

Galaxy S24 Repair Guide

S24/S24+/S24 Ultra



Samsung Care

What are we learning?

What components make up Galaxy S24 Series devices? How do you properly disassemble them during repair? How do you ensure the device is correctly assembled after a repair is complete? What tools are required during repair? How do I validate my repair? This training will explore how to provide expert repairs on Galaxy S24 Series devices.

This module will cover:

- Parts of the Device
- Tools and Equipment for Disassembly/Assembly
- How to Properly Disassemble the Device
- Correctly Assembling the Device Post Repair
- Required Outbound Quality

So how does this help me?

After completing this training, you will be able to discuss all of the hardware components that make up Galaxy S24 Series devices. You will be able to explain what tools and equipment are required for assembly and disassembly. You will be able to complete repairs and the required quality control checks and calibrations following your repair.

Galaxy S24

Hardware Components

Removable Parts of Galaxy S24 Series Devices

Galaxy S24

Removable Parts

Galaxy S24 Series devices have many removable parts. Being able to identify the parts and understand their functions will assist you in diagnostics and repair of the device.

The Parts Include:

- UB Display
- Frame
- Main Printed Board Assembly (PBA)
- Sub PBA
- Components
- Rear Assembly
- Battery
- Back Cover



UB Display

The UB Display includes the following:

- The Display Panel
- The Front Glass and Laminate



Front



Back

The Frame houses the following:

- Front Facing Camera
- Battery
- Millimeter Wave (mmWave) Modules (2)



Front



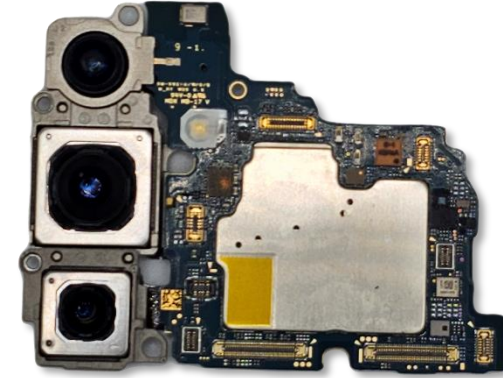
Back

Main PBA

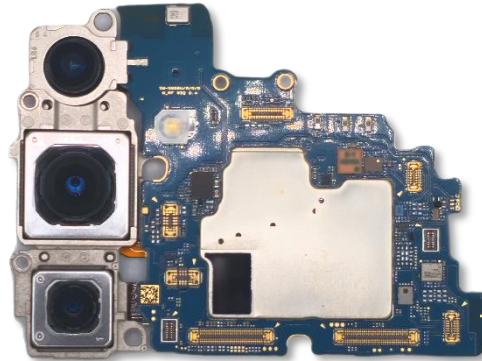
The Main PBA is the main board of the device.

It contains the most essential components of the device such as:

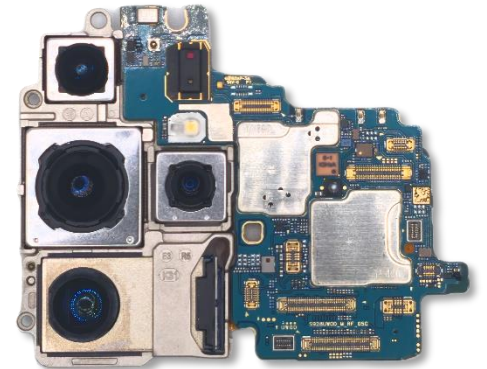
- Mobile Chipset
- Main Camera
- Built in Storage
- Sub Microphone



S24



S24+



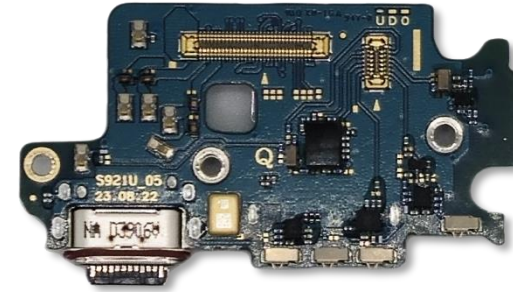
S24 Ultra

Sub PBA

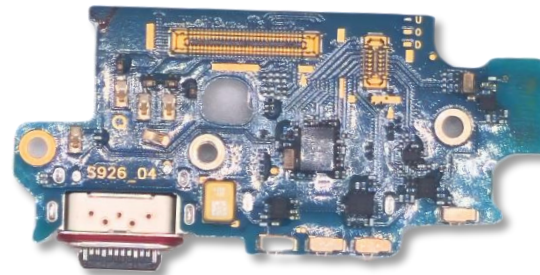
The Sub PBA is the secondary board of the device.

It contains other essential components of the device such as:

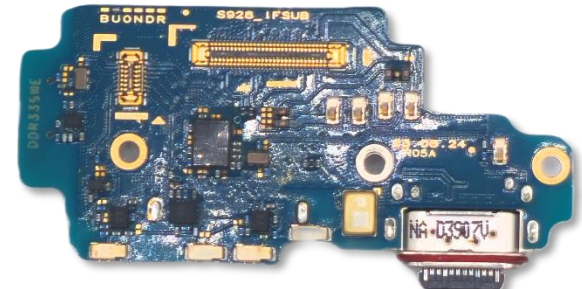
- Main Microphone
- USB Type-C Interface (I/F) Connector



S24



S24+



S24 Ultra

Components

There are a few smaller components on Galaxy S24 devices that can be removed.

These are:

- Main (Rear) Camera(s)
- Front Facing Camera (FFC)
- Flex Connectors
- mmWave Antennas



S24 & S24+
Main Cameras



S24 Ultra
Main Cameras



FFC



Flex Connectors



mmWave Antennas

Rear Assembly

The Rear Assembly rests between the Back Cover and circuitry boards. It can be broken down into three (3) pieces.

The top piece:

- Contains the Top Speaker

The middle and bottom piece:

- Contains the SUS Plate that covers Main PBA and the Near Field Communication (NFC) Pad that connects to the Main PBA

The bottom piece adheres to the NFC Pad and contains the bottom Speaker. For correct Speaker function, the gold circular pads must make proper contact with the pins on the Sub PBA.



Battery

The Battery is a Lithium-ion (Li-ion) cell and must be handled carefully. Improper removal can damage the cell, causing it to ignite and cause injury:

- Only hold the Battery from the center sides.
- Do not squeeze the Battery or use any unauthorized tools when handling it.
- Do not hold the Battery by its flex connector, as this can accidentally short the leads.



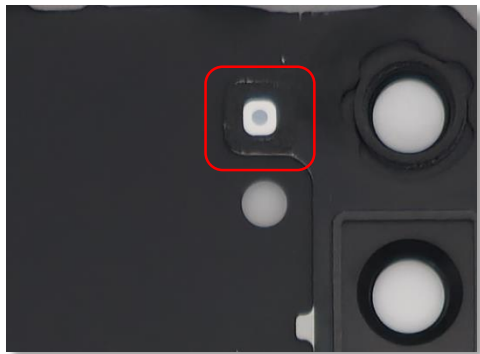
Caution: When handling the Battery, be careful not to puncture or damage it.

Back Cover

Galaxy S24 Series devices have a Back Cover that is bonded to the frame; it can only be removed using heat.

The Back Cover has double-sided tape located on the edges that must be replaced every time the Back Cover is removed.

On S24 & S24 +, there will also be a 3rd Mic tape that will also need to be replaced every time the Back Cover is removed. This tape could be on either the Back Cover or Rear Assembly.



Outer



Inner

Galaxy S24

Disassembly

Disassembly of Galaxy S24



Tools and Equipment

To ensure proper disassembly without damage to the device, use the proper tools and equipment:



Tweezers



Opening Pick



Electric Screwdriver



SIM Eject Tool



Ceramic Scissors



Roller Jig



99% Isopropyl Alcohol



Disassembly Stick



NOTE: If an Electric Screwdriver is not available, please use a Manual Torque Screwdriver.

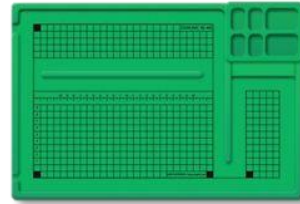


Tools and Equipment

To ensure proper disassembly without damage to the device, use the proper tools and equipment:



ESD Wrist Strap



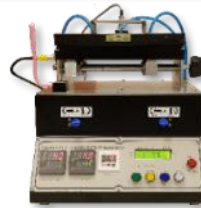
Anti-Static Mat



Anti-Static Gloves



Blue Suction



AOD



ESD Spatula

Steps of Disassembly

You will disassemble the device in the following order:

- Back Cover
- Rear Assembly
- Main PBA
- Main Camera
- Sub PBA
- mmWave Module Antennas
- Front Facing Camera
- UB Display Panel
- Battery



Electrostatic Discharge Precautions

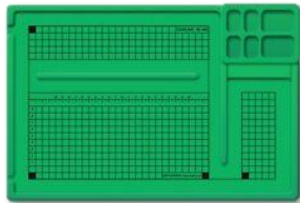
Before you begin disassembly, make sure that all ESD precautions are met.

This includes:

- Wearing an ESD Strap which has passed all required tests
- Wearing Anti-Static Gloves
- Working over an Anti-Static Mat



ESD Wrist Strap



Anti-Static Mat



Anti-Static Gloves



Swollen Battery Precautions

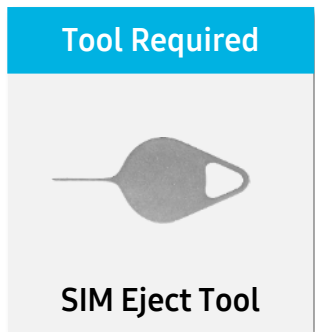
A swollen Battery may cause a device to bulge.

- Before disassembling the device, make sure that there are no signs of Battery swelling
- If the device has a swollen Battery, **DO NOT** heat the device
- Heating a device with a swollen Battery can cause further damage to the device and cause the Battery to ignite and cause injury
- In the event of a swollen Battery, use only 99% Isopropyl Alcohol to carefully separate and remove the Back Cover



Eject SIM Tray

To prevent damage to the Sub PBA, the SIM Tray must be removed before starting disassembly. The SIM Tray is located on the bottom of the device.



Samsung Care

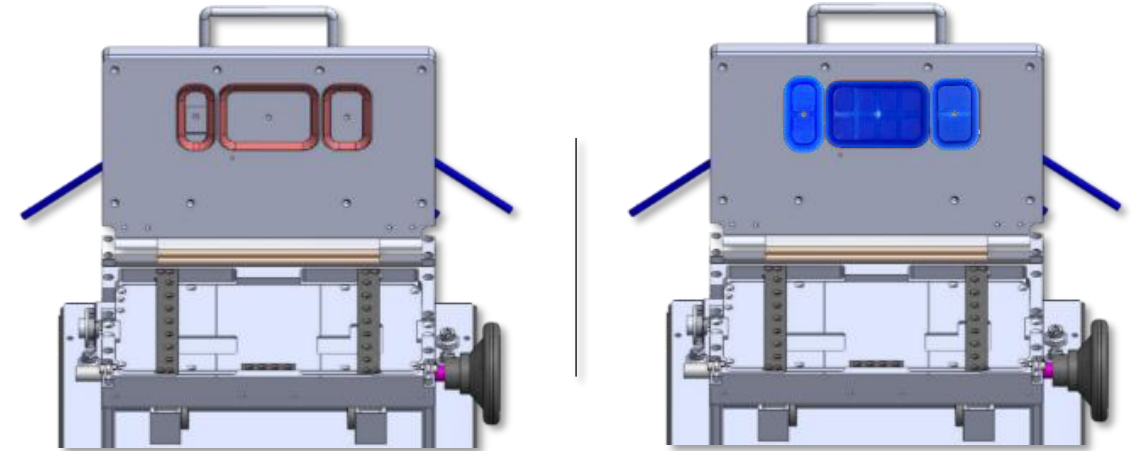


Replace the Orange Seals

To prevent damage to Back Cover, replace the orange seals with the blue seals on the AOD.

