



Pixel 10a

Repair manual

Version 1.1



Google recommends that you seek professional assistance for all device repairs.

Self service repair isn't recommended unless you are an adult with the technical expertise to safely repair electronic devices. If you choose to perform self repair, you agree to assume the risk associated with such repair.



Use caution if you engage in repair.

When you open or repair your device, be careful of electric shock, device damage, fire and personal injury risks, and other hazards. Before you service the product, read the full set of precautions in this document.

Welcome!

We are here to help.

At Google, we innovate, design, and build to create helpful and sustainable products. Product longevity is important to us and repairability is part of that. Repair lets our products to stay in-use and out of landfills.

If you have any questions or need support, please reach out.

support.google.com

This manual is organized into sections for easy and intuitive navigation.



Precautions

Safety is a top priority for Google. Users should work in a safe environment and have the necessary skills and training to complete the repairs safely.



Repair flows

Here, we have a flow chart of the most efficient repair methods.



Disassembly

Each section contains a list, in the order of device disassembly, prerequisite steps, tools, fixtures, and parts to complete the repair.



Assembly

For each disassembly, we provide a guide to reassemble. This might include rework steps for certain components.



Troubleshooting and software

Use the diagnostic steps and tests recommended in this section to identify the source of device problems and issues.



Glossary

All of the terms and acronyms you need to communicate with the same language to colleagues and customers.

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Electrical precautions	Tools and fixtures
Battery conditions	Laser product
Battery handling	Safety equipment
Glass handling	

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Repair flows

Disassembly order	Assembly order
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Disassembly-BC

Back cover	Bottom speaker
Inner housing	Top speaker
Battery	Vibrator
Logic board	Enclosure
Front camera	
Rear camera	

Disassembly-CG

Display

Assembly-BC

Enclosure	Front camera
Vibrator	Battery
Top speaker	Inner housing
Bottom speaker	Back cover
Rear camera	
Logic board	

Assembly-CG

Display

Table of contents (continued)



Troubleshooting

Connectors location

Touch panel

Power

RF (BT, WiFi, GPS, NFC)

Wireless charge

Battery

Mic 1

Sensor

Mic 2

FPS

Top speaker

Camera

Speaker

USB

Vibrator

Display



Useful link

Software tools



Pixel 10a repair manual

Precautions

Revision history

Version	Date	Change description
V1	June 2025	First release
V1.1	Jan 2026	<ol style="list-style-type: none">1. Add the wording "for 5 secs".@1002. Add the wording "(5 seconds per press)".@1023. Correct the location of the washer callout #6.@1094. Revise wording "The vapor chamber should be visible after the battery installation as shown in Fig 1.". @1345. Update enclosure picture.@1206. Add instruction of extra battery tab gif.@647. Revise conductive fabric washer picture.@25 ,@70 ,@1098. Add wording "Make sure the PSA liners are not in the way. Do NOT tear these off yet." & picture.@113 ,@1459. Move the battery assembly step after the front camera.10. Revise wording "Apply IPA around the vibrator to soften the adhesive underneath."@84

Important: Before you begin



Be careful if you engage in repair

When you open or repair a device, be careful of electric shock, device damage, fire and personal injury risks, and other hazards.

Always perform repairs in a clean work space with good ventilation and no combustible materials.

Ensure that there are no additional screws or small parts left in the device after assembly.

Always ensure that screws are securely fastened.

Before you service the product, read the full set of precautions in this document.



Use caution Batteries should be carefully handled, and could be dangerous when damaged

- Fully discharge the device battery before you attempt repair.
- Never bend, dent, puncture, or use tools to pry the battery.
- To prevent damage, store batteries in the replacement part packaging as soon as possible after removal.
- If a battery begins to vent, cover it in sand or use gloves and tongs to place the battery in a fire safe container as soon as possible.
- Take care to prevent shorting of battery terminals or damage to the battery, as it could result in fire or overheating.
- Dispose the battery according to local regulations.



Use caution Pixel 10a contains a class 1 laser module

The design of the device incorporates optics and protective housing such that there's no access to a level of laser radiation above class 1 during normal use or approved servicing.

Use of controls or adjustments or performance of procedures other than those specified here might result in hazardous radiation exposure.

Important: Before you begin



Use caution Part handling – glass

- Wear protective gloves and safety glasses when you handle damaged parts.
- Use protective film when you remove damaged parts.
- After removal, store the damaged part in the replacement part packaging as soon as possible to prevent injury.



Tools and fixtures

The use of Google-authorized tools and fixtures is strongly recommended to repair a device in a safe and effective manner.

Use caution

- We *don't* recommend that you perform repairs without the specified tools and fixtures.
- Improper use of tools and fixtures might result in injury to yourself, the user of the device or others, as well as damage to the product, tools, fixtures, replacement parts, or other spare parts.



Important: Before you disassemble the device

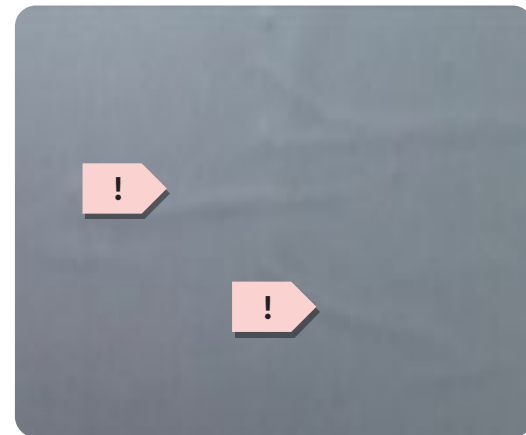
- Disconnect the device from all power sources before any disassembly.
- Make sure that the battery is fully discharged before any disassembly.
- If the phone battery shows signs of swelling or damage, or if the phone feels hot or emits a strong odor, *don't* attempt disassembly. Please reach out to Google [customer support](#).
- Take care not to expose the phone or its components to liquids after disassembly.

Use caution ⚠

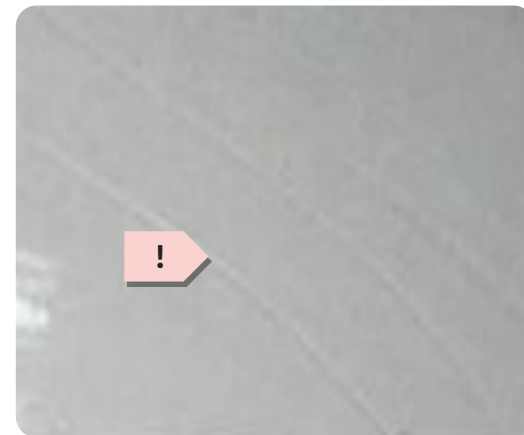
Examples of unacceptable battery conditions that aren't suitable for repair



