

REPAIR GUIDE

SM-X520
SM-X526B
SM-X528U

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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

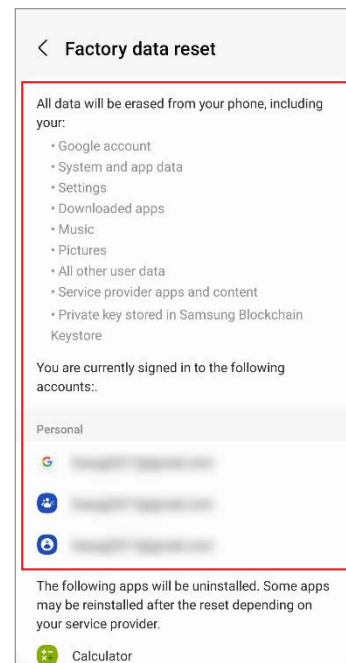
The factory data reset restores the device's default settings. This erases all data, including files and downloaded apps, from the device.



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.

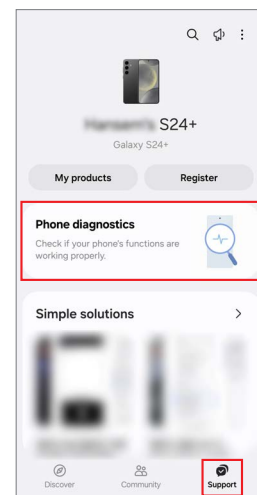
Device Diagnostics

- 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.

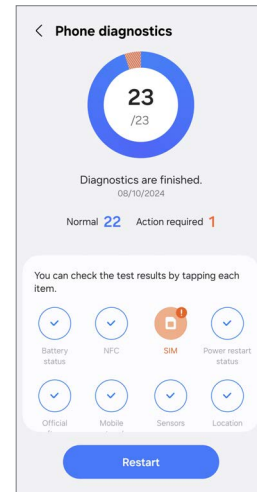


3 Tap **Test all**.

The device performs a test on all items.

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

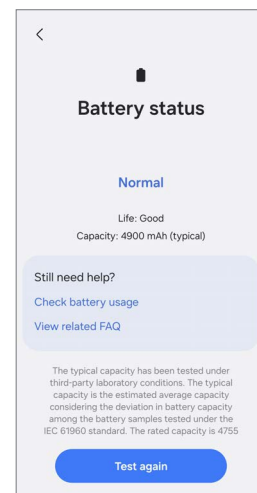
- Tick mark: Working normally
- Exclamation mark: Needs further inspection
- The test proceeds automatically, but you may need to follow the on-screen instructions depending on the test item. Keep an eye on the screen during testing to ensure smooth progress.
- If the exclamation mark appears on any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



Test Items

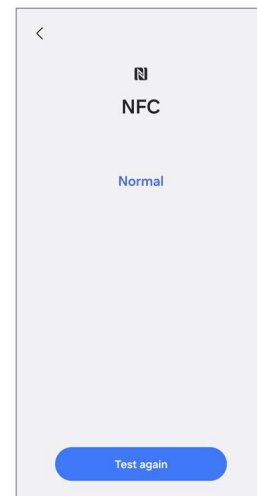
Battery status

Check the battery life and capacity.



NFC

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

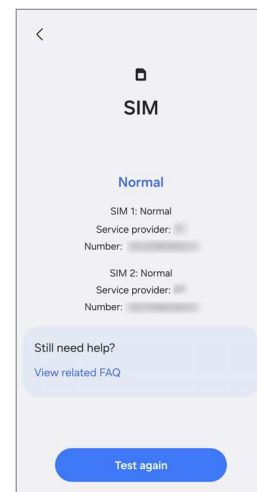


SIM

Check whether the SIM is working normally.

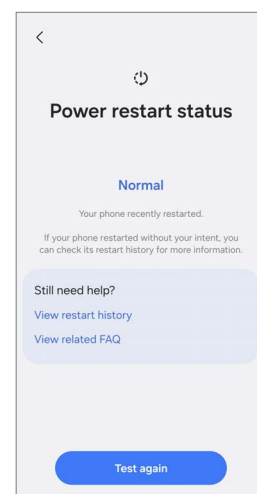


If the test result is not **Normal**, remove the SIM card from the SIM card tray and replace it. If possible, try again with another SIM card.



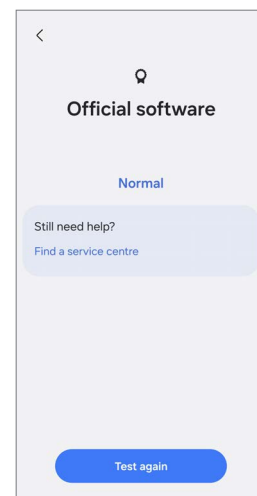
Power restart status

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



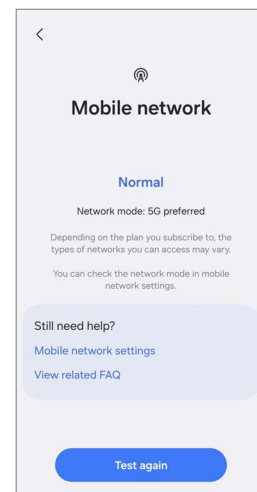
Official software

Check whether the official software is being used.



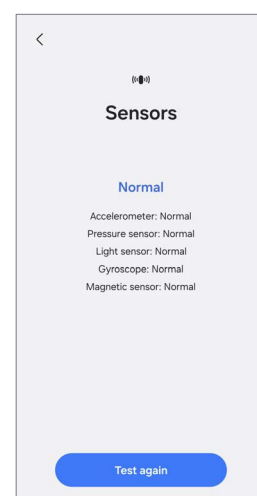
Mobile network

Check whether your mobile network is working normally.



Sensors

Check whether the sensors are working normally.

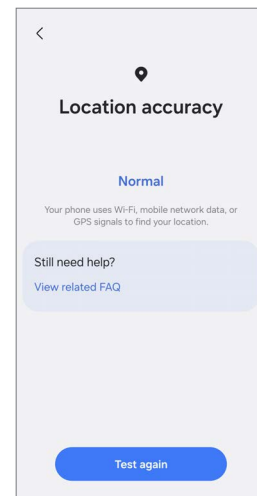


Location accuracy

Check whether the location feature is working normally.



The results might be more accurate when you test outside.

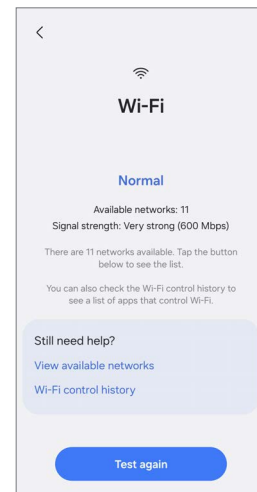


Wi-Fi

Check whether the Wi-Fi feature is working normally.



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

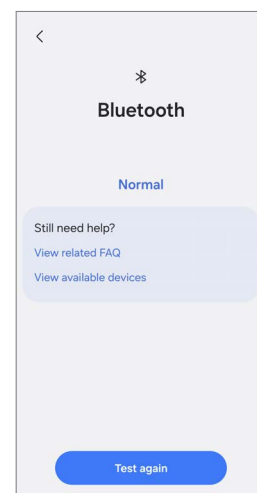


Bluetooth

Check whether Bluetooth can search for other Bluetooth devices.

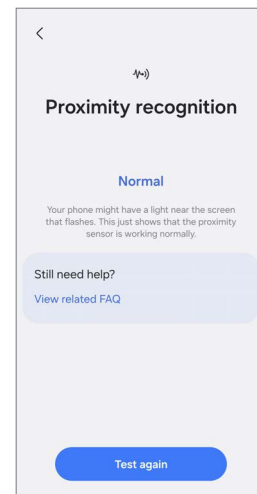


To test this feature, the Bluetooth feature must be activated.



Proximity recognition

Check whether the proximity recognition feature is working normally.

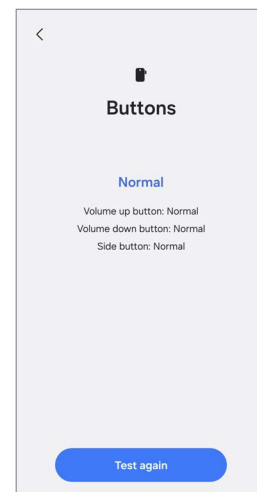


Buttons

Check whether the buttons are working normally.

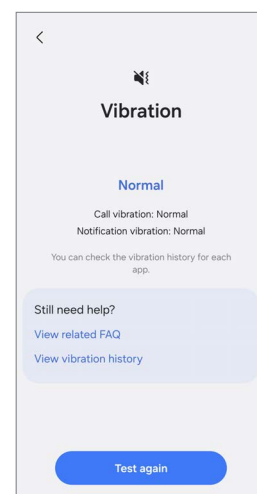


Make sure that the buttons are not contaminated to get more accurate test results.



Vibration

Check whether the vibration feature is working normally.

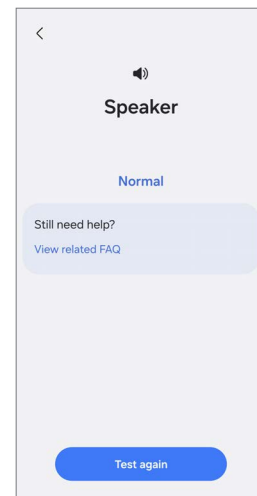


Speaker

Check whether the speakers are working normally.



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

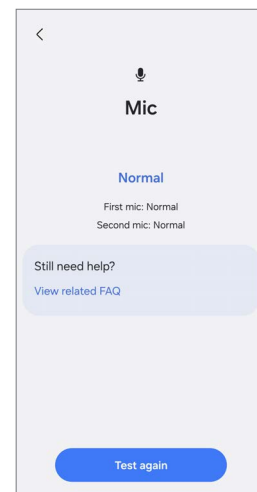


Mic

Check whether the microphones are working normally.



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

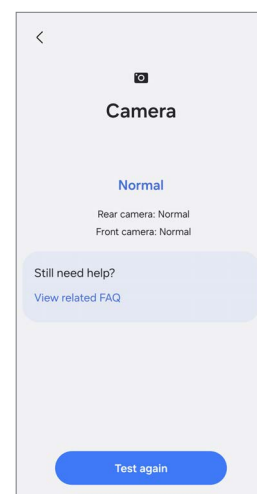


Camera

Check whether the cameras are working normally.



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

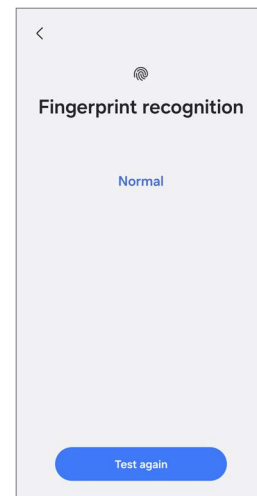


Fingerprint recognition

Check whether the fingerprint recognition sensor is working normally.



To test this feature, your fingerprint must be registered.

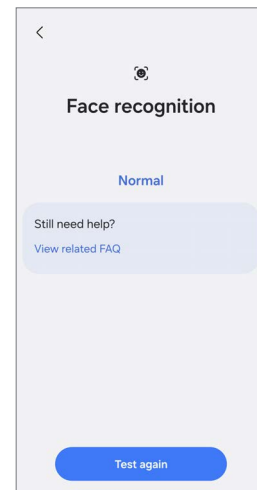


Face recognition

Check whether the face recognition sensor is working normally.



To test this feature, your face must be registered.

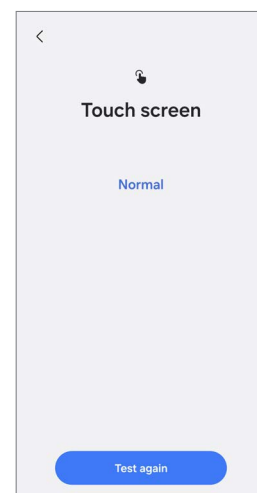


Touch screen

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



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

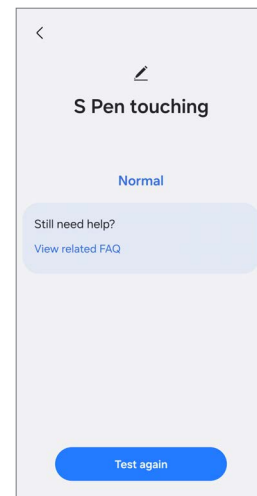


S Pen touching

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



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

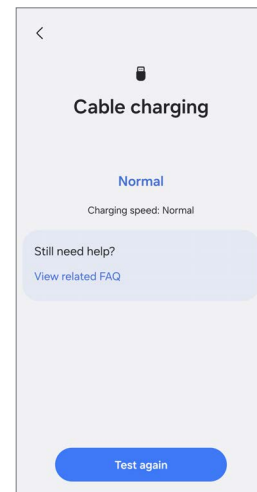


Cable charging

Check whether the cable charging feature is working normally.



- Use only Samsung-approved chargers.

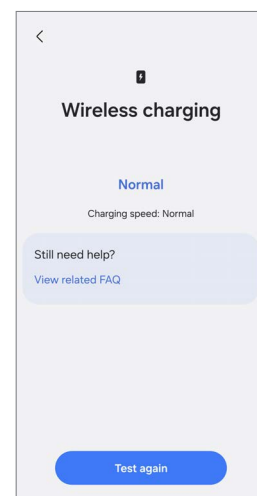


Wireless charging

Check whether the wireless charging feature is working normally.



- Use only Samsung-approved wireless chargers.

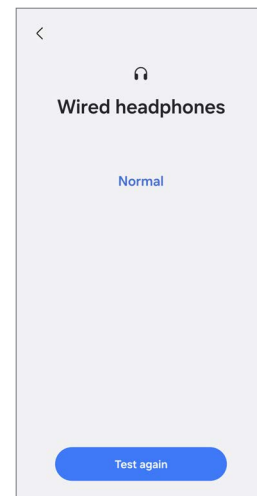


Wired headphones

Check whether the headphone jack recognises the headphones normally.



To test this feature, you must connect headphones.

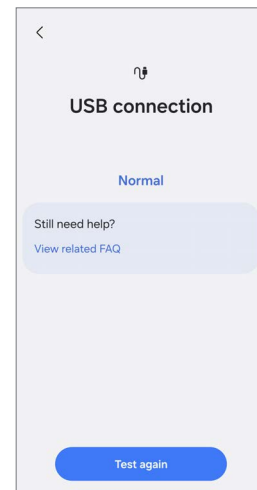


USB connection

Check whether the multipurpose jack recognises the USB cable normally.



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



Calibrations

Calibrations

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

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



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

Used Parts and Calibration Functions in Supported Models

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

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



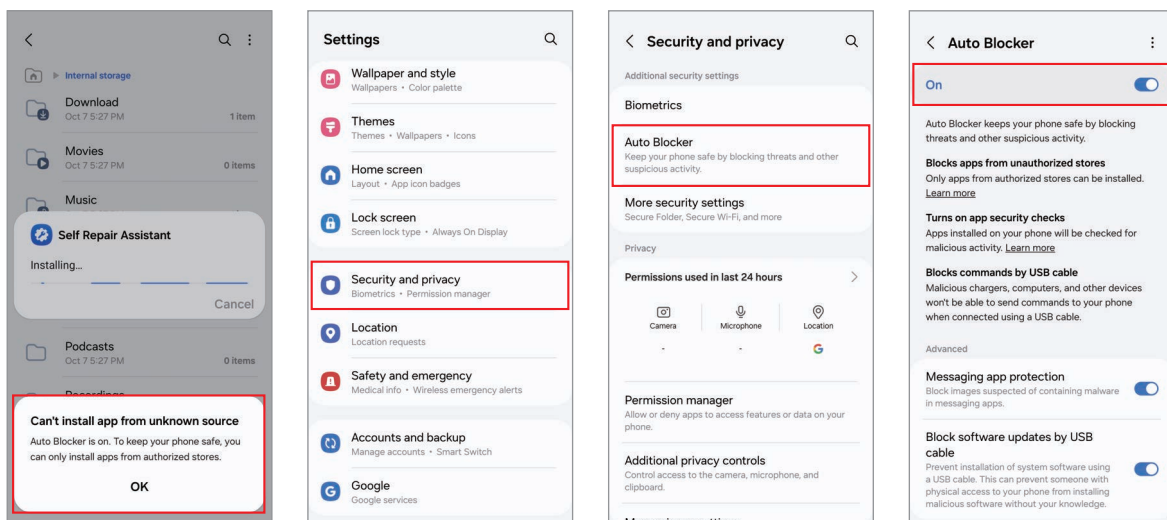
- Depending on the model, the screen module may include batteries. So when the screen module is replaced, the battery also has to be selected and a battery cycle reset must be performed.
- In the Fold models, touch screen panel calibration is performed for both the main and cover screens.
- Digital hall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

Using the Self Repair Assistant App

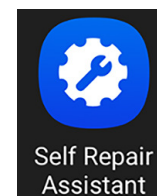
1 Download the **Self Repair Assistant** app from **Galaxy Store**.



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



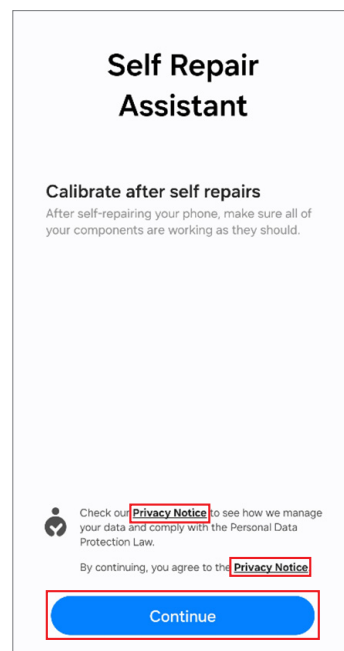
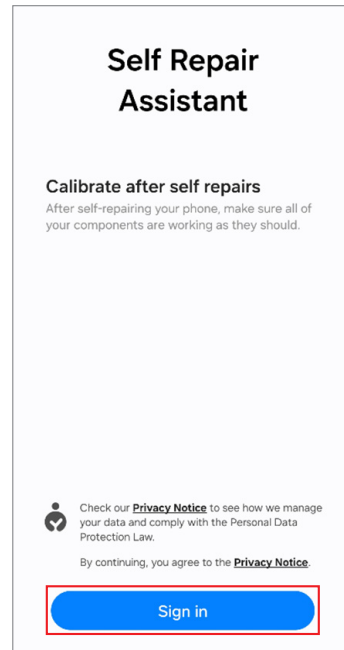
2 Launch the **Self Repair Assistant** app.



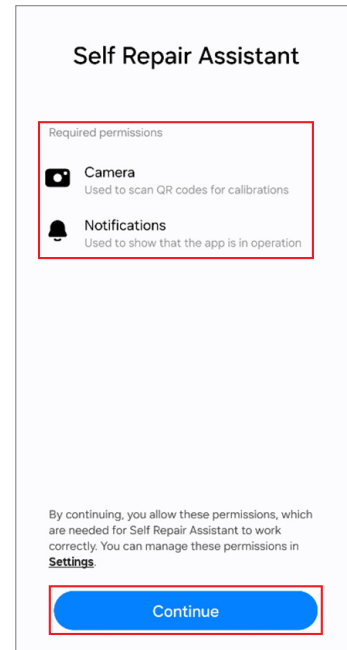
3 Read Privacy Notice and tap **Continue**.



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



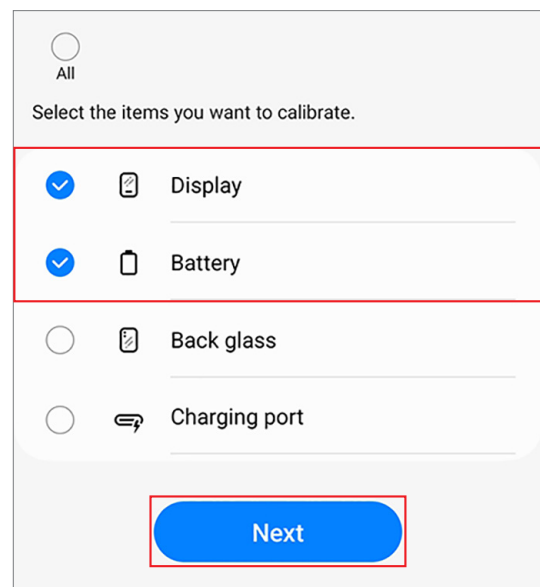
4 Check permissions and tap **Continue**.



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



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



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

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

Optical fingerprint sensor calibration

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

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

Start

Skip

Camera range sensor calibration

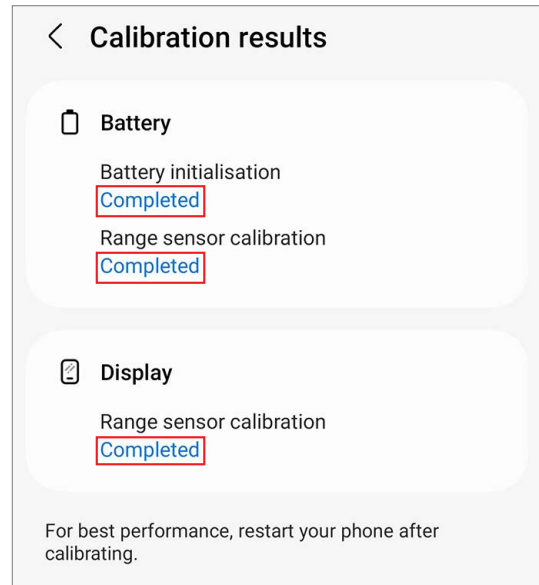
This calibration needs to be done in the dark. Move to a dark room before starting this calibration.

Start

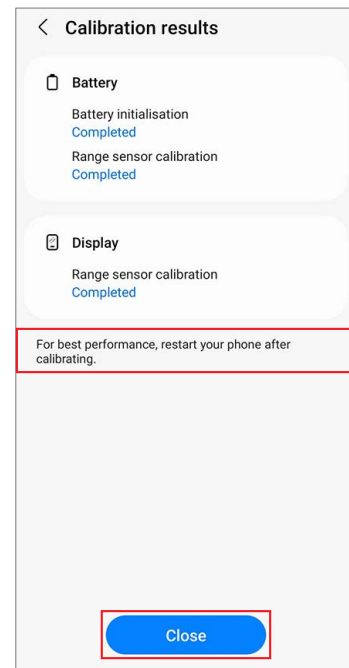
Skip

7 Check the results of each calibration item.

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



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



Optical Fingerprint Sensor Calibration

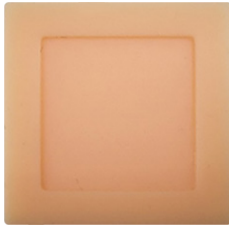
Whenever the screen is replaced, the optical fingerprint sensor must be calibrated to guarantee optimised fingerprint sensor performance for devices that have it.

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



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

White calibration box



Black calibration box



3D fingerprint dummy rubber

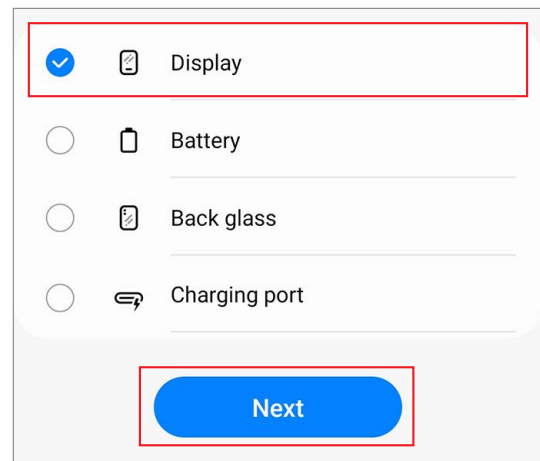


1 Launch the **Self Repair Assistant** app.

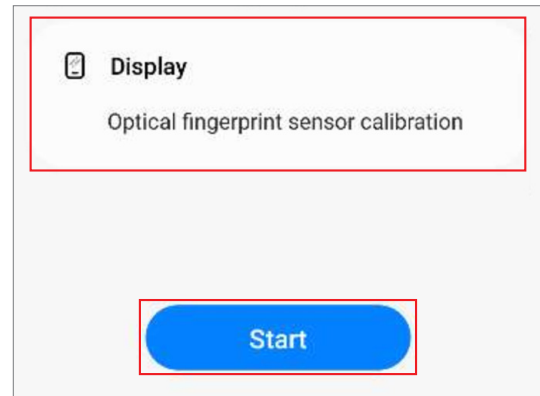
2 Tap **Display** → **Next**.



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

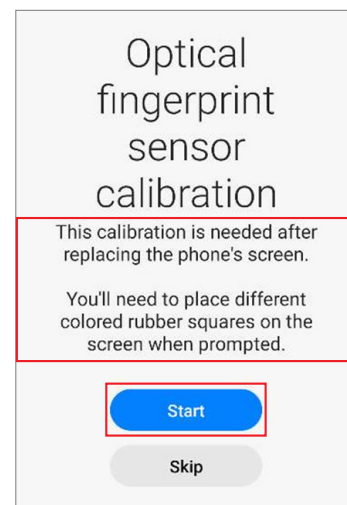


- 3 Check the part and calibration and then tap **Start**.



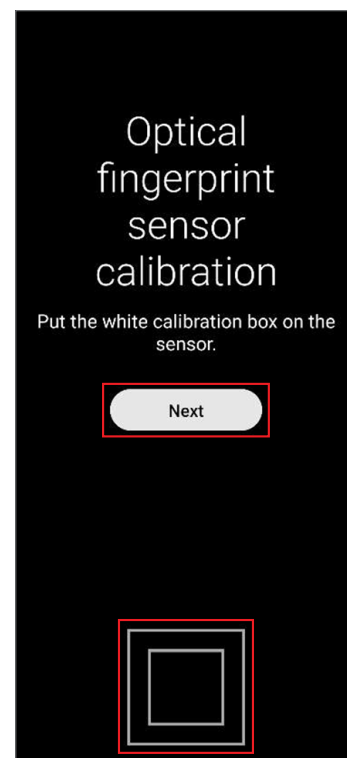
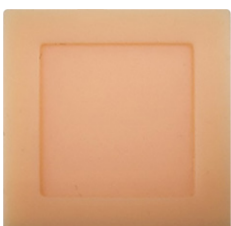
- 4 Read the on-screen instructions and tap **Start**.

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



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

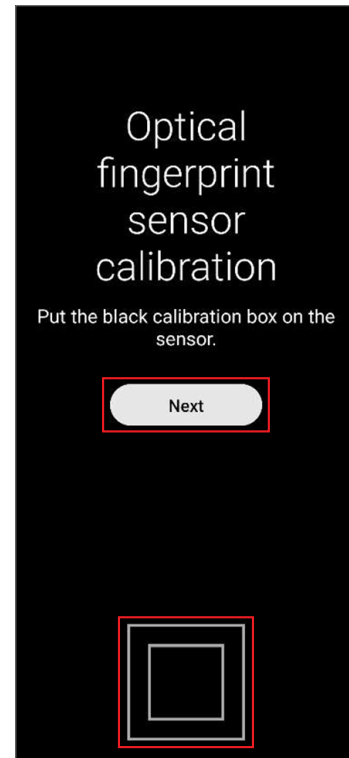
-  The bottom side of the rubber that is shaped like a square should be located on the square guide line.



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



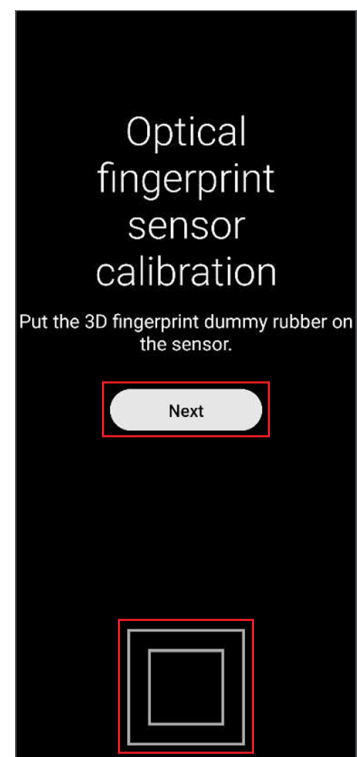
- The black calibration box must be prepared before you start.
- The bottom side of the rubber that is shaped like a square should be located on the square guide line.



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

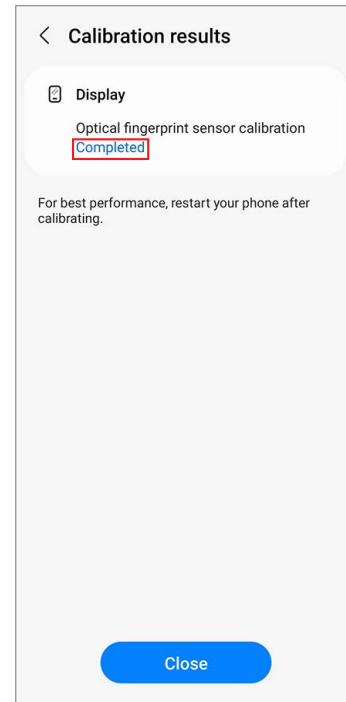


- The 3D fingerprint dummy rubber must be prepared before you start.
- The bottom side of the rubber that is shaped like a square should be located on the square guide line. (Do not place the pattern horizontally on the 3D fingerprint dummy rubber.)



8 Check the result of the calibration.

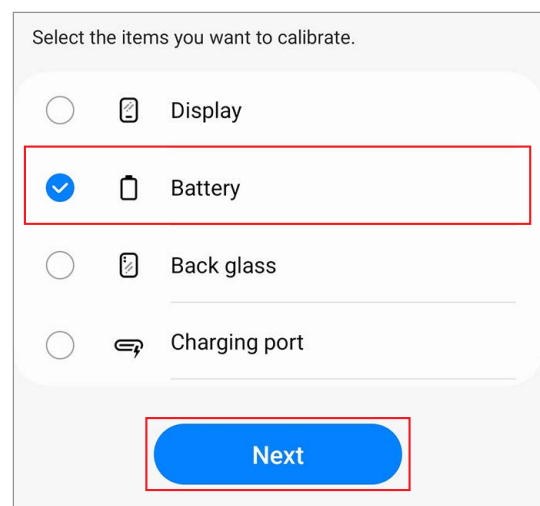
 **Completed** appears only when the calibration is successfully completed. If **Completed** does not appear, try calibrating again.



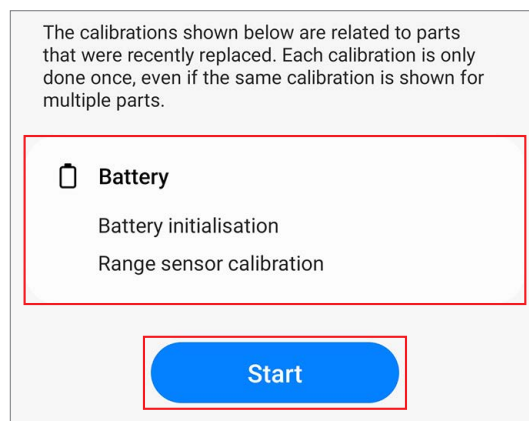
Resetting the Battery Cycle Count

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

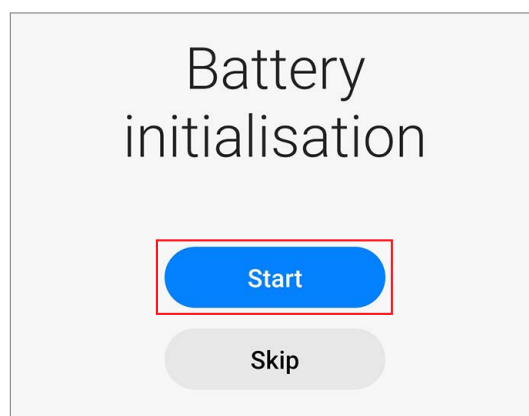
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced. Tap **Battery** → **Next**.



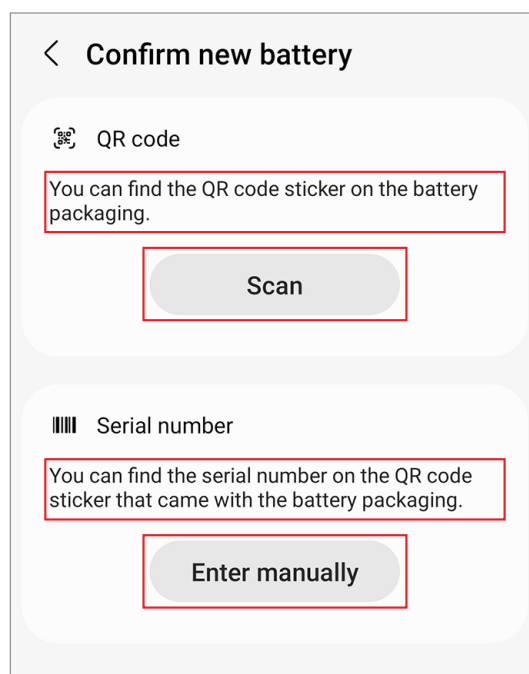
3 Check part and calibration and tap **Start**.



4 Tap **Start**.



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



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

The reset will begin.



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



< Confirm new battery

Battery serial number

- 7 Check the calibration results.

< Calibration results

Battery

Battery initialisation
Completed

Range sensor calibration
Completed

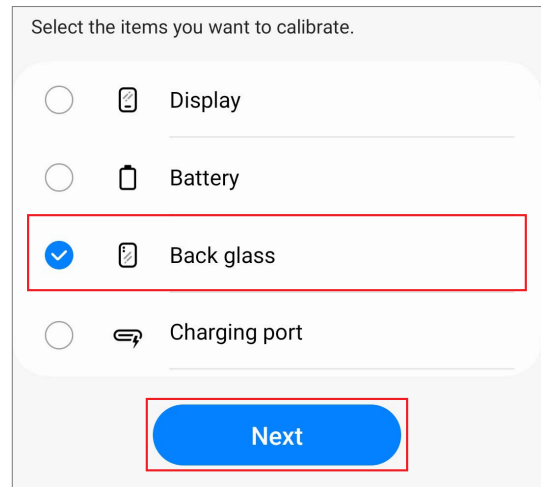
Range Sensor Calibration

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**.

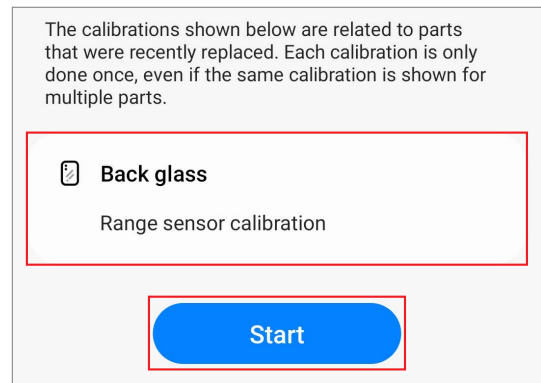


Select the items you want to calibrate.

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

Next

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

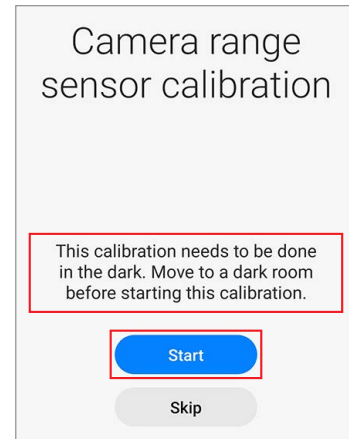


The calibrations shown below are related to parts that were recently replaced. Each calibration is only done once, even if the same calibration is shown for multiple parts.

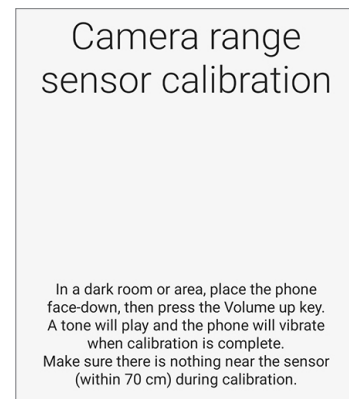
-  **Back glass**
Range sensor calibration

Start

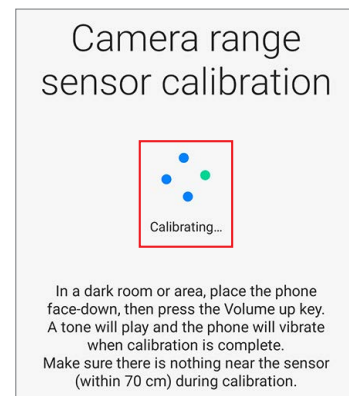
- 4 Read the on-screen instructions and tap **Start**.



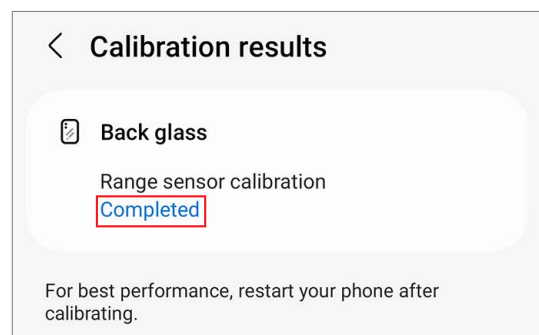
- 5 In a dark room or area, place the phone face-down, then press the Volume button.



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



- 7 Check the calibration result.



Touch Screen Panel Calibration

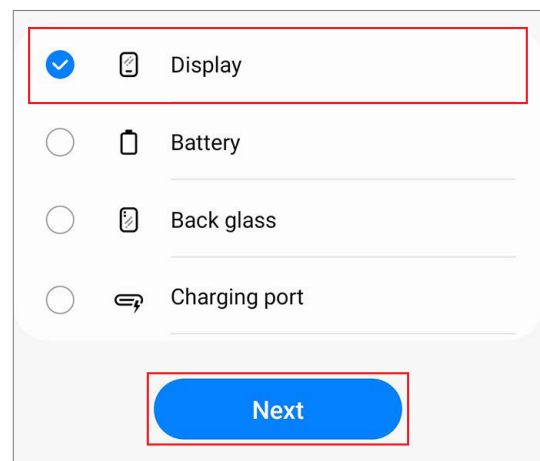
When replacing screens, touch screen panel calibration is required to ensure accurate touch input.

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

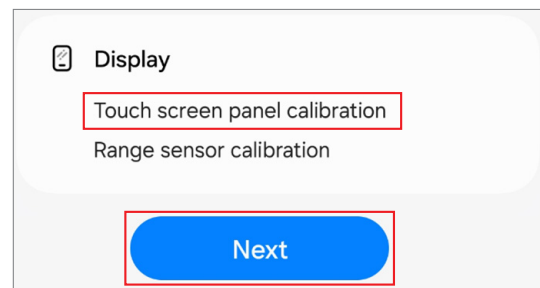


In the Fold models, touch screen panel calibration is performed for both the main and cover screens.

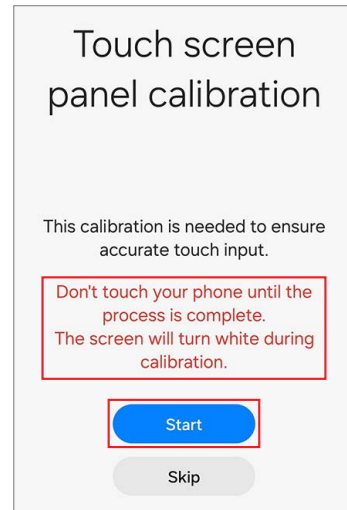
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



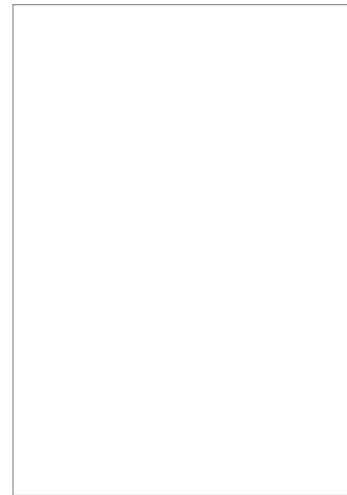
- 3 Check part and calibration and tap **Next**.



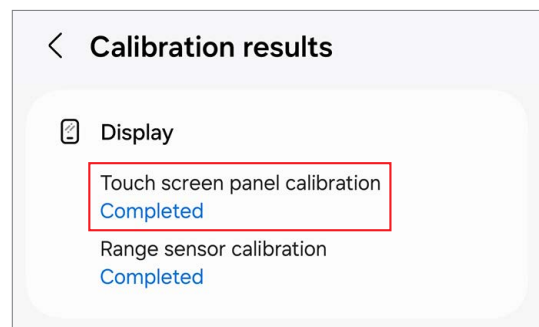
- 4 Read the on-screen instructions and tap **Start**.



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



- 6 Check the calibration result.

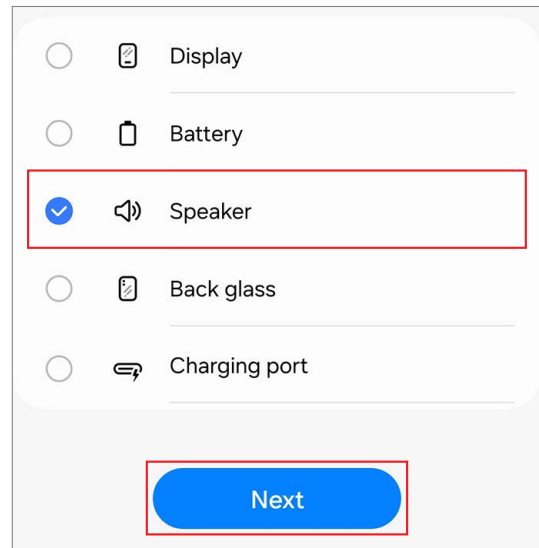


Speaker Calibration

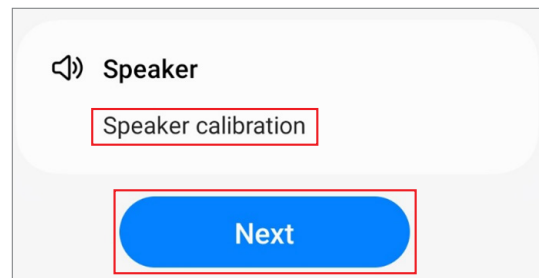
When replacing speakers, the speaker must be calibrated to guarantee optimised speaker performance for devices that have it.

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

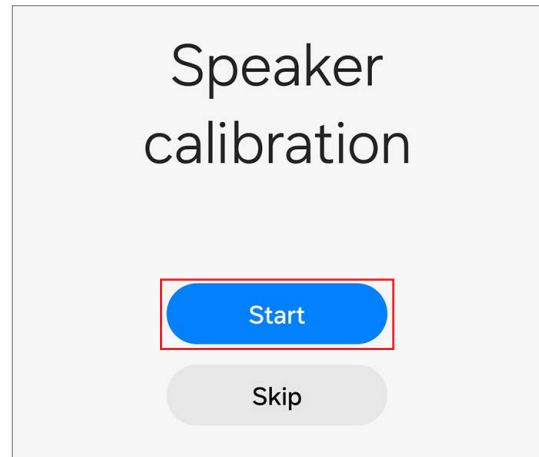
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



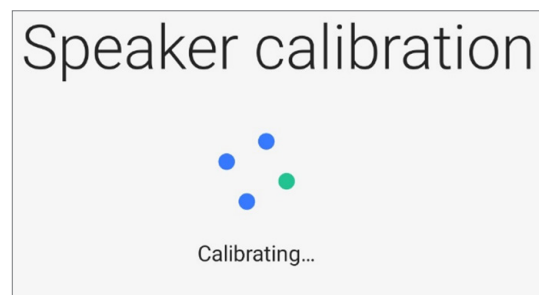
- 3 Check part and calibration and tap **Next**.



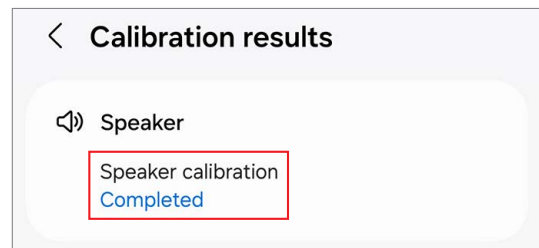
4 Tap **Start**.



5 The calibration will perform automatically.



6 Check the calibration result.



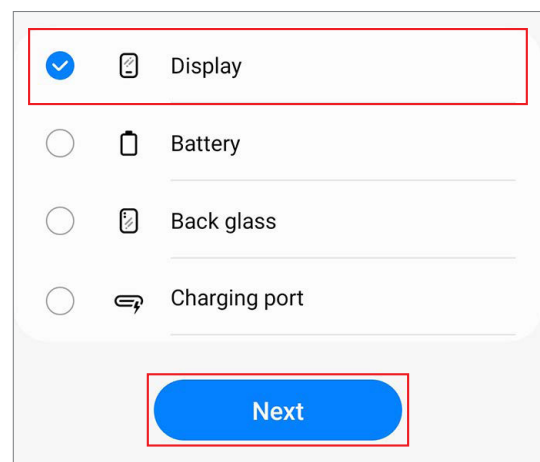
Under-display Camera Calibration (Fold Models Only)

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

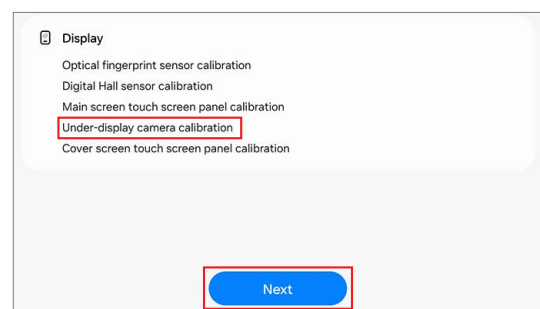
Under-display camera calibration is available through the **Self Repair Assistant** app.

 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.

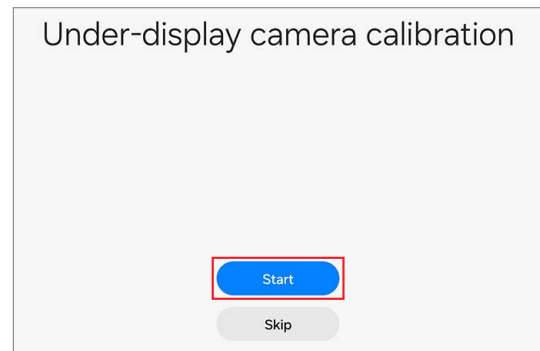
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



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

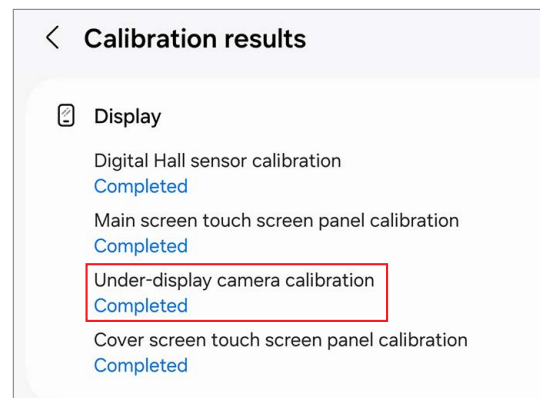


4 Tap **Start**.



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.

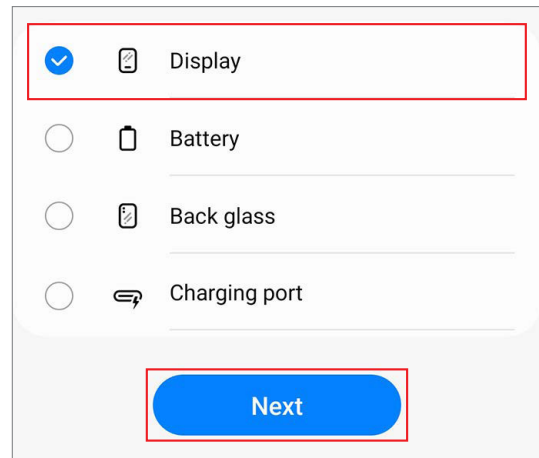
- 1) Fold the device and launch the **Self Repair Assistant** app on the cover screen.
- 2) Move to the digital hall sensor calibration screen, unfold the device, and then press the Volume Up button or the Volume Down button.
- 3) You will hear a vibration, and the calibration will be performed automatically.

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

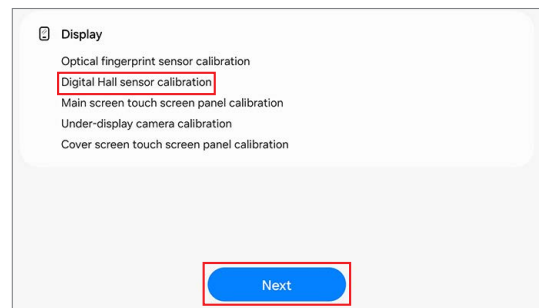
- **For Flip models:** If the main screen does not turn on after being replaced (the main screen is off and the cover screen is on when the device is unfolded), follow the steps below to force the main screen to turn on and perform digital hall sensor calibration. The boot screen (the screen where the 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.

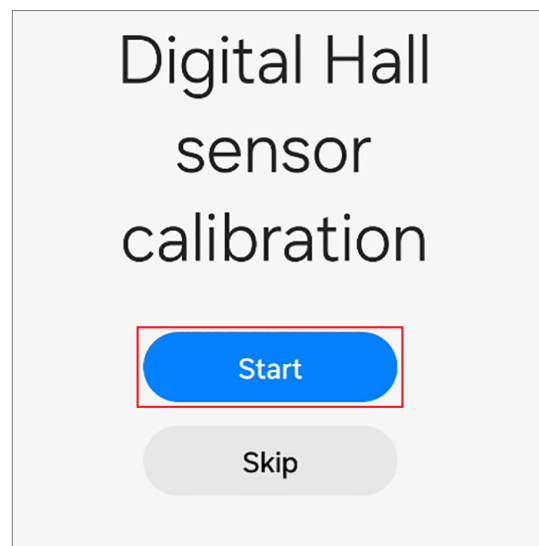
- 1 Launch the **Self Repair Assistant** app.
- 2 Select the part that you have replaced and tap **Next**.



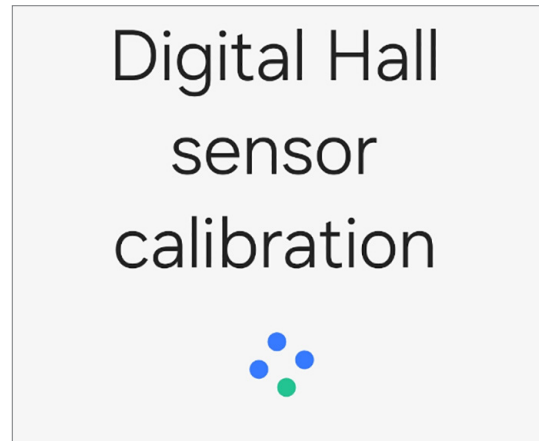
- 3 Check part and calibration and tap **Next**.



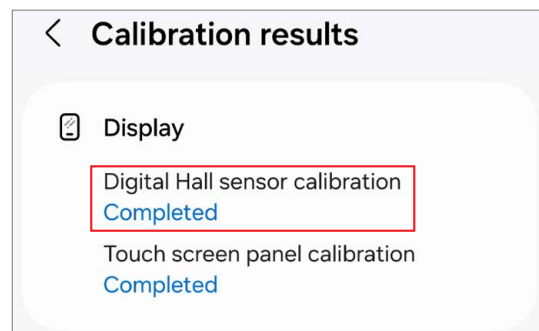
- 4 Tap **Start**.



5 The calibration will perform automatically.



6 Check the calibration result.

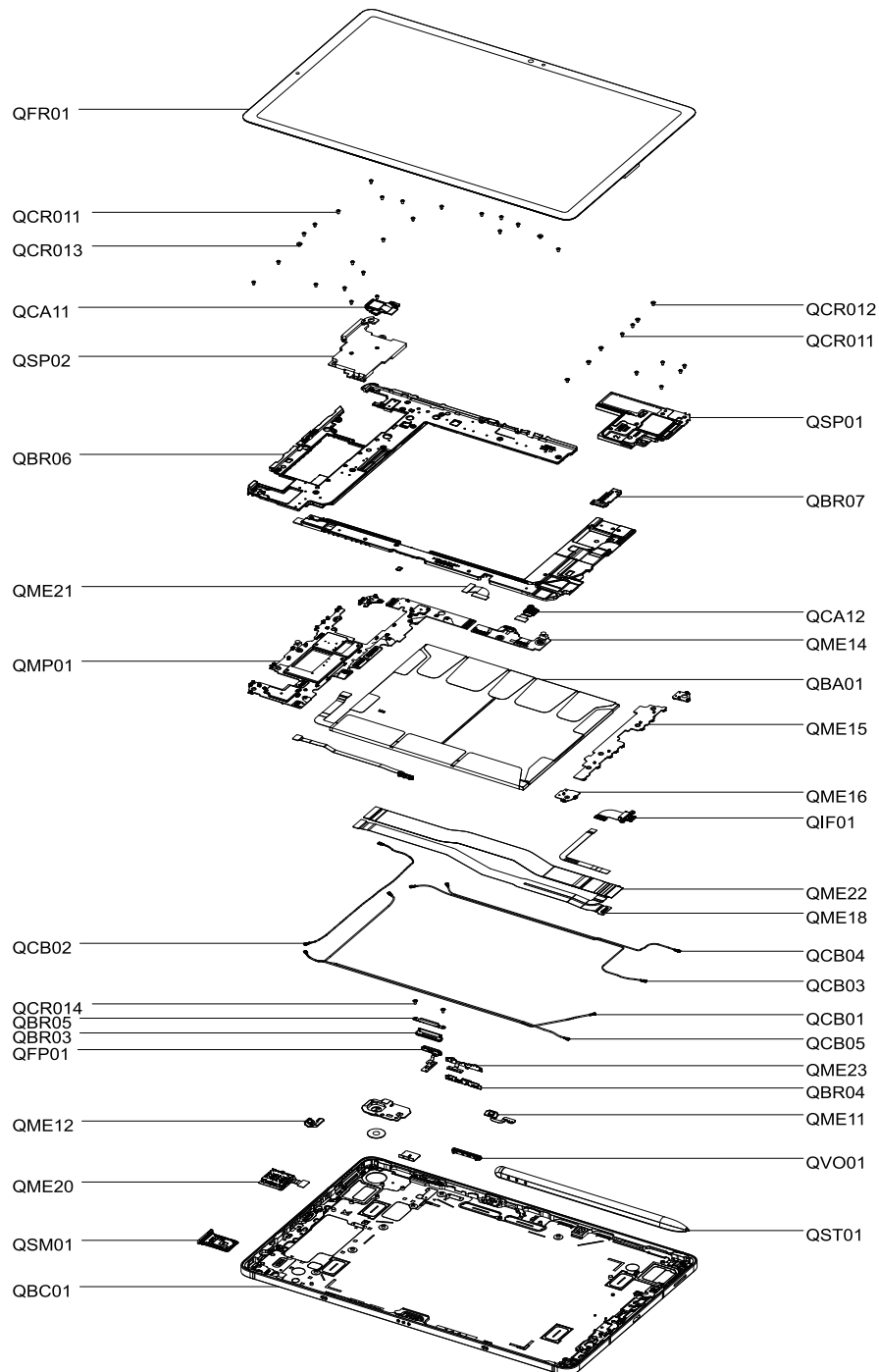


Exploded View and Parts List



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

Exploded View



Parts List

Number	Name
QCB05	Antenna Flex Cable (Blue)
QCB01	Antenna Flex Cable (Black)
QCB04	Antenna Flex Cable (Red)
QCB03	Antenna Flex Cable (Grey)
QIF01	Charging Port
QME20	SIM Card Socket
QME18	Main Flex Cable (Sub PBA to Main Board)
QME16	Antenna PBA
QBR07	Flex Cable Connector Cover
QCR014	Screw 3520
QME23	Button Flex Cable
QBR05	Side Button (Fingerprint Recognition Sensor) Metal Holder
QBR04	Button Holder
QFP01	Side Button (Fingerprint Recognition Sensor)
QVO01	Volume Button
QBR03	Side Button (Fingerprint Recognition Sensor) Holder
QST01	S pen
QCA12	Front Camera
QCA11	Rear Camera
QBR06	Bracket
QME12	Microphone (Top)
QME11	Microphone (Side)
QSM01	SIM Card Tray
QME14	VT Board

Number	Name
QSP02	Speaker1
QSP01	Speaker 2
QFR01	Screen
QBC01	Back cover module
QMP01	Main Board (PBA)
QME15	Sub PBA
QBA01	Battery

How to obtain Samsung approved spare parts

Visit to :

<https://samsungselfrepair.shop/it/>

Disassembly and Assembly

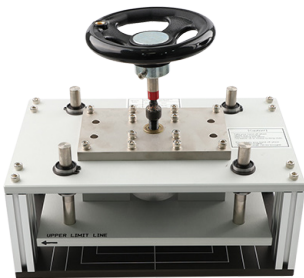
Tools for Disassembly and Assembly

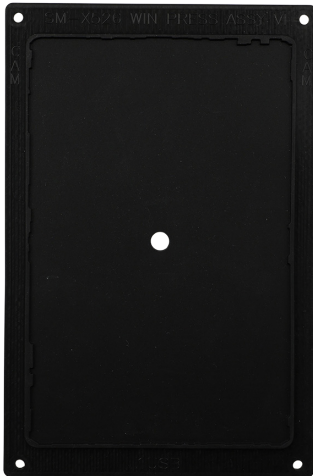
When repairing devices, you absolutely must wear protective equipment for your safety.