To replace the orange seals:

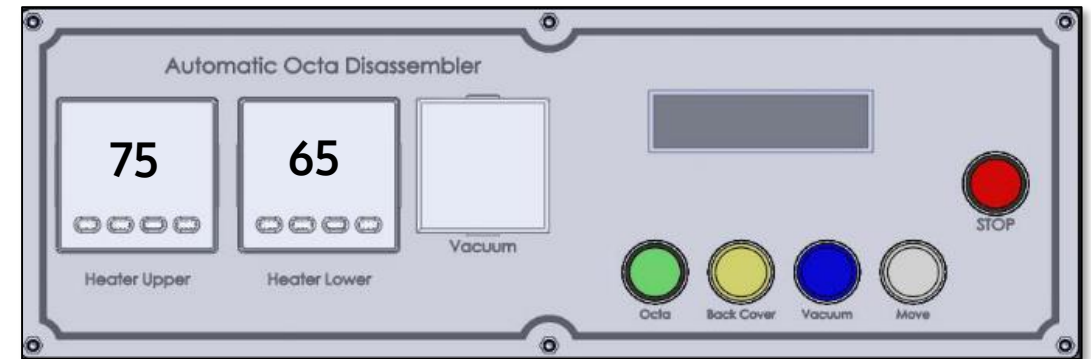
- Gently remove the orange seals by pulling them off the upper plate
- Align the new blue rubber seals and press down on the corners, making sure there are no cracks or tears in the seals
- Run your thumbs along to sides of the rubber seals to secure the seals in place



Configure the AOD

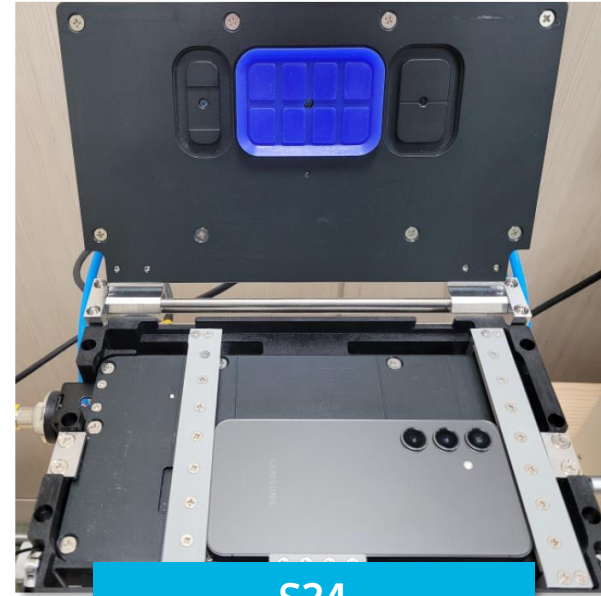
Set the AOD to the following temperatures to remove the Back Cover:

- Heat the upper to 75°C and the lower to 65°C for five (5) minutes
- The heating process loosens the adhesives that hold the Back Cover on the device

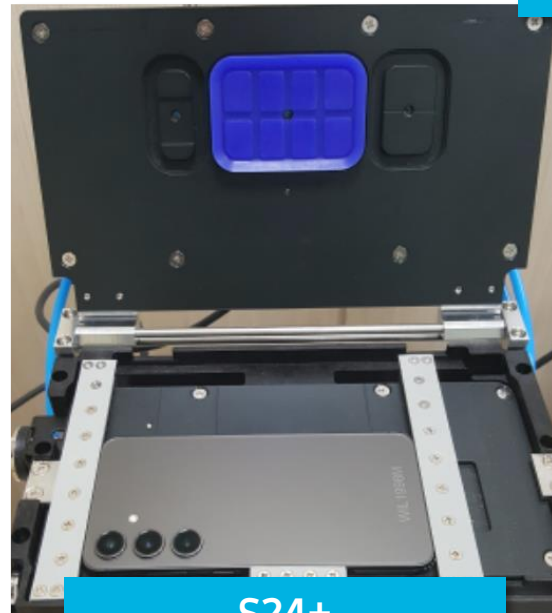


Device Placement

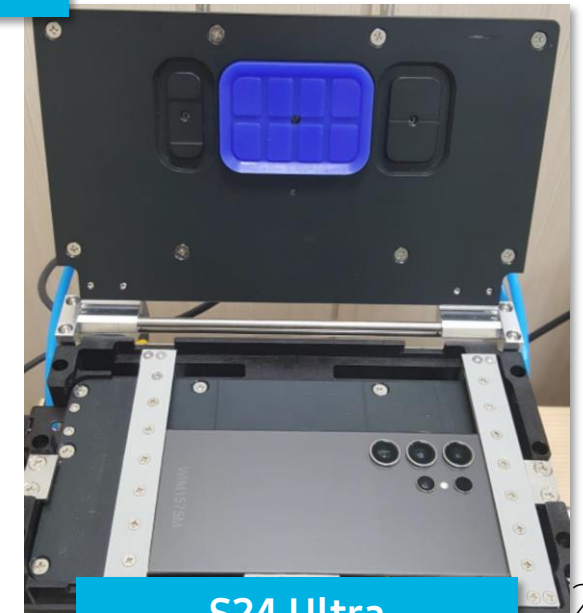
- Place the device face down in the AOD
- Align the device properly as shown depending on the model (See photos)
- Once aligned, lock the device in place by twisting the Torque Wheel, then lower the upper plate



S24



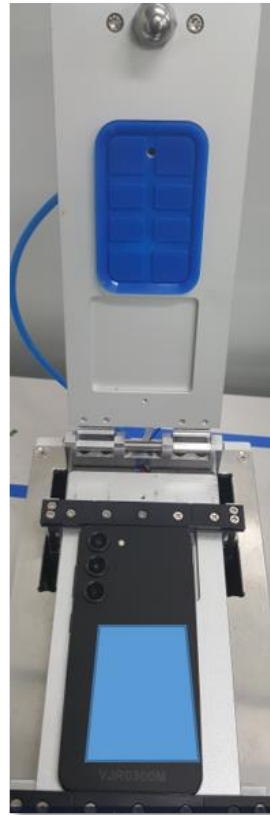
S24+



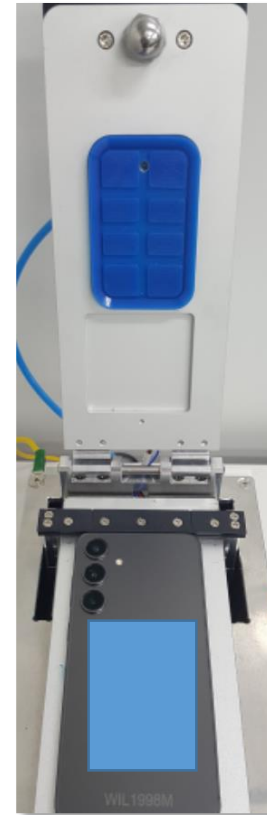
S24 Ultra

Device Placement – AOD Mini

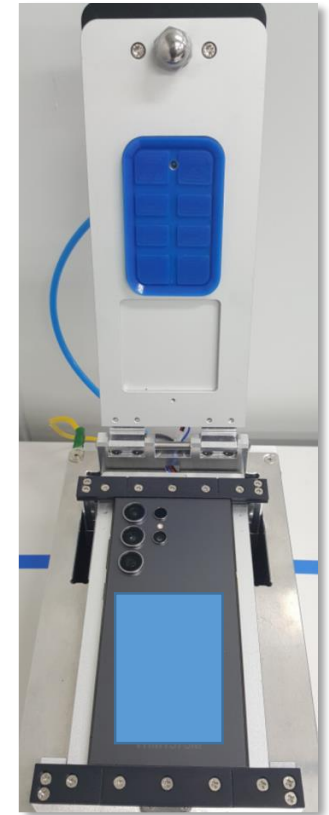
See the photos below for proper placement in the AOD Mini.
Temperatures and heating times are the same as on the AOD.



S24



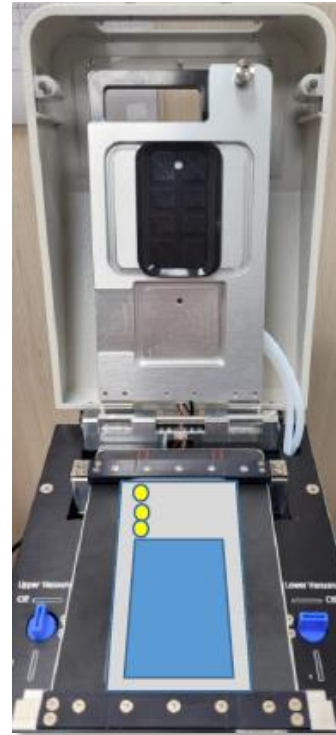
S24+



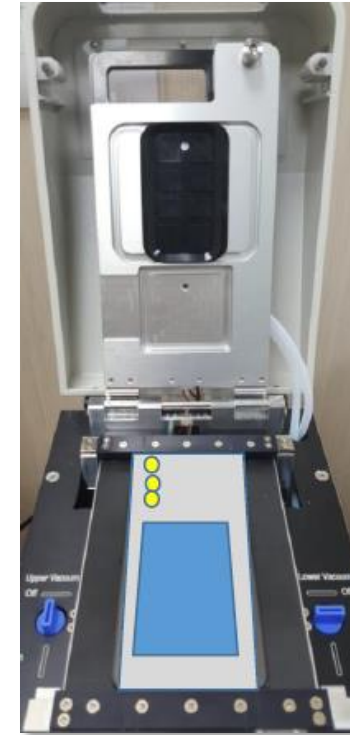
S24 Ultra

Device Placement – AOD Plus

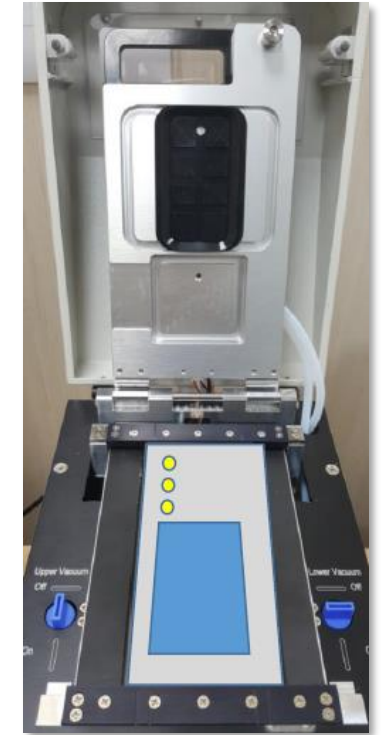
See the photos below for proper placement in the AOD Plus.
Temperatures and heating times are the same as on the AOD.