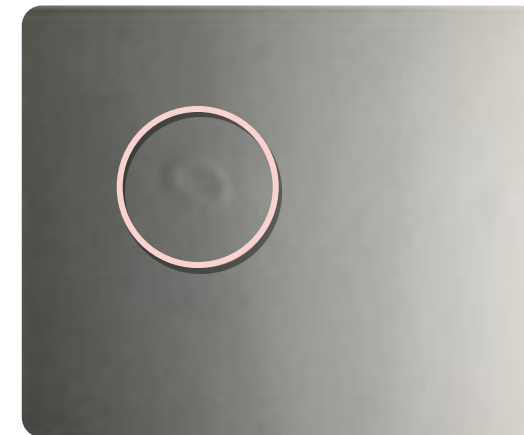
Pouch damage



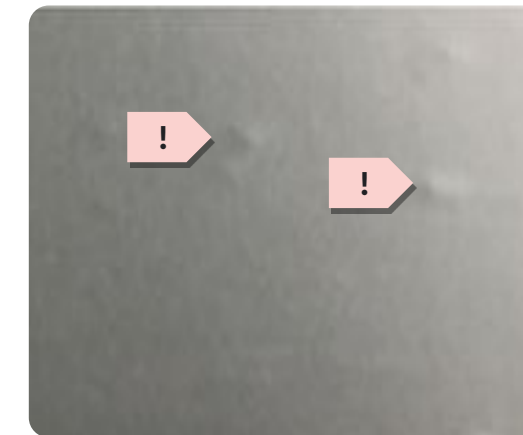
Line protrusion



Scratch



Contamination mark



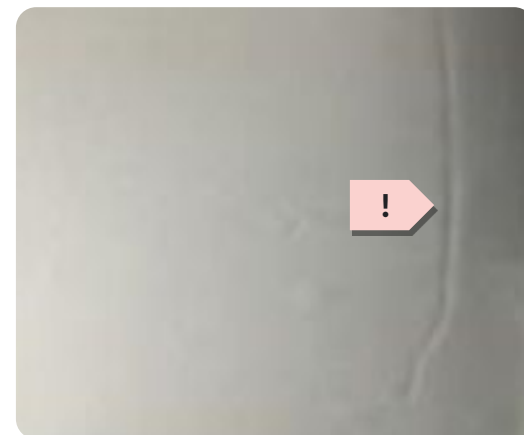
Dot protrusion



Dent



Bubbling



Imprinted line



Swelling or electrolyte leakage

*These are examples of potentially dangerous battery conditions but *don't* reflect all possible dangerous conditions. Please follow the general safety guidance outlined in this document.



Pixel 10a repair manual

Introduction

[Expanded views](#)

[Turn Pixel on and off](#)

[Screw map](#)

[Tools and fixtures](#)

[Screen calibration](#)

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[Glossary](#)

[Liquid damage indicators](#)

Pixel 10a: Expanded view

Reuse indications



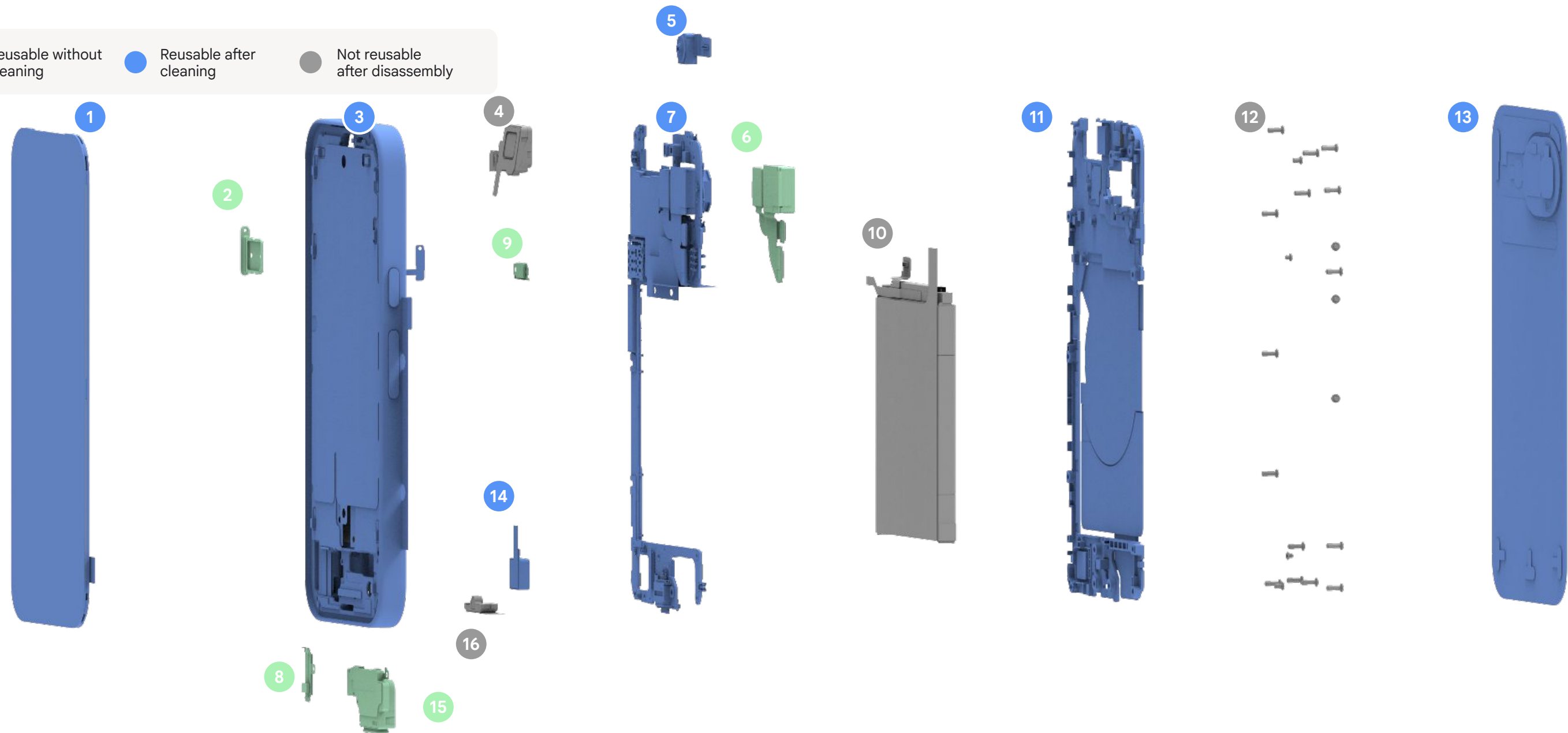
Reusable without cleaning



Reusable after cleaning



Not reusable after disassembly



Pixel 10a part ID

1	● Display	8	● Display B2B stamping plate	15	● Bottom speaker
2	● SIM tray	9	● Battery B2B stamping plate	16	● Mic 1 holder
3	● Enclosure	10	● Battery		
4	● Top speaker	11	● Inner housing		
5	● Front camera	12	● Screw		
6	● Wide and ultra wide rear camera	13	● Back cover		
7	● Logic board	14	● Vibrator		

Screw map

Here's the list of screws used in the Pixel 10a:

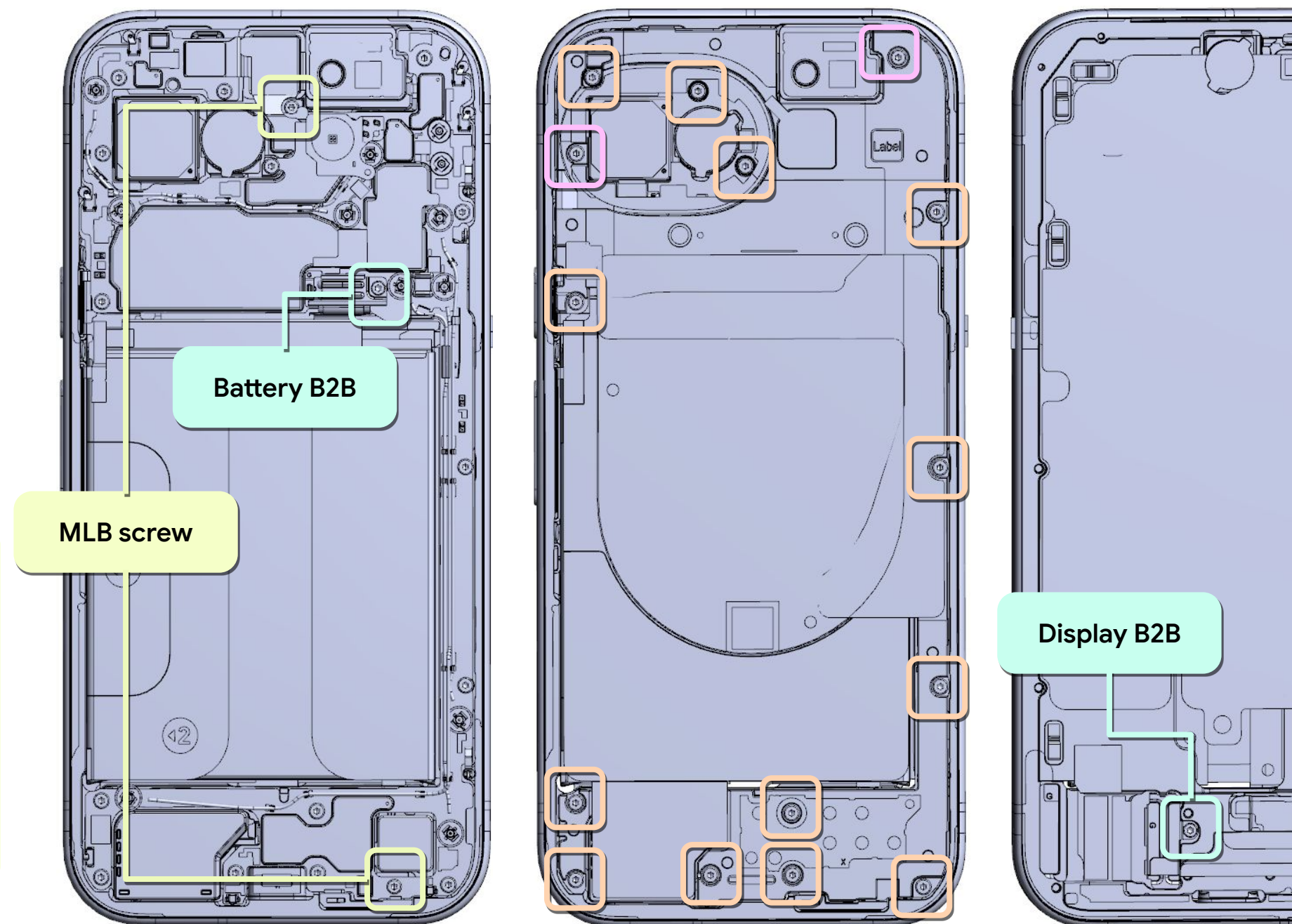
<p>Screw G250-07427-00</p>	<p>Screw G250-06929-01</p>	<p>Screw G250-07429-00</p>	<p>Screw G250-07430-00</p>
			
<p>Torque 1.0 kgf±10%</p>	<p>Torque 0.8 kgf±10%</p>	<p>Torque 1.3 kgf±10%</p>	<p>Torque 1.3 kgf±10%</p>

⚠ Screws are a single use item

Screws are a single use item and if removed from the device, they should be replaced with a new screw.

💡 After removal, replace with a new screw

Each screw is critical to the safe and continued operation of the phone. Since thread locking adhesive couldn't be reactivated, replace each used screw with a new screw after removal.



ESD protection

Did you know?

ESD is the sudden flow of electricity through two electrically charged objects. For example, ESD is a shock you feel when you walk across a carpet, and then touch a metal door handle.

Follow these four steps to keep ESD safe:



Stay grounded

Repairs should be carried out on an ESD mat, and the person who repairs the device should wear a grounded ESD strap.



Avoid the static buildup

Don't wear synthetic fibers such as fleeces that could generate static.



Did you know?

ESD is the sudden flow of electricity through two electrically charged objects. For example, ESD is a shock you feel when you walk across a carpet, and then touch a metal door handle.



Protective bags

All ESD-sensitive parts should be packed in metalized protective bags during shipping.



Avoid touching pins

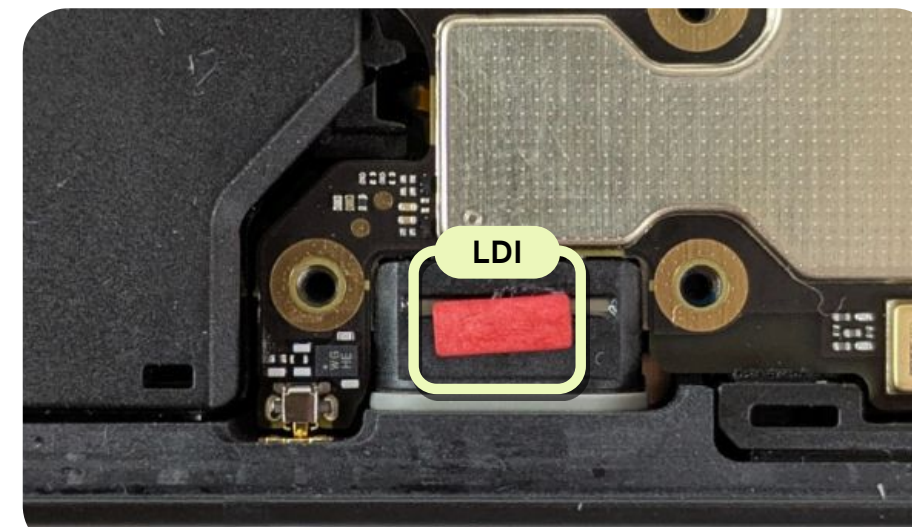
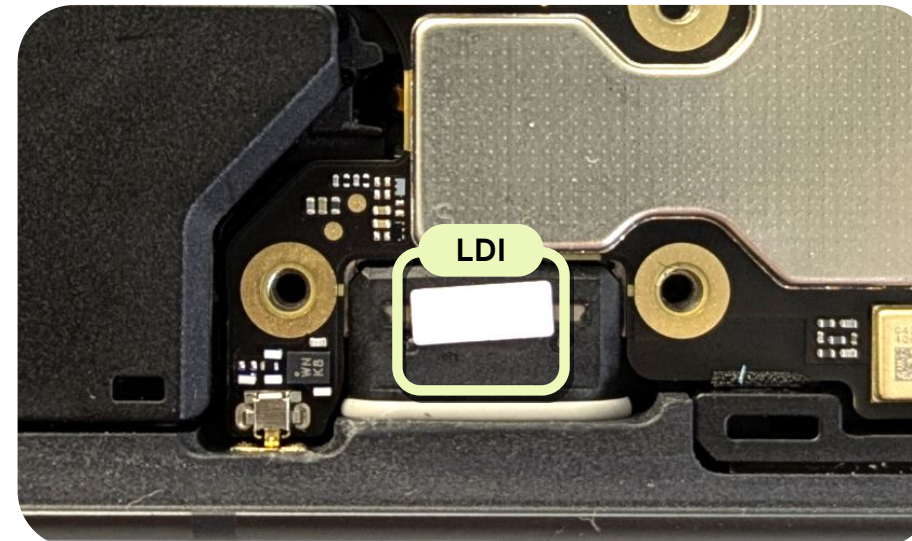
Use ESD-safe tools to handle components to avoid touching the pins.