-  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 (L)		Tool for disassembling the screen
Opening Tool		Tool for disassembling the connector and other parts
Suction Cup (L)		Tool for disassembling the screen and other parts  When removing the screen of Galaxy Tab S10 FE, you need a large size suction cup.

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 disassembling the screen and other parts
Press Fixture		Tool for pressing the screen or 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	 A black rectangular tray with a textured surface and a central white rectangular cutout. It has four silver screws at the corners.	Tool to place the device when pressing the screen or 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. • This tray can be used in common with other models, so the labeled model name on tray may differ.
Top Press Tray	 A black rectangular tray with a smooth surface and a central white circular cutout. It has four silver screws at the corners.	Tool to cover the bottom press tray when pressing the screen 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. • This tray can be used in common with other models, so the labeled model name on tray may differ.

Tool & Part Code	Image	Description
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.
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.

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 3570	29		Screws for the bracket (18 ea) Screws for the speakers (9 ea) Screw for the charging port (2 ea)
Screw 3523	5		Screws for the sub PBA (4 ea) Screw for the antenna PBA (1 ea)
Screw 3520	2		Screw for the metal bracket
Screw 3521	2		Screw for the main board (1 ea) Screws for the VT board (1 ea)

Item	Quantity	Image	Description
Screen Connector Adhesive Tape	1		Adhesive tape attached to the screen flex cable connector
Side Button Water-Resistant Tape	1		Adhesive tape attached to the plastic bracket of the Side button module
Side Button Plastic Bracket	1		Plastic bracket of the Side button module
SIM Card Socket Adhesive Tape	1		Double sided adhesive tape for attaching the SIM card socket
Rear Camera Adhesive Tape	1		Double sided adhesive tape for attaching the rear camera
Speaker1 FPCB Adhesive Tape	1		Double sided adhesive tape for attaching the FPCB of the speaker1

Disassembly and Reassembly for replacement



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

Before disassembling:

- Unplug and turn off device before disassembling.
- If you have an S Pen purchased separately, remove the S Pen.
- When removing the screen of Galaxy Tab S10 FE, you need a large size suction cup.
- Wear an anti-static wrist strap and connect it to the grounded ESD safe mat.

Before reassembling:

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

For all cases of broken glass:

1 Wear safety goggles and cut-resistant gloves.

2 To prevent injuries and scattering caused by broken glass, attach the tape on the broken glass.



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

3 Press the tape with strong force so that it is strongly attached to the broken glass.



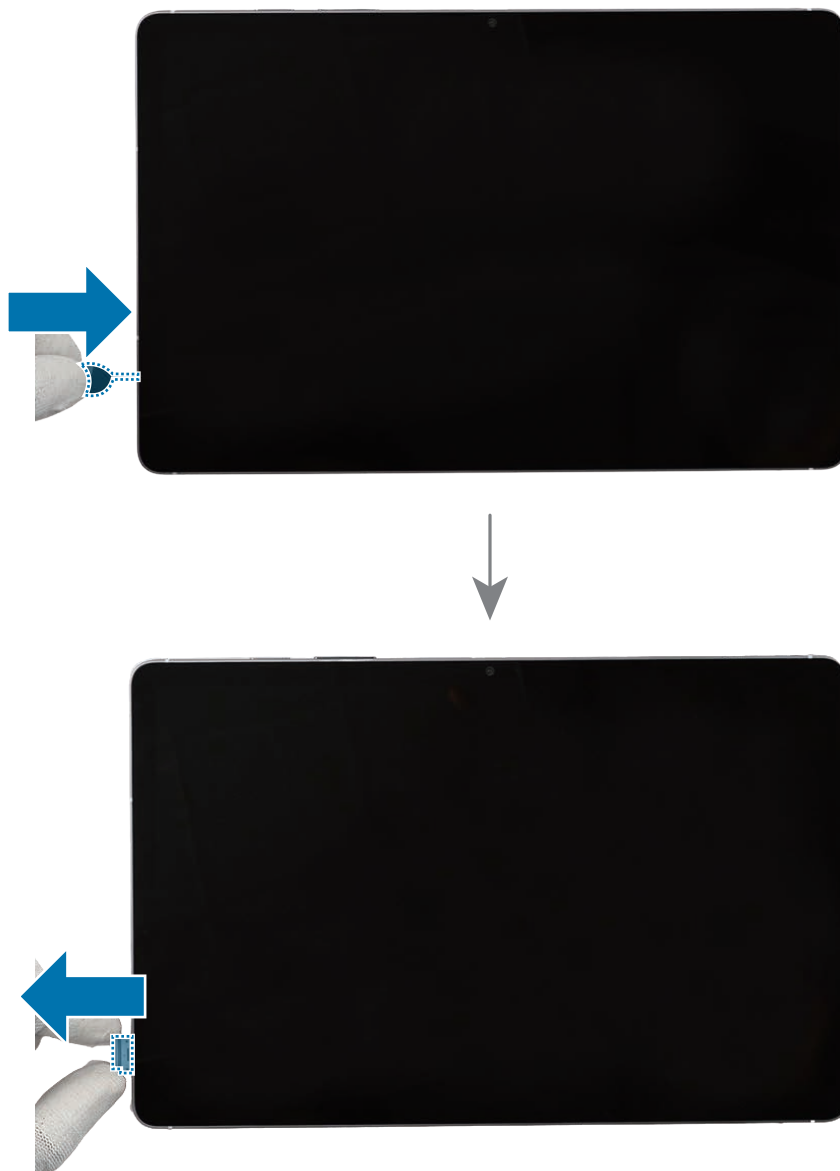
Wait until the adhesive between the tape and the glass is strengthened.

4 Follow the disassembly steps in this guide.

SIM Card Tray

Disassembly

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

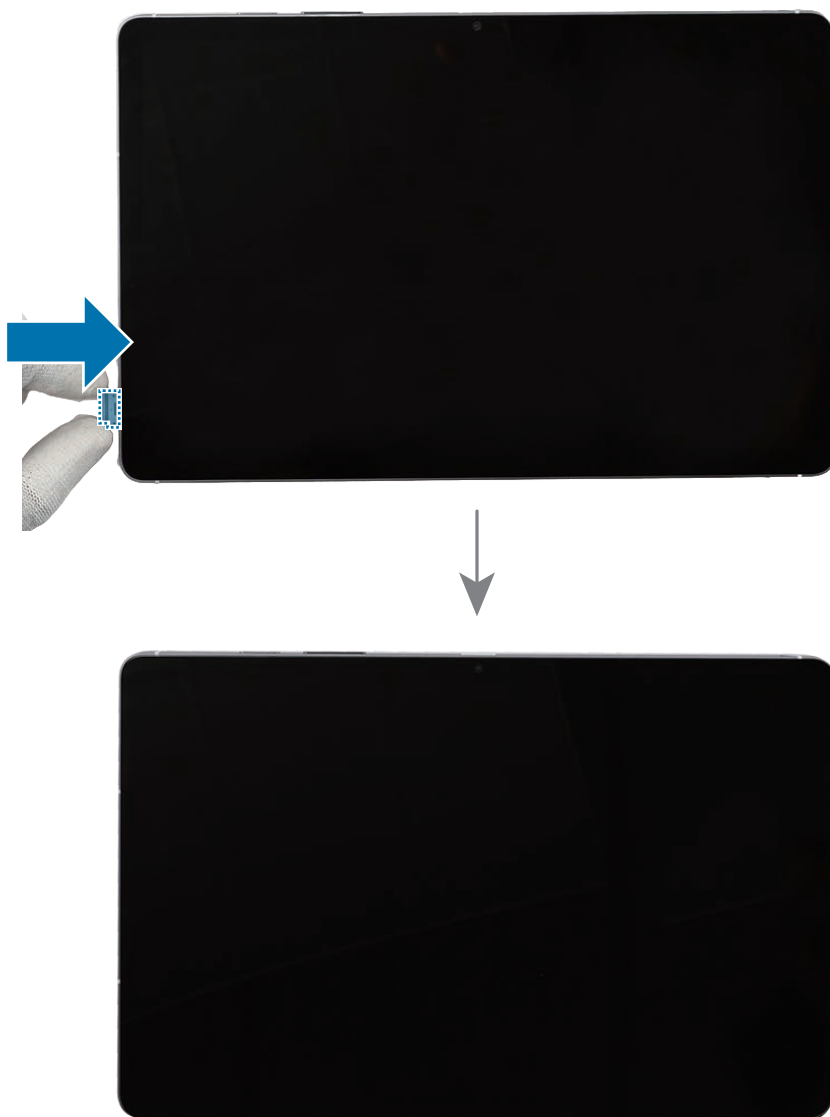




Reassembly

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

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



Screen

Disassembly

- ❗ When removing the screen, ensure that the device is fixed on a flat surface.
 - 👉 When removing the screen of Galaxy Tab S10 FE, you need a large size suction cup.
- 1 Heat the microwaveable heating bag and apply it to the left 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 (L) on the top left edge of the screen, and lift it upward carefully.

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

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



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



Be careful not to insert the opening pick too deeply as this could damage the internal circuitry, leading to problems such as abnormal operation of the screen.



- As the screen can be damaged by excessive force, be careful not to damage the screen.
- As the internal circuitry can be damaged, do not insert the opening pick more than 2 mm.



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







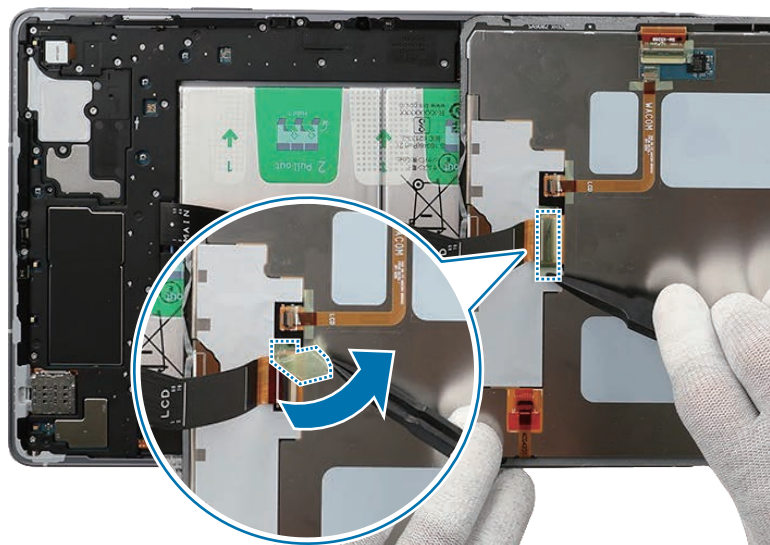


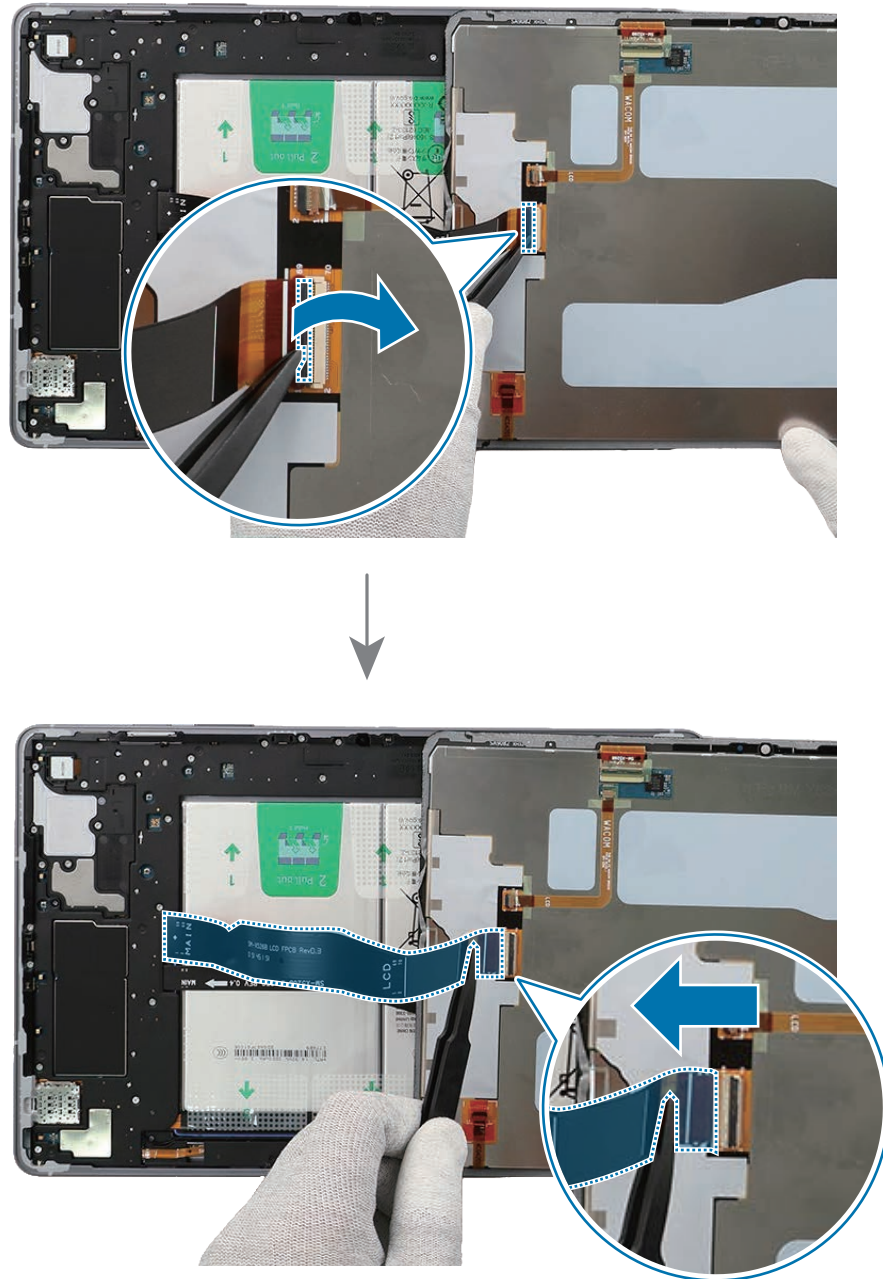


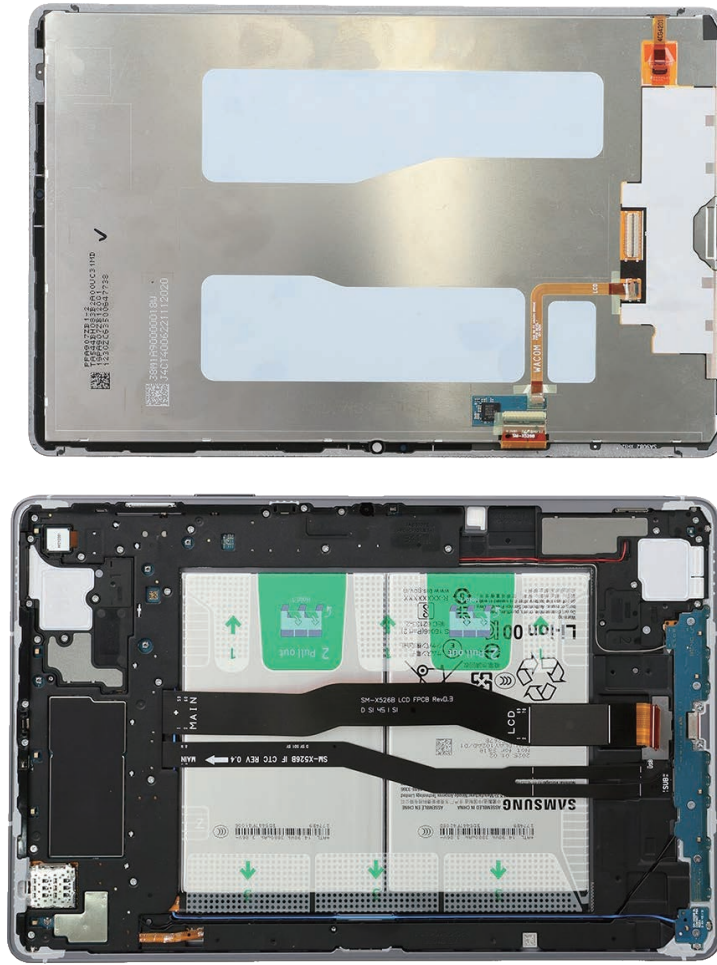
4 Before removing the screen completely, using the tweezers, remove the tape from the flex cable connector and lift up the connector cap to separate the flex cable from the screen. Lift the screen and separate it from the back cover module completely.



- Make sure to separate the connectors before removing the screen completely.
- Be careful not to damage the cables while removing the connectors.

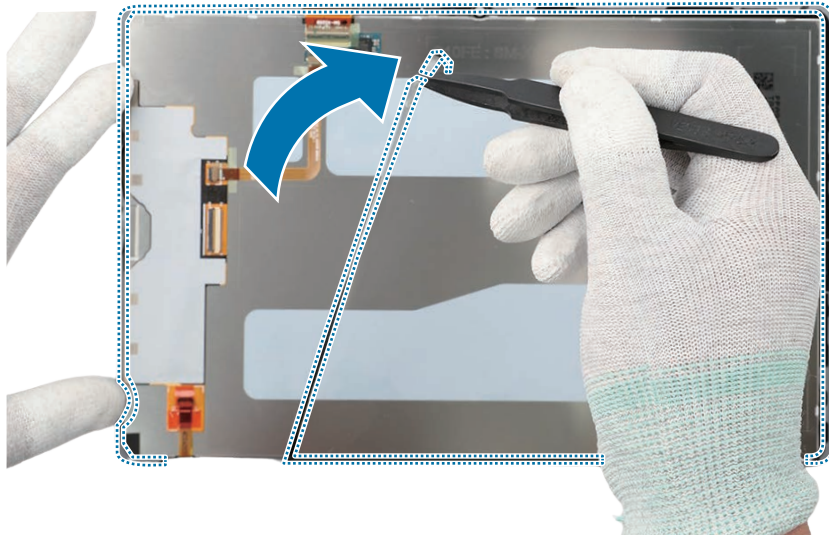
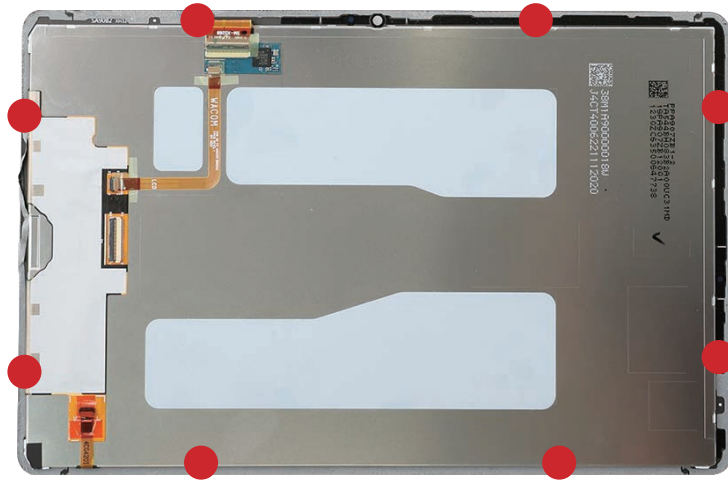


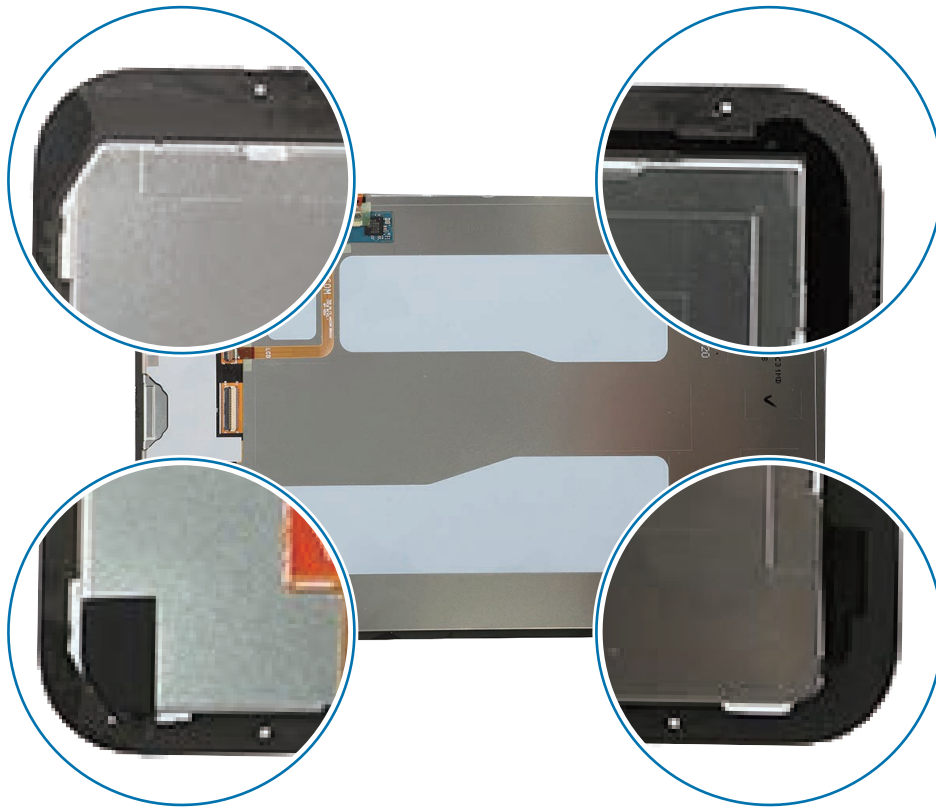




Reassembly

-  Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.
 -  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 (●). Additionally, remove the glue at each corner of the inside the screen.
- 
 - Make sure to remove any residual tapes (●) attached to the inside of the screen or the back cover module before reassembling the device.
 - Be careful not to damage the near components.
 -  Apply additional heat with a microwaveable heating bag if you are having trouble separating the adhesive.

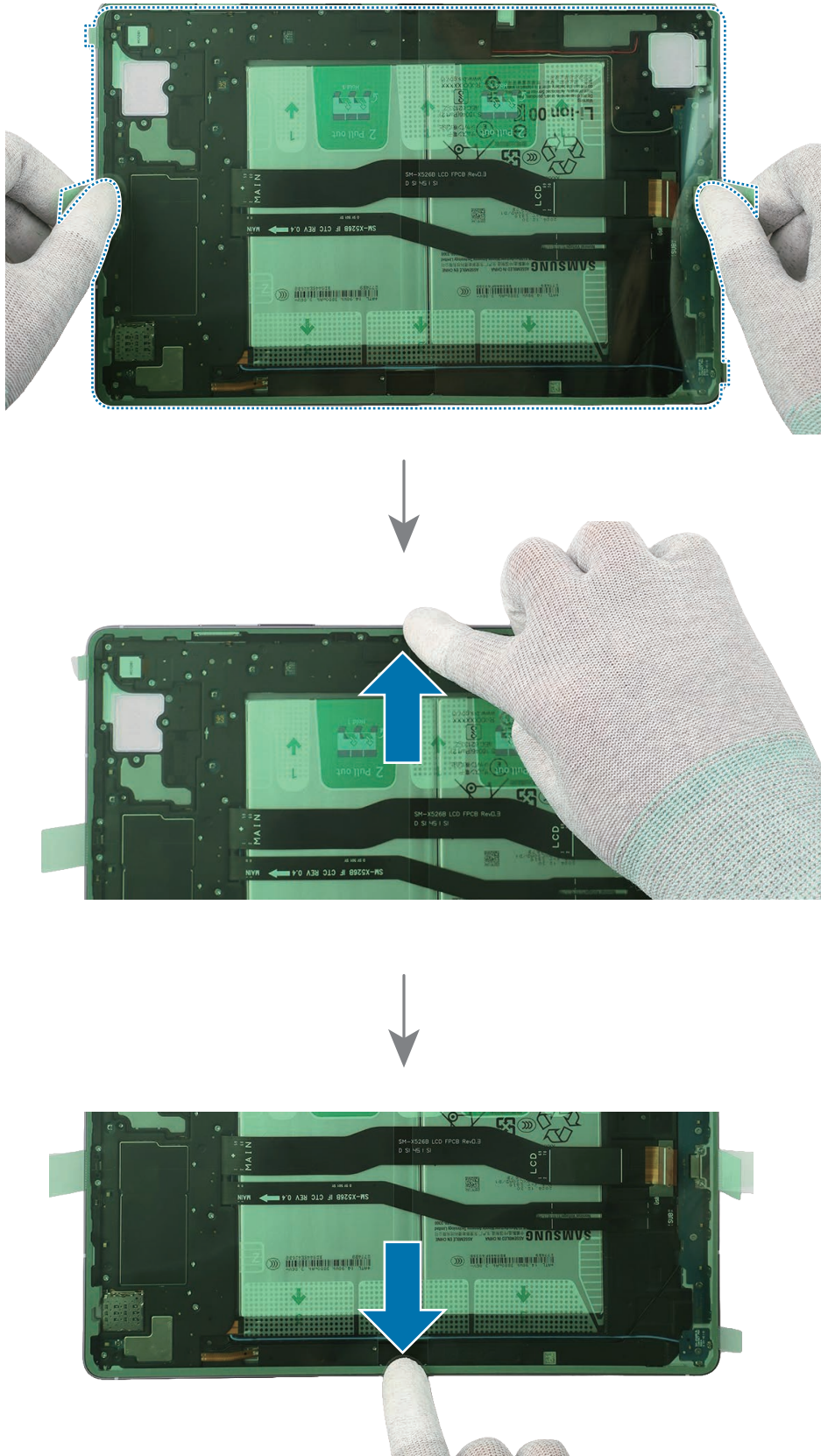




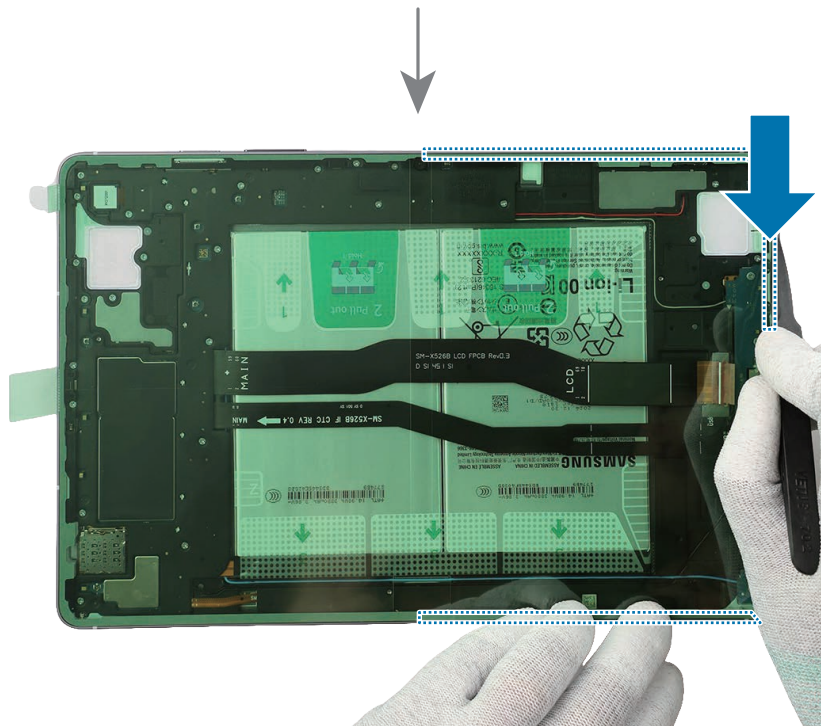
- 2 Remove the inner vertical transparent film on the centre of the new screen adhesive tape.



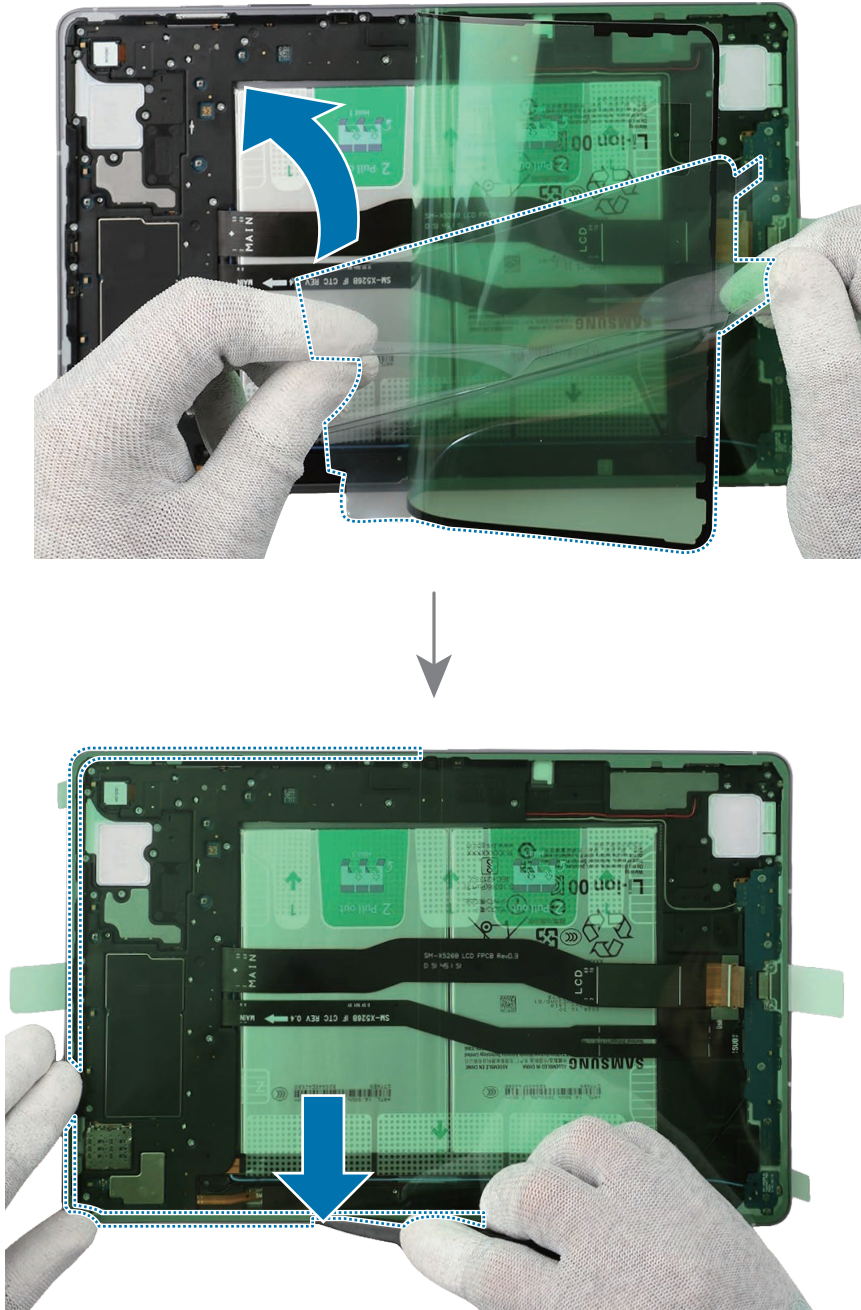
- 3 Align the adhesive tape precisely on the back cover module and attach it. Gently press down the upper and lower middle of the adhesive tape to ensure a secure fit.



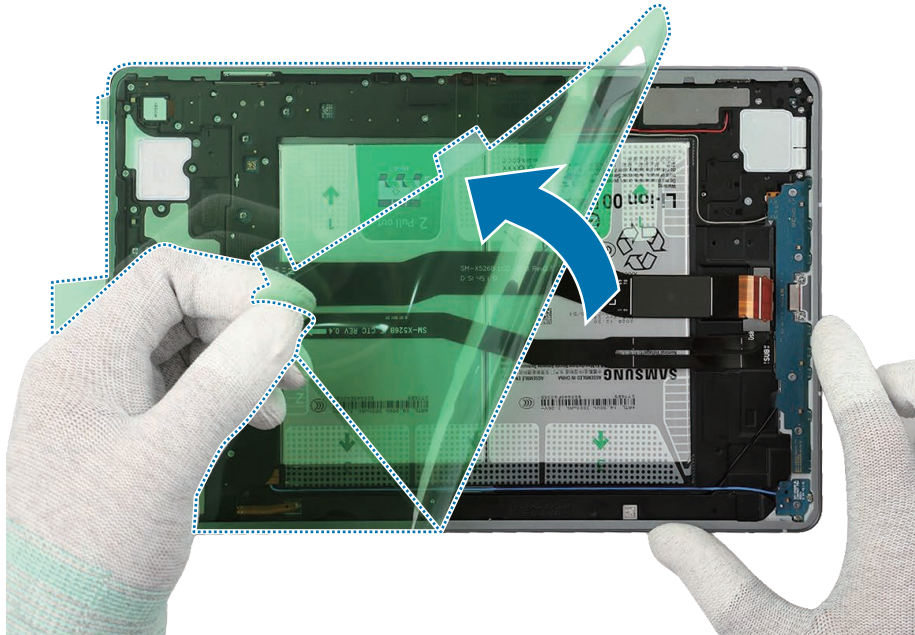
- 4 Lift the right side of the adhesive tape and remove the inner transparent film from the centre of the inside. Align the adhesive tape precisely on the right of the back cover module so that the exposed tape is exactly attached. Attach the tape and gently press down the edges of the tape using the tweezers to ensure a secure fit.



- 5 Lift the left side of the adhesive tape and remove the inner transparent film from the centre of the inside. Align the adhesive tape precisely on the left of the back cover module so that the exposed tape is exactly attached. Attach the tape and gently press down the edges of the tape using the tweezers to ensure a secure fit.



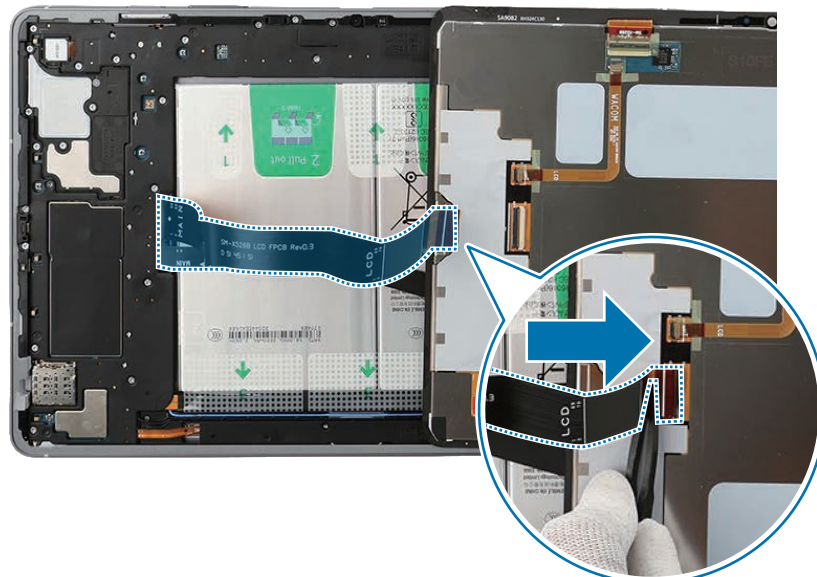
- 6 While holding the handle of the release film, remove the green transparent film from the adhesive tape.



- 7 Leave the inside of the screen visible and connect the flex cable connector between the screen and the back cover module.



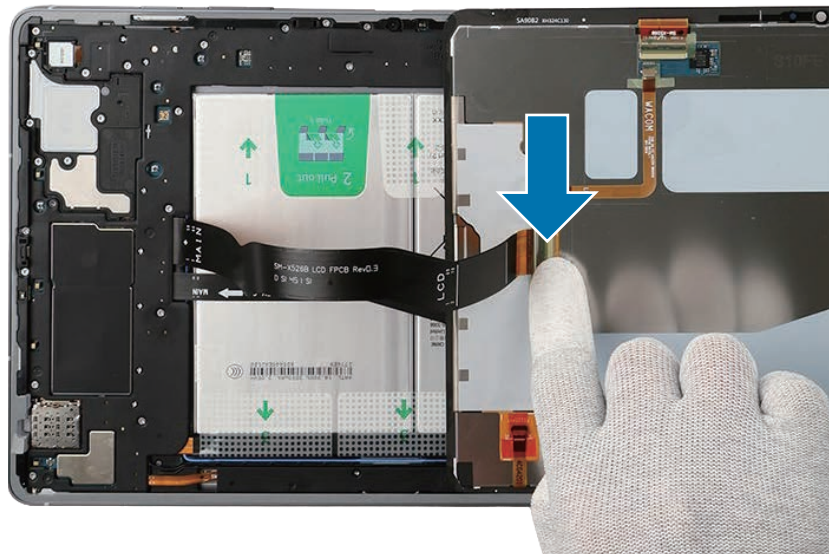
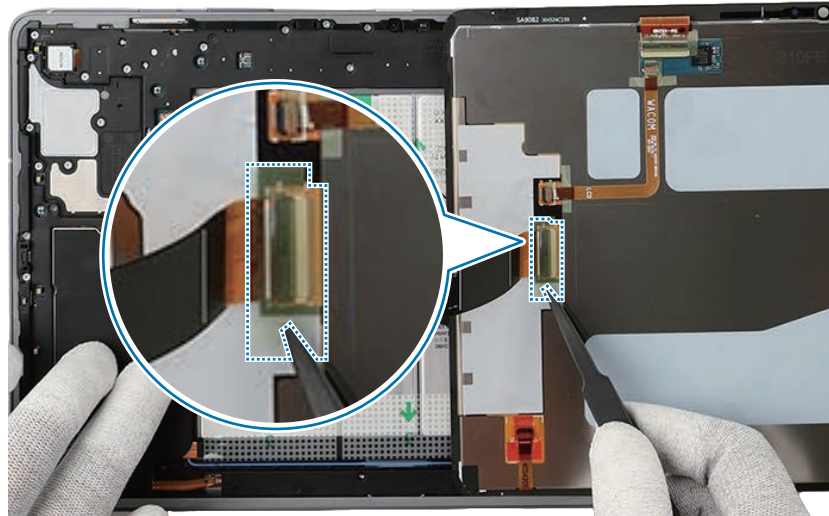
- Be careful not to damage the cables and the connectors.
- Be careful not to damage the screen.



- 8 In a state where the flex cable connector is connected, close the connector cap.

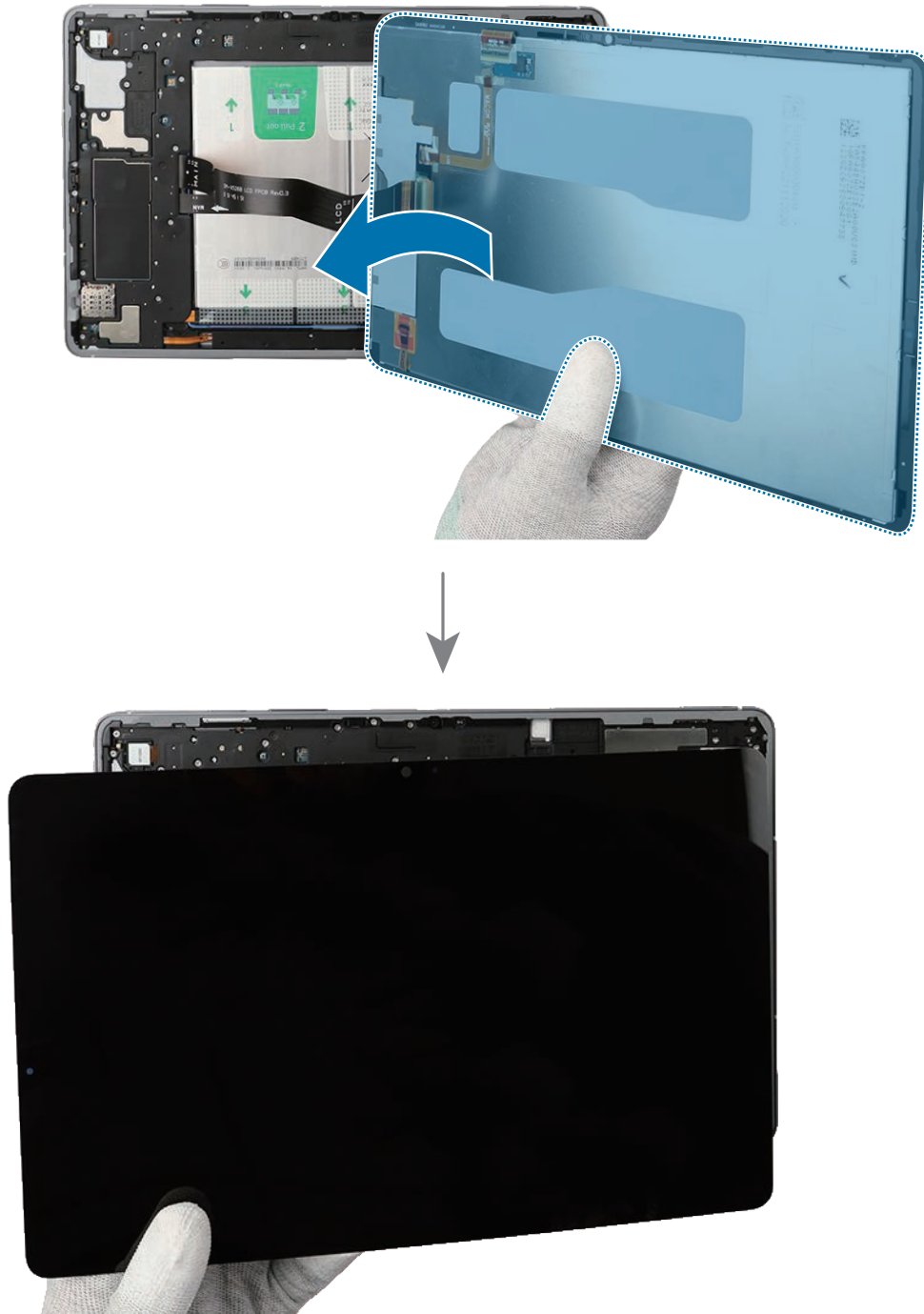


- 9 Using the tweezers, remove release film of the new screen connector adhesive tape and attach it on the cable connector cap. Secure the connector cap with the new adhesive tape, then press down softly.



10 Turn the screen slowly over back to its original state and attach it to the back cover module.

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



- 11 Press down on the edges of the screen evenly in order to attach the screen perfectly. Check the gap between the screen and the back cover module.

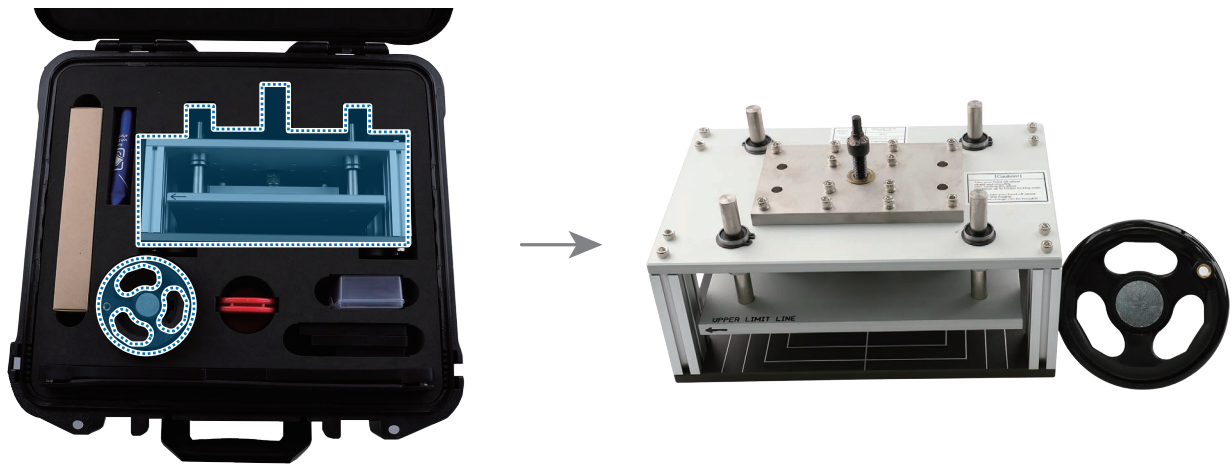
 If you feel some gap, remove the screen and attach it again. Some foreign materials can be inside the device.



12 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.

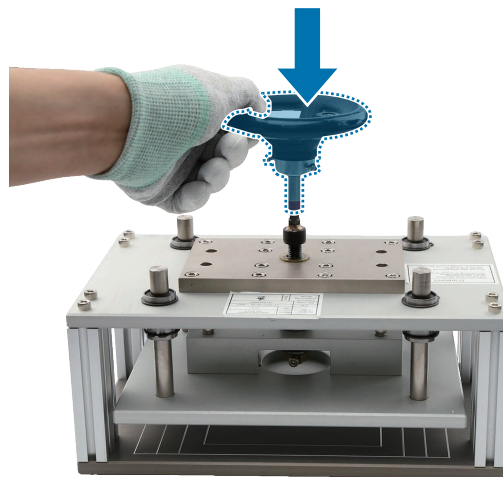
 Keep your hands out of the press fixture to avoid mechanical pinching and injury.

-  • 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.

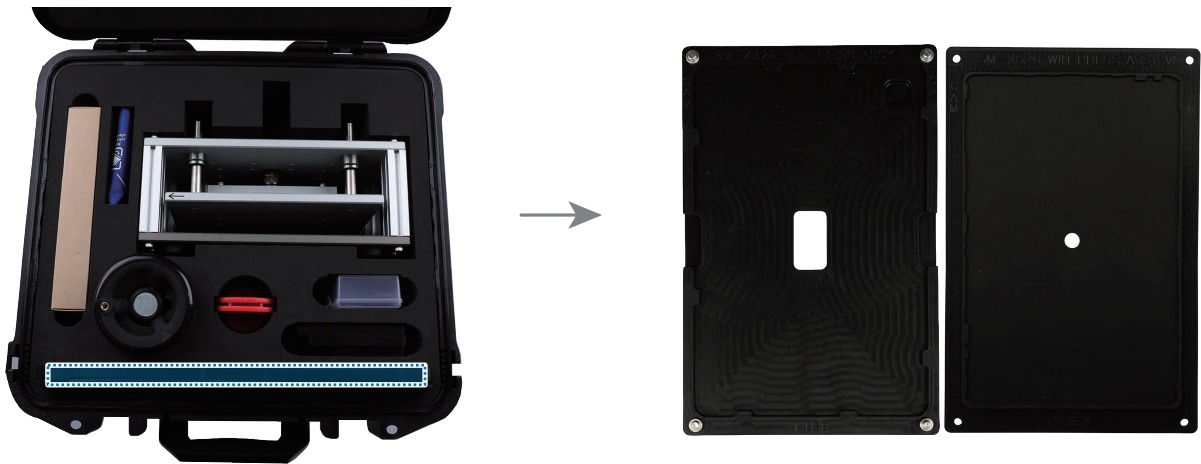


13 Carefully position the torque limit handle horizontally at the top of the press fixture.

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



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

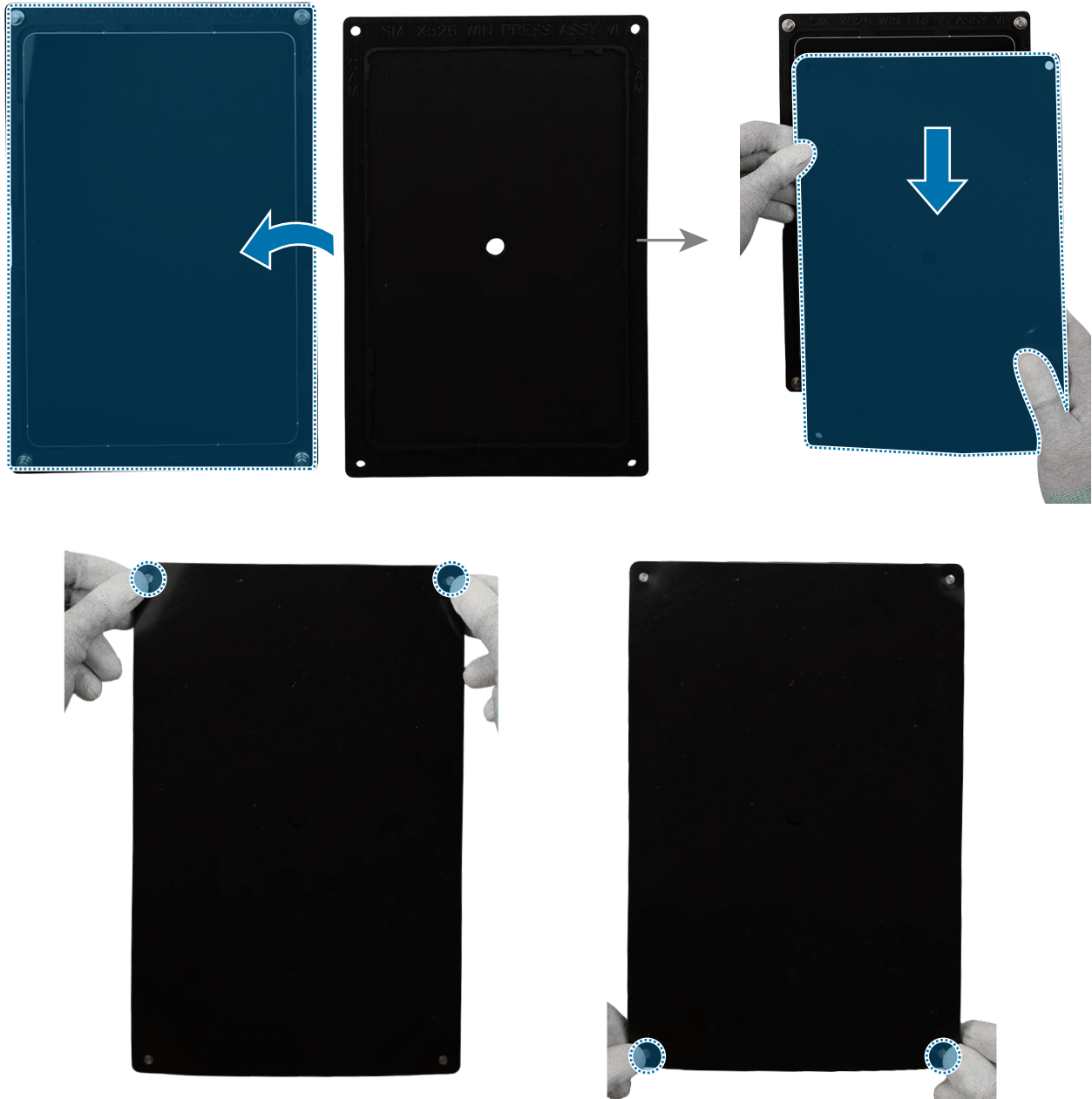


- 15 Place the screen facing up, and then place the device on the bottom press tray position.

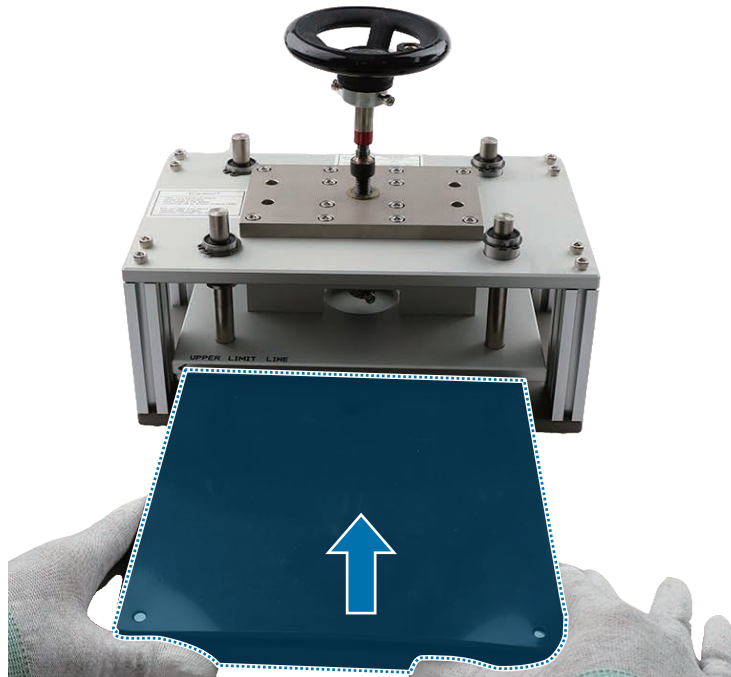


- 16 Place the top press tray in the position of the bottom press tray and lightly press it to assemble so that each corner can be fixed to the guide pin.

⚠ Be careful not to damage the screen and device.

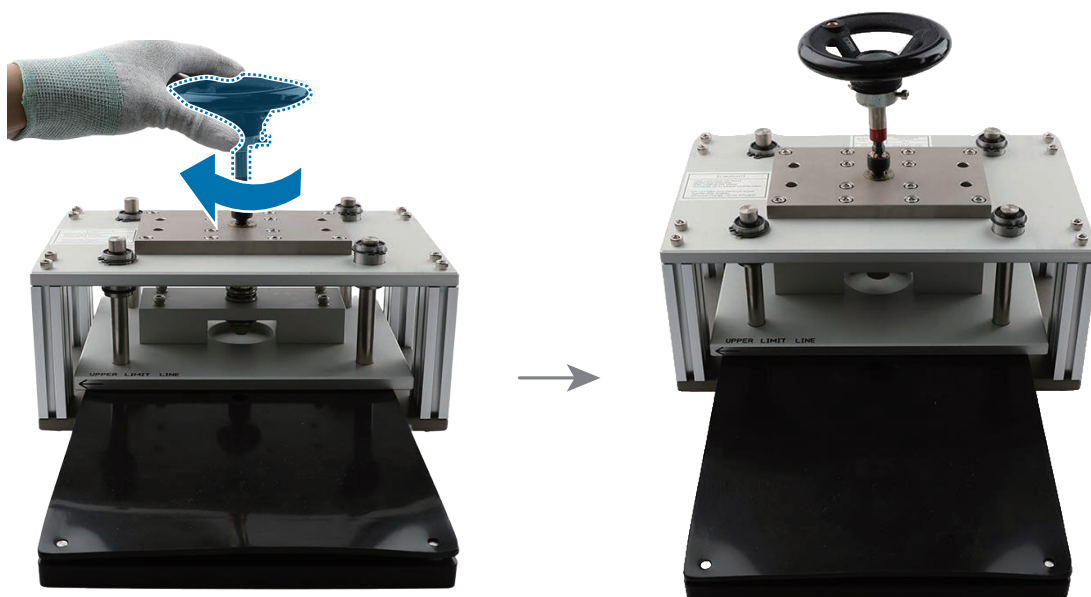


- 17 Position the top half of the press tray with the device lengthwise in the centre of the press fixture.

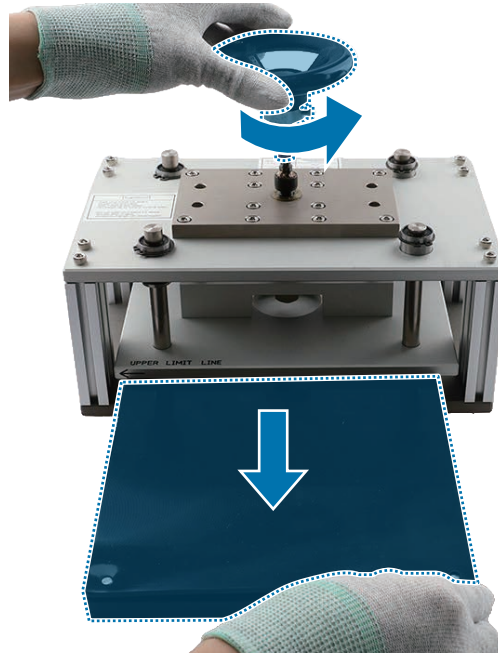


- 18 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray for 30 seconds.

