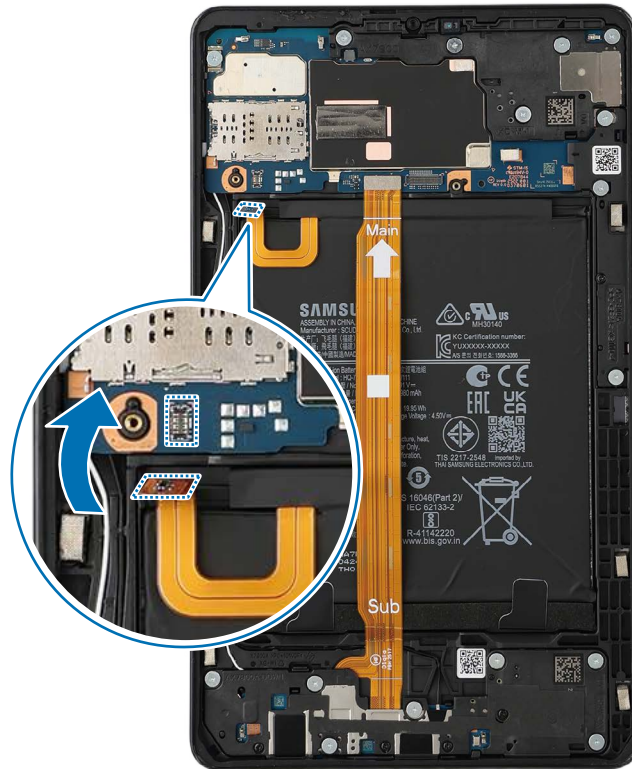
- 5 Check the screws 24269 (silver 8 ea) and 20679 (black 1 ea) at the 9 different points on the top speaker bracket and side button bracket and fasten them using a cross-head screwdriver.



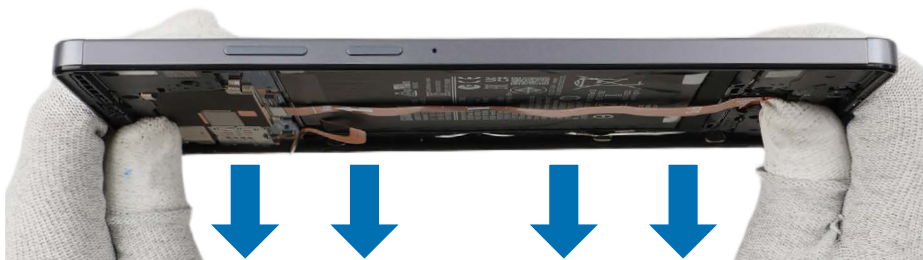
6 Connect the battery connector to the main board.

⚠ Be careful not to damage the battery.

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



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



👉 Reassemble the [Screen](#) to complete reassembly.

Rear Camera

Disassembly

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

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



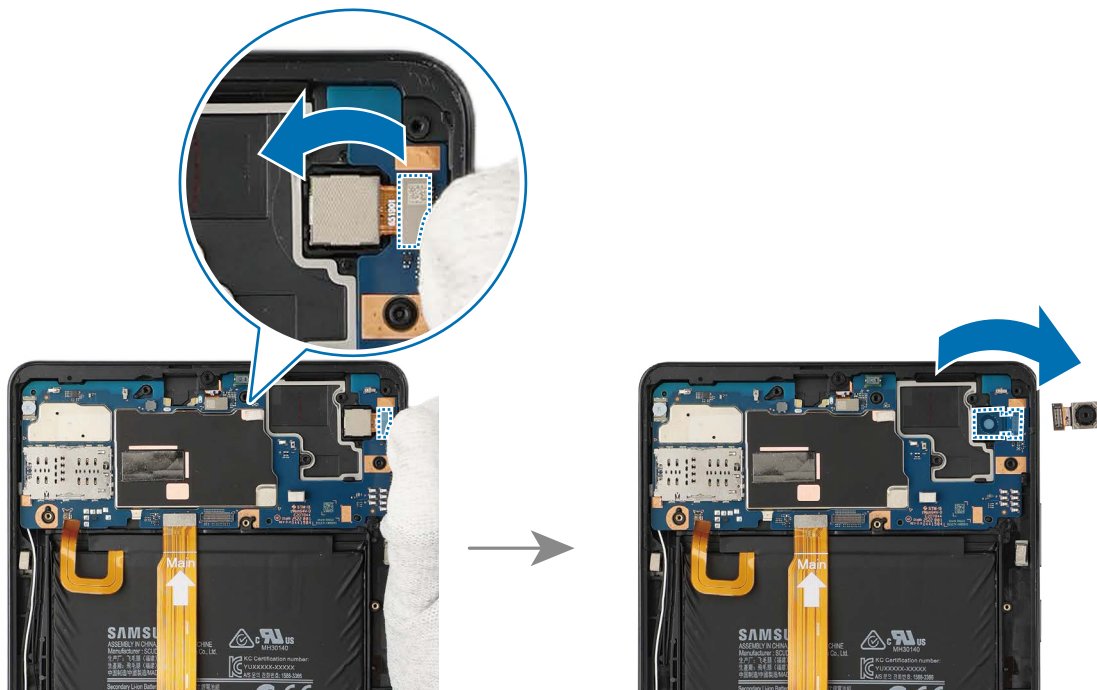
- 2 Using the tweezers or your fingers, disconnect the rear camera connector from the main board and remove the rear camera carefully from the device. Leave the camera lens facing up.



Be careful not to damage the main board.



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

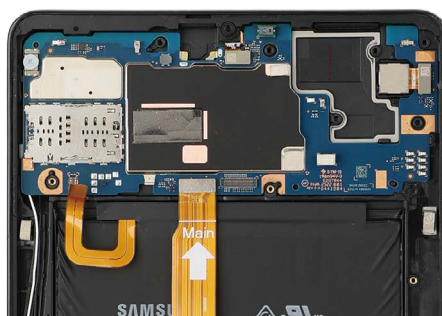
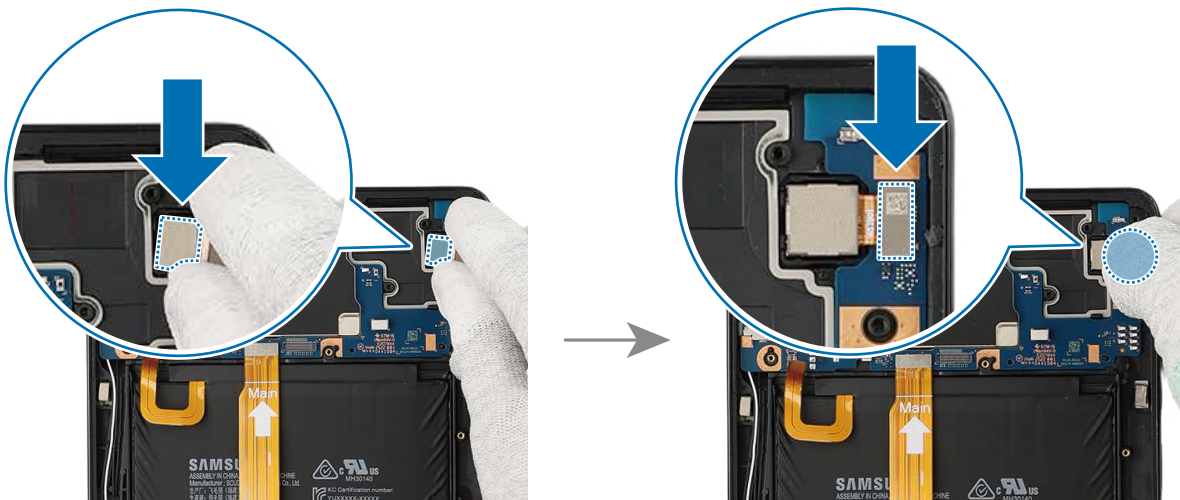


Reassembly

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

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

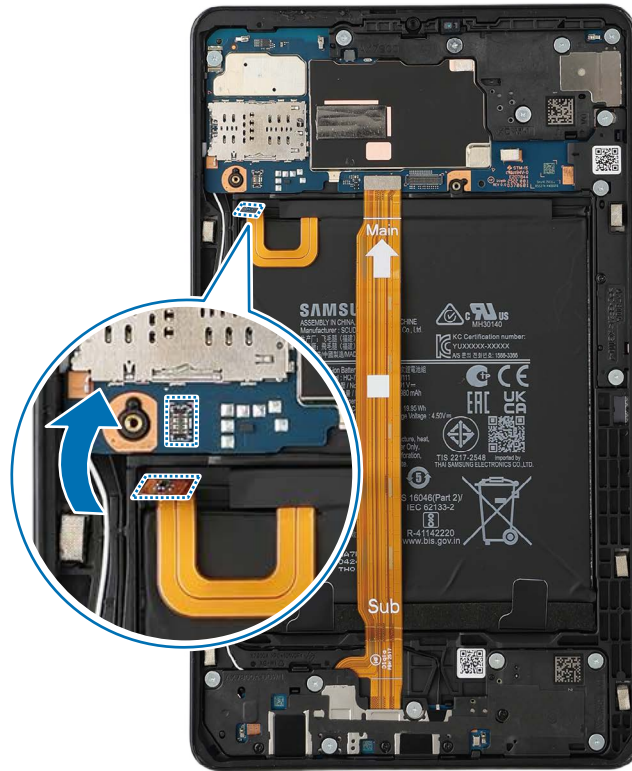
-  • Be careful not to damage the camera lens and the near components.
- Be careful not to damage the main board.
- Be careful not to damage and scratch the camera module.



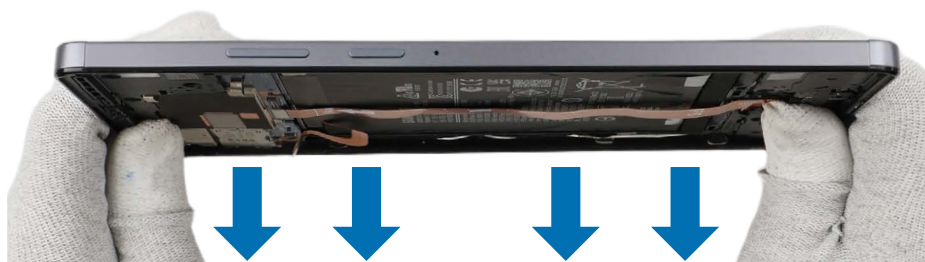
- 2 Check for the reassembly steps of the [Front Camera](#) and assemble the bracket and completely reassemble the battery connector.

⚠ Be careful not to damage the battery.

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



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



📌 Reassemble the [Screen](#) to complete reassembly.

Charging Port and Microphone

 The microphone is built into the charging port module.

Disassembly

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

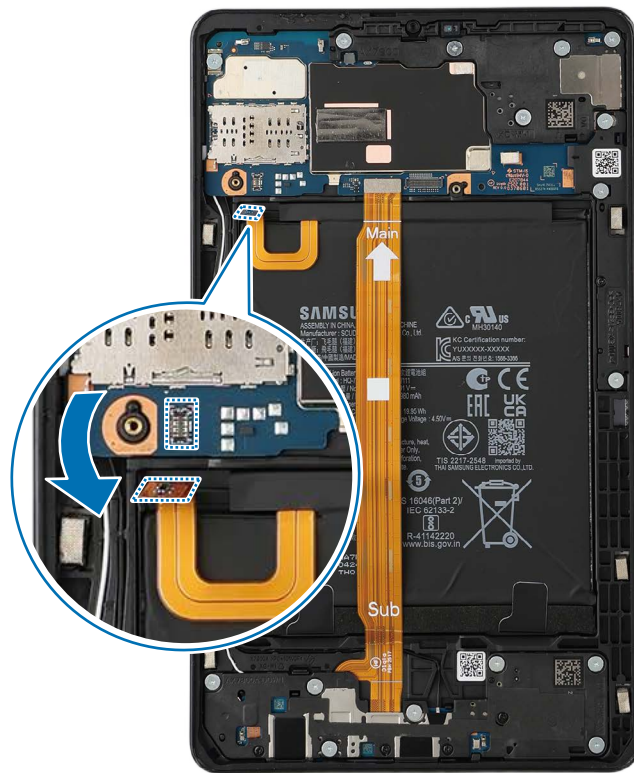
1 Using the tweezers, disconnect the battery connector first from the main board.



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



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



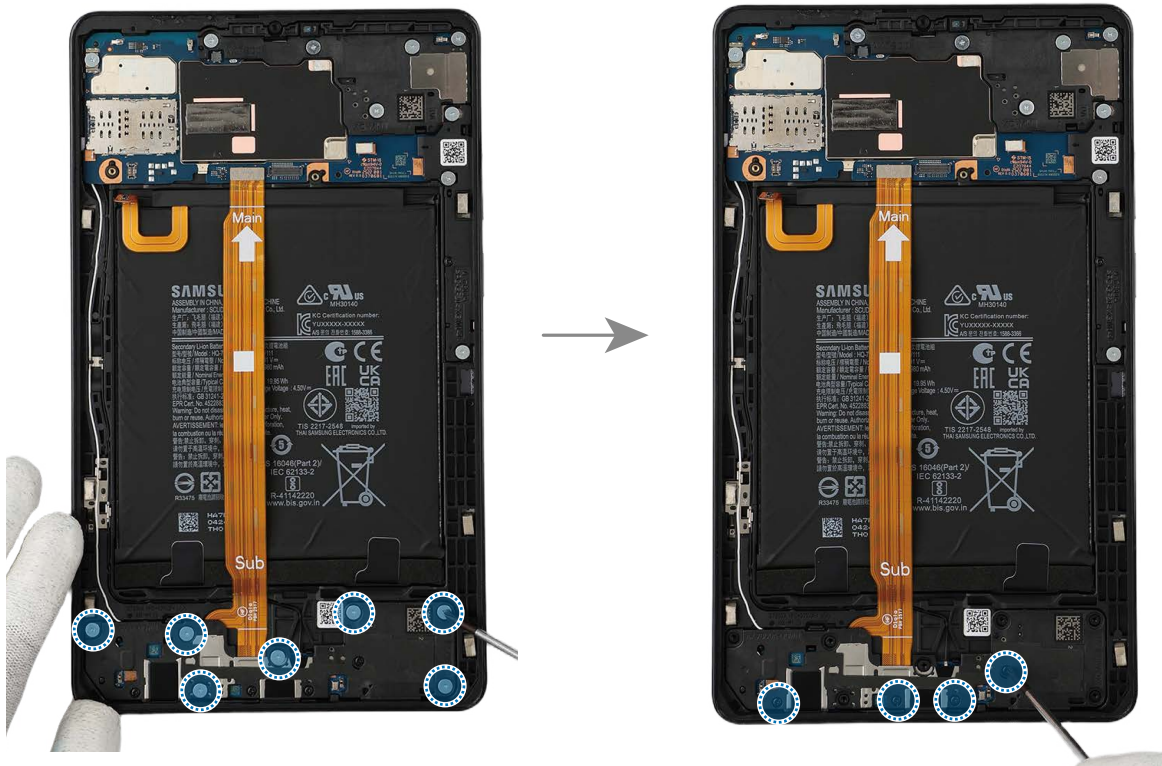
2 Check the 11 screws (silver 7 ea + black 4 ea) on the bottom speaker bracket and remove them using a cross-head screwdriver.



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

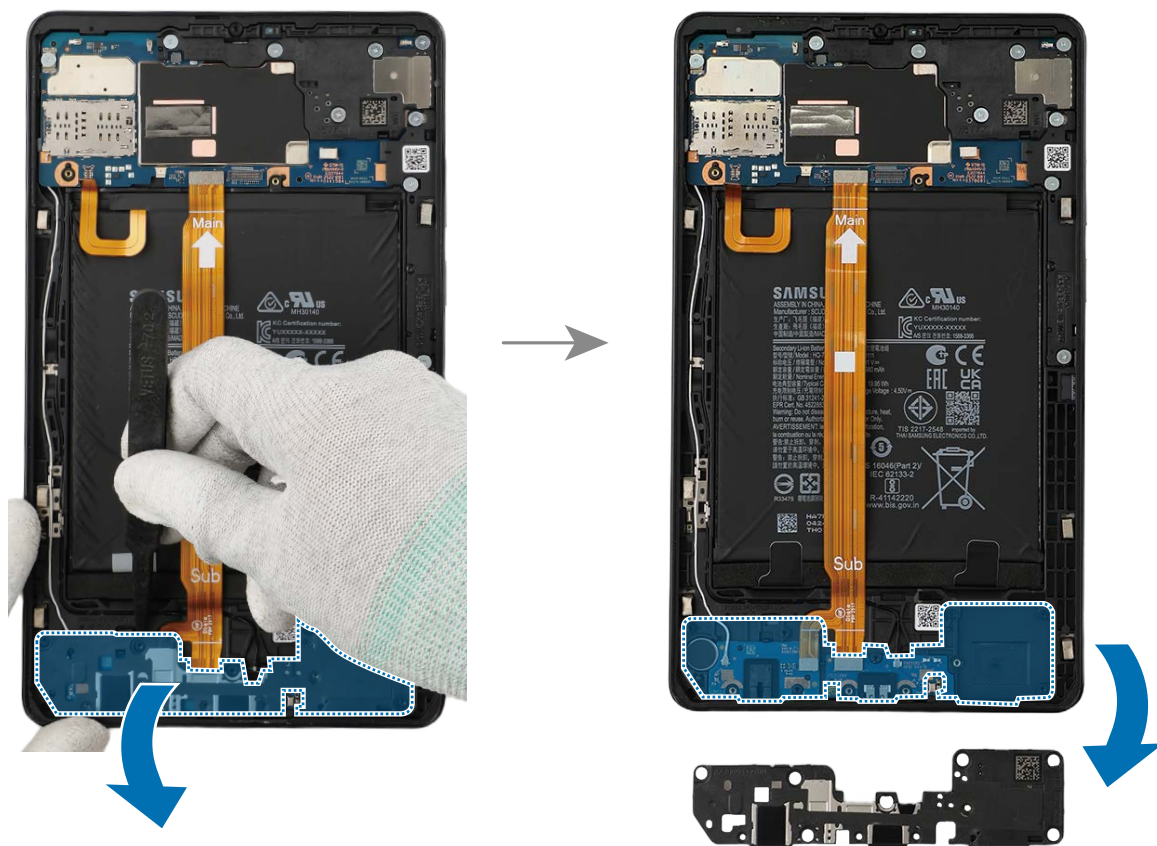


Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



3 Using the tweezers, remove the bottom speaker bracket completely.

⚠ Be careful not to break the bracket as it is very thin.

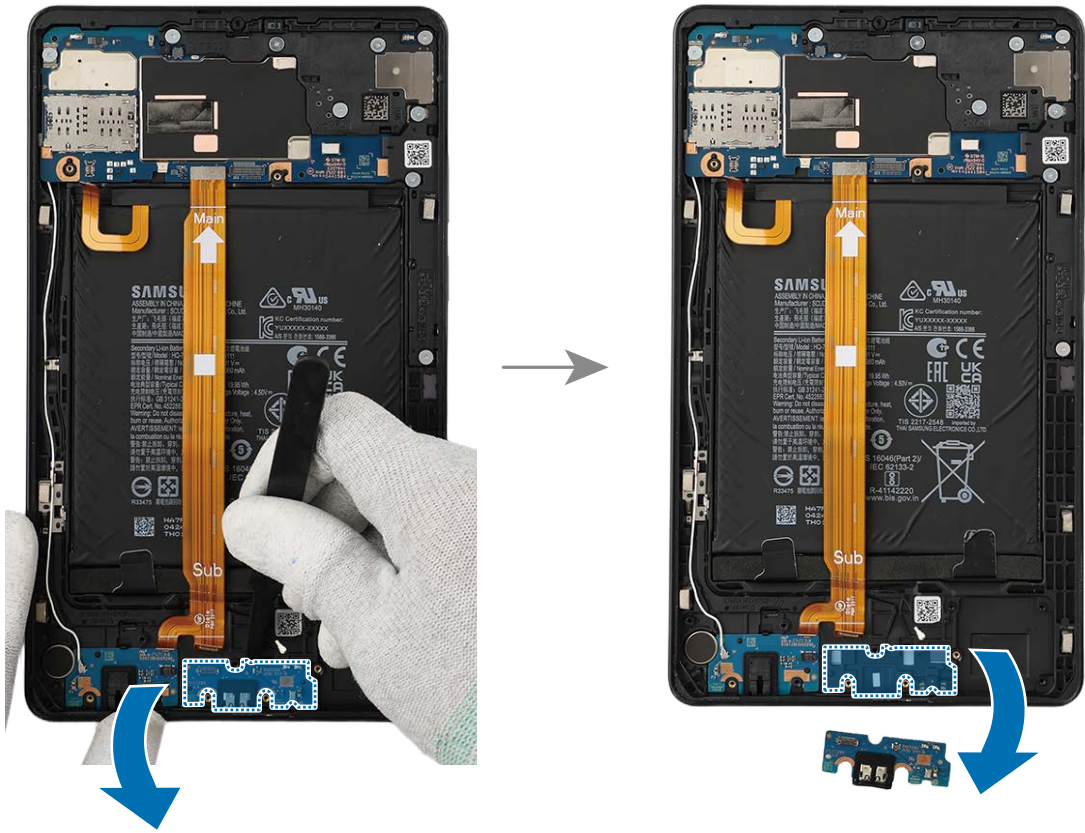
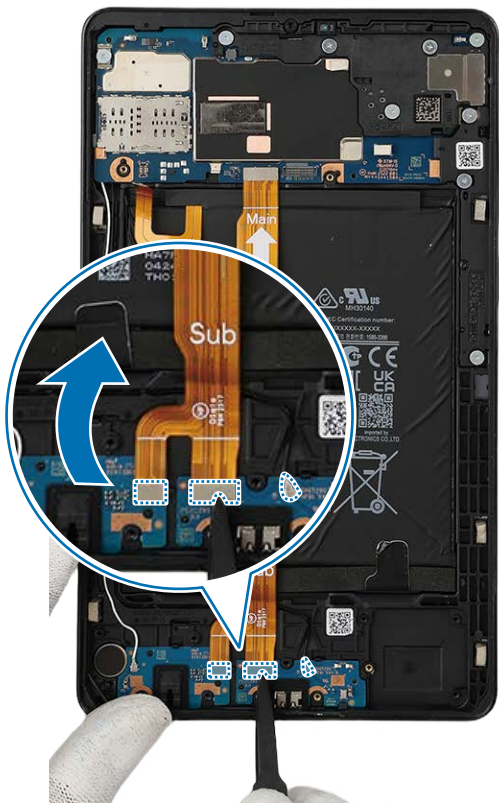


4 Using the tweezers, disconnect 2 connectors from the PBA. For the LTE devices, disconnect the additional 1 coaxial cable connector (Black). And then, lift up on the separator groove of the USB PBA, and remove the USB PBA carefully.

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



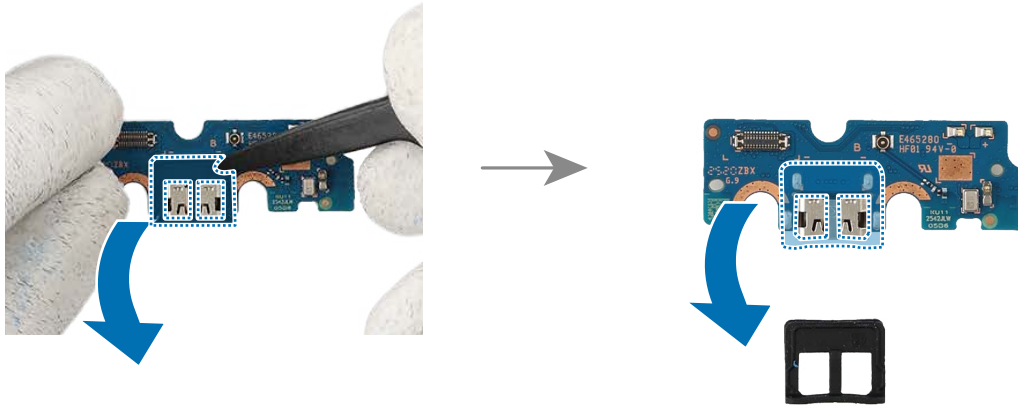
- The 1 coaxial cable (Black) is only available for the LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



5 Using the tweezers, separate the USB rubber carefully from the USB PBA.



- Be careful not to damage the PBA and the near components.
- The USB rubber should be used again when reassembling, so be careful not to lose it.

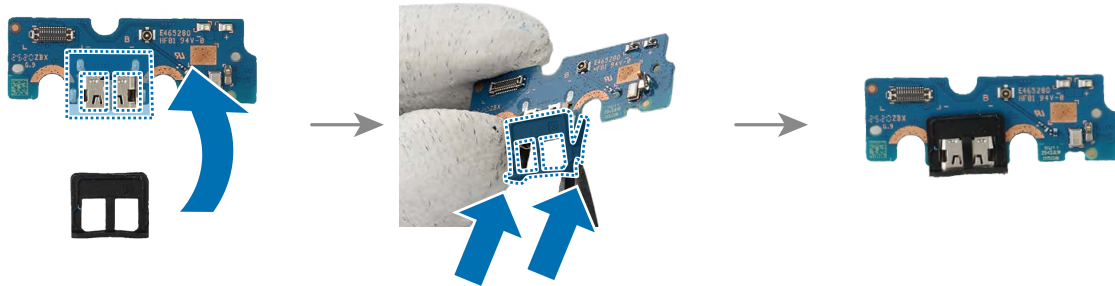


Reassembly

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

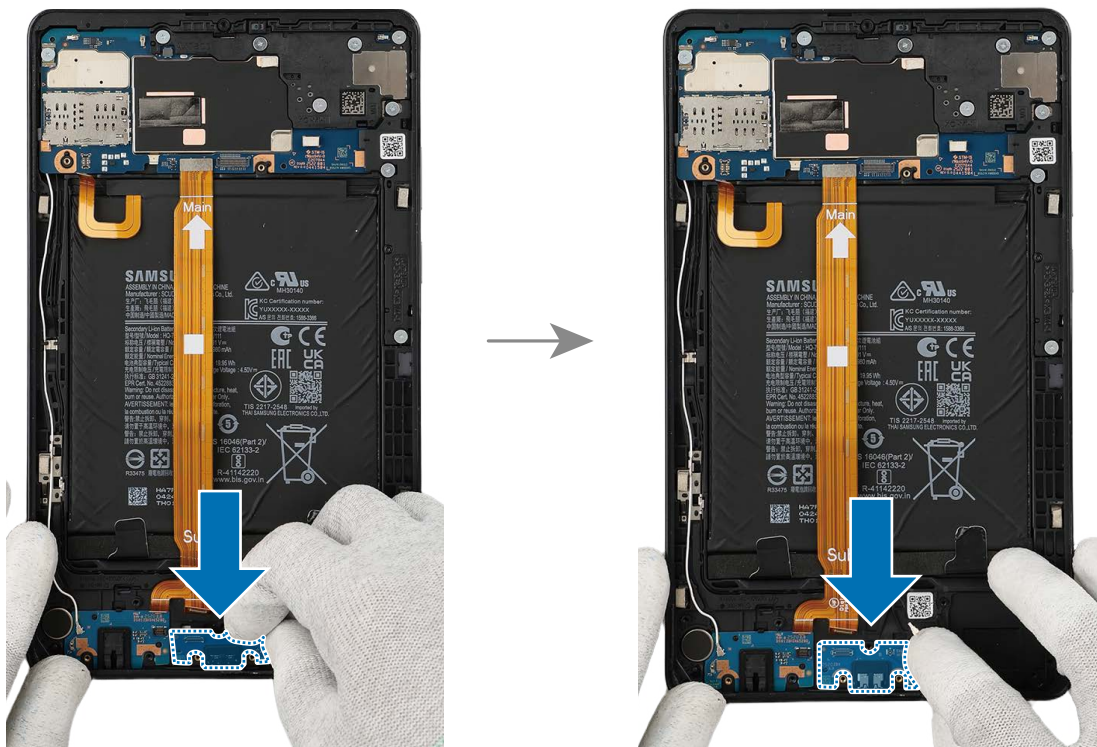
1 Using tweezers, assemble the USB rubber carefully to the new USB PBA.

- ⚠** Be careful not to damage the PBA and the near components.



2 Using the tweezers or your fingers, insert the USB PBA to the bottom device frame of device, and press down on it in its position smoothly.

- ⚠** Be careful not to damage the PBA and the near components.



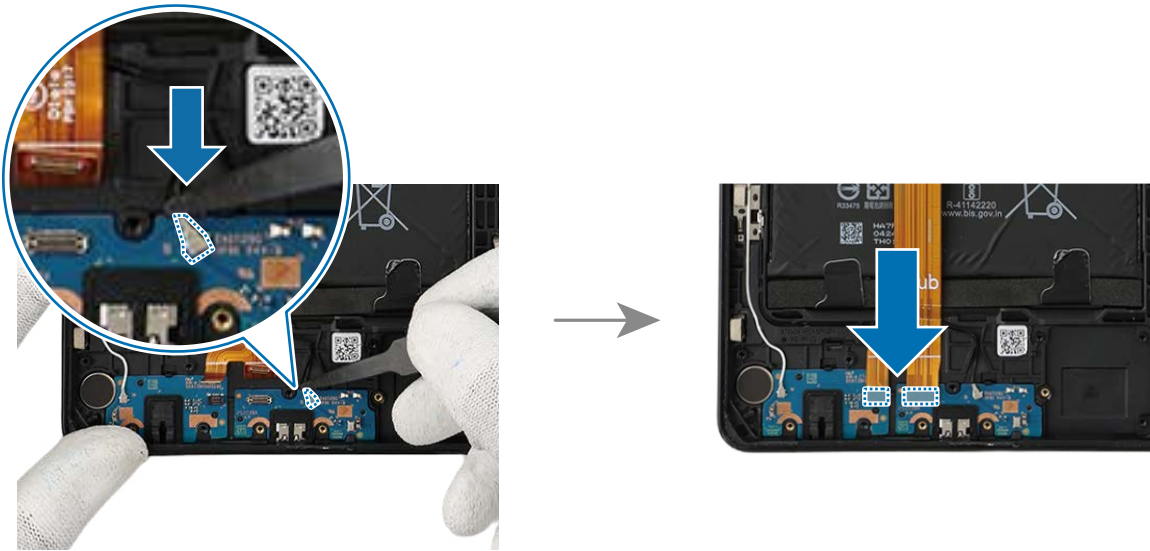
3 Using the tweezers, connect the 2 connectors connector to the PBA. For the LTE devices, carefully connect the cable (Black) to the USB PBA.