Liquid damage indicators

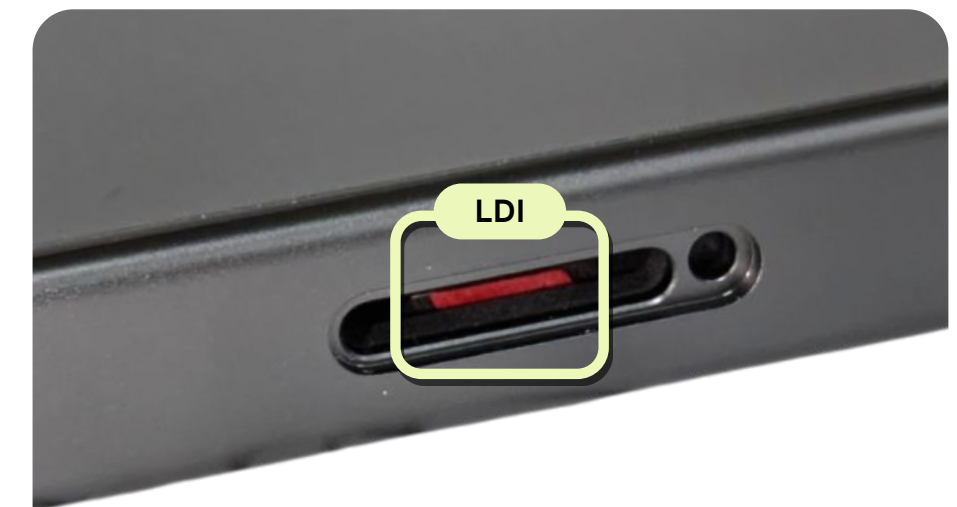
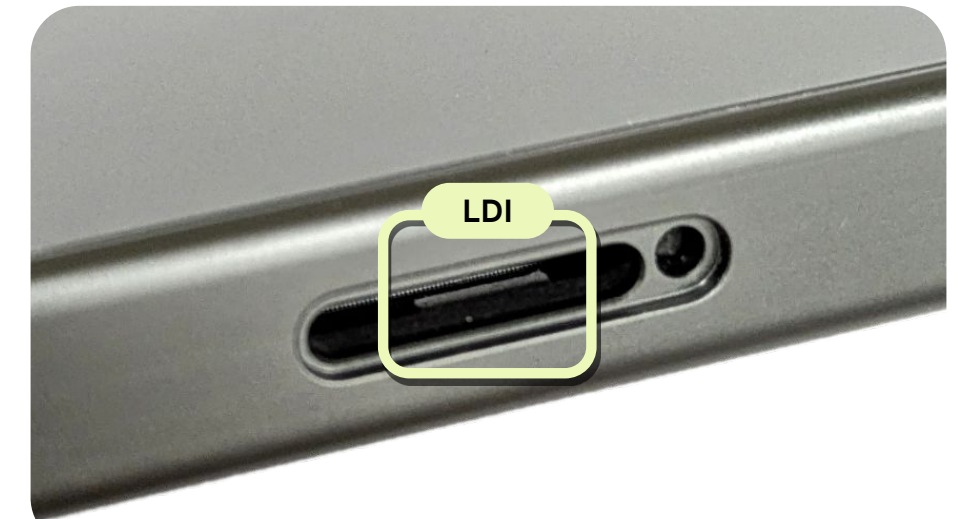
Liquid damage indicators (LDI) are strips that change colors when a phone is exposed to water or other liquids.

- Exposure to liquids could lead to the device malfunction, such as overheating or a short circuit.
- There are two LDI on this device.
- If either of the indicators has turned red, the device is considered to be exposed to liquid.

Logic board LDI



On the charging port.



On the enclosure (inside the SIM tray slot), visible without disassembly of the device.

Turn the Pixel on or off



Turn the power on or off

- To turn on a device when it's powered off, press and hold the power button for a few seconds. See where the power button is located.
- To power off phone when it's turned on:
 - *To power off the phone, press and hold the power and volume up buttons for a few seconds. Then, tap **Power off** on screen.*
 - *For further information, see [Google help page](#).*

Tip: Before you turn on the phone, charge it. [Learn how to charge](#).



Turn the screen off and back on

- To turn the screen off and on when phone is turned on, press the power button once.

Tip: On some Pixel phones, you could see the time and some other information even when the screen is off. Learn which Pixel phones and [how to turn **Always show time and info** off or on](#).



Restart (reboot)

- On most phones, press the phone's power button for about 30 seconds, or until the phone restarts.
- On the screen, you might need to tap **Restart**.



Tools and fixtures

The use of Google-authorized tools and fixtures is required to repair a device in a safe and effective manner.

Note: Some tools and fixtures require maintenance and calibration before you perform repairs.

Use caution:

- *Don't* perform repairs without Google-specified tools and fixtures.
- Improper use of tools and fixtures might result in injury to yourself, the user of the device or others, along with damage to the product, tools, fixtures, replacement parts, or other spare parts.

Google-approved fixtures: Pixel 10a

Google-approved fixtures are Google-tested and are strongly encouraged to ensure high quality and safe repairs.

Universal press

G940-00733-00



Universal disassembly fixture

G940-00873-00

Alternate part numbers: G980-14551-00, G940-00734-00



Spare universal device clip #1

G940-00876-00



Universal press plate 12 mm

G940-00736-00



Universal holder

G940-00834-00



Universal base plate 12 mm

G940-00833-01



Universal holder limiting block

G940-01110-00



Universal supporting rubber

G940-00804-00



Pixel 10a fixture battery press rubber

G940-01068-00



Pixel 10a fixture back cover press rubber

G940-01069-00



Pixel 10a fixture display press rubber

G940-01070-00



Common tools

Common tools are suggested to ensure high quality and safe repairs. These items *don't* need to be purchased from a Google-recommended supplier.

ESD wristband



ESD mat



ESD spudger

Plastic



ESD tweezers

Plastic



ESD pick

Plastic



Suction cup pliers

Suction cup _ opening plier



Screwdriver

Hex shank torx plus bit 3



Adjustable torque screwdriver

Hex shank torx plus bit 3



SIM card ejection pin



Heating plate



Absorption bulb



Common tools

Common tools are suggested to ensure high quality and safe repairs. These items *don't* need to be purchased from a Google-recommended supplier.

Electric glue removal tool



Screwdriver
Flathead Screwdriver 2.0 mm



Tool for vibrator removal

[Tools and fixtures](#)

Consumables

Consumables are suggested to ensure high quality and safe repairs. These items *don't* need to be purchased from a Google-recommended supplier.

IPA



3M AP111 primer



Sankol lubricant
CFD 409Z_v2



Anti-static ESD gloves



Finger cots



Dust-free cotton swabs



Dust-free cloth



Protective film



Safety items

Safety items are suggested to ensure high quality and safe repairs. These items *don't* need to be purchased from a Google-recommended supplier.

Safety glasses



Heat-resistant protective gloves



Cut-resistant protective gloves



Nitrile or lint-free gloves



Sand bucket





Replacement parts

Important:

- The use of Google-authorized replacement parts is strongly recommended.
- Performance within product specifications couldn't be assured if Google-authorized replacement parts aren't used.



Use caution

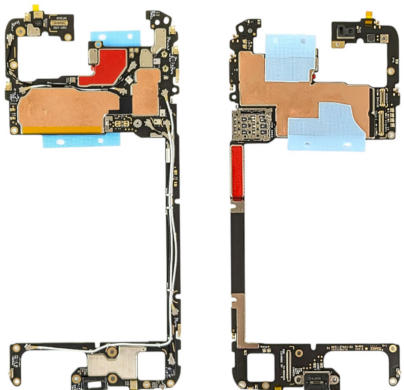
Use of replacement parts other than Google-authorized replacement parts, such as aftermarket batteries, might impact device safety, reliability, and performance.