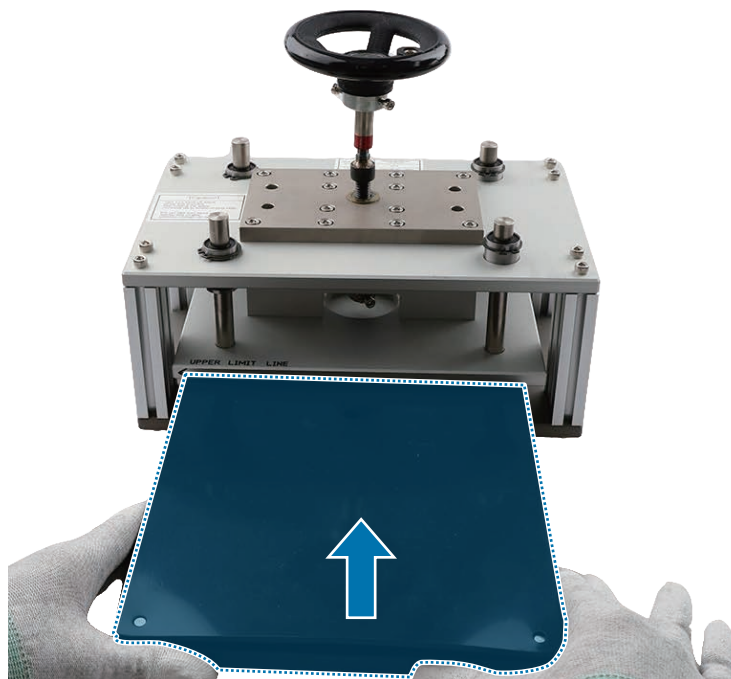
- ⚠ Keep your hands out of the press fixture to avoid mechanical pinching and injury.
- 📝 When you reach the required maximum force (1 N), a sound is made from the handle if you turn the handle.



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



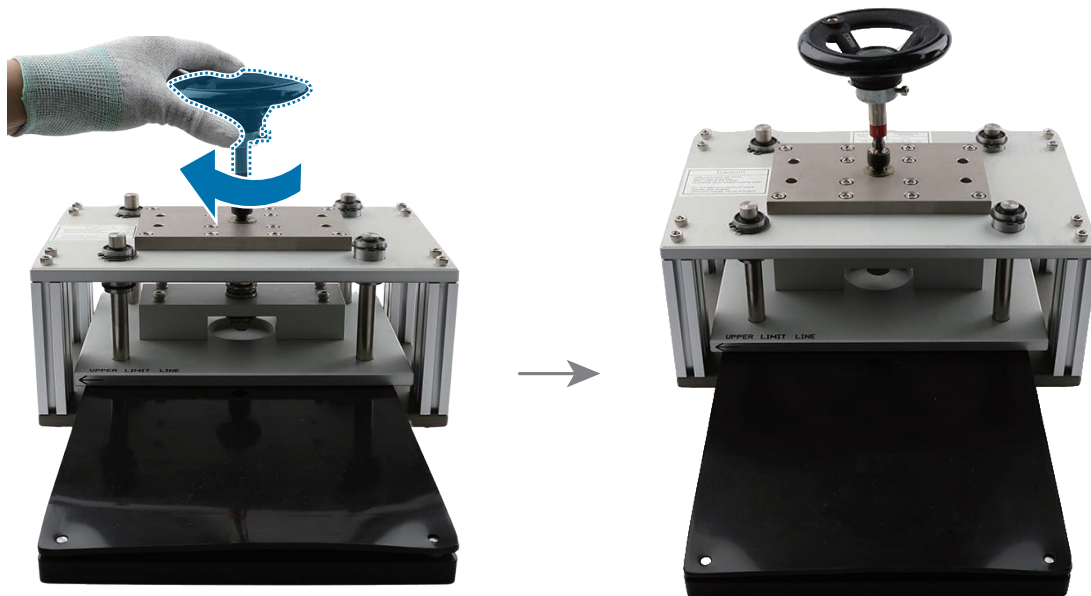
- 20 Position the bottom half of the press tray with the device lengthwise in the centre of the press fixture.



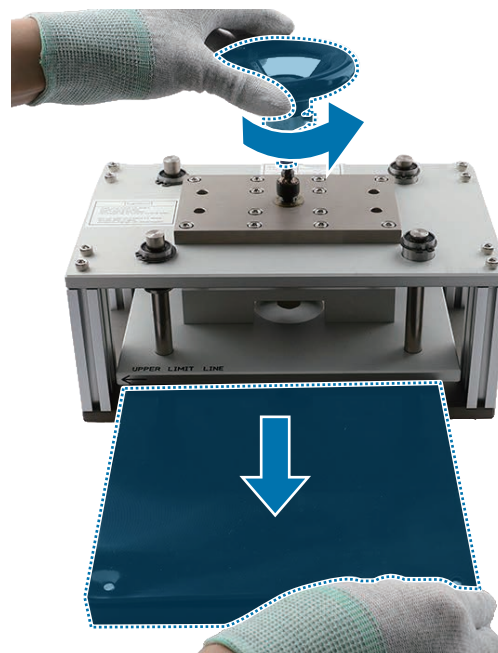
21 Rotate the torque limit handle to the clockwise until it makes a sound. In that press state, stay the tray again for 30 seconds.

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

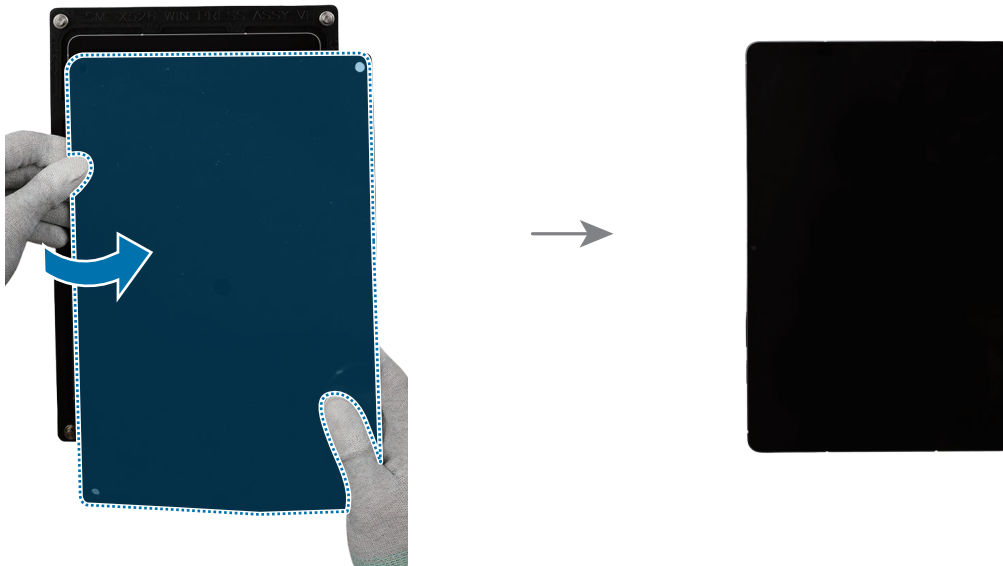
 When you reach the required maximum force (1 N), a sound is made from the handle if you turn the handle.



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



23 Remove the device carefully from the tray.



Bracket

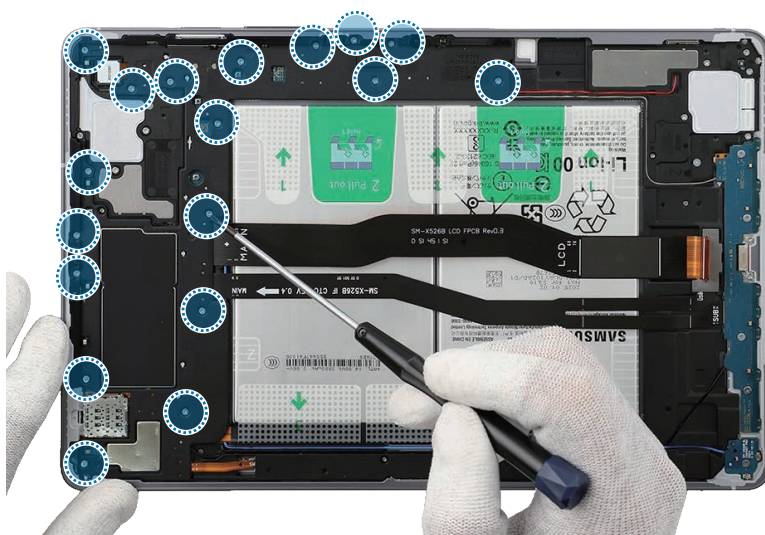
Disassembly

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

1 Check and remove the screws at the 18 different points on the bracket using a cross-head screwdriver.

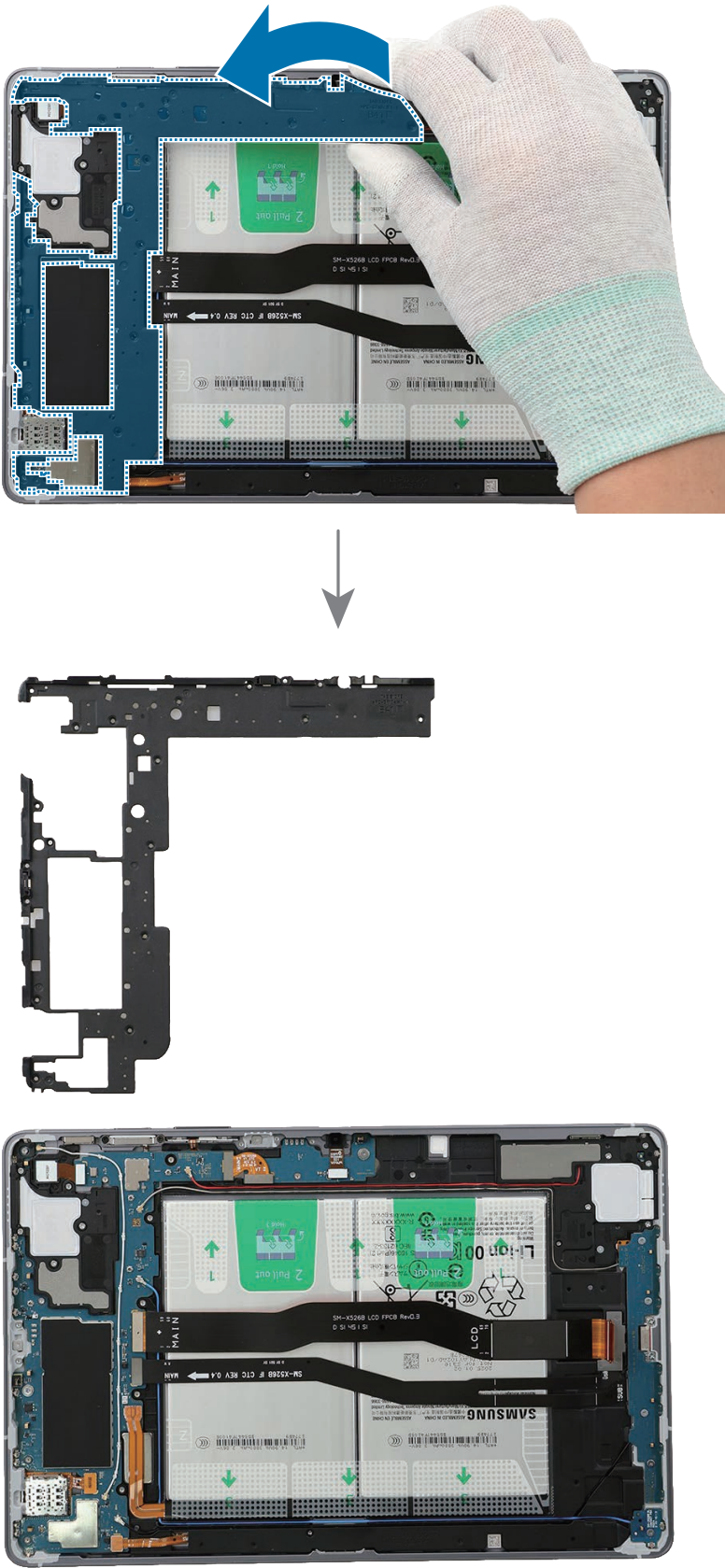
 Be careful not to damage the near components.

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



2 Remove the bracket from the back cover module.

 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.

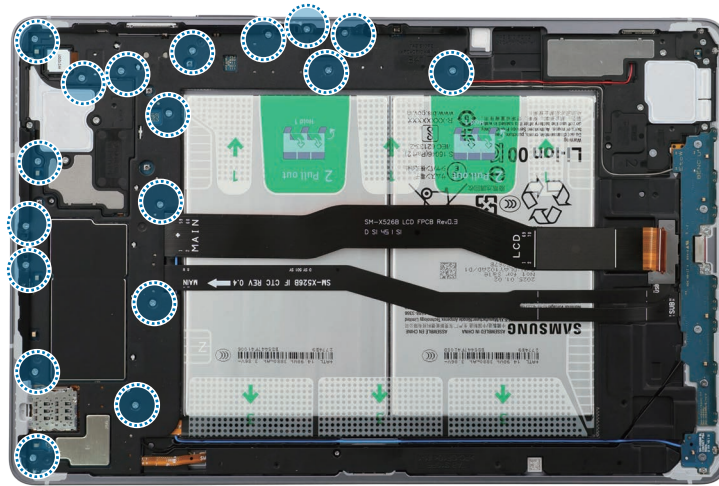
1 Place the bracket to the back cover module and press down on it in its position smoothly.

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

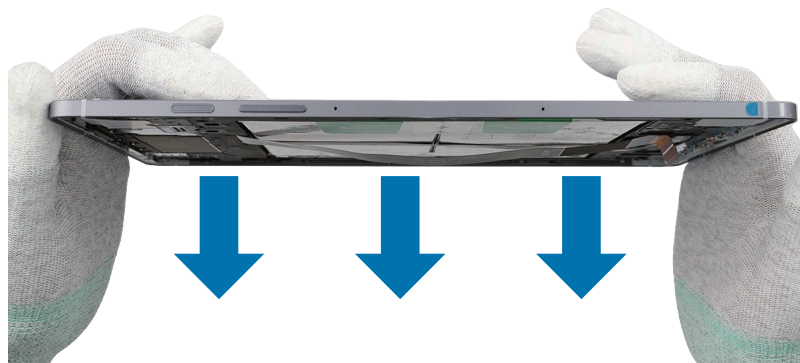


- 2 Check the screw 3570 (18 ea) and fasten them on the bracket using a cross-head screwdriver.

⚠ Be careful not to damage the 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 assembly.

Microphone

Disassembly

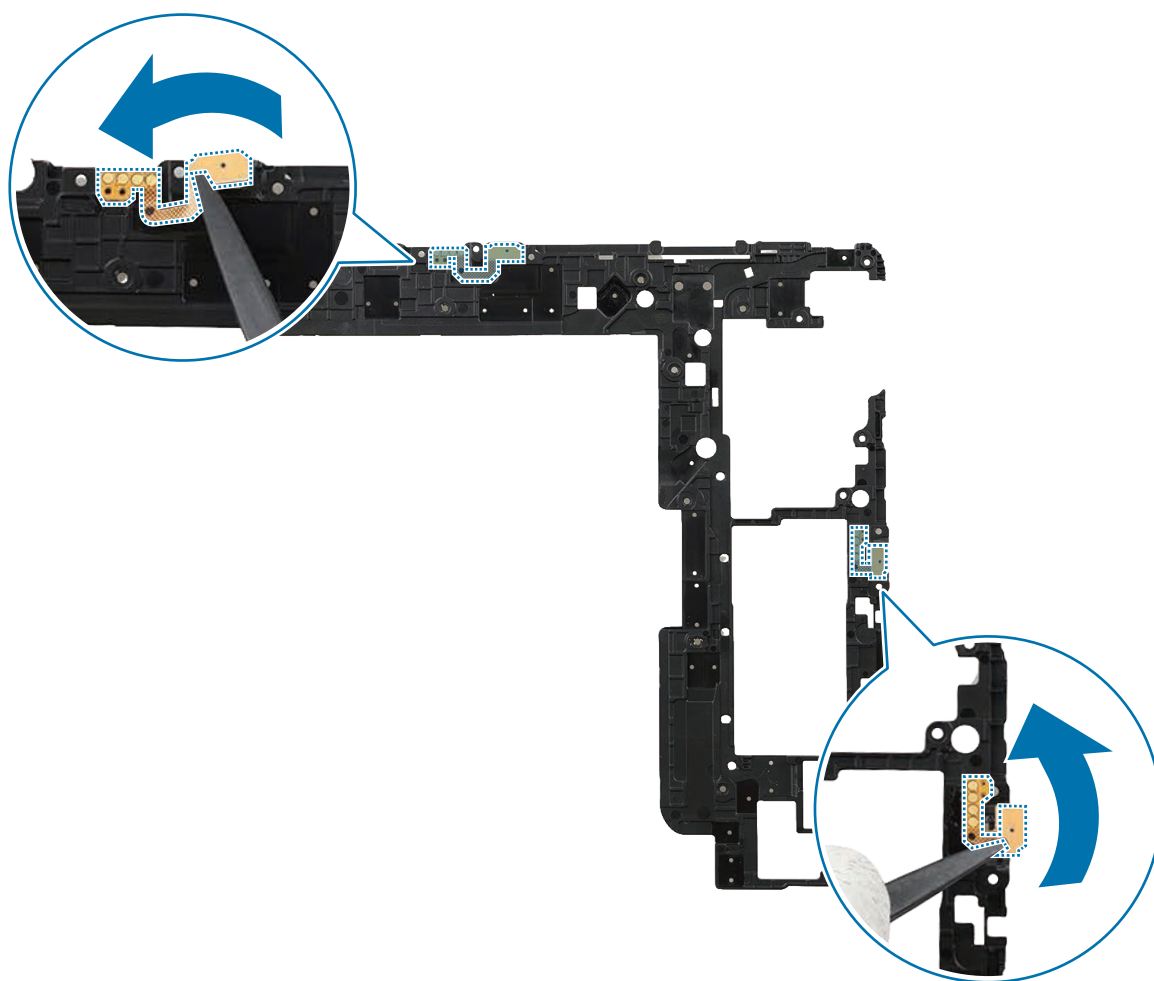


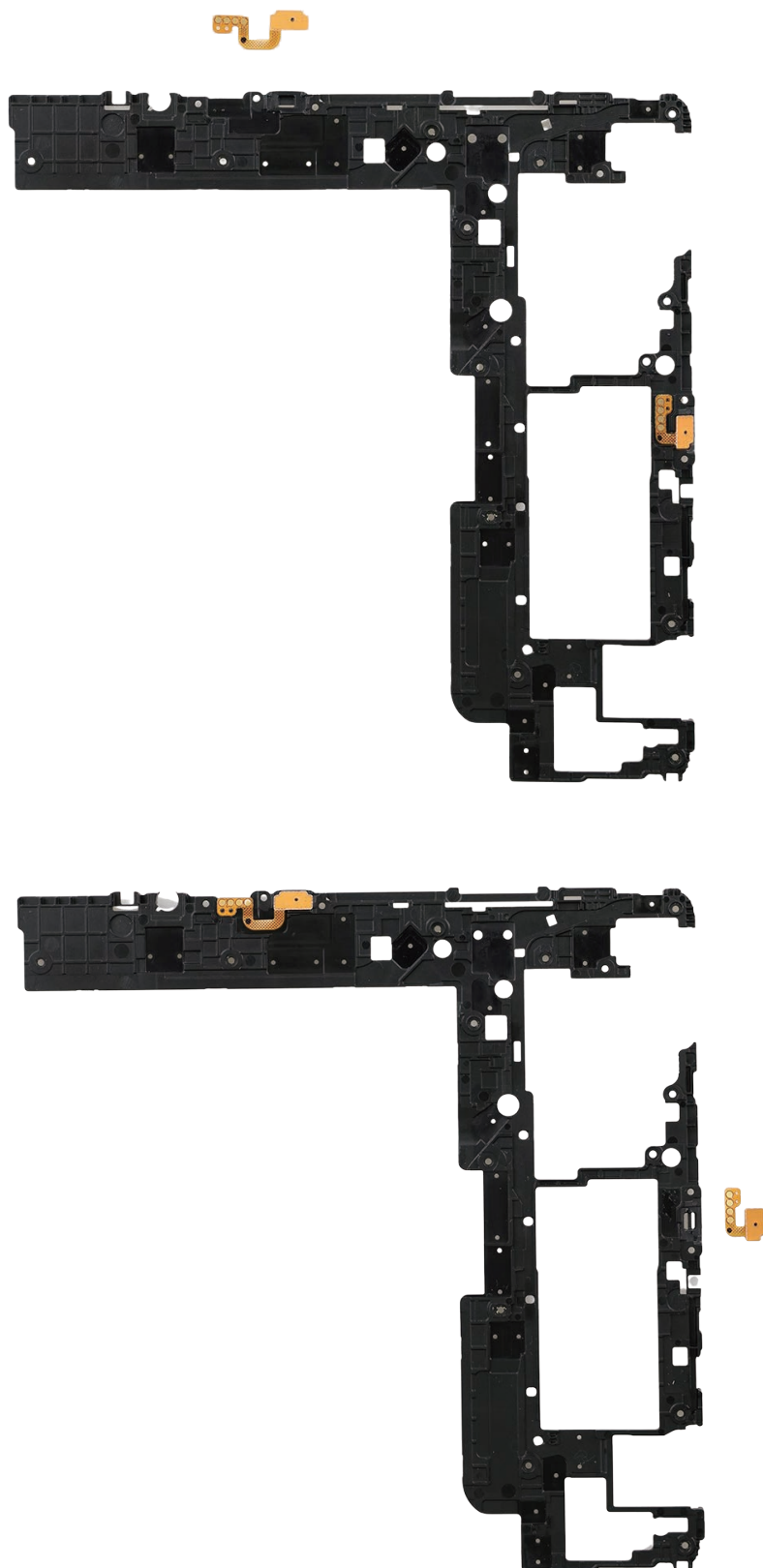
- Remove the [Screen](#) and [Bracket](#) first before you begin.
- The microphones are already built in the bracket module. Disassemble the microphones only if the microphones themselves require the repairs.

Using the tweezers, disconnect the top microphone and the side microphone from the bracket.



Be careful not to damage the bracket.



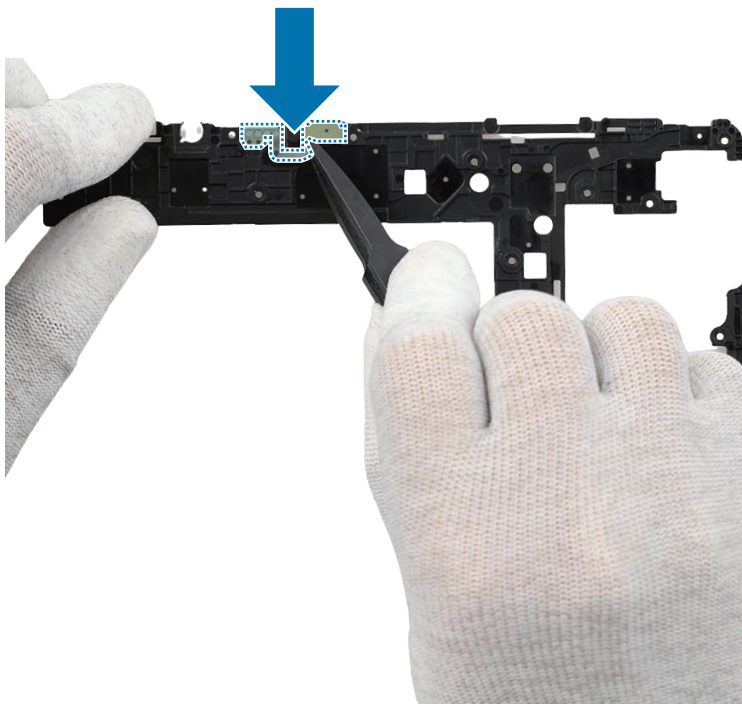


Reassembly

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

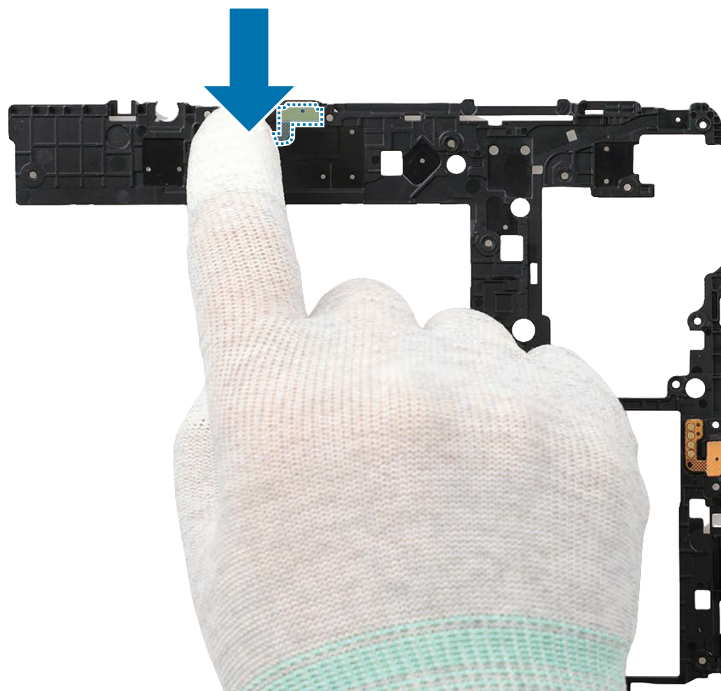
1 Using the tweezers, remove all release film of a new top microphone adhesive tape and assemble the top microphone to the exact position of the bracket.

 Be careful not to damage the microphone and bracket.



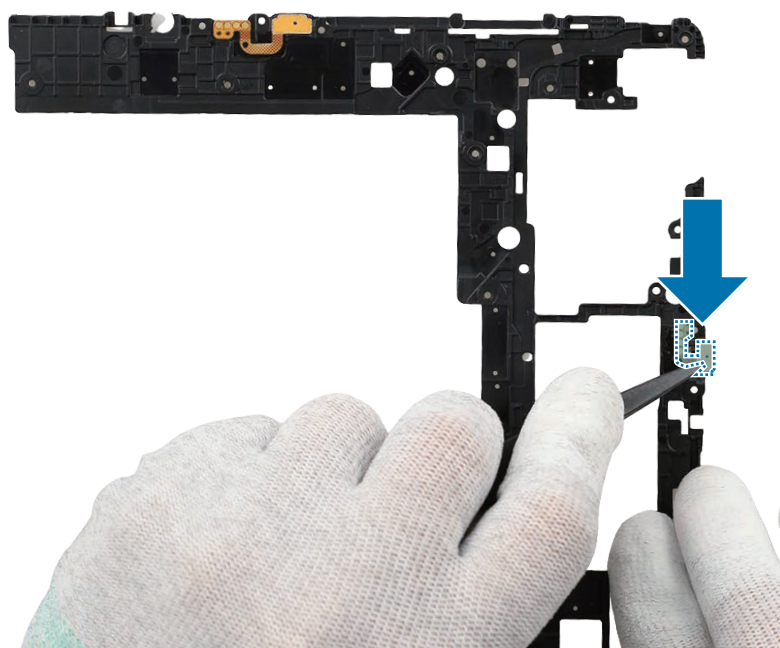
- 2 Press the top microphone with your fingers softly so that the microphone can be completely attached.

⚠ Be careful not to damage the microphone.



- 3 Using the tweezers, remove all release film of a new side microphone adhesive tape and assemble the side microphone to the exact position of the bracket.

⚠ Be careful not to damage the microphone and bracket.



- 4 Press the side microphone with your fingers softly so that the microphone can be completely attached.

⚠ Be careful not to damage the microphone.



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

Charging Port

Disassembly

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

1 Using the tweezers, disconnect the battery connector from the main board first. For the 5G or LTE devices, separate the 3 coaxial cable connectors (Grey/Blue/Black). Using the tweezers, separate 2 connectors from the main board and remove the screen flex cable completely.



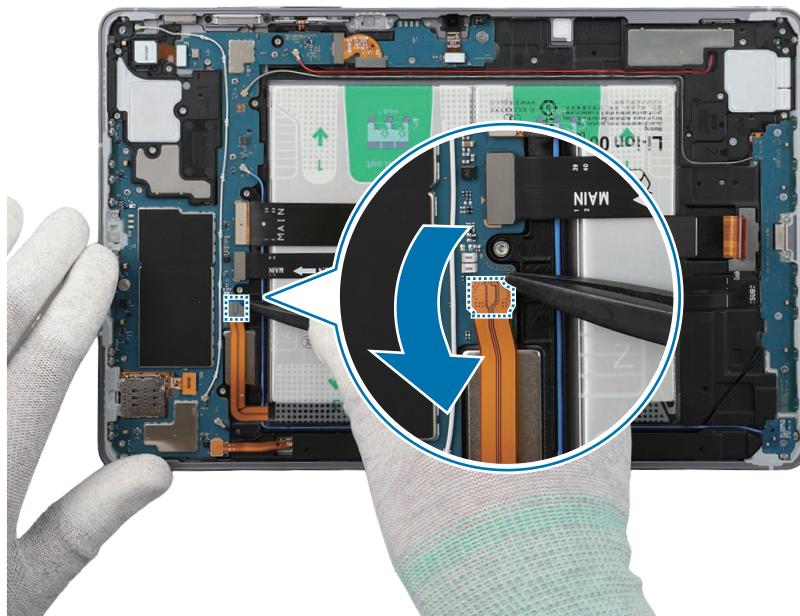
- Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.

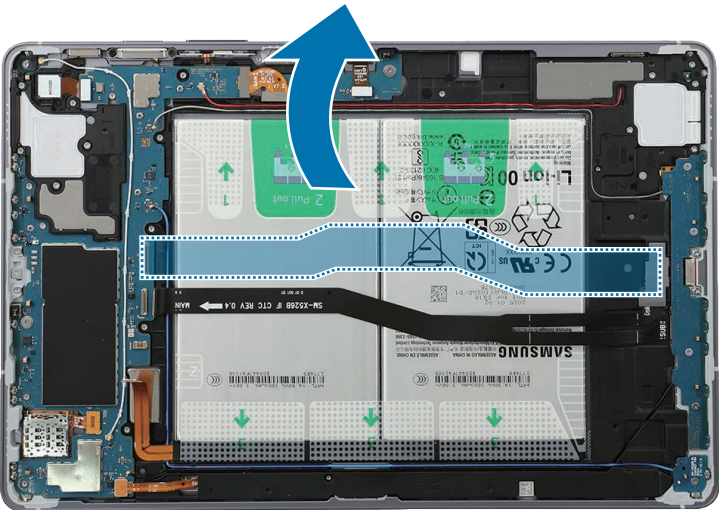
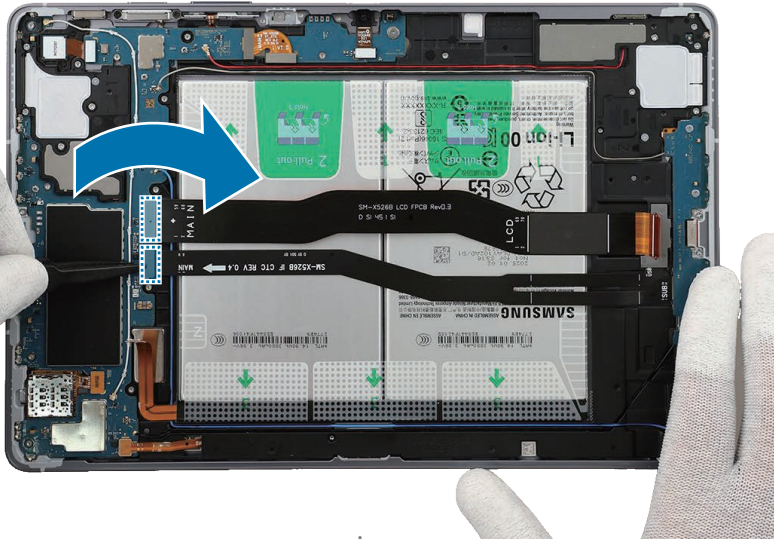
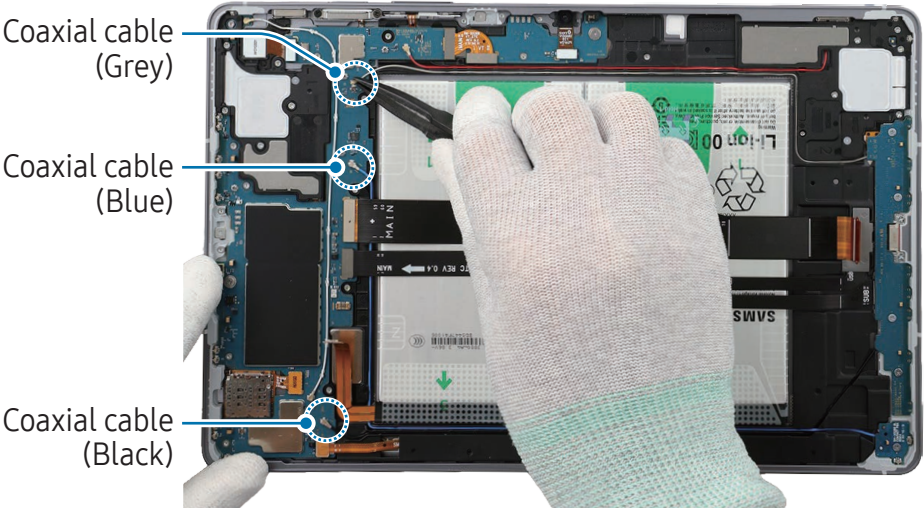


- Be careful not to damage the cable while removing the connector.
- Be careful not to damage the near components.



- The 3 coaxial cables (Grey/Blue/Black) are only available for the 5G or LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.

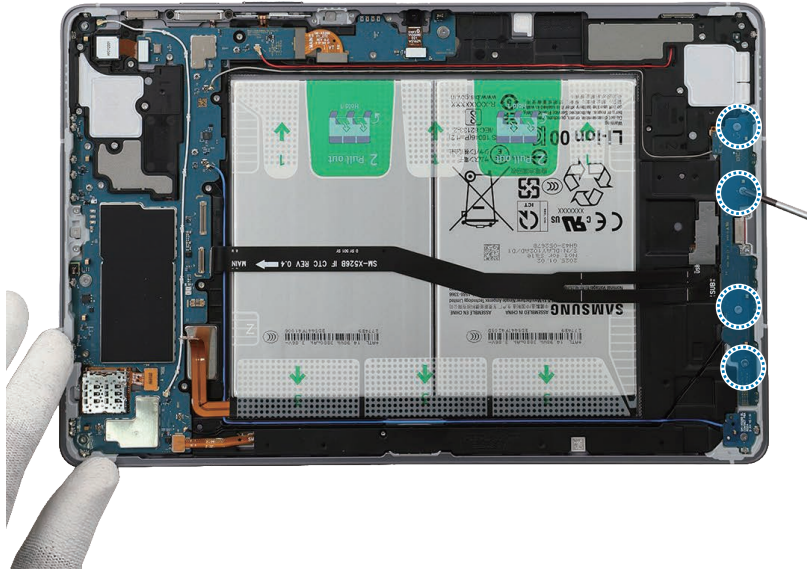




2 Check and remove the screws at the 4 different points on the sub PBA using a cross-head screwdriver.

⚠ Be careful not to damage the near components.

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



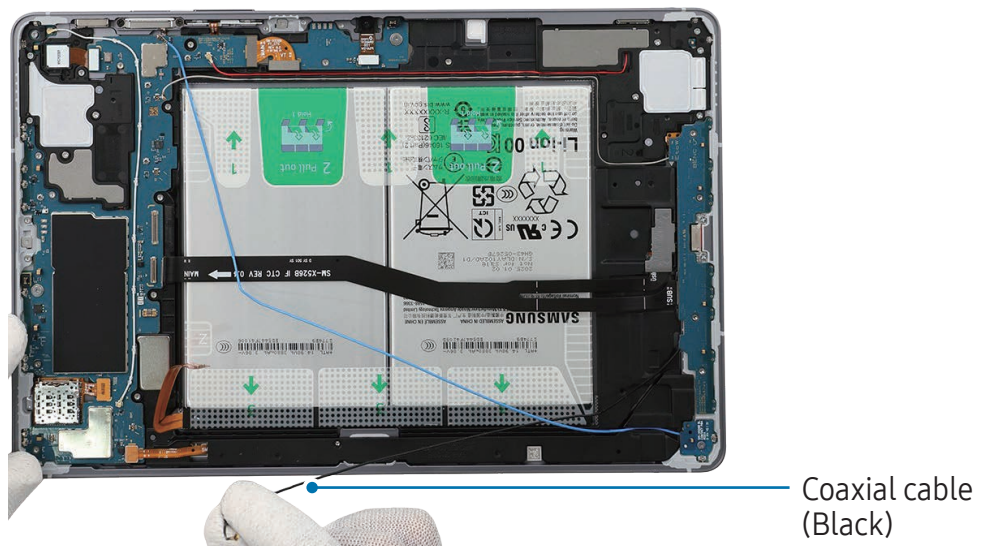
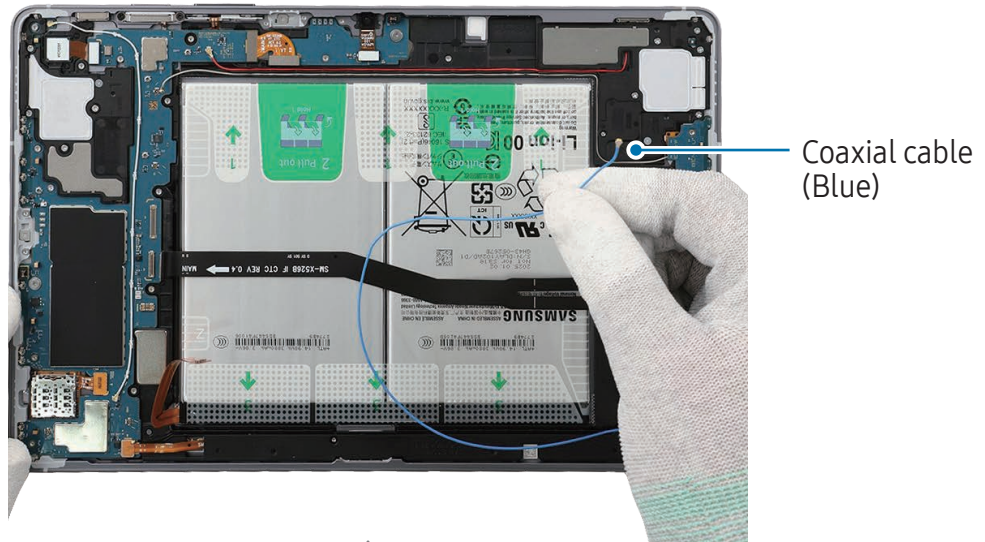
3 For the 5G or LTE devices, disconnect the 3 coaxial cable (Blue/Black/Grey) in the back cover module. Disconnect the sub PBA carefully from the back cover module. Before removing the sub PBA completely, using the tweezers separate the flex cable connector from the sub PBA and separate the sub PBA completely.

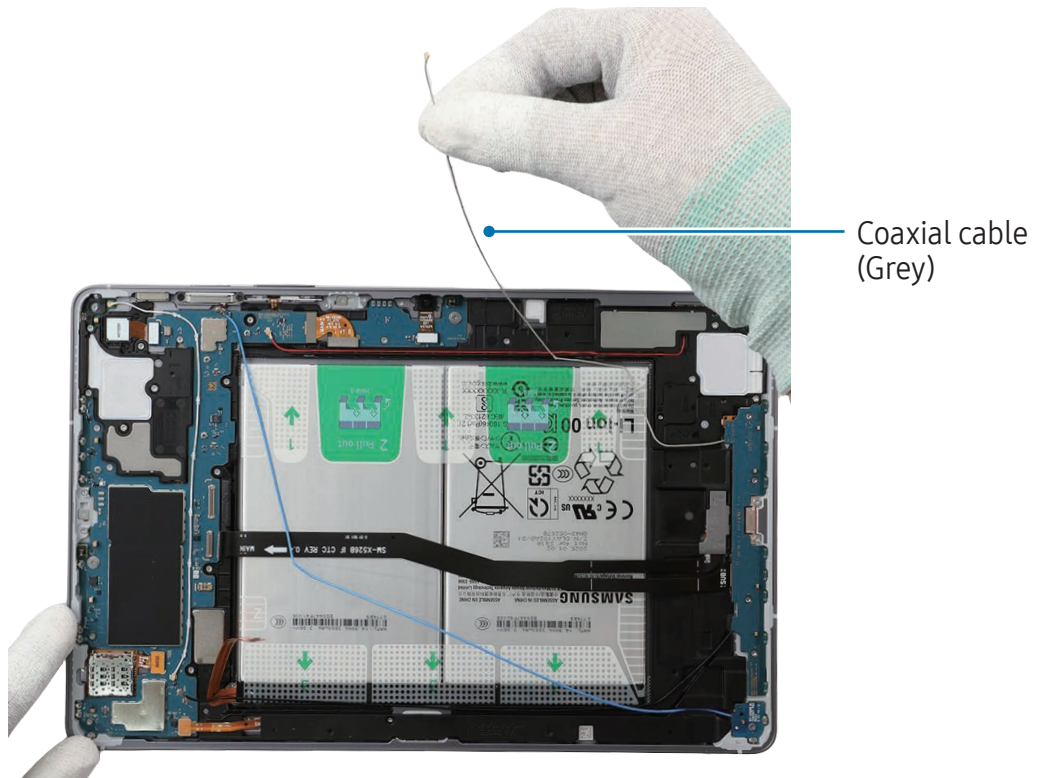
⚠ • Check the position of the overlapping cables and disconnect them in order from the top.

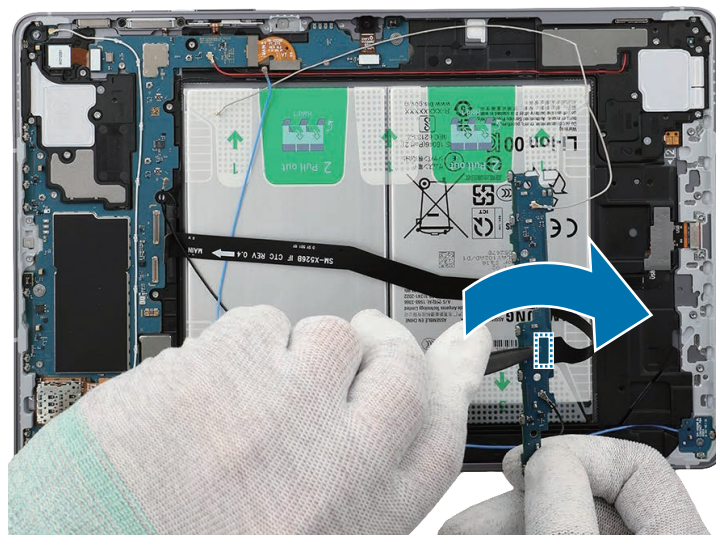
- Be careful not to damage the cable while removing the connector.
- Be careful not to damage the near components.

✓ • The 3 coaxial cables (Grey/Blue/Black) are only available for the 5G or LTE devices.

- The cables and connectors may vary depending on the country, region, or specifications.

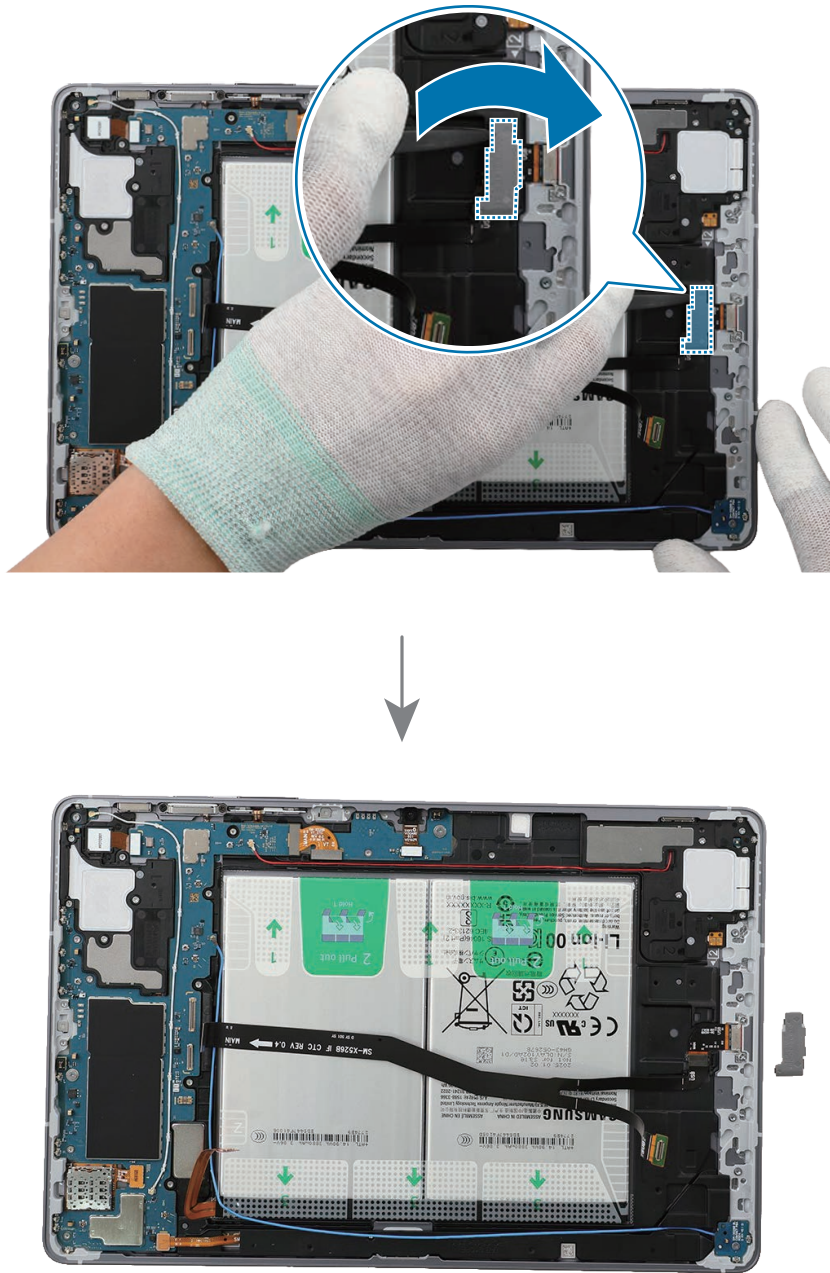




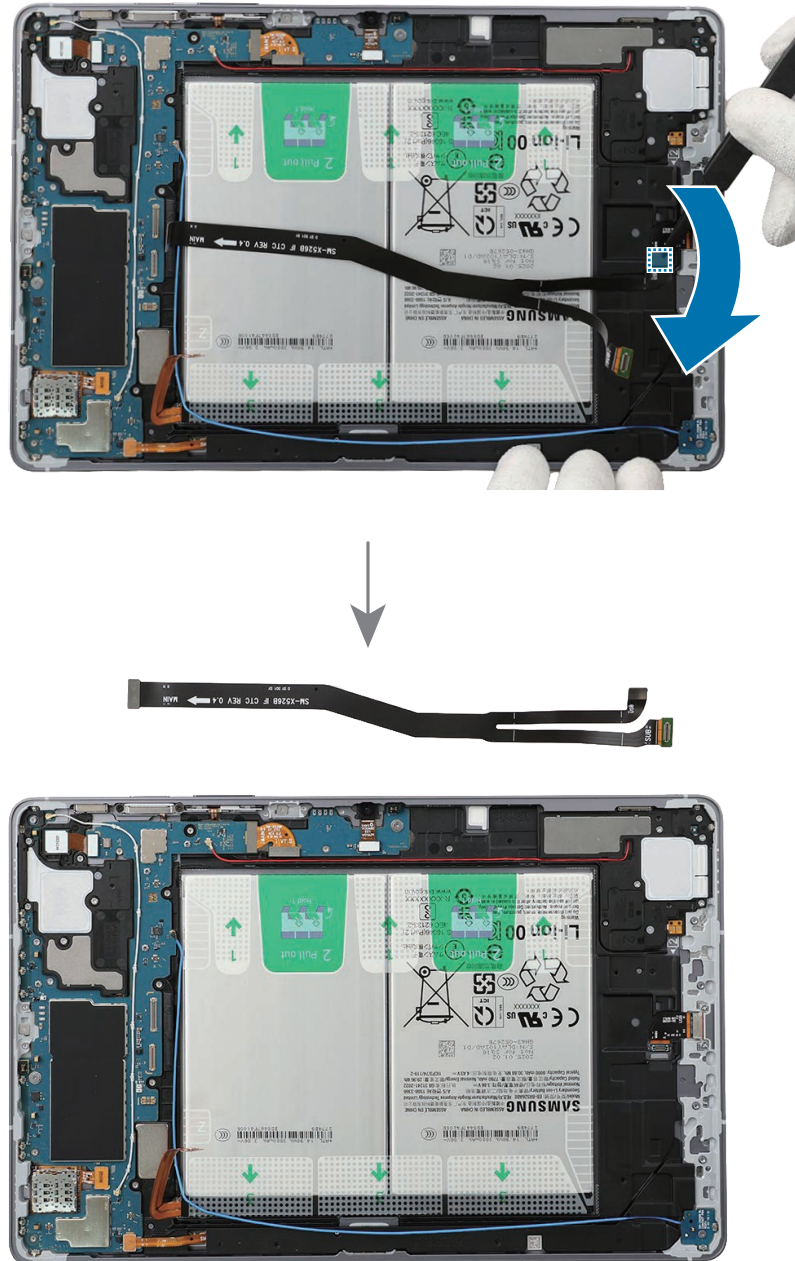




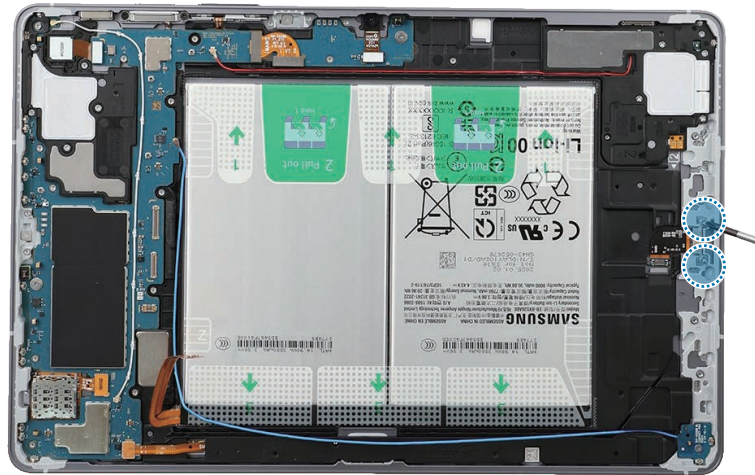
- 4 Using the tweezers, disassemble the flex cable connector cover.



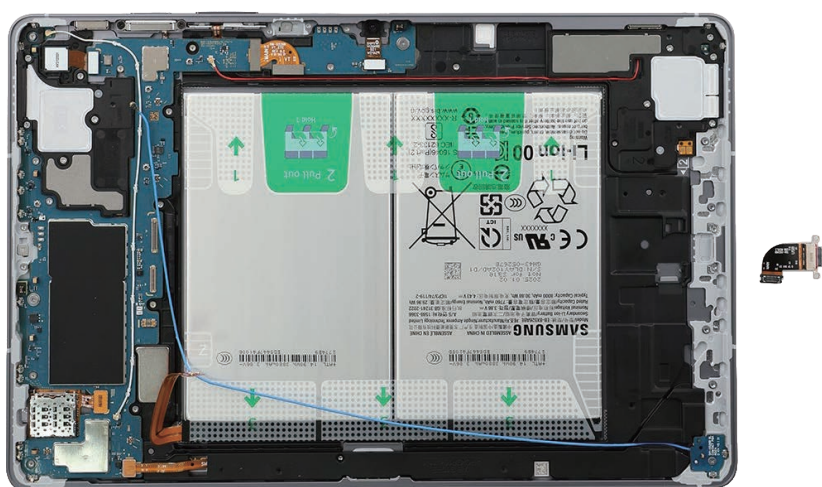
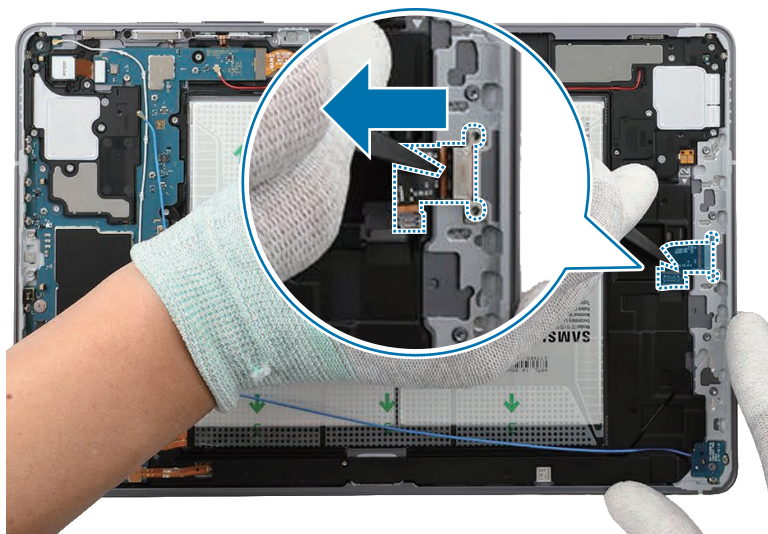
- 5 Using the tweezers, disconnect the flex cable connector and remove the charging port flex cable completely.



- 6 Check the screws at the 2 different points on the charging port and remove them using a cross-head screwdriver.
-  Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



- 7 Using the tweezers, separate the FPCB of charging port carefully and remove the charging port from the back cover module.

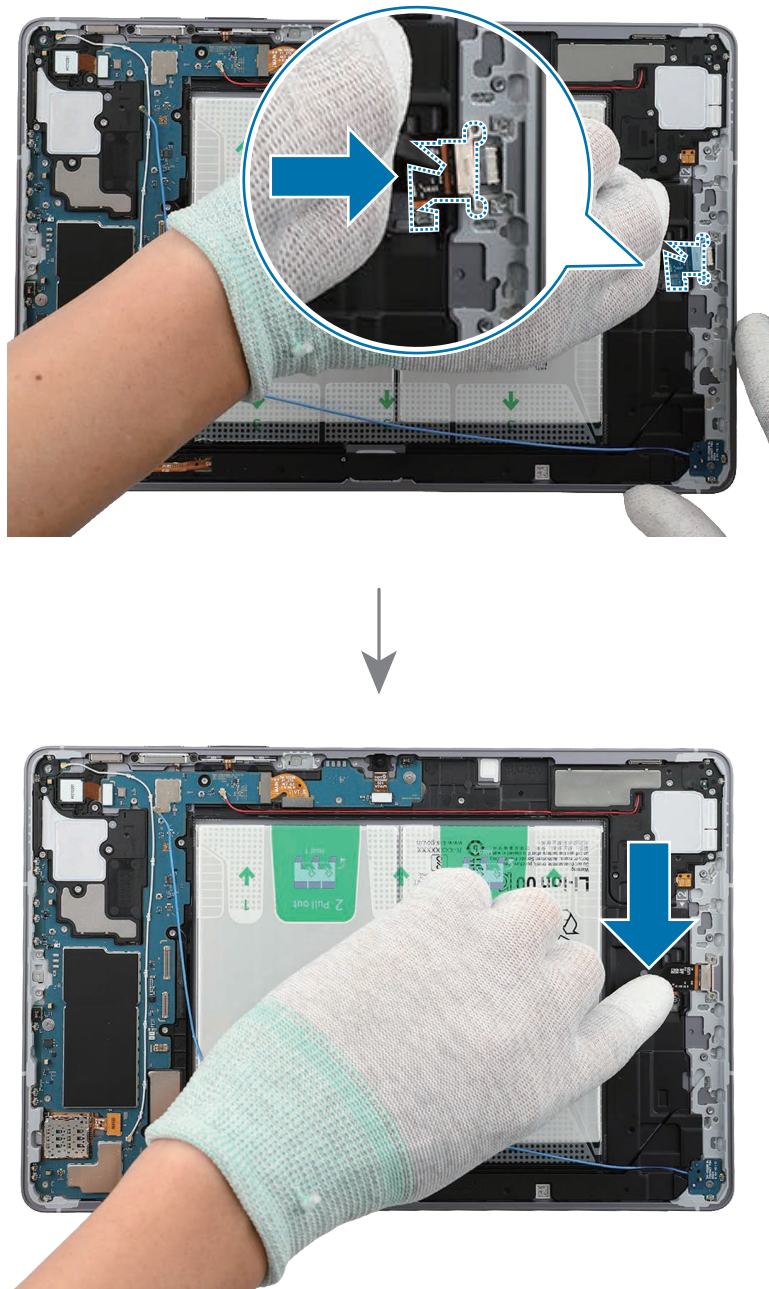


Reassembly

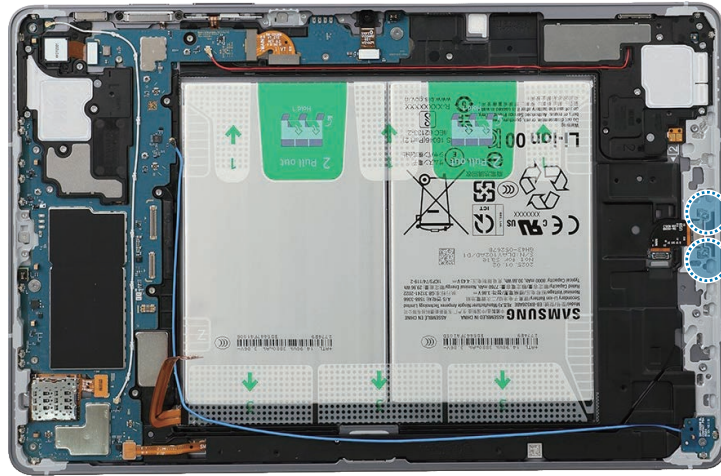
 Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

1 Remove the release film of the new charging port. Insert the charging port into the exact position of the back cover module and press down on it in its position softly.