- The 1 coaxial cable (Black) is only available for the LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



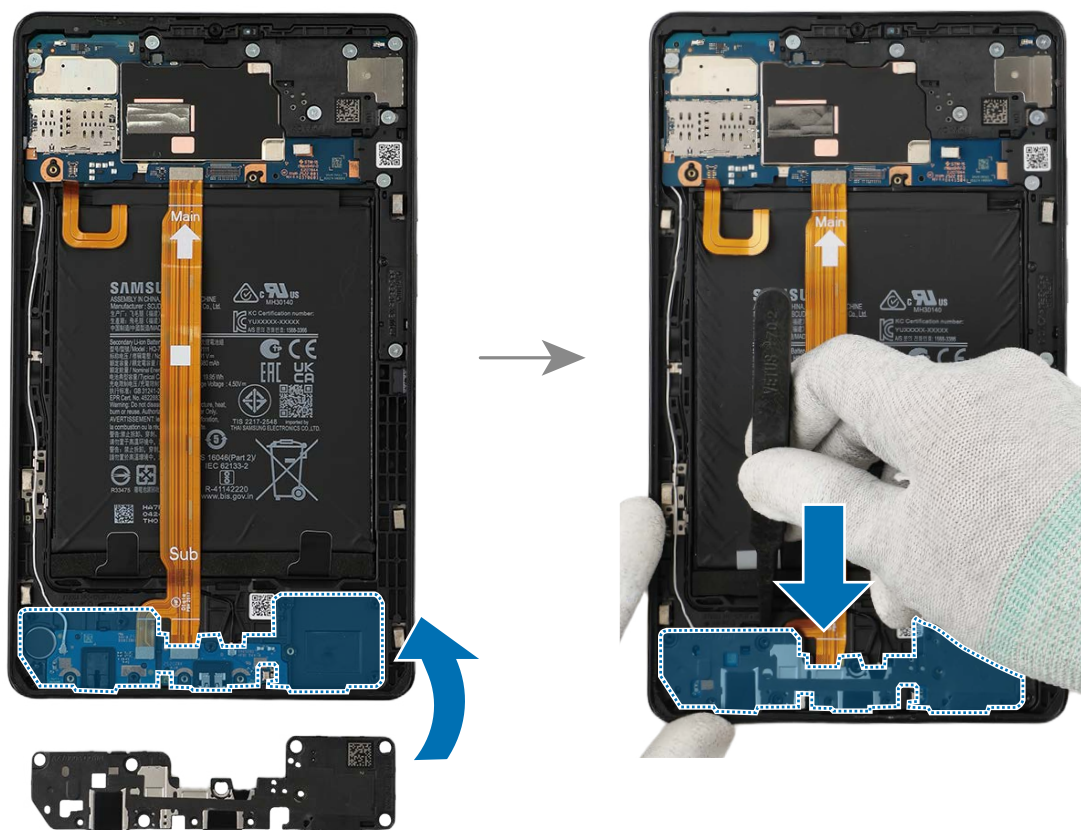
- Be careful not to damage the cable.
- Be careful not to damage the PBA and near components.



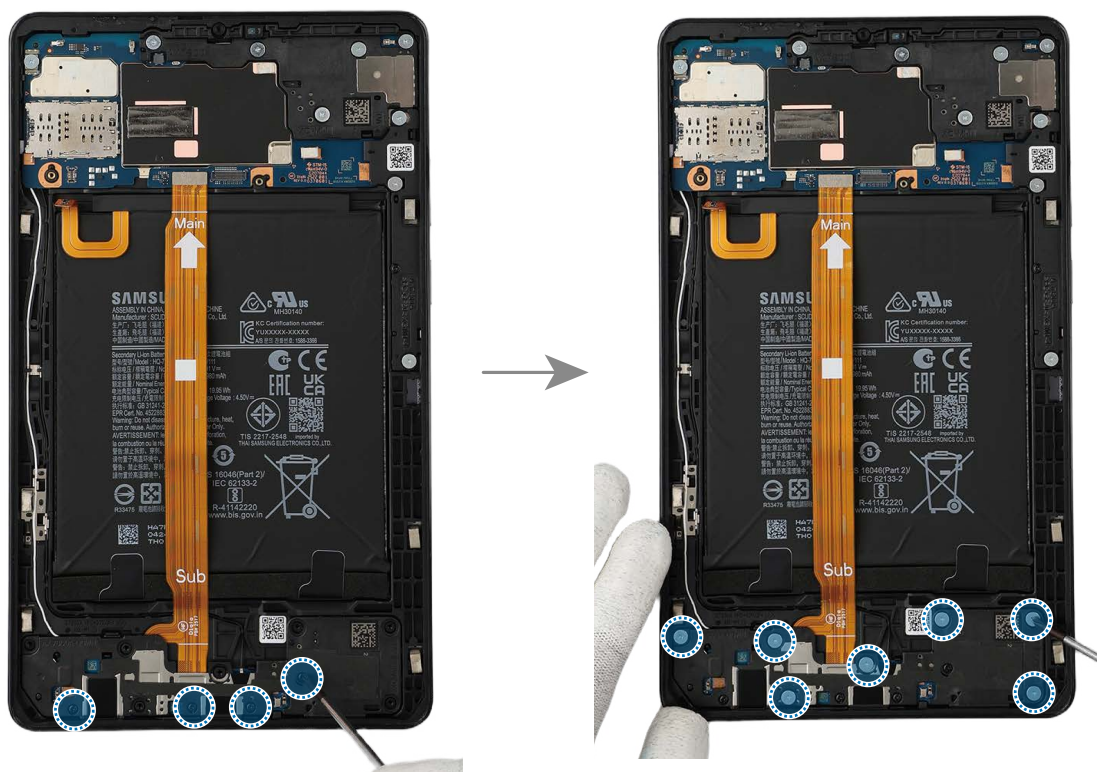
4 Using the tweezers, insert the bottom speaker bracket to the bottom device frame of device, and press down on it in its position smoothly.



- Be careful not to damage the cable.
- Be careful not to damage the PBA and near components.
- Be careful not to break the bracket as it is very thin.



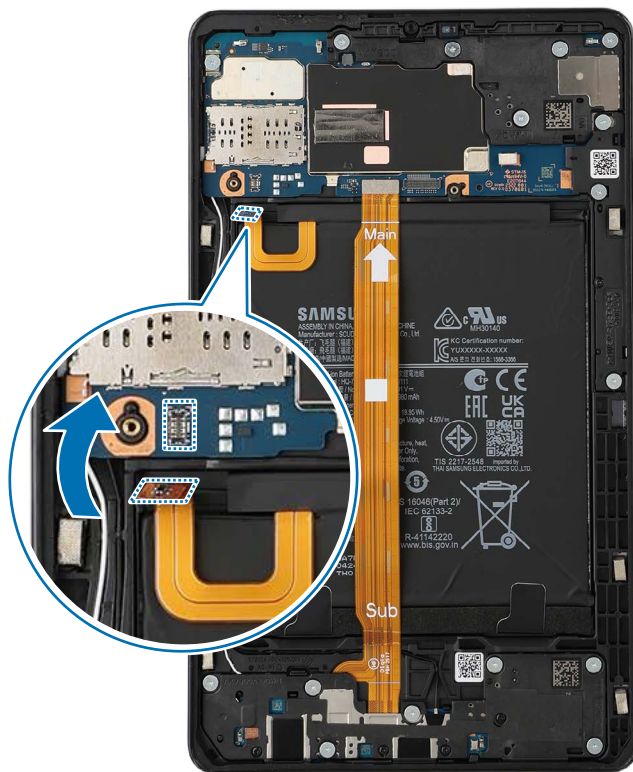
- 5 Check the screws 24269 (silver 7 ea) and 20679 (black 4 ea) at the 11 different points on the bottom speaker bracket and fasten them using a cross-head screwdriver.



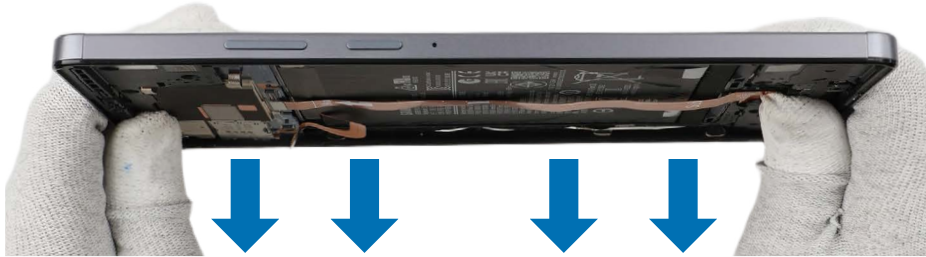
6 Connect the battery connector to the main board.

⚠ Be careful not to damage the battery.

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



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



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

Headphone Jack

Disassembly

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

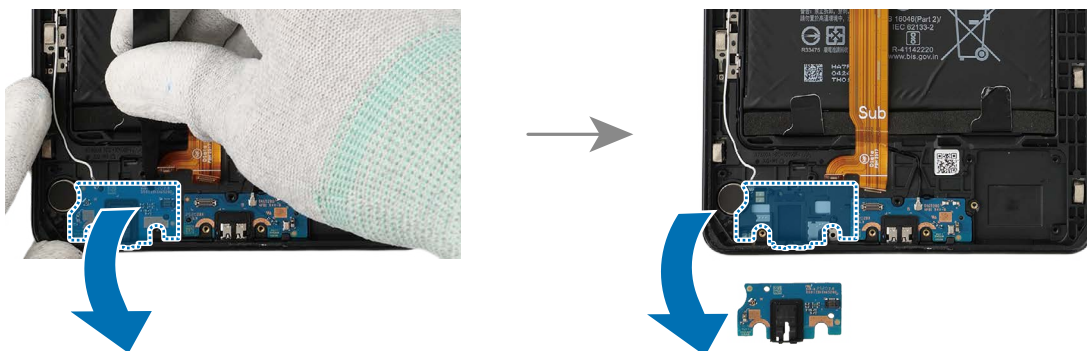
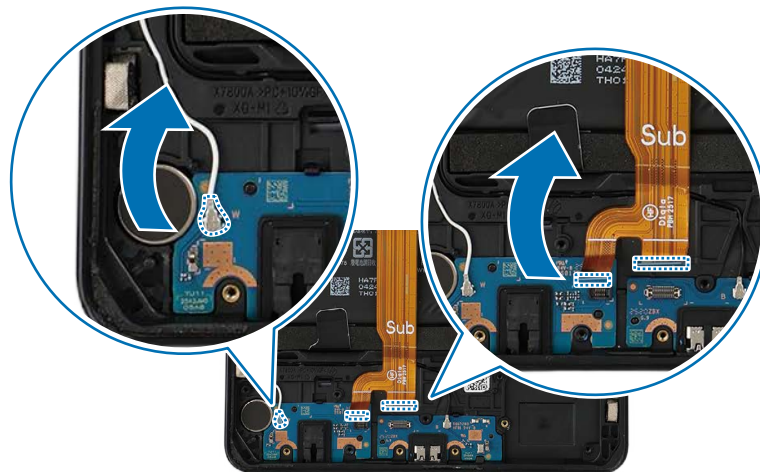
- 1 Check for the disassembly steps of the [Charging Port and Microphone](#) and completely separate up to the bottom speaker bracket.



- 2 Using the tweezers, disconnect 2 connectors from the PBA. For the LTE devices, disconnect the additional 1 coaxial cable connector (White). And then, lift up on the separator groove of the Headphone Jack PBA, and remove the carefully.

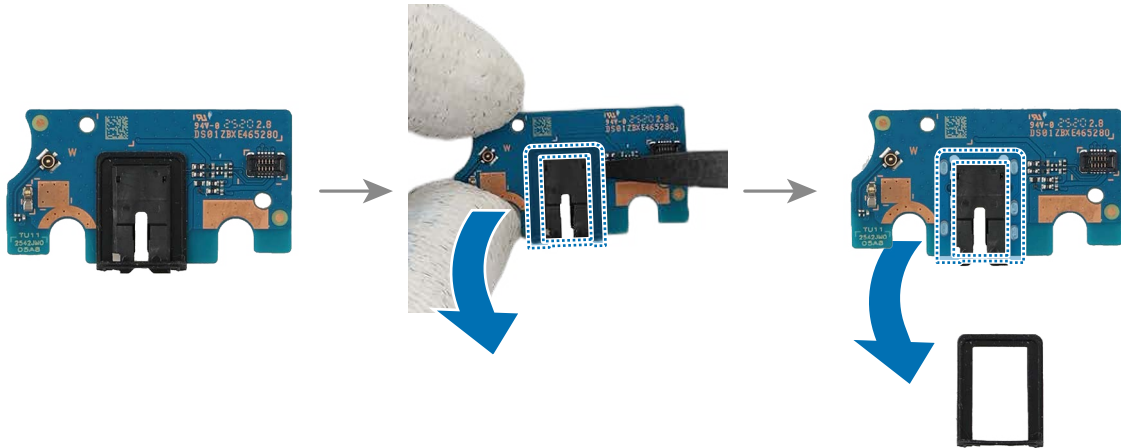
⚠ Be careful not to damage the PBA and the near components.

- ✍ The 1 coaxial cable (White) is only available for the LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



3 Using the tweezers, separate the Headphone Jack PBA rubber carefully from the Headphone Jack PBA.

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

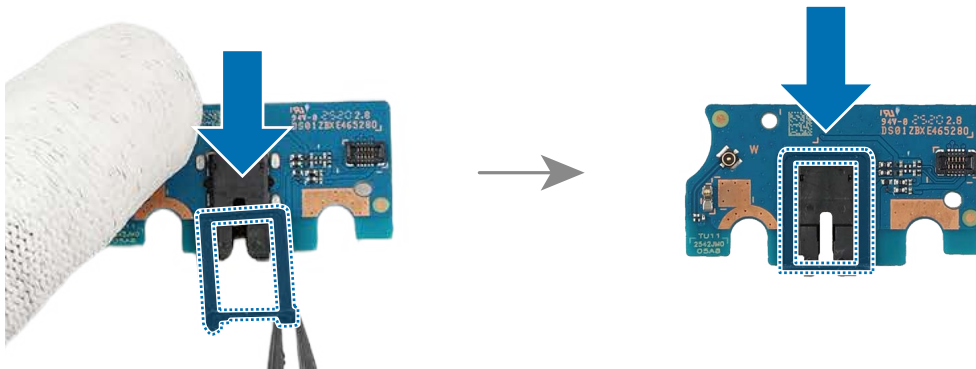


Reassembly

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

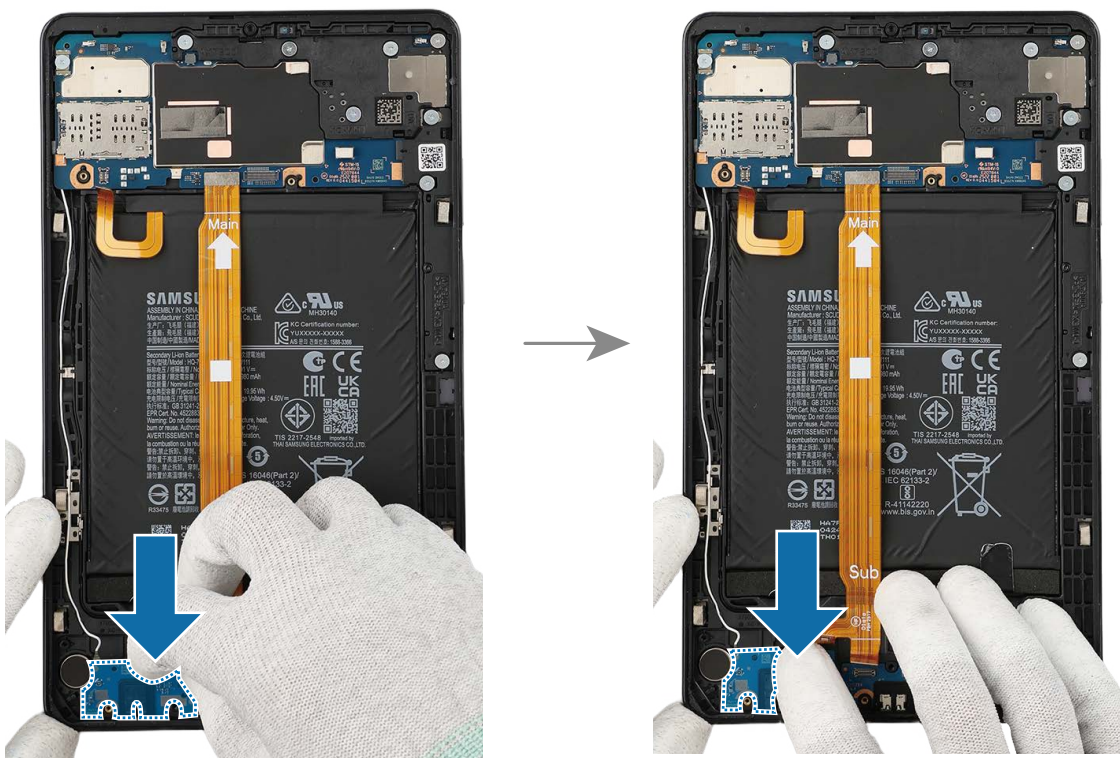
1 Using the tweezers, assemble the Headphone Jack PBA rubber carefully to the new Headphone Jack PBA.

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



2 Using the tweezers or your fingers, insert the Headphone Jack PBA to the bottom device frame of device, and press down on it in its position smoothly.

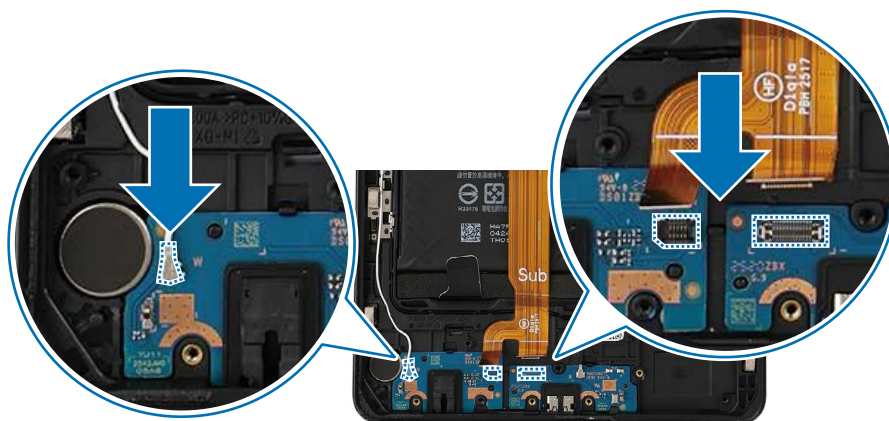
⚠ Be careful not to damage the connector and the near components.



3 Using the tweezers, connect the 2 connectors connector to the PBA. For the LTE devices, carefully connect the cable (White) to the Headphone Jack PBA.

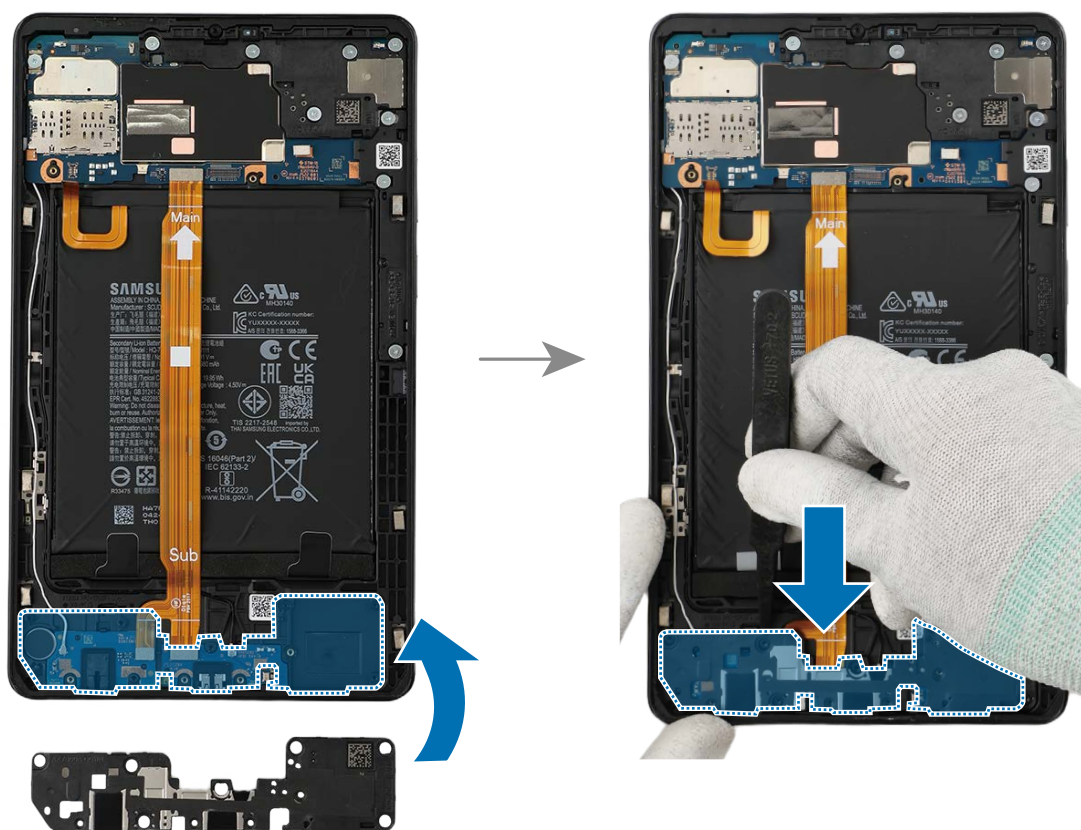
❗ Be careful not to damage the PBA and the near components.

- The 1 coaxial cable (White) is only available for the LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.

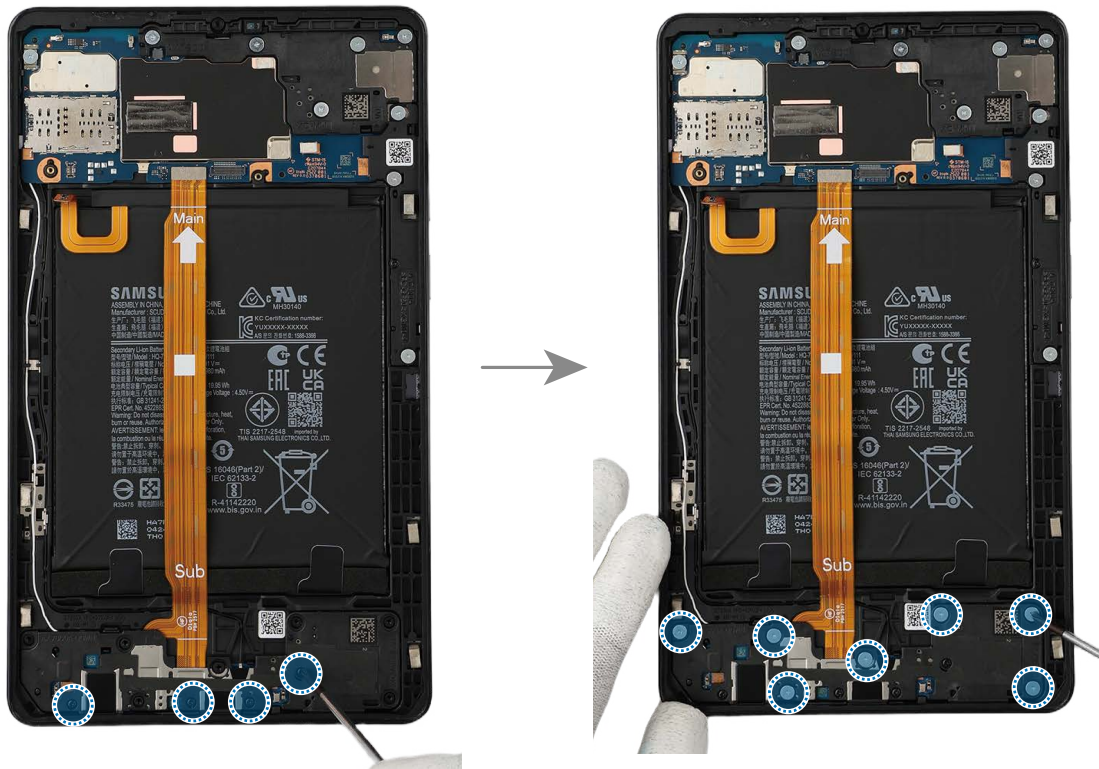


4 Using the tweezers, insert the bottom speaker bracket to the bottom device frame of device, and press down on it in its position smoothly.

❗ Be careful not to break the bracket as it is very thin.

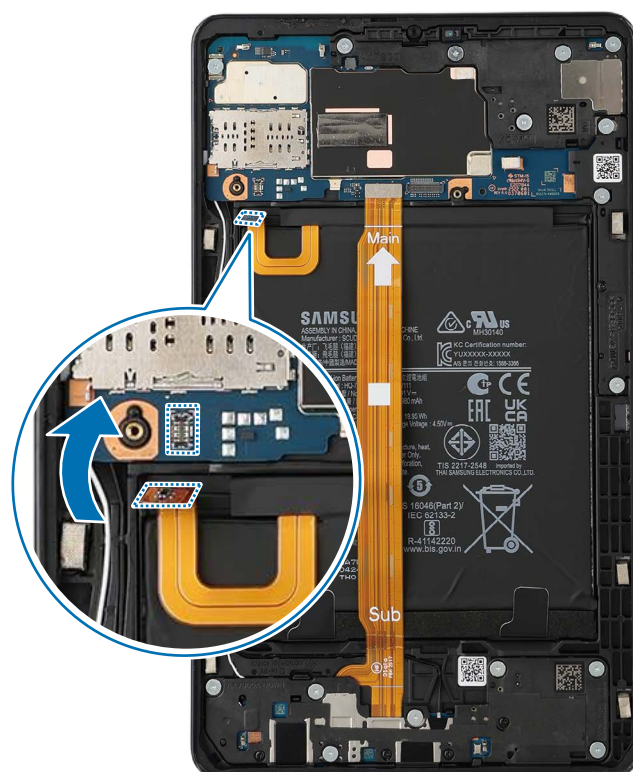


- 5 Check the screws 24269 (silver 7 ea) and 20679 (black 4 ea) at the 11 different points on the bottom speaker bracket and fasten them using a cross-head screwdriver.

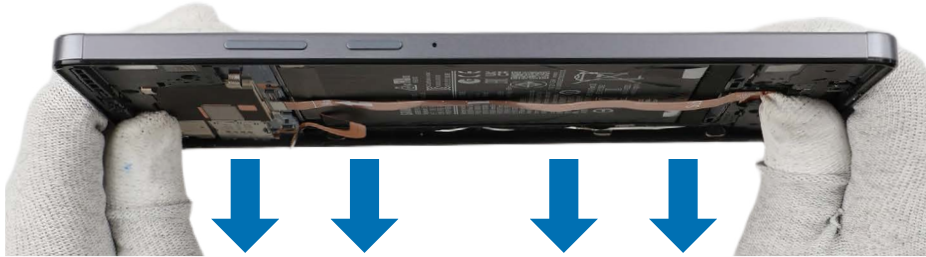


- 6 Connect the battery connector to the main board.