Replacement parts


Reuse indications

- Reusable without reclaim
- Reusable with reclaim
- Not reusable after disassembly

Logic board
Multiple part numbers




Display module
G949-01571-00




Enclosure
Multiple part numbers




Back cover
Multiple part numbers




Inner housing
G949-01588-00




Front camera
G949-01589-00



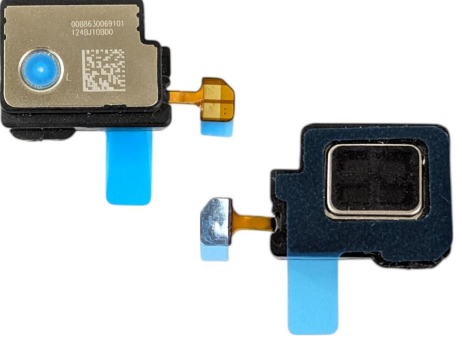
Wide rear camera
G949-01590-00




Ultra wide rear camera
G949-01591-00



Top speaker
G863-00691-01




Bottom speaker
G863-00692-01



Vibrator
G710-08415-00



Battery
G949-0159X-00



Please remove the white liner after assembling the battery.

Replacement parts

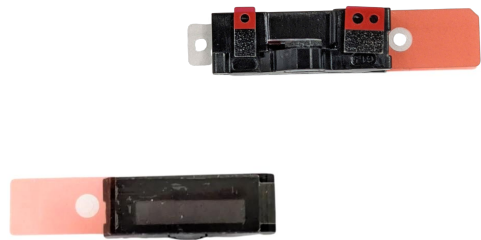
Reuse indications

● Reusable without cleaning

● Reusable after cleaning

● Not reusable after disassembly

Mic 1 holder
G949-01592-00



Screw
G250-07427-00



Screw
G250-06929-01



Screw
G250-07429-00



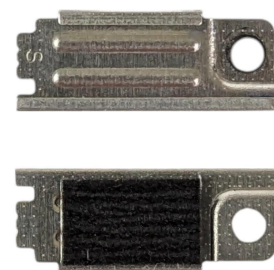
Screw
G250-07430-00



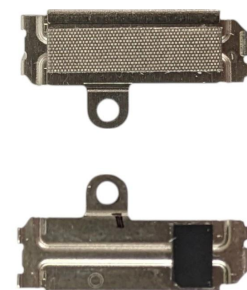
SIM tray
Multiple part numbers



Stamping plate battery
G730-09926-00



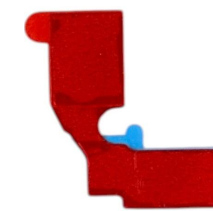
Stamping plate display BTB
G730-09924-00



P-sensor rubber
G806-13064-01



FCAM copper foil
G806-15112-00



Conductive fabric washer
G806-14924-00



Side key FPC mylar
G806-15827-00



Replacement parts

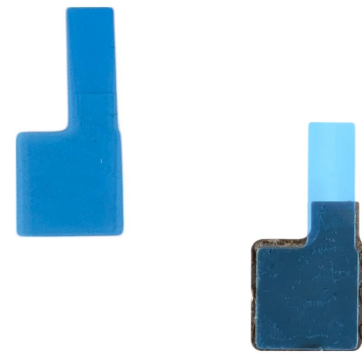
Reuse indications

● Reusable without cleaning

● Reusable after cleaning

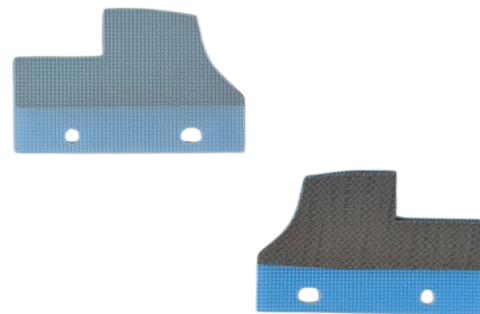
● Not reusable after disassembly

Vibrator PSA
G806-17953-00



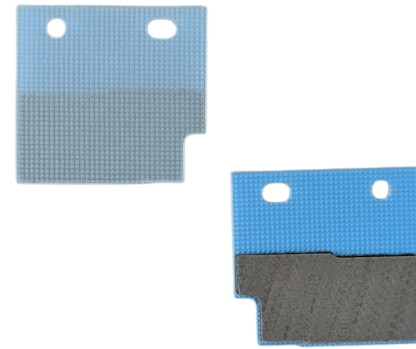
●

Thermal pad, SoC MLB
G806-15068-01



●

Thermal pad E-noise MLB
G806-15069-01



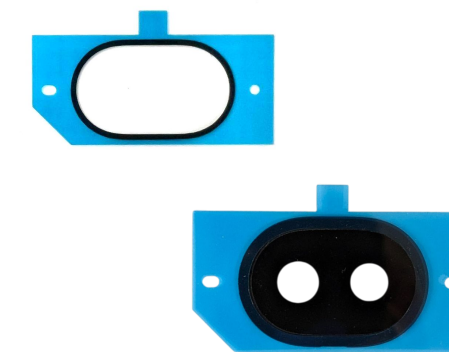
●

Rcam Trim, IH, STA5
G806-14884-01



●

Visor adhesive
G806-14879-01



●

Adhesive BC service
G806-16133-01



●

Adhesive enclosure to CG
G806-17027-01



●

Adhesive enclosure to BC
G806-14912-01



●



Glossary

Glossary

Acronym or term	Definition
ESD	Electro Static Discharge The sudden flow of electricity through two electrically charged objects.
IPA	IsoPropyl Alcohol Used to clean components and enclosures. It comes as pads or a solution.
FPC	Flexible Printed Circuit A type of low profile and flexible printed circuit.
OLED	Organic Light-Emitting Diode A type of flat panel display with an OLED to show images.
Sub6	Sub-6 GHz Refers to mid- and low-frequency bands under 6 GHz.
NG	Not Good. Usually refers to a condition that isn't acceptable.
SBOM	Service Bill Of Materials

Glossary

Acronym or term	Definition
Display module	<p>The OLED, glass cover, and sometimes other components such as the fingerprint sensor.</p> <p>Also known as: cover glass (CG) screen display</p>
Logic board	<p>The main electronic component in the device with the processor, memory, storage, and often Wi-Fi and bluetooth components all soldered on.</p> <p>Also known as: MLB main logic board main board PCBA</p>
Microphone	<p>The component used to capture audio to make a call, video, or dictate some notes.</p> <p>Also known as: mic mic 1 bracket</p>
Enclosure	<p>The housing that contains the buttons and provides protection for the logic board and other components.</p> <p>Also known as: housing (HSG) rear cover back cover bottom case back glass (BG)</p>
LDI	<p>Liquid Damage Indicator</p> <p>An indicator that turns from white into another color, typically red, after contact with water.</p> <p>Also known as: Liquid damage indicator LDI</p>

Glossary

Acronym or term	Definition
Camera	<p>Camera modules include the front camera and rear cameras.</p> <p>Also known as: CAM FCAM RCAM UW RCAM</p>
Pressure sensitive adhesive	<p>The adhesive that is used to bond the enclosure and display module, battery and enclosure, or other parts.</p> <p>Also known as: PSA</p>
UDFPS	<p>Under Display FingerPrint Sensor</p> <p>Also known as: Fingerprint sensor</p>
Release liner	<p>Used to transport sensitive parts, which include adhesives. It needs to be removed during installation for the device to function as intended.</p>

Glossary

Acronym or term	Definition
UW	Ultra Wide
ANT	Antenna
RF	Radio Frequency
ROM	Refers to an operating system
AR	Augmented Reality
FOF	Fabric-Over-Foam
SoC	System-on-Chip
NFC	Near Field Communication
B2B	Board-to-Board
IH	Inner Housing
SLAM FPC	Simultaneous Localization and Mapping FPC