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

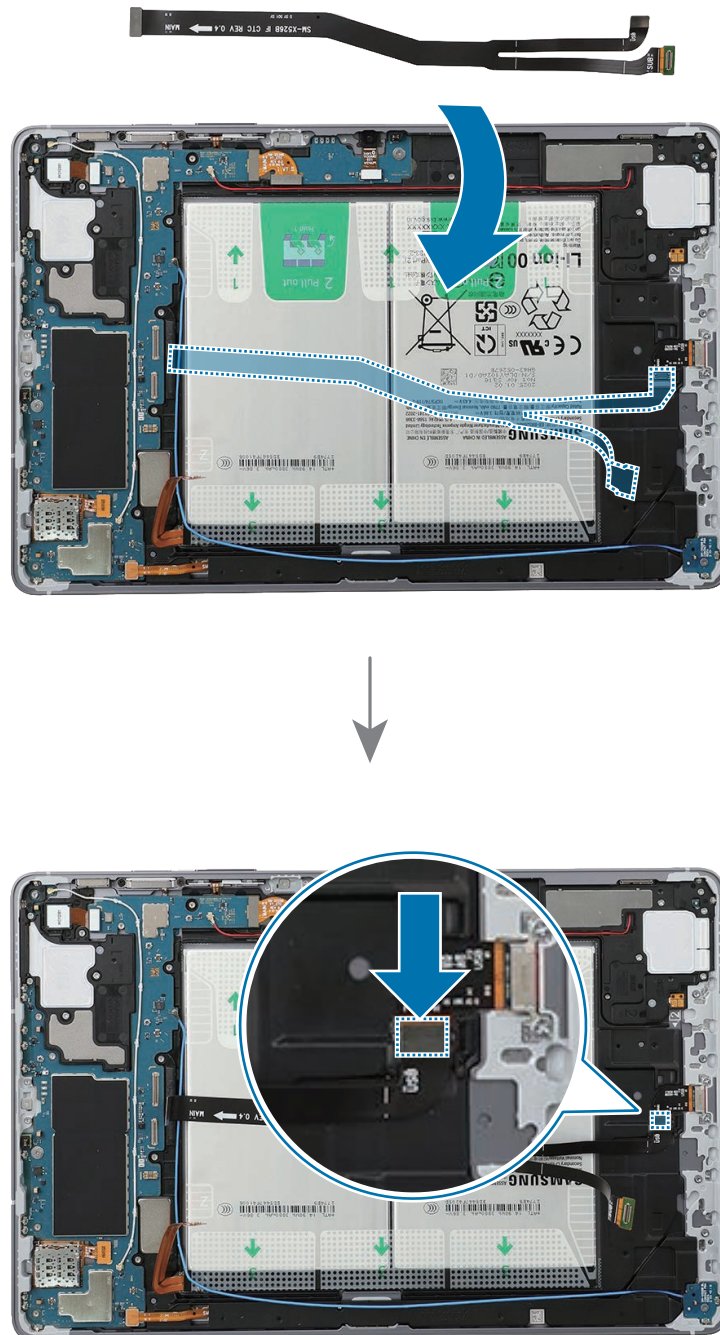


- 2 Check the screw 3570 (2 ea) on the charging port module and fasten them using a cross-head screwdriver.

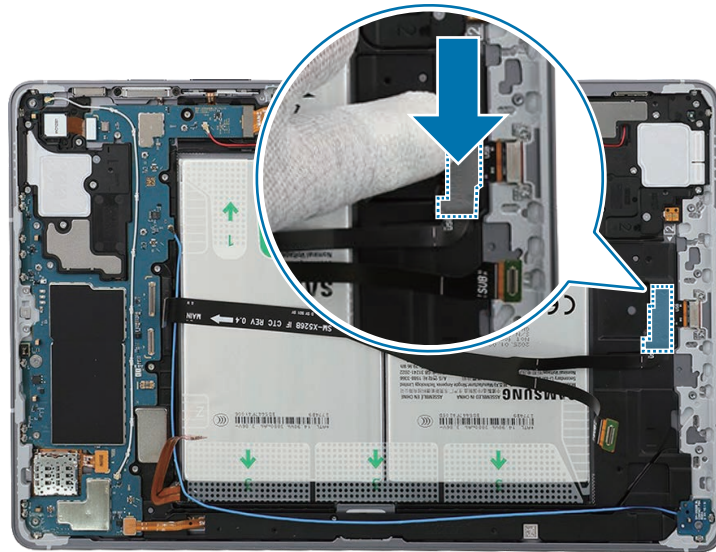


3 Place the flex cable to the back cover module and connect the connector carefully.

⚠ Be careful not to damage the cable.



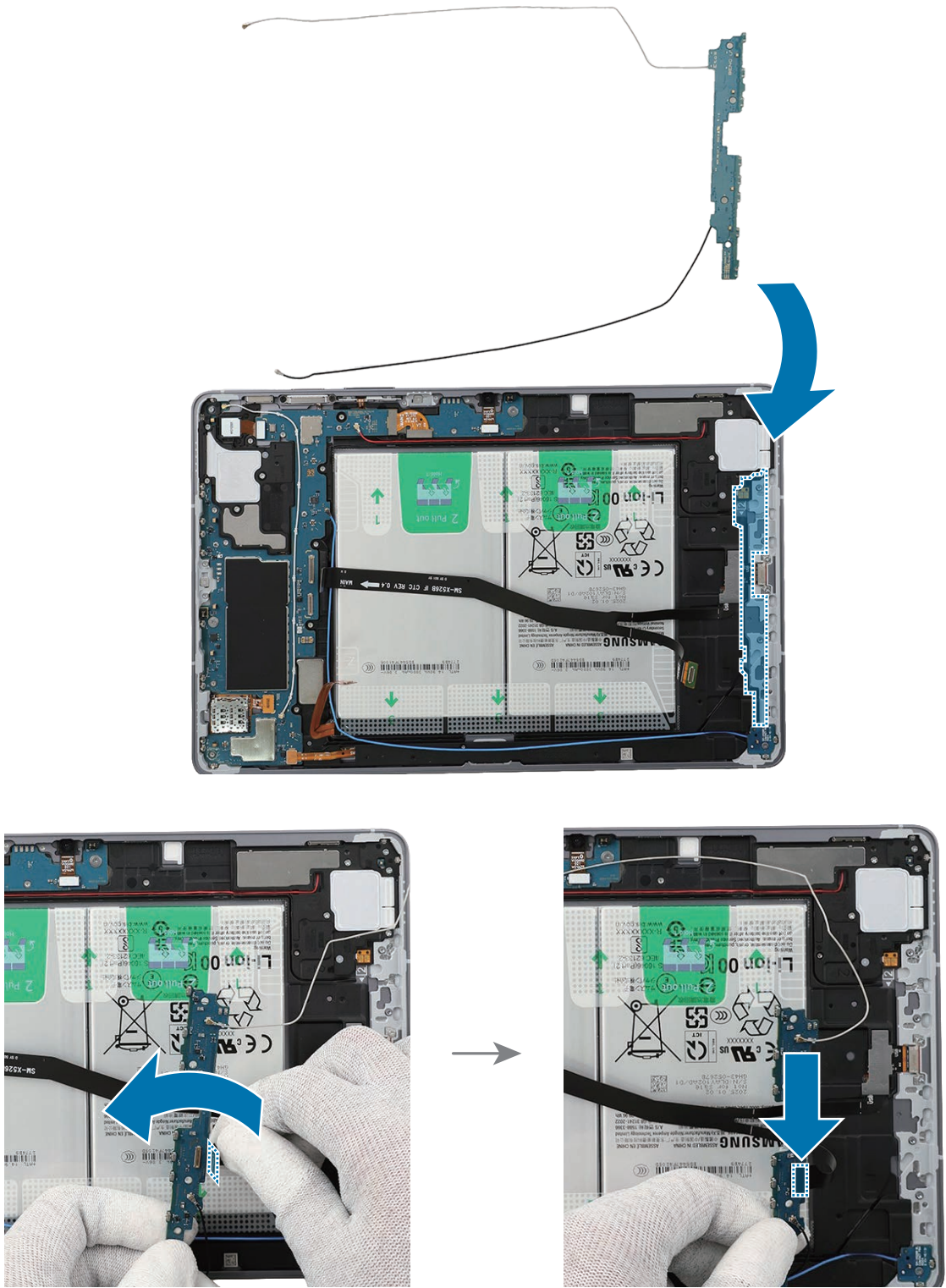
- 4 Using the tweezers, place the flex cable connector cover to the exact position, and assemble it to the back cover module. Press down on it in its position smoothly.

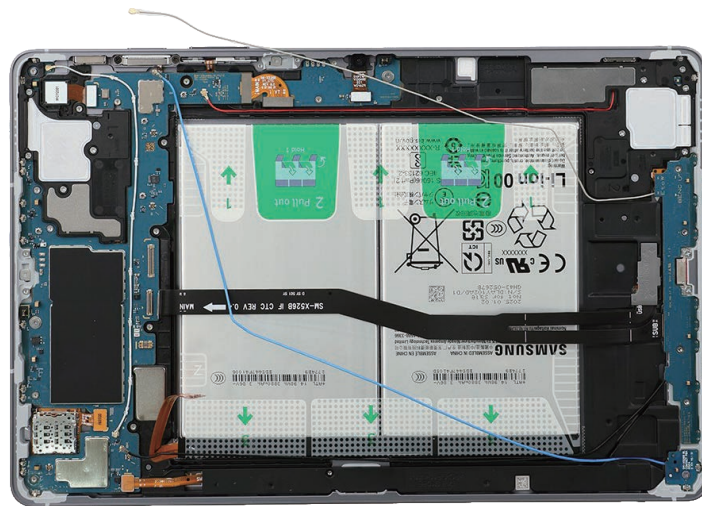


- 5 Connect the flex cable connector on the back of sub PBA. Place the sub PBA to the exact position, and assemble it to the back cover module. Press down on it in its position smoothly.



- Be careful not to damage the sub PBA side contact.
- Be careful not to damage the cables and connectors.





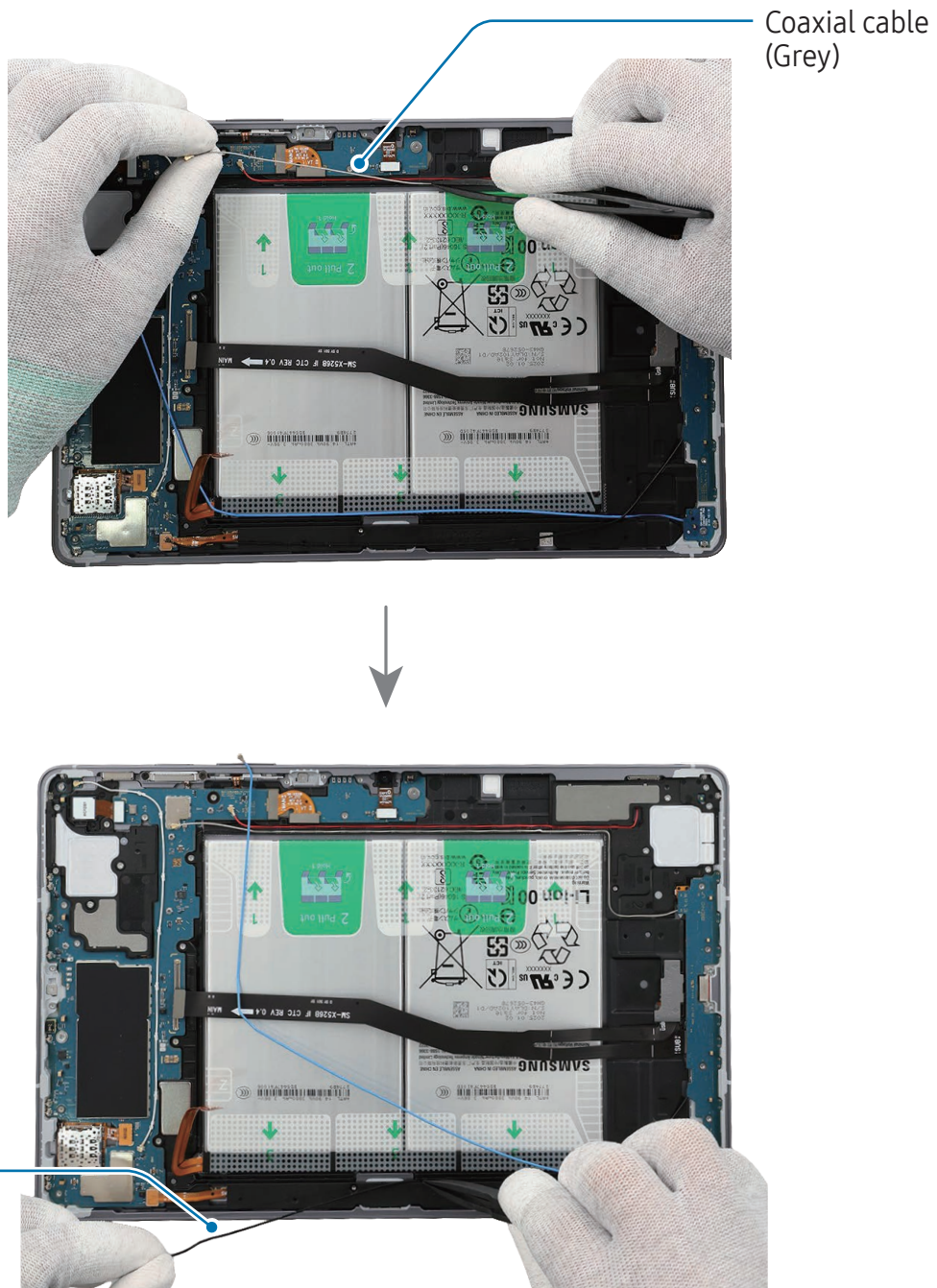
6 For the 5G or LTE devices, carefully connect the cables (Grey/Black/Blue) to the speaker modules.

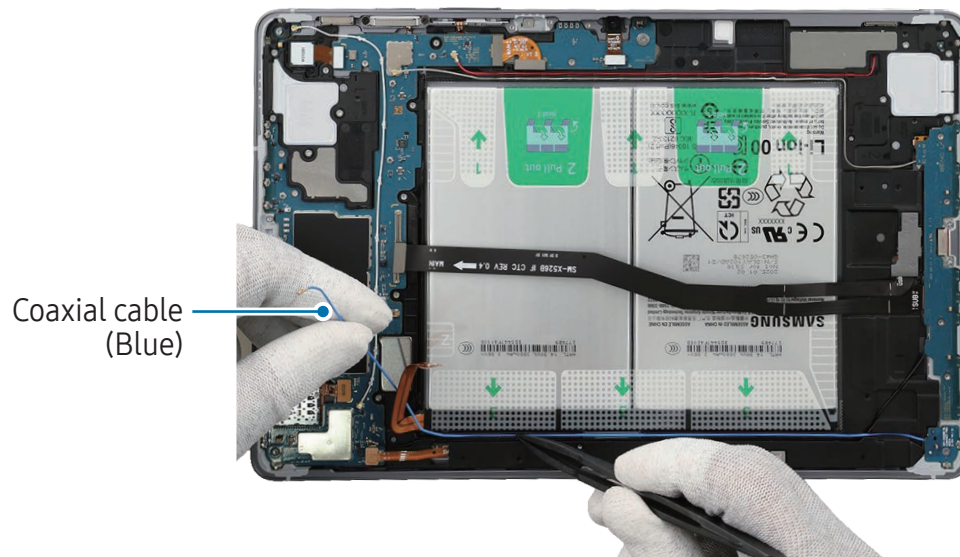


- Be careful not to damage the near components.
- Be careful not to damage the cables while connecting the connector.



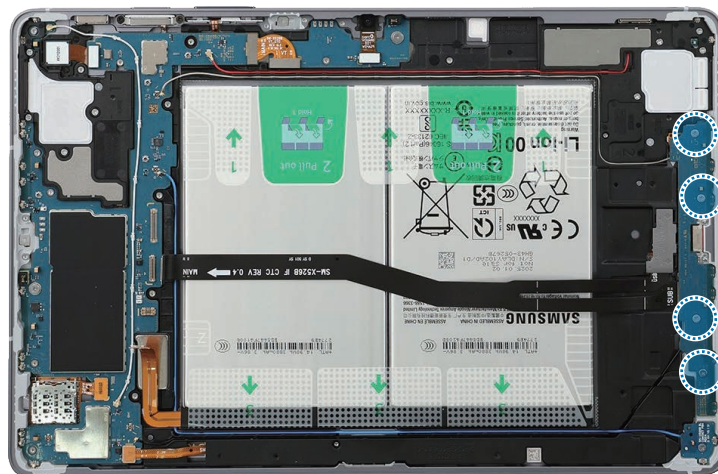
- The 3 coaxial cables (Grey/Black/Blue) are only available for the 5G or LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.





7 Check the screw 3523 (4 ea) and fasten them on the sub PBA using a cross-head screwdriver.

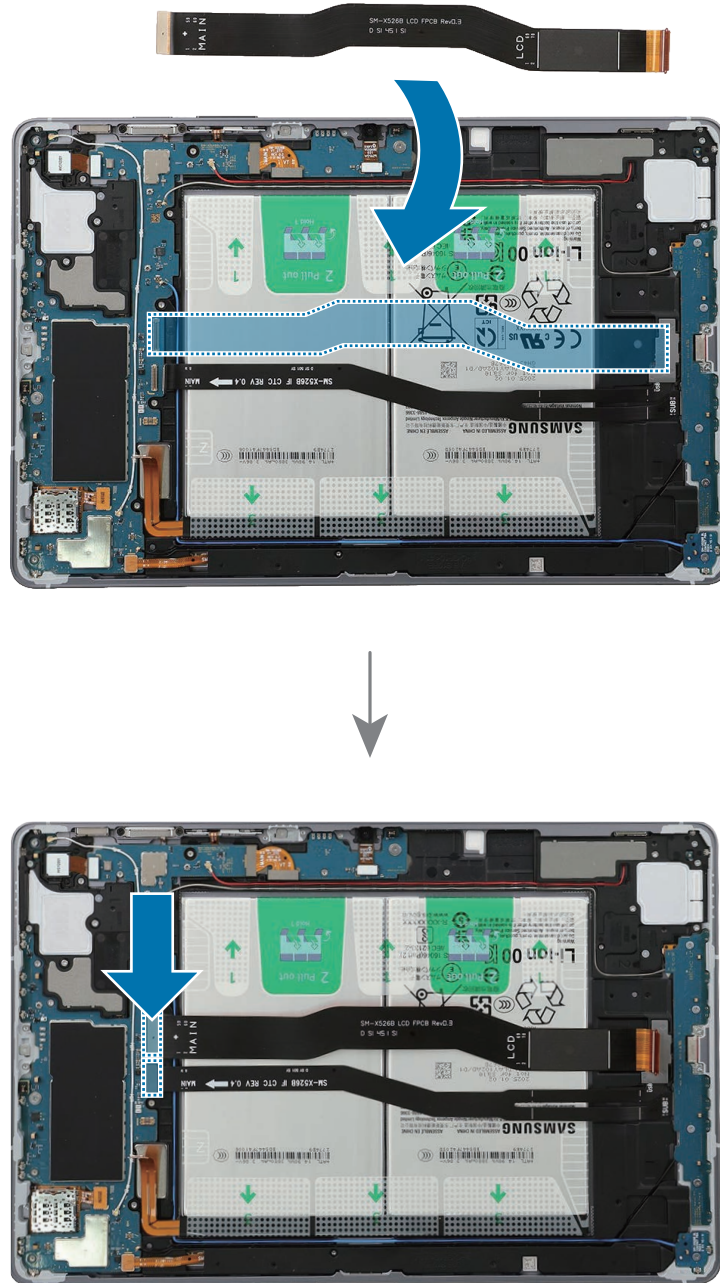
⚠ Be careful not to damage the sub PBA and near components.



8 Place the screen flex cable to the back cover module and connect the 2 connectors carefully.



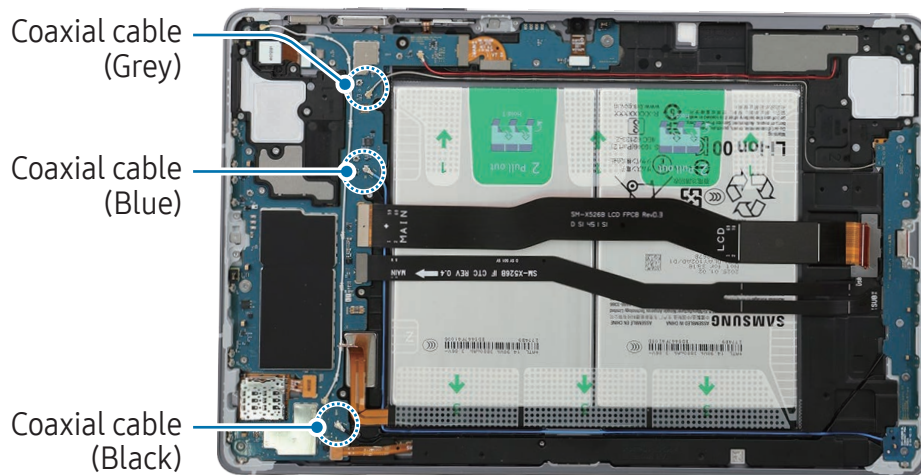
- Be careful not to damage the main board and near components.
- Be careful not to damage the cable while connecting the connector.



9 For the 5G or LTE devices, connect the 3 coaxial cables (Grey/Blue/Black) to the main board carefully.



- The 3 coaxial cables (Grey/Blue/Black) are only available for the 5G or LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



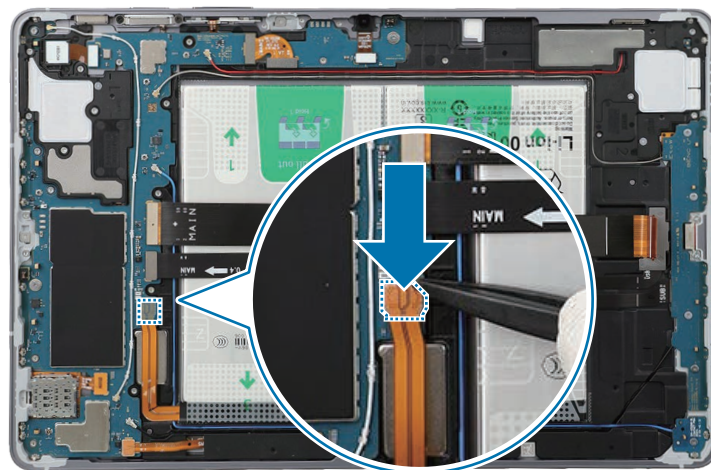
10 Connect the battery connector to the main board.



Be careful not to damage the battery.



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



Reassemble the **Bracket** and **Screen** to complete assembly.

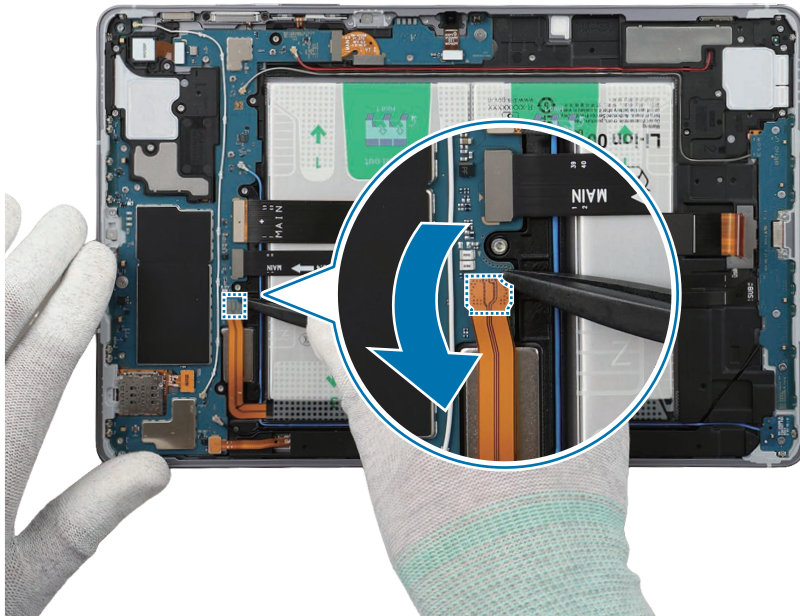
Front Camera

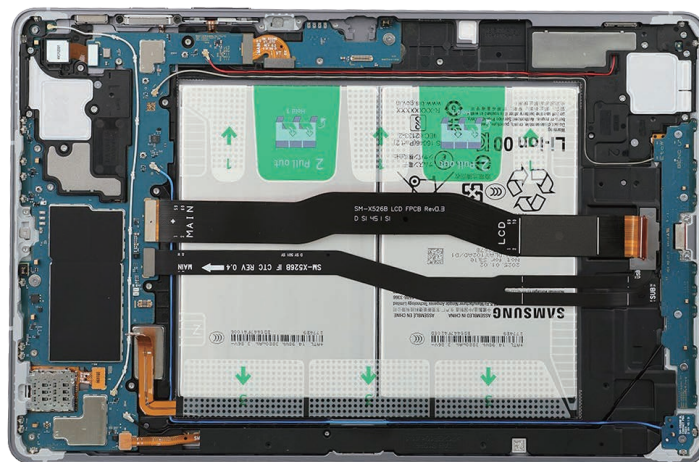
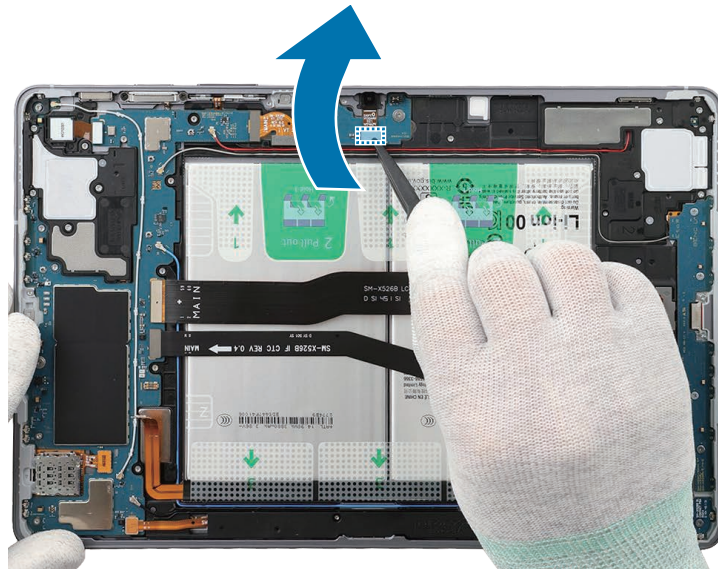
Disassembly

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

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

-  • Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.
-  • Be careful not to damage the main board and near components.



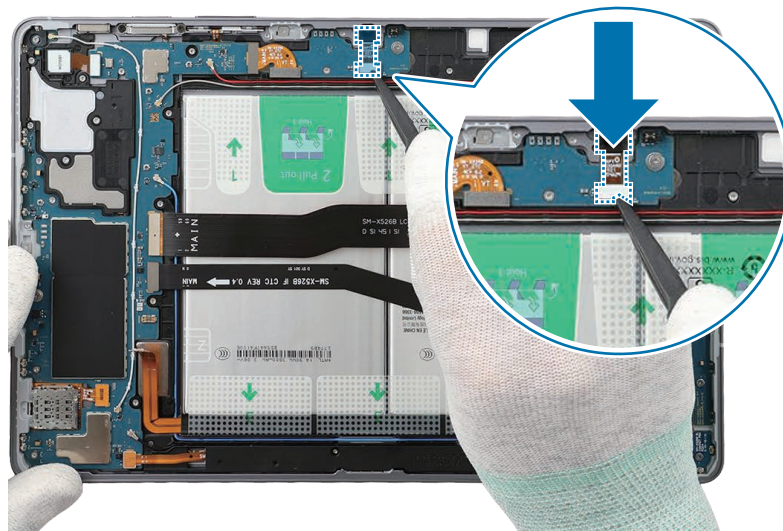


Reassembly

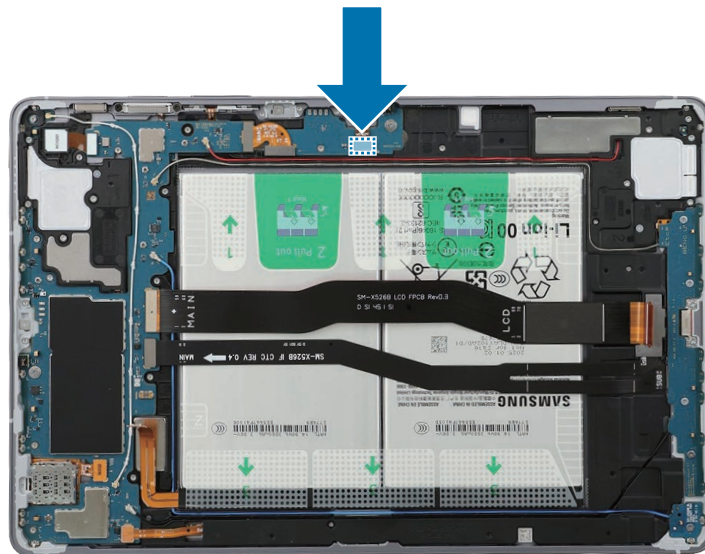
⚠ Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

1 Using the tweezers, place the front camera in the camera hole so that the lens faces upward, and gently insert the front camera.

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



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



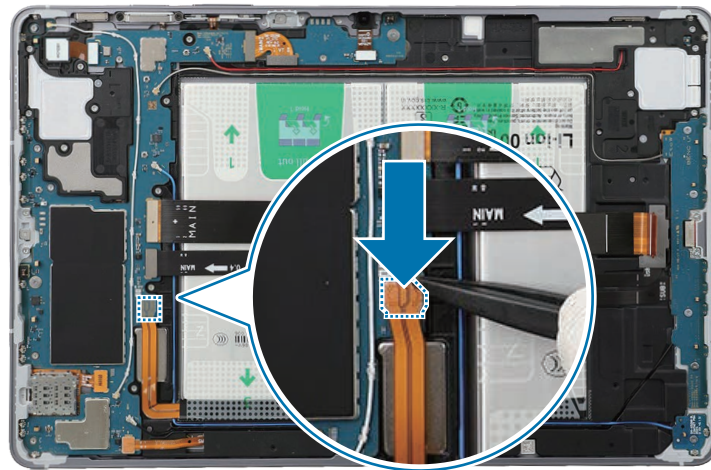
3 Connect the battery connector to the main board.



Be careful not to damage the battery.



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



Reassemble the **Bracket** and **Screen** to complete assembly.

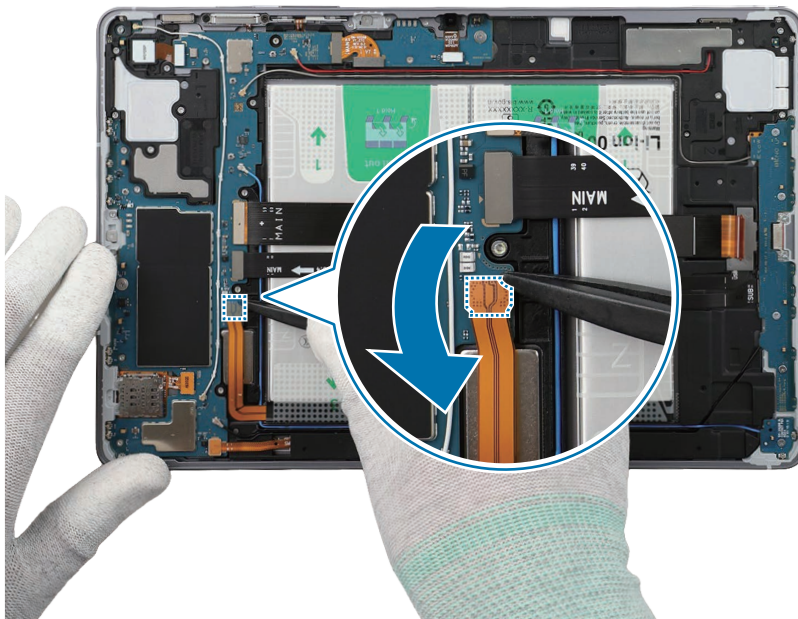
Rear Camera

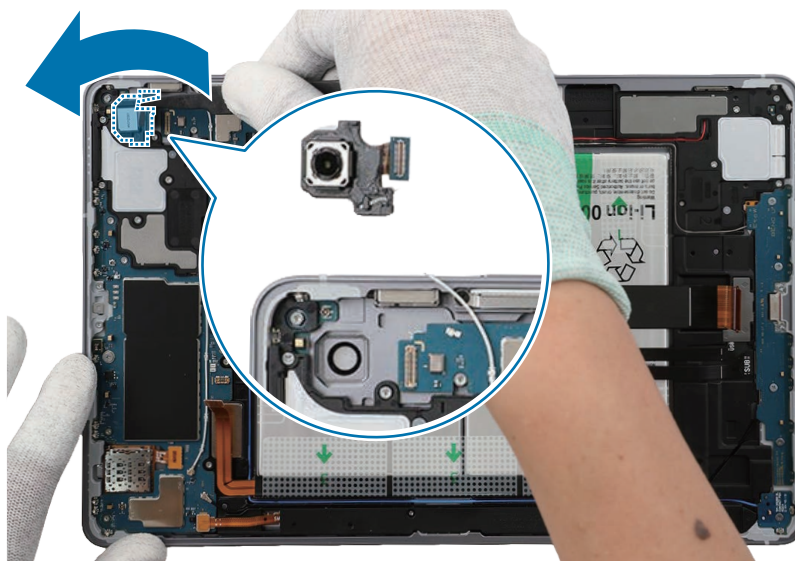
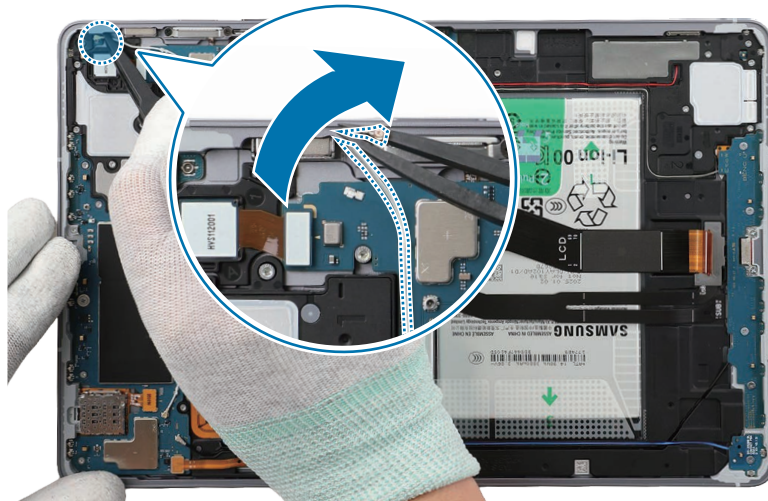
Disassembly

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

Using the tweezers, disconnect the battery connector from the main board. Then, disconnect the coaxial cable connector (white) from the main board and lift the coaxial cable (white) up and separate it from the rear camera module. Using the tweezers, separate the rear camera connector from the main board and lift up on the separator groove of the rear camera and remove it. Leave the camera lens facing up.

-  • Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.
-  • Be careful not to damage the cable.
- Be careful not to damage the main board and near components.



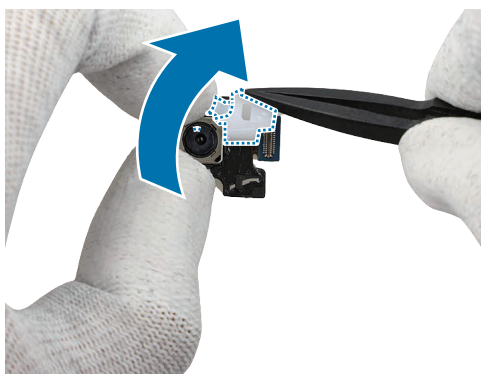


Reassembly

 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 and your fingers, remove all release films from the new rear camera module.

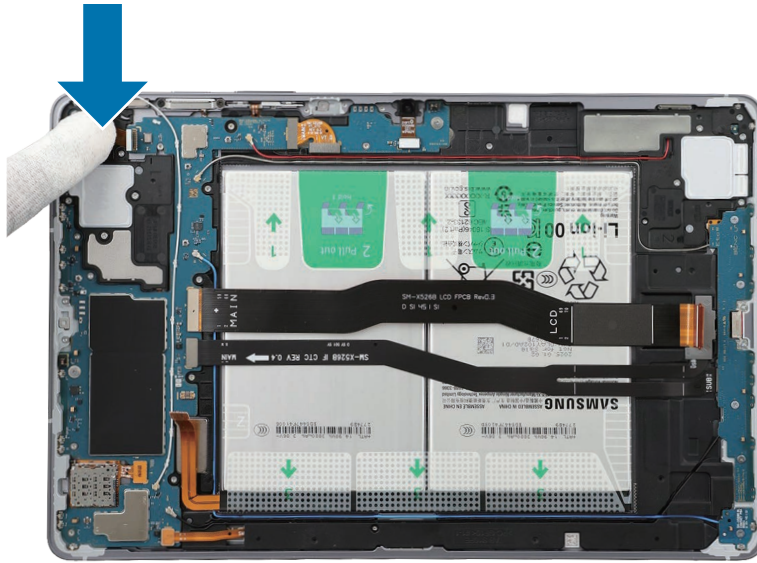
 Be careful not to damage the camera.



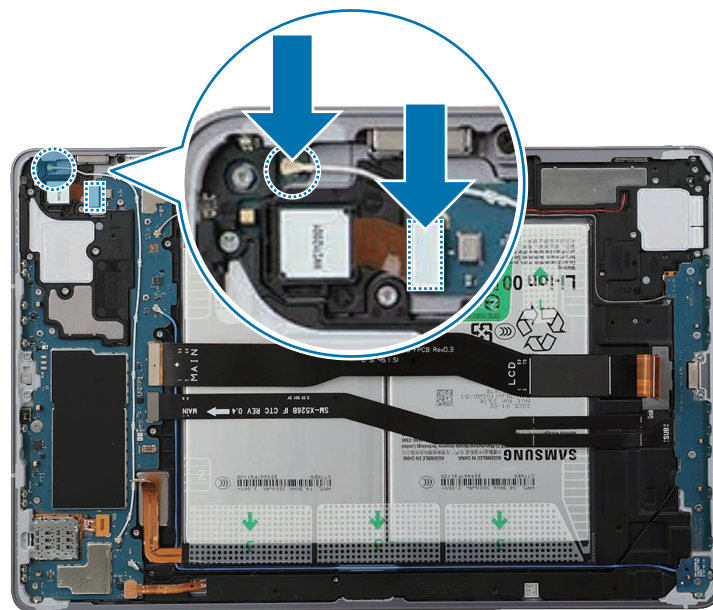
2 Using the tweezers, gently insert the rear camera into the camera hole so that the lens faces backward.



- 3 Press down softly and evenly on the camera so that the rear camera can be fully inserted.



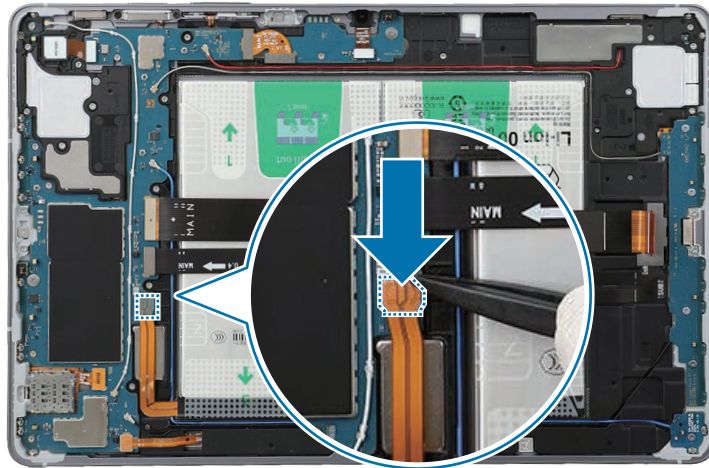
- 4 Using the tweezers, connect the rear camera connector and the coaxial cable connector (white) to the main board. Assemble the coaxial cable (white) completely in its position.



5 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.



📌 Reassemble the **Bracket** and **Screen** to complete assembly.

Speaker1

Disassembly

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

1 Using the tweezers, disconnect the battery connector from the main board first. Separate the coaxial cable connector (White) from the main board lift it up to separate from the rear camera module. For the 5G or LTE devices, separate the additional 4 coaxial cable connectors (Red/Blue/Grey/Black). Using the tweezers, separate 5 connectors from the main board. Then, remove the screen flex cable completely.



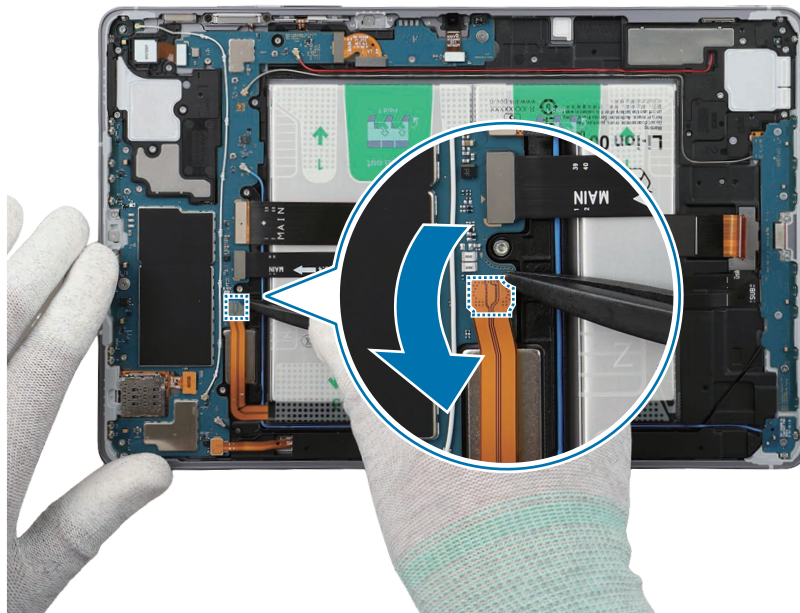
- Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.

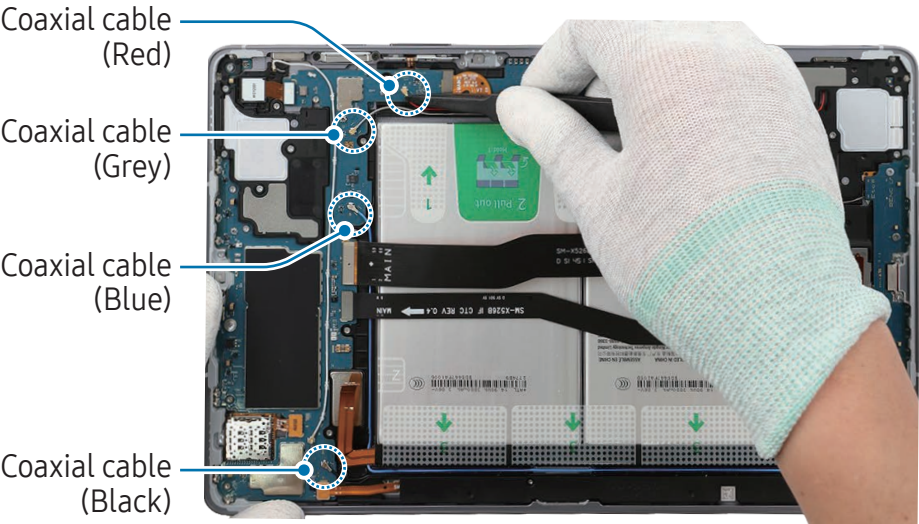
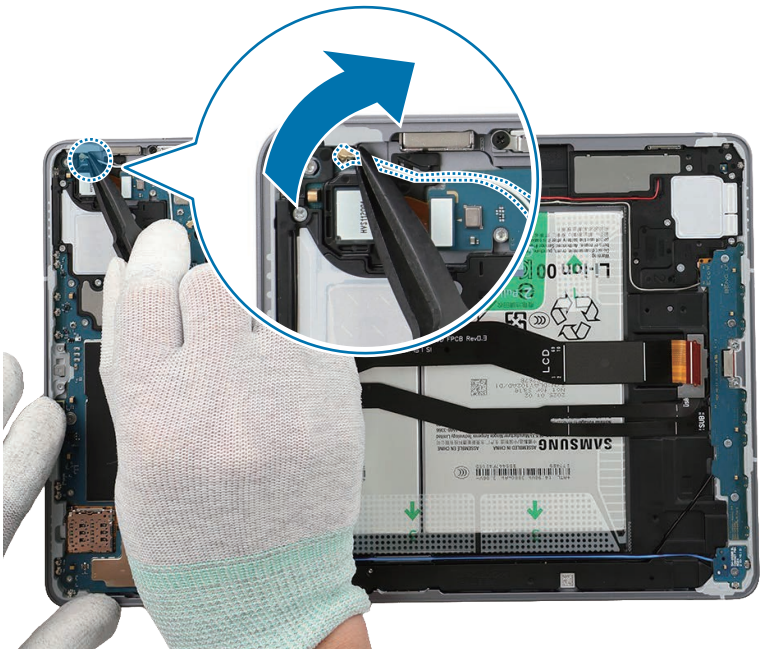


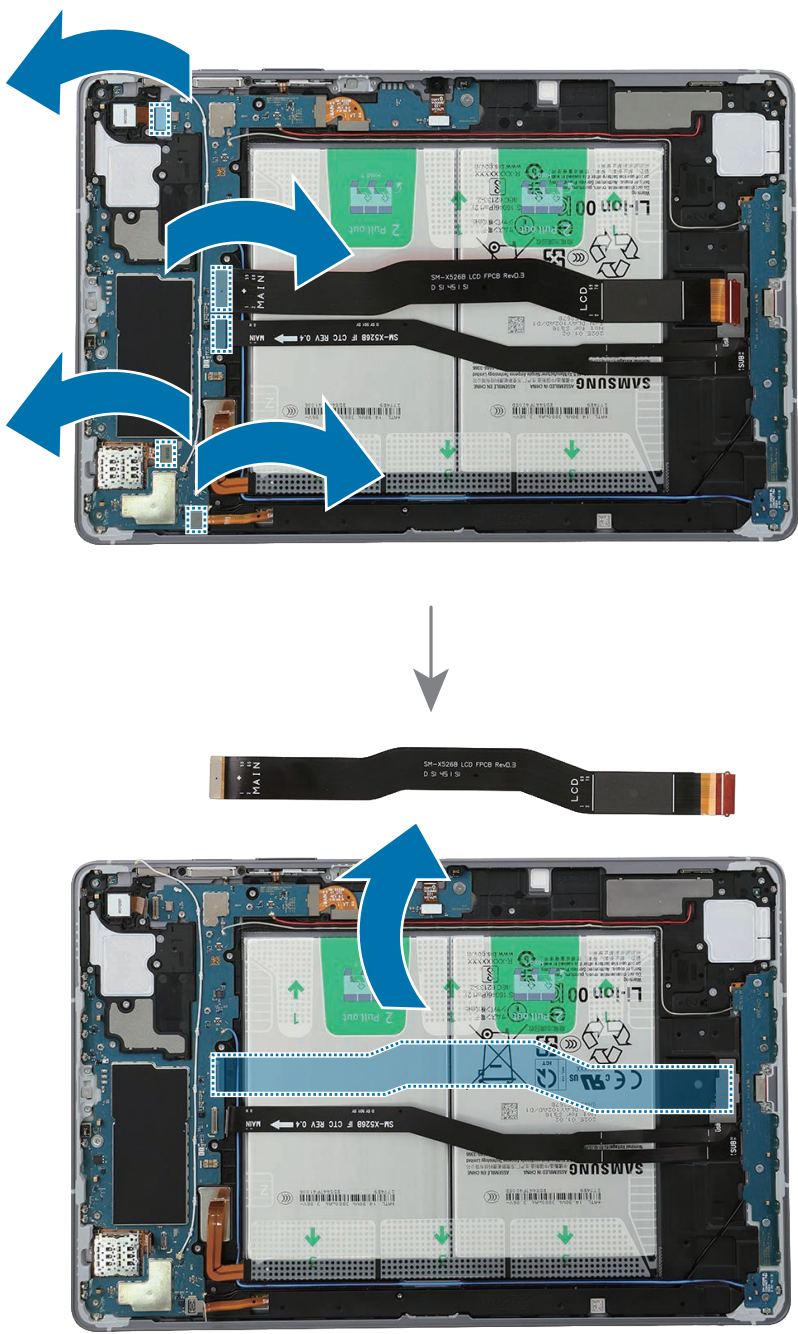
- Be careful not to damage the cable while removing the connector.
- Be careful not to damage the near components.



- The 4 coaxial cables (Red/Blue/Grey/Black) are only available for the 5G or LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.







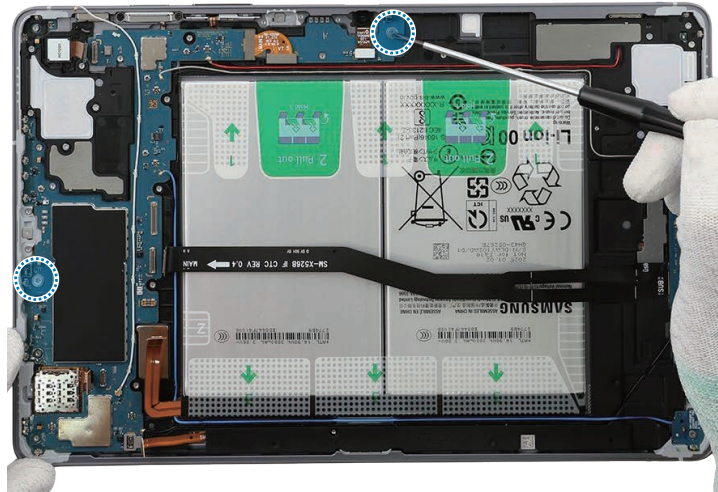
2 Check the screw on the main board and the screw on the VT board. Remove all 2 screws using a cross-head screwdriver.



Be careful not to damage the near components.



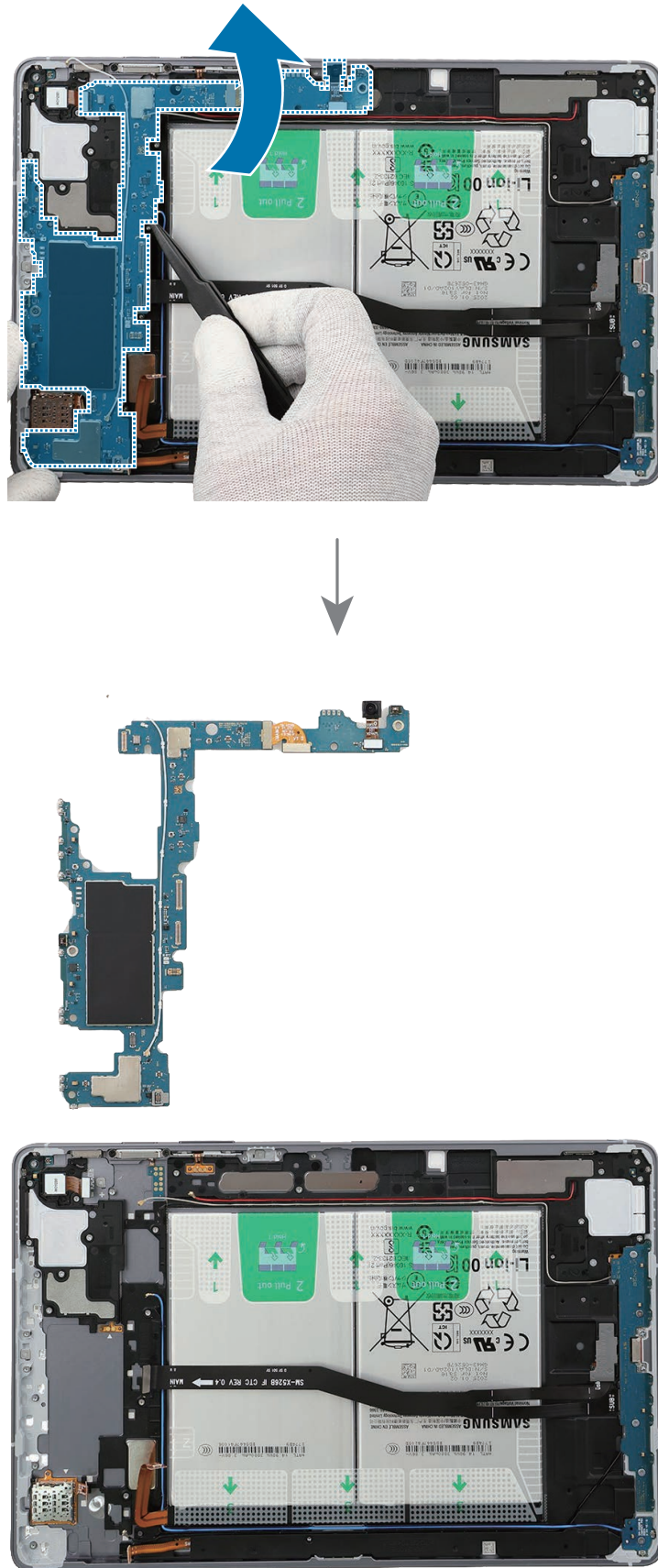
Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



3 Using the tweezers, lift up on the separator groove of the main board and remove the main board and VT board together.

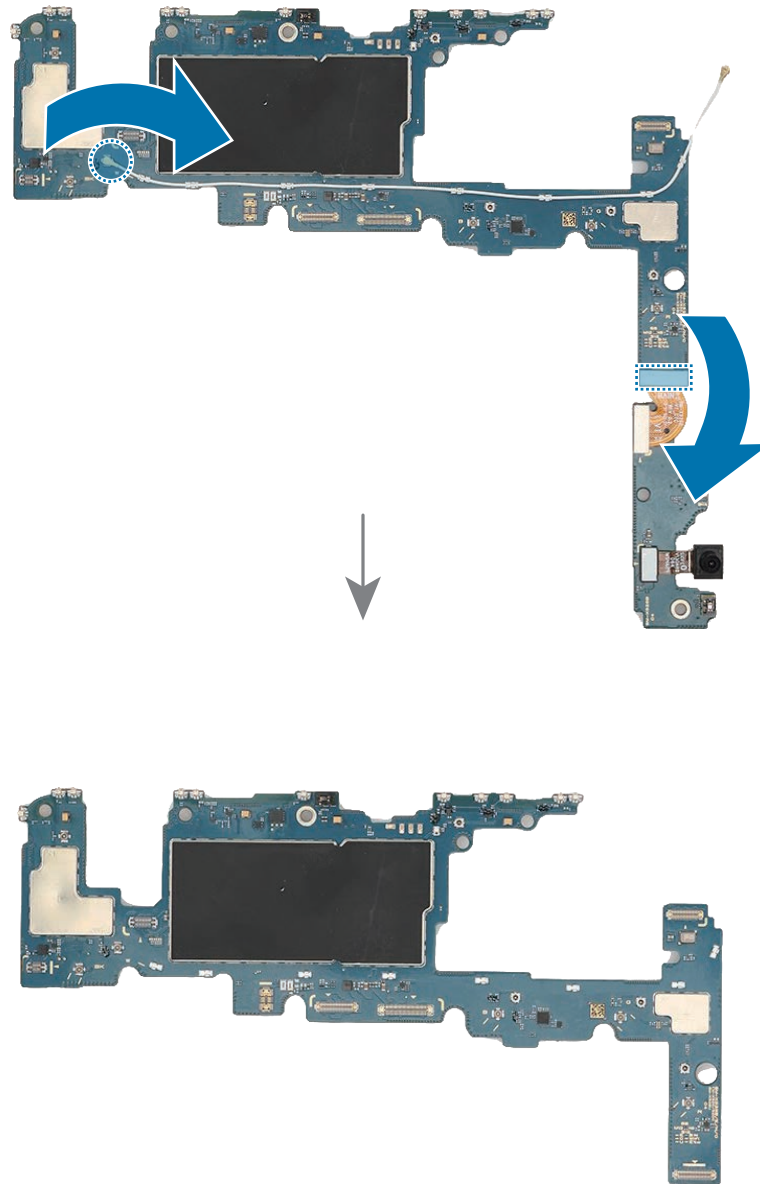


- Be careful not to damage the battery connector, the main board, and near components.
- The cables have to be positioned outside so as not to interfere when disassembling the main board.