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



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



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

Top Speaker

Disassembly

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

1 Using the tweezers, disconnect the battery connector first from the main board.



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



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



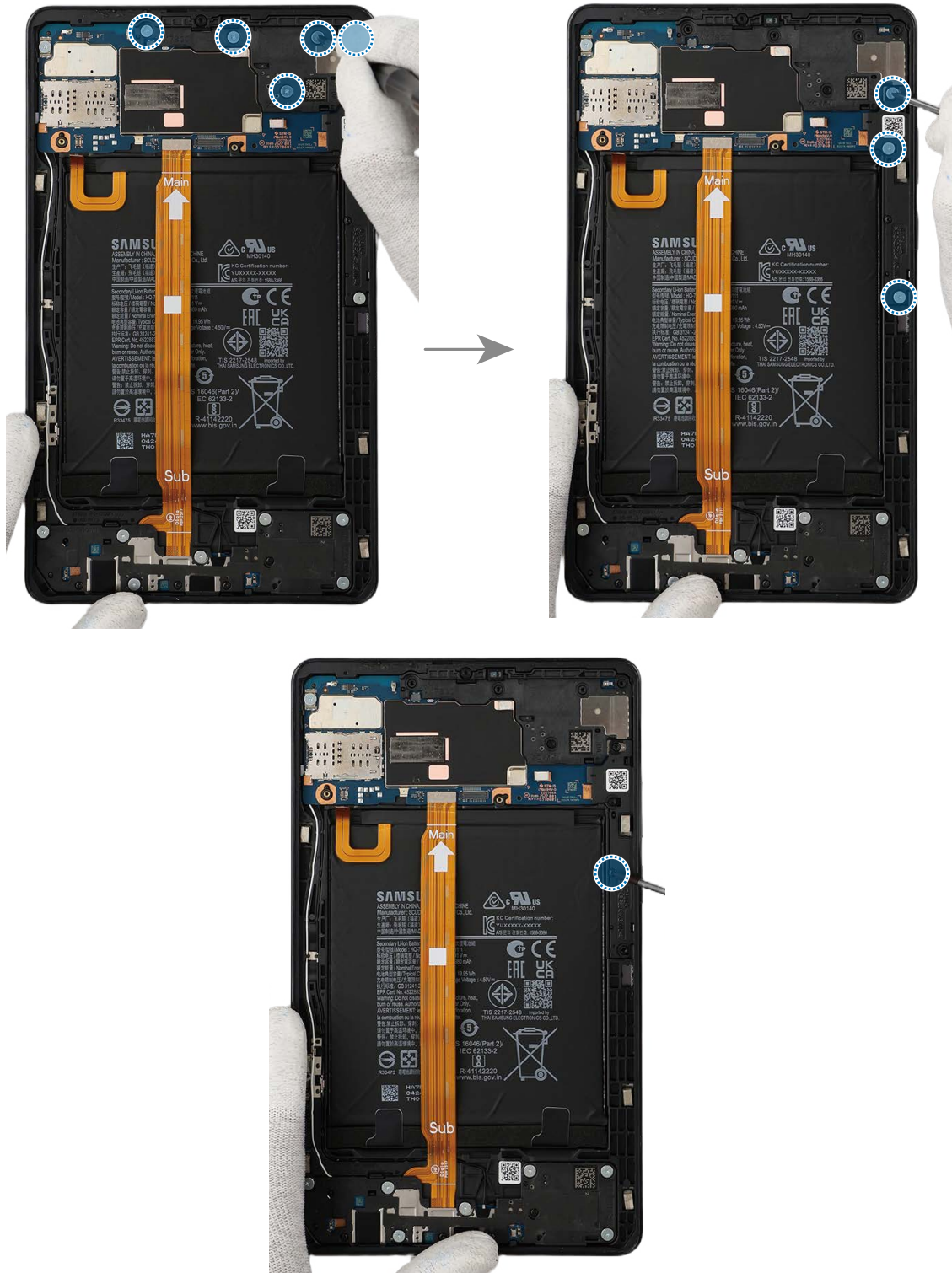
2 Check the 9 screws (silver 8 ea + black 1 ea) on the top speaker bracket and side button bracket and then remove them using a cross-head screwdriver.



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

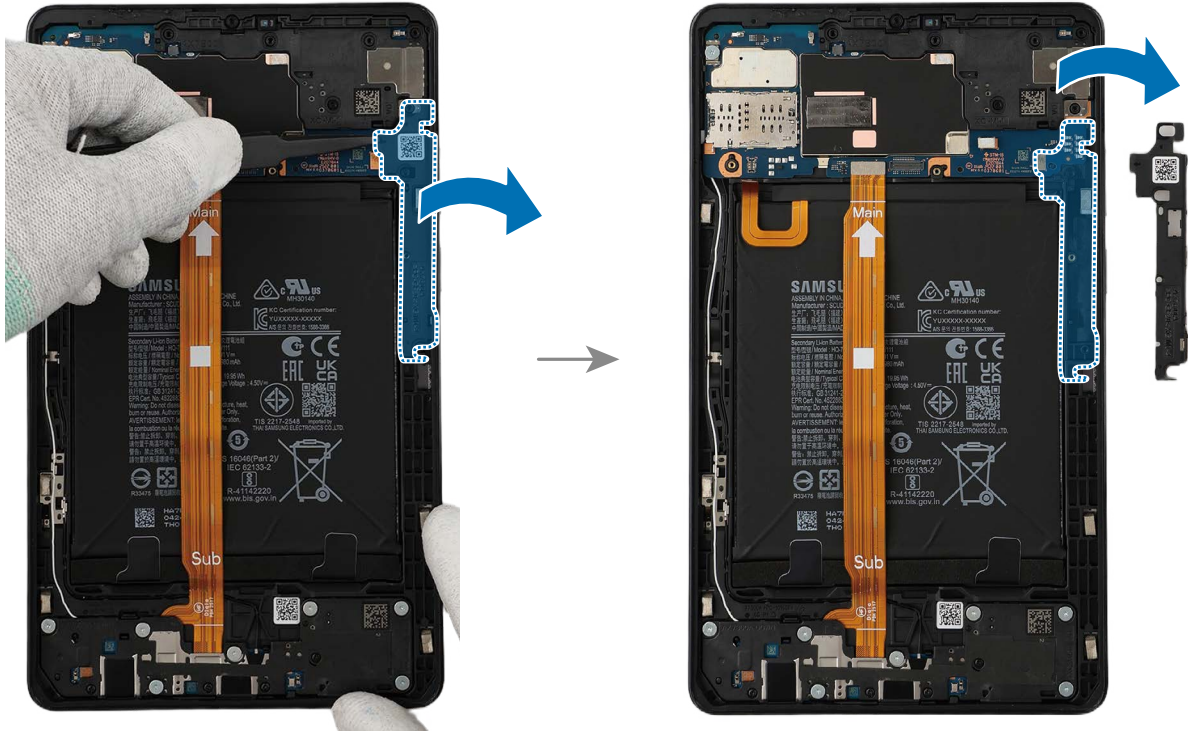


Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



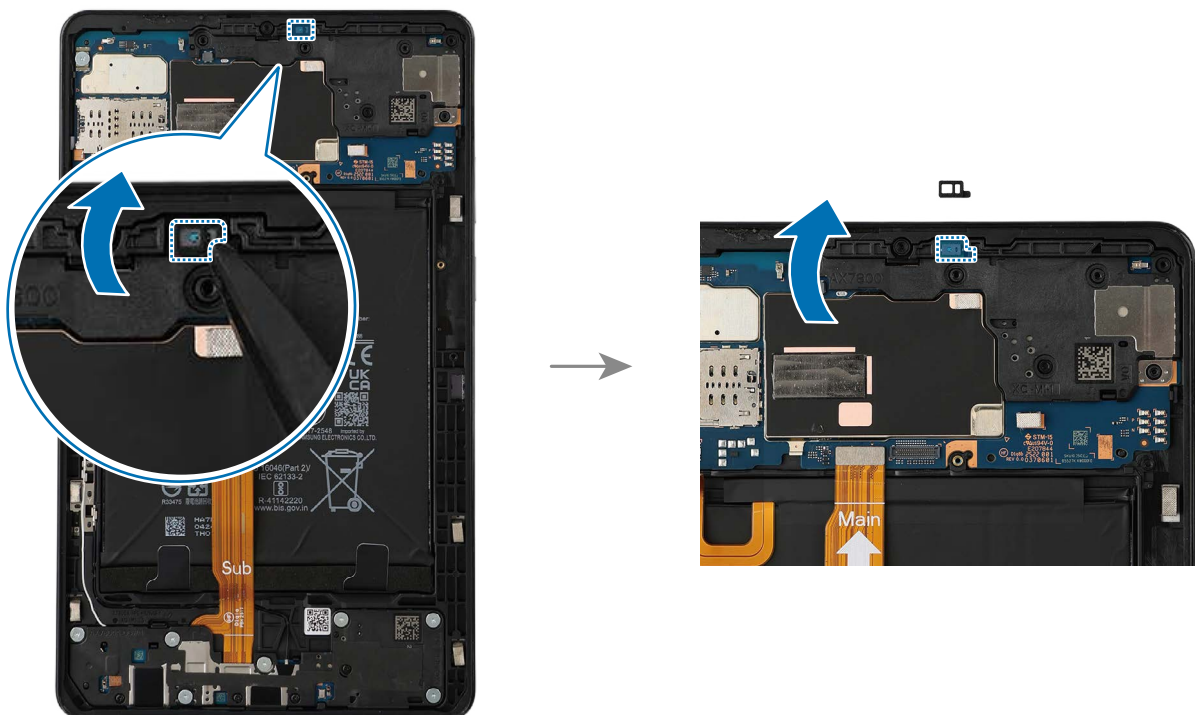
- 3 Using the tweezers, lift up on the separator groove of the side button bracket and remove it carefully.

❗ Be careful not to break the bracket as it is very thin.



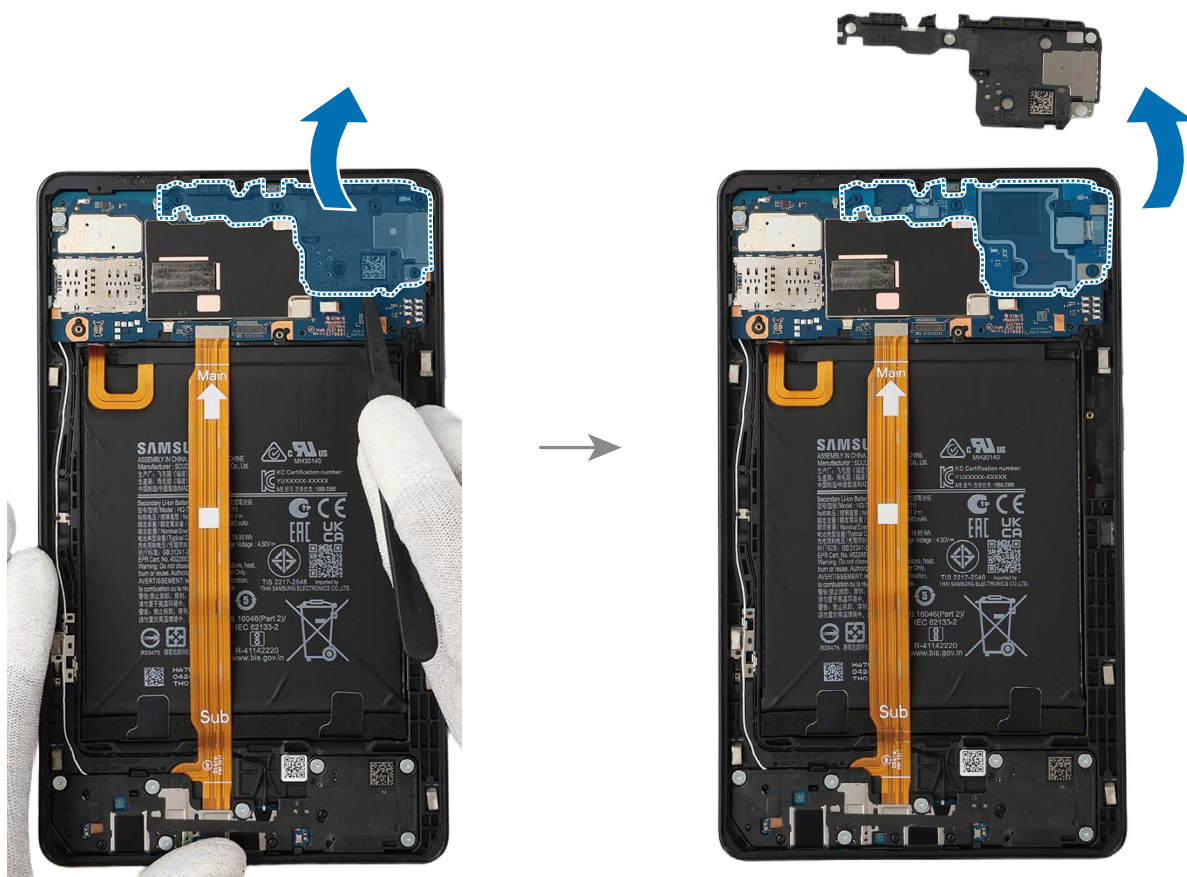
- 4 Disconnect the sensor rubber from the device using the tweezers. Leave the camera lens facing up.

❗ The sensor rubber should be used again when reassembling, so be careful not to lose it.



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

⚠ Be careful not to break the bracket as it is very thin.

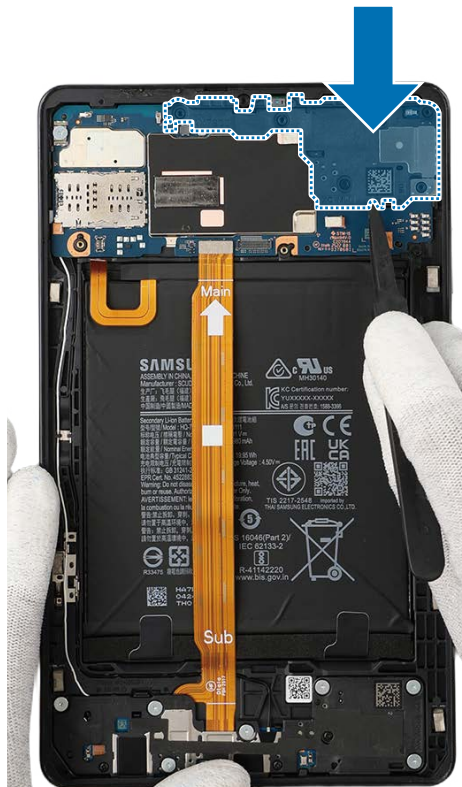


Reassembly

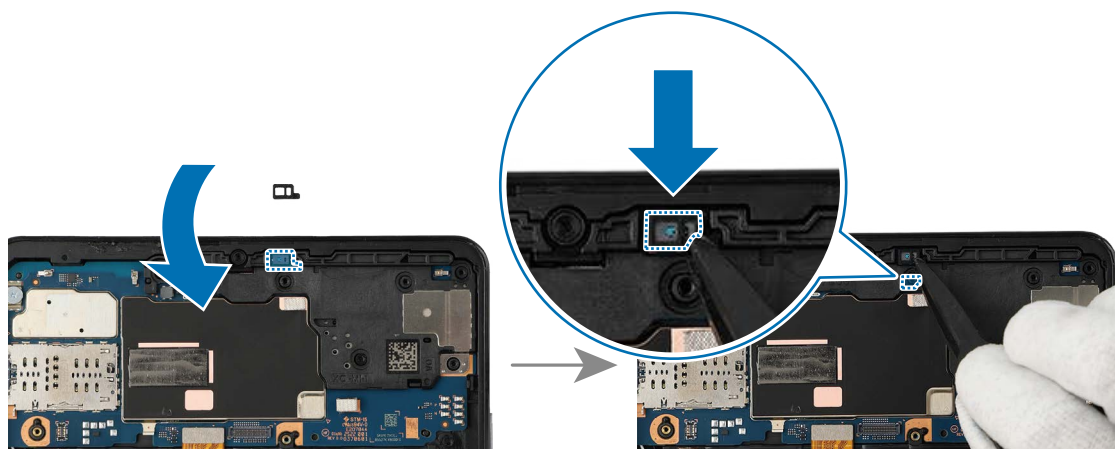
 Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

1 Using the tweezers, place the new top speaker bracket to the exact position and assemble it to the device frame. Press down softly and evenly on the speaker bracket so that the speaker can be completely assembled.

 Be careful not to damage the main board and bracket.



- 2 Assemble the sensor rubber to the exact position of the screen module using the tweezers. Press the sensor rubber with your fingers softly so that the rubber can be assembled well.



- 3 Using the tweezers, place the side button bracket to the exact position and assemble it to the device frame. Press down on it in its position smoothly.

⚠ Be careful not to break the bracket as it is very thin.

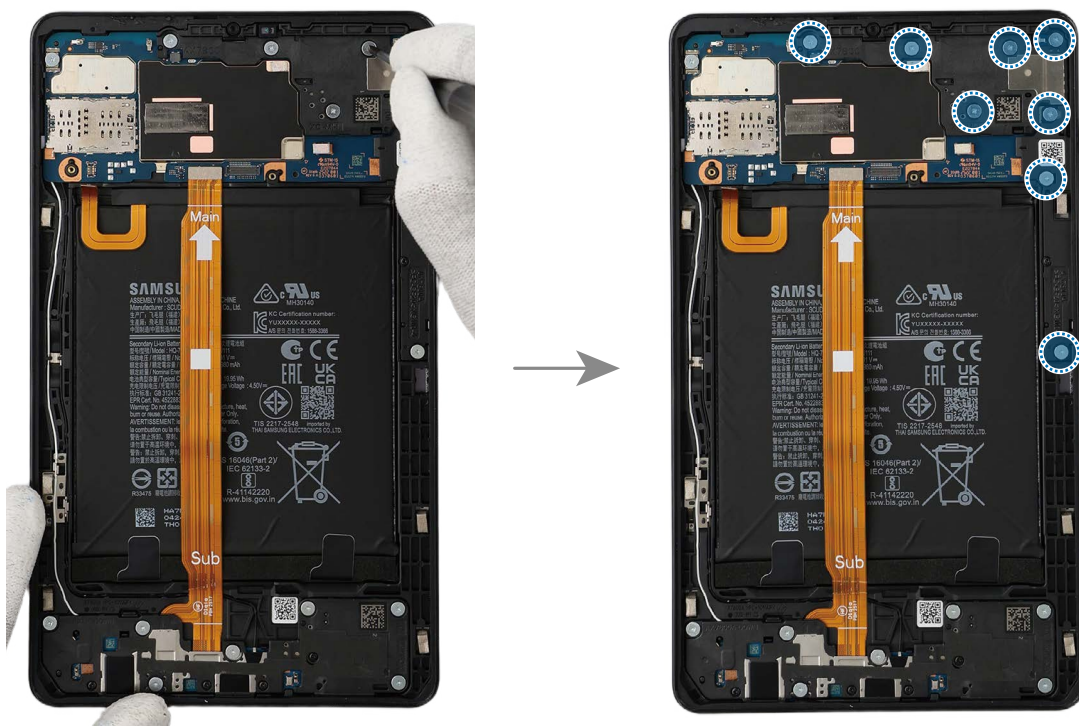


- 4 Check the screw 20679 (1 ea) at the 1 point on the side button bracket and fasten them using a cross-head screwdriver.



- 5 Check the screw 24269 (8 ea) at the 8 different points on the bracket and fasten them using a cross-head screwdriver.

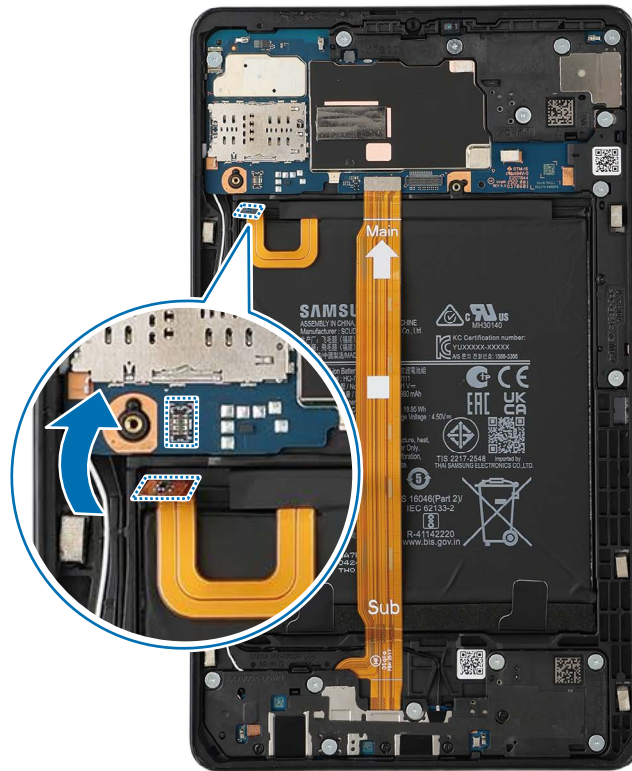
⚠ Be careful not to damage the bracket and the near components.



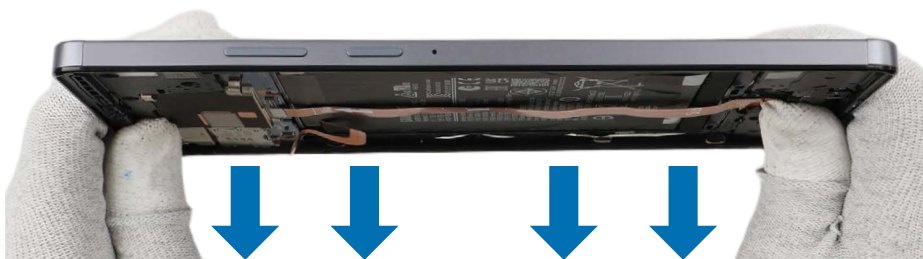
6 Connect the battery connector to the main board.

⚠ Be careful not to damage the battery.

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



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



🔧 Reassemble the [Screen](#) to complete reassembly.

Bottom Speaker

Disassembly

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

1 Using the tweezers, disconnect the battery connector first from the main board.



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



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



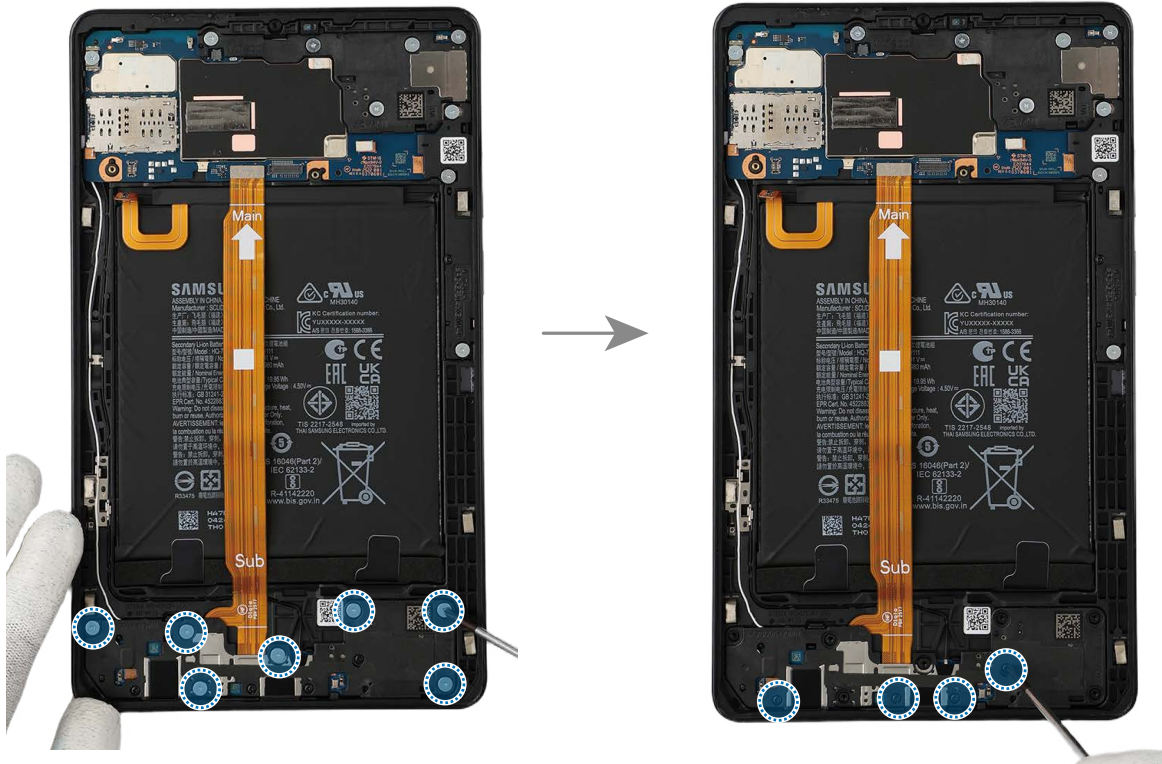
2 Check the 11 screws (silver 7 ea + black 4 ea) on the bottom speaker bracket and remove them using a cross-head screwdriver.



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

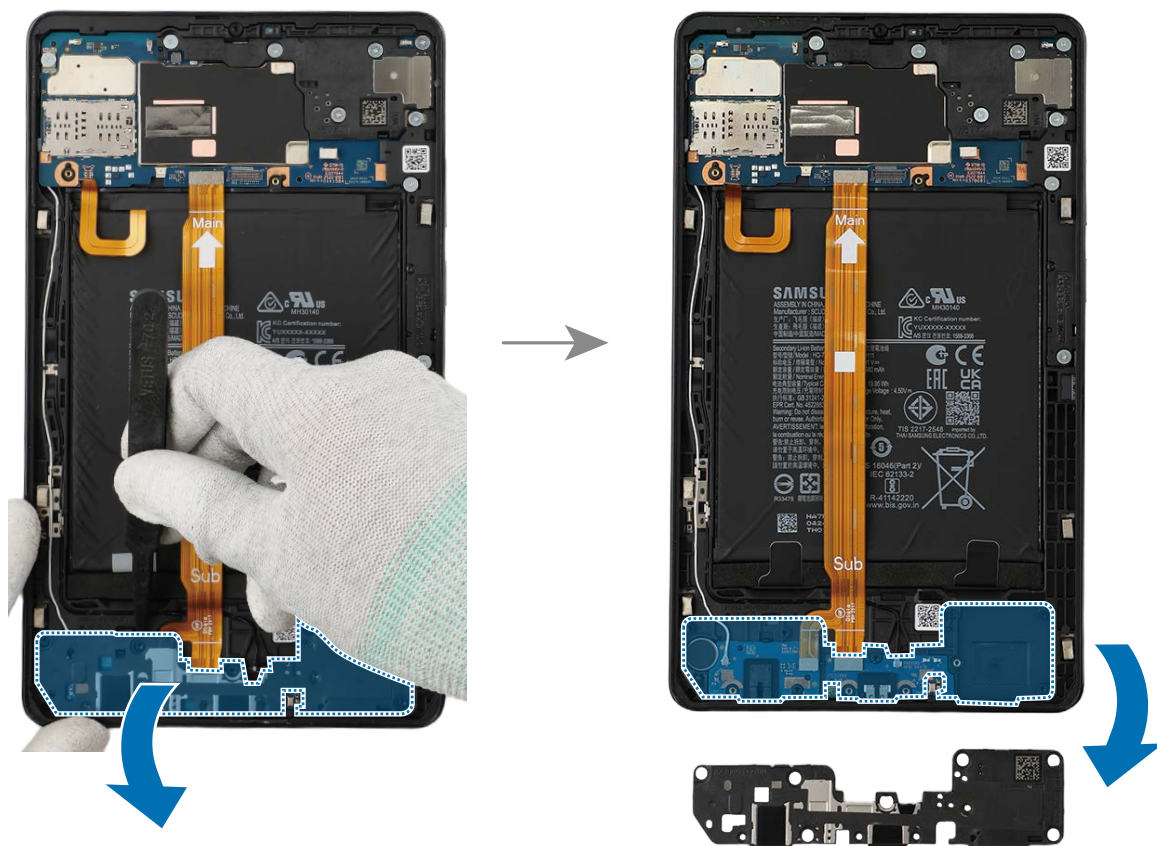


Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



3 Using the tweezers, remove the bottom speaker bracket completely.

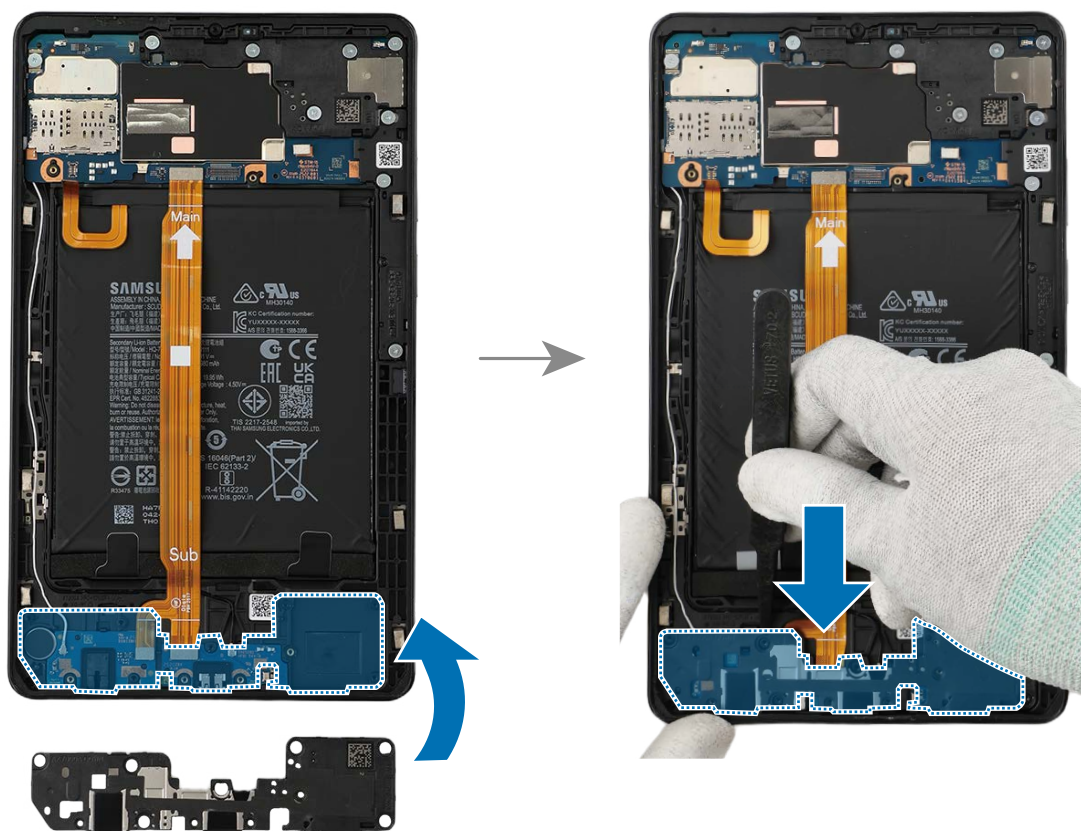
⚠ Be careful not to break the bracket as it is very thin.