Pixel 10a repair manual

Repair flows

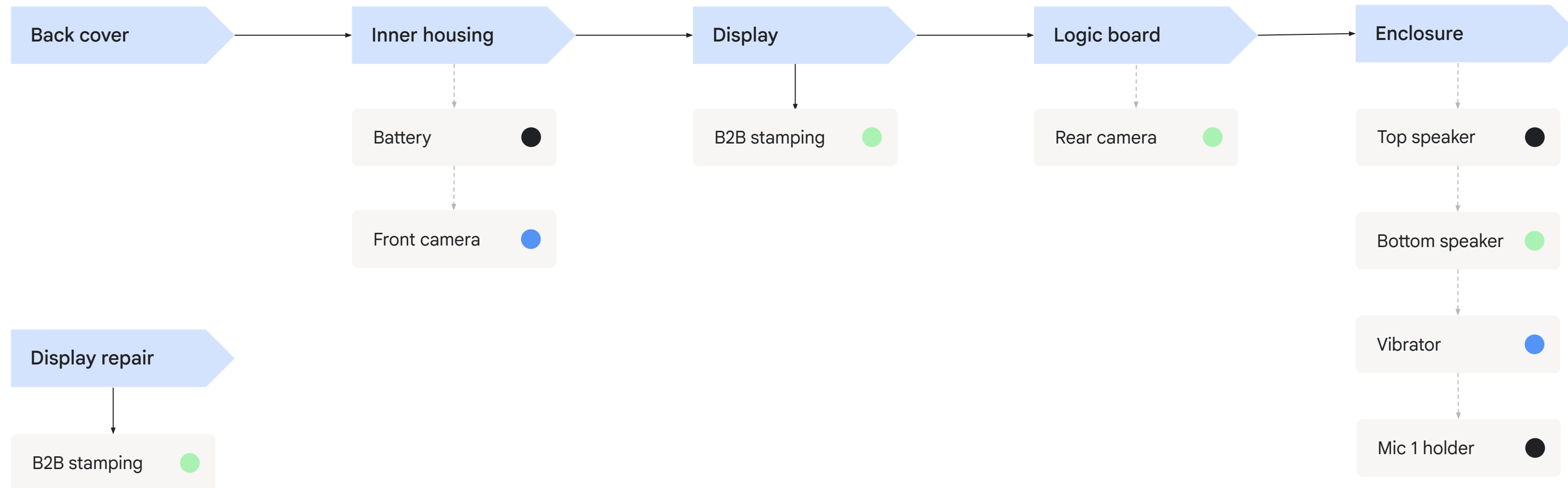
Disassembly order

Assembly order

Pixel 10a-disassembly flowchart

Should be removed before the next process
 Optional to remove
 Reusable without reclaim
 Reusable with reclaim
 Not reusable after disassembly

Other components repair



⚠ Important:
MLB and battery are in the same layer. They could be removed independently.

💡 How to read this chart

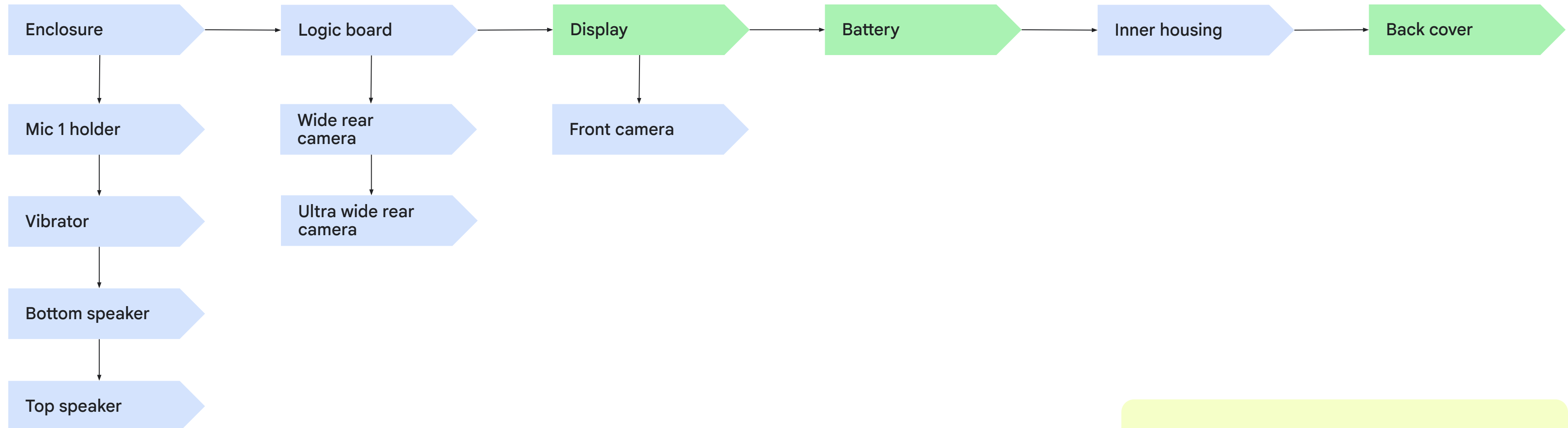
To replace the battery:
Remove the back cover, inner housing, and then the battery.

To remove the logic board:
Remove the back cover, inner housing, display, and then the logic board.

Pixel 10a-assembly flowchart

● Assembled without a fixture

● Assembled with a fixture



How to read this chart

To replace the battery:

Install the battery, inner housing, and then the back cover.

To reinstall the logic board:

Reminder that the MLB assembly process requires the logic board first, followed by the display.



Pixel 10a repair manual

Disassembly

Display

Logic board

Mic 1 holder

Back cover

Rear camera

Enclosure

Inner housing

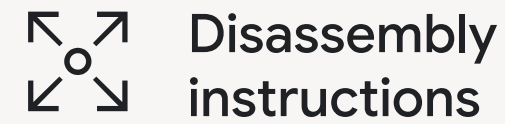
Top speaker

Battery

Bottom speaker

Front camera

Vibrator



Display

Use caution:

Use **safety gloves** to handle damaged displays, as some splinter could cause injury during removal.

Apply the **protective film** to the broken glass before removal.

Review all **safety precautions** before you begin work.

Prerequisites

Before you begin a repair, make sure that you **power off** the device and disconnect any charging cables.

Tools

Heat plate	Universal press plate 12 mm
Universal disassembly fixture	ESD tweezers
Universal press	ESD spudger
Universal base plate 12 mm	ESD pick
Universal holder	Cotton swabs
Universal holder limiting block	3M AP111 primer
Universal supporting rubber	IPA
Pixel 10a screen press rubber	
Pixel 10a back cover press rubber	





Parts


Display

Here's the list of parts for the display disassembly:

Reuse indications

 Reusable without cleaning

 Reusable after cleaning

 Not reusable after disassembly

Display module

G949-01571-00



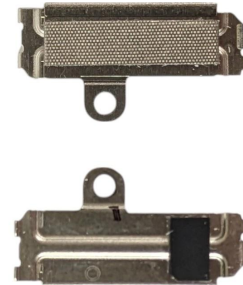
Adhesive enclosure to CG

G806-17027-01



Stamping plate display BTB

G730-09924-00



Screw

G250-06929-01



Weaken the adhesives

- Set the heating plate to **140 degrees F (60 degrees C)**.
- Place the device such that the display faces down, on the heating plate for **10 minutes (600 seconds)** to weaken the glue.