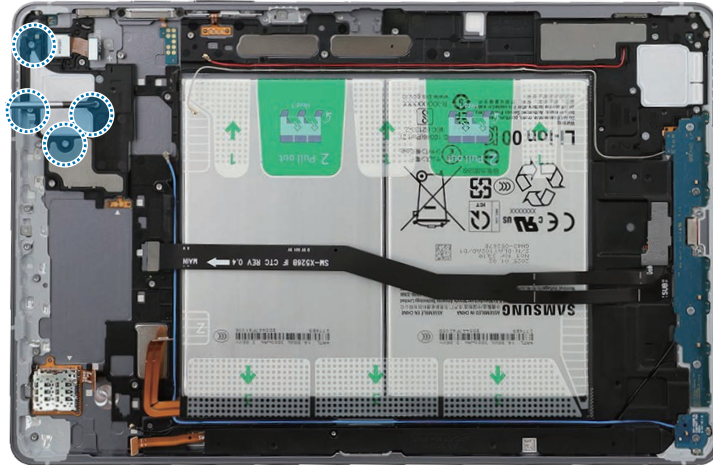


Remove the VT board and the coaxial cable (White) additionally to disassemble only the main board.

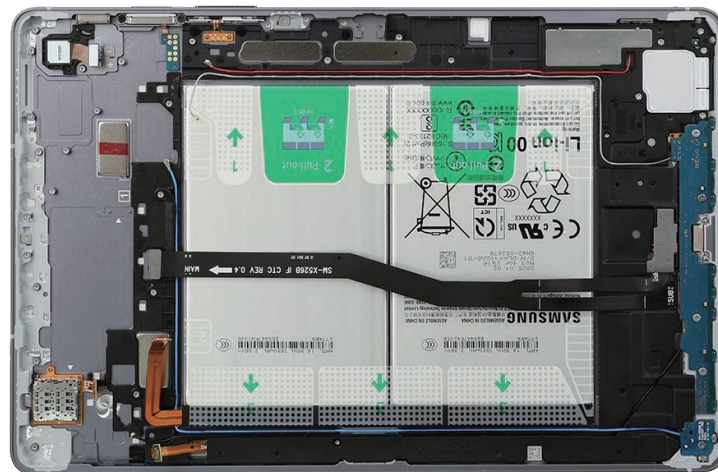
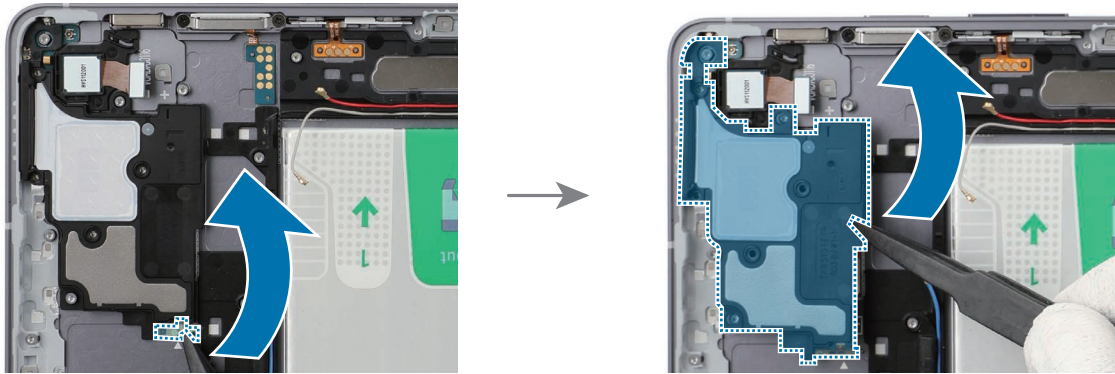


- 4 Check the 4 screws on the speaker module and remove them using a cross-head screwdriver.

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



- 5 Using the tweezers, separate the FPCB of the speaker module carefully. Lift up on the separator groove and remove it from the back cover module.

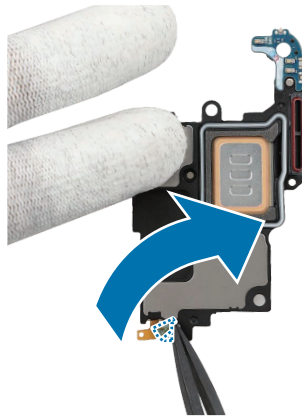


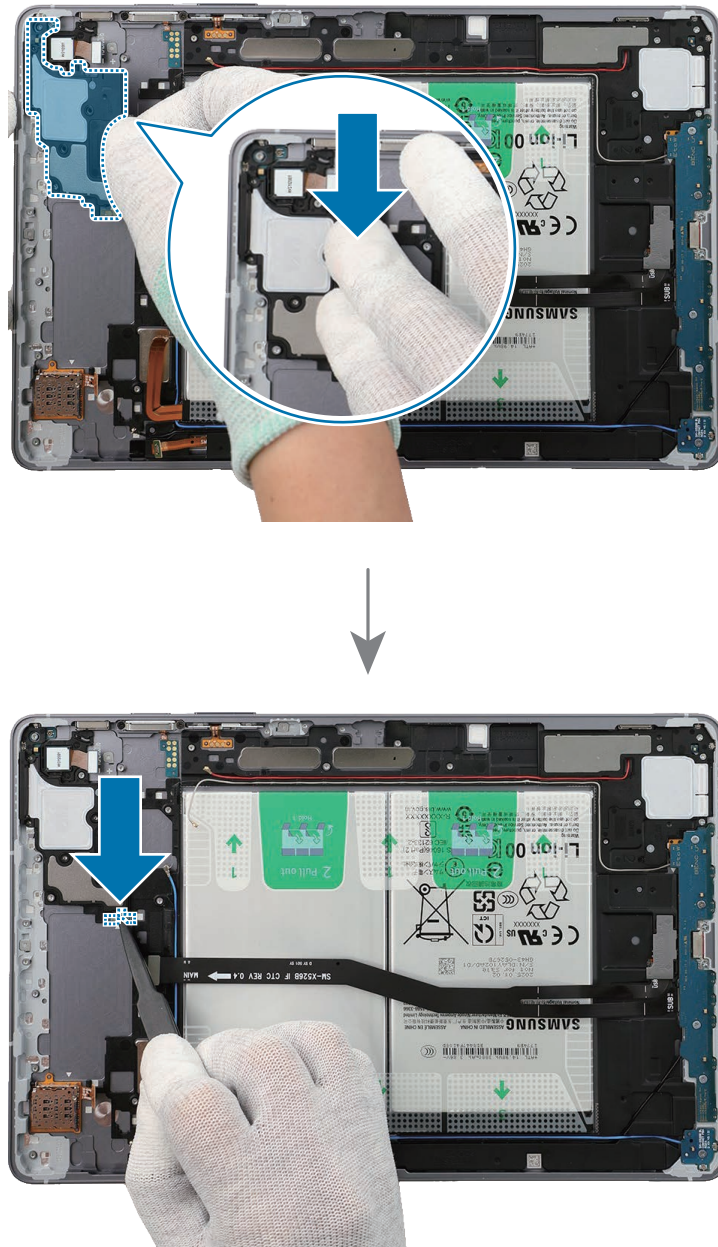
Reassembly

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

1 Using the tweezers, remove all release film of a new speaker. Place the speaker module to the exact position, and assemble it to the back cover module.

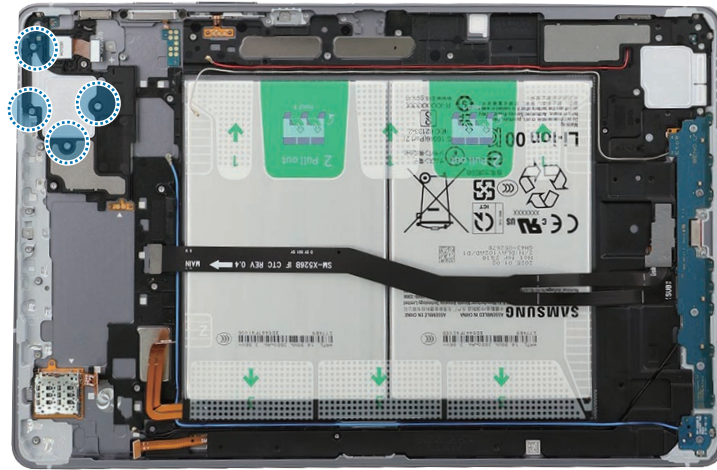
 Be careful not to damage the near components.





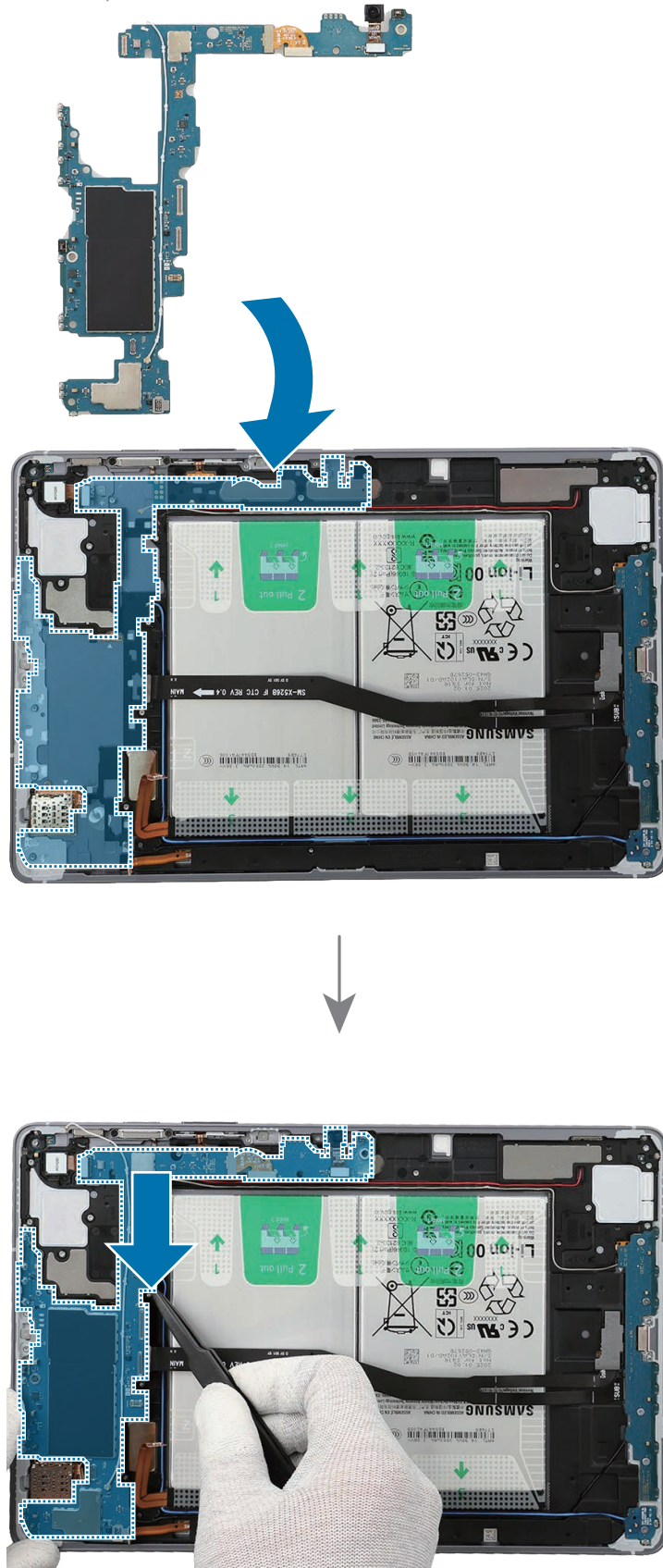
- 2 Check the screws 3570 (4 ea) at the different points and fasten them to the speaker using a cross-head screwdriver.

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

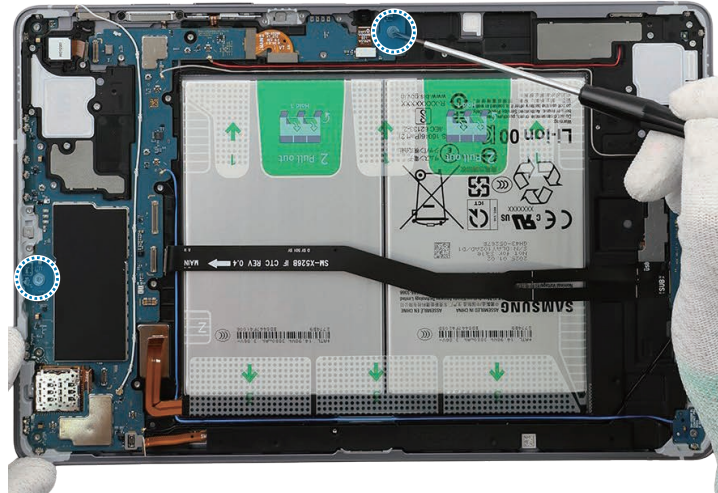


- 3 Using the tweezers, place the main board and the VT board to the exact position and assemble it to the back cover module. Press down on it in its position smoothly.

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



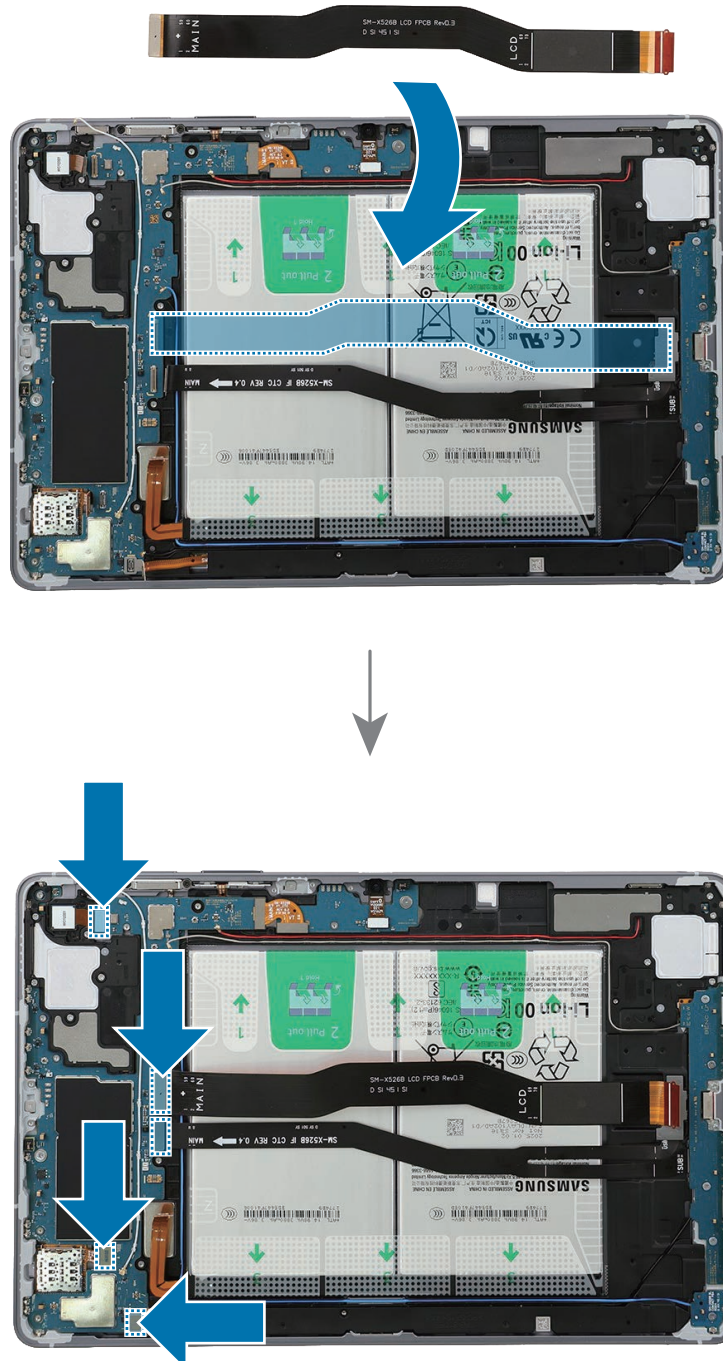
- 4 Check the screw 3521 (2 ea) at the different points and fasten them to the main board and VT board using a cross-head screwdriver.
- ⚠ Be careful not to damage the near components.



5 Place the screen flex cable to the back cover module and connect the 5 connectors carefully.



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



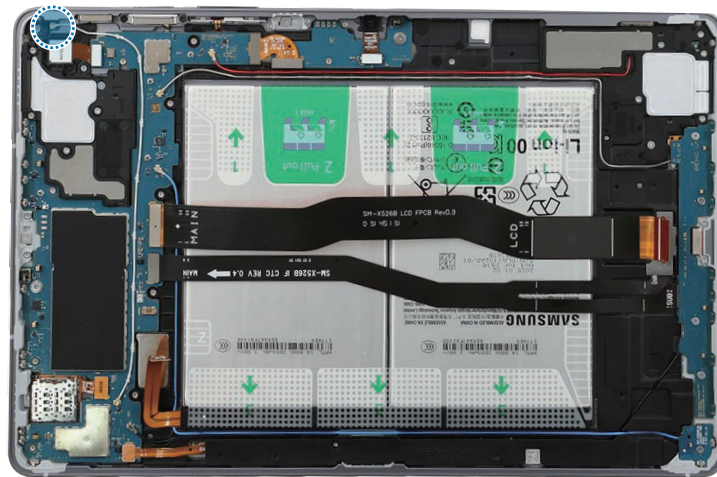
- 6 Using the tweezers, connect the coaxial cable connector (White) to the main board. In case of the coaxial cable (White), assemble it to the exact position over the rear camera module. For the 5G or LTE devices, connect the 4 coaxial cable connectors (Red/Blue/Grey/Black) additionally.



- Be careful not to damage the cable while connecting the connector.
- Be careful not to damage the near components.



- The 4 coaxial cables (Red/Blue/Grey/Black) are only available for the 5G or LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.

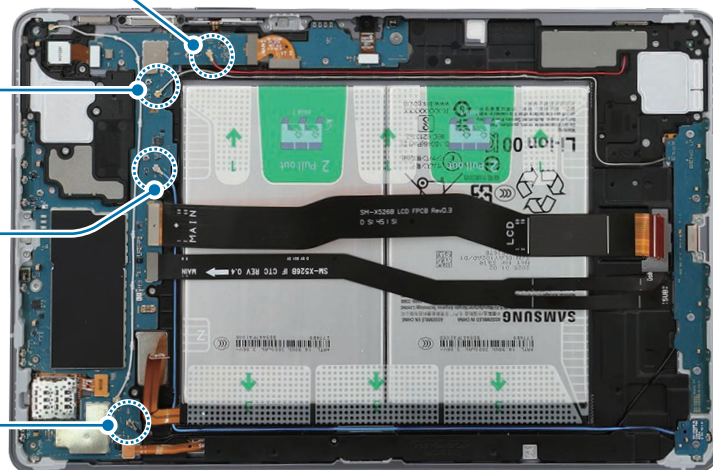


Coaxial cable
(Red)

Coaxial cable
(Grey)

Coaxial cable
(Blue)

Coaxial cable
(Black)



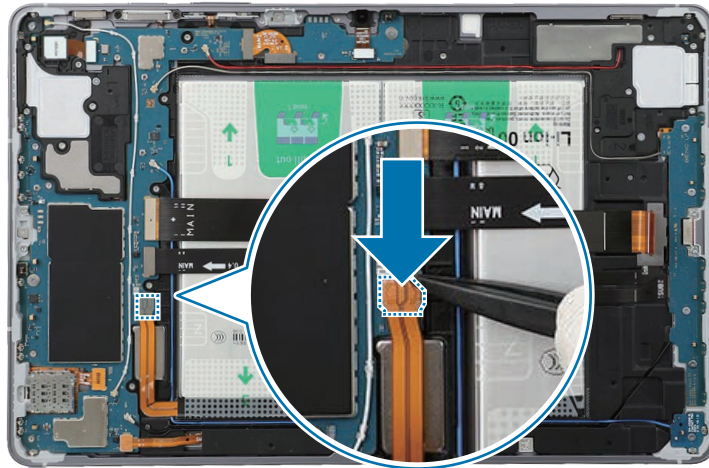
7 Connect the battery connector to the main board.



Be careful not to damage the battery.



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



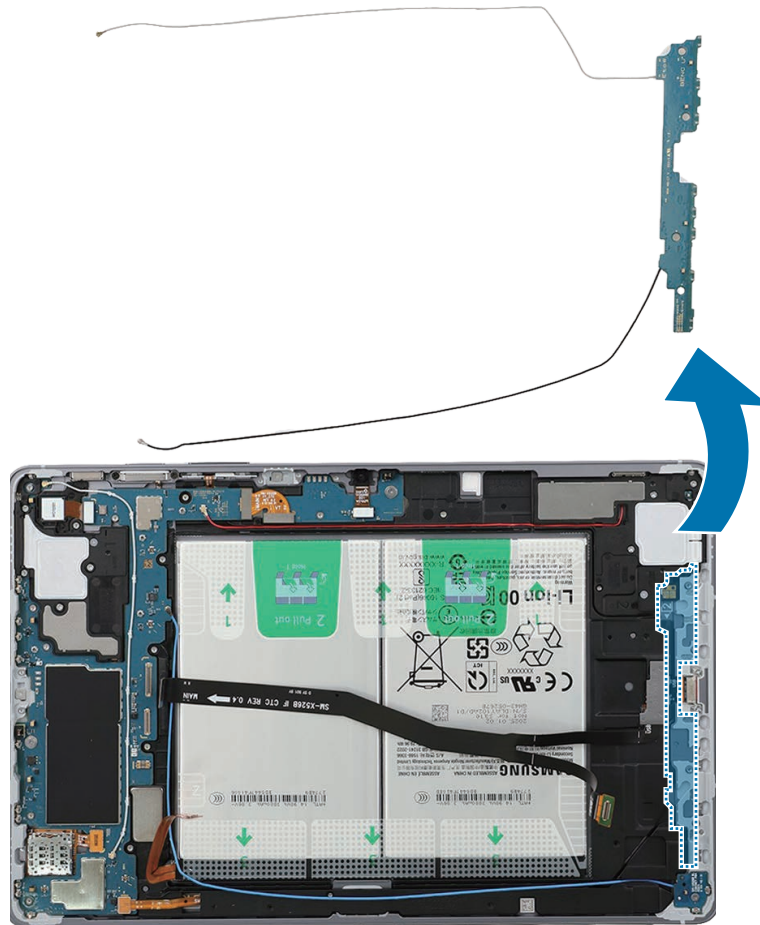
Reassemble the **Bracket** and **Screen** to complete assembly.

Speaker 2

Disassembly

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

- 1 Check for the disassembly steps of the [Charging Port](#) and completely separate the sub PBA.



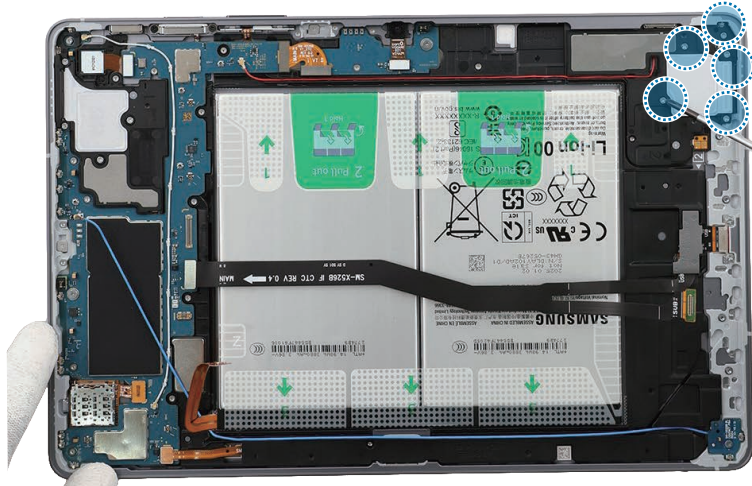
2 Check the 5 screws on the speaker module and remove them using a cross-head screwdriver.



Be careful not to damage the near components.



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



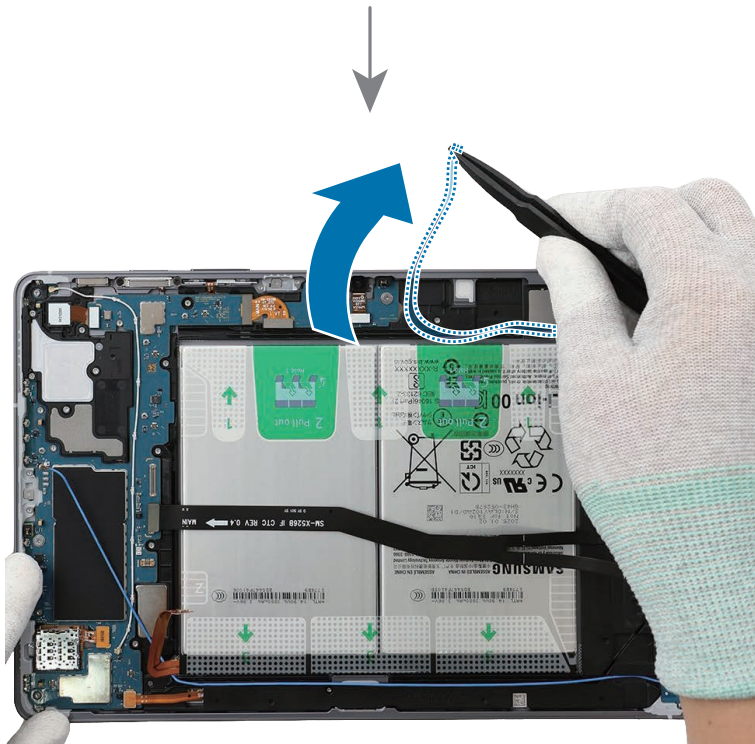
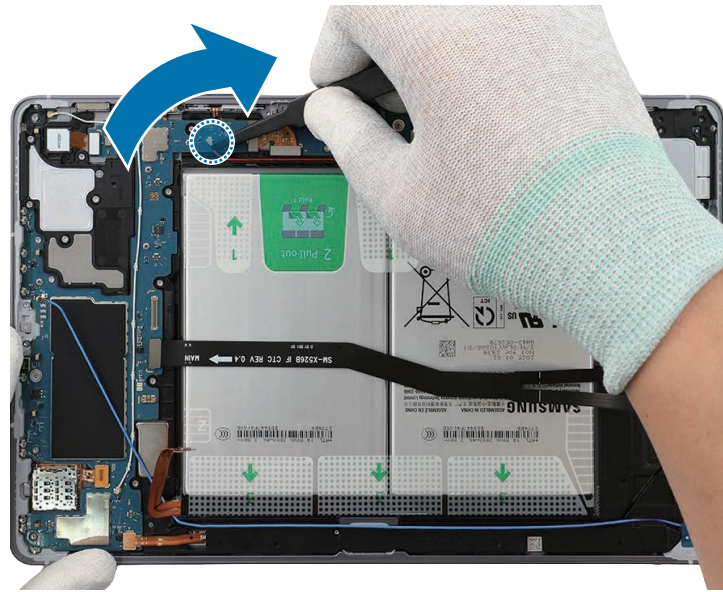
3 For the 5G or LTE devices, separate the coaxial cable connector (Red) from the main board and lift up and separate the coaxial cable (Red) from the back cover module. Using the tweezers, separate the FPCB of speaker module carefully. Using the tweezers, lift up on the separator groove of the speaker module and separate it from the back cover module.

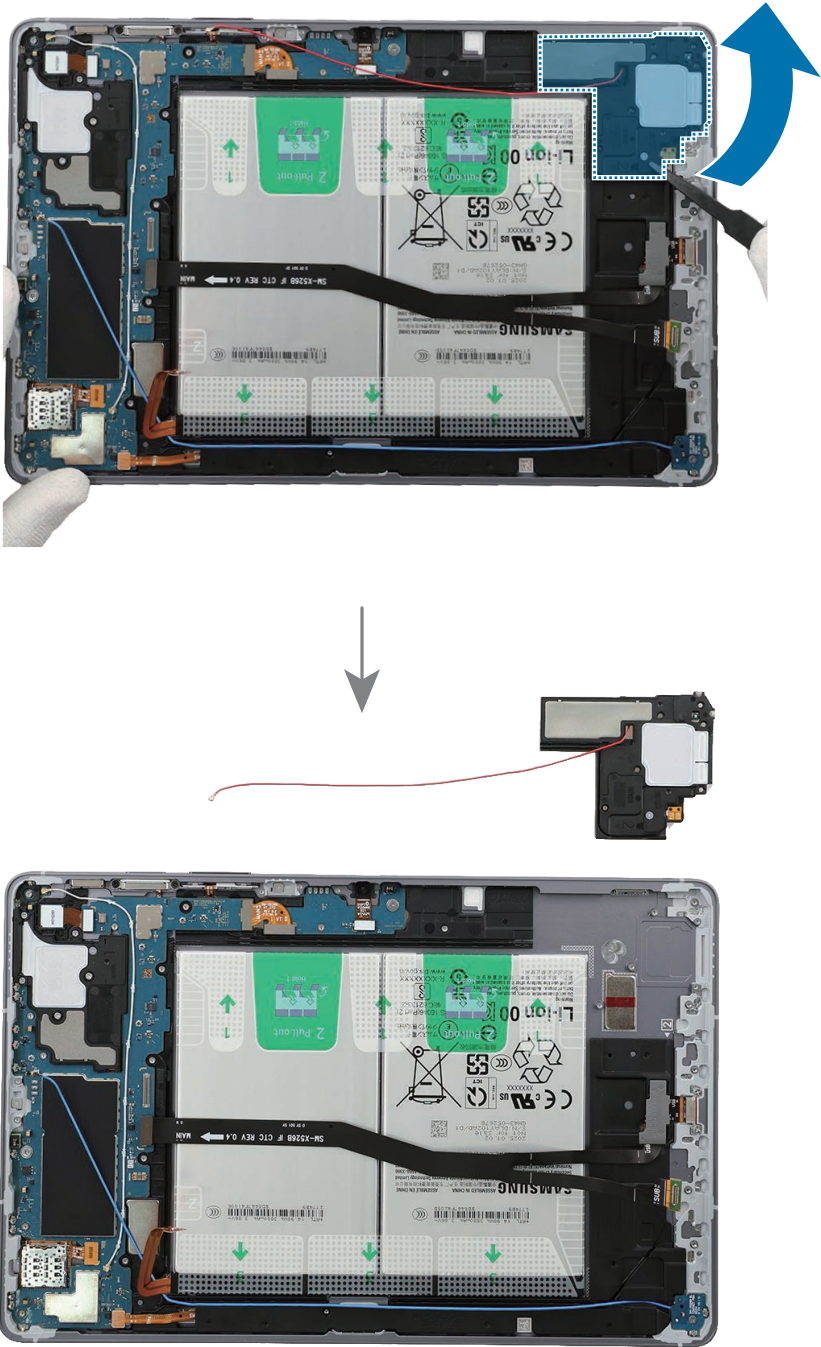


- Be careful not to damage the cable while removing the connector.
- Be careful not to damage the near components.



- The coaxial cable (Red) is only available for the 5G or LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.

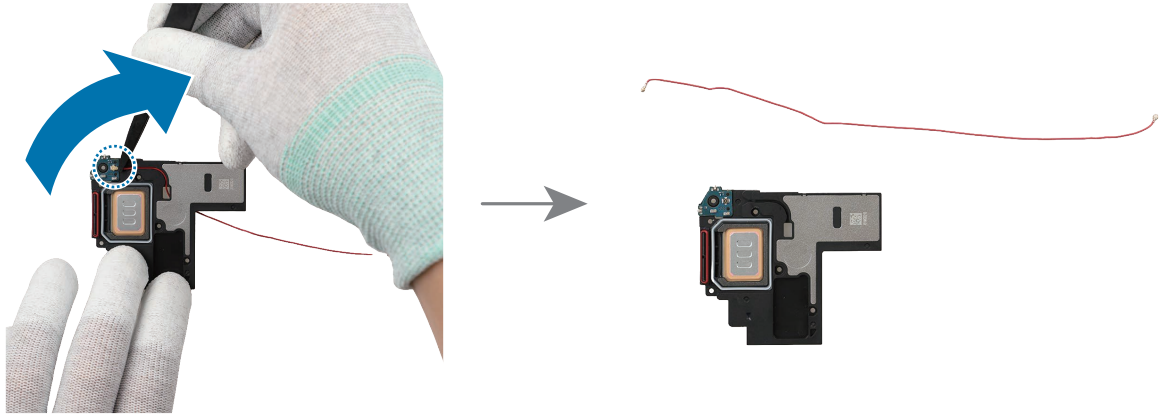




4 For the 5G or LTE devices, remove the coaxial cable (Red) completely from the speaker with the tweezers.

⚠ Be careful not to damage the speaker and cable.

- ✓ • The coaxial cable (Red) is only available for the 5G or LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



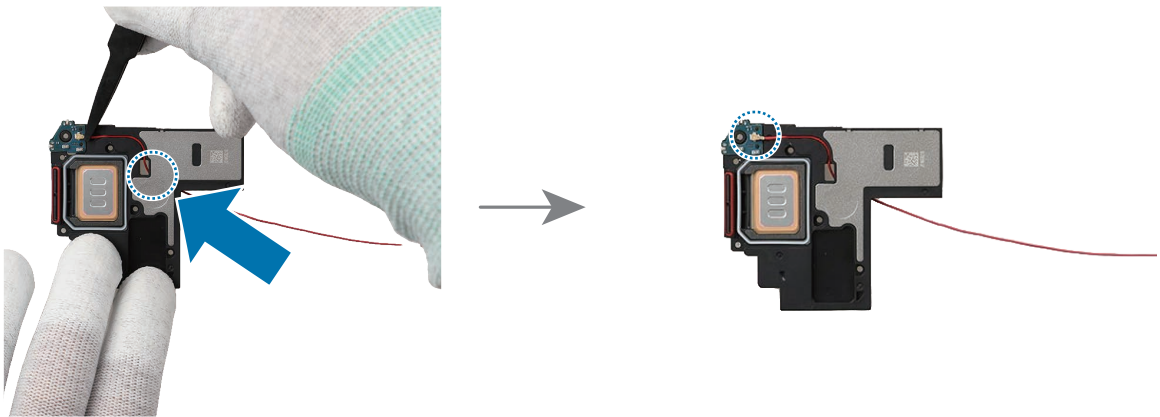
Reassembly

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

1 For the 5G or LTE devices, assemble the separated coaxial cable (Red) to the new speaker module carefully with the tweezers or your fingers.

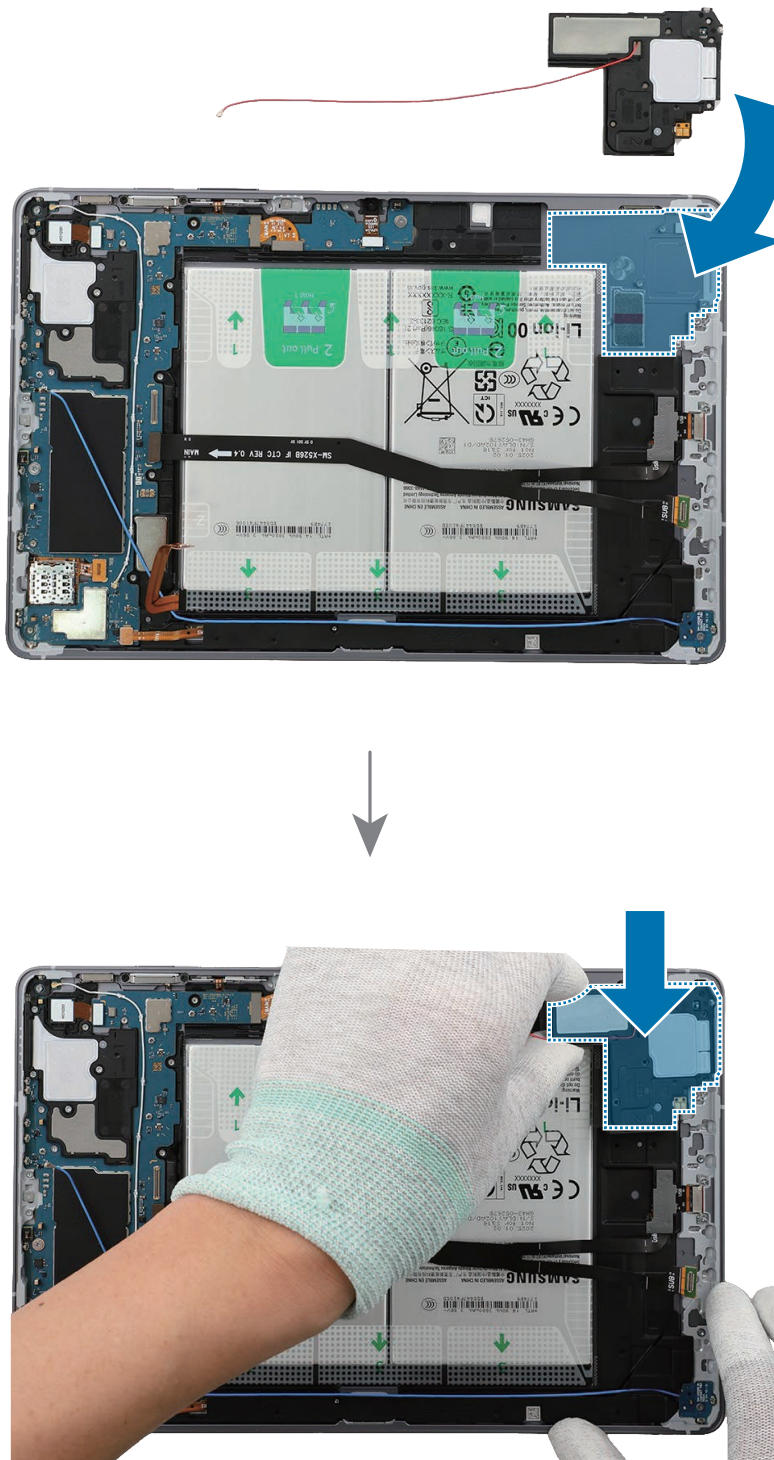
 Be careful not to damage the speaker and cable.

- 
- The coaxial cable (Red) is only available for the 5G or LTE devices.
 - The cables and connectors may vary depending on the country, region, or specifications.



- 2 Using the tweezers, remove all release films of the new speaker module. Place the speaker module to the exact position, and assemble it to the back cover module.

⚠ Be careful not to damage the near components.





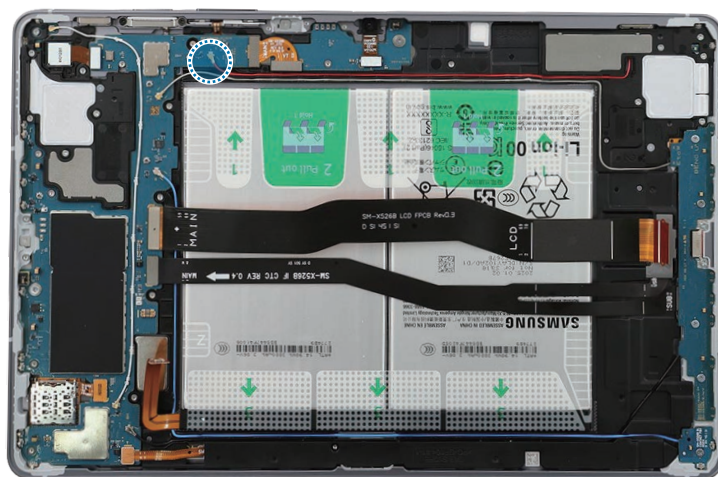
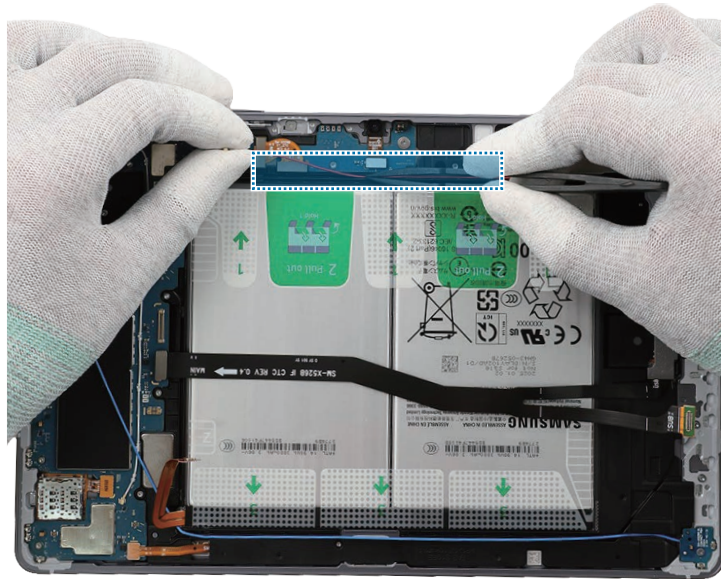
3 For the 5G or LTE devices, carefully connect the coaxial cable (Red) to the back cover module and connect the coaxial cable connector (Red) to the main board.



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

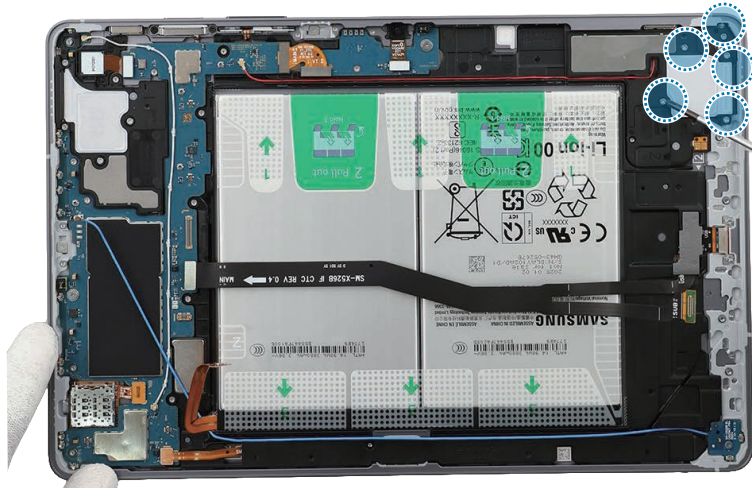


- The coaxial cable (Red) is only available for the 5G or LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



- 4 Check the screw 3570 (5 ea) at the different points and fasten them on the speaker using a cross-head screwdriver.

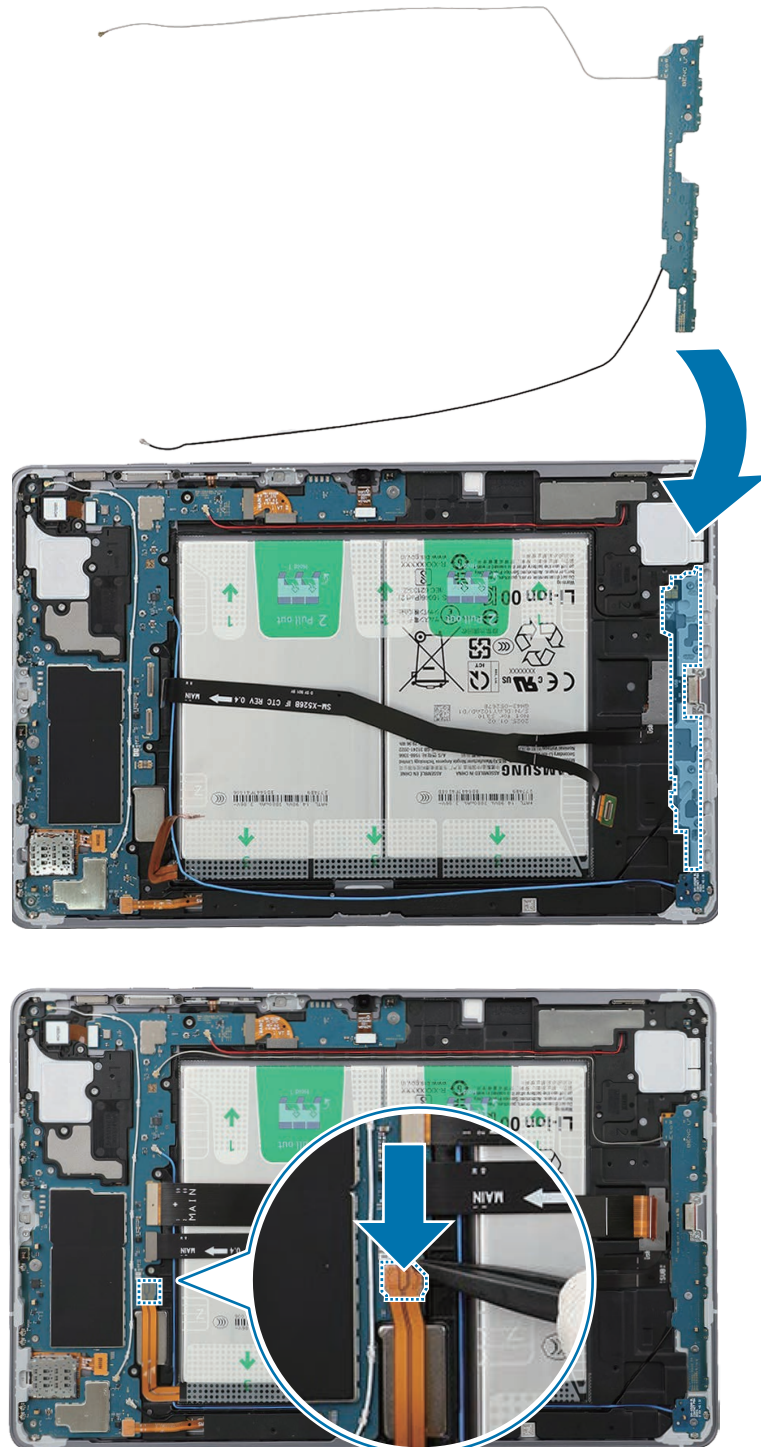
⚠ Be careful not to damage the speaker and near components.



- 5 Check for the reassembly steps of the [Charging Port](#) and completely reassemble the sub PBA and connect the battery connector.

 Be careful not to damage the battery.

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



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

Side Button (Fingerprint Recognition Sensor)



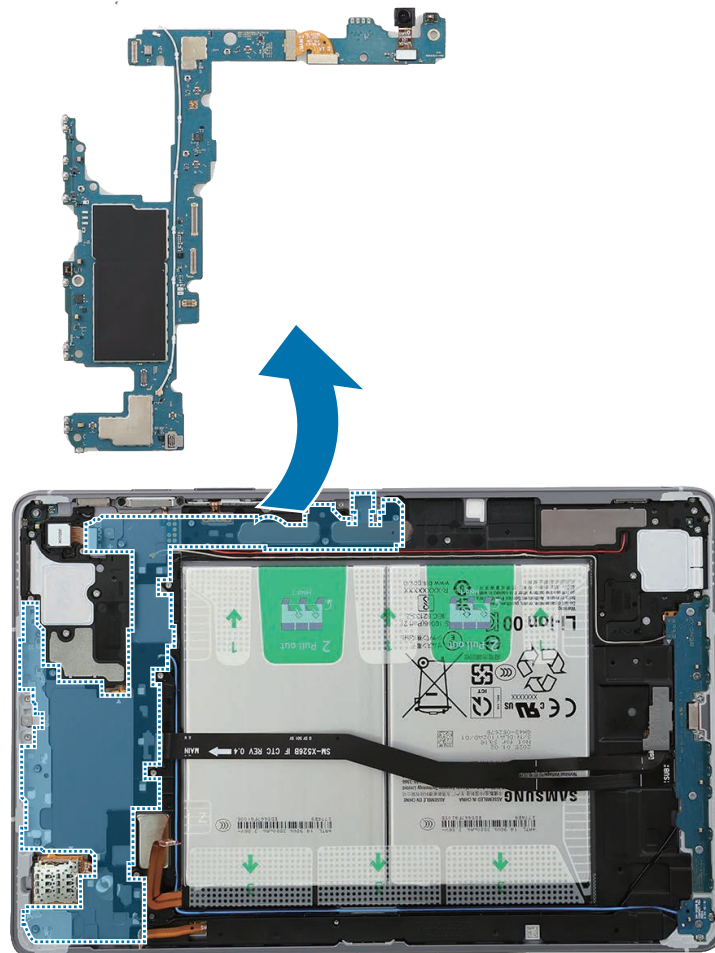
- The buttons are already built into the back cover module. Disassemble the buttons only if the buttons themselves require repairs.
- The Side button has a built-in fingerprint recognition sensor. It cannot be removed directly from the outside.

Disassembly



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

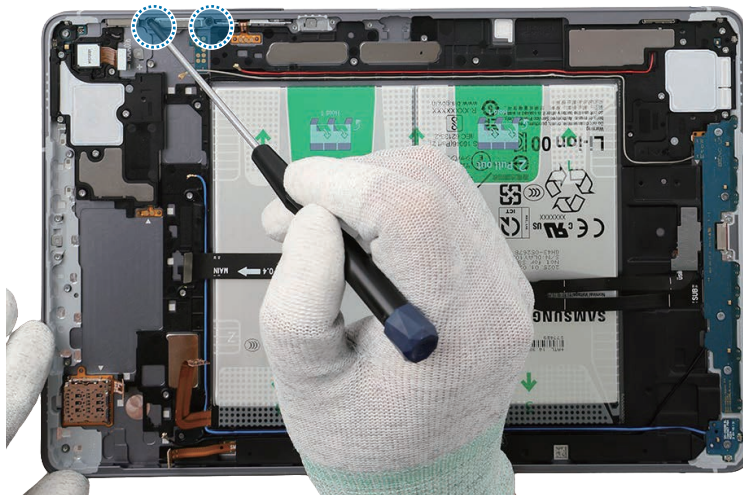
- 1 Check for the disassembly steps of the [Speaker1](#) and completely separate the main board and VT board.



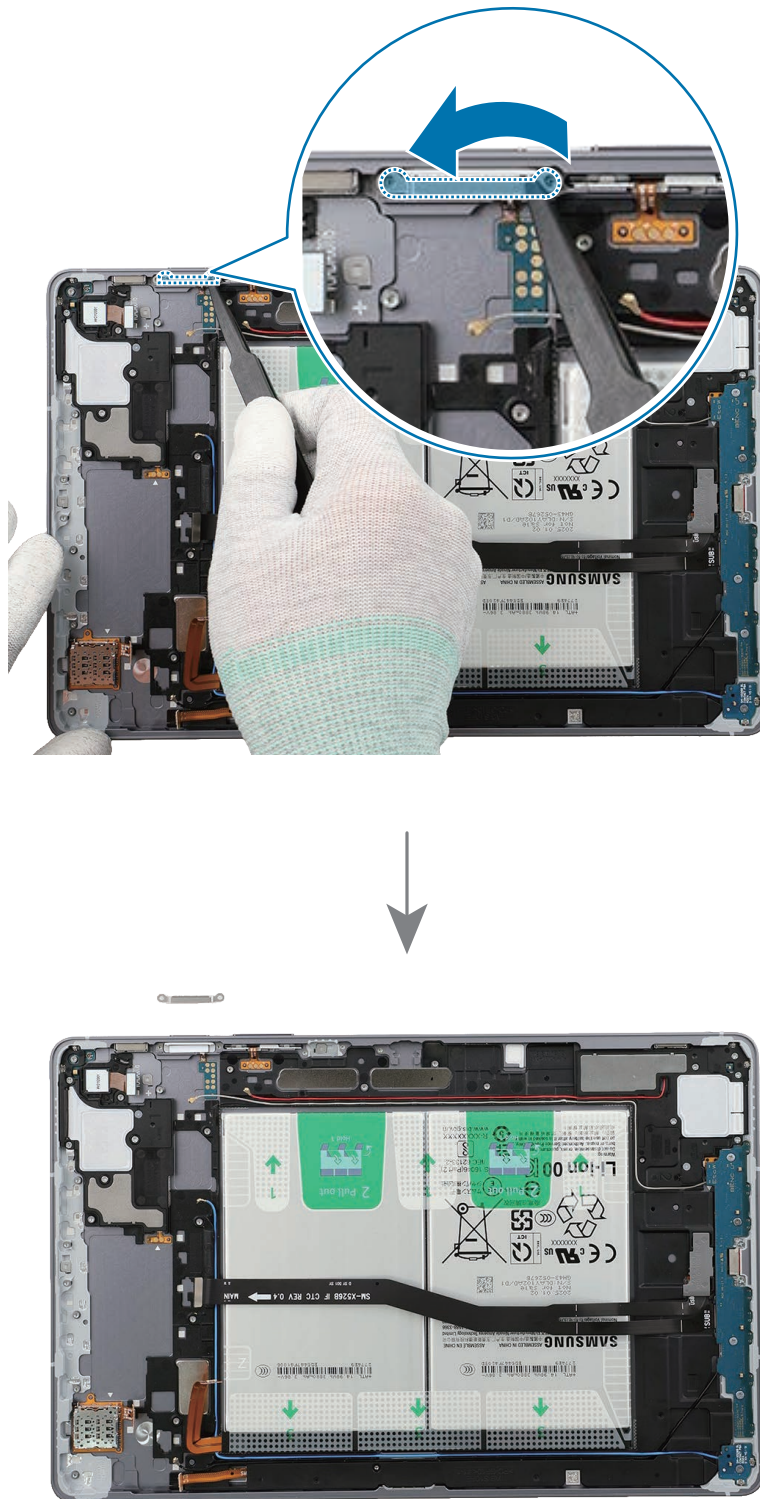
2 Check the screws at the 2 different points on the metal bracket and remove them using a cross-head screwdriver.

⚠ Be careful not to damage the near components.