S24



S24+

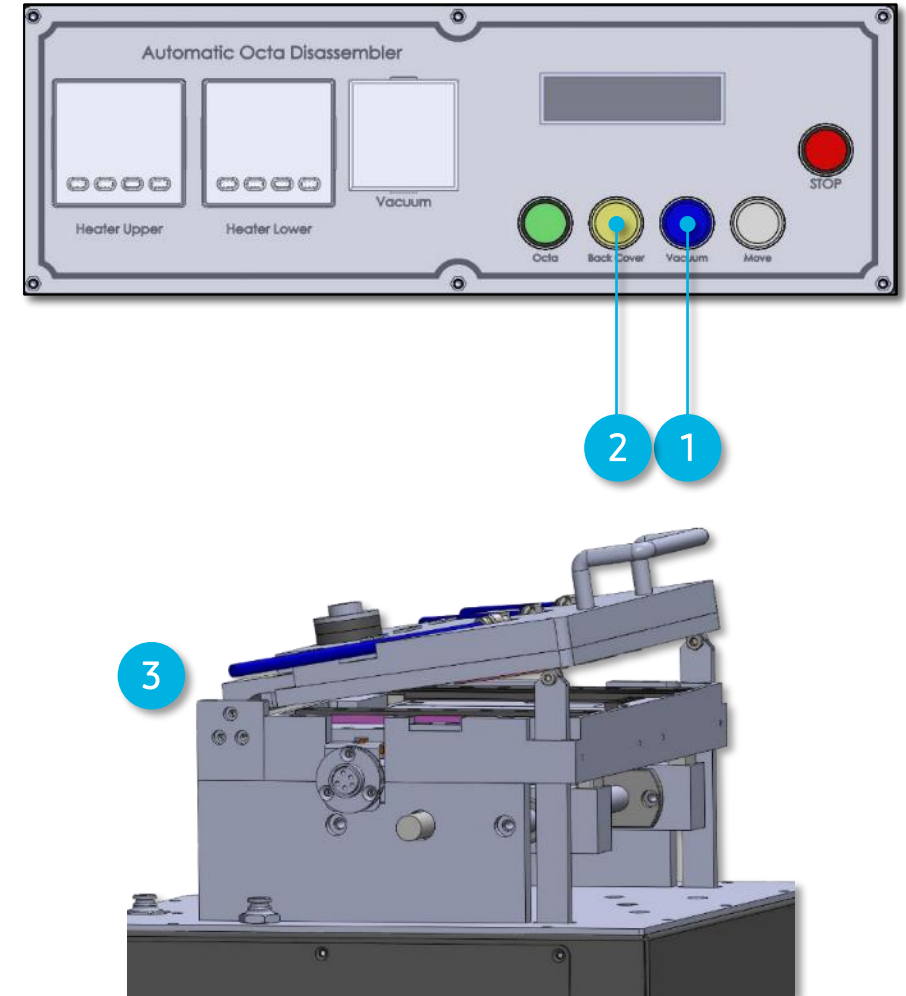


S24 Ultra

Remove the Back Cover

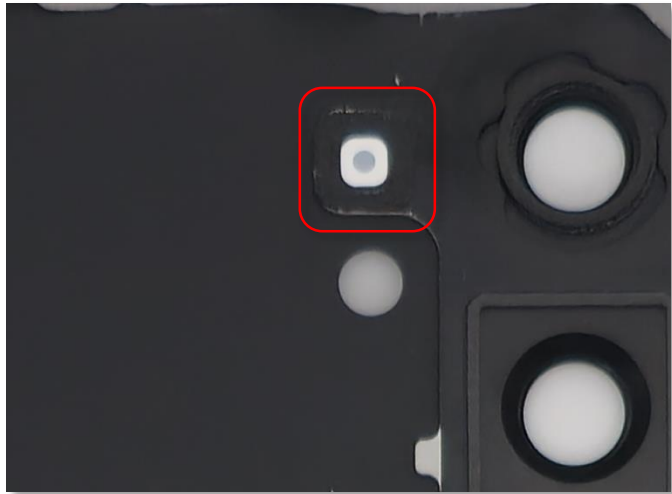
1. Press the Vacuum button to create suction
2. Press Back Glass to begin the heating process
3. Upon reaching desired temperature, the upper plate will begin to rise, lifting the Back Cover from the device

Use the ESD Spatula to assist with the lifting and disconnection process.



Remove the Back Cover Tapes

Galaxy S24 Series devices have double-sided tape that needs to be removed and replaced. These tapes are located around the edges, and also on the 3rd Mic of the Back Cover or Rear Case for S24 and S24+.



Important Back Cover Handling Tips

As soon as the Back Cover is removed, immediately peel the double-sided tape by hand. Do not wait for the Back Cover to cool down to remove the tape.

When removing the double-sided tape:

DO NOT use metal tools when removing tape or tape residue.

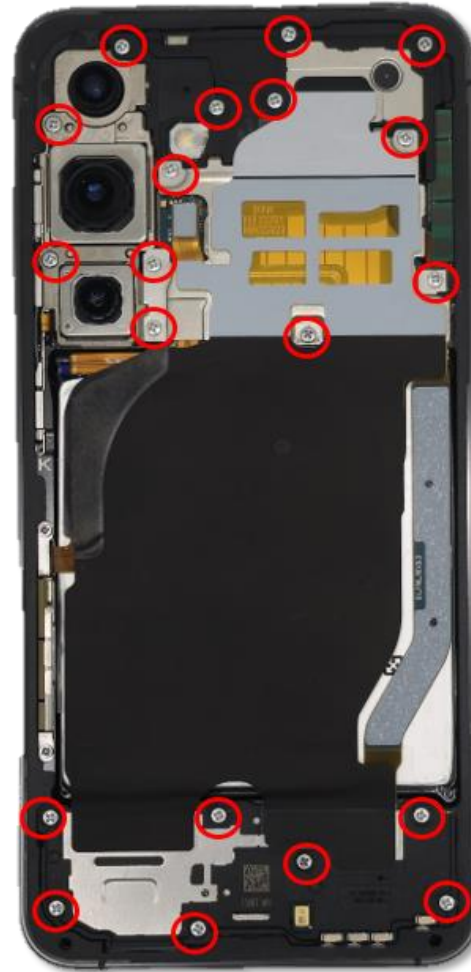
For hard to remove tape, please reheat the Back Cover and use the Roller to remove any remaining residue.



Remove the Screws

Using the Screwdriver, remove the screws from the Rear Assembly.

- a) S24 and S24+ (Rear 18ea, Cam BRK 2ea)
- b) S24 Ultra (Rear 16ea, Cam BRK 1ea, black)



S24/S24+



S24 Ultra

Remove the Rear Assembly

To safely remove the Rear Assembly, begin by using the Opening Pick to disconnect the **NFC flex connector** located on the top piece:

- Once disconnected, use the Plastic Tipped Tweezers to disconnect the bottom of the Rear Assembly
- Use the **disassembly point** located on the bottom left (S24 and S24+) bottom right for S24 Ultra; an engraved arrow will point towards the disassembly point
- Insert the Tweezers and twist gently towards you; allow the bottom piece to completely disconnect all the way around the edges
- With the bottom piece disconnected, lift the SUS Plate towards you and remove the NFC Pad, along with the bottom piece, and place it to the side
- Using Opening Pick disconnect the Battery connector then top FRC cable from the Main PBA
- Remove the top piece by gently lifting it by hand away from the bracket
- The internals of the device should now be exposed



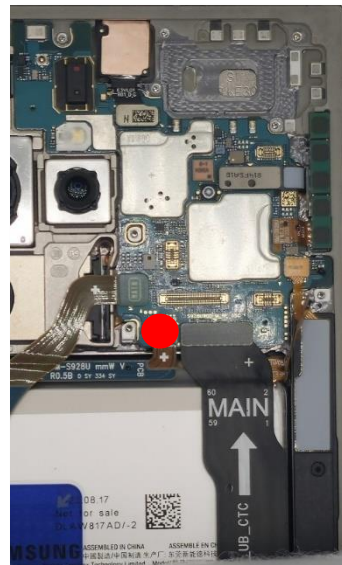
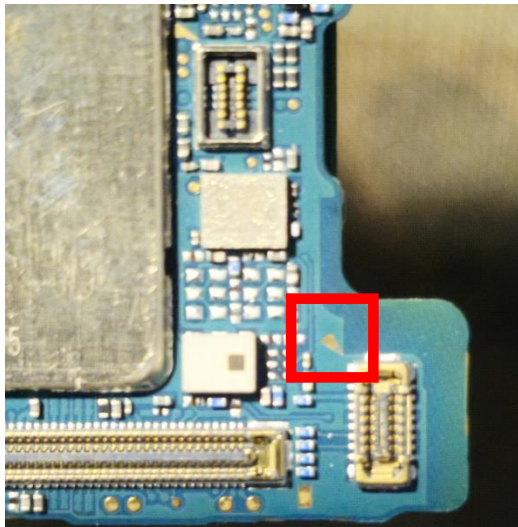
S24/S24 +



S24 Ultra

Disconnect the Flex Connectors cont.

- a) S24 and S24+: Use the Opening Pick to disconnect (6) connectors from the Main PBA using the correct entry point.
- b) S24 Ultra: Use the Opening Pick to disconnect (8) connectors from the Main PBA using the correct entry point by finding the arrows on the Main PBA. S24 Ultra has a hidden connector see below picture for arrow and hidden flex cable and arrows identifying entry point.



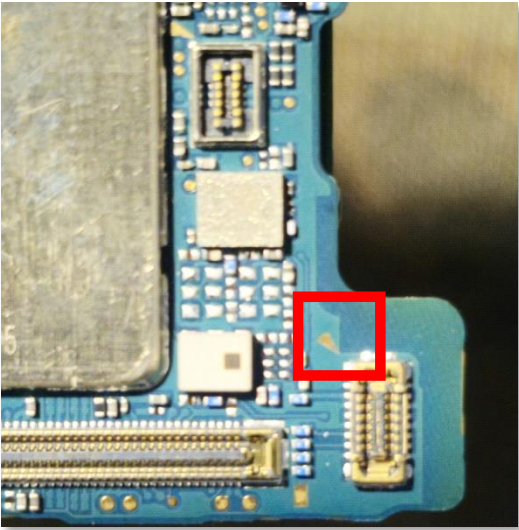
S24/S24+



S24 Ultra

Disconnect the Flex Connectors cont.

There are a total of 3 connectors that need be disconnected from the bottom of the assembly. Using the Opening Pick, disconnect 2 connectors from the SUB PBA and disconnect the UB Connector. Use the arrows to identify the correct entry points.



S24/S24+

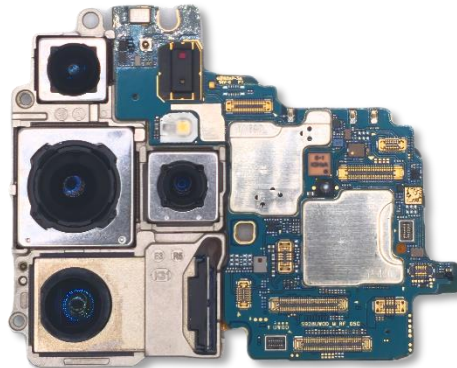
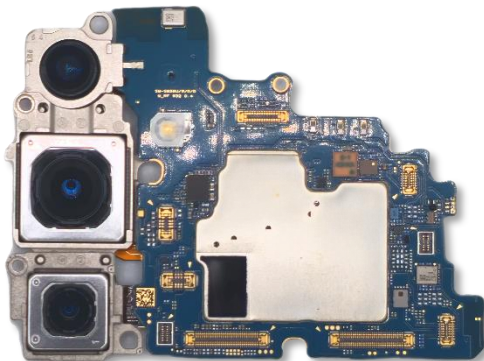


S24 Ultra

Remove the Main PBA

With nothing connected to the Main PBA, the Main PBA can now be removed.