Use caution

Don't touch the heating plate. Any contact might cause burns.



Position the device

Place the device in the **universal disassembly fixture** such that the display faces up and front camera faces the right hand side.



Fixture setup

- Secure the suction cup module with the designated sockets as shown in Fig 1.
- The suction cups should be in full contact with the display as shown in Fig 3. Adjust the device as needed if the suction cup exceeds the back cover as shown in Fig 2.

Fig 1



Fig 2

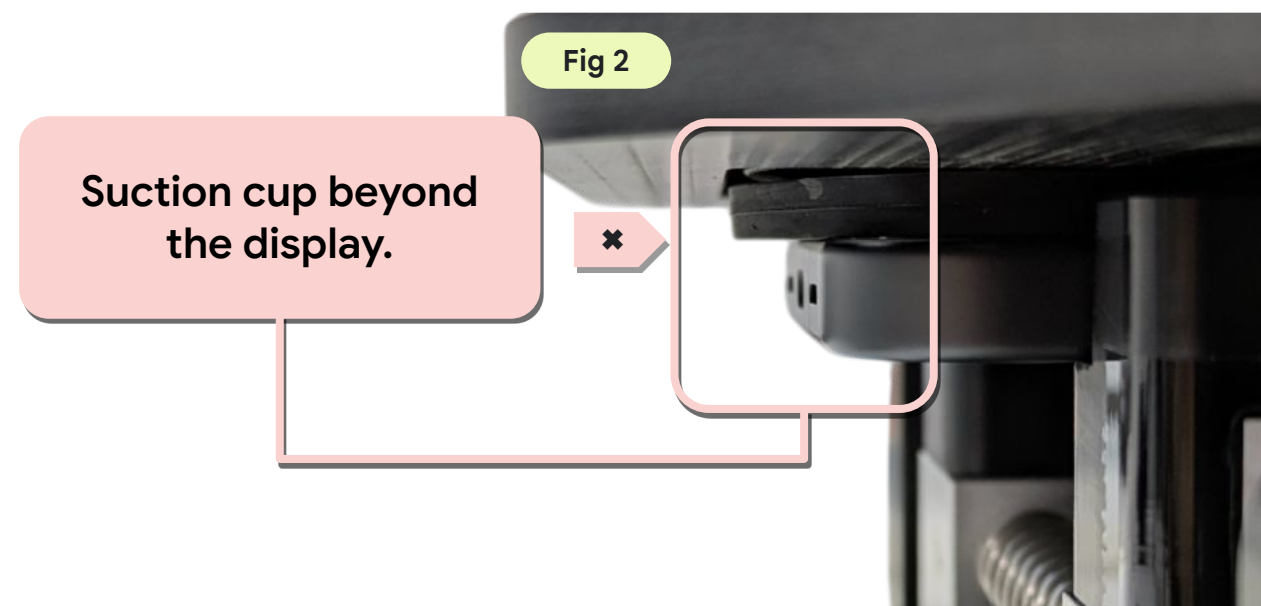
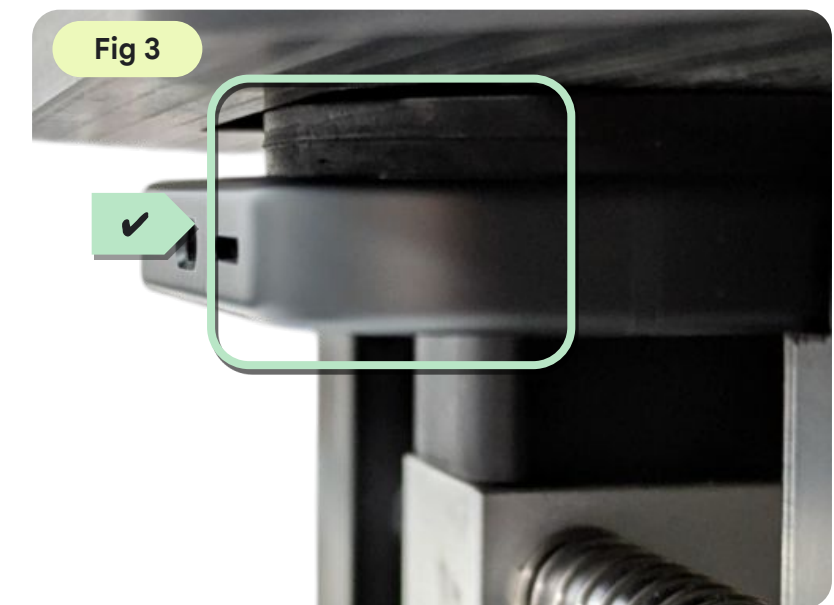


Fig 3



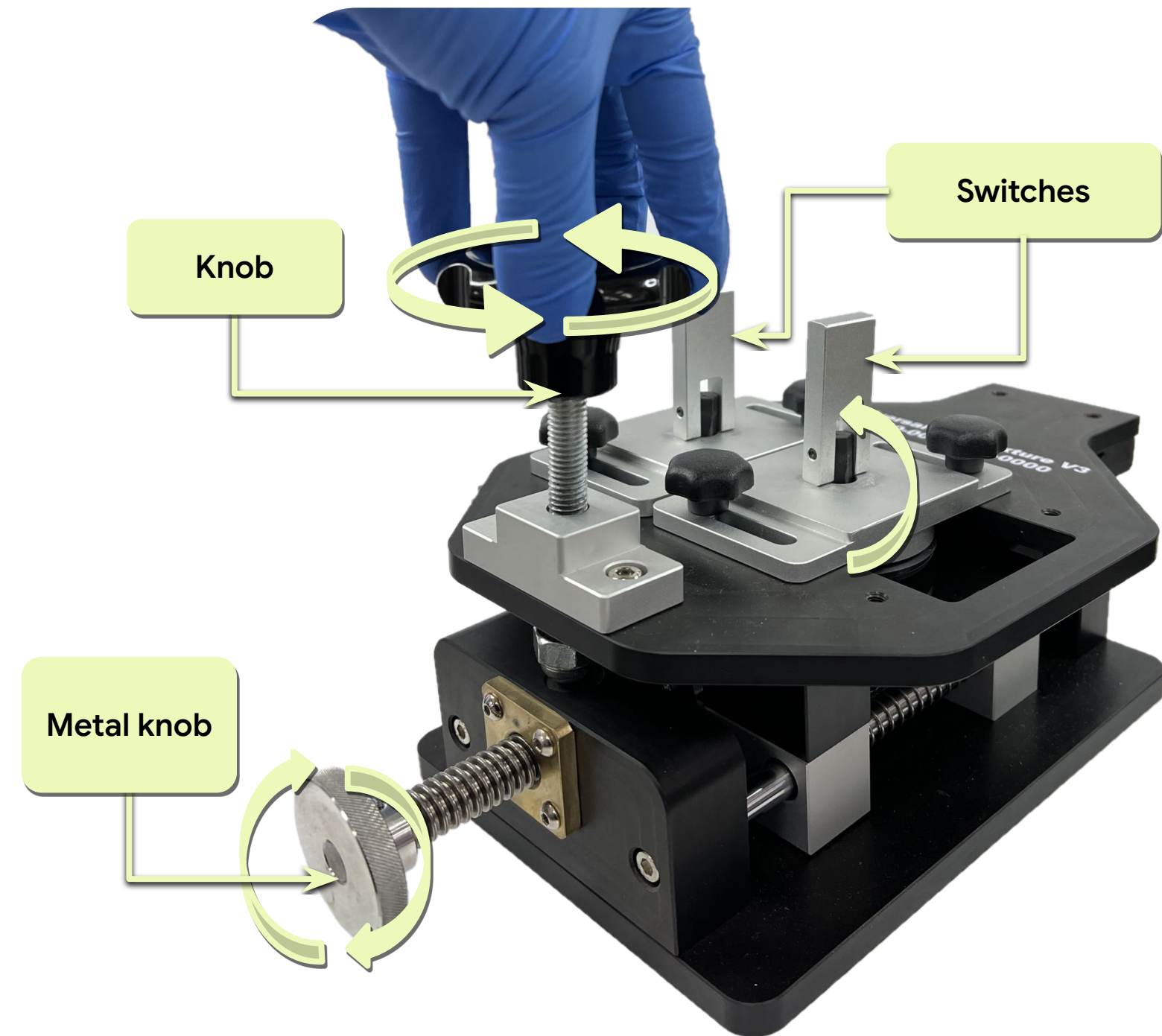
Use the fixture

- Turn the metal knob clockwise to fix the device in place.
- Press down firmly on the knob and flip the two switches on top to lock the suction cups to the display.
- Turn the knob counterclockwise slowly until you see an opening between display and enclosure.