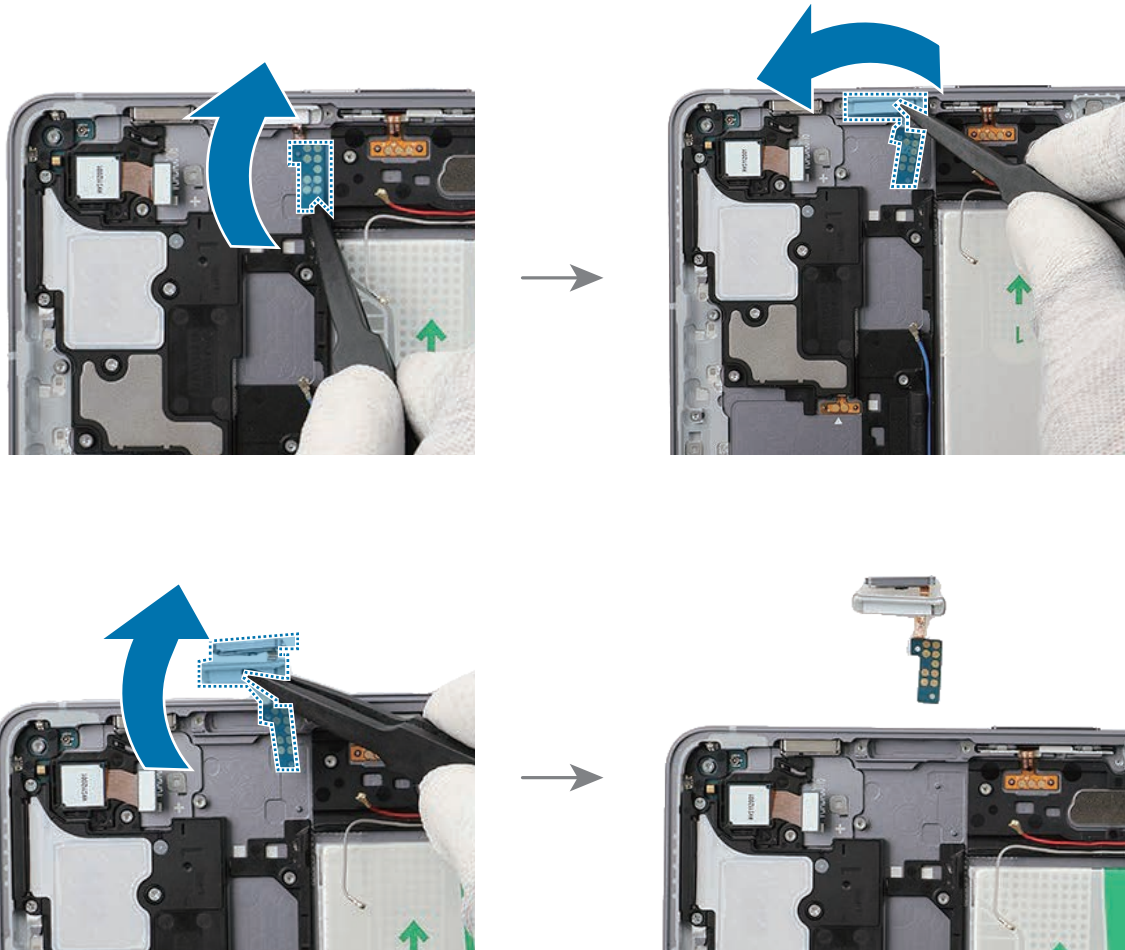
✓ Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



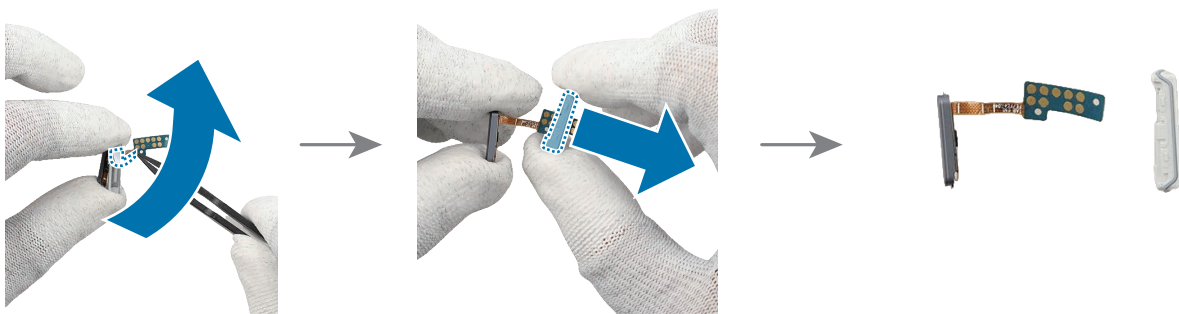
- 3 Using the tweezers, remove the metal bracket from the back cover module.



- 4 Using the tweezers, separate the FPCB of Side button module (fingerprint recognition sensor) carefully. Using the tweezers, remove the plastic bracket from the back cover module. The Side button module (fingerprint recognition sensor) is removed together with the bracket.



- 5 Using the tweezers, remove the water-resistant tape from the plastic bracket and then remove the plastic bracket from the Side button module (fingerprint recognition sensor).

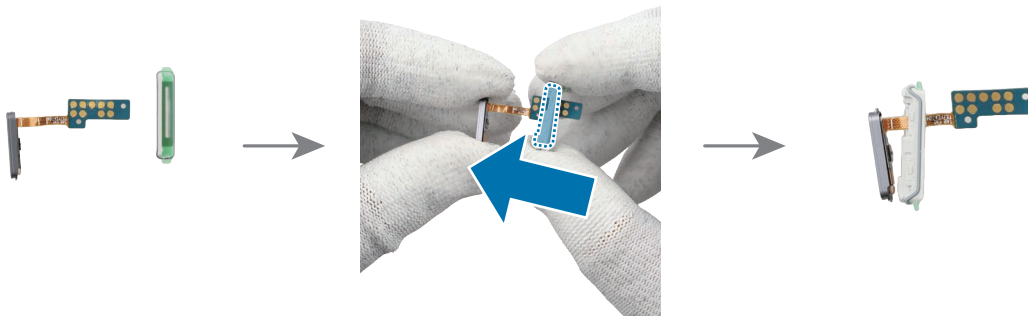


Reassembly

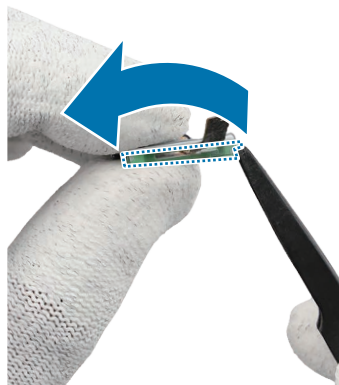
 Leaving screws inside the device may damage internal components, such as the battery. During assembly, be extra careful not to leave any unassembled screws inside the device.

1 Using the tweezers, remove the release film of the new Side button module. Combine the new plastic bracket with the Side button module carefully.

-  Be careful not to damage the Side button module and the bracket.
- Be careful not to put the bracket in the wrong direction.

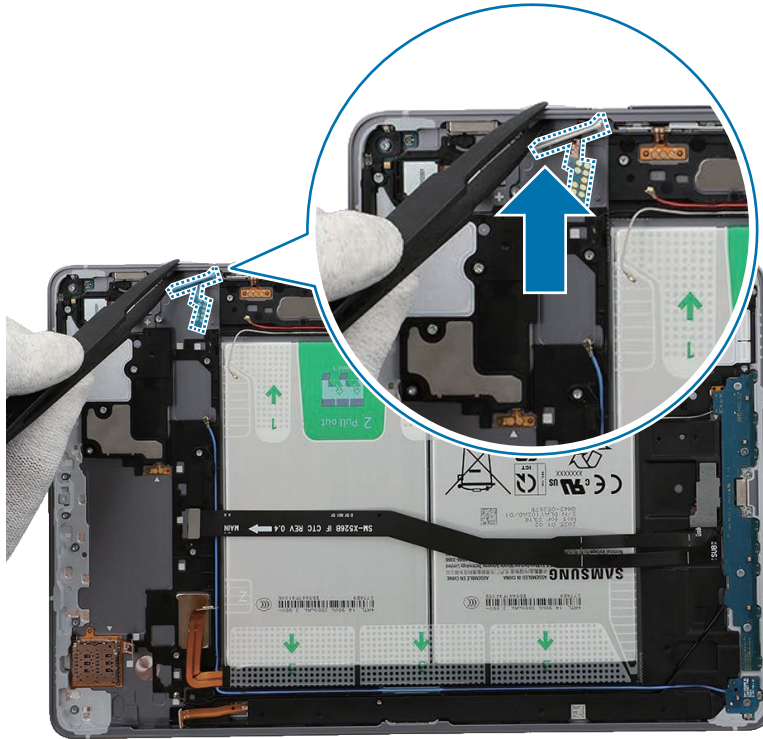


2 Using the tweezers, remove the release film of the plastic bracket.

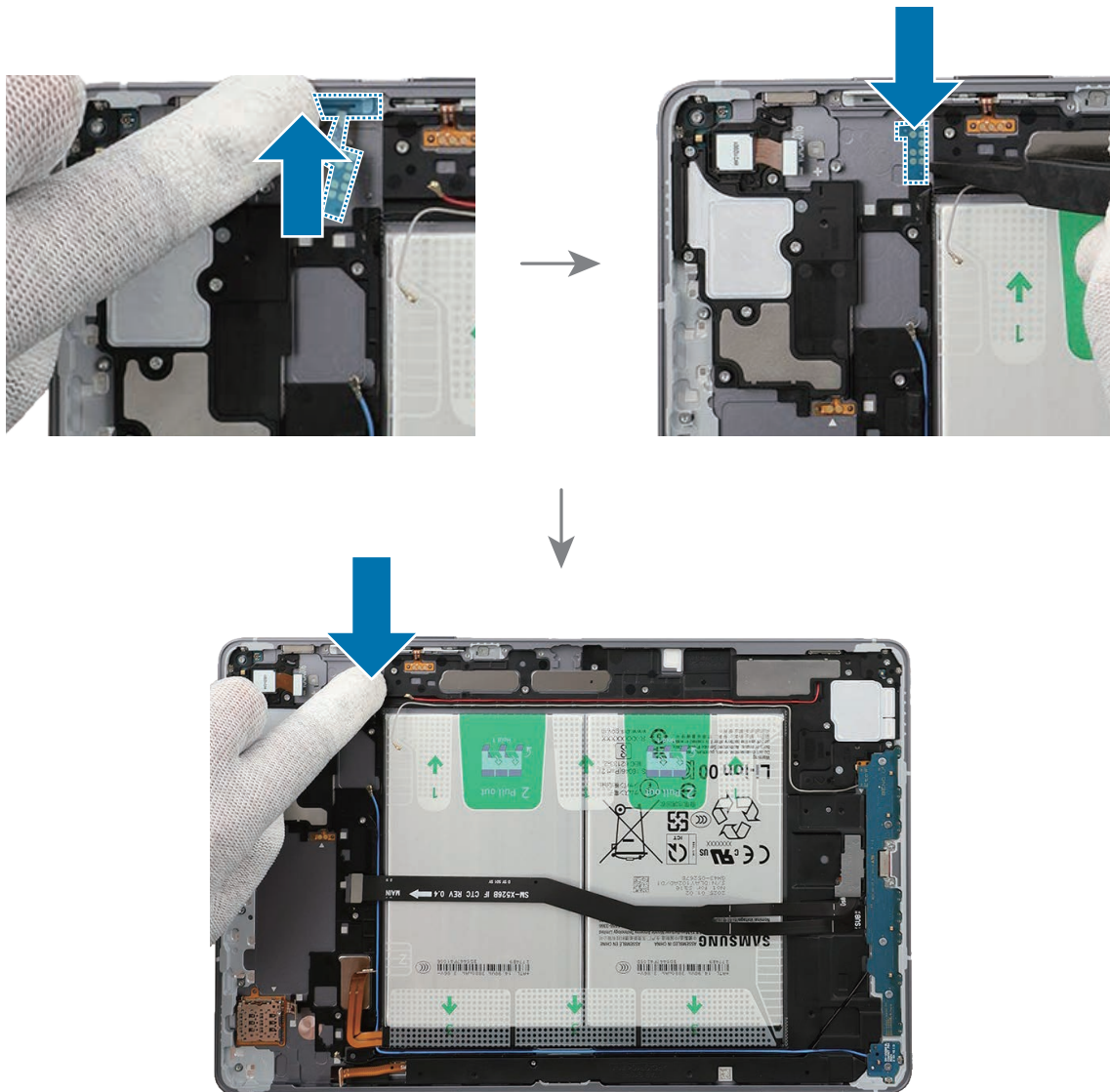


- 3 Using the tweezers or your fingers, grab the Side button module and insert it into the slot carefully. Gently press down softly the Side button module with the tweezers.

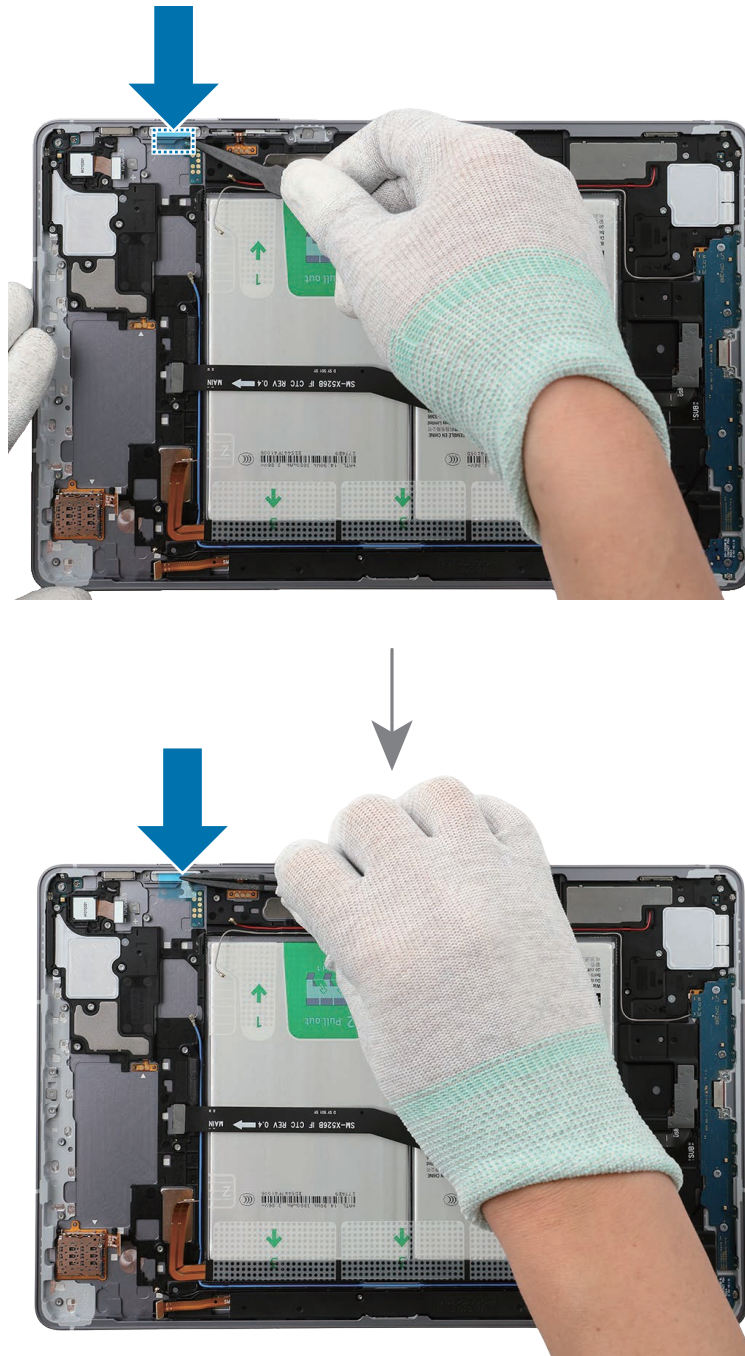
⚠ Be careful not to put the bracket in the wrong direction.



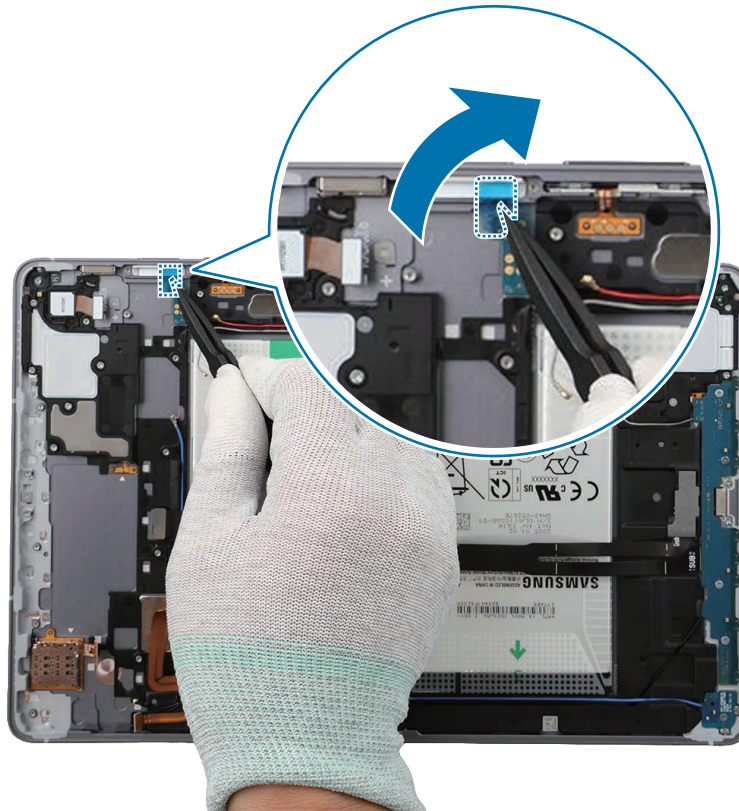
- 4 Gently press down the plastic bracket and assemble it completely to the back cover module. Align the Side button FPCB precisely to its position of the back cover module and attach it. Gently press down the FPCB to ensure a secure fit.



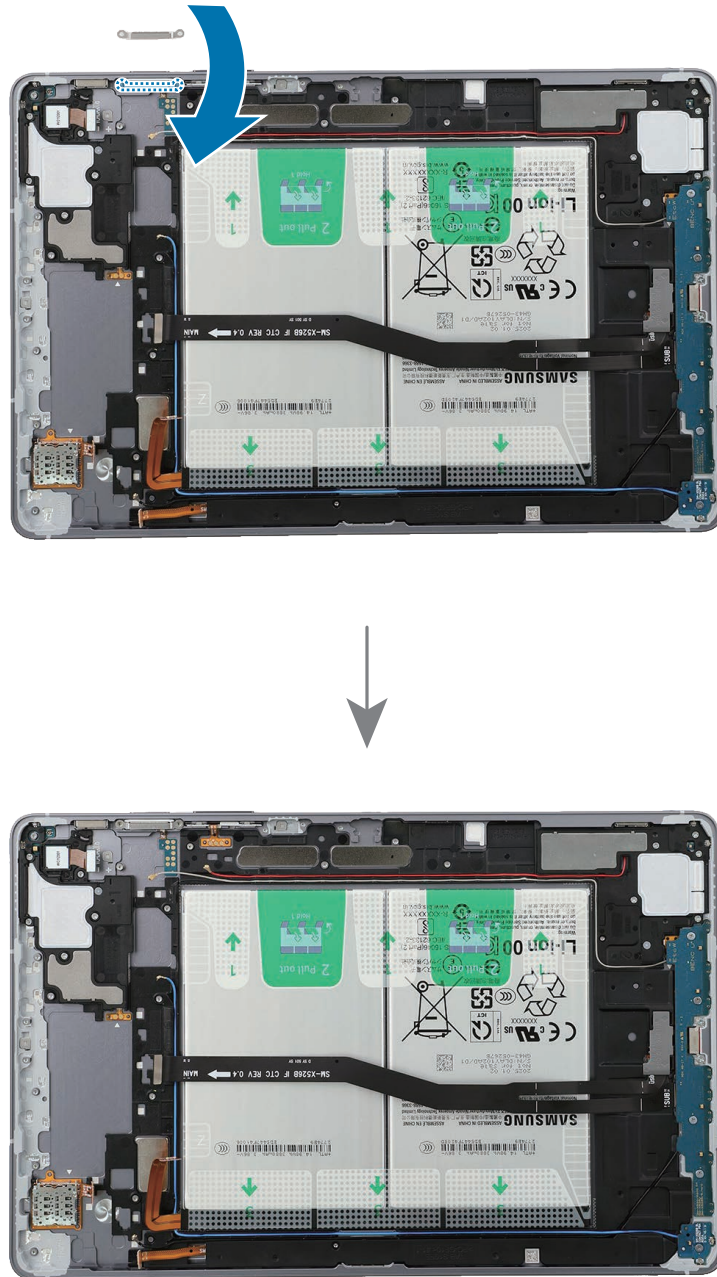
- 5 Using the tweezers, align the new Side button water-resistant tape precisely on the bracket and attach it. Then, gently press down softly with the tweezers.



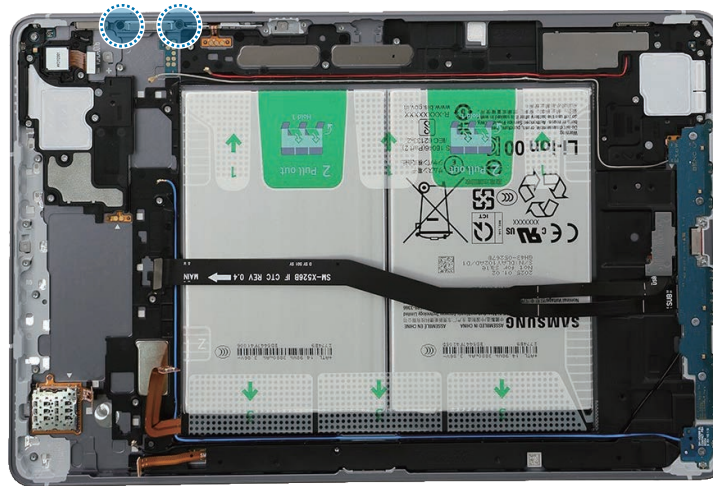
- 6 Remove the blue release film of the tape.



- 7 Using the tweezers, assemble the metal bracket on the back cover module.



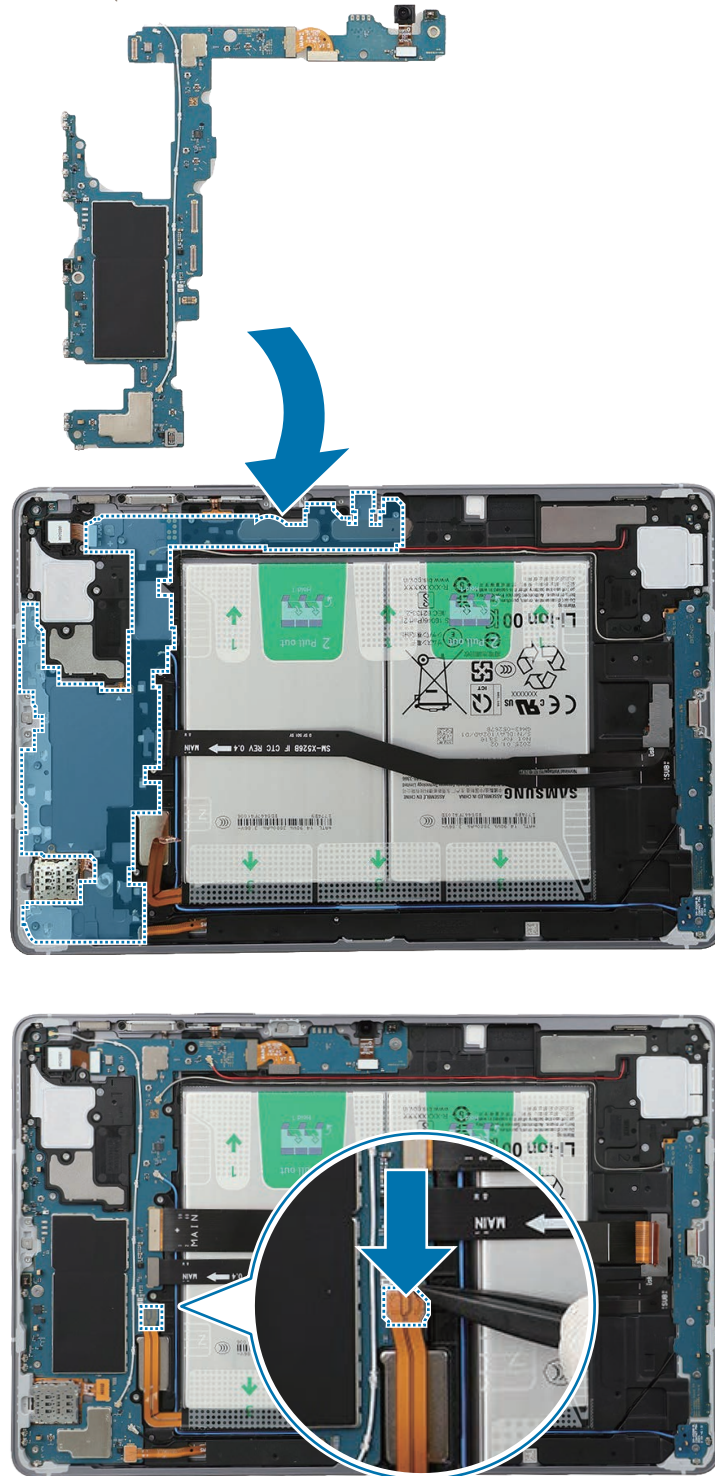
- 8 Check the screw 3520 (2 ea) at the 2 different points on the metal bracket and fasten them using a cross-head screwdriver.



- 9 Check for the reassembly steps of the [Speaker1](#) and completely reassemble main board and VT board and connect the battery connector.

 Be careful not to damage the battery.

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



Reassemble the **Bracket** and **Screen** to complete assembly.

Volume Button



The buttons are already built into the back cover module. Disassemble the buttons only if the buttons themselves require repairs.

Disassembly

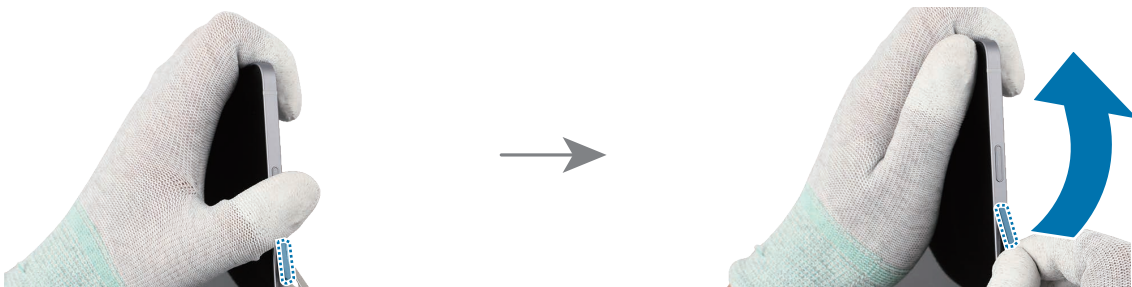
To remove the Volume button, lightly press one end of the button with your fingers so that the other end protrudes. Push the tip of the protruding button up carefully with the round-tip metal tweezers and lift it up until you can grab it with your fingers. Grab the button with your fingers and pull it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



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



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

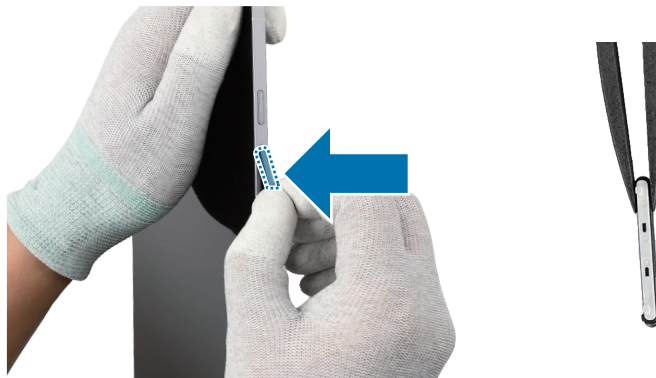


Reassembly

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

1 Remove the release film of a new Volume button. The protruding part of the Volume button is biased to one side, so be careful to insert the button in the right direction. Using your fingers, grab the Volume button and insert it on the slot carefully.

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



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



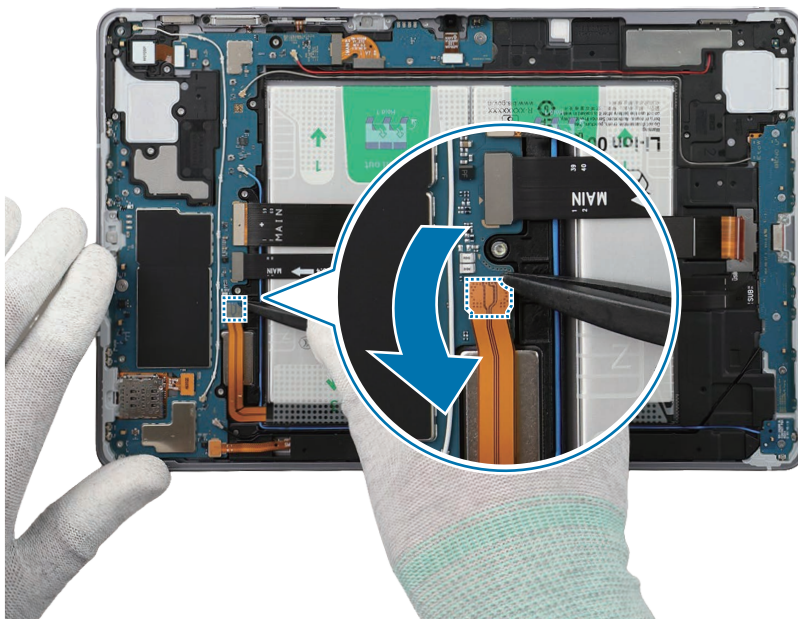
Back Cover Module

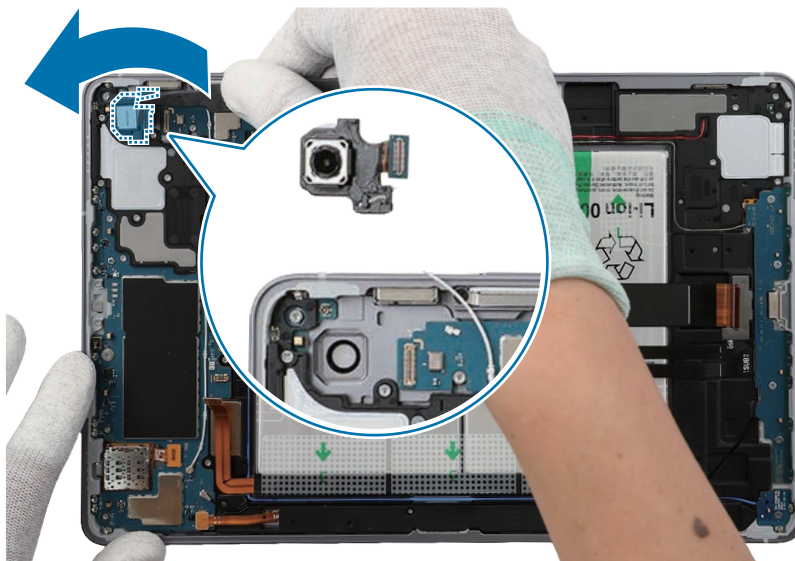
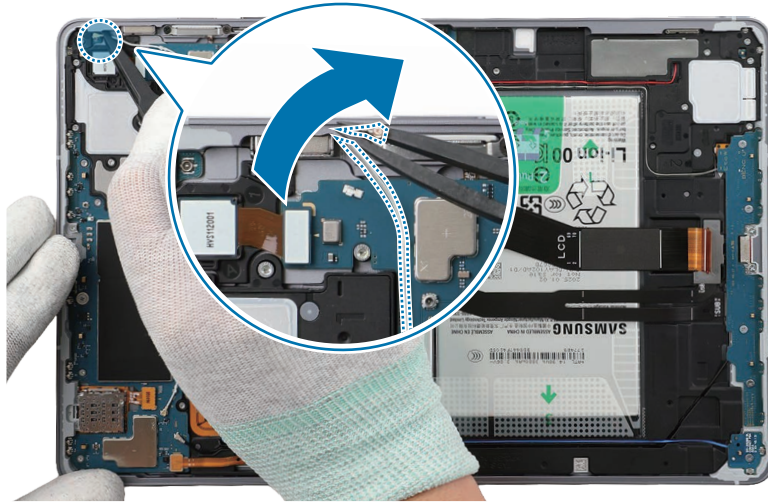
Disassembly

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

1 Using the tweezers, disconnect the battery connector from the main board first. Then, disconnect the coaxial cable connector (white) from the main board and lift the coaxial cable (white) up and separate it from the rear camera module. Using the tweezers, separate the rear camera connector from the main board and lift up on the separator groove of the rear camera and remove it. Leave the camera lens facing up.

-  • Make sure to first disconnect the battery connector for your own safety.
- Be careful not to damage the battery.
-  • Be careful not to damage the cable.
- Be careful not to damage the main board and near components.





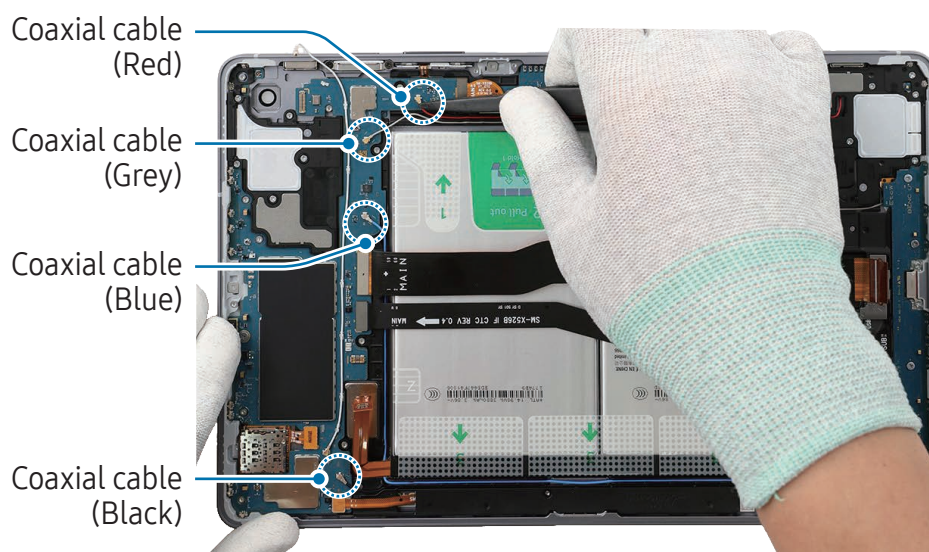
2 For the 5G or LTE devices, separate the 4 coaxial cable connectors (Red/Grey/Blue/Black). Using the tweezers, separate 4 connectors from the main board and remove the screen flex cable completely.

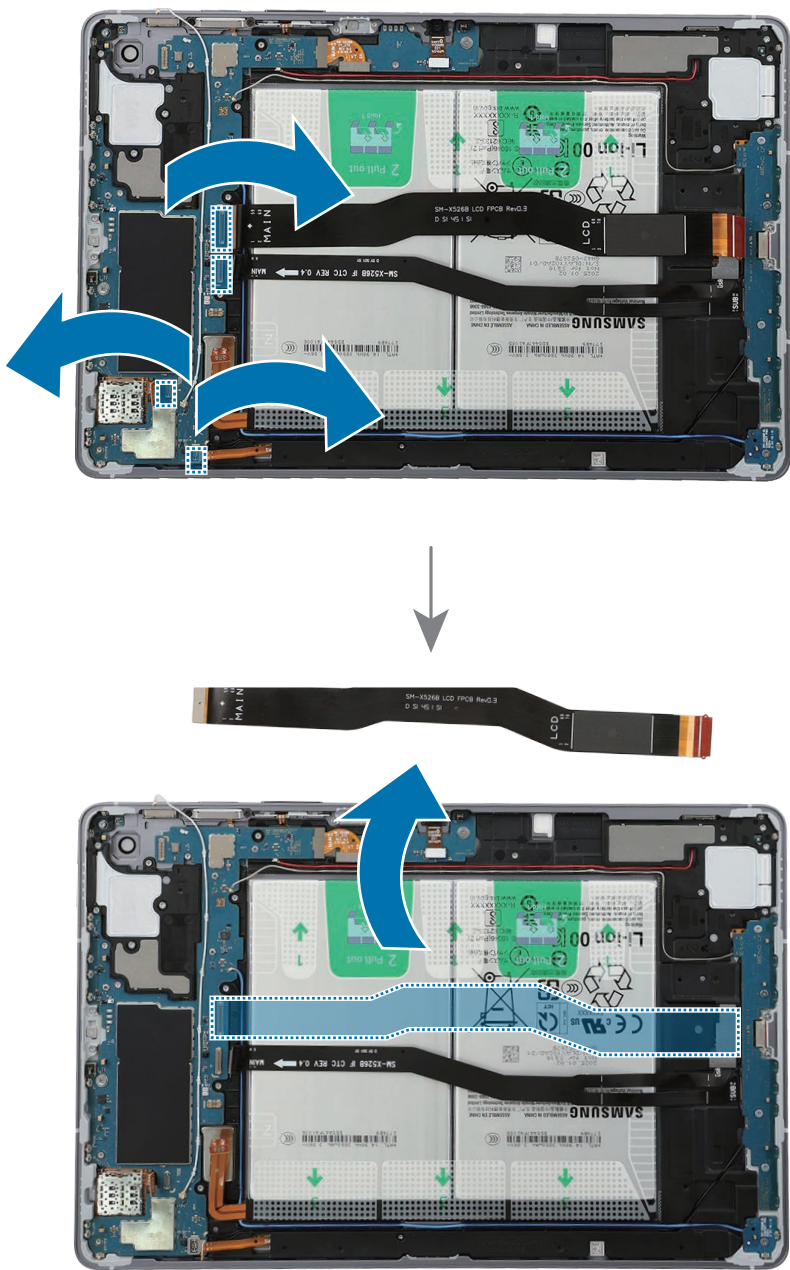


- Be careful not to damage the cable while removing the connector.
- Be careful not to damage the near components.



- The 4 coaxial cables (Red/Grey/Blue/Black) are only available for the 5G or LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.





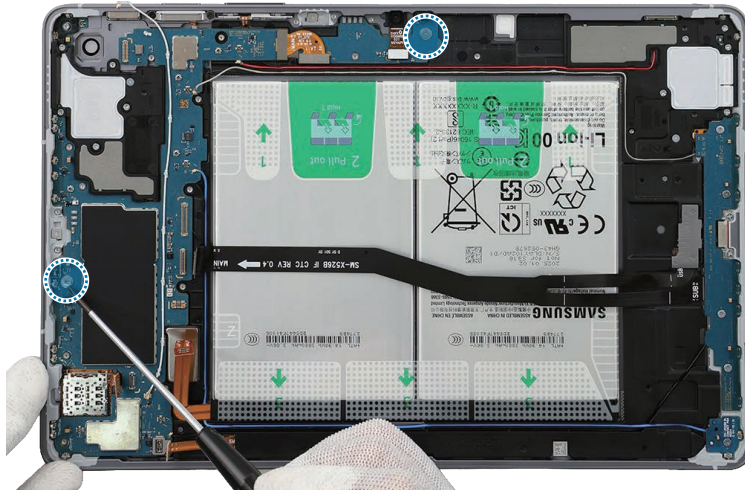
3 Check the screw on the main board and the screw on the VT board. Remove all 2 screws using a cross-head screwdriver.



Be careful not to damage the near components.



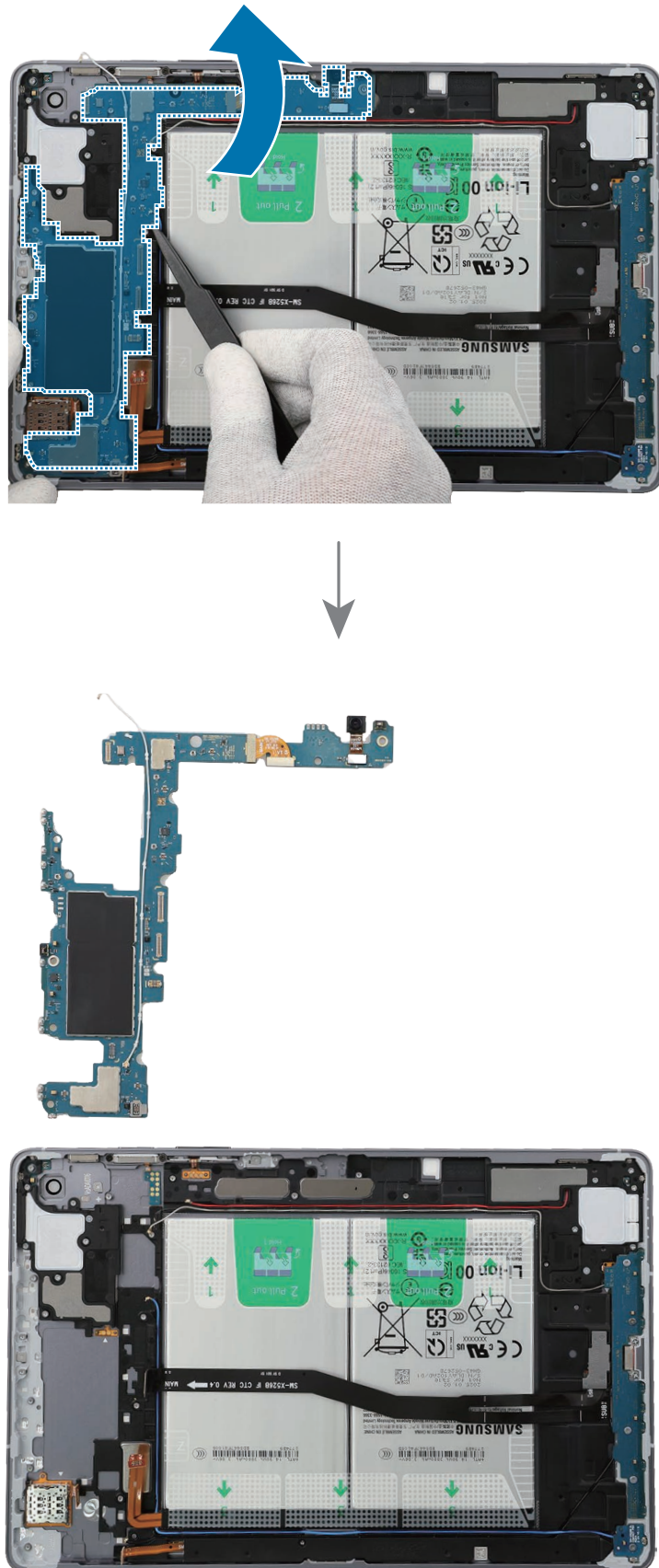
Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



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



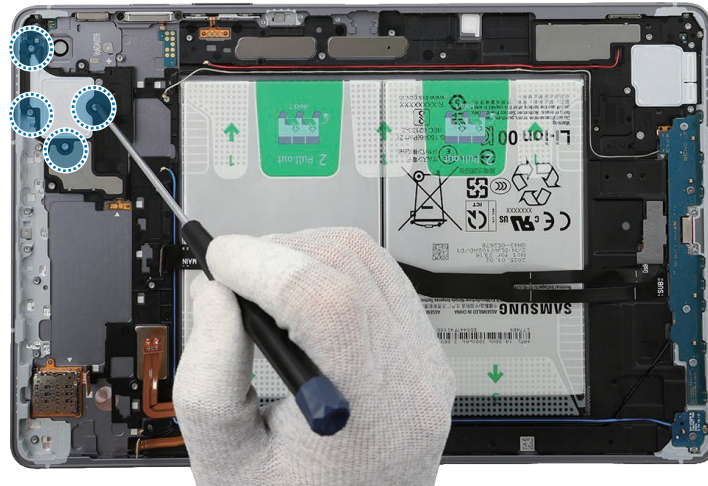
- Be careful not to damage the battery connector and the main board.
- The cables have to positioned outside so as not to interfere when disassembling the main board.



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

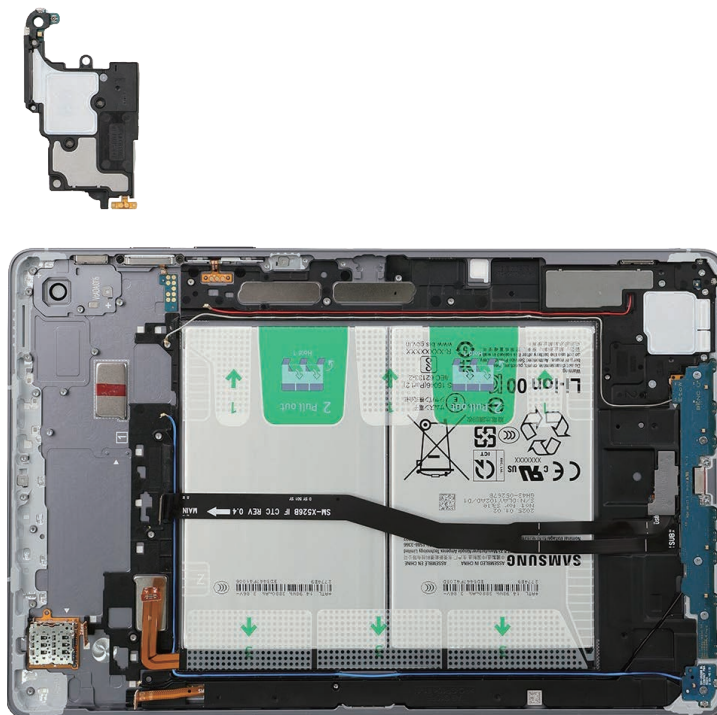
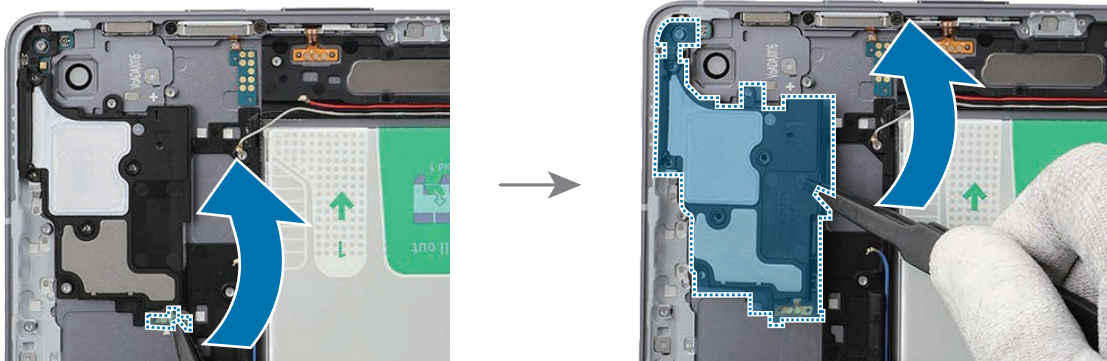
⚠ Be careful not to damage the speaker module and cables.

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



- 6 Using the tweezers, separate the FPCB of speaker module carefully. Lift up on the separator groove and remove it from the back cover module.

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



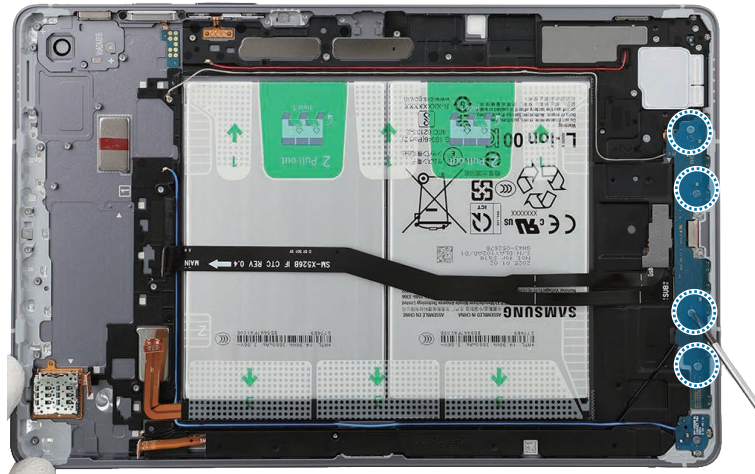
7 Check the screws at the 4 different points on the sub PBA and remove them using a cross-head screwdriver.



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



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



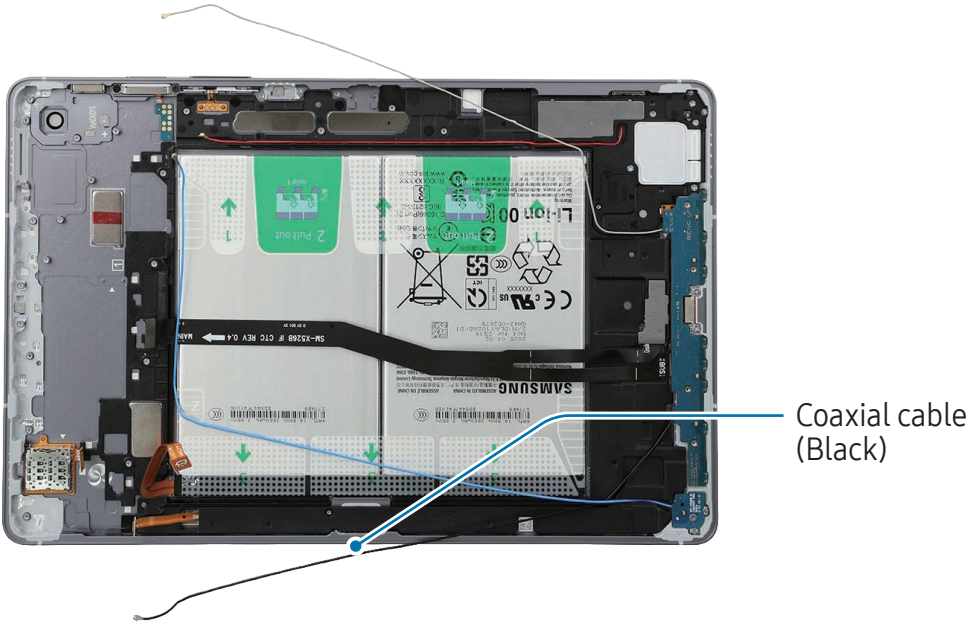
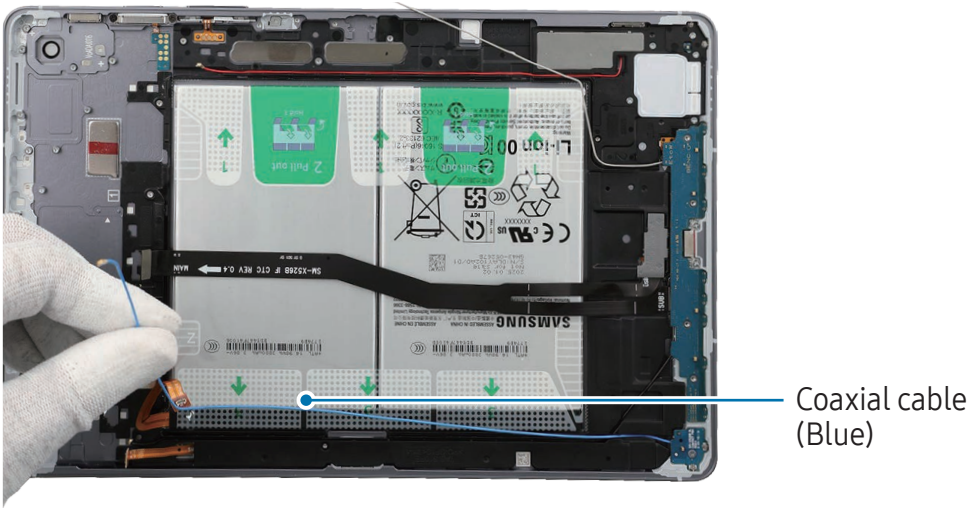
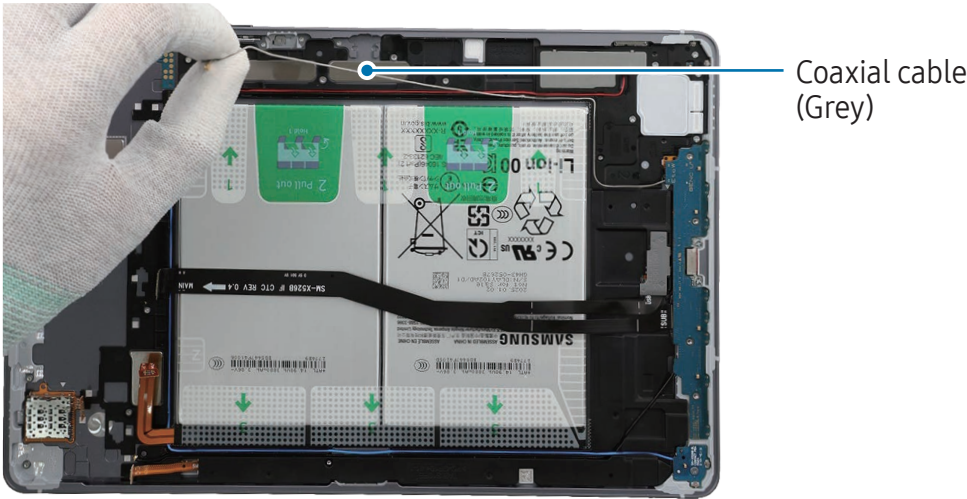
8 For the 5G or LTE devices, disconnect the 3 coaxial cables (Grey/Blue/Black) in the back cover module. Disconnect the sub PBA carefully from the back cover module. Before removing the sub PBA completely, using the tweezers separate the flex cable connector from the sub PBA and separate the sub PBA completely.



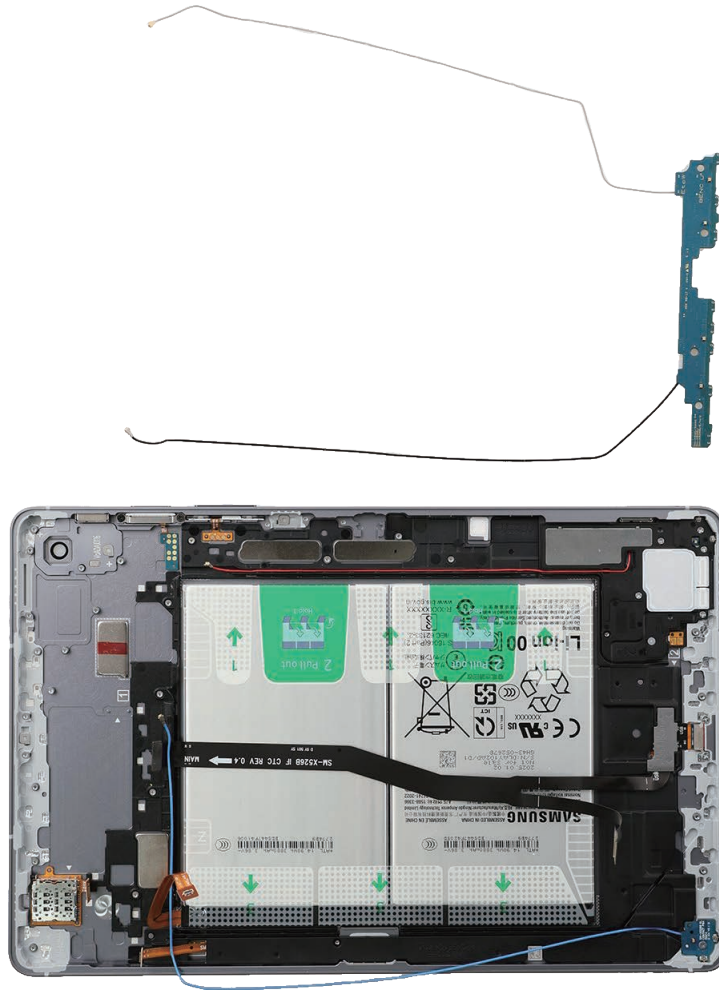
- Check the position of the overlapping cables and disconnect them in order from the top.
- Be careful not to damage the cables while removing the connector.
- Be careful not to damage the near components.



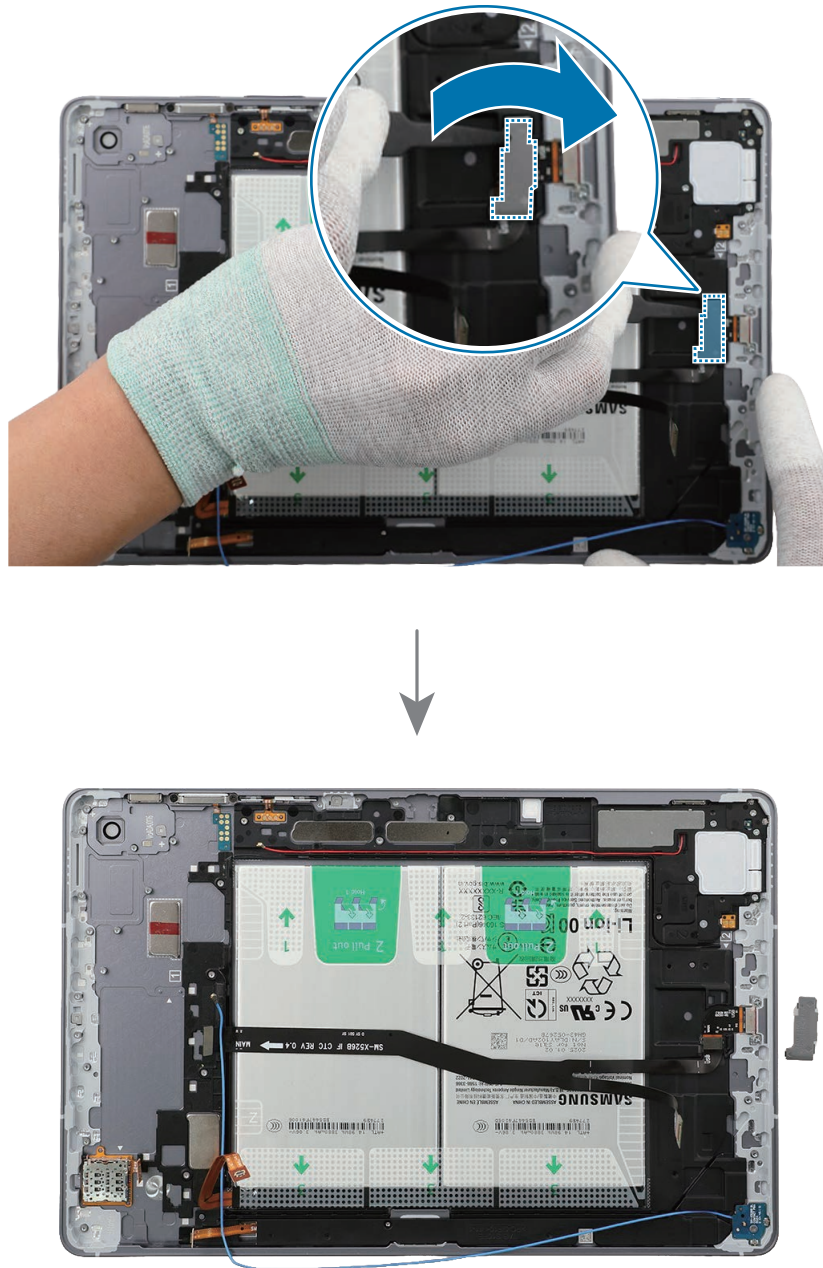
- The 3 coaxial cables (Grey/Blue/Black) are only available for the 5G or LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.