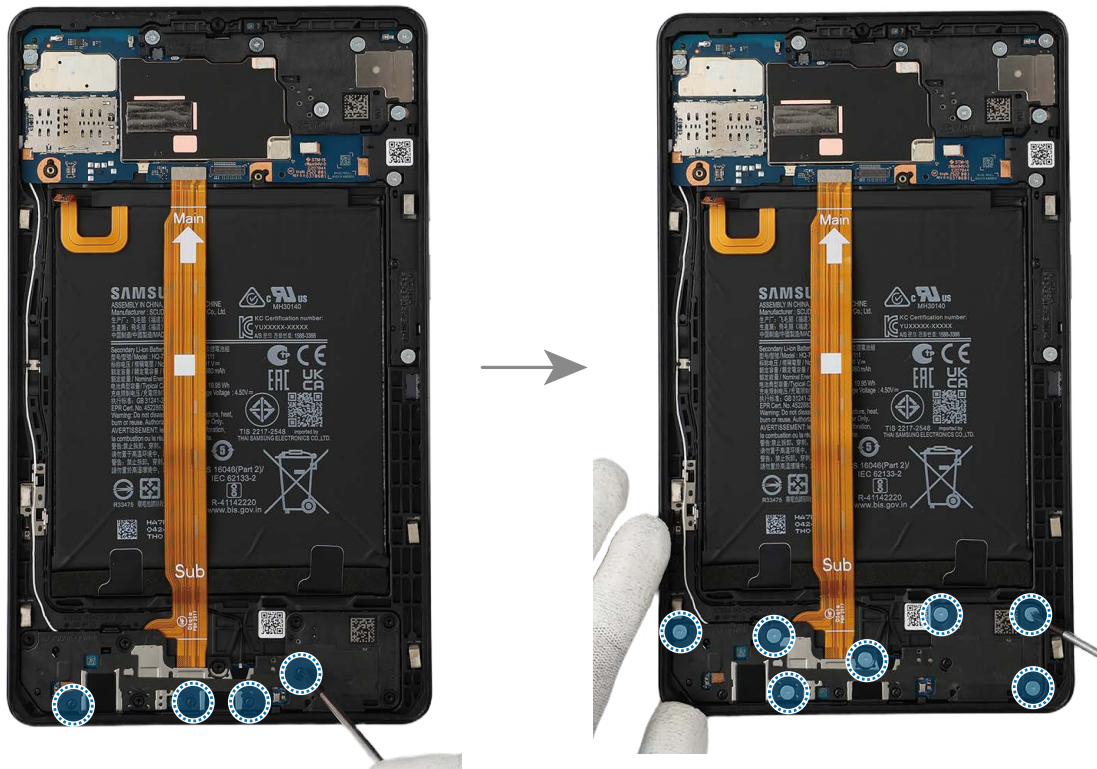
Reassembly

 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, insert the new bottom speaker bracket to the bottom device frame of device, and press down on it in its position smoothly.

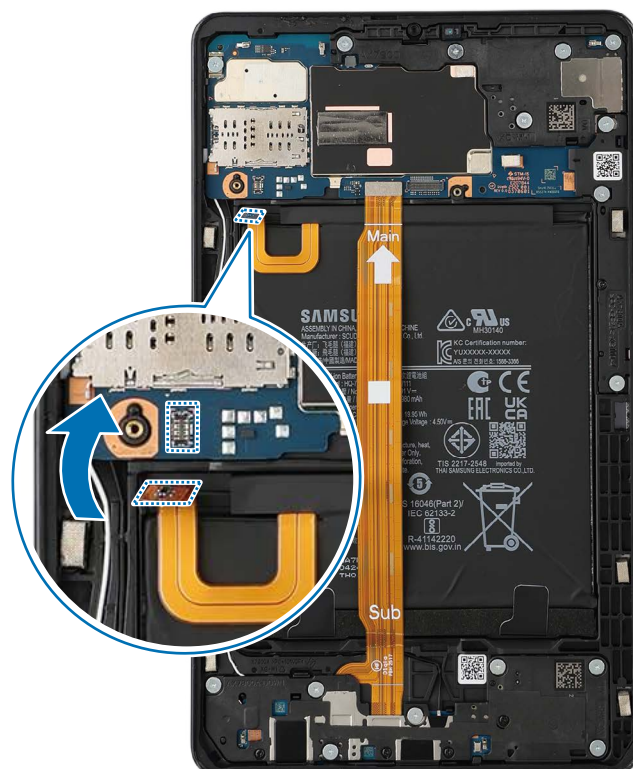


- 2 Check the screws 24269 (silver 7 ea) and 20679 (black 4 ea) at the 11 different points on the bottom speaker bracket and fasten them using a cross-head screwdriver.

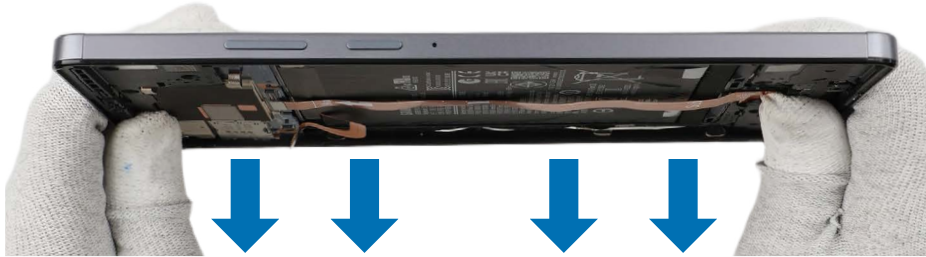


- 3 Connect the battery connector to the main board.

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



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



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

Back Cover

Disassembly

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

1 Using the tweezers, disconnect the CTC FPCB connector from the main board.

 Be careful not to damage the cable while removing the connector.



- 2 Check the screw at the 1 point on the main board 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.



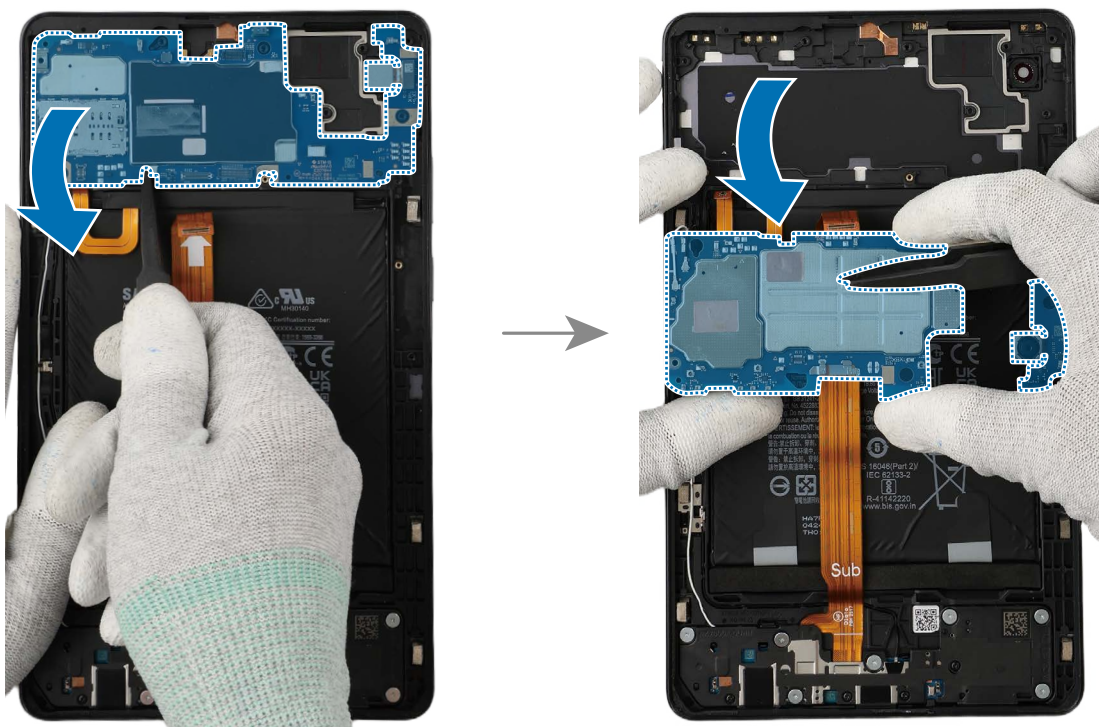
3 Using the tweezers, lift up on the separator groove of the main board and flip the main board module carefully. For the LTE devices, separate the 2 coaxial cable connectors (White/Black) from the main board. Remove the main board completely.

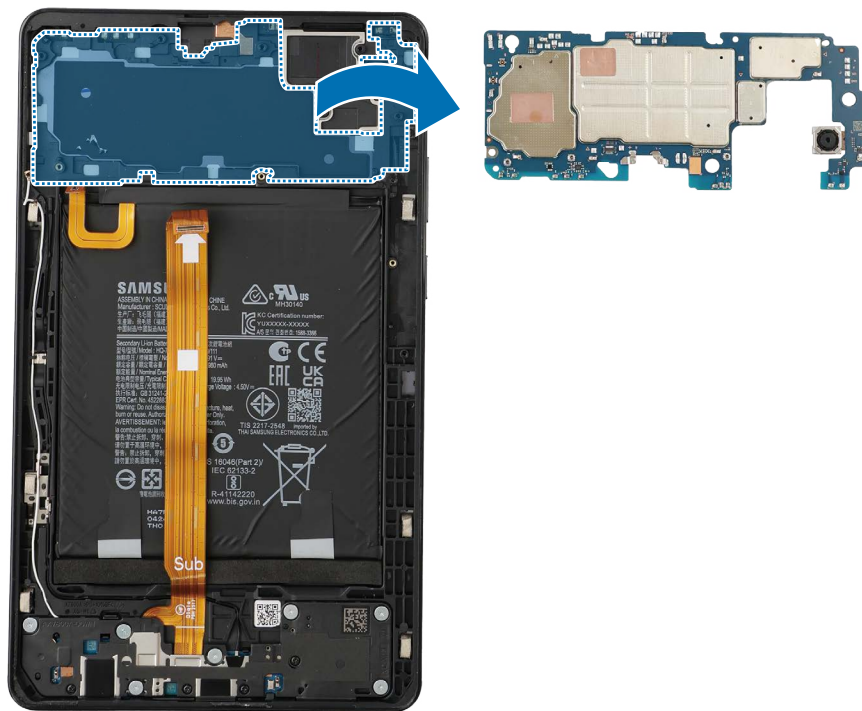
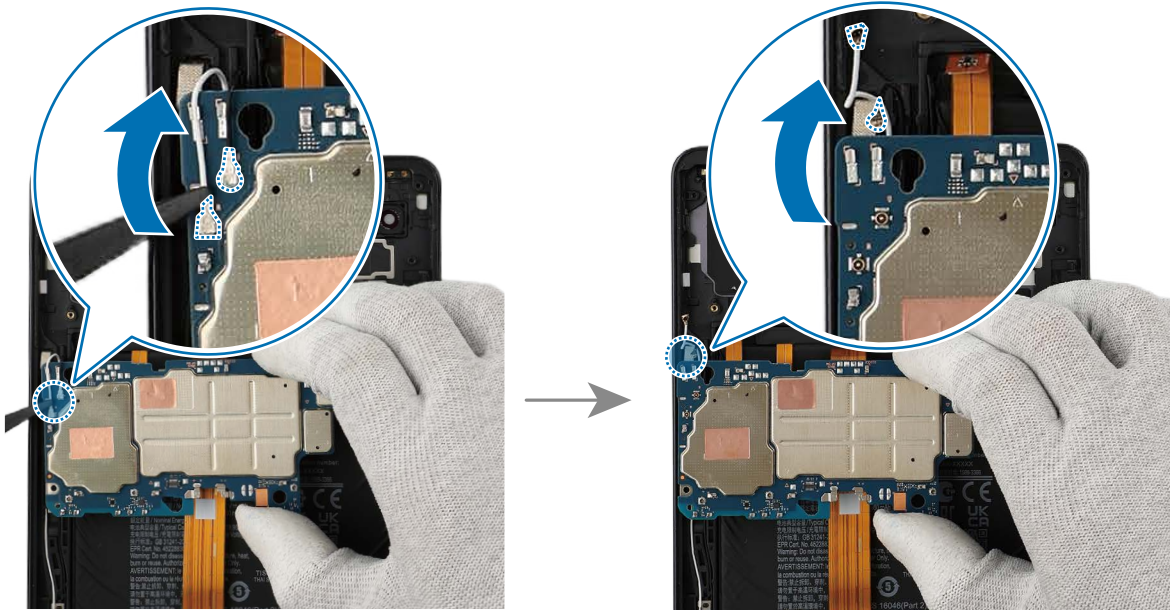


- Be careful not to damage the main board and the near components.
- FPCB cables and connectors have to be positioned outside so as not to interfere when disassembling the main board.

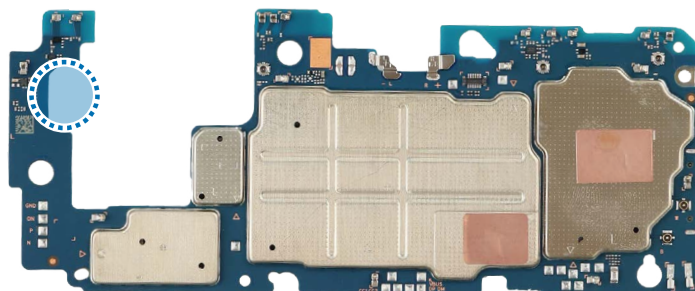


- The 2 coaxial cables (White/Black) are only available for the LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



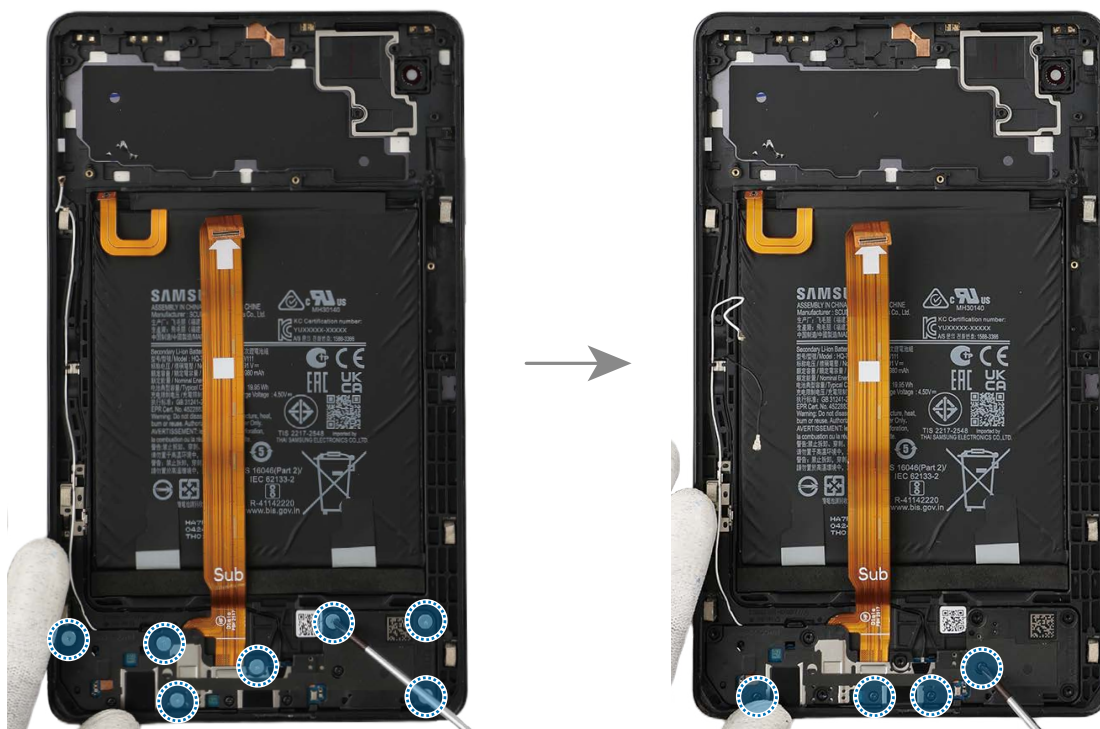


Remove the rear camera additionally to disassemble only the main board.



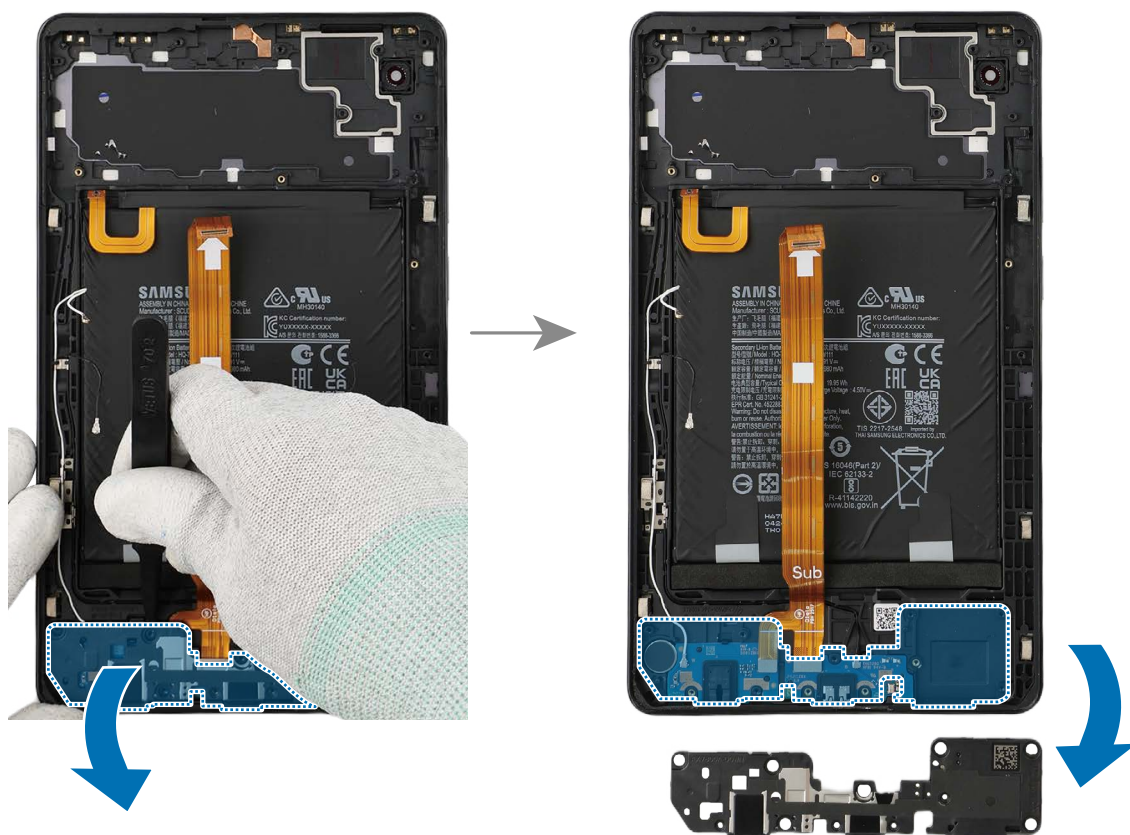
4 Check the 11 screws (silver 7 ea + black 4 ea) on the bottom speaker bracket and remove them using a cross-head screwdriver.

 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.



5 Using the tweezers, remove the bottom speaker bracket completely.

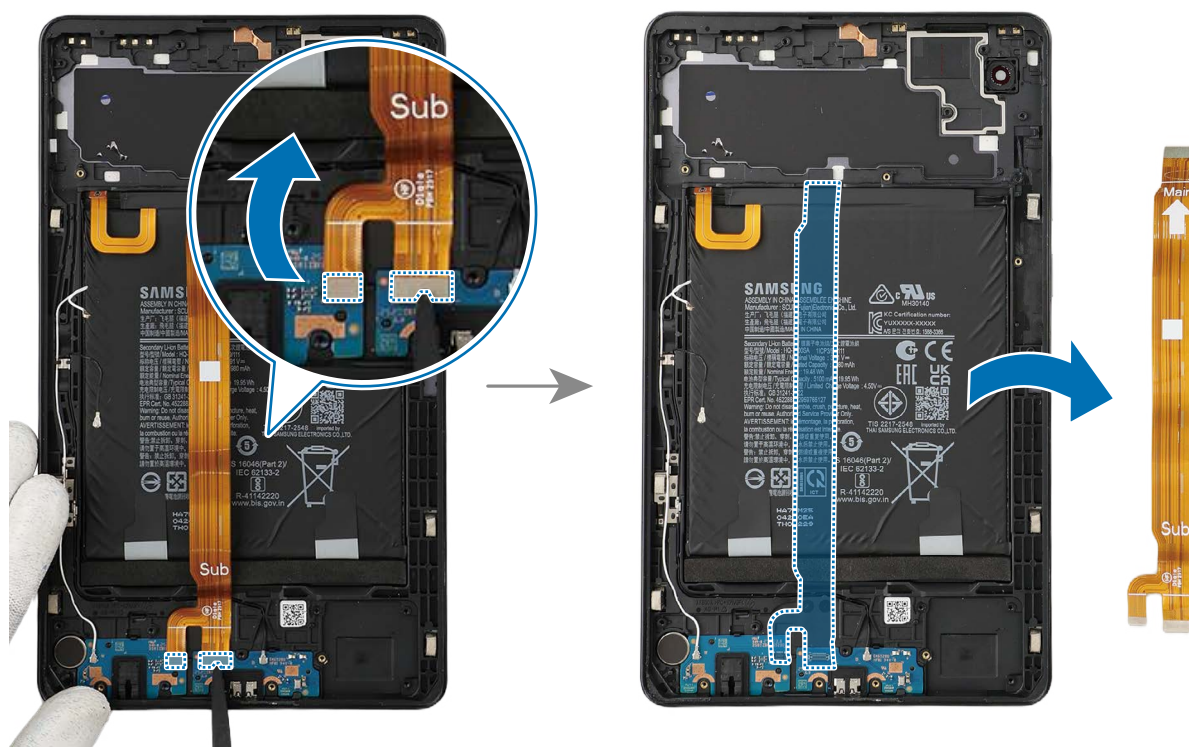
❗ Be careful not to break the bracket as it is very thin.



6 Using the tweezers, disconnect the 2 connectors from the PBA. Then, remove the CTC FPCB completely from the device frame.



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



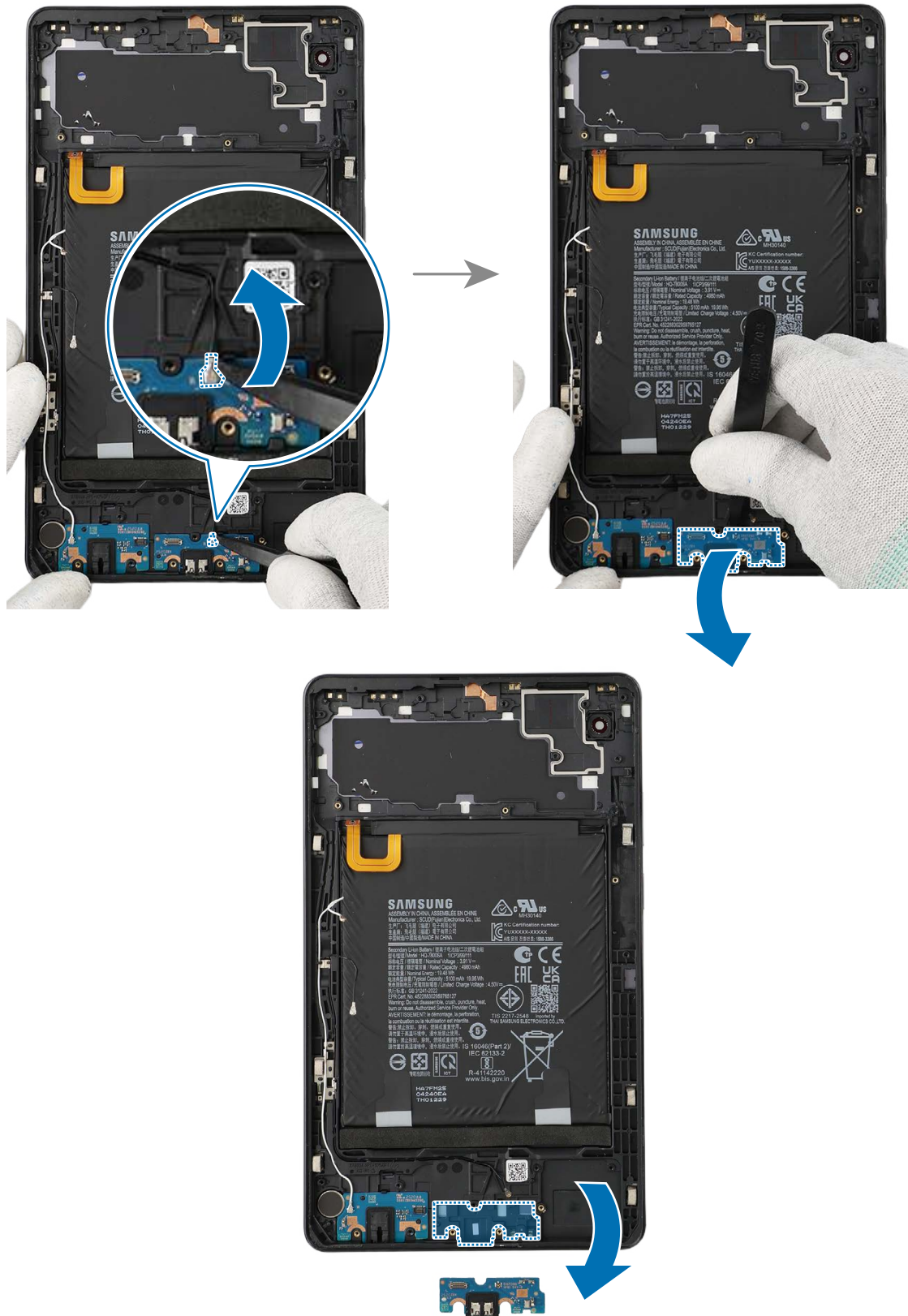
7 For the LTE devices, using the tweezers, disconnect the Black coaxial cable connector from the USB PBA. Then, remove the USB PBA completely from the device frame.



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



- The 1 coaxial cable (Black) is only available for the LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



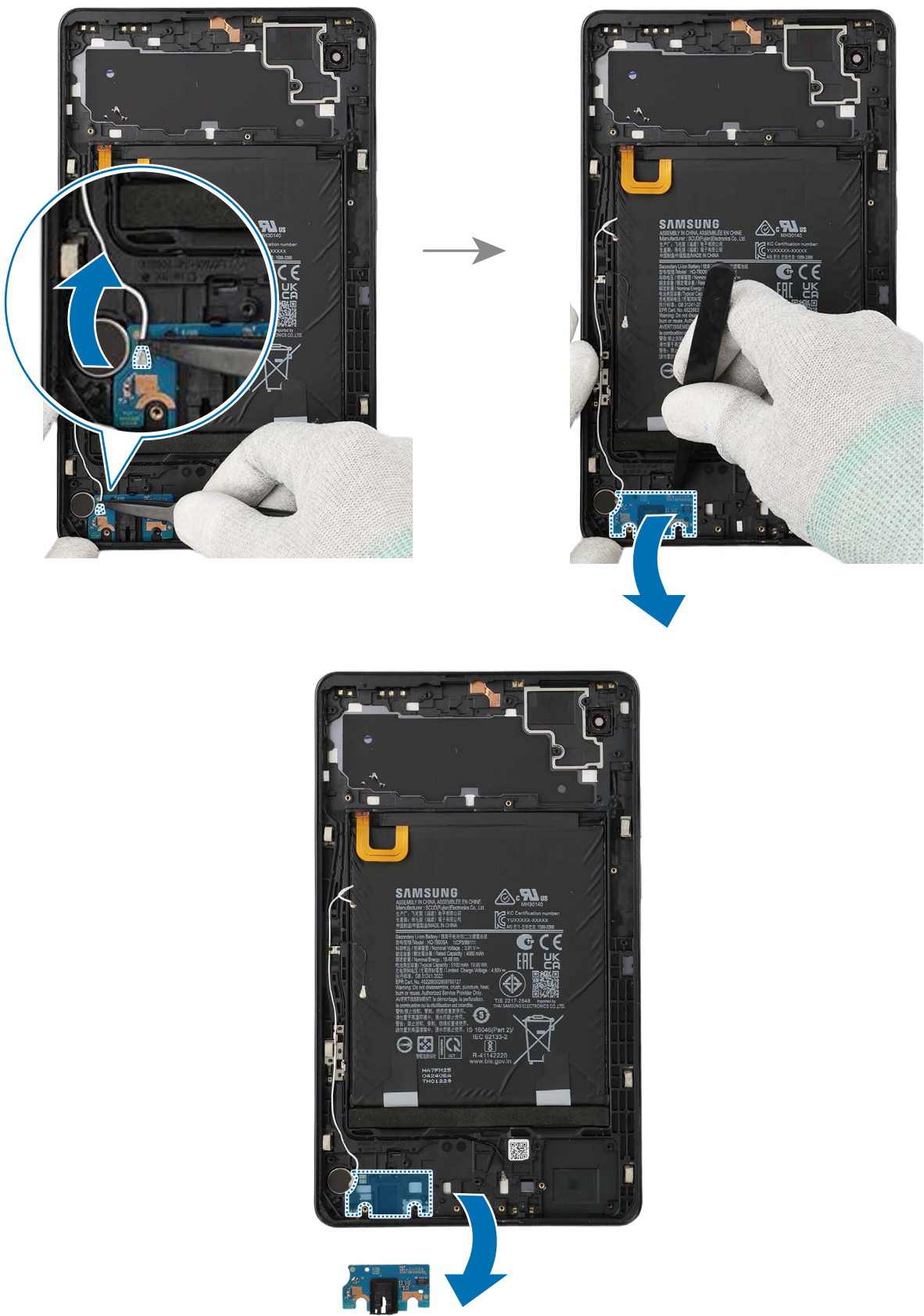
8 For the LTE devices, using the tweezers, disconnect the White coaxial cable connector from the Headphone Jack PBA. Then, remove the Headphone Jack PBA completely from the device frame.