- Using the Disassembly Stick, lift the Main PBA from the top right corner and remove it, making sure that any flex cables are out of the way when removing the Main PBA
- Take extra care when removing the Main PBA, since the top Rear Camera is connected to the Main PBA; once removed, place the Main PBA to the side



Samsung Care



S24/S24+

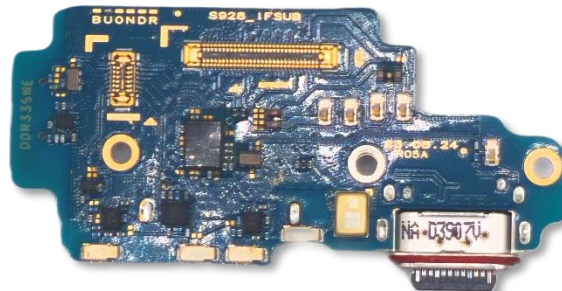
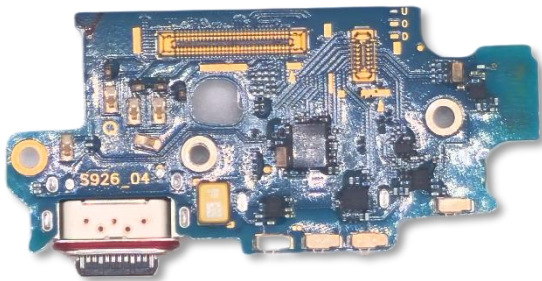


S24 Ultra

Remove the Sub PBA

To remove the Sub PBA, remove three (3) screws using the Screwdriver:

- Once the screws have been removed, use the Disassembly Stick to lift the Sub PBA, and gently lift up from the left and right sides towards you
- Resistance will be felt around the interface port; **DO NOT** lift at a 90-degree angle, because this could crack the board; gently wiggle the Sub PBA instead to remove the interface port so that the Sub PBA will come out freely
- Once removed, place it to the side; the inner side of the bracket should now be exposed



Samsung Care



S24/S24+



S24 Ultra

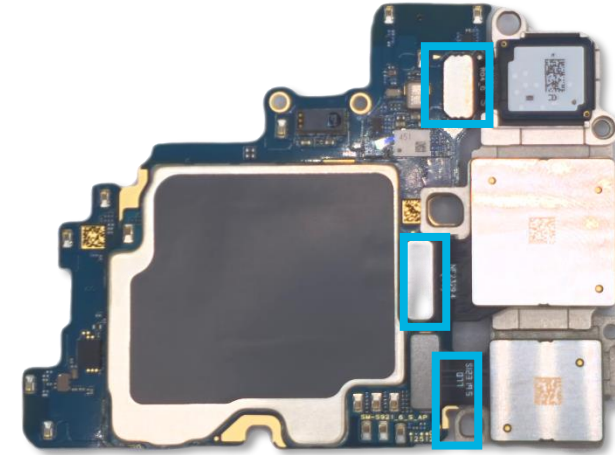
37

Disconnect the Camera from the Main PBA

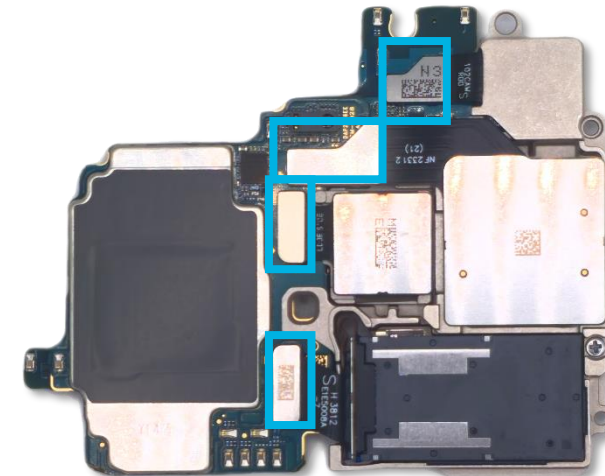
To remove the Main Camera from the Main PBA, use the Opening Pick to disconnect the flex connectors.

- a) Galaxy S24 and S24+ have (3) flex connectors
- b) Galaxy S24 Ultra has (4) flex connectors

Once disconnected, place the Cameras to the side **facing up** to prevent damage to the lens.



S24/S24+



S24 Ultra

Remove the mmWave Antennas

There are two (2) mmWave Antenna modules attached to the bracket.

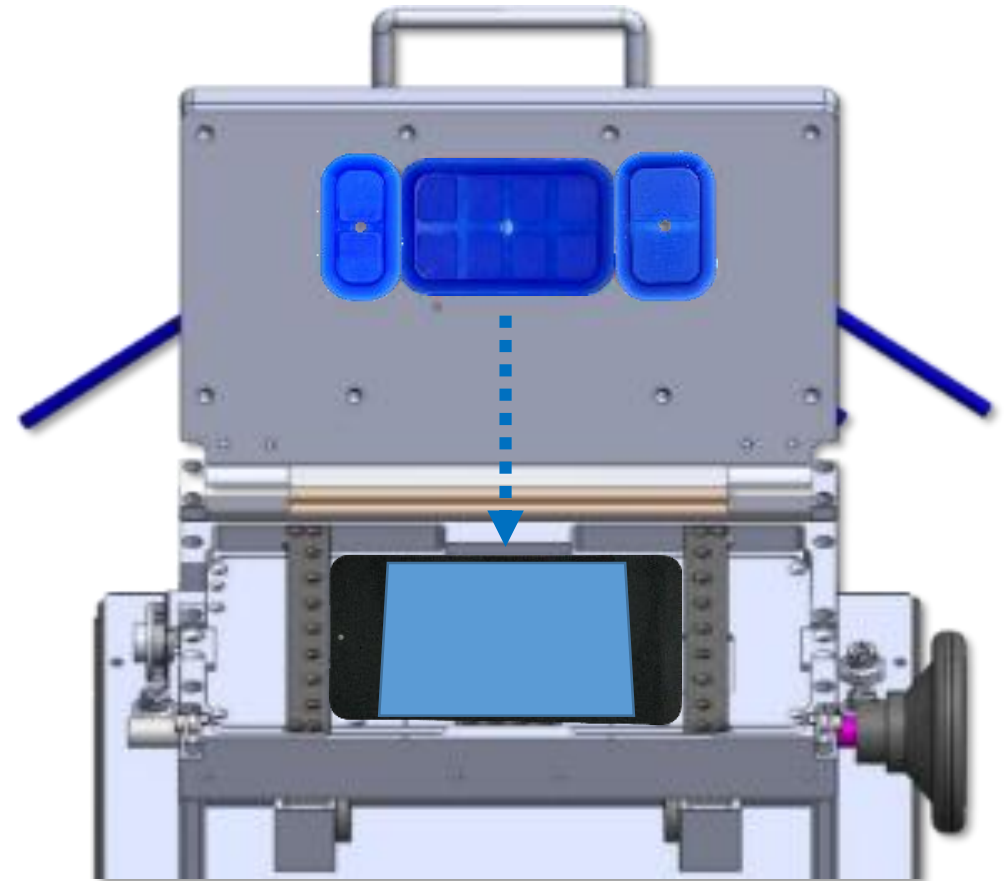
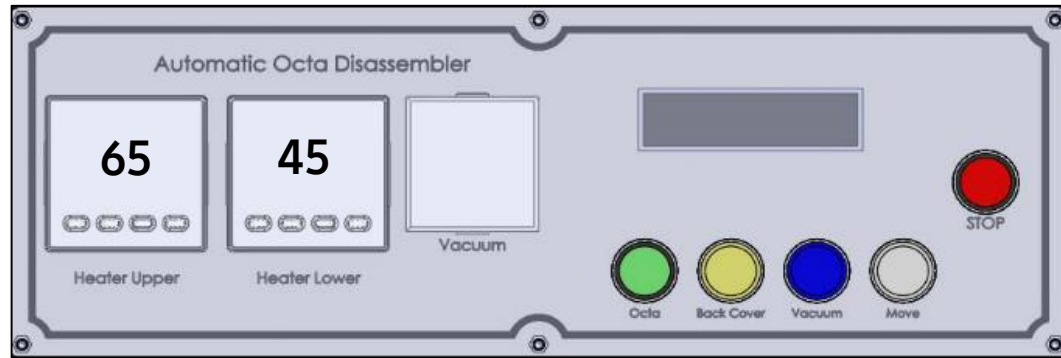
- The Antenna located at the left is held down by two (2) silver screws; the other Antenna has no screws
- Use the Screwdriver to remove the two (2) screws on the left module; the Antennas are adhered to the bracket, and will require some heat to loosen the tapes
- Use a hot plate to heat the device and loosen the adhesive for a few minutes, then use Plastic Tipped Tweezers to remove the Antennas
- To avoid damage during disassembly, lift from the opposite end of the Antenna connectors
- Once removed, place the Antennas to the side



Remove the UB

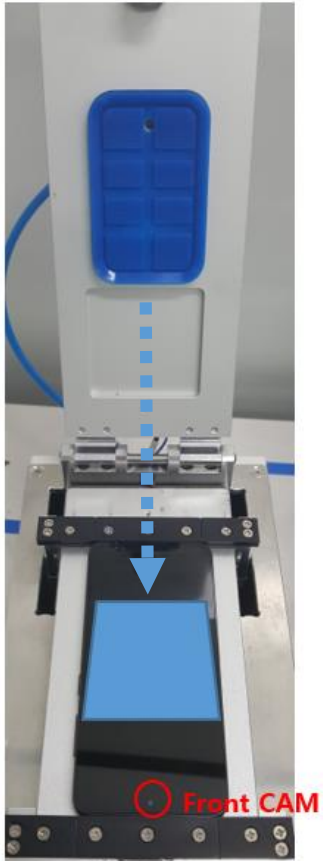
To remove the UB, we must configure the AOD.

- Ensure the AOD is free of dirt, debris, or glass particles; clean the AOD using an ESD brush and/or air blower
- Ensure all 3 blue vacuum seals are properly inserted into the AOD and in good condition, with no tears or cracks
- Set the temperature for the upper to 65°C and the lower to 45°C for five (5) minutes

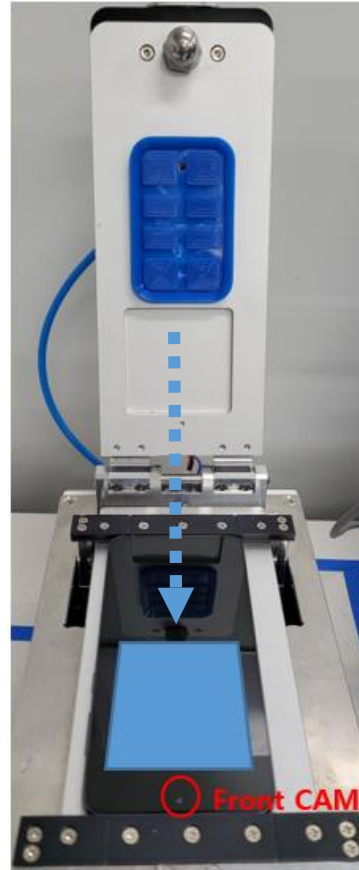


Remove the UB - AOD Mini

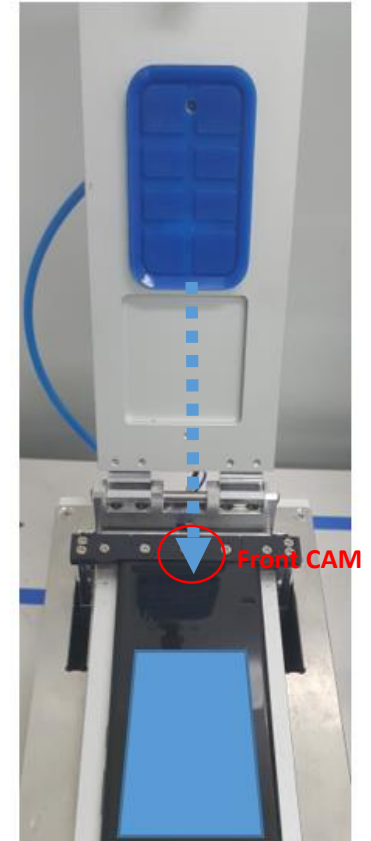
See the pictures below for AOD Mini device placement for UB Removal.
Temperatures and heating times are same as on the AOD.