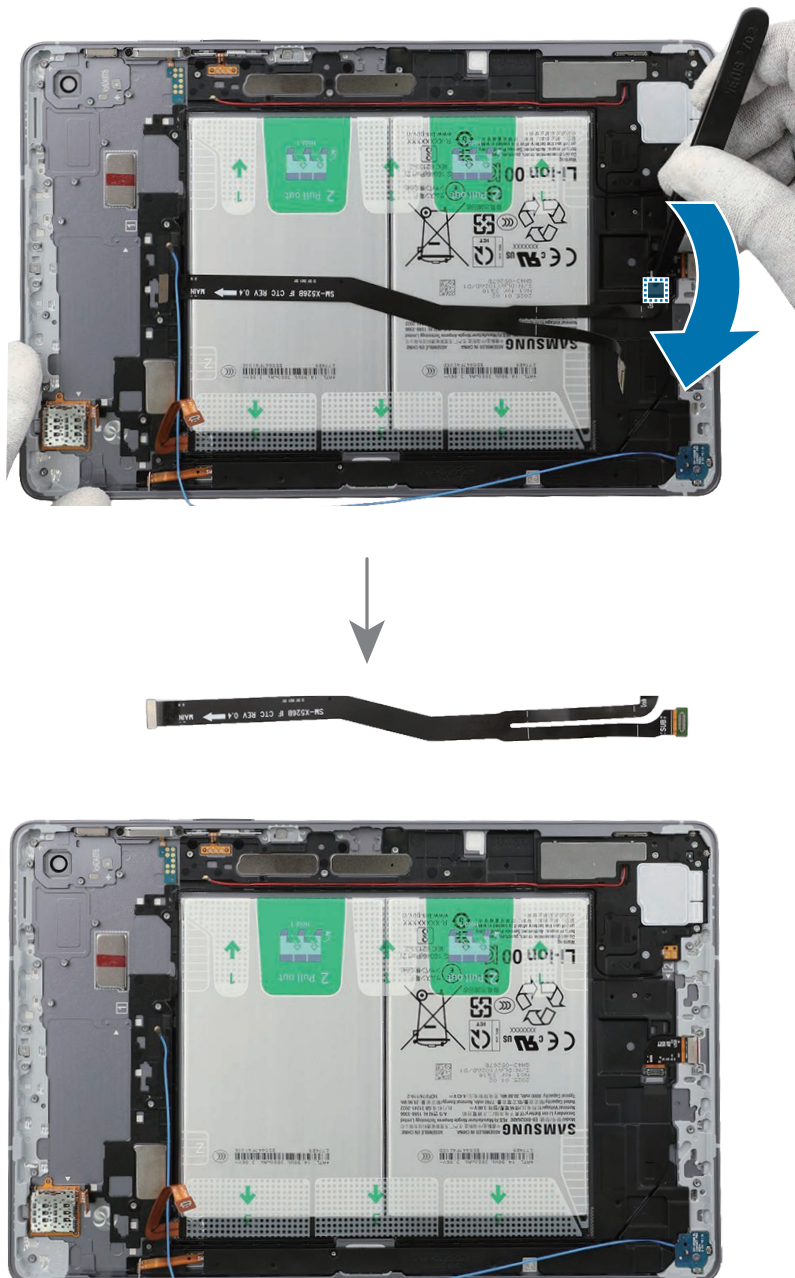


- 9 Using the tweezers, disassemble the flex cable connector cover.

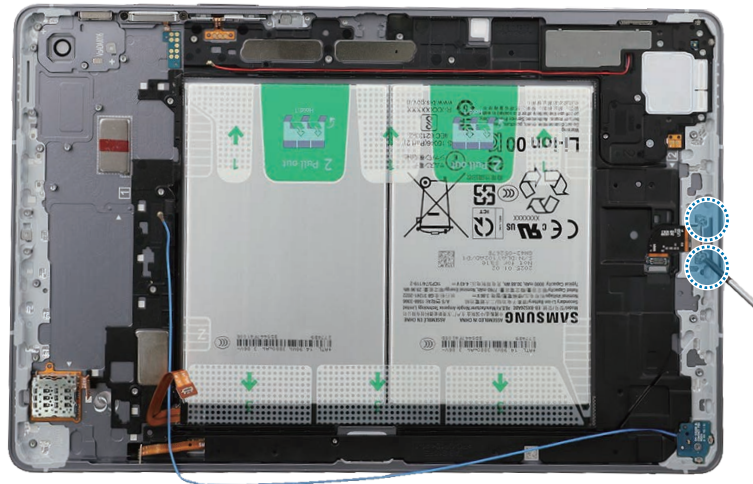


10 Using the tweezers, disconnect the flex cable connector and remove the charging port flex cable completely.

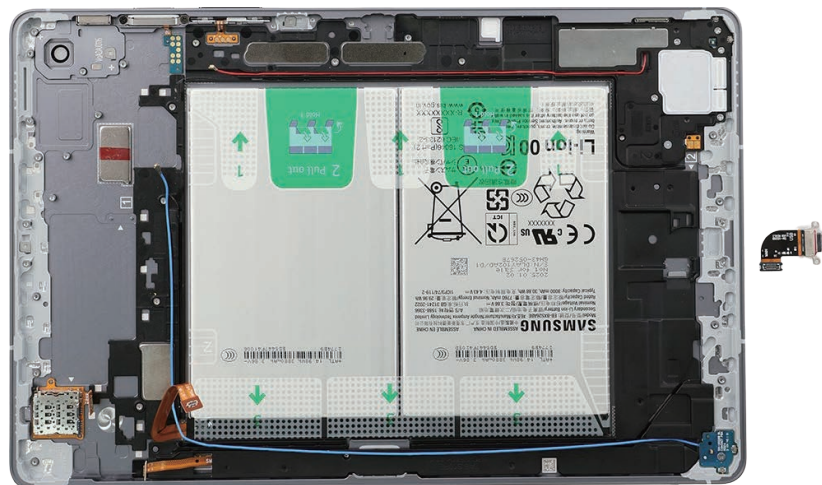
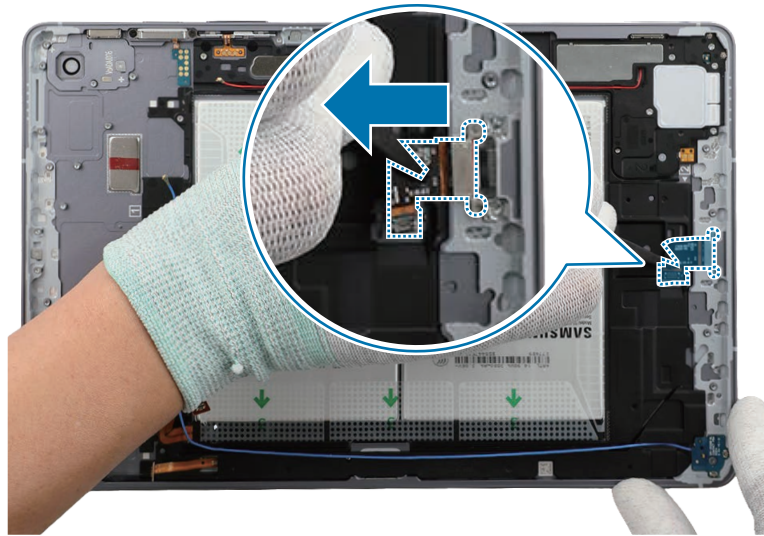
⚠ Be careful not to damage the cable while removing the connector.



- 11 Check the screws at the 2 different points on the charging port and remove them using a cross-head screwdriver.
-  Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



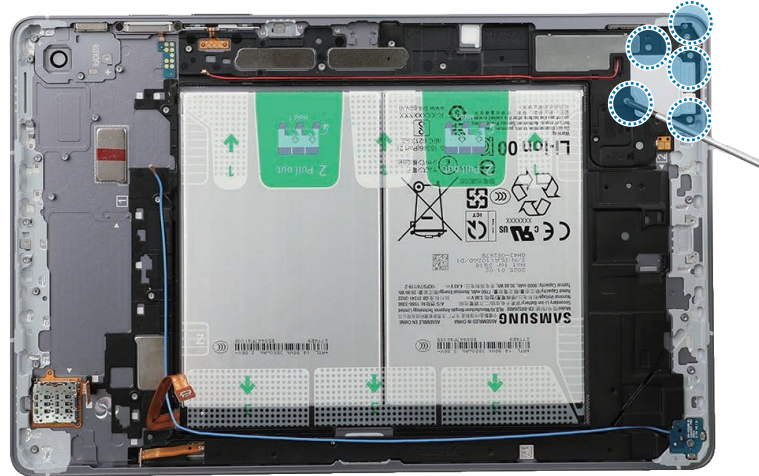
- 12 Using the tweezers, separate the FPCB of the charging port carefully and remove the charging port from the back cover module.



13 Check the 5 screws on the speaker module and remove them using a cross-head screwdriver.

⚠ Be careful not to damage the near components.

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



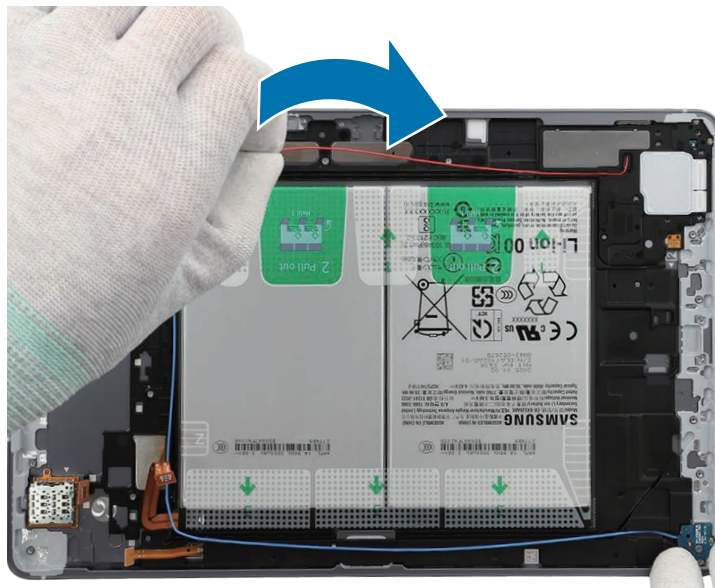
14 For the 5G or LTE devices, lift up and separate the coaxial cable (Red) from the back cover module. Using the tweezers, separate the FPCB of speaker module carefully. Using the tweezers, lift up on the separator groove of the speaker module and separate it from the back cover module.

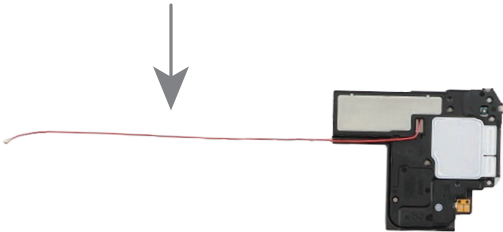
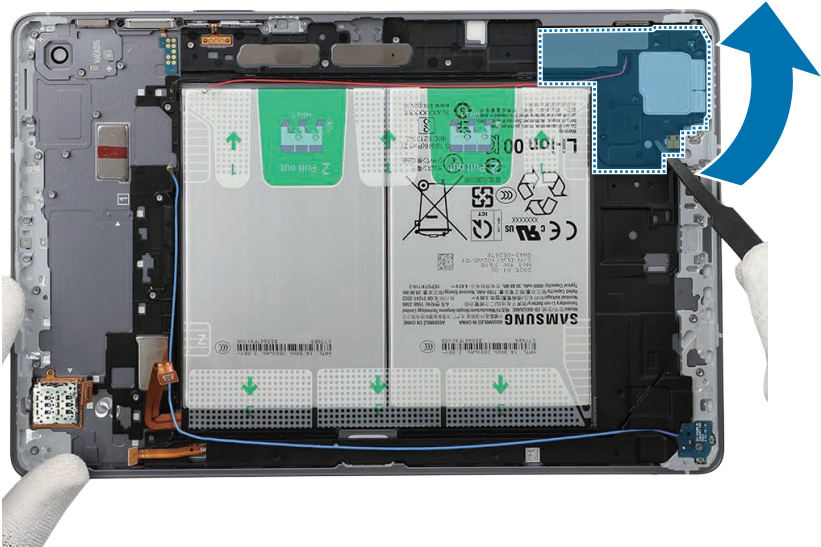


- Be careful not to damage the cable while removing the connector.
- Be careful not to damage the near components.



- The coaxial cable (Red) is only available for the 5G or LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.





- 15 Using the tweezers, lift up on the separator groove of the SIM card socket slowly and remove it carefully from the back cover module.

⚠ Be careful not to damage the SIM card socket.



16 Check the screw on the antenna PBA and remove it using a cross-head screwdriver.



Be careful not to damage the near components.

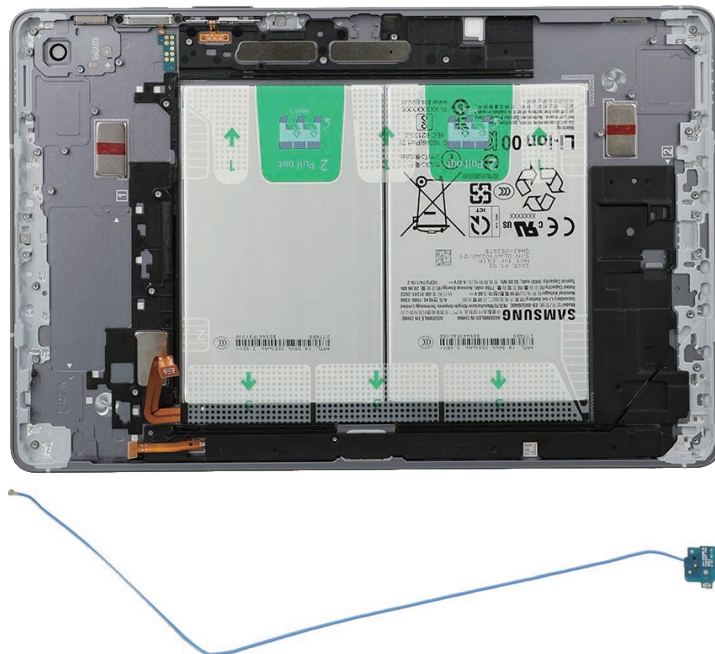
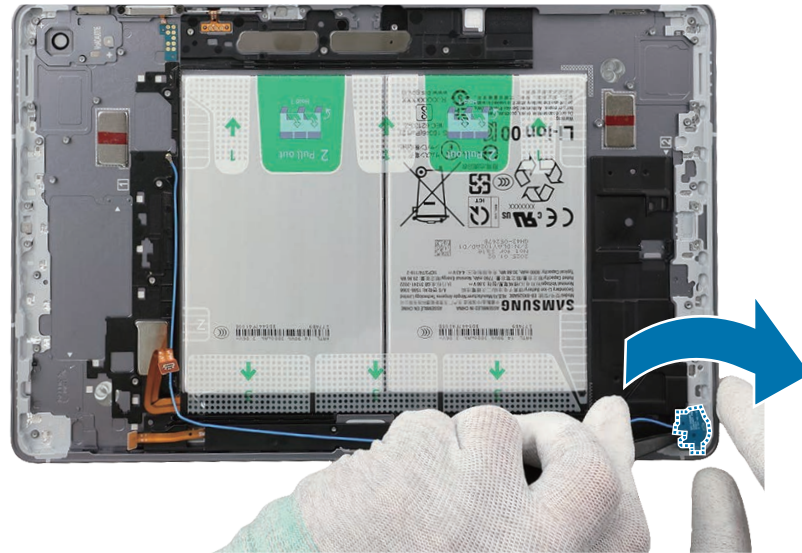


Check the number of screws that have been removed, and store them carefully to make sure that no unassembled screws are left inside the device during assembly.



17 Using the tweezers, lift up the antenna PBA from the back cover module and remove it.

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



Reassembly

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

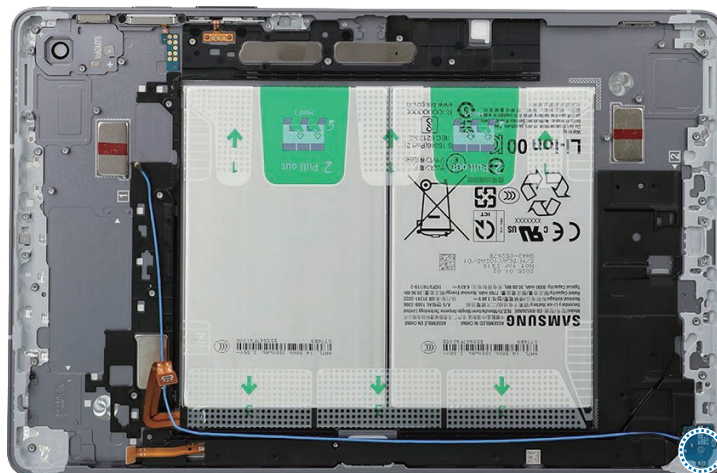
1 Using the tweezers, place the antenna PBA to the exact position, and assemble it to the back cover module. Press down on it in its position smoothly.

! Be careful not to damage the cable while connecting the connector.



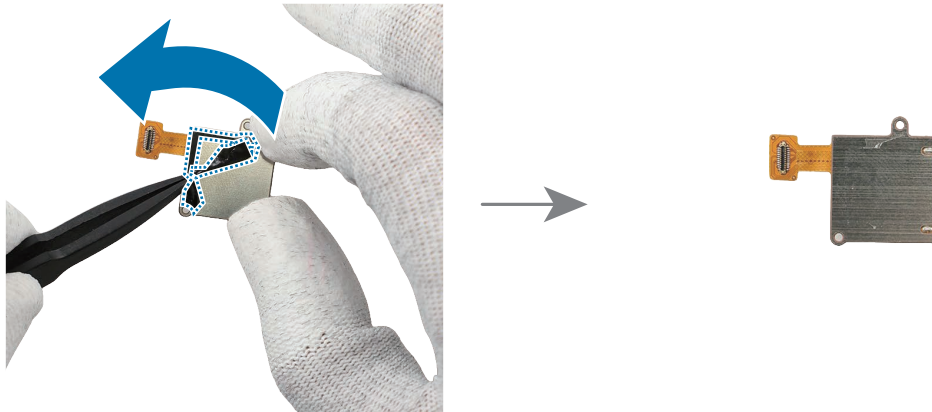
2 Check the screw 3523 (1 ea) on the antenna PBA and fasten it using a cross-head screwdriver.

! Be careful not to damage the near components.

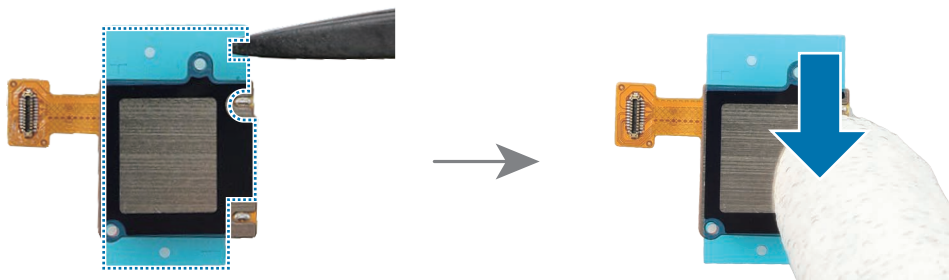


- 3 If you use the existing SIM card socket as it is when reassembling, remove all adhesive tapes on the bottom of the SIM card socket using the tweezers.

⚠ Be careful not to damage the SIM card socket.

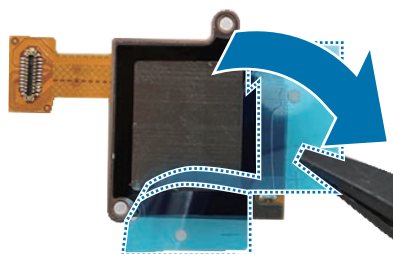


- 4 Remove the clear film from the new SIM card socket adhesive tape and apply it to the bottom of the SIM card socket. Gently press down on the tape with your fingers so that it can be attached well.



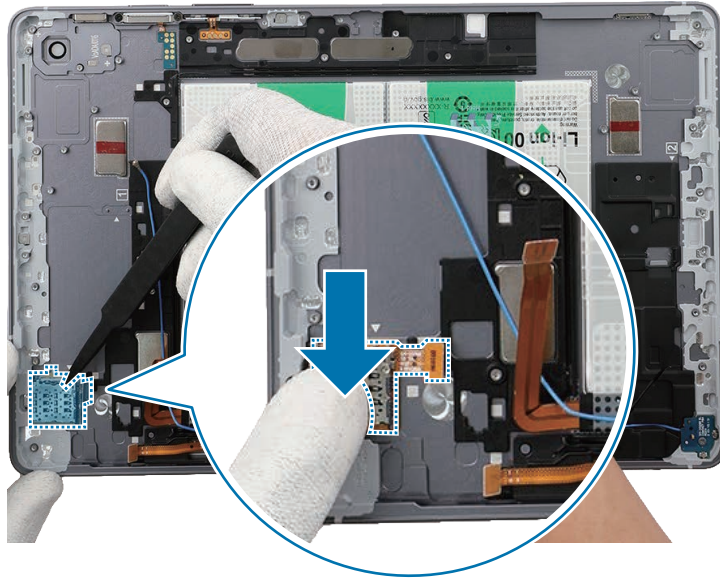
- 5 Using the tweezers, hold the protruding release film of all the attached tape and carefully remove it.

⚠ Be careful not to damage the SIM card socket.



- 6 Using the tweezers, assemble the SIM card socket to the exact position of the back cover module and press it down lightly with your fingers so that it is fully attached.

⚠ Be careful not to damage the SIM card socket and near components.



- 7 Place the speaker module to the exact position and assemble it to the back cover module.

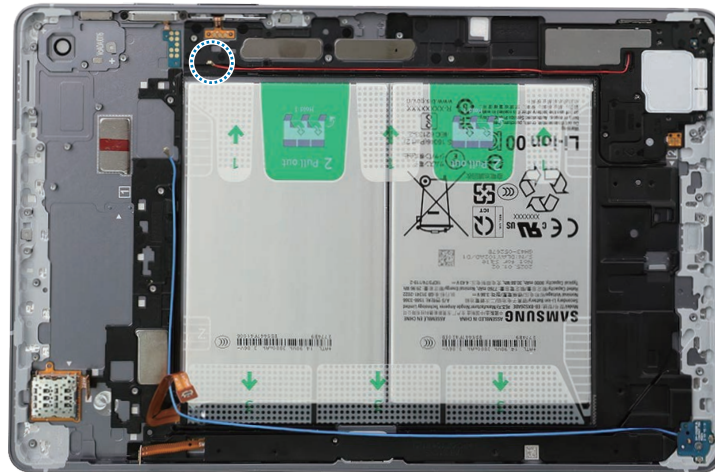
⚠ Be careful not to damage the near components.



8 For the 5G or LTE devices, carefully connect the coaxial cable (Red) to the back cover module and connect the coaxial cable connector (Red) to the main board.



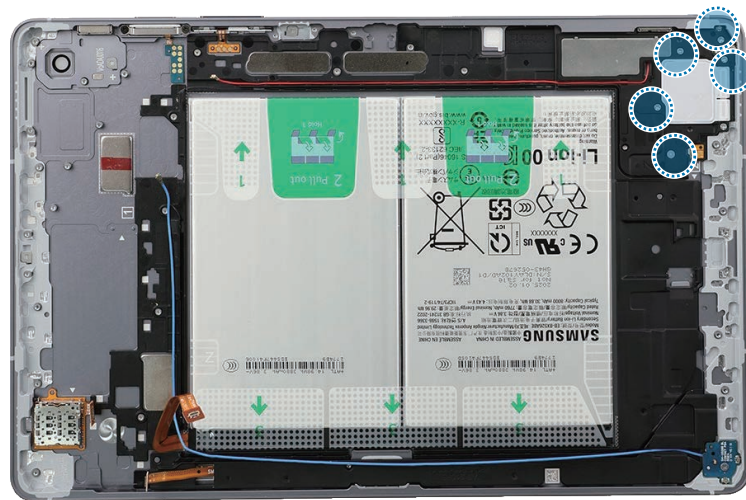
- The coaxial cable (Red) is only available for the 5G or LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



9 Check the screw 3570 (5 ea) and fasten them on the speaker using a cross-head screwdriver.

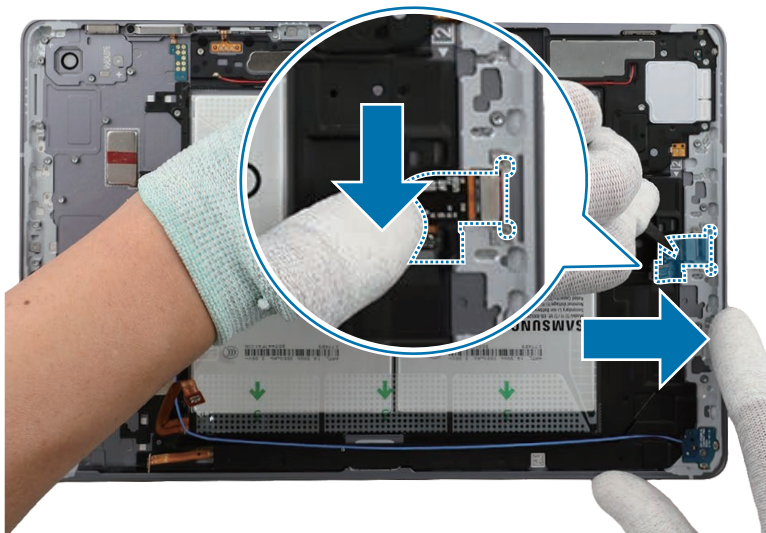


- Be careful to not damage the speaker and near components.

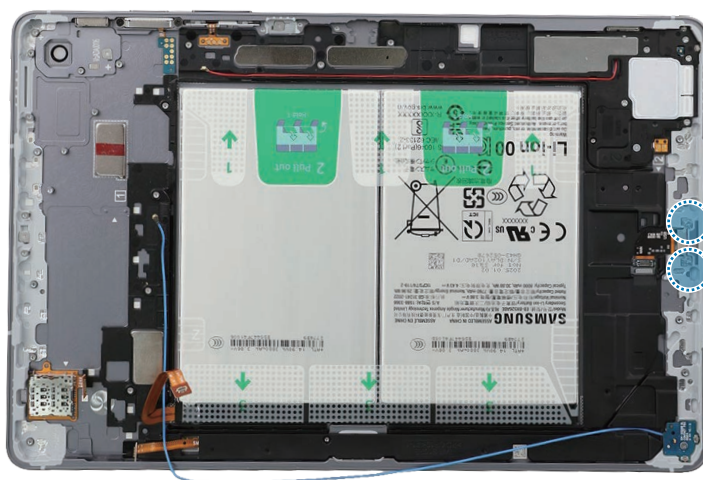


- 10 Remove the release film of the new charging port. Insert the charging port into the exact position of the back cover module and press down on it in its position softly.

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

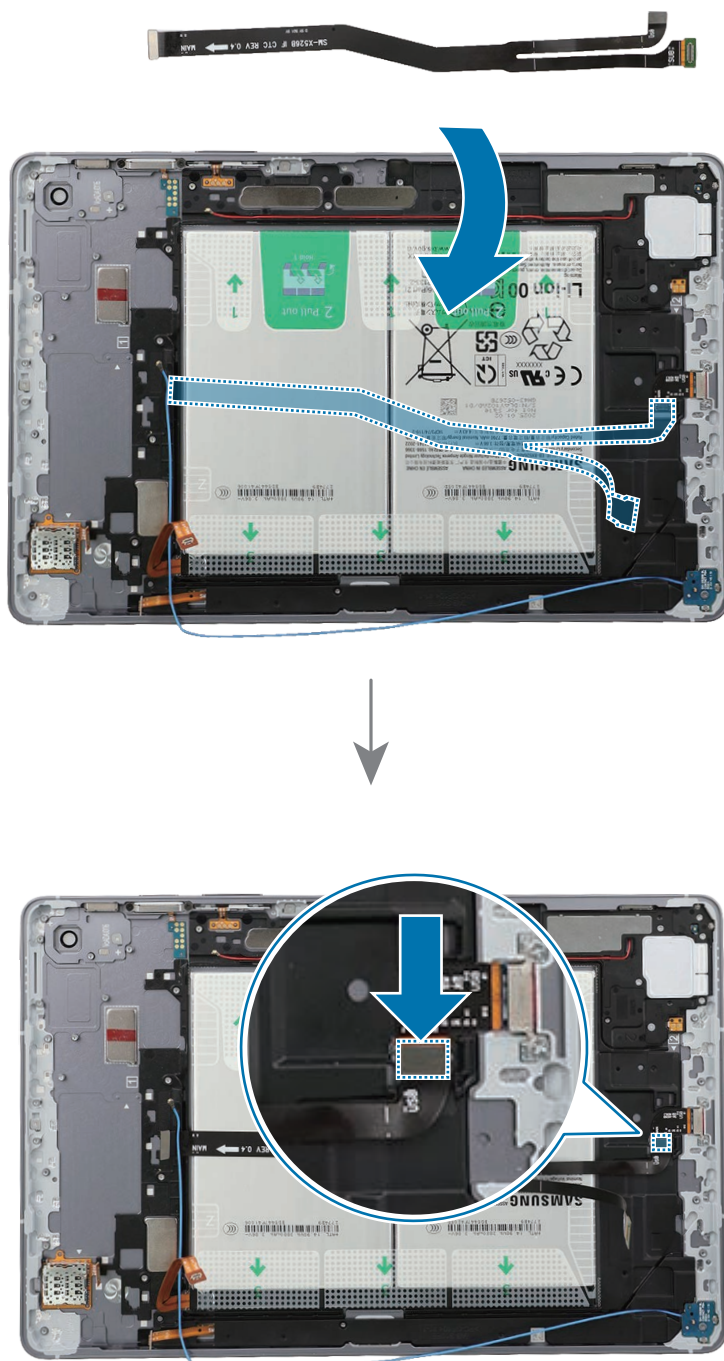


- 11 Check the screws 3570 (2 ea) on the charging port module and fasten them using a cross-head screwdriver.

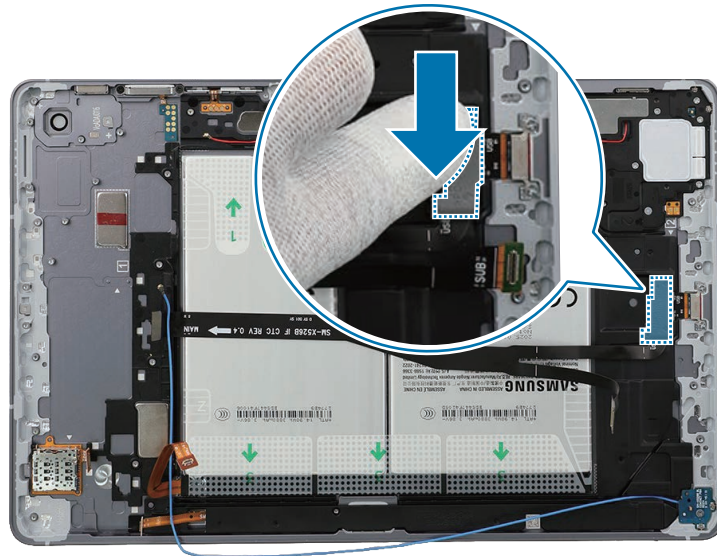


12 Place the flex cable to the back cover module and connect the connector carefully.

⚠ Be careful not to damage the cable.



- 13 Using the tweezers, place the flex cable connector cover to the exact position, and assemble it to the back cover module. Press down on it in its position smoothly.

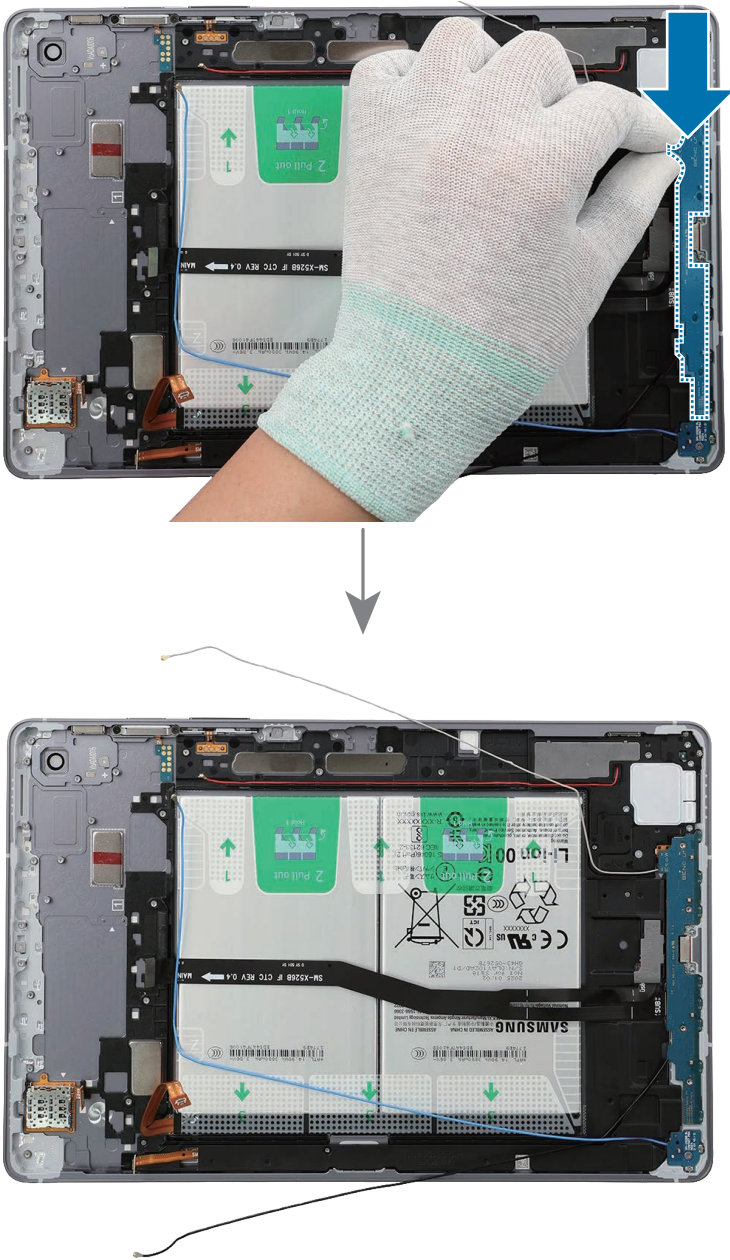


- 14 Place the sub PBA on the back cover module and connect the flex cable connector on the back of sub PBA. Place the sub PBA to the exact position, and assemble it to the back cover module. Press down on it in its position smoothly.



- Be careful not to damage the sub PBA side contact.
- Be careful not to damage the cables and connectors.





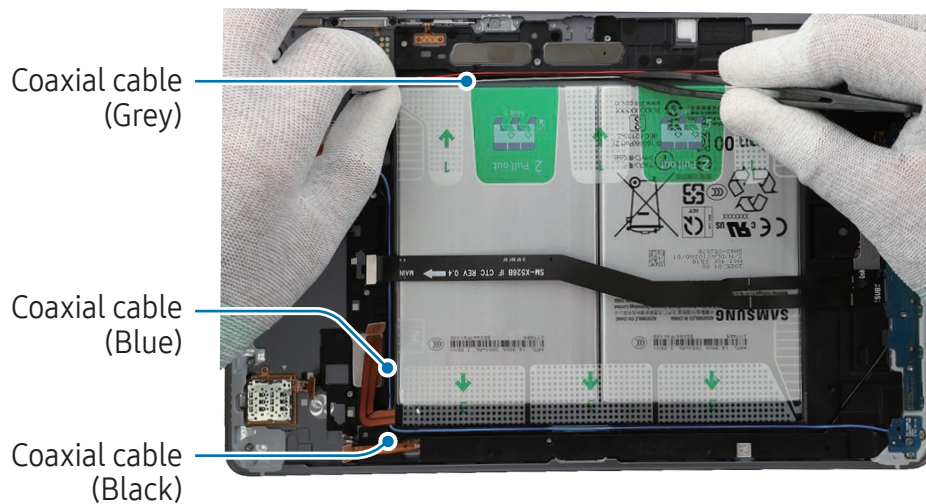
15 For the 5G or LTE devices, connect the 3 coaxial cables (Black/Blue/Grey) to the back cover module carefully.



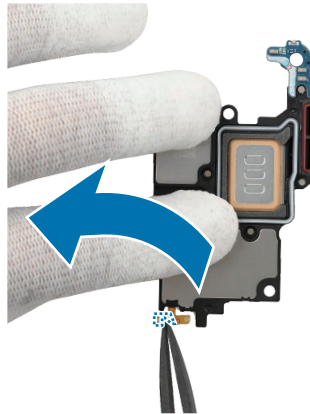
- Be careful not to damage the near components.
- Be careful not to damage the cables.



- The 3 coaxial cables (Black/Blue/Grey) are only available for the 5G or LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.

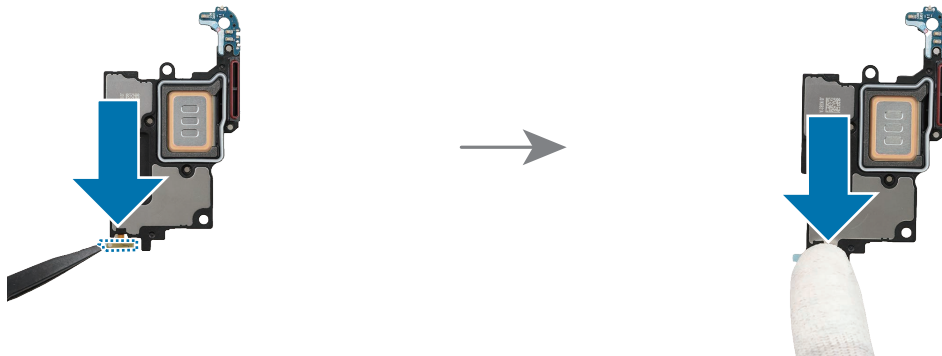


- 16 Using the tweezers, remove the adhesive tapes on the bottom of the speaker1 module FPCB.



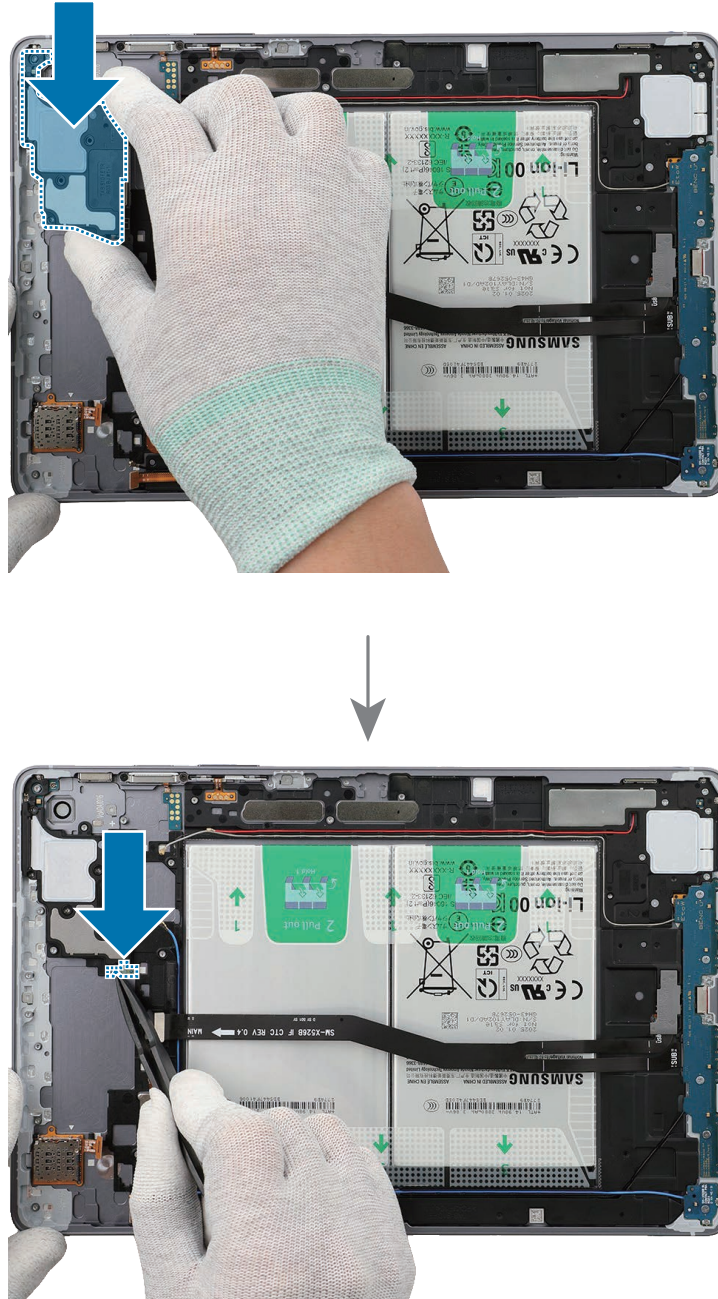
- 17 Remove the release film from the new FPCB tape and attach it to the FPCB of speaker 1 module with tweezers. Press the tape with fingers so that it can be attached well.

⚠ Be careful not to damage the speaker module.



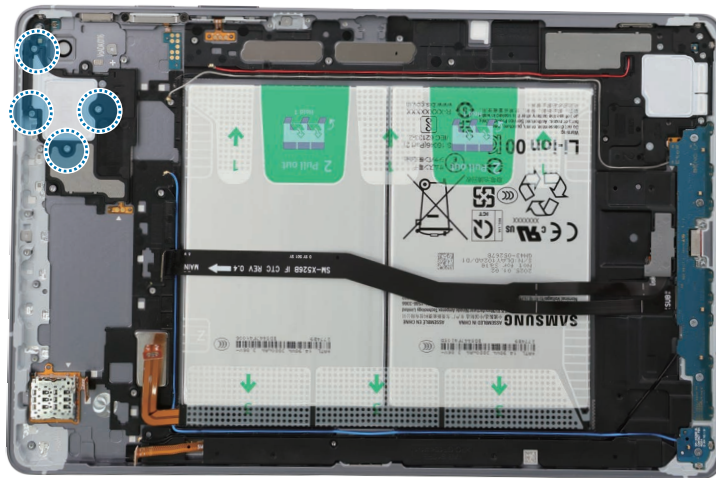
18 Place the speaker module to the exact position, and assemble it to the back cover module.

⚠ Be careful not to damage the near components.



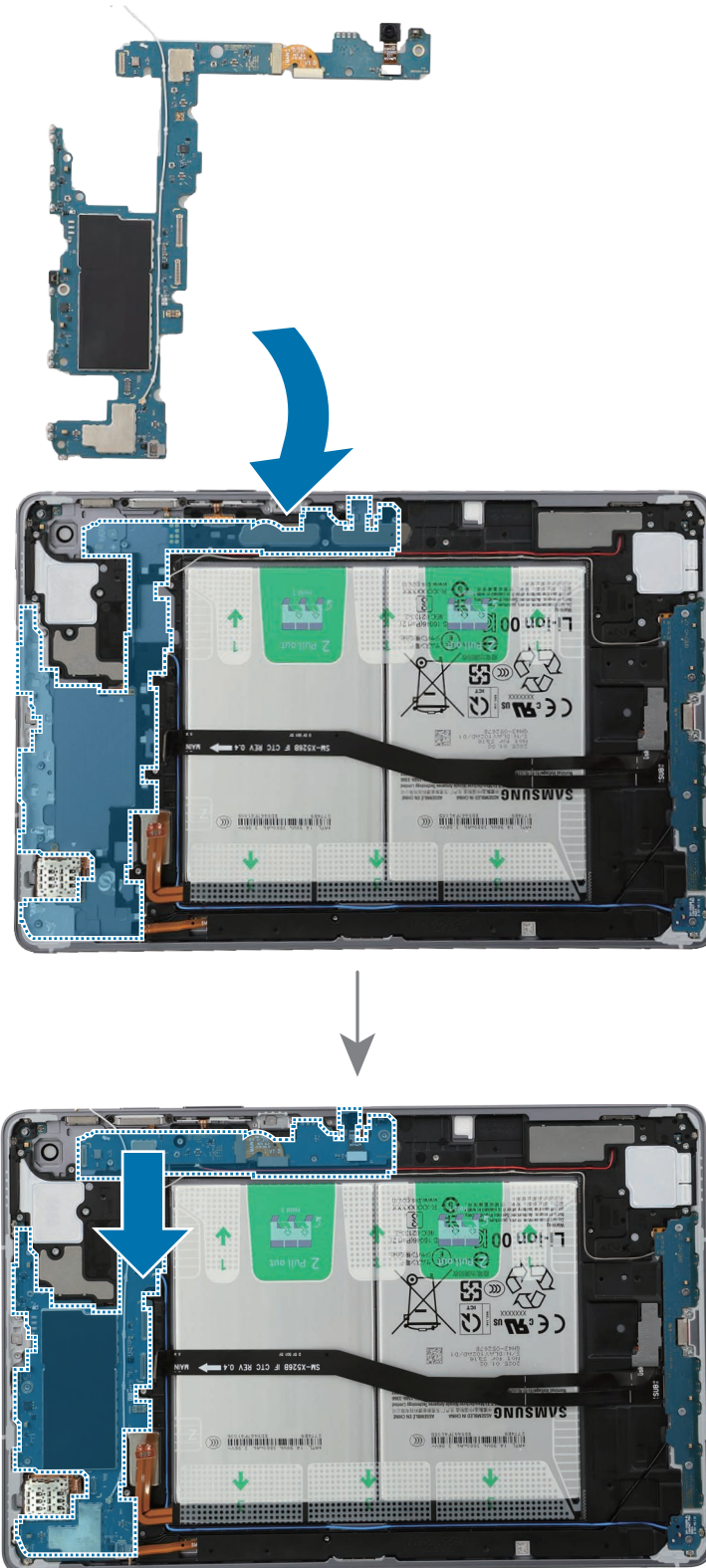
19 Check the screws 3570 (4 ea) and fasten them to the speaker.

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

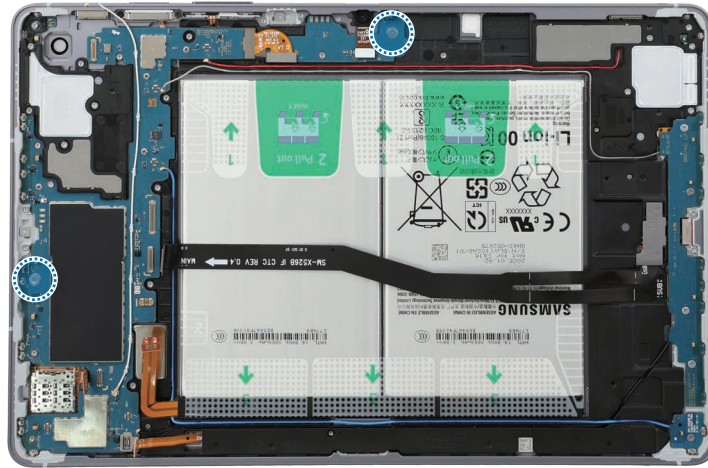


20 Using the tweezers, place the main board and the VT board to the exact position and assemble it to the back cover module. Press down on it in its position smoothly.

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



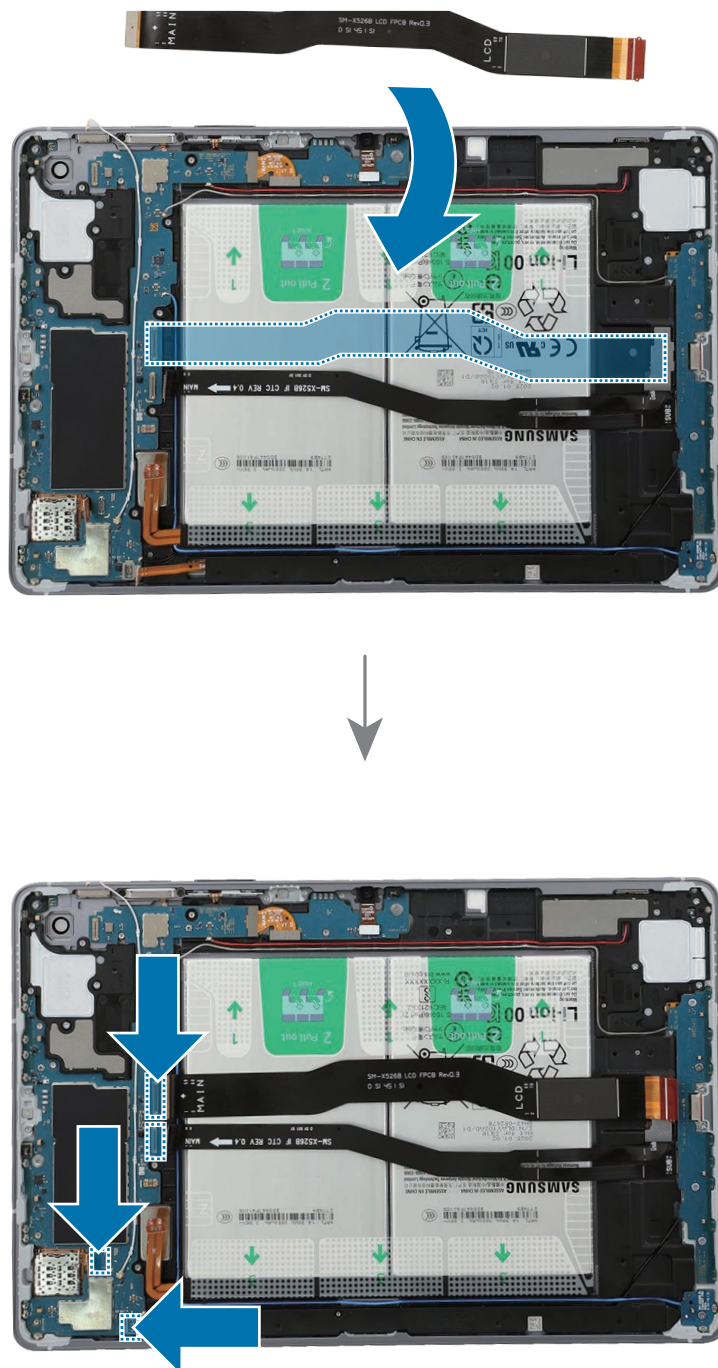
- 21 Check the screw 3521 (2 ea) at the different points and fasten them on the main board and VT board using a cross-head screwdriver.
- ⚠ Be careful not to damage the near components.



22 Place the screen flex cable to the back cover module and connect the 4 connectors carefully.



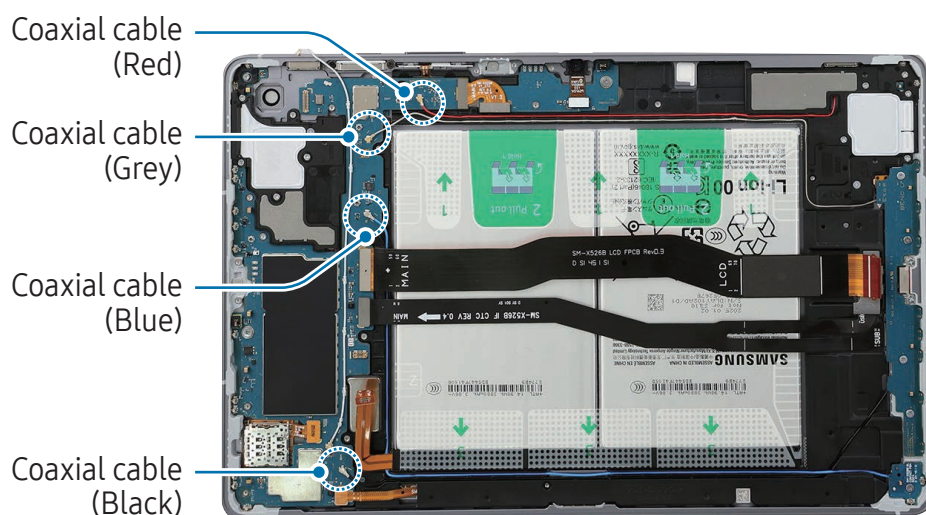
- Be careful not to damage the main board and near components.
- Be careful not to damage the cable while connecting the connectors.



23 For the 5G or LTE devices, connect the 4 coaxial cable connectors (Red/Blue/Grey/Black).



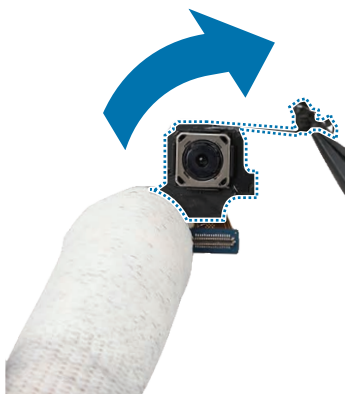
- The 4 coaxial cables (Red/Blue/Grey/Black) are only available for the 5G or LTE devices.
- The cables and connectors may vary depending on the country, region, or specifications.



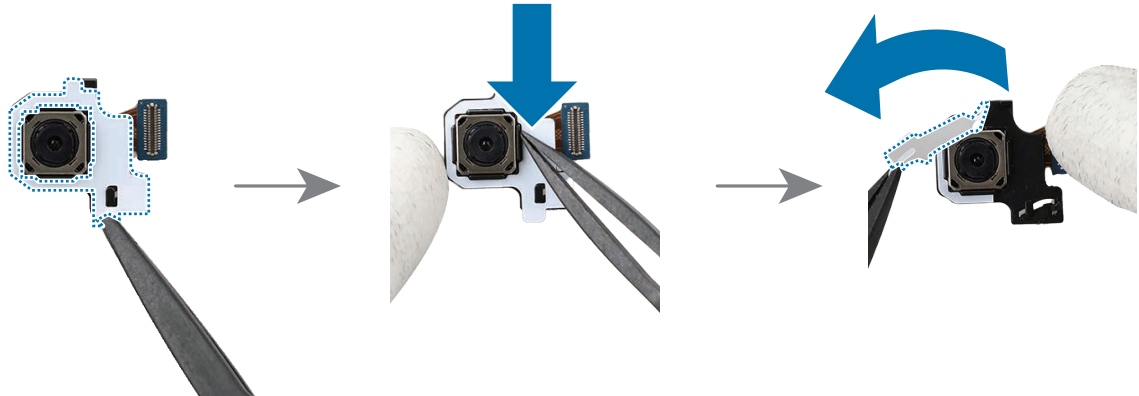
24 Using the tweezers, remove the adhesive tape on the rear camera.