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



- The 1 coaxial cable (White) is only available for the LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



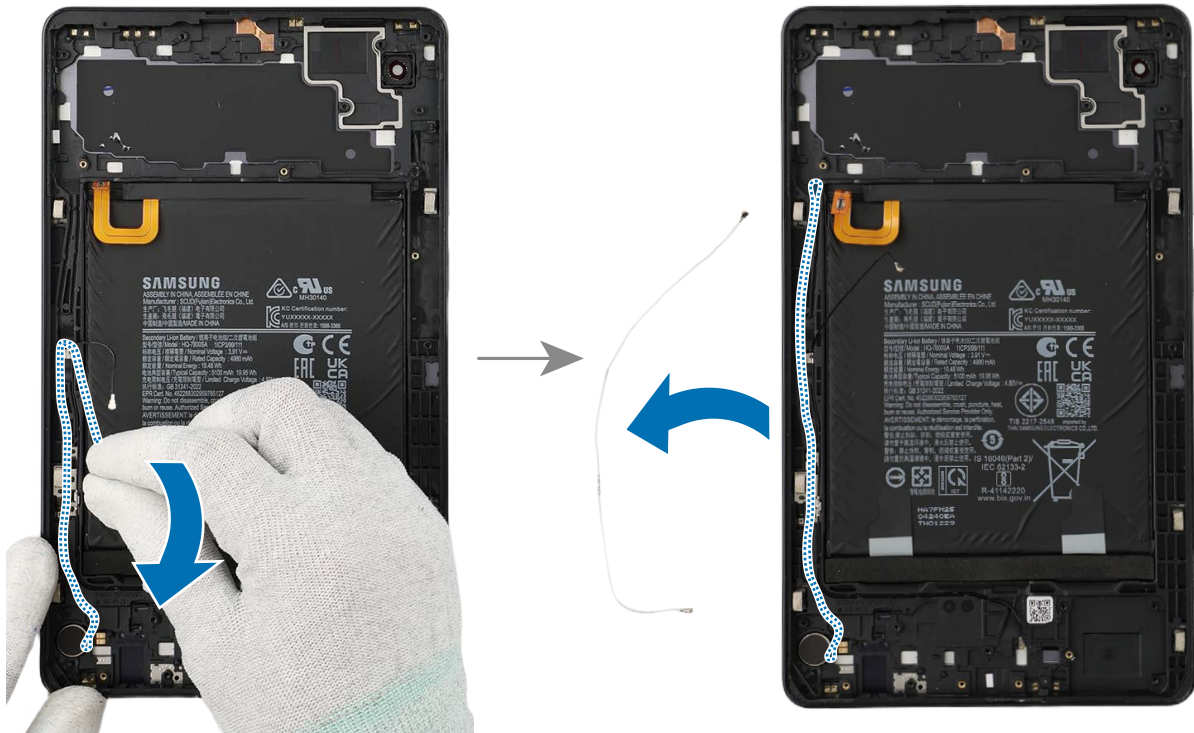
9 For the LTE devices, disconnect the White coaxial cable and remove it completely.



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



- The 1 coaxial cable (White) is only available for the LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



10 For the LTE devices, disconnect the Black coaxial cable and remove it completely.



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

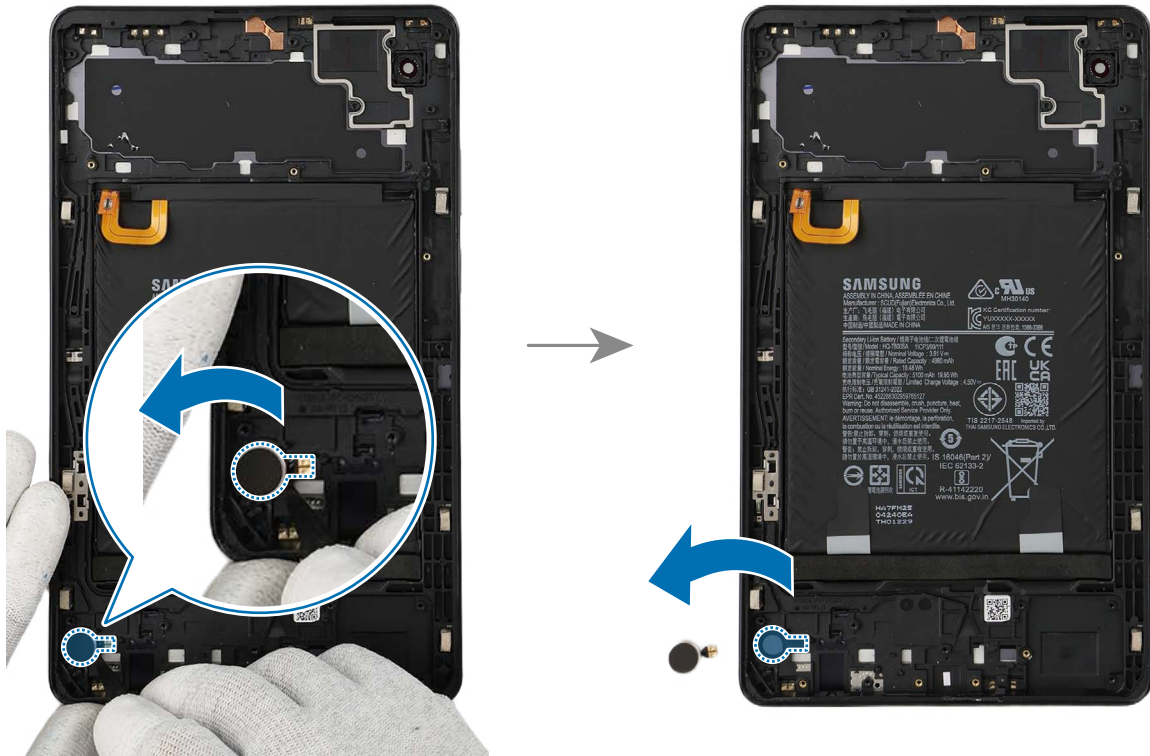


- The 1 coaxial cable (Black) is only available for the LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



- 11 Using the tweezers, lift up on the separator groove of vibrator motor and remove it carefully from the device frame.

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

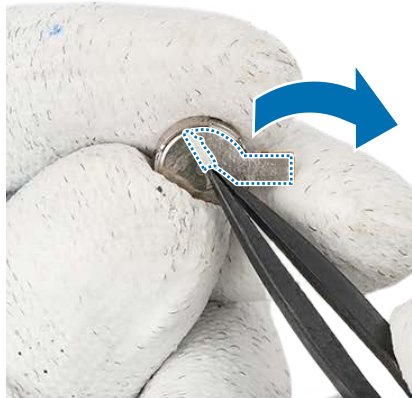


Reassembly

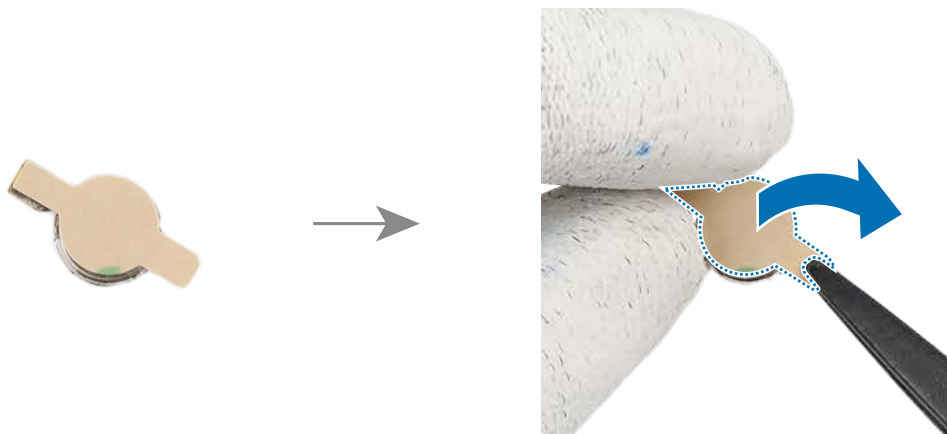
 Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

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

 Be careful not to damage the vibrator motor.

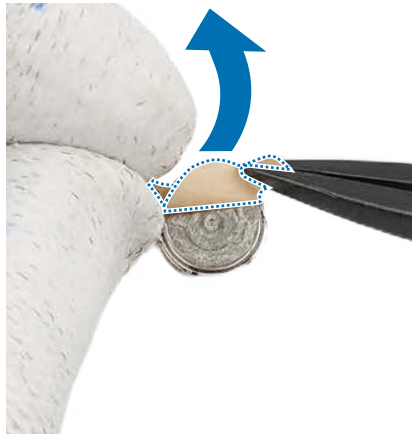


2 Remove the clear film from new vibrator motor adhesive tape and apply it to the bottom of the vibrator motor. Gently press down the tape so that the tape can be attached well.



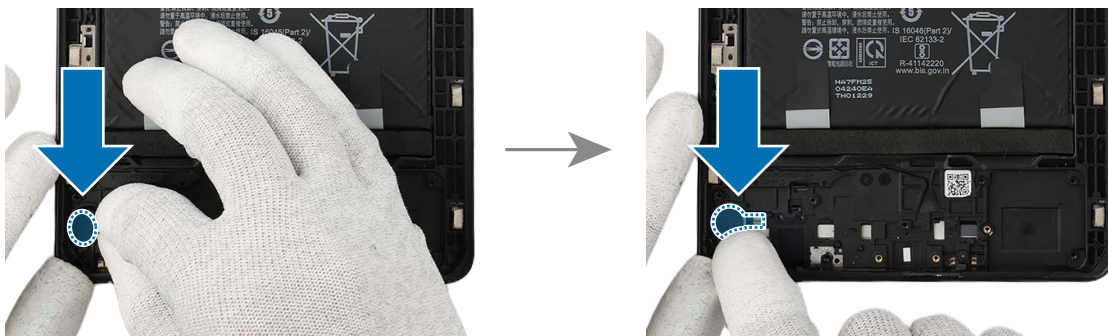
3 Remove the release film from the adhesive tape.

❗ Be careful not to damage the vibrator motor.



4 Assemble the vibrator motor to the exact position of the screen module and press it with fingers softly.

❗ Be careful not to damage the vibrator motor and near components



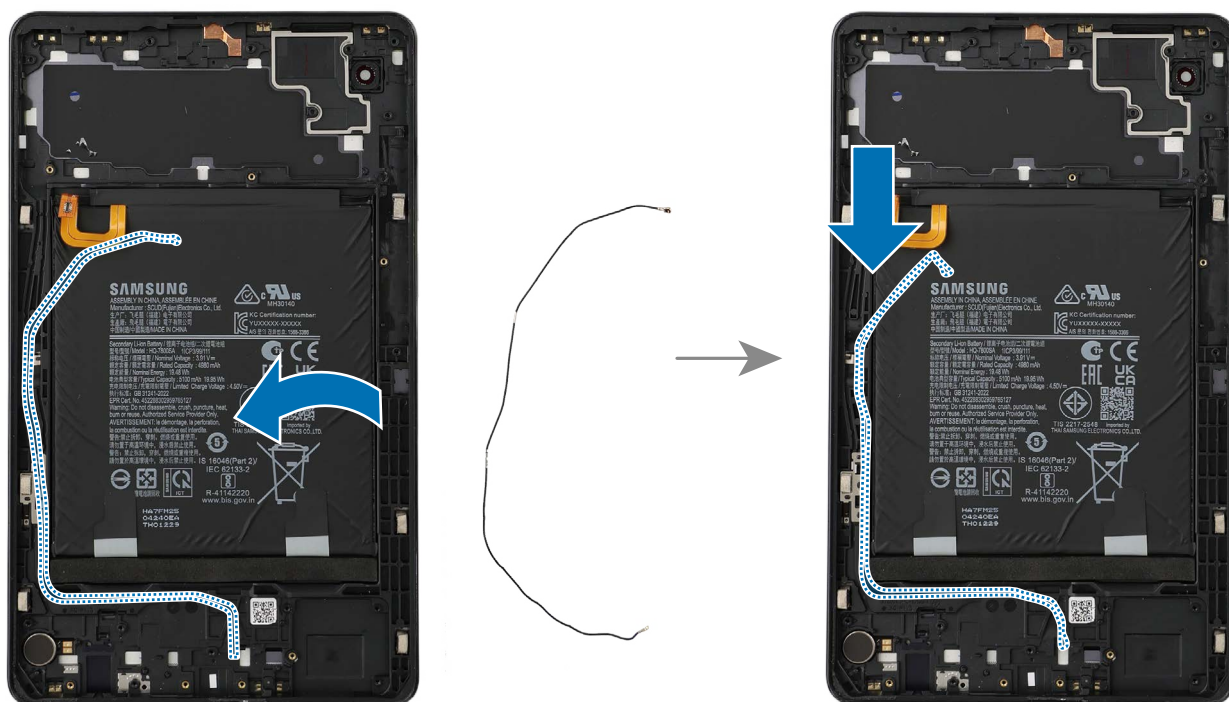
5 For the LTE devices, place the Black coaxial cable to the device frame and assemble carefully.



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

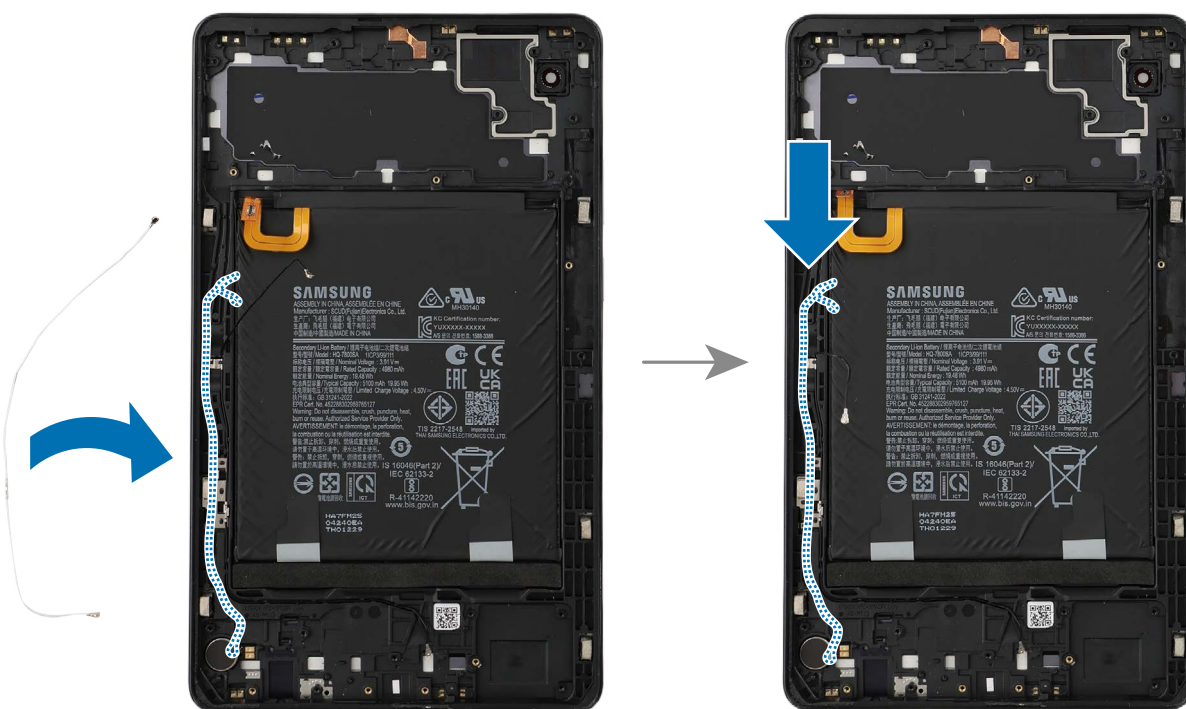


- The 1 coaxial cable (Black) is only available for the LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



6 For the LTE devices, place the White coaxial cable to the device frame and assemble carefully.

- ❗ • Be careful not to damage the near components.
- When connecting the connectors, be careful not to damage the cable.
- ✍ • The 1 coaxial cable (White) is only available for the LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



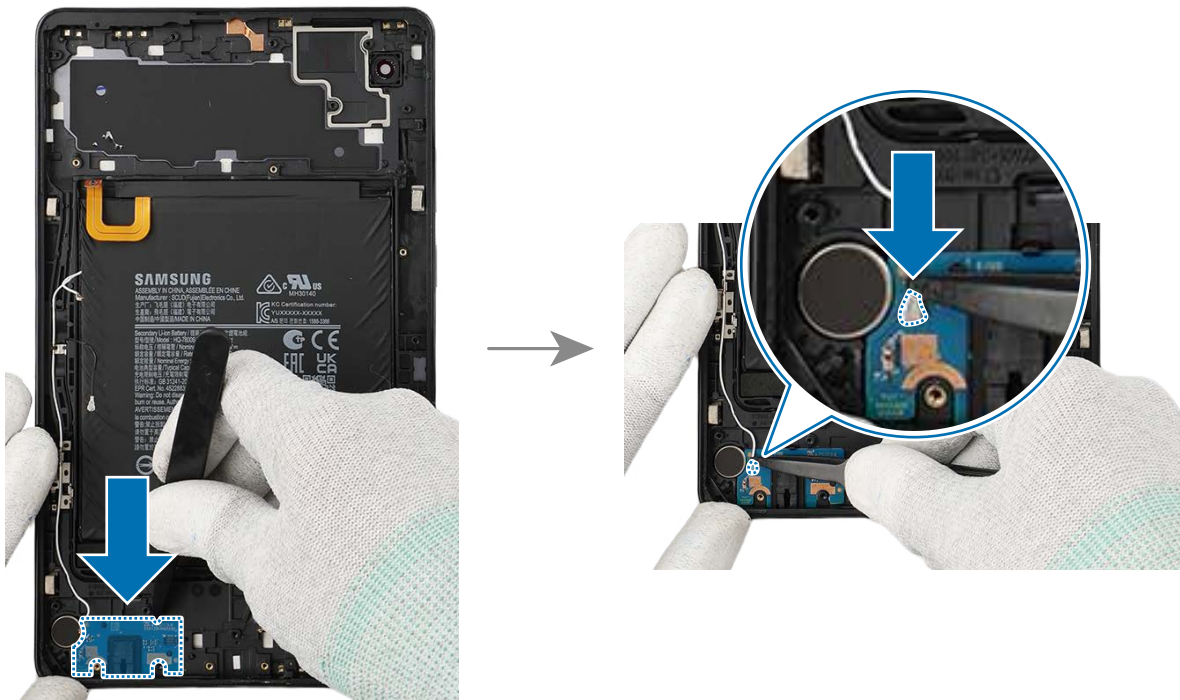
7 Using the tweezers, insert the Headphone Jack PBA to the bottom device frame of device and press down on it in its position smoothly. For the LTE devices, carefully connect the 1 coaxial cable (White).



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



- The 1 coaxial cable (White) is only available for the LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



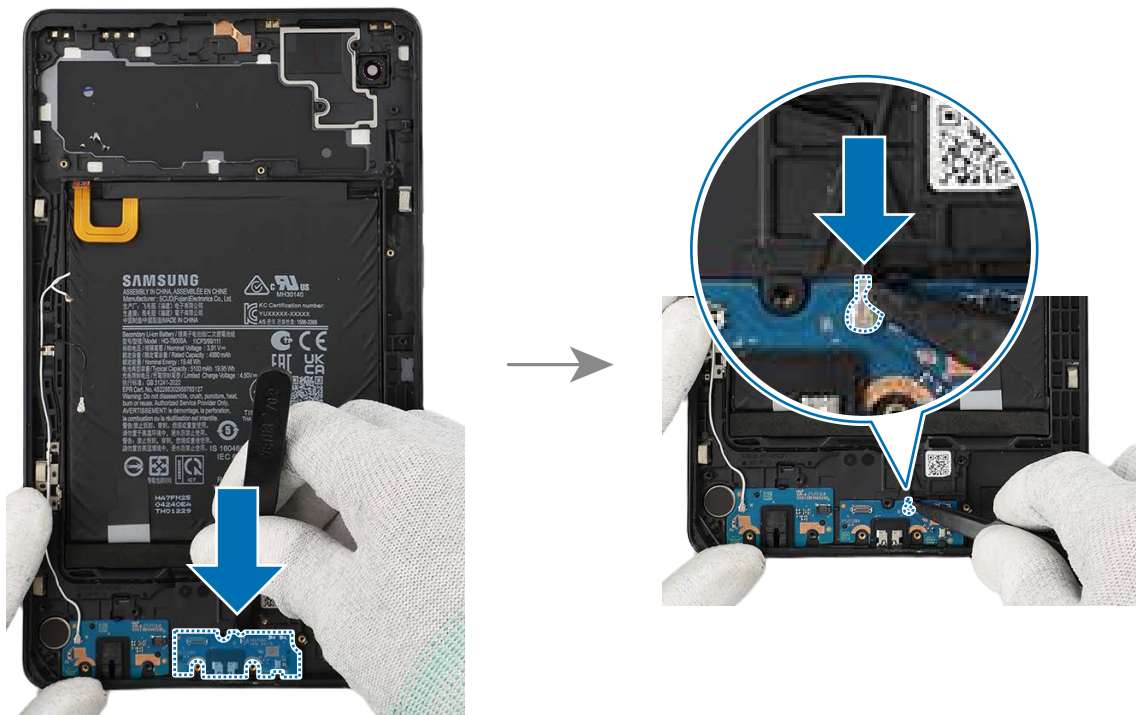
8 Using the tweezers, insert the USB PBA to the bottom device frame of device and press down on it in its position smoothly. For the LTE devices, carefully connect the 1 coaxial cable (Black).



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



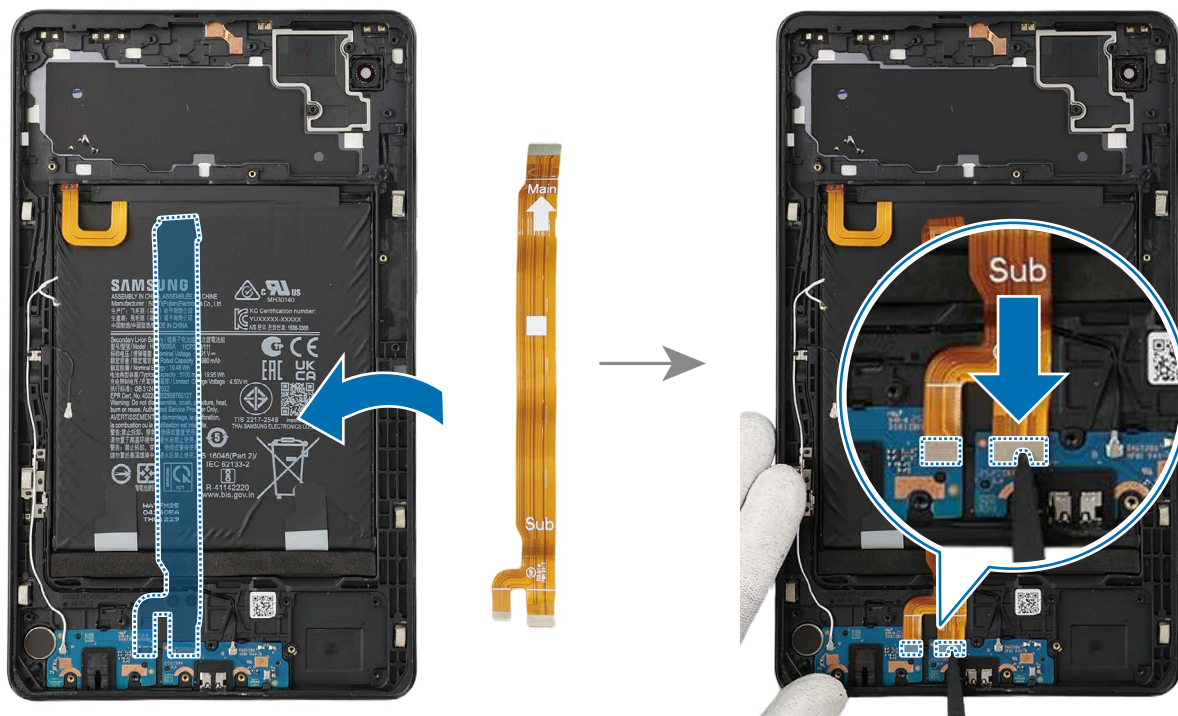
- The 1 coaxial cable (Black) is only available for the LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



9 Place the CTC FPCB to the device frame and connect the 2 connectors carefully.

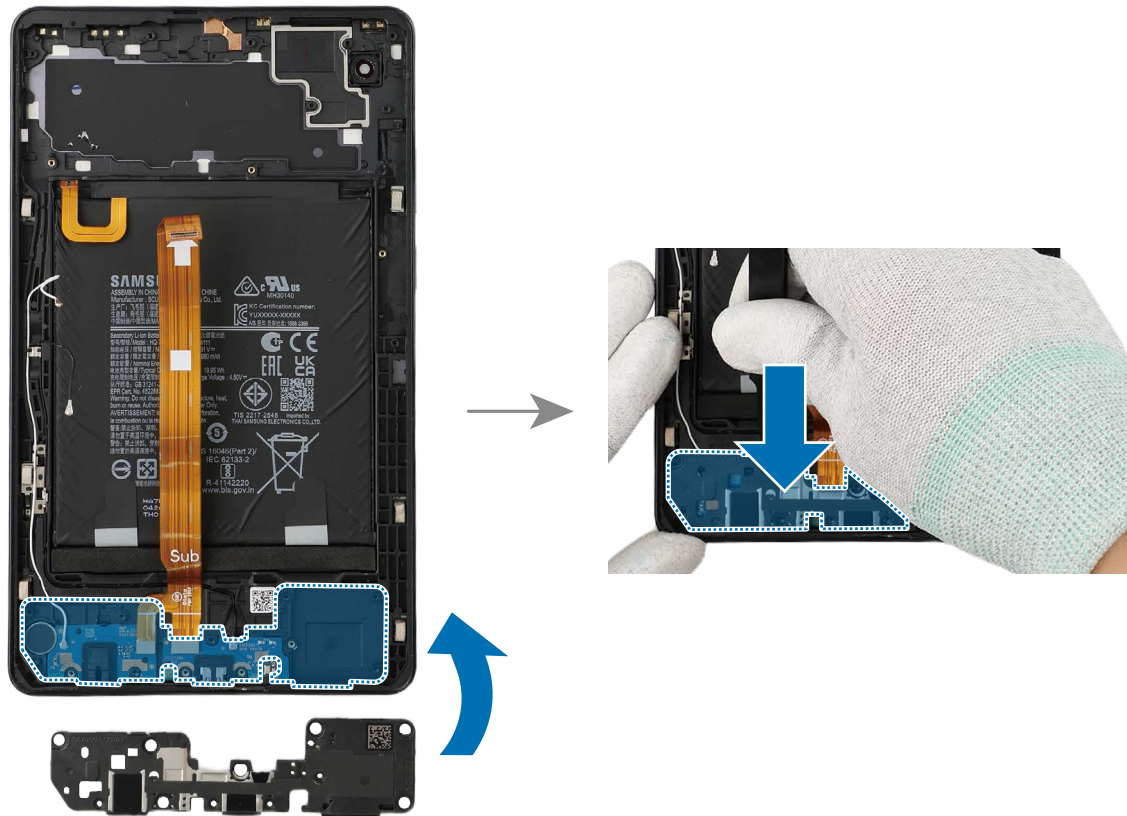


- Be careful not to damage the PBA and the near components.
- When connecting the connectors, be careful not to damage the cable.



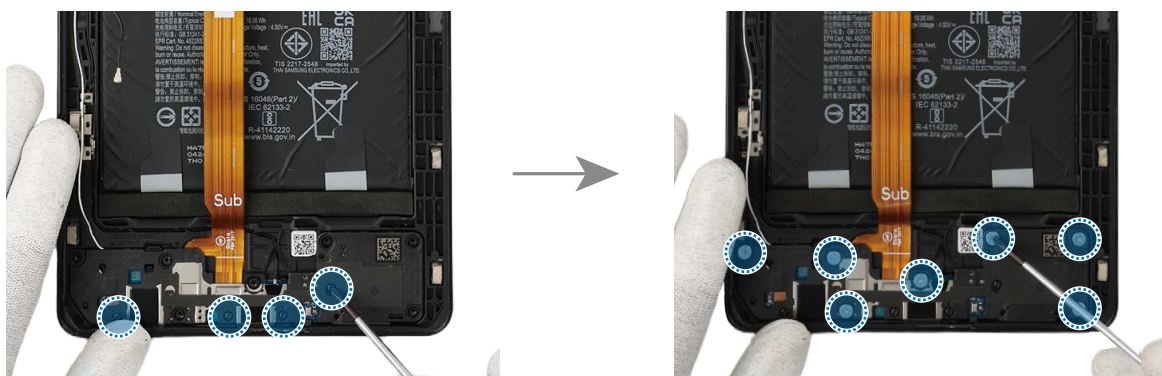
10 Using the tweezers, insert the bottom speaker bracket to the bottom device frame of device, and press down on it in its position smoothly.

- ❗ Be careful not to damage the cable.
- Be careful not to damage the PBA and near components.



11 Check the screws 20679 (black 4 ea) and 24269 (silver 7 ea) at the 11 different points on the Bottom speaker bracket and fasten them using a cross-head screwdriver.