S24



S24+

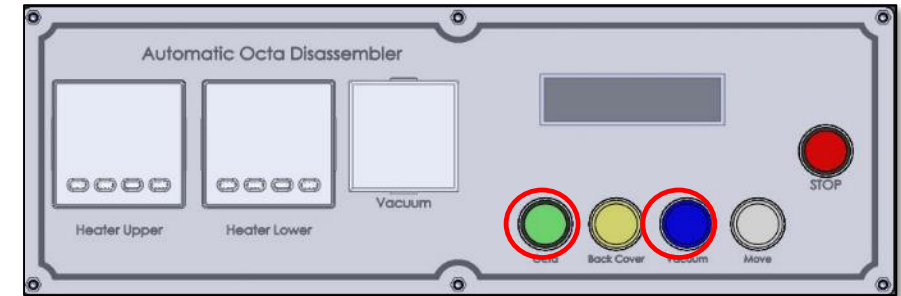


S24 Ultra

Remove the UB

To remove the UB:

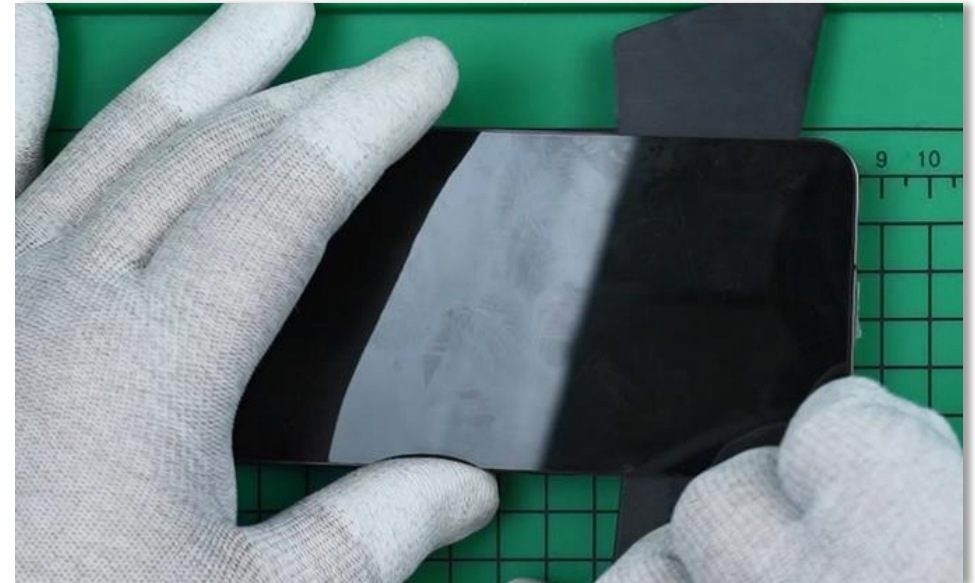
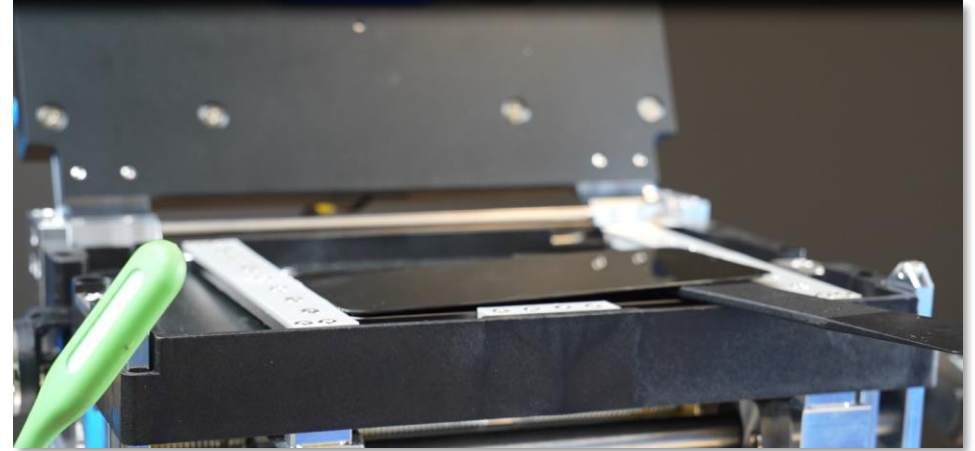
- Place the device in the AOD with the Screen facing up, and ensure the device is aligned with all 3 vacuums
- Turn the left and right vacuums on by turning both knobs to the vertical position
- Lock the device into place
- Close the AOD top plate
- Press Vacuum and OCTA



Remove the UB

To remove the UB:

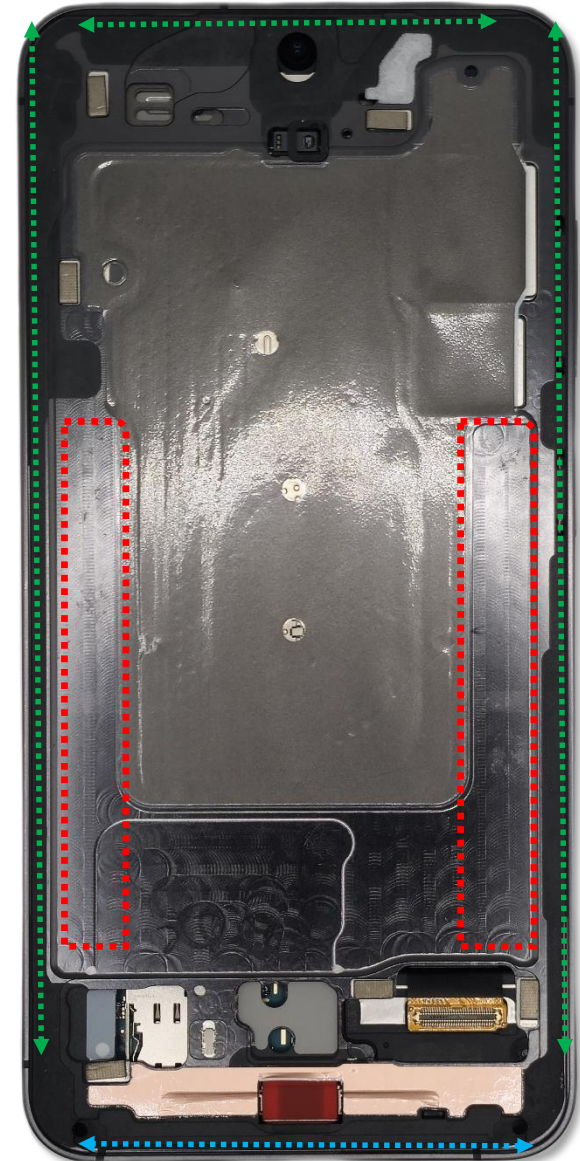
- Once preheating completes, the AOD will begin lifting the UB
- Remove device from AOD and let cool for 1 minute on the ESD Mat
- After 1 minute, carefully lift the UB from the frame with your hands



Remove the UB Tapes

When replacing the UB, it is only necessary to remove the tapes and tape residue from the frame since the used UB will be discarded.

- Remove Outer Tape, middle, bonding tape and tape residue from the frame
- If needed, you can use a Roller and 99% Isopropyl Alcohol on tape residue that is hard to remove



Remove the Cured in Place Gasket (CIPG)

Remove the old CIPG from 2 holes on the frame.

To remove the old CIPG:

- Insert the SIM Eject Tool into the holes on the back of the frame to push out the old CIPG



Remove the Battery

If the Battery needs to be replaced, proper handling of the Battery is required.

- Batteries are NOT to be reused, and must be discarded as outlined in the Standard Operating Procedures (SOP)
- To remove the Battery, pull the blue tab up from the Battery
- Pull the blue tab at a 90° angle to release the Battery from the frame
- Remove the Battery tape and tape residue



Prepare the Battery for Disposal

Using the Ceramic Scissors, cut the lead from the Battery and return it to Samsung per U-Class procedures.



The device has now been disassembled

We have covered the disassembly process of Galaxy S24 Series devices. At this point, all removable components have been removed.

Keep in mind:

- In a repair scenario, only remove as much as required for the repair
- With the device disassembled, you can now move on to device assembly
- Follow proper process and tool usage to avoid damage



Galaxy S24

Assembly

Assembly of Galaxy S24 Series Devices



Assembly of Galaxy S24 Devices

Putting it back together

In this section we will review the assembly of Galaxy S24 Series devices.

This section will cover

- The tools and equipment needed
- The steps of assembly

How does this help me?

With this knowledge, you will be able to completely assemble Galaxy S24 Series devices.



Tools and Equipment

To ensure proper assembly without damage to the device, use the proper tools and equipment:



Tweezers



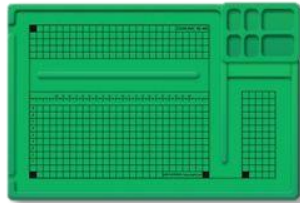
Disassembly Stick



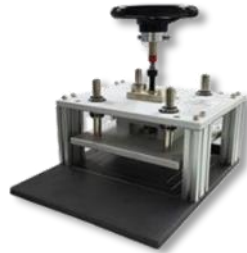
Screwdriver



Anti-Static gloves



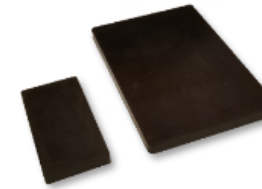
Anti-Static Mat



Press Jig



Universal Device
Press Pads



Battery Pads

Tools and Equipment for UB

To ensure proper assembly without damage to the device, use the proper tools and equipment:



Tape Attach Jig



CIPG Dispense Jig



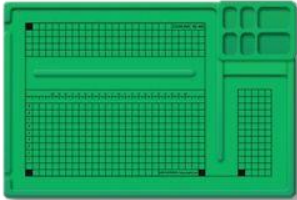
Piston for 3cc syringe



21G needle



CIPG



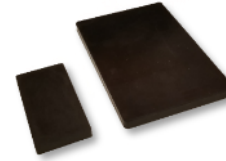
Anti-Static Mat



UV Lamps



Device Press Pads



Battery Pads

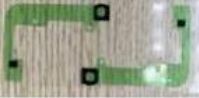


Low temp chamber for storing CIPG



Press Jig

Rework Kit for S24

		Quantity	SVC Code
Area		Global	
		GH82-33293A	
Back Glass Outside Tape		1	GH81-24811a
3 rd Mic hole Tape		1	GH02-255752A
Air Vent Sealing Tape		1	GH02-07406A
Screws for Rear (18) Camera BRK (2) & Sub-PBA (3)		23	6001-003428
mmWave Screws		2	6001-003487