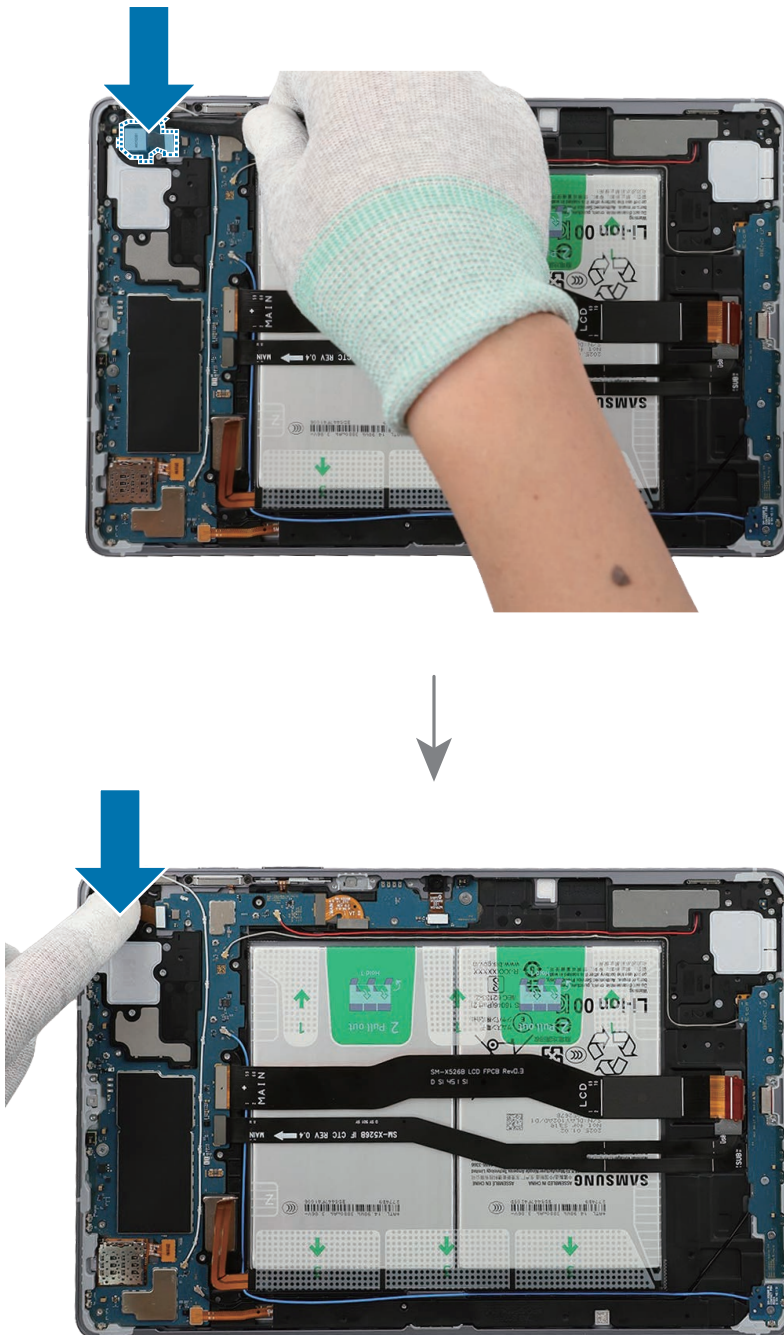
- Be careful not to damage the rear camera.



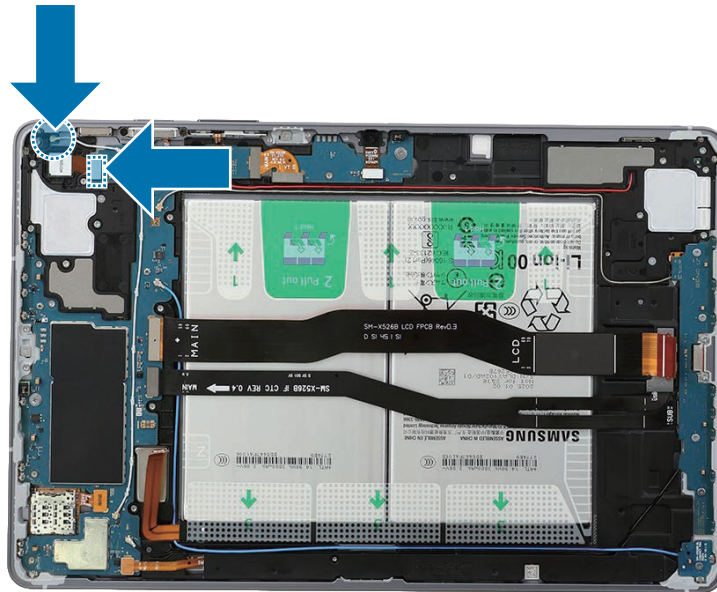
- 25 Remove the clear film from the new rear camera adhesive tape and apply it to the rear camera. Press the tape softly so that the tape can be attached well, and remove the release film from the adhesive tape.



- 26 Using the tweezers, gently insert the rear camera into the camera hole so that the lens faces backward. Press down softly on the rear camera so that the camera can be completely assembled.



- 27 Using the tweezers, connect the rear camera connector and the coaxial cable connector (white) to the main board. Assemble the coaxial cable (white) completely in its position.



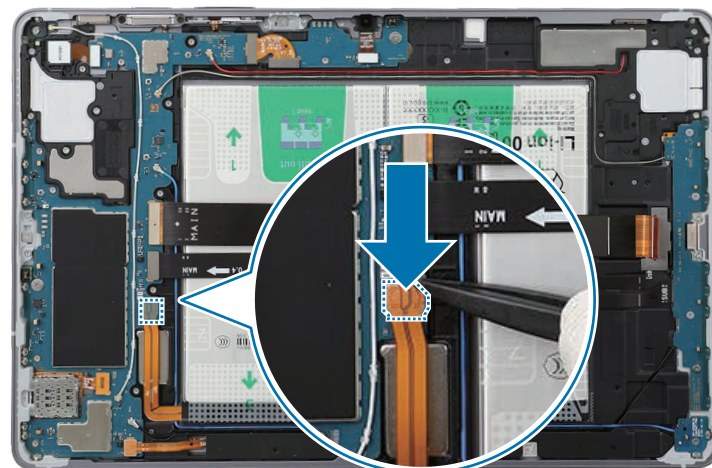
- 28 Connect the battery connector to the main board.



Be careful not to damage the battery.



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



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

Battery

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

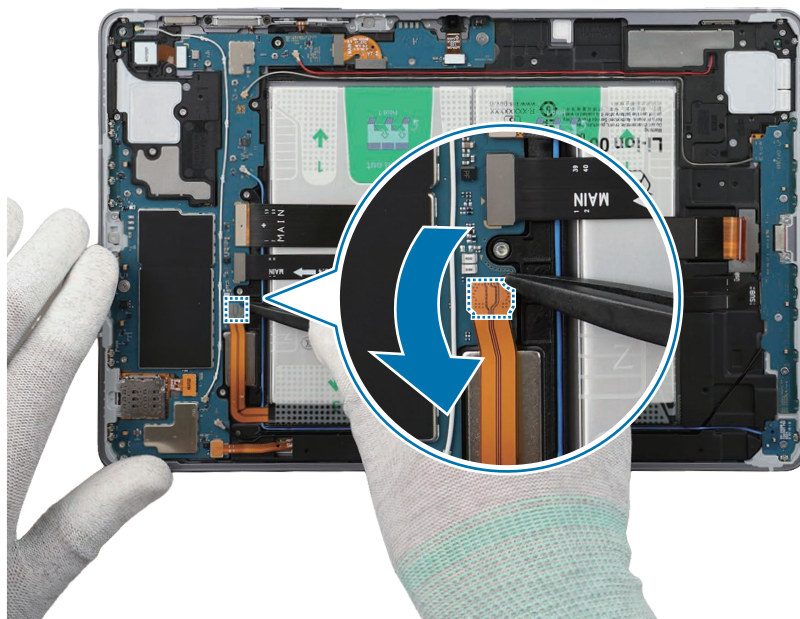
Disassembly

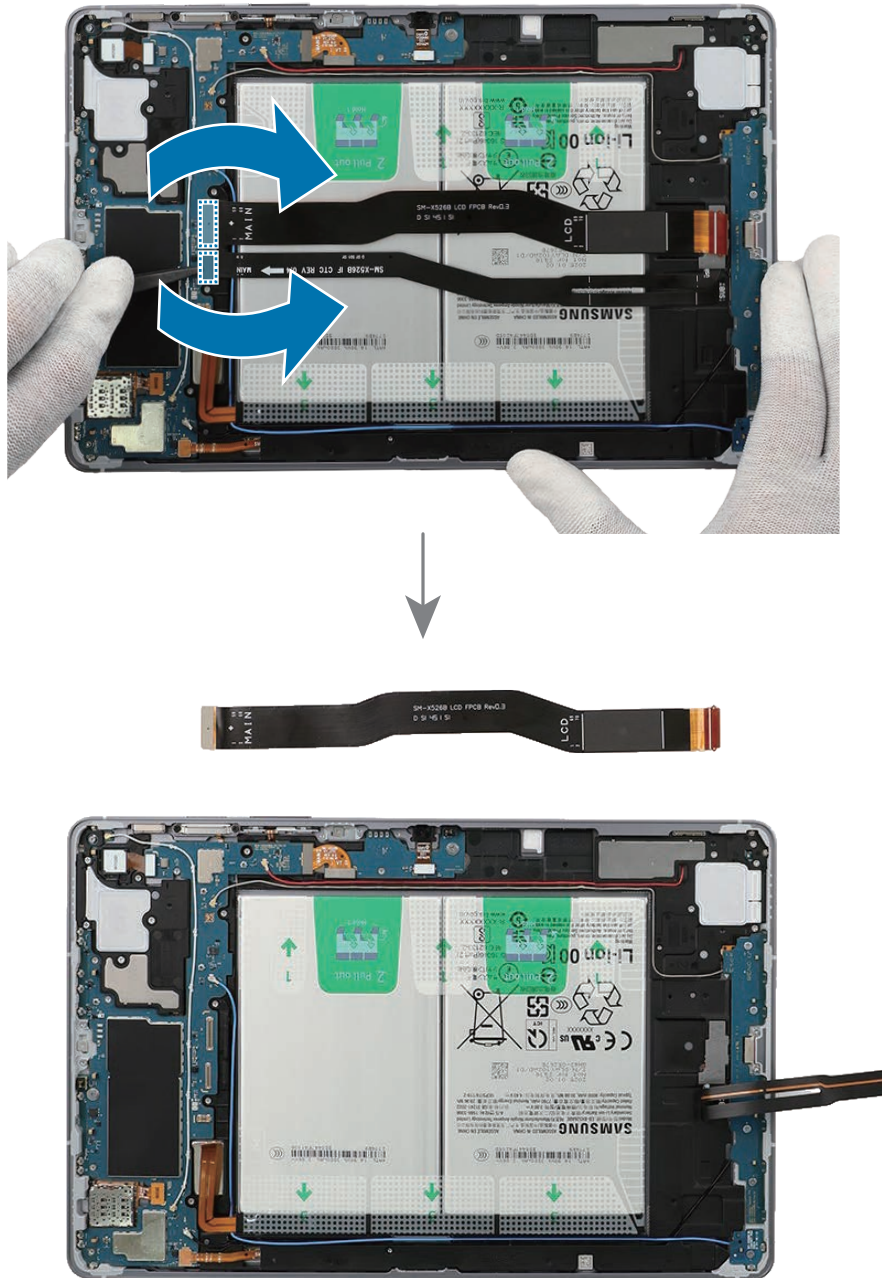
✍ Remove the [Screen](#) and [Bracket](#) first before you begin.

1 Using the tweezers, disconnect the battery connector from the main board first. Using the tweezers, disconnect the 2 flex cable connectors from the main board. Then, remove the screen flex cable completely from the back cover module.

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

- ⚠ • Be careful not to damage the cable while removing the connector.
- Be careful not to damage the near components.

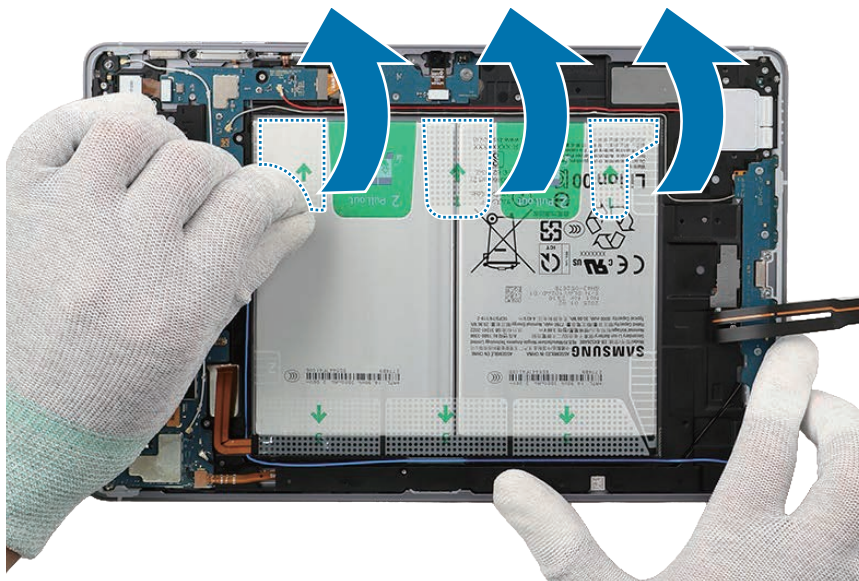


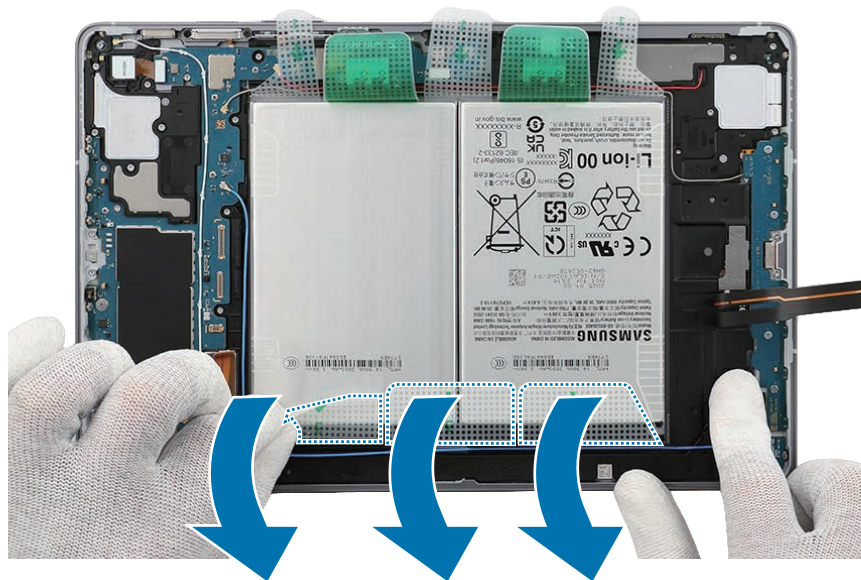


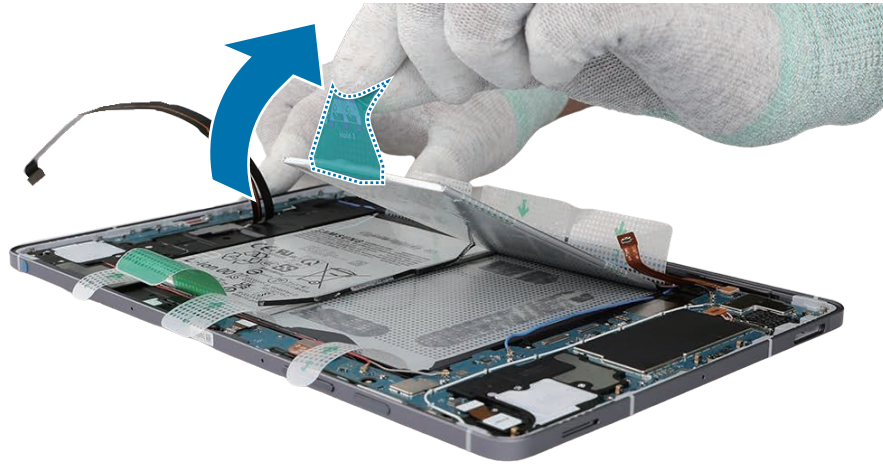
2 Using your fingers, hold the tapes (marked as 1, marked as 2, marked as 3) attached to the battery and separate them from the battery in order. Grab the tapes (marked as 2) with your fingers and pull it up one by one carefully. Slowly lift up the battery from the device and remove it completely.

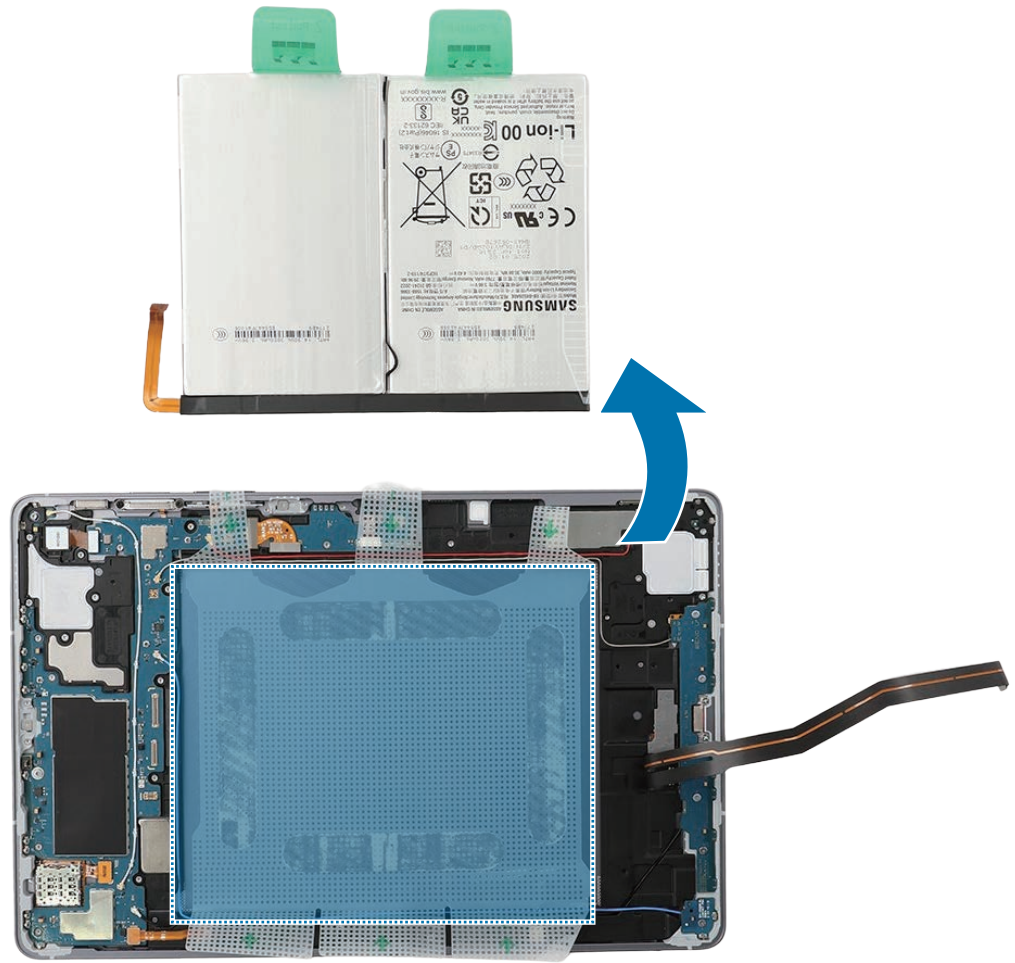


- As the adhesive securing the battery is very strong, remove the battery slowly and carefully.
- The FPCB cables and connectors have to be positioned outside so as not to interfere when disassembling the battery.
- Be careful not to damage the connectors and near components.









Reassembly

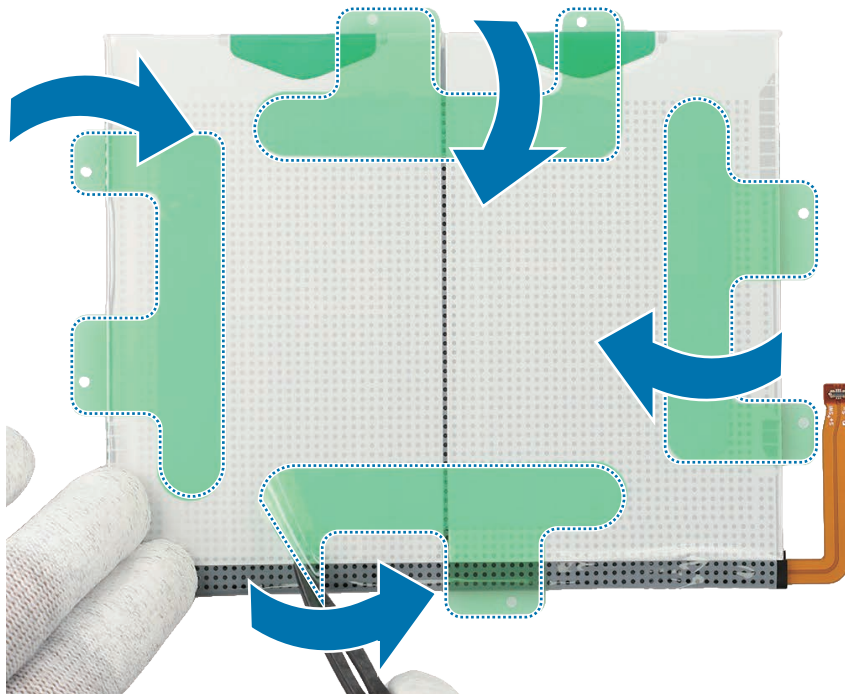
 Leaving screws inside the device may damage internal components, such as the battery. When assembling, be extra careful not to leave any unassembled screws inside the device.

- 1 Remove all the remaining adhesive tapes on the back cover module.



2 Carefully remove all release films from the new battery.

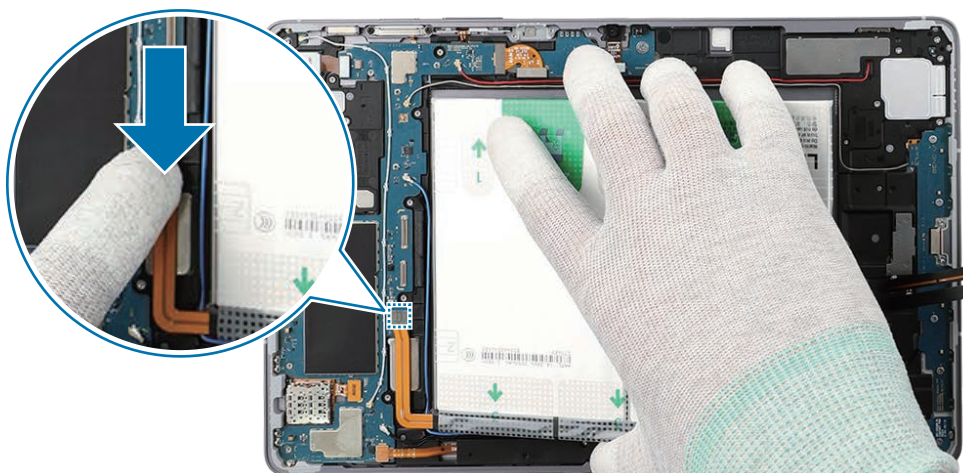
⚠ Be careful not to damage the battery.



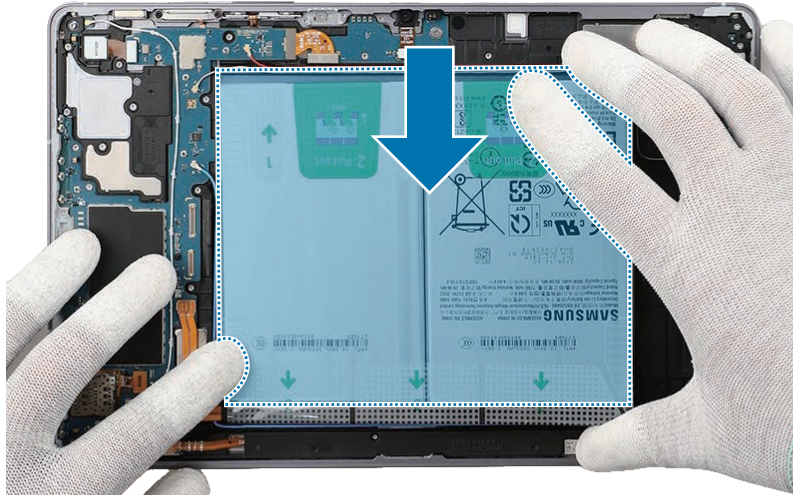
3 Before attaching the battery to the back cover module, connect the battery connector to the main board first.

⚠ Be careful not to damage the battery.

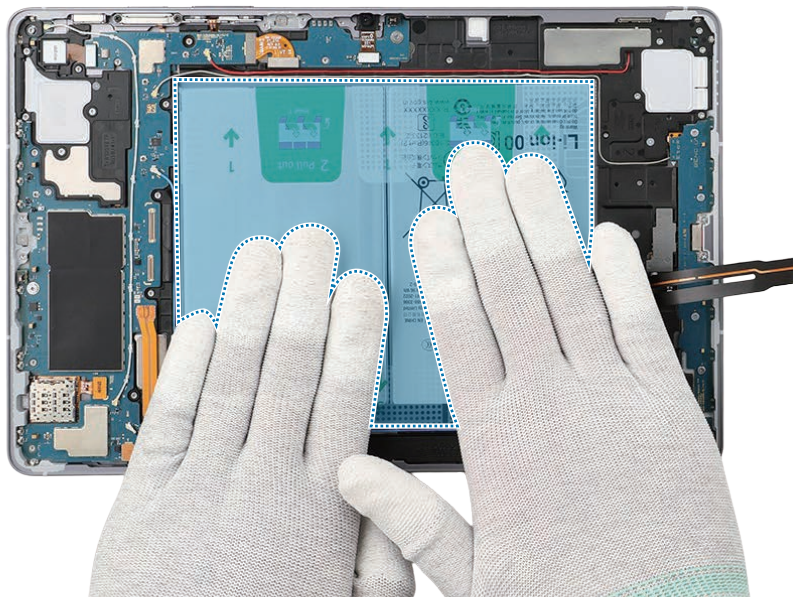
- ⚠ The FPCB cables have to be positioned outside so as not to interfere when assembling the battery.
- Be careful not to damage the near components.



- 4 With the battery connector connected to the main board, assemble the battery in the correct position of the back cover module.

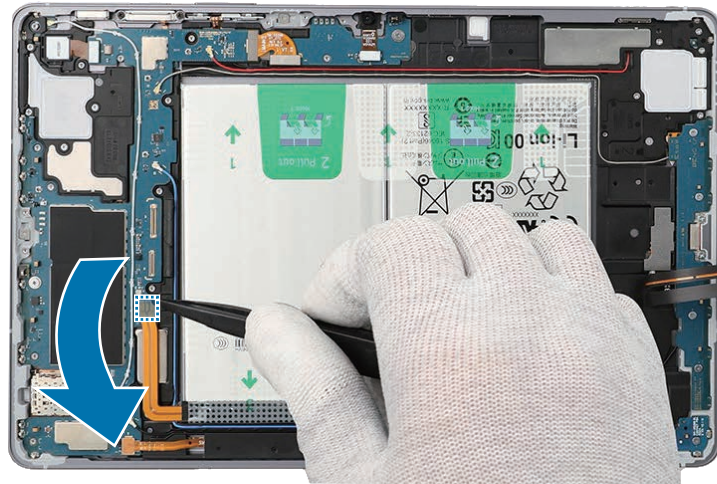


- 5 Press the battery with your fingers softly so that the battery can be attached well.



6 Disconnect the battery connector from the main board.

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



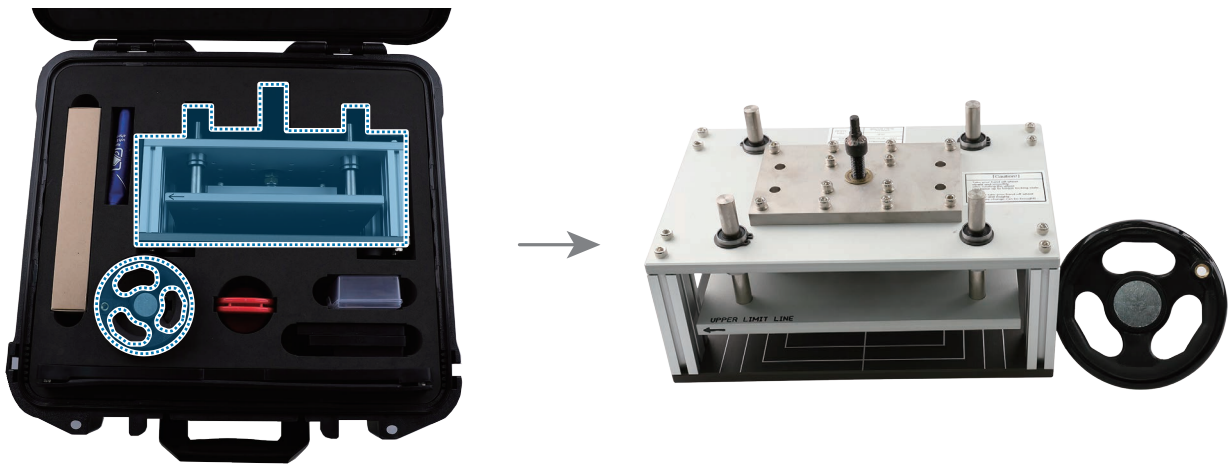
7 Now you can press the fully assembled battery using the press fixture. Remove the press fixture body and its handle from the rental tool kit packaging.



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



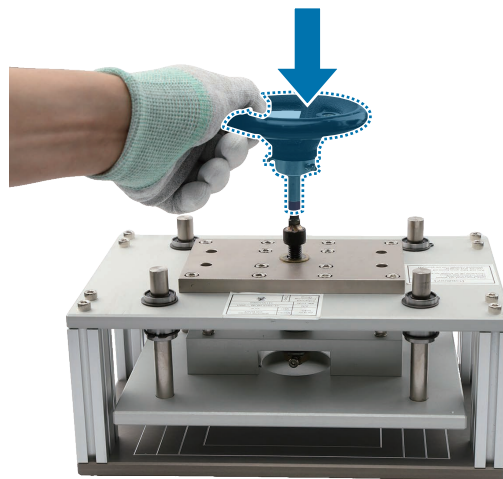
- This tool is only available to use by the rental of tool kit that contains a complete set of the tools for self repair service.
- Availability of rental service may vary depending on the country and is currently available only in limited countries.
- A rented tool kit packaging may have different packaging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



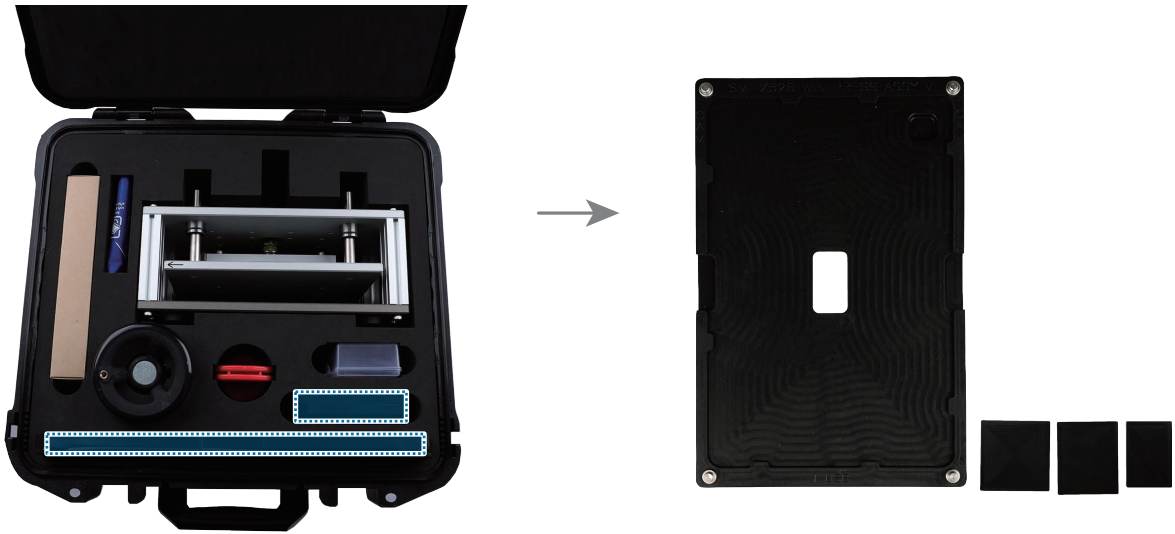
8 Carefully position the torque limit handle horizontally at the top of the press fixture.



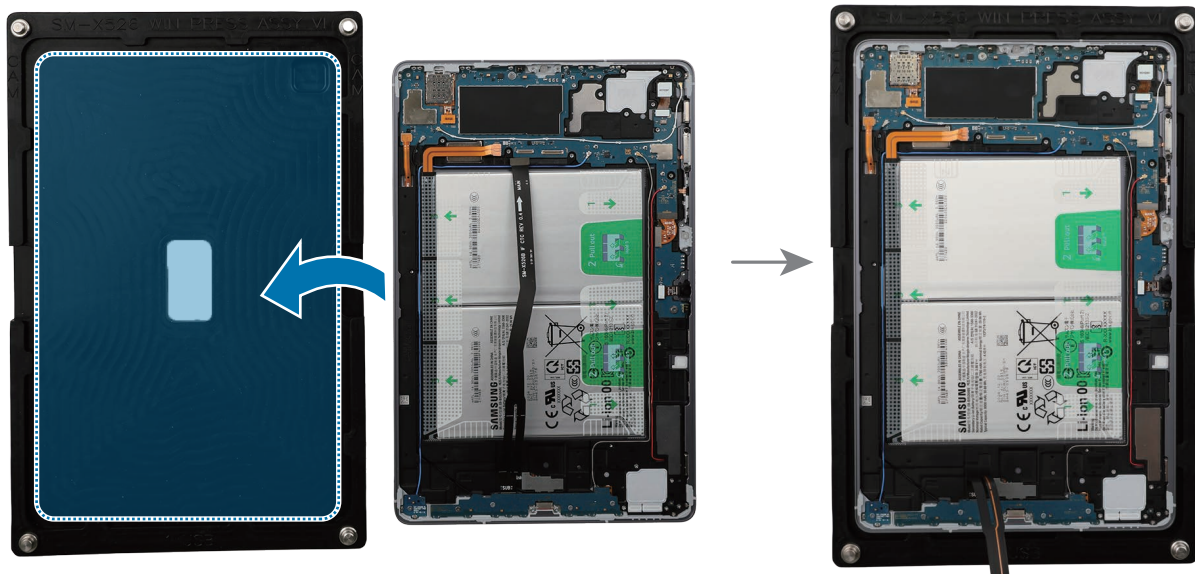
Keep your hands out of the press fixture to avoid mechanical pinching and injury.



- 9 Remove the bottom press tray and the battery rubber pads (3 ea) from the rental tool kit packaging.



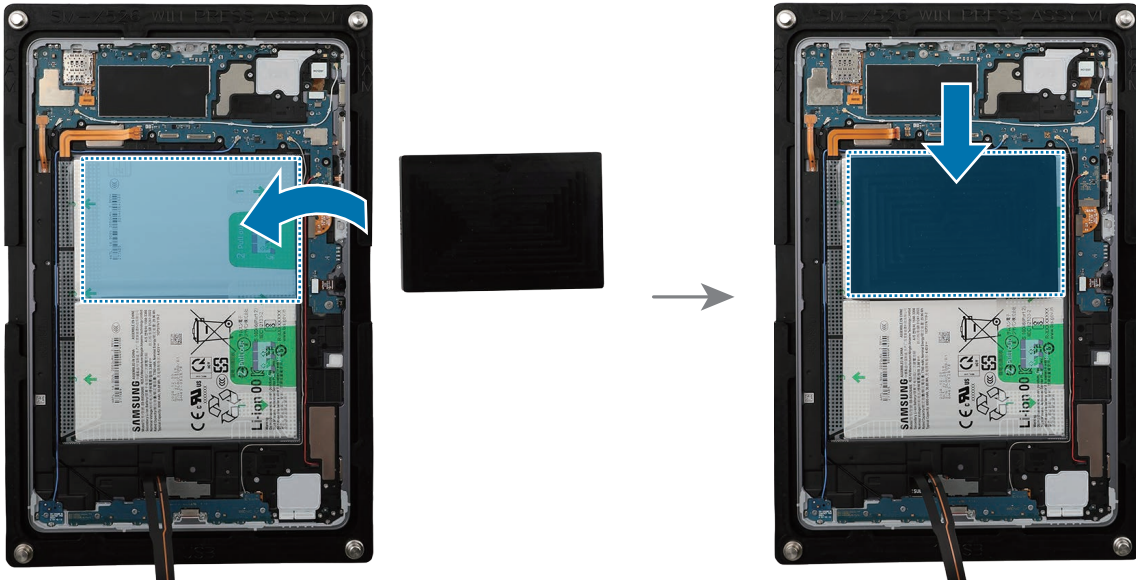
- 10 Place the screen facing down, and then place the device on the bottom press tray position.



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

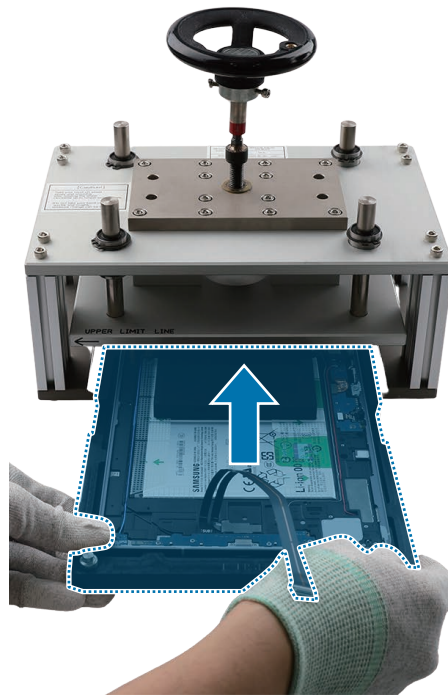


- Be careful not to cover the battery rubber pad beyond the battery size.
- The FPCB cables have to be positioned outside so as not to interfere when compressing the battery.



12 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.

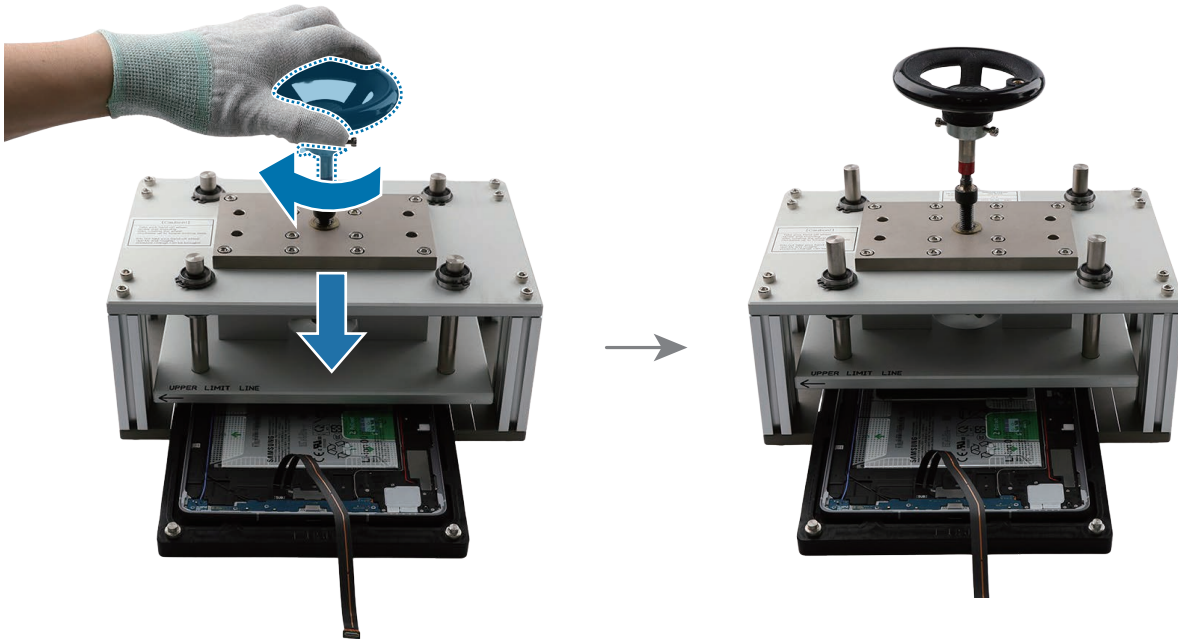
- ❗ • The FPCB cables and connectors have to be positioned outside so as not to interfere when pressing the battery.
- Be careful not to damage the cables and near components.
- Be careful not to move the battery pad out of its position.



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

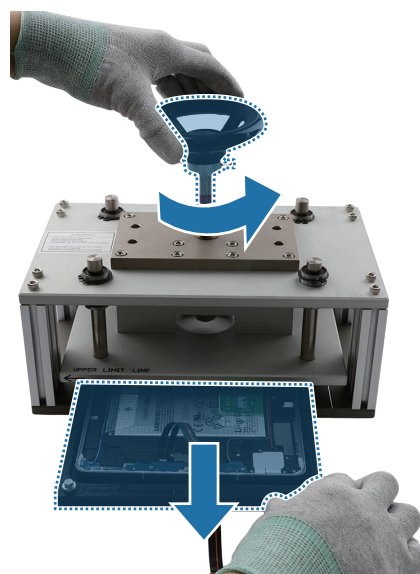
⚠ Keep your hands out of the press fixture to avoid mechanical pinching and injury.

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



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

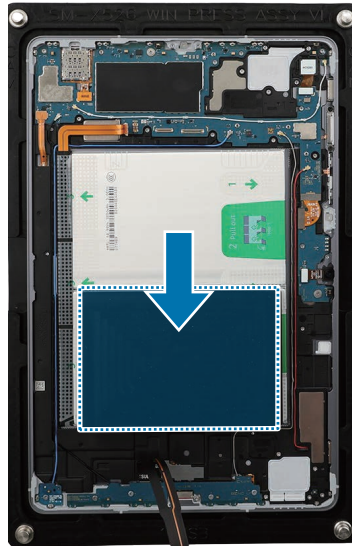
- ⚠ The FPCB cables and connectors have to be positioned outside so as not to interfere when removing the tray.
- Be careful not to damage the cables and near components.



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



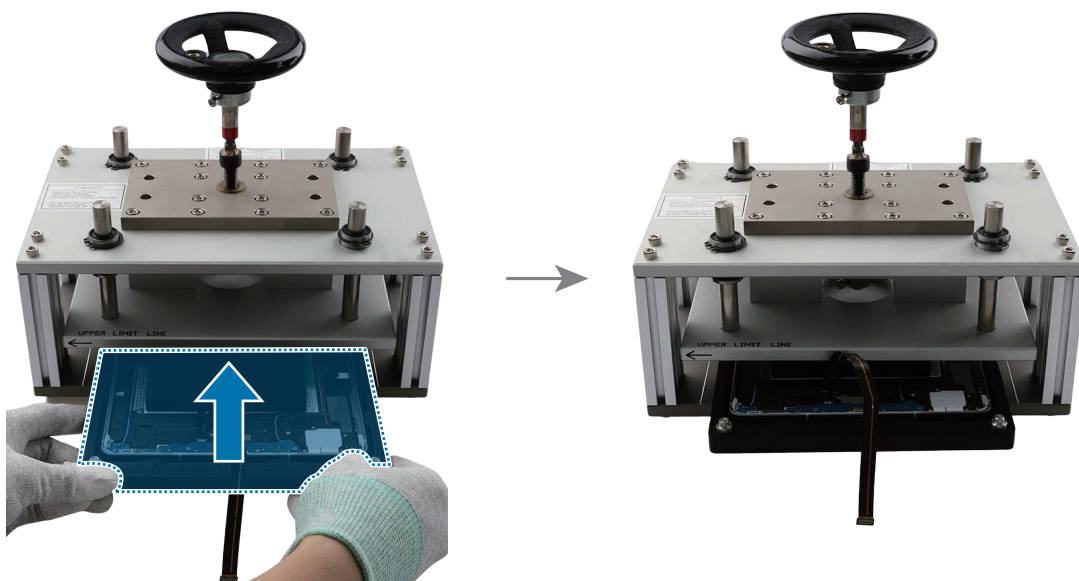
- Be careful not to cover the battery rubber pad beyond the battery size.
- The FPCB cables have to be positioned outside so as not to interfere when compressing the battery.



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



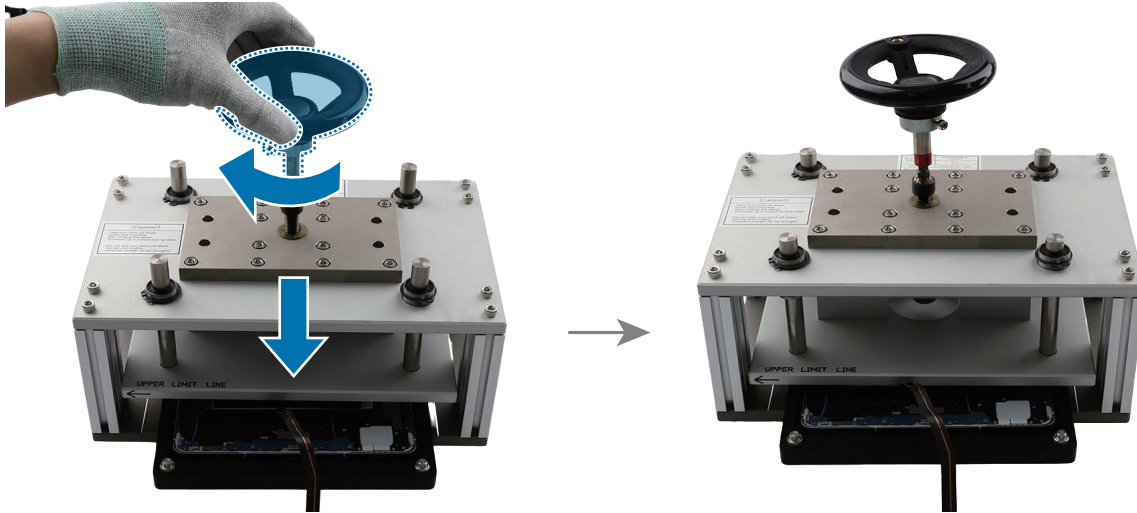
- The FPCB cables and connectors have to be positioned outside so as not to interfere when pressing the battery.
- Be careful not to damage the cables and near components.
- Be careful not to move the battery pad out of its position.



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

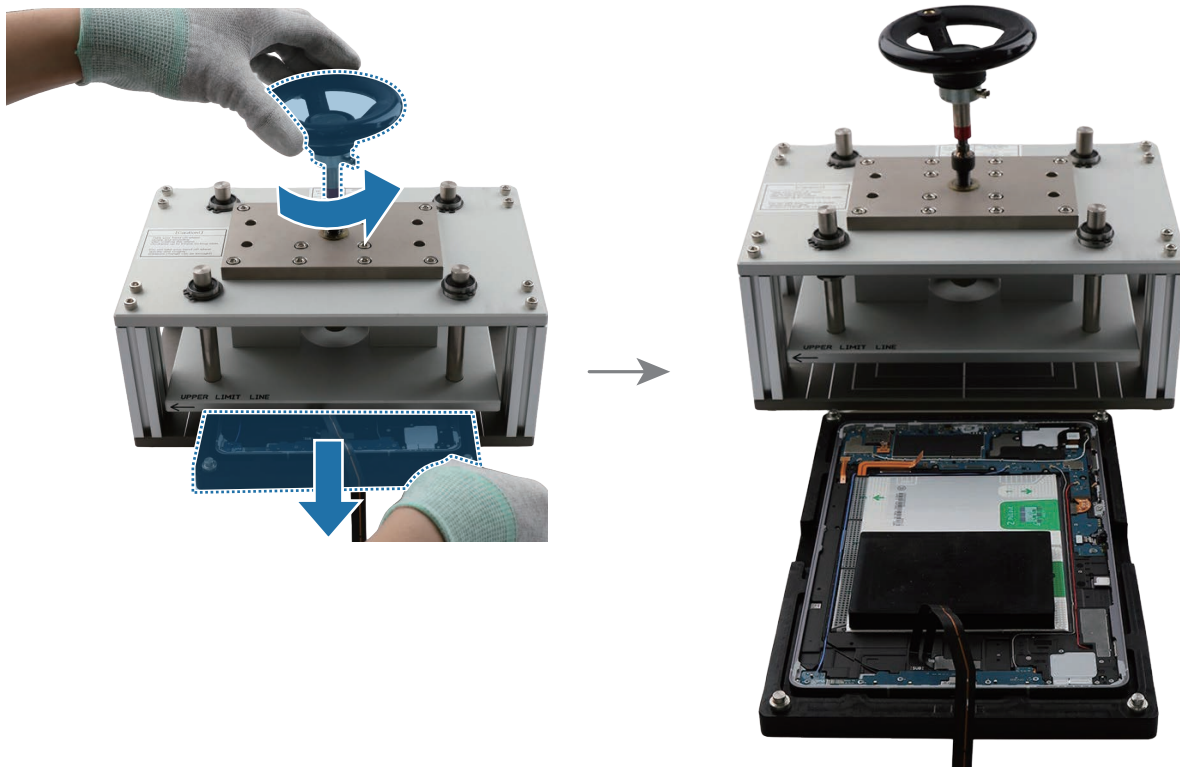
 Keep your hands out of the press fixture to avoid mechanical pinching and injury.

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

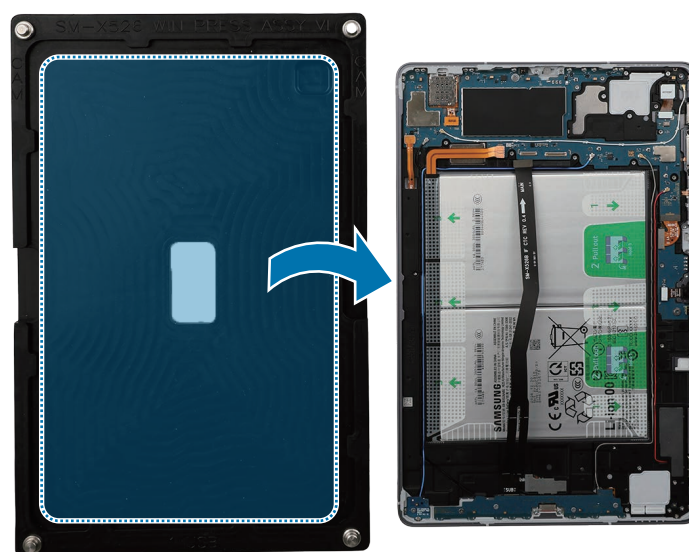


18 When the press is completed after 5 seconds, rotate the torque limit handle to the anticlockwise and remove the tray from the press fixture.

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



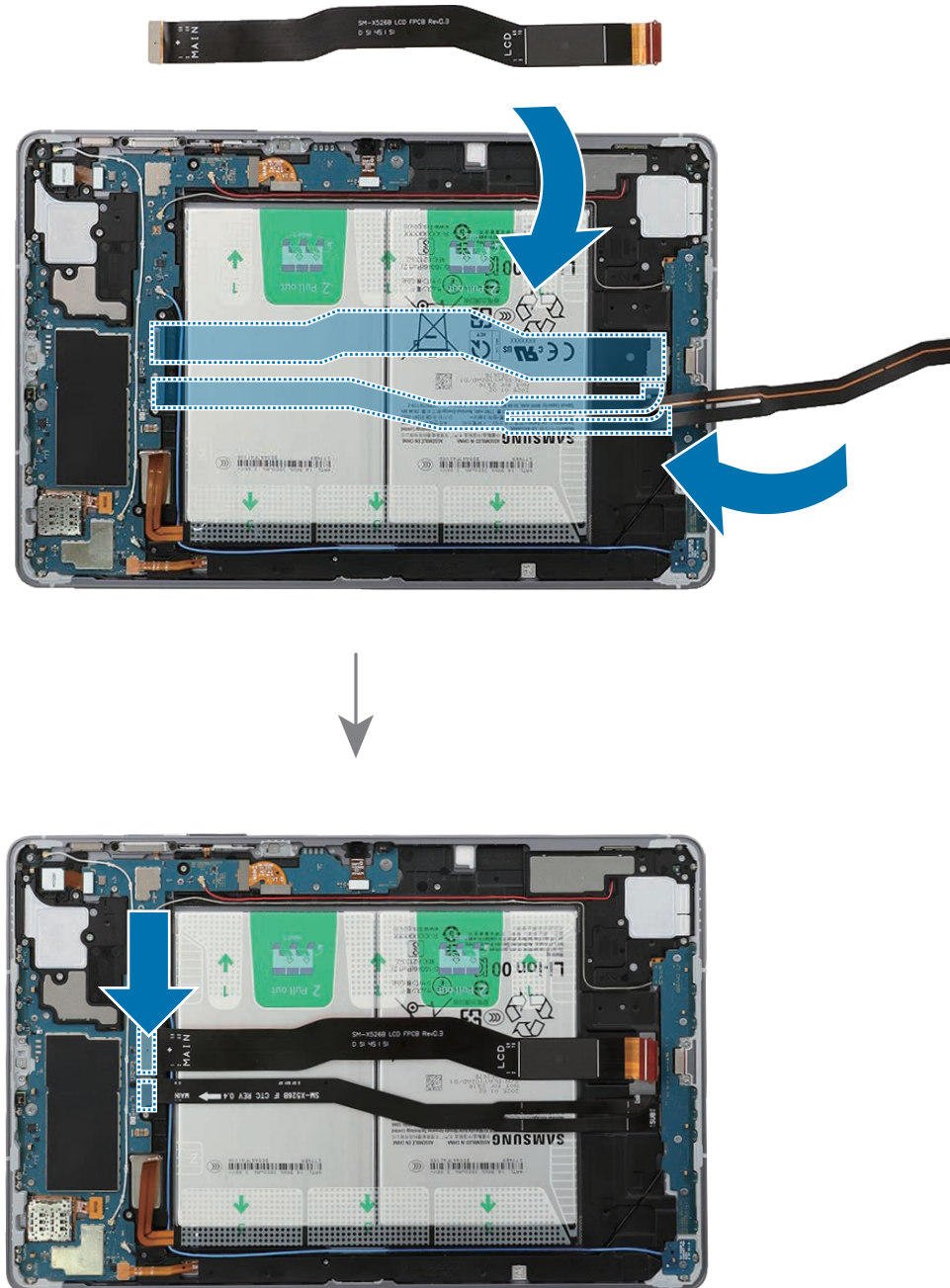
19 Remove the device and the rubber pad carefully from the tray.



20 Place the flex cables to the back cover module and connect the 2 connectors carefully.



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



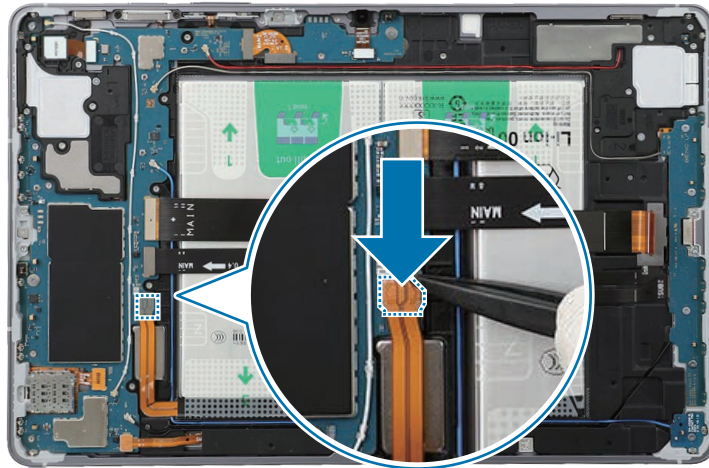
21 Connect the battery connector to the main board.



Be careful not to damage the battery.



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



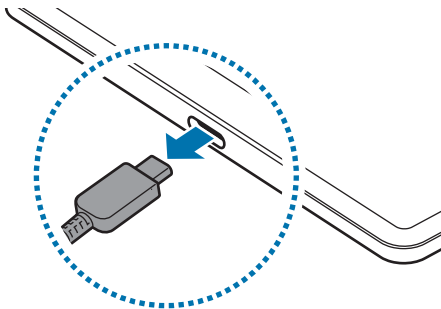
Reassemble [Bracket](#) and [Screen](#) to complete assembly.

After reassembling

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

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 Speaker1 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.
		

Main processor(s) or system on a chip (SOC), Main memory capacity of the system, Mass storage capacity of the system, Wireless networking capability, Graphics capability (integrated or discrete), Display panel or display assembly, All batteries, All internal and external power supplies, All fan assemblies, Speakers, Camera, Touchpad, I/O connectors and external power connection, Readers (eg. magnetic stripe, Dallas key, fingerprint, Smart card) can be replaceable within 5 Years from the date of product purchase, which may incur charges.

	Upgradable	Repairable	Replaceable
Main processor(s) or system on a chip (SOC)	No	No	Yes
Main memory capacity of the system	No	No	Yes
Mass storage capacity of the system	No	No	Yes
Wireless networking capability	No	No	Yes
Graphics capability (integrated or discrete)	No	No	Yes
Display panel or display assembly	No	No	Yes
Integrated mechanical keyboards	No	No	No
All batteries	No	No	Yes
All internal and external power supplies	No	No	Yes
All fan assemblies	No	No	Yes
Speakers	No	No	Yes
Camera	No	No	Yes
Touchpad	No	No	Yes
I/O connectors and external power connection	No	No	Yes
Readers (eg. magnetic stripe, Dallas key, fingerprint, Smart card)	No	No	Yes

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