- ❗ Be careful not to damage the the near components.



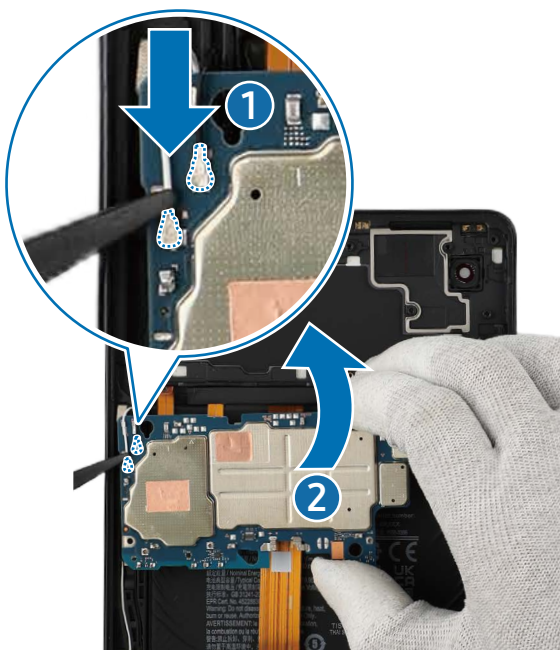
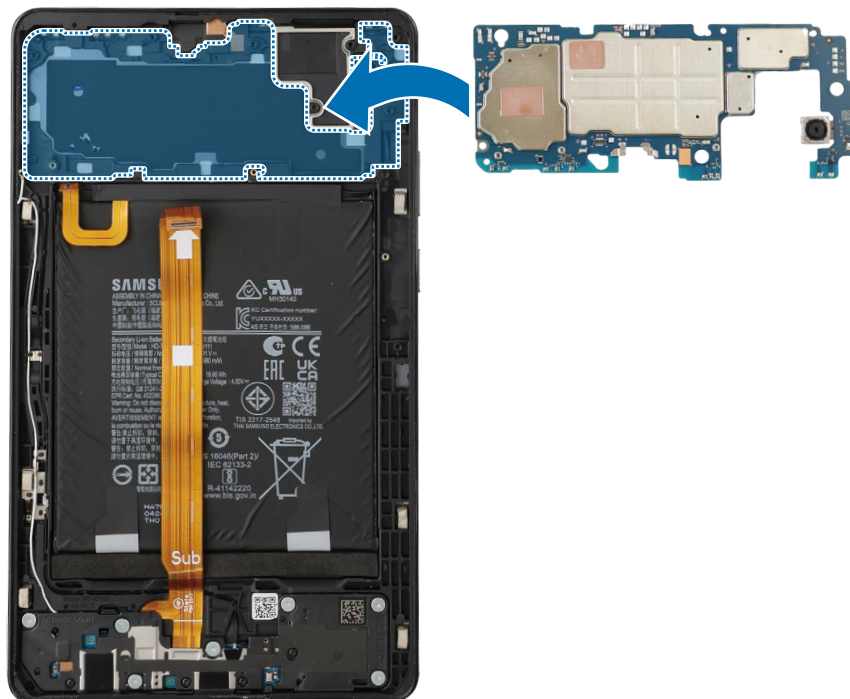
- 12 Turn the main board slowly over back to its original state and attach it to the device frame. For the LTE devices, leave the inside of the main board visible and connect the 2 coaxial cable using the tweezers.



- Be careful not to damage the cable and the connectors.
- Be careful not to damage the main board.

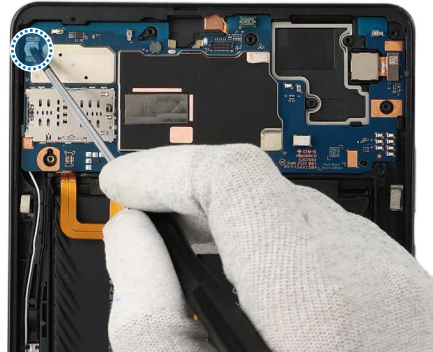


- The 2 coaxial cables (Black/White) are only available for the LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



- 13 Check the screw 24269 (1 ea) at the 1 point on the main board and fasten them using a cross-head screwdriver.

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



- 14 Using the tweezers, connect the CTC FPCB connector to the main board.

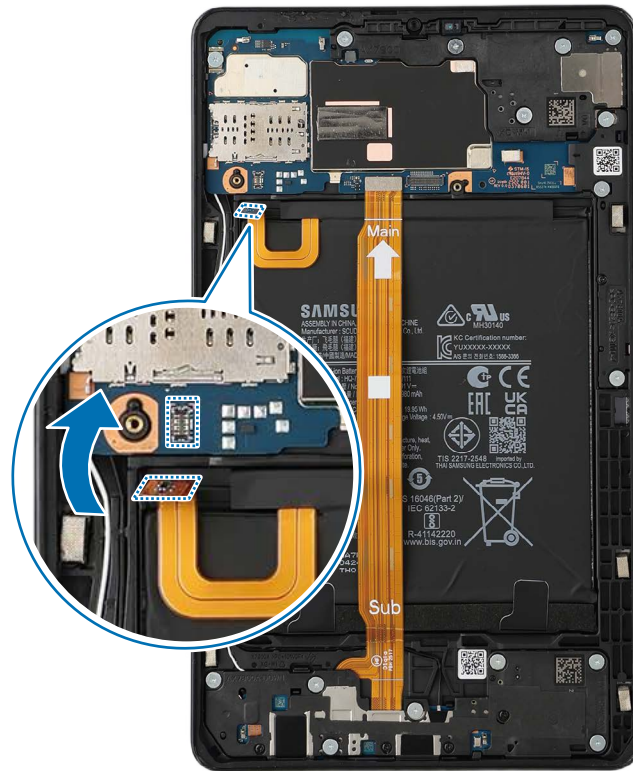
⚠ Be careful not to damage the connector and near components.



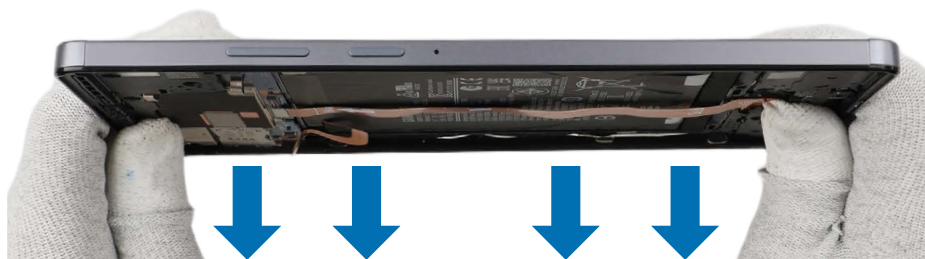
15 Connect the battery connector to the main board.

⚠ Be careful not to damage the battery.

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



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



🔧 Reassemble the [Screen](#) to complete reassembly.

Button

Disassembly

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

1 Using the tweezers, disconnect the battery connector first from the main board.

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

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



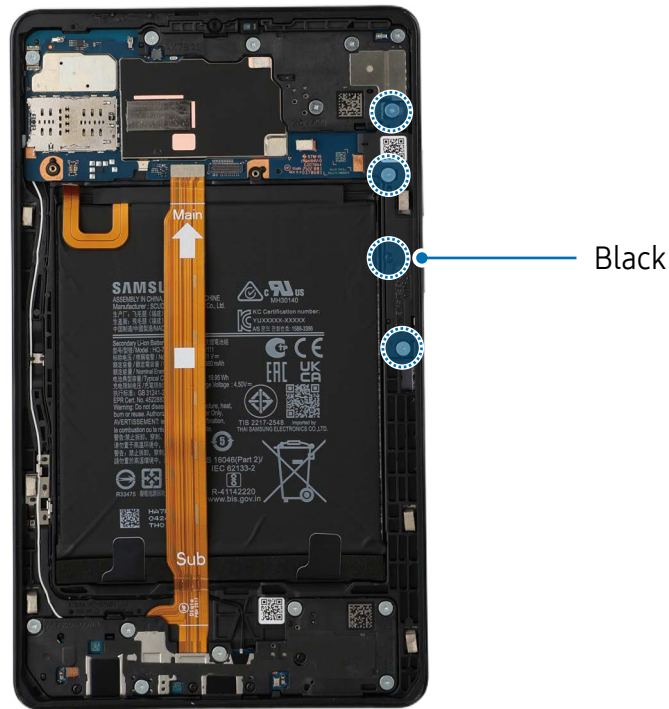
- 2 Check the 4 screws (silver 3 ea + black 1 ea) on the side button bracket and remove them using a cross-head screwdriver.



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



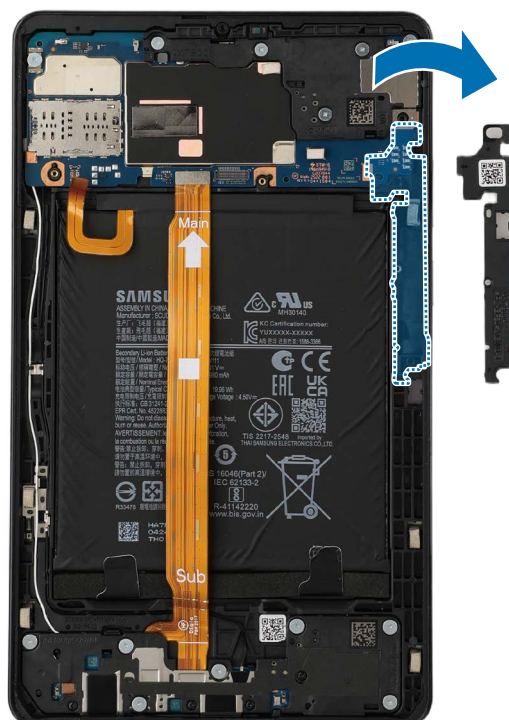
Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



- 3 Using the tweezers, remove the side button bracket completely.



Be careful not to break the bracket as it is very thin.



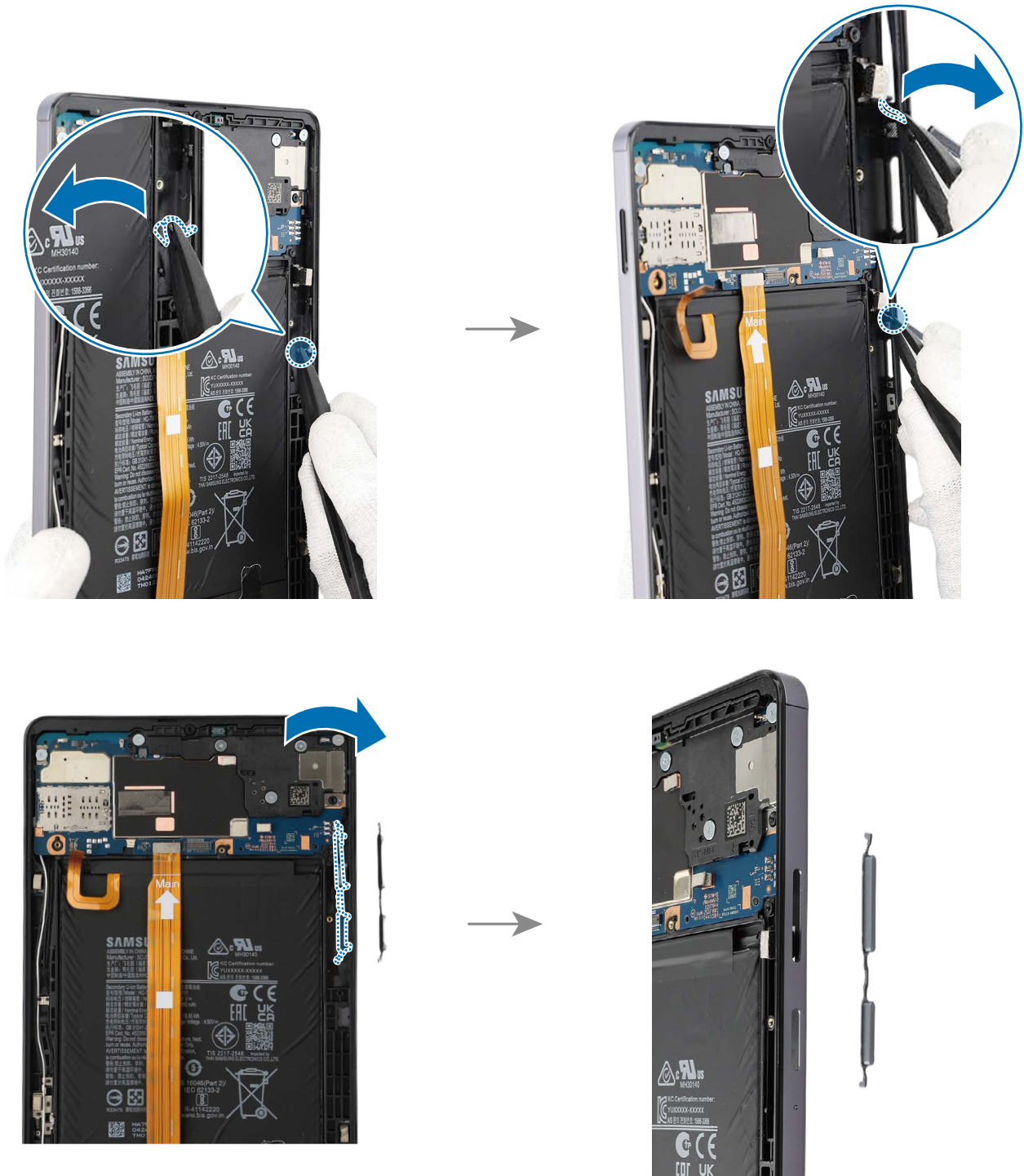
- 4 Using the tweezers, grab the rubber for side button module and separate each end of it carefully. Using your fingers, grab the button module and separate it from the device.



- When holding the button with a tweezer, be very careful not to damage or scratch the device.



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

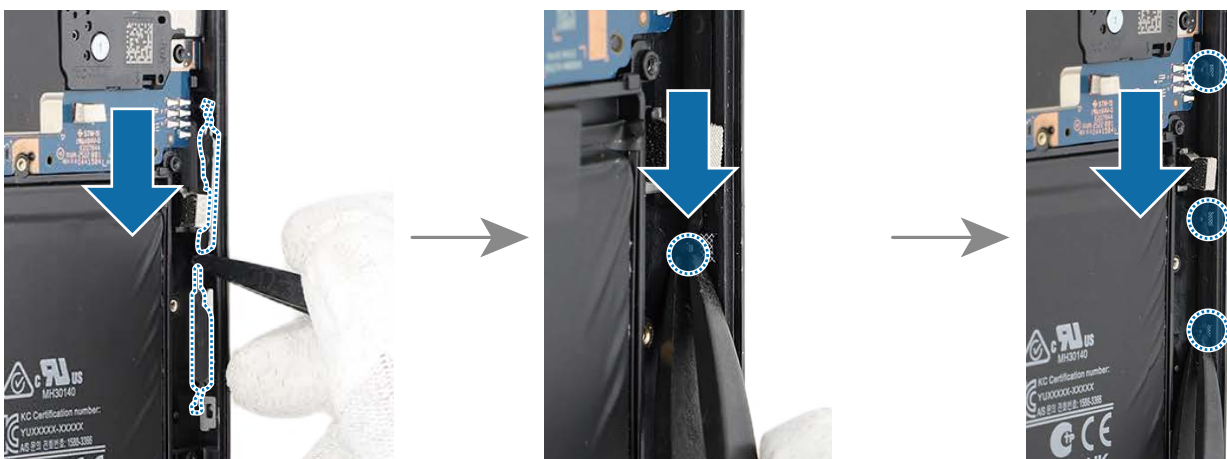


Reassembly

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

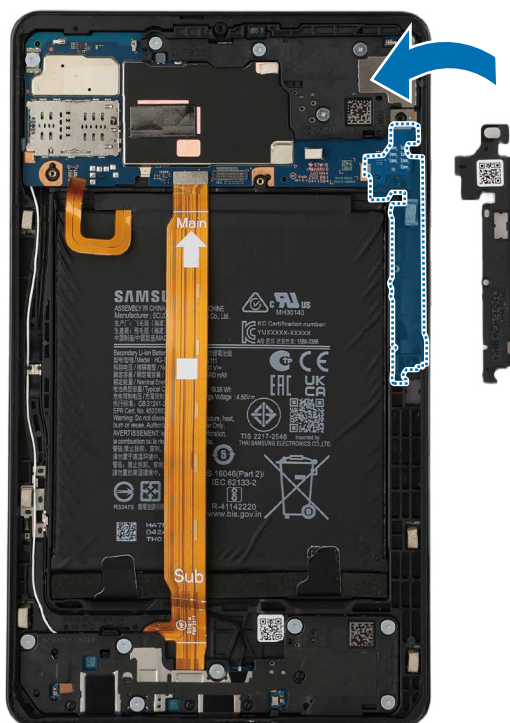
1 Using the tweezers, grab the button module and insert it to the device carefully. Using the tweezers, grab the rubber for side button module and assemble each end of it exactly to the device.

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



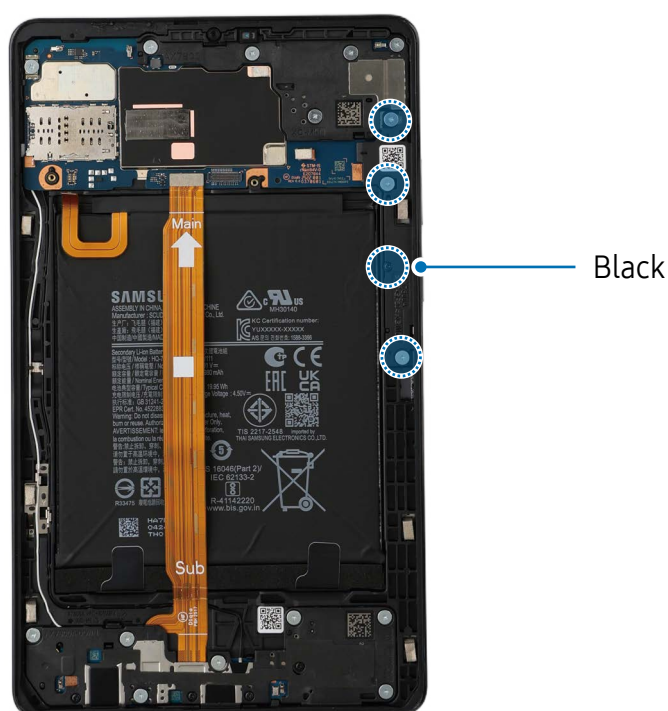
- 2 Place the side button bracket to the exact position and assemble it to the back cover module.

⚠ Be careful not to break the bracket as it is very thin.



- 3 Check the screws 24269 (silver 3 ea) and 20679 (black 1 ea) at the 4 different points on side button bracket and fasten them using a cross-head screwdriver.

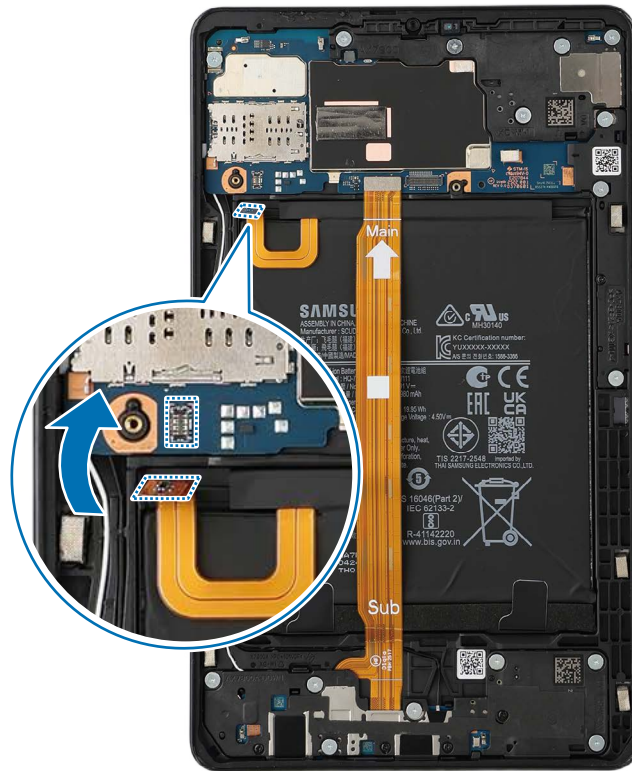
⚠ Be careful not to damage the near components.



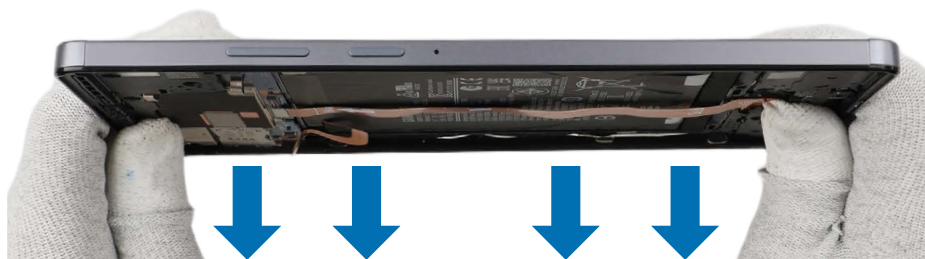
4 Connect the battery connector to the main board.

⚠ Be careful not to damage the battery.

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



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



🔧 Reassemble the [Screen](#) to complete reassembly.

Battery

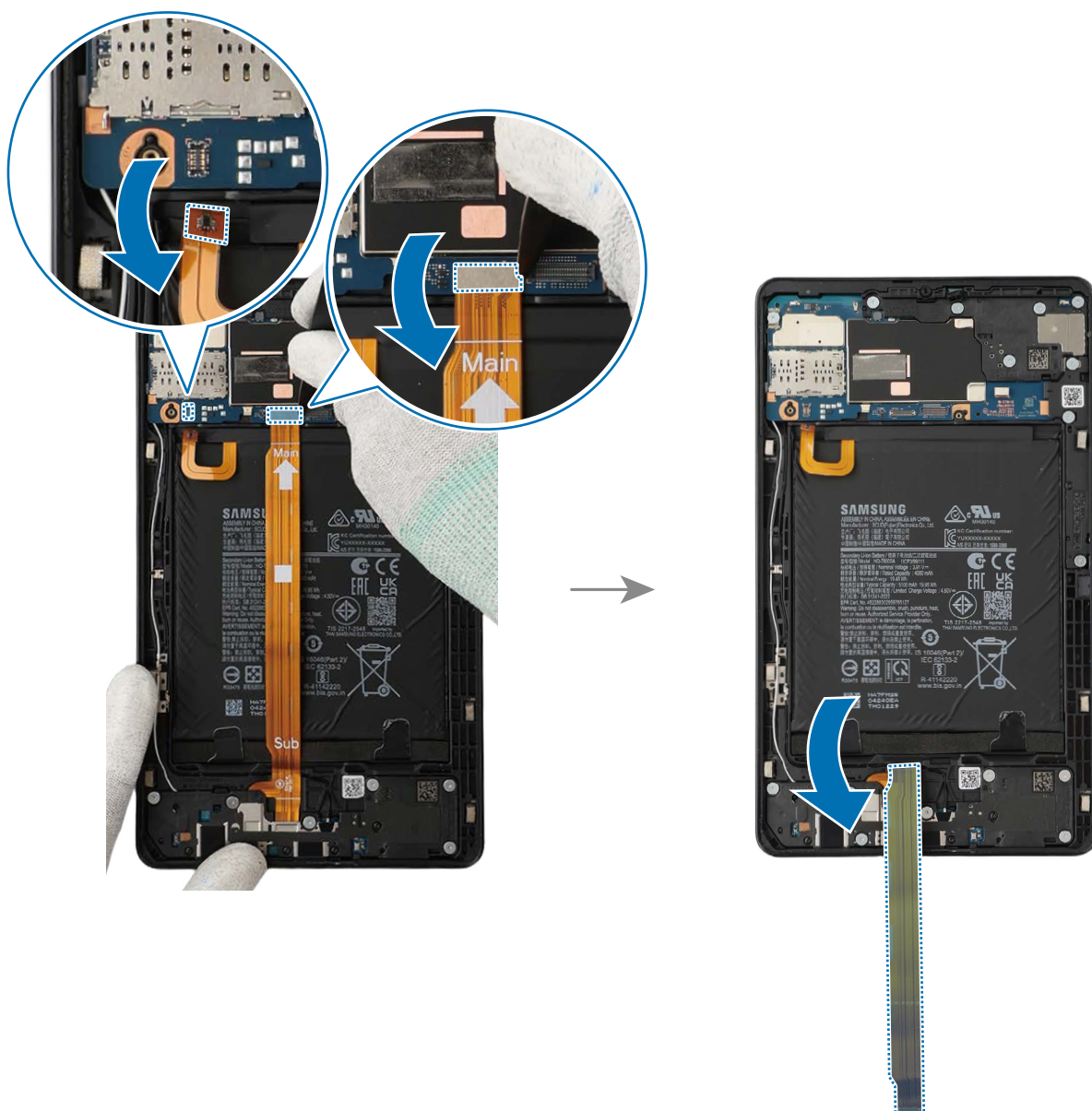
 The separated battery may be damaged. Do not use it again.

Disassembly

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

1 Using the tweezers, disconnect the battery connector first from the main board. Then, disconnect the CTC FPCB cable connector from the main board. Place the CTC FPCB cable to the outside carefully.

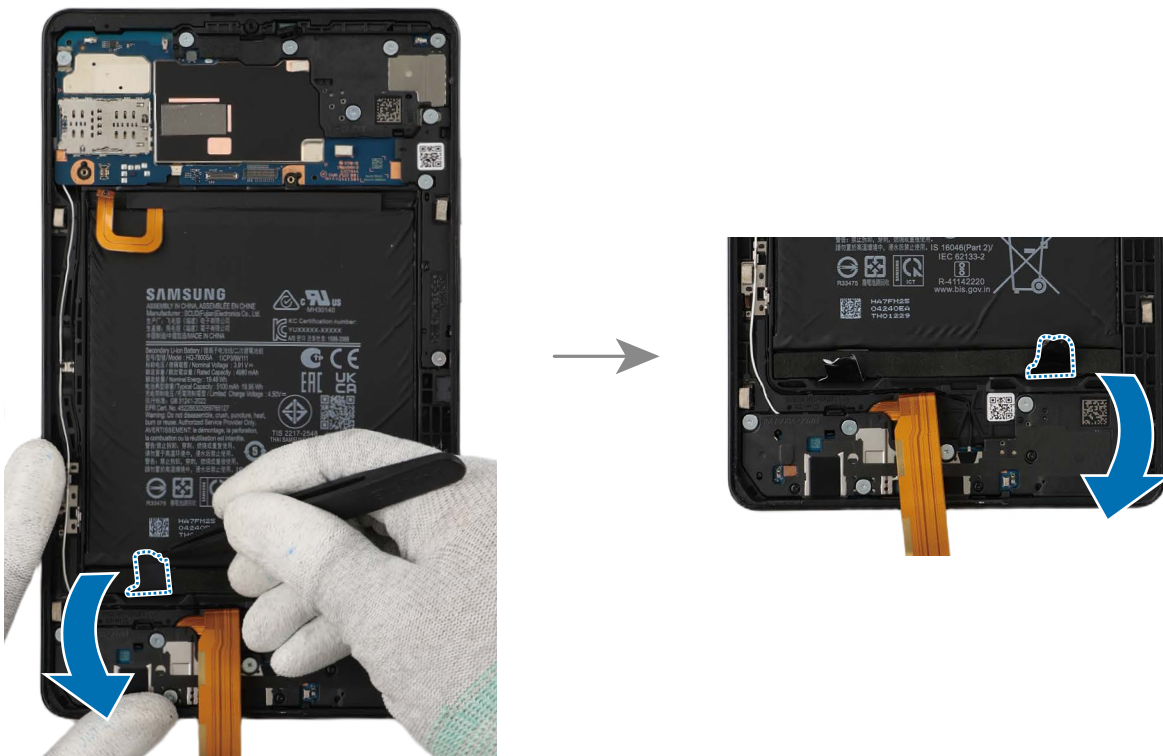
-  • Be sure to first disconnect the battery connector for your own safety.
- The separated battery may be damaged. Do not use it again.
-  • When removing the connectors, be careful not to damage the cable.
- Be careful not to damage the near components.