Rework Kit for S24+

		Quantity	SVC Code
Area		Global	
		GH82-33338A	
Back Glass Outside Tape		1	GH81-24787A
3 rd Mic hole Tape		1	GH02-25626A
Air Vent Sealing Tape		1	GH02-07406A
Screws for Rear (18) Camera BRK (2) & Sub-PBA (3)		23	6001-003428
mmWave Screws		2	6001-003487

Rework Kit for S24 Ultra

		Quantity	SVC Code
Area		Global	
		GH82-33392A	
Back Glass Outside Tape		1	GH81-24823A
Air Vent Sealing Tape		1	GH02-07406A
Screws for Rear (16), Sub PBA (3), CAM (1)		20	6001-003428
Screws for CAM Front	M1.4/ L3.5(Black)	1	6001-003489
Screws for mmWave		2	6001-003487

UB Rework Kit for S24

S24				Quantity	SVC Code
Area				Global	
				GH82-33295A	
UB Outer Tape				1	GH81-24811A
UB Bonding Tape				1	GH81-24813A
UB Mid Tape				1	GH02-25530A

UB Rework Kit for S24+

S24+		Quantity	SVC Code
Area		Global	
		GH82-33522A	
UB Outer Tape		1	GH81-24780A
UB Bonding Tape		1	GH81-24781A
UB Mid Tape		1	GH02-25615A

UB Rework Kit for S24 Ultra

S24 Ultra		Quantity	SVC Code
Area		Global	
		GH82-33544A	
UB Outer Tape		1	GH81-23137A
UB Bonding Tape		1	GH81-23136A
UB Mid Tape		1	GH02-24489A

Steps of Assembly

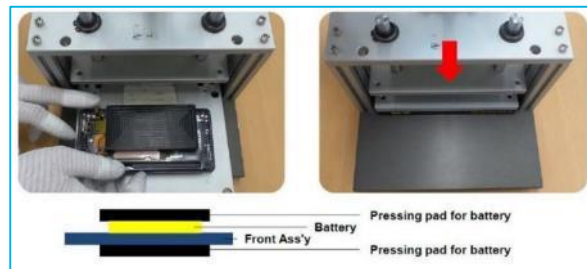
You will assemble the device in the following order:

- Battery
- UB
- mmWave Modules
- Parts on the Main PBA
- Main Camera
- Main PBA
- Sub PBA
- Rear Assembly
- Back Cover



Install the Battery

- Remove the film from the new Battery and attach it to the Frame
- Make sure to check the markings to ensure that the Battery being used is for the correct country
- If this is just a Battery replacement, you will need to follow standard Battery pressing procedures
- Place the device face down on the large Battery Press Pad
- Place the smaller Battery Press Pad on top of the Battery
- Insert the device in the Press Jig and spin the Torque Wheel until it torques
- Wait five (5) seconds before unspinning and removing the device



Samsung Care



US/Japan

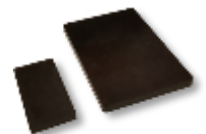


For all other countries

※ Only for S24 European battery, 'EU' is written on the battery since a battery validation chip is only embedded in S24 European batteries. Therefore, S24 batteries are separated into **European** and **non-European** countries



Press Jig



Battery Press Pads

Attach UB Tapes

- Place the metal frame onto the Tape Attachment Jig, and ensure it's all the way at the top left
- Adjust the magnet fixture onto the bottom right corner of the metal frame so that it does not move
- Align the Mid UB Tapes onto the metal frame, but do not remove the film



Attach UB Tapes

To attach the Outer Tape:

- Align the guide holes on the Outer Tape with the pins
- Once the Outer Tape is laid down, bend the 4 top guide holes up at 90°
- Gently press the Tape with a Disassembly Stick to ensure the Tape is in place, but do not remove the green film yet
- **Do not remove the film from the Outer Tape**



Attach UB Tapes

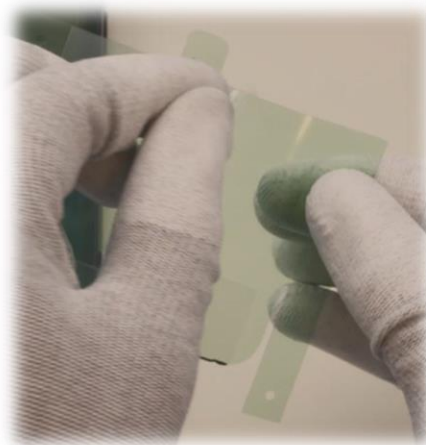
To attach the Bonding Tape:

1. Release the bottom Tape liner step by step
(see pictures for steps)
2. Align the Tape with the guide holes and push your finger at the top of the film, where the adhesive is, to hold it in place
3. Remove the transparent film from underneath
 - Gently press down on the Tape with a Disassembly Stick
 - Do not remove the film from Bonding Tape yet

NOTE: Before pulling up the film, you need to check the alignment using an Otoscope or Dino-lite. If it is folded or tilted, it should be replaced with a new Bonding Tape.

Samsung Care

1.



2.



3.



Attach UB Tapes

Release the films in the following order:

1. Bonding Tape
2. Outer Tape
3. UB Mid Tape



NOTE: It is imperative that you do not release the films early, because dust and dirt could get on the Tapes prior to installing the UB, causing a poor bond.

Assemble the UB

- Remove the transparent film and black plastic cover from the new UB
- Remove the Dummy FPCB from the new UB
- Align the new UB onto the metal frame
- Press around the edges carefully to ensure that the new UB is secured in place

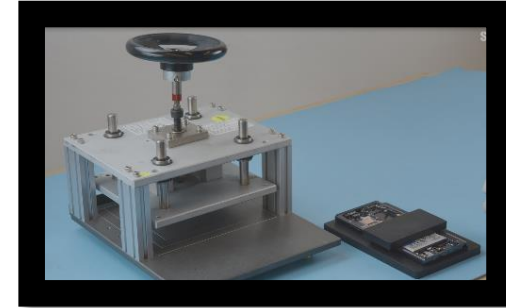


Press the UB

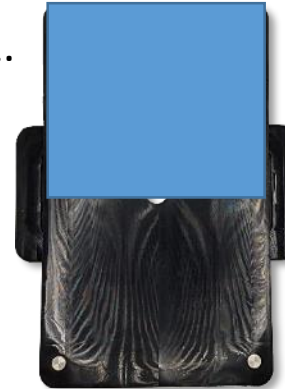
To properly press the UB follow the below directions:

1. Place the device in the Universal Battery Press Pads and press the device for 5 seconds at 1N
2. Place the device in the Device Specific Press Pads and press top half for 30 seconds at 1N
3. Press the bottom half for 30 seconds at 1N
4. Press entire pad for 30 seconds at 1N

1.



2.



3.



4.



Galaxy S24

Applying CIPG Without a Jig

Assembly Cont.



Assemble the CIPG Syringe

To properly apply CIPG, we first have to assemble the syringe; follow these steps:

- Remove the CIPG from the silver packaging
- Remove both blue caps from the CIPG container
- Attach a 21G needle to the CIPG container
- Insert the piston into the CIPG container
- Before using, squeeze out any air until there is a drop of liquid, and then clean the needle



NOTE: CIPG must be stored in the freezer, and must be thawed out for 1 hour prior to use.

Samsung Care



Remove a blue protect cap of CIPG syringe



Remove an another protect cap



Combine the needle with a syringe to fix it.



Combine the piston into syringe.



Apply the CIPG

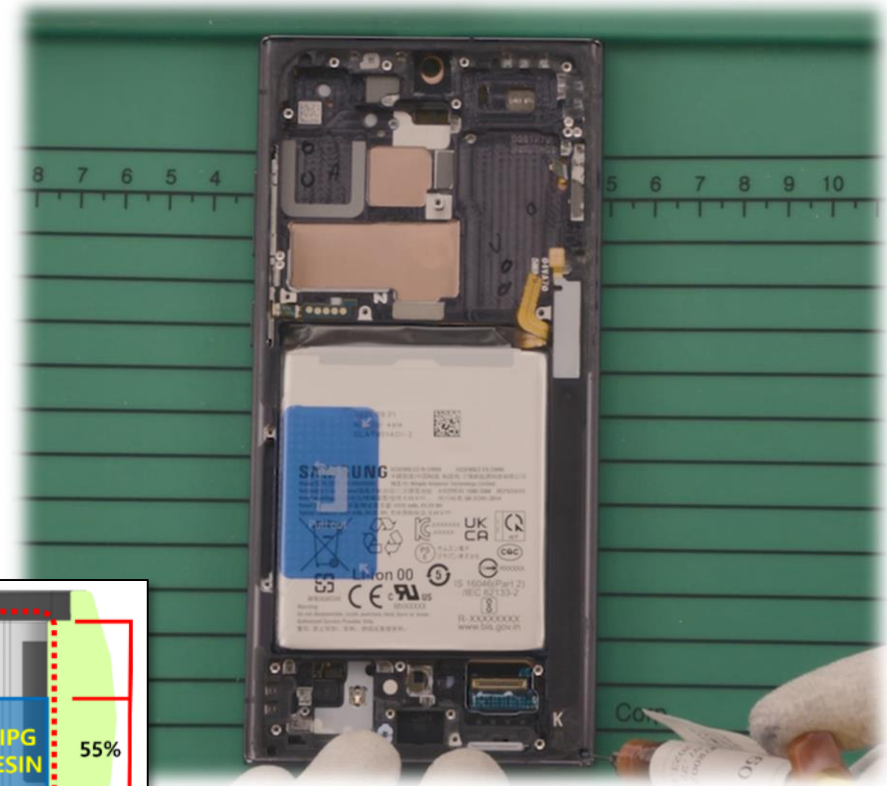
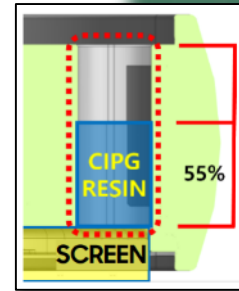
To properly apply the CIPG :

- Place the Needle into the hole on the frame and fill the hole to 55%; make sure to be gentle when inserting the needle so that you do not damage the new UB
- Move to the second hole and fill it to 55%
- After both holes are filled with CIPG, tap the bottom of the device for 1 minute to release any air bubbles



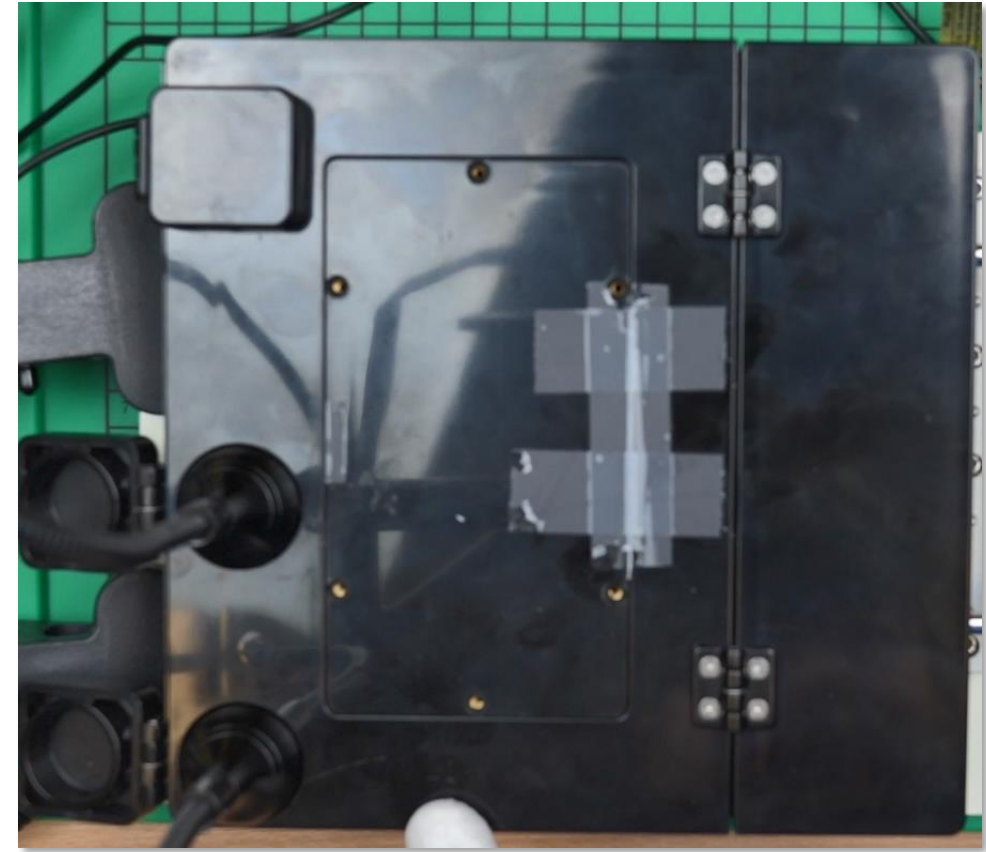
NOTE: CIPG must be stored in the freezer, and must be thawed out for 1 hour prior to use.