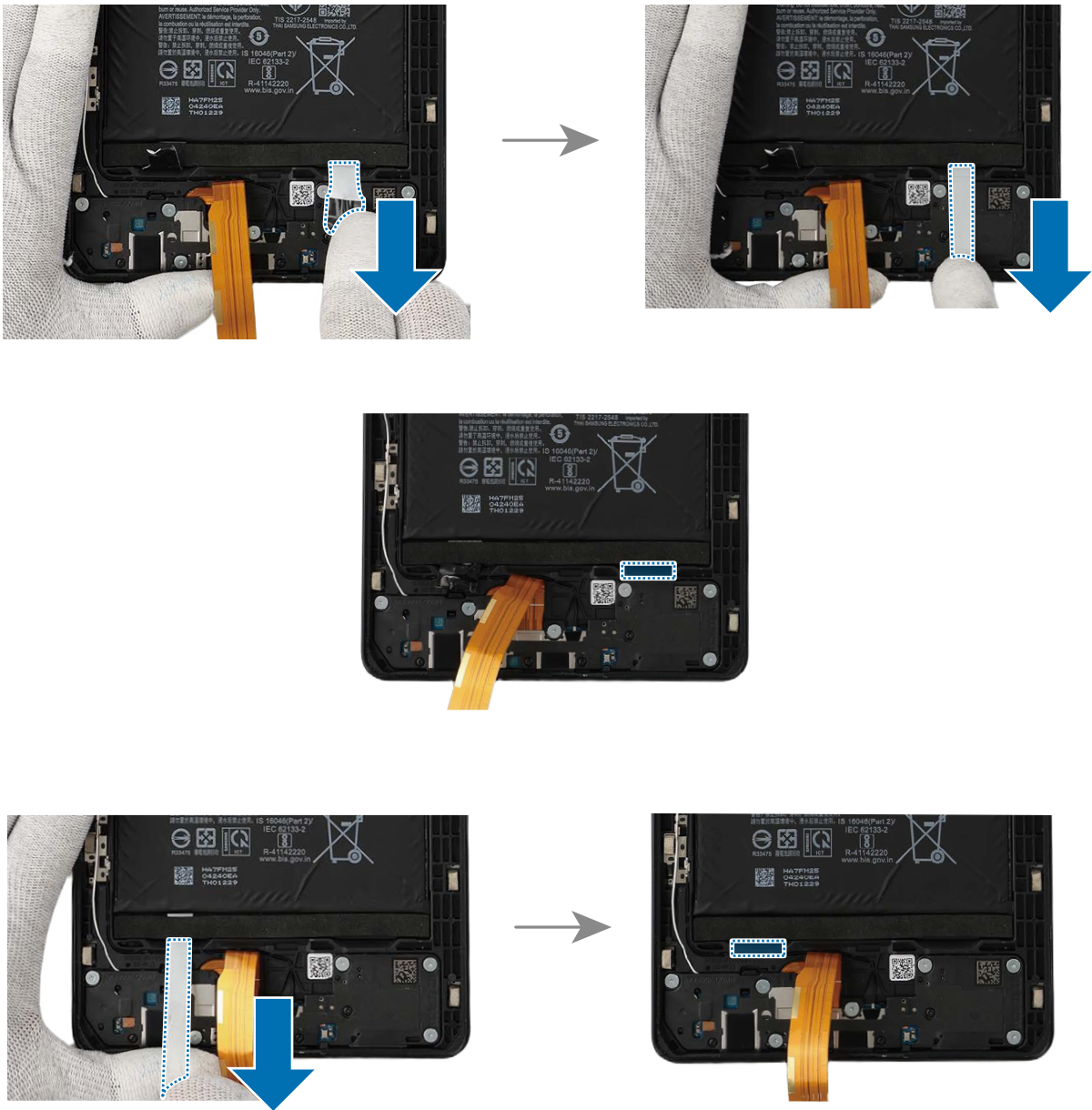


- 2 First, separate the adhesive tape from the battery using the tweezers. Using your fingers, hold the battery tape handle attached to the back cover module and strongly pull it out from the back cover module. Pull the all tape handles out in the same way and remove the all tapes attached under battery. Then, grab the battery with fingers and remove it completely.



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



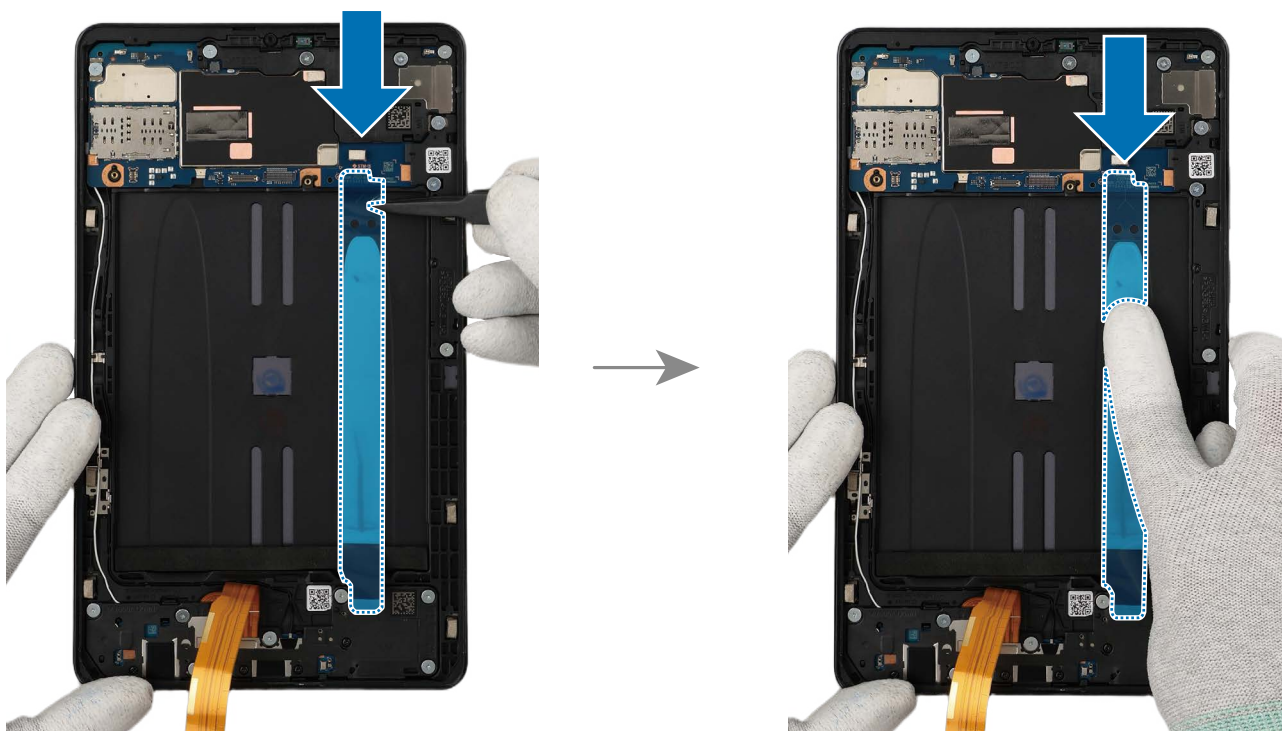


Reassembly

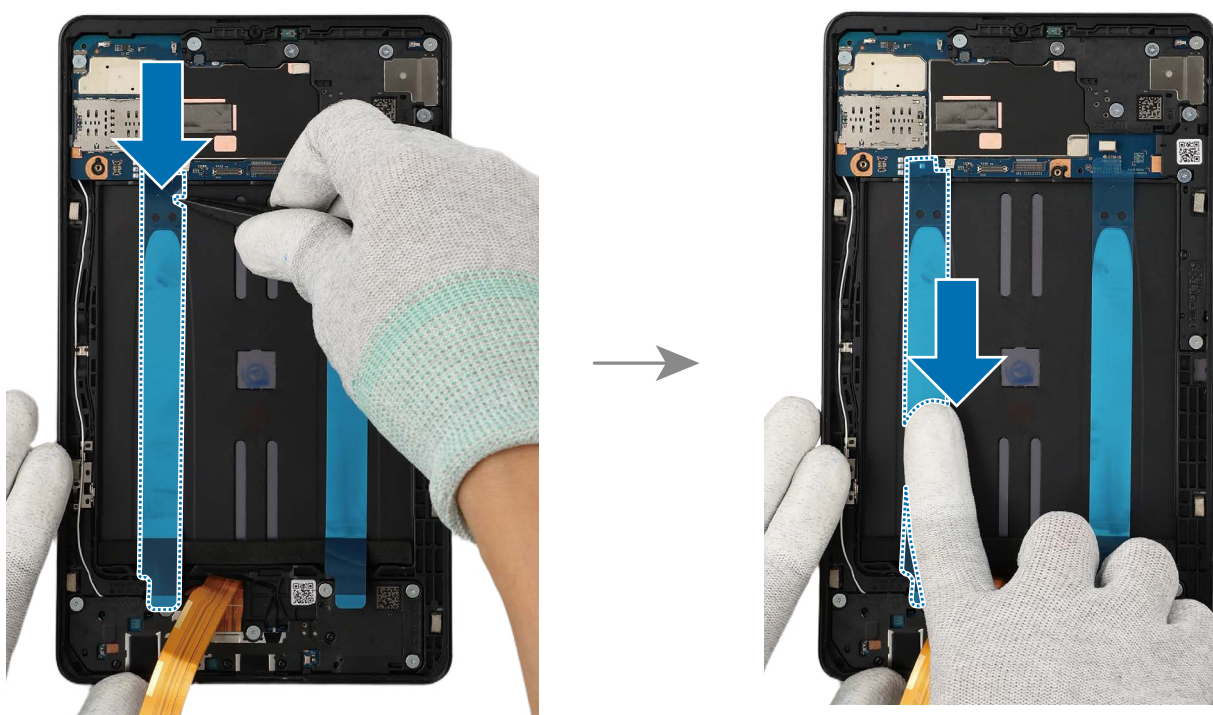
 Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

1 Remove the release film from the new battery adhesive tape and attach it carefully to the exact position of the back cover module.

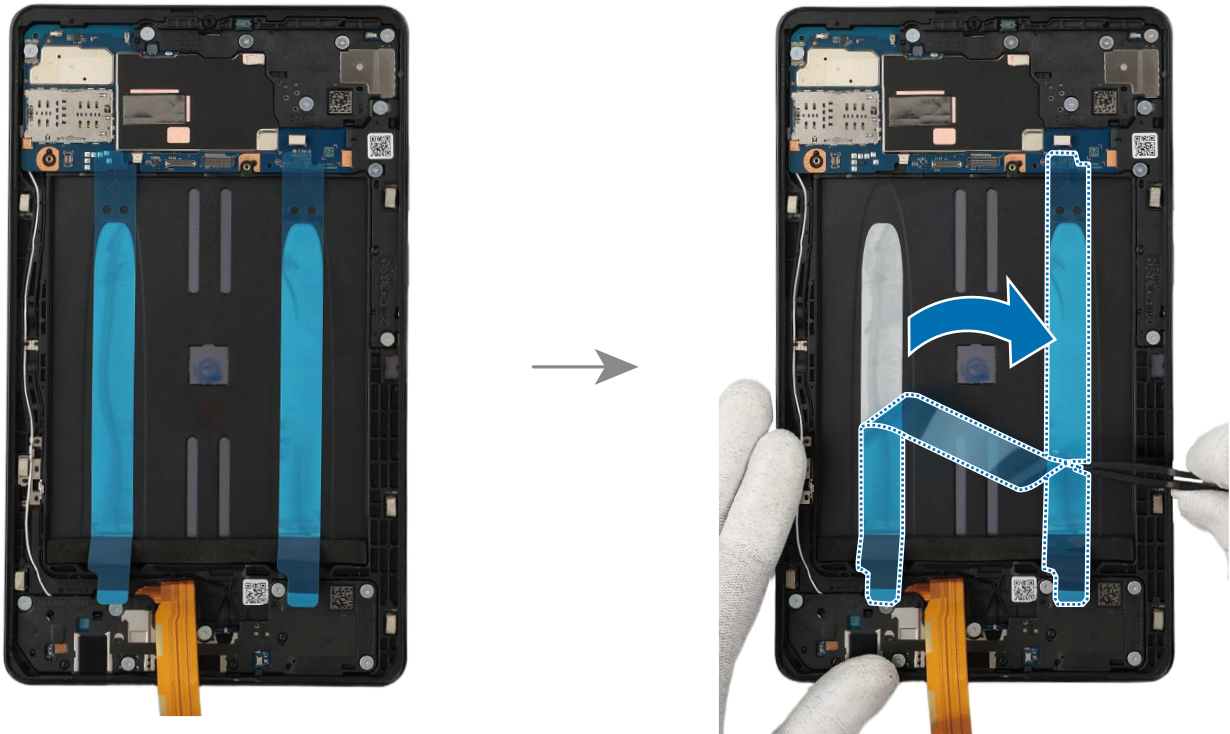
 Be careful not to damage the device and the near components.



- 2 Gently press down the attached tape to ensure a secure fit.



- 3 Attach all battery adhesive tapes to the back cover module and gently press down the tapes to ensure a secure fit. Then remove all release films carefully.



- 4 With the battery connector on the top, carefully place the battery based on the upper side of the battery. Assemble the battery to the exact position of the back cover module using your fingers.



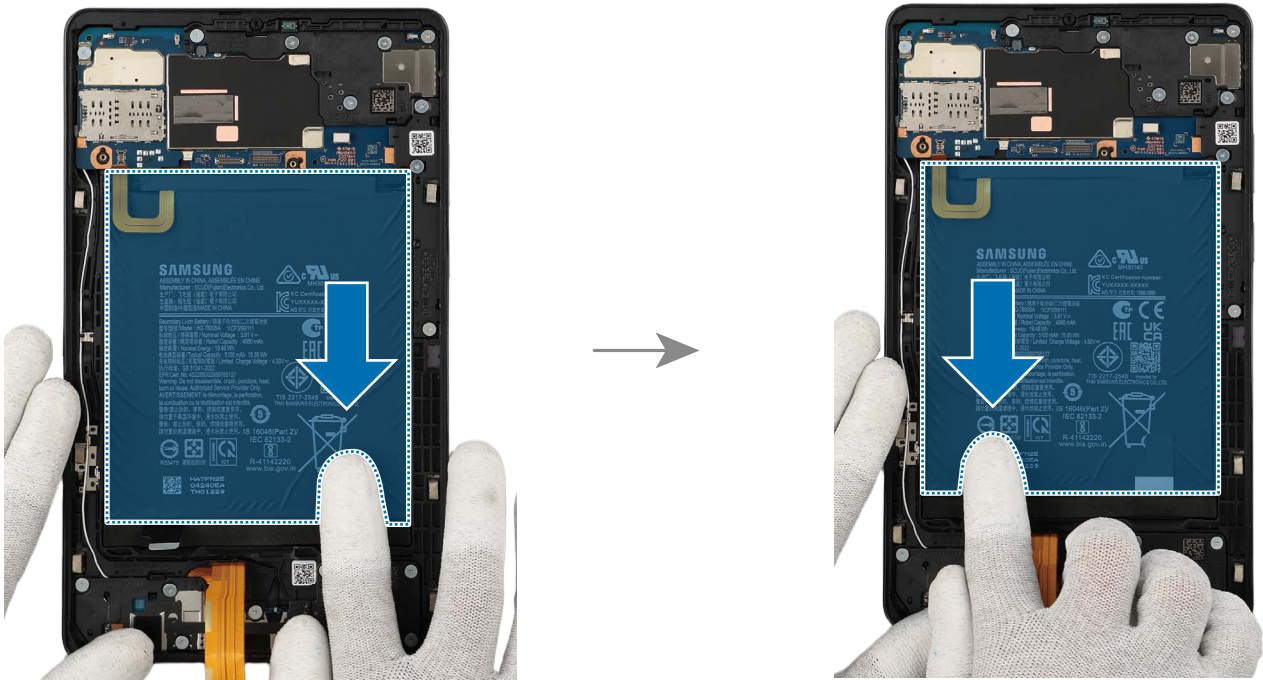
Be careful not to damage the battery.



- 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.



- 5 Attach battery adhesive tapes to the battery and gently press down the tapes to fully attached. Then press the battery with your fingers softly so that the battery can be attached well.



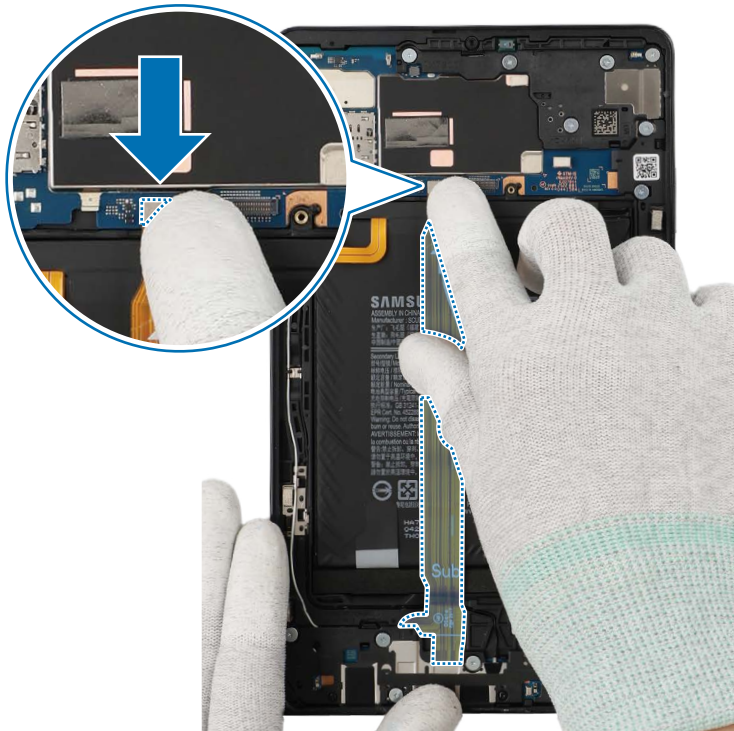
- 6 If you can rent a toolkit for self-repair service, check for the steps of the [Battery Press](#). You can further press the fully assembled battery using the appropriate tool.



- 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 are currently available only in limited countries.

7 Connect the CTC FPCB cable connector to the main board.

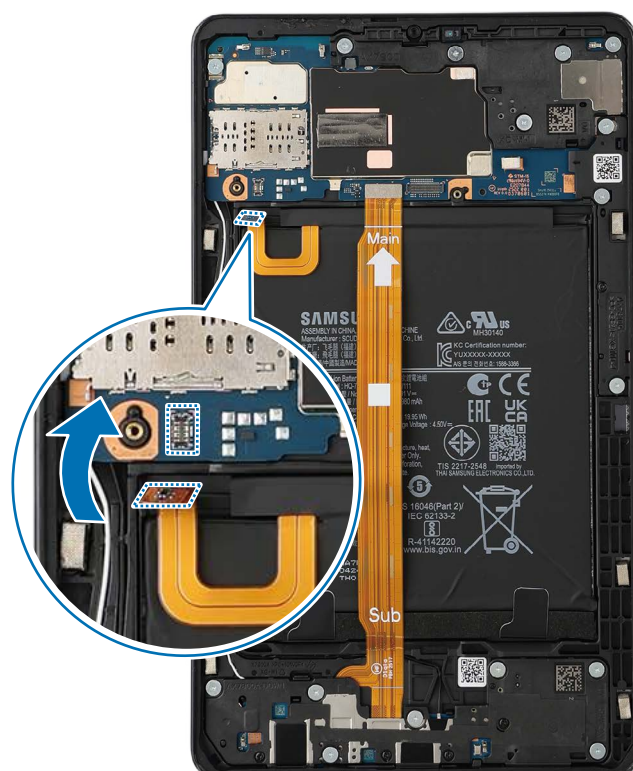
⚠ Be careful not to damage the main board and the near components.



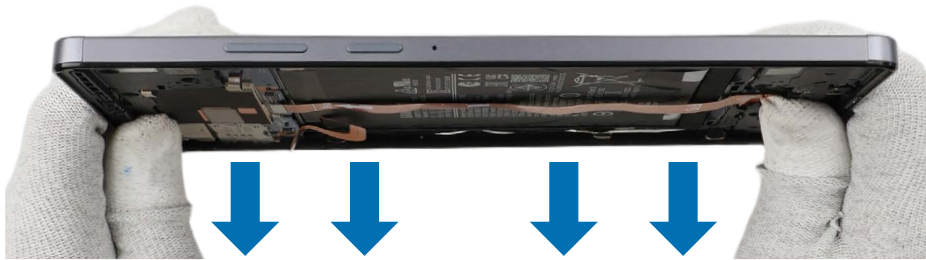
8 Connect the battery connector to the main board.

⚠ Be careful not to damage the battery.

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



- 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 back of the device facing down to remove any remaining screws.



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

After reassembling

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

Press



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

Before pressing,

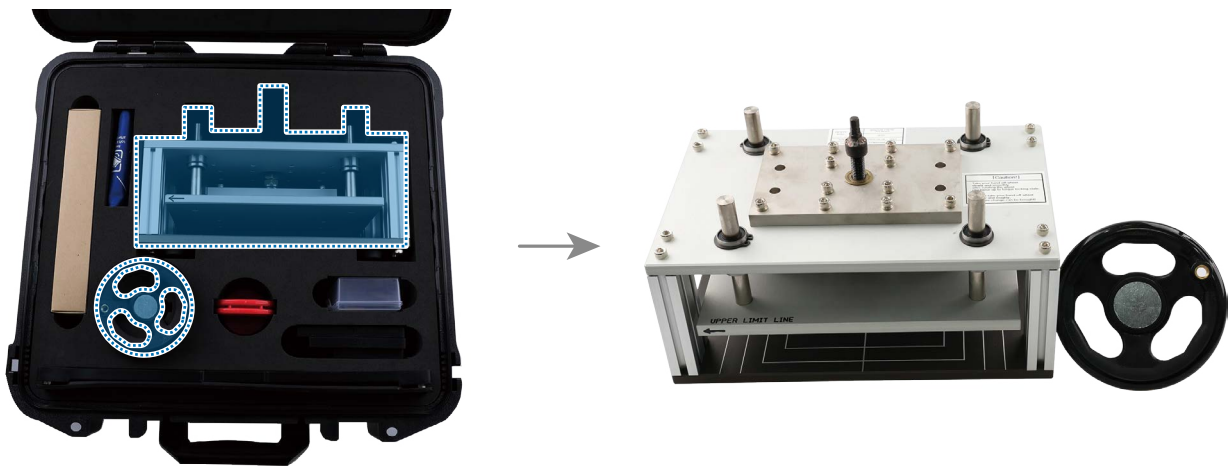
- Using the press tray, you can further press the fully assembled the screen and battery.
- Prepare all necessary press tools and make sure to wear the appropriate safety equipment for your safety.
- Ensure that the device is fixed on a soft and flat surface.

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.

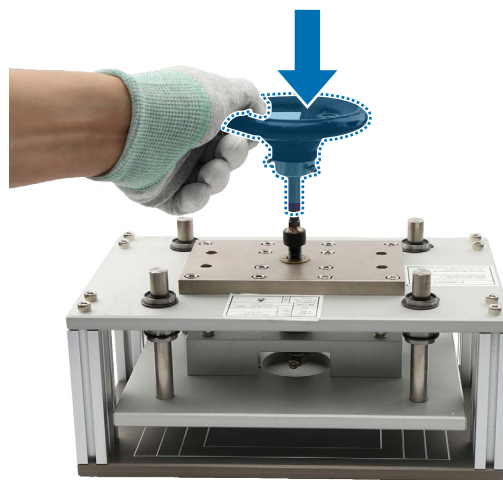
 Keep your hands out of the press fixture to avoid mechanical pinching and injury.

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

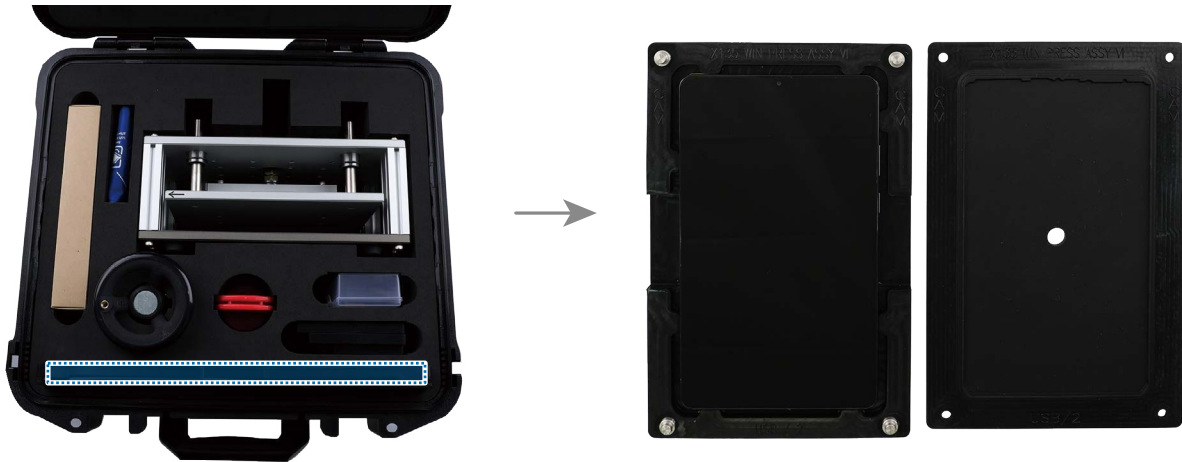


2 Carefully position the torque limit handle horizontally at the top of the press fixture.

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



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



- 4 Place the screen facing up, and then place the device on the bottom press tray position.

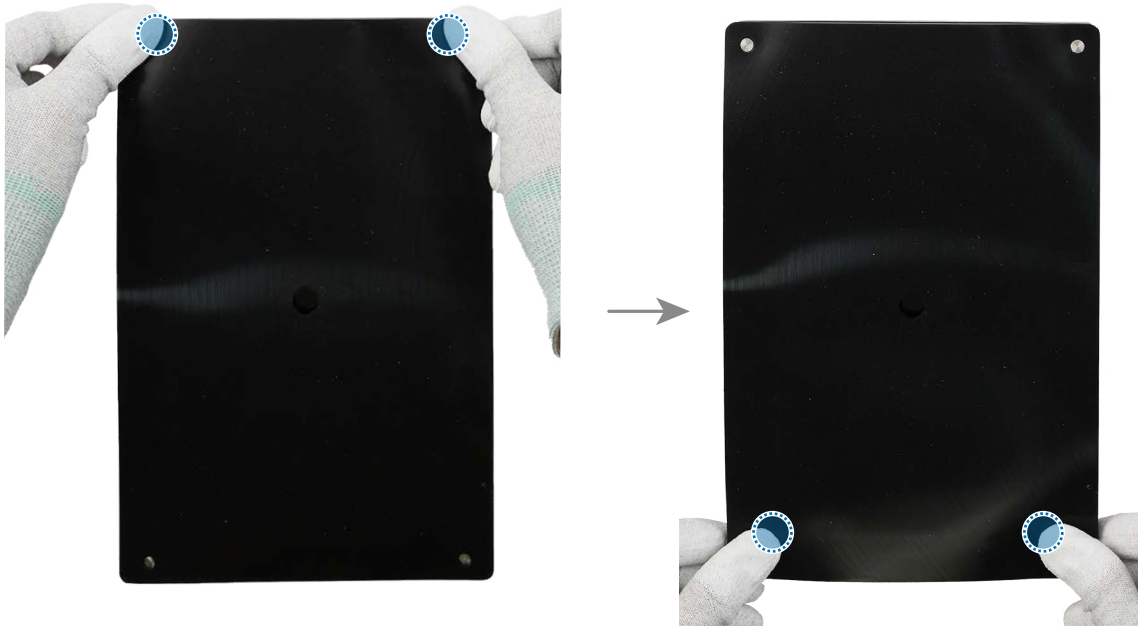


- 5 Using your fingers, press all edges carefully and make sure the device is completely secured to the bottom tray.

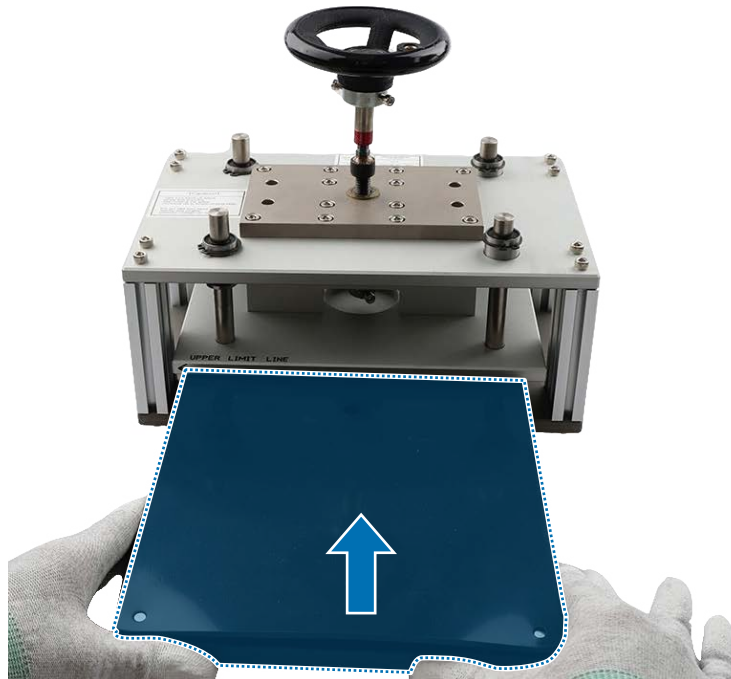


- 6 Carefully place the top press tray on the bottom press tray and gently press on all corners of the tray to secure it.

⚠ 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.



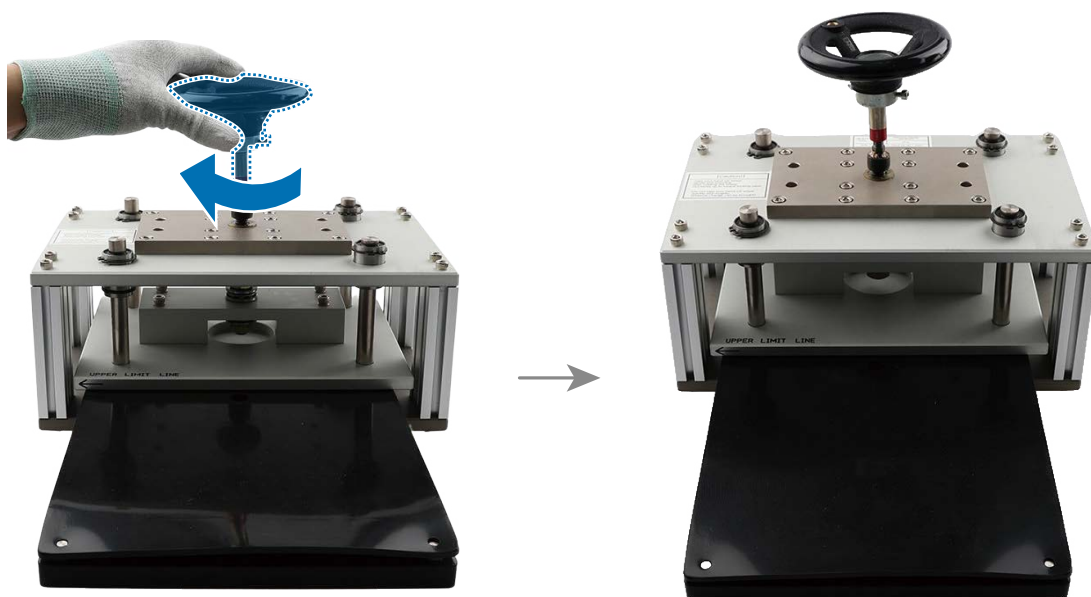
- 8 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 30 seconds.