Samsung Care



Cure the CIPG

- To cure the CIPG, align the device into UV Curing Jig
- Make sure that the lamps are covering the holes completely and making contact with the frame
- Turn on both lamps and let the CIPG cure for **5 minutes**

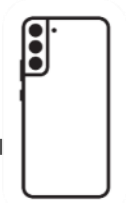


NOTE: If you fill more than 55%, cure the resin for an additional 6 minutes.

Galaxy S24

Applying CIPG With a Jig

Assembly Cont.



Assemble the Dispensing Jig

Follow these steps to properly assemble the Dispensing Jig:

1. Remove 1 protective cap
2. Combine the knob into the syringe
3. Remove 2nd protective cap
4. Install 21G needle
5. Before using, turn the knob to squeeze out air and a drop of liquid, then clean the needle
6. Combine the Syringe into the Jig Body
7. Turn the front knob to secure the syringe
8. Clean the needle



Remove a protect cap



Combine the knob into syringe.



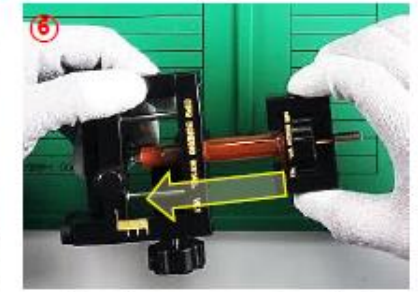
Remove a protect cap



Insert a needle and turn it to fix.



Turn the knob, and squeeze a drop of liquid. And clean the end of a needle.



Combine the syringe into the jig body.



Turn the front knob to fix.



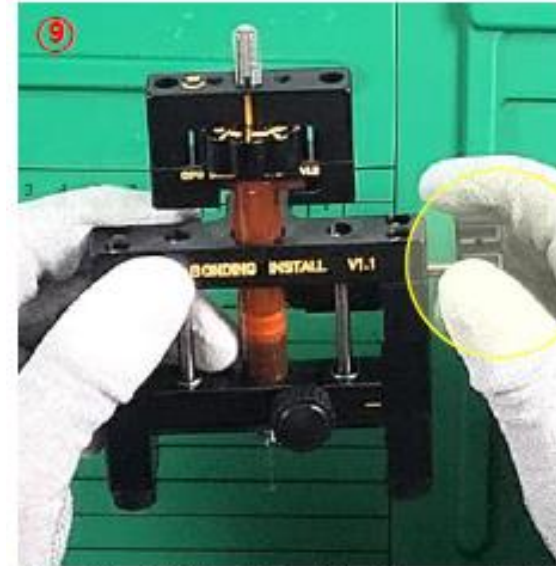
Clean the end of a needle.

Apply the CIPG with Dispensing Jig

Continue to follow these steps to properly apply CIPG:

9. Turn the right knob to adjust the needle to the height needed
10. Place the needle over each hole and turn the knob counterclockwise to fill; see the chart to determine how many turns/steps are needed to properly fill the holes:

	Needle Height (mm)	CIPG Quantity (# of turns)
S24	1.6	4
S24+	1.6	4
S24 Ultra	2.1	5

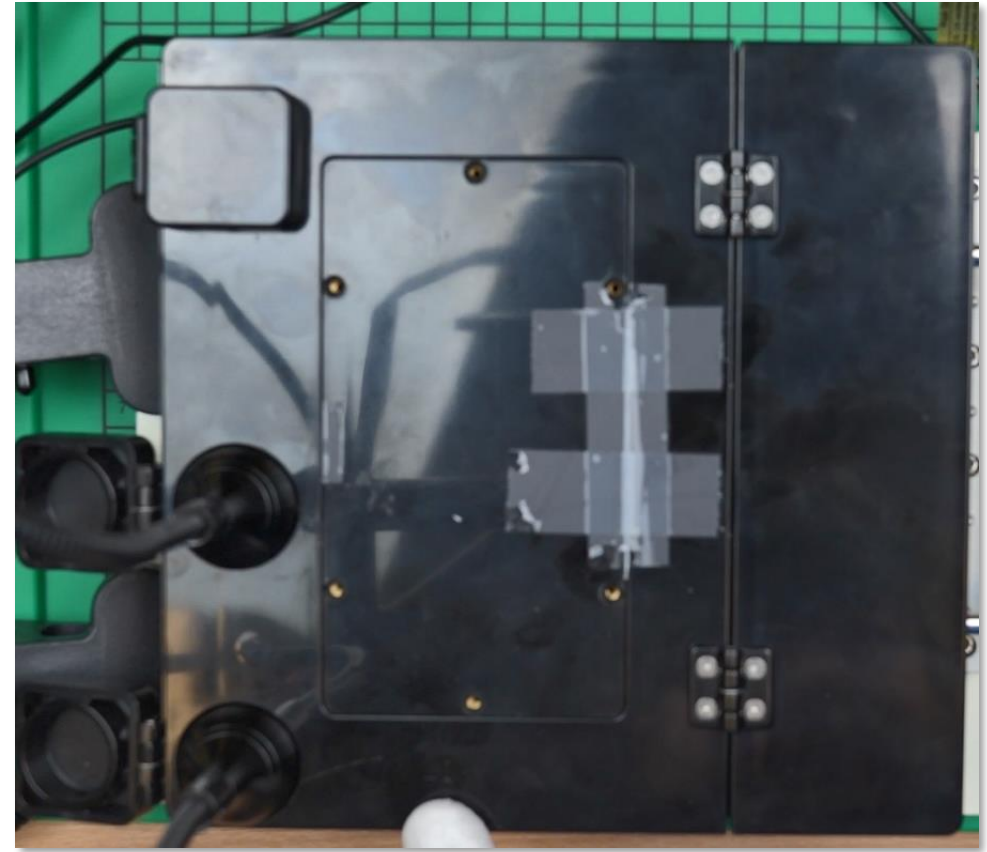


Turn the right knob to adjust the needle height. The needle height(depth) should be set at a different value by model.



Cure the CIPG

- To cure the CIPG, align the device into UV Curing Jig
- Make sure that the lamps are covering the holes completely and making contact with the frame
- Turn on both lamps and let the CIPG cure for **5 minutes**



NOTE: If you fill more than 55%, cure the resin for an additional 6 minutes.

Install the mmWave Module Antennas

- Install the two (2) Modules back into the Front Assembly
- Insert two (2) silver screws into the left Module

Torque Force: (0.9 Kgf·cm± 7%)

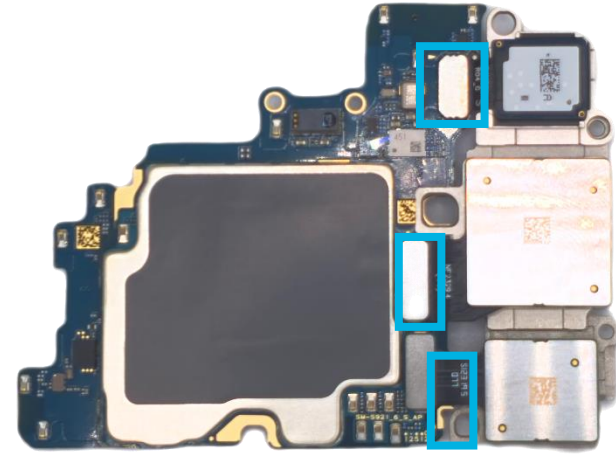


Install the Main Camera

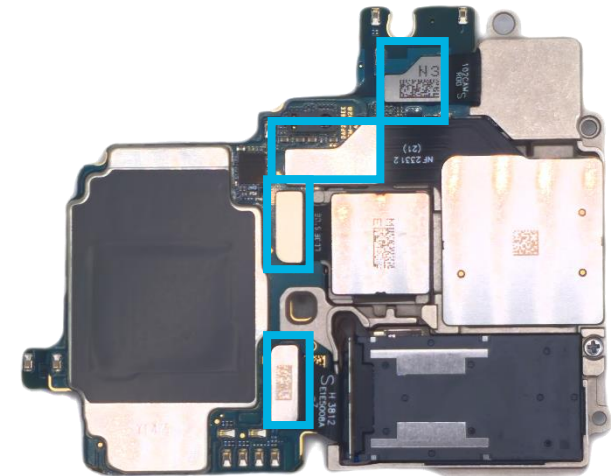
Align the Camera with the Main PBA **without touching the lens** and connect the flex connectors:

a) S24 and S24+ have (3) flex connectors

b) S24 Ultra has (4) flex connectors



S24/S24+



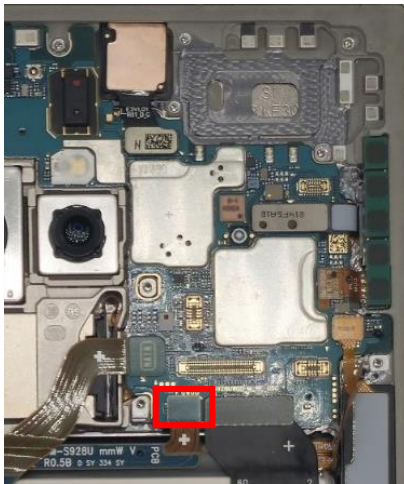
S24 Ultra

Install the Main And Sub PBA

- Align the Main PBA with the bracket; make sure to move the flex cables out of the way to ensure that the PBA lays flush (flat) in place
- Align the Sub PBA with the bracket and insert it **starting with the interface port**; make sure the Sub PBA is secured tightly
- After inserting the Main PBA and Sub PBA, use a Screwdriver to insert three (3) Sub PBA screws into the Sub PBA

Torque Force:(1.2 Kgf·cm± 7%)

- Once the screws are in, begin carefully reconnecting all the flex connectors; **do not connect the battery at this time**



Samsung Care

S24 Ultra mmWave
Connector



S24/S24+



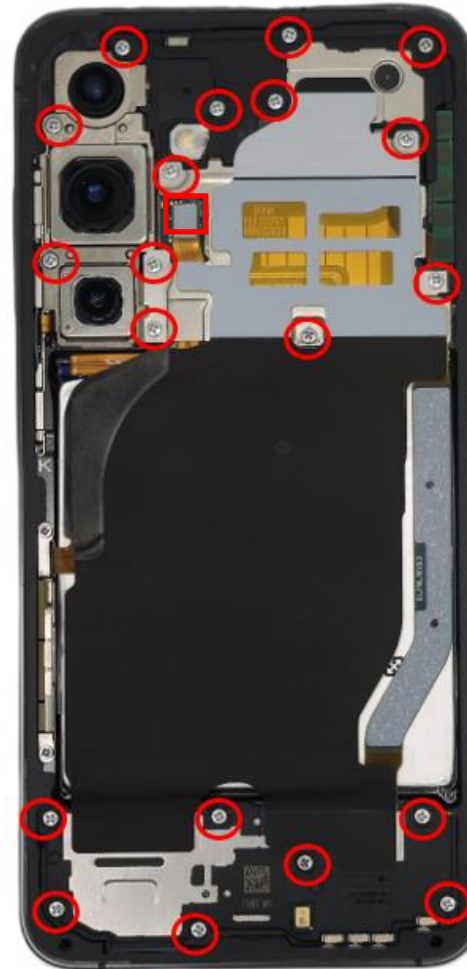
S24 Ultra

Install the Rear Assembly

- Starting with the top piece, install the Rear Assembly, making sure the top piece is clipped into place; then carefully connect the top of the FRC cable to the Main PBA
- Connect the Battery flex cable to the Main PBA
- Once installed, insert the bottom piece, ensuring the bottom piece is securely clipped in place
- Once secured, lay the NFC Pad down and connect its connector to the Main PBA; the SUS Plate should be aligned with and placed over the top piece
- Inspect the Rear Assembly to make sure that the Rear Assembly is resting flat and in its proper place
- Secure the Rear Assembly by using the Screwdriver and insert new screws:

S24 & S24 +: (Rear 18: 1.3 Kgf·cm $\pm$ 7%, Cam BRK 2: 1.35kgf $\pm$ 7%)

S24 Ultra (Rear 16:1.25 Kgf·cm, Cam BRK 1: 1.35 Kgf·cm $\pm$ 7%)



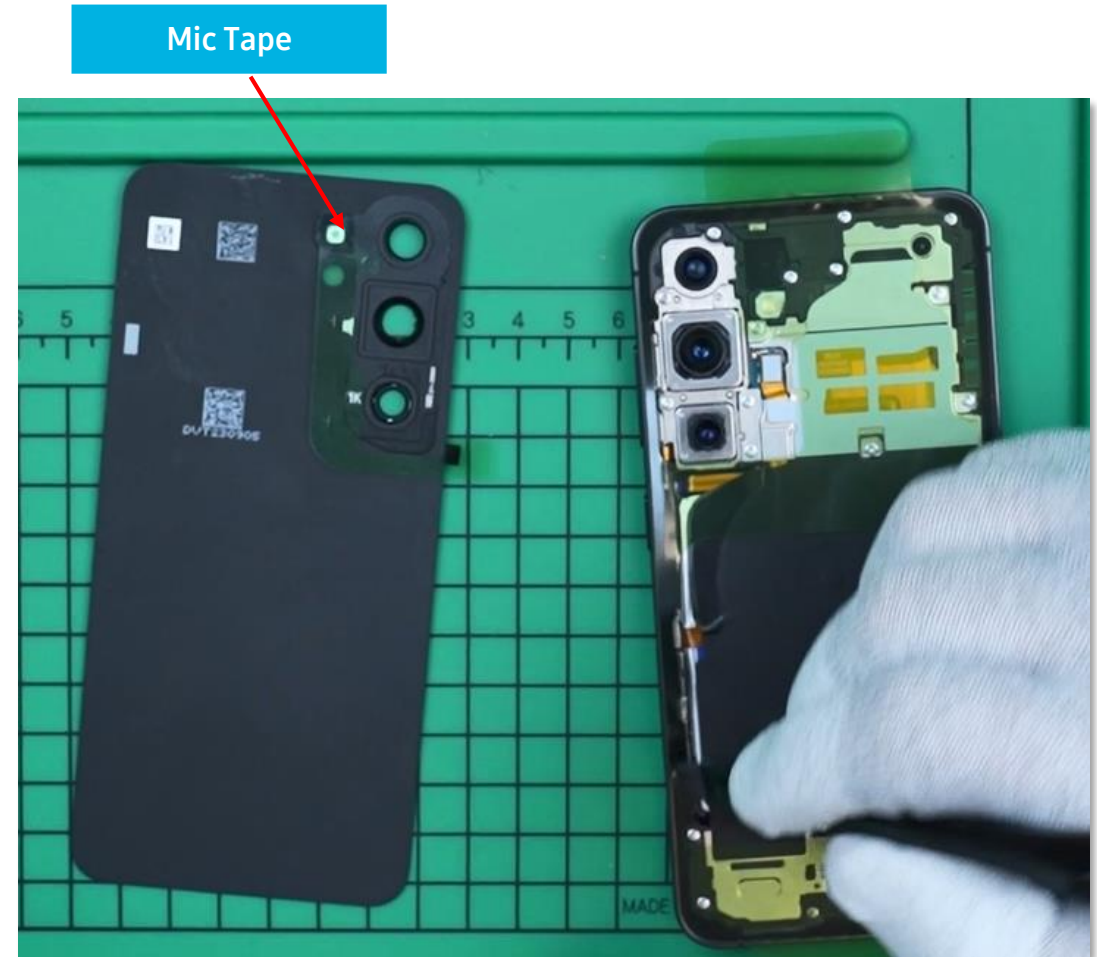
S24/S24+



S24 Ultra

Align Back Cover Tapes

- On S24 and S24+, align the Mic Tape onto the inside of the Back Cover
- Align the Back Cover Outer Tape onto the Rear Assembly, using the screw holes as your guide
- Once both Tapes are aligned, use the Disassembly Stick around the edges to secure it in place
- Fold the tabs up 90° and pull up the films



Attach Back Cover

With the Back Cover properly put together, all tapes applied should have the sticky side exposed.

Align the Back Cover precisely with the Rear Assembly, then place it over the Rear Assembly; gently press around the edges to ensure a secure fit.



Back Cover Press

Before the final press, perform a visual inspection:

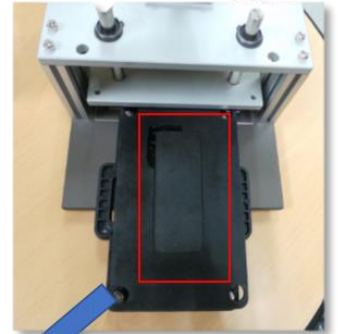
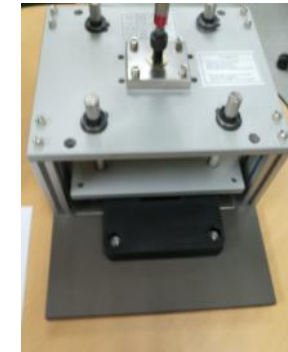
- Make sure the Back Cover is properly aligned
- There should be no gaps or overlaps between the OCTA and Back Cover

Press the device in the Press Jig:

- Place the device into its Press Pads, and insert the Press Pads into the Press Jig
- Using the large 1N Torque Wheel, press the device for thirty (30) seconds
- Insert Middle pad and press for another 30 seconds



Press Jig



Prepare for Water Resistance Test



Diagnostics

Galaxy Diagnostics – Calibrations

Launch Galaxy Diagnostics and perform all required Outgoing Quality Control (OQC) tests and calibrations to ensure that all components are functioning properly.

Calibrations

Galaxy S24 requires the following calibrations:

- Vignetting (If FFC was replaced)
- Multi TSP Calibration
- TSP Calibration
- Range Sensor Calibration
- mmWave Calibration (when Main PBA or mmWave Module(s) are replaced)



Diagnostics, cont.

Customer Pickup

Perform one last visual inspection and return the device in the following condition:

- Updated to the most recent firmware build
- State of charge at 100%
- Wiped clean using a microfiber cloth to remove any fingerprints or debris



Galaxy S24

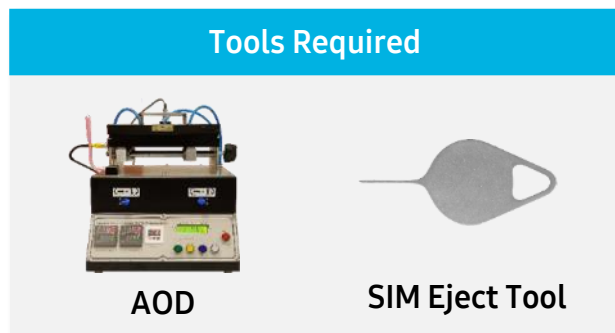
Front Facing Camera Replacement



Remove the Front Facing Camera

The FFC must only be removed when it requires a replacement. Because the FFC is bonded to the bracket, a heating source such as a hot plate, mobile dryer, or AOD is required.

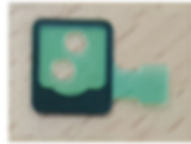
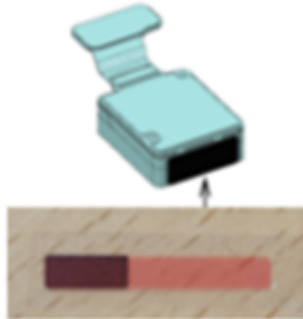
- Configure the heating source to 70~75°C and heat the device for 5 minutes
- Use the SIM Eject Tool to detach the bonding between the FFC and front bracket by moving the SIM tool along the edges of the FFC
- **DO NOT** apply pressure or go too deep as this could damage the LCD
- Once removed, gently detach any sponges from the front bracket; the FFC area should be free of tape residue



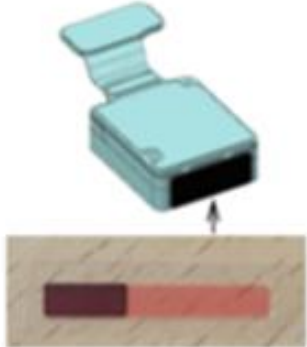
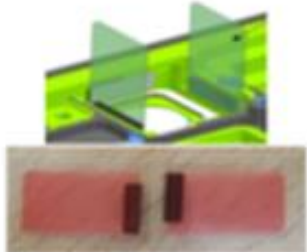
NOTE: Use Camera Lens Covers when they are available to prevent dust, fingerprints, other debris and/or damage on the Camera Lens.



S24+ FFC Rework Kit

S24+ VT CAM REPAIR KIT A/S REPAIR KIT-VT CAM(Global): GH82-33769A	A/S SPONGE Front camera (□ shaped TAPE): GH81-25069A – 1EA		1	GH81-25069A
	A/S TAPE PET Front camera (will be attached on top side of camera module) : GH81-25068A – 1EA		1	GH81-25068A
	A/S TAPE PET Front camera SIDE (will be attached on both left and right sides of the metal) : GH81-25114A – 2EA		2	GH81-25114A

S24 Ultra FFC Rework Kit

S24 Ultra VT CAM REPAIR KIT A/S REPAIR KIT-VT CAM(Global) : GH82-33770A	A/S-SPONGE Front camera TAPE (□ shaped TAPE) : GH81-24936A - 1EA		1	GH81-24936A
	A/S TAPE PET Front camera (will be attached on top side of camera module) : GH81-25068A – 1EA		1	GH81-25068A
	A/S TAPE PET Front camera SIDE (will be attached on both left and right sides of the metal) : GH81-25114A – 2EA		2	GH81-25114A