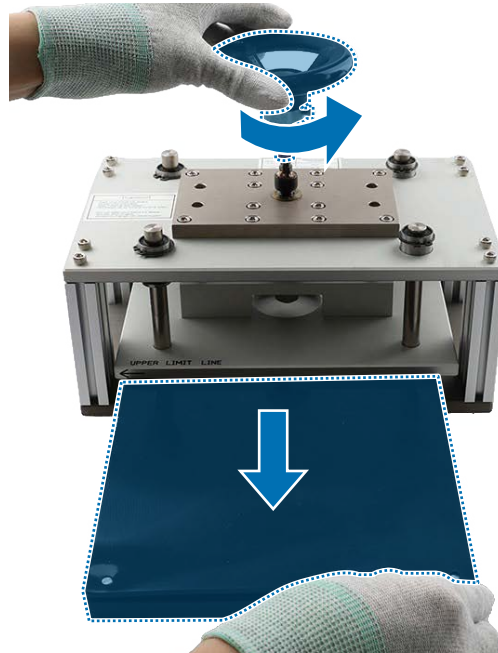
Keep your hands out of the press fixture to avoid mechanical pinching and injury.



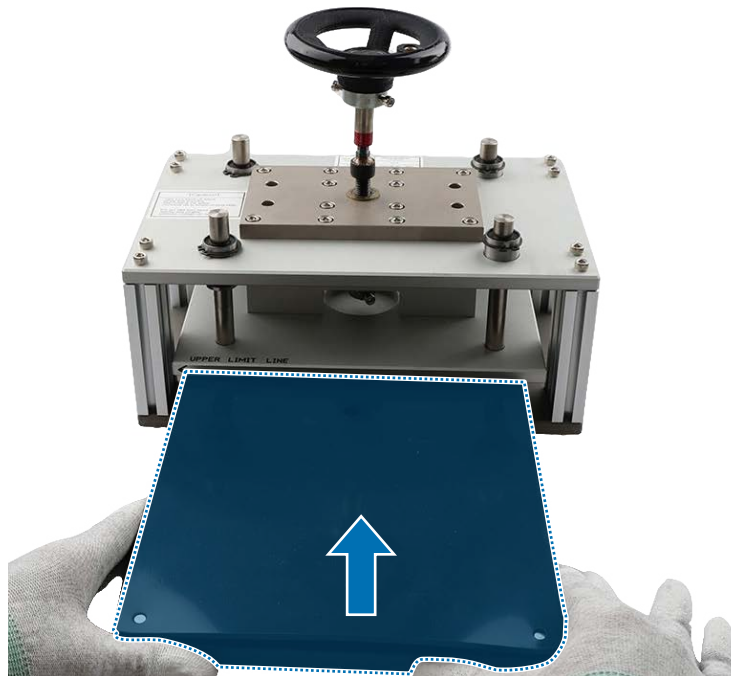
When you reach the required maximum force (1N), a sound is made from the handle if you turn the handle.



- 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.



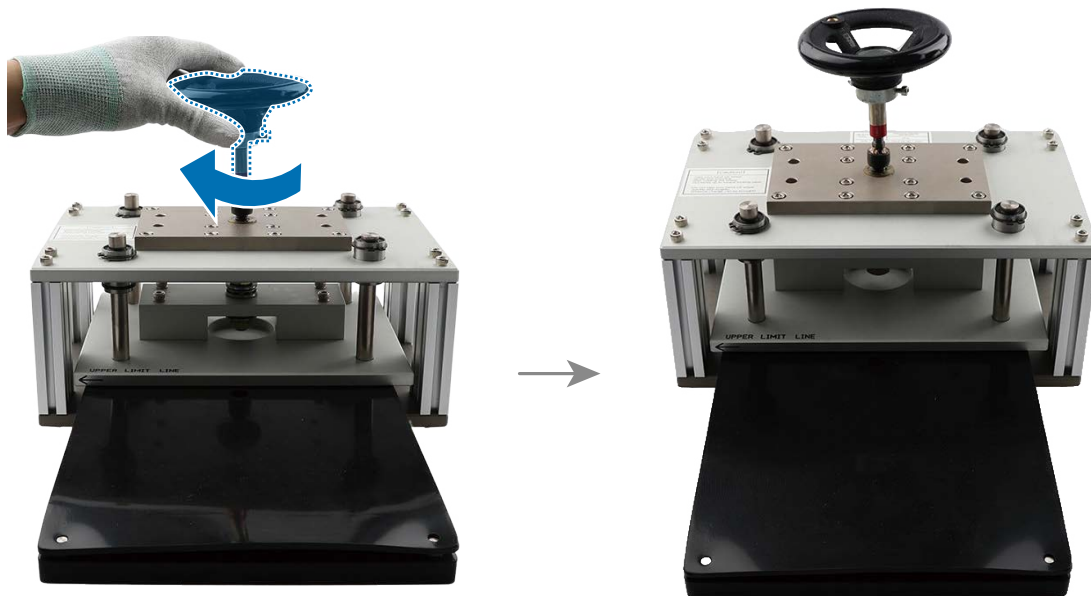
- 10 Position the bottom half of the press tray with the device lengthwise in the centre of the press fixture.



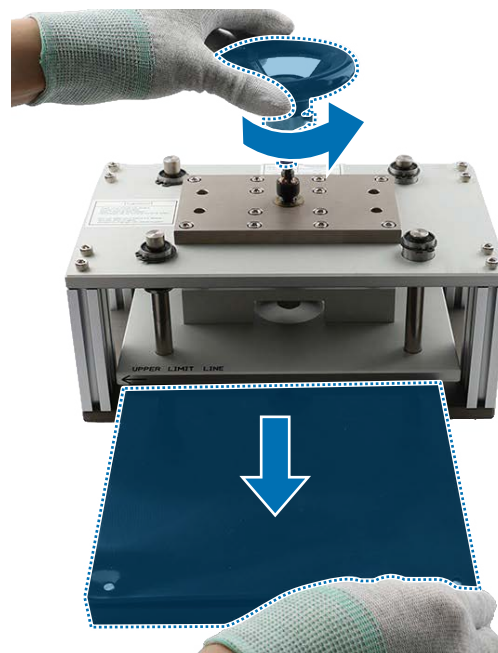
11 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray again for 30 seconds.

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

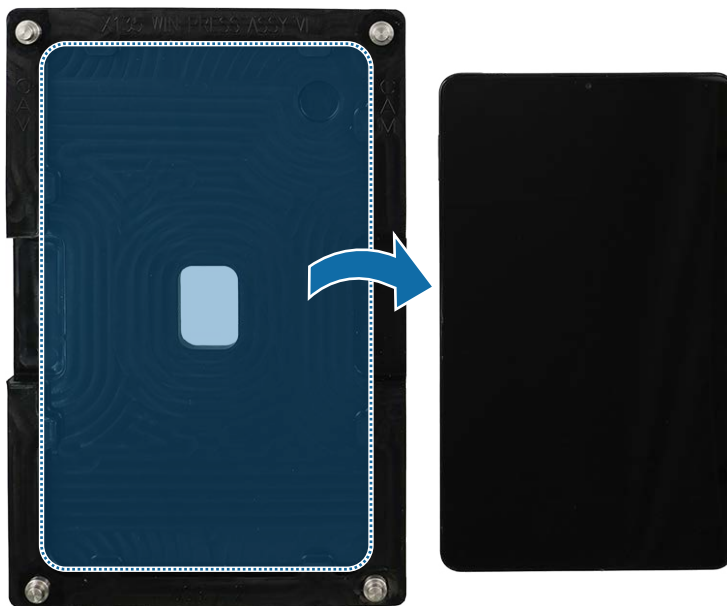
 When you reach the required maximum force (1N), a sound is made from the handle if you turn the handle.



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



- 13 Remove the device carefully from the tray.



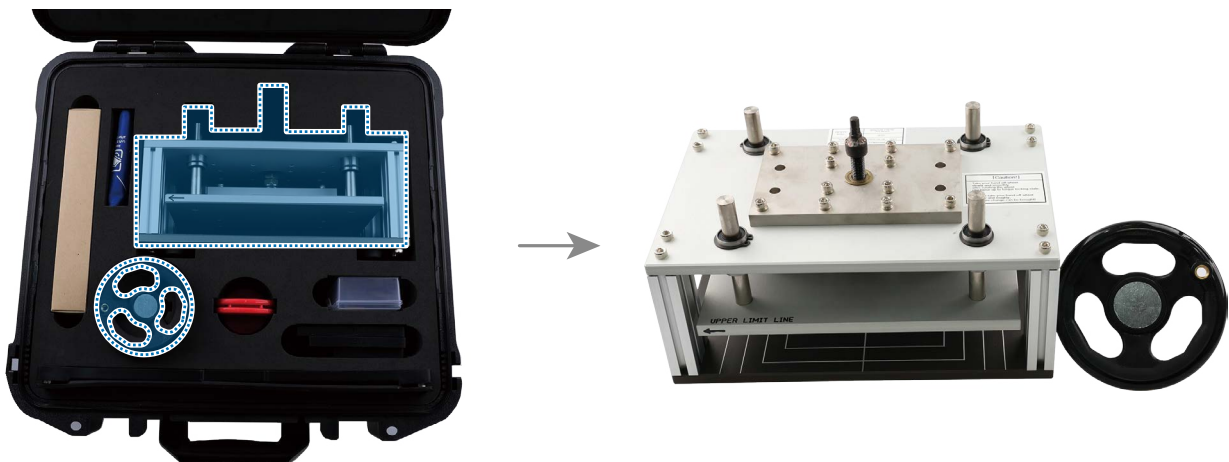
Battery Press

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

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

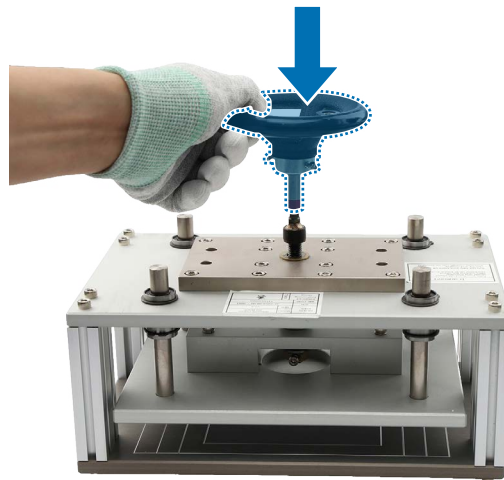
- 
- This tool is only available to use by the rental of tool kit that contains a complete set of the tools for self repair service.
 - Availability of rental service may vary depending on the country and is currently available only in limited countries.
 - A rented tool kit packaging may have different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



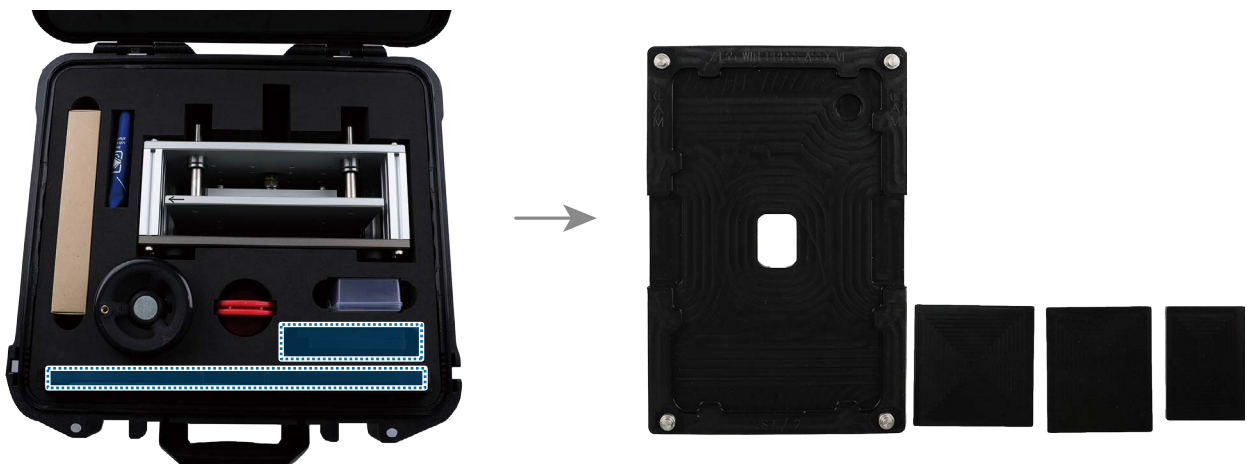
2 Carefully position the torque limit handle horizontally at the top of the press fixture.



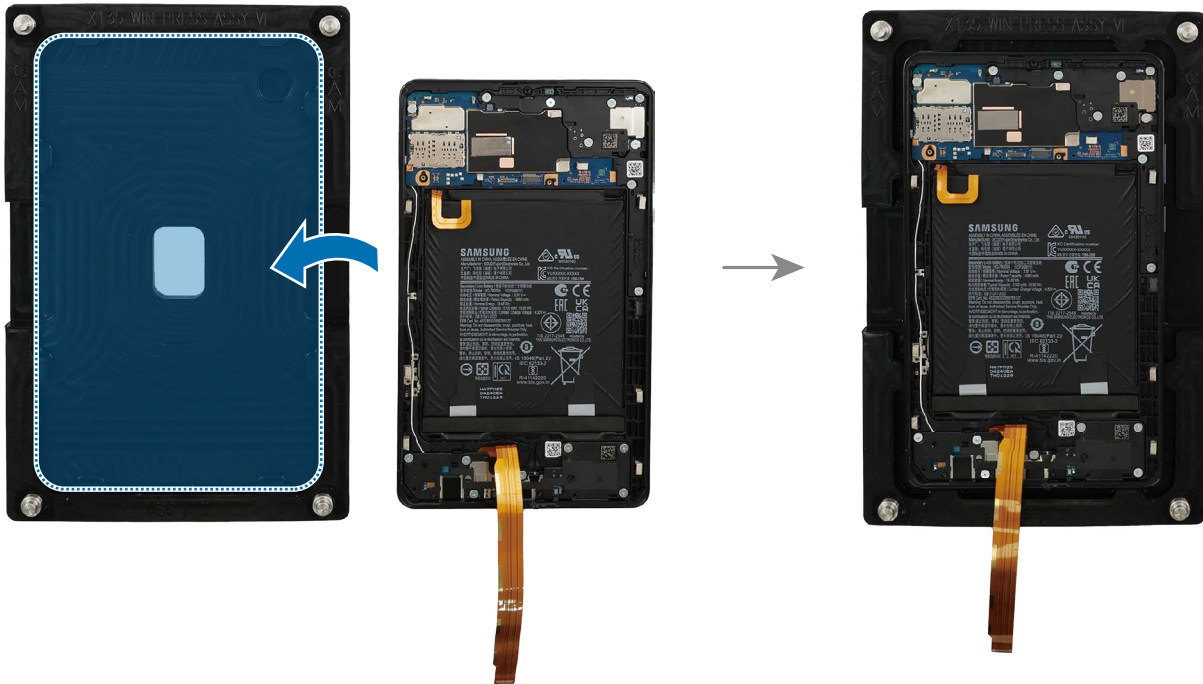
Keep your hands out of the press fixture to avoid mechanical pinching and injury.



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



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



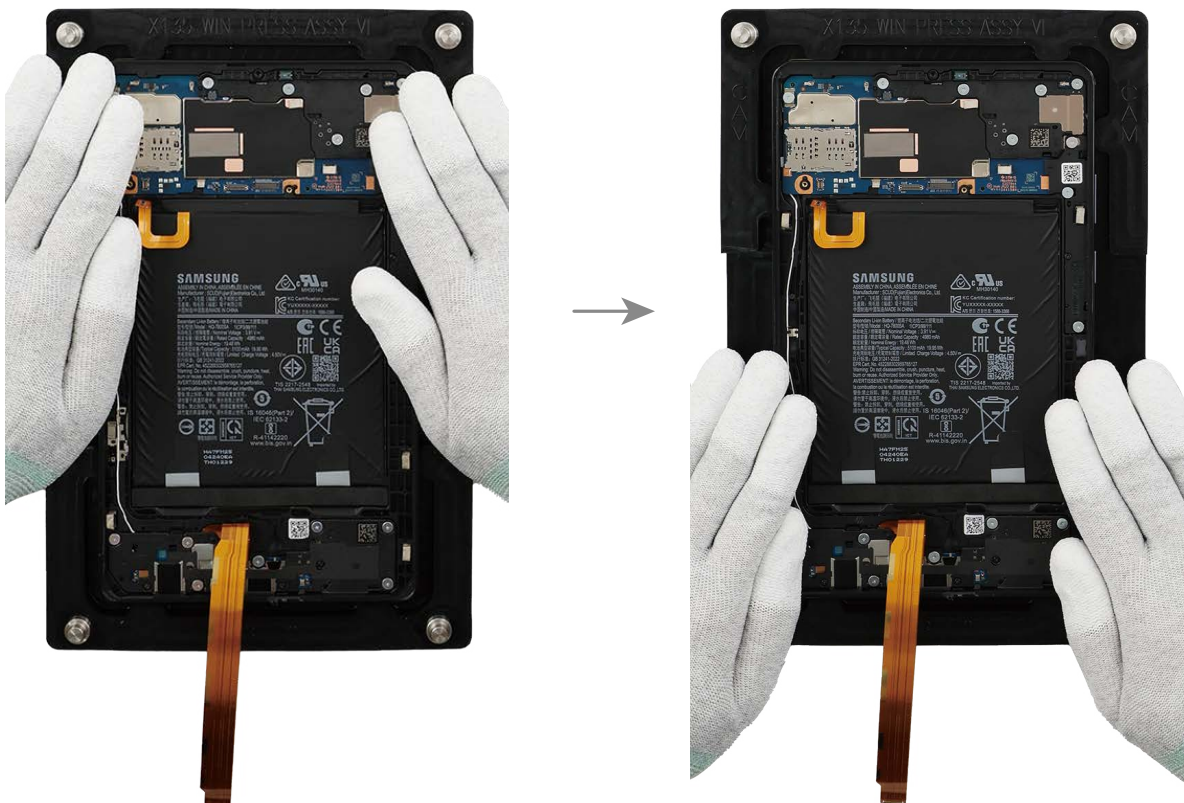
- 5 Using your fingers, press down the all edges carefully and make sure that the device is completely secured to the bottom tray.



Be careful not to damage the battery.

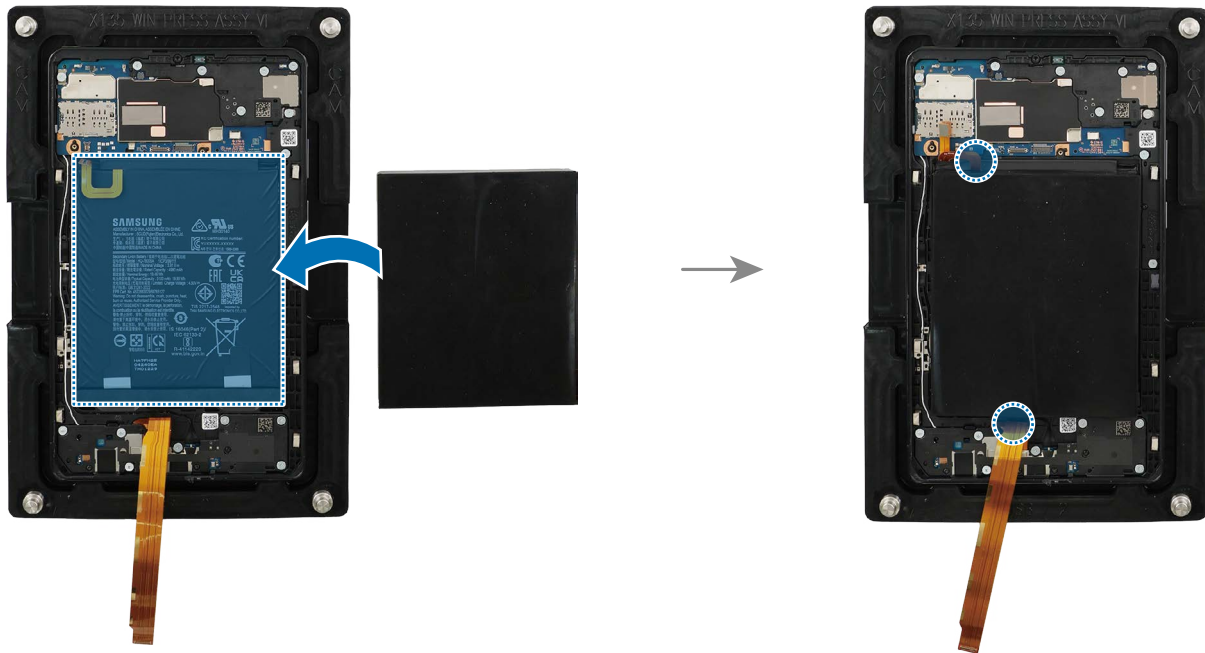


Be careful not to damage the device and the components.



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.
- The FPCB cables have to be positioned outside so as not to interfere when compressing the battery.



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.

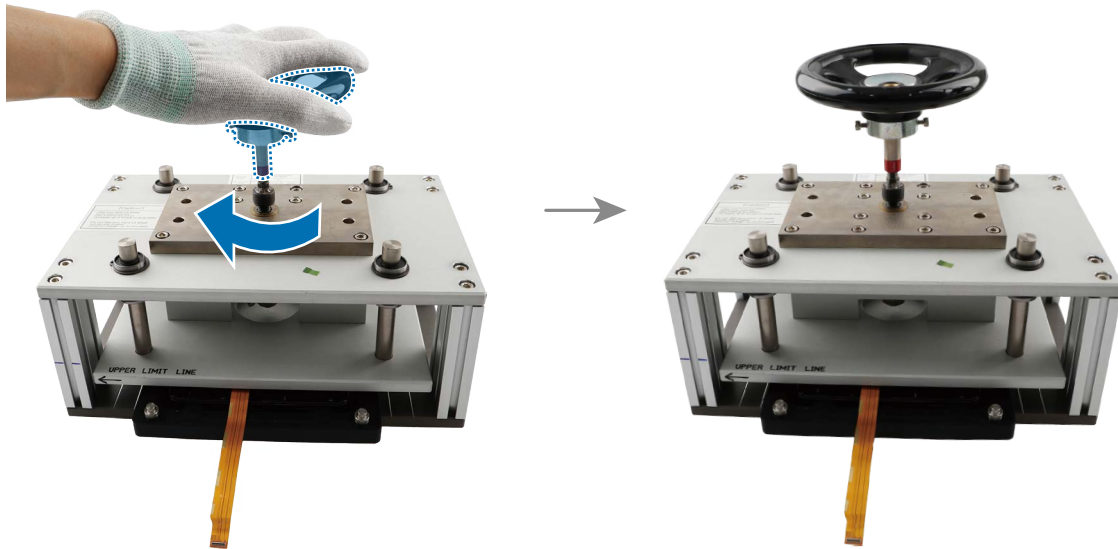
- ❗ • FPCB cables and connectors have to be positioned outside so as not to interfere when pressing the battery.
- Be careful not to damage the cables and the near components
- Be careful not to move the battery pad out of its position.



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

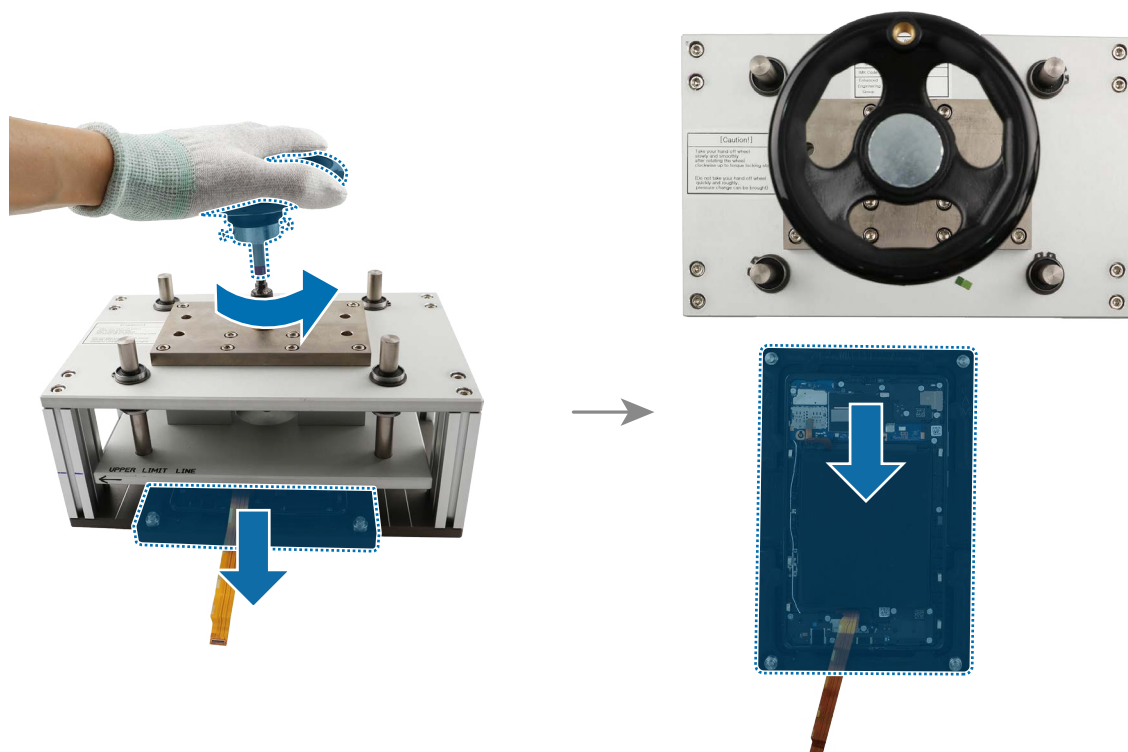
 Keep hands out of press fixture to avoid mechanical pinching and injury.

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

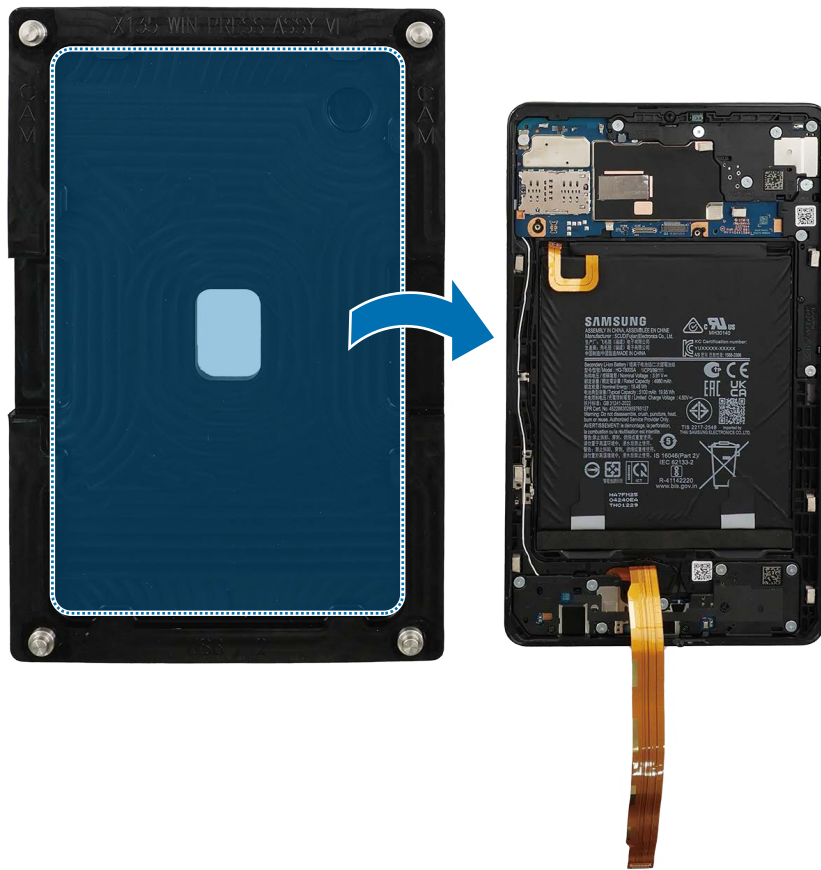


- 9 When the press is completed after 5 seconds, rotate the torque limit handle to the anticlockwise and remove the tray from the press fixture.

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

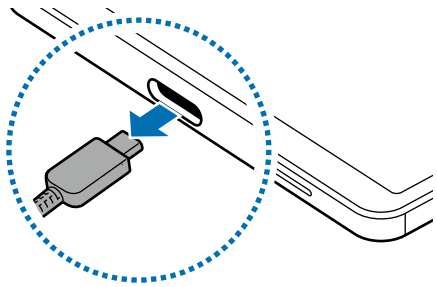


10 Remove the device carefully from the bottom tray.



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 Back Cover 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

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