Note

Before you proceed, clean the suction cup and display surface.



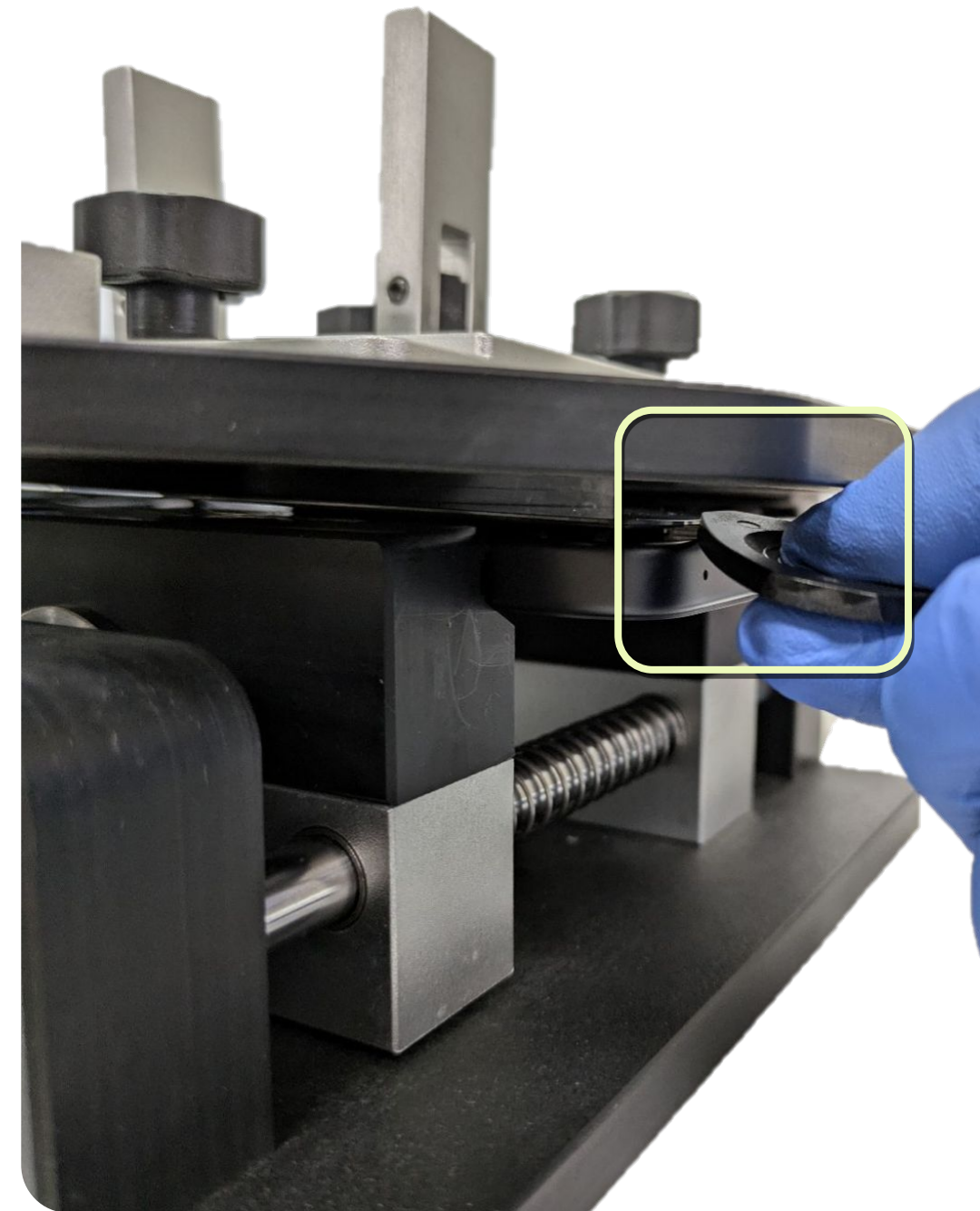
Use the fixture

Insert an ESD pick at the opening and cut the adhesive as soon as possible to prevent re-sealing.



Use caution

Don't insert the ESD pick between CG and trim.



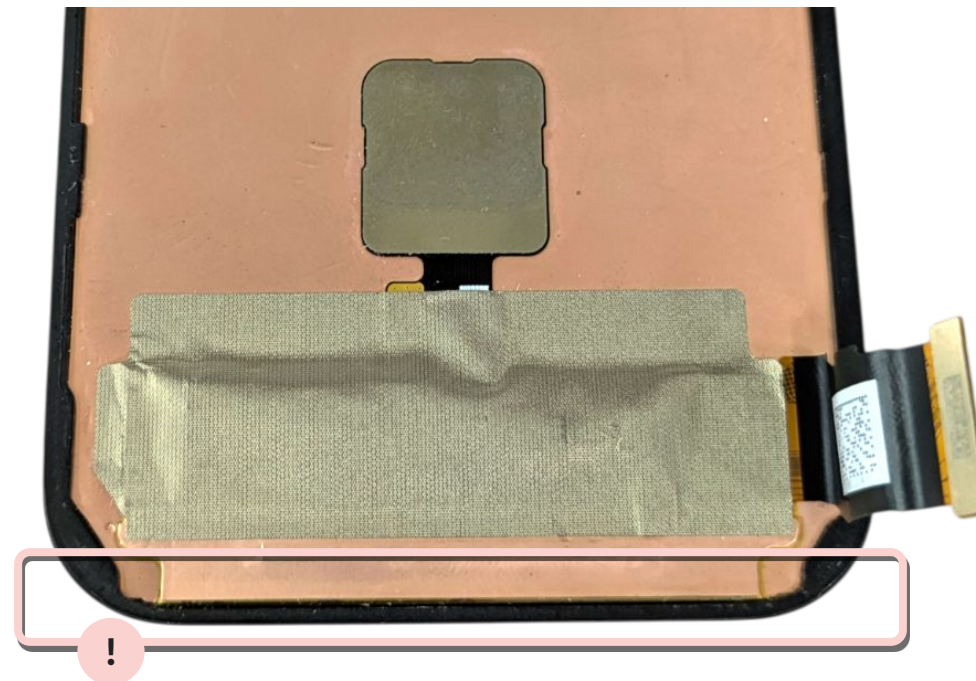
Remove the adhesives

Slide an ESD pick through four sides of the display randomly, to split display from the enclosure.



Use caution

If you insert deeper than 2 mm, it could damage the FPC and copper foil.



Flip the display

Use the suction bulb to set the display in an upright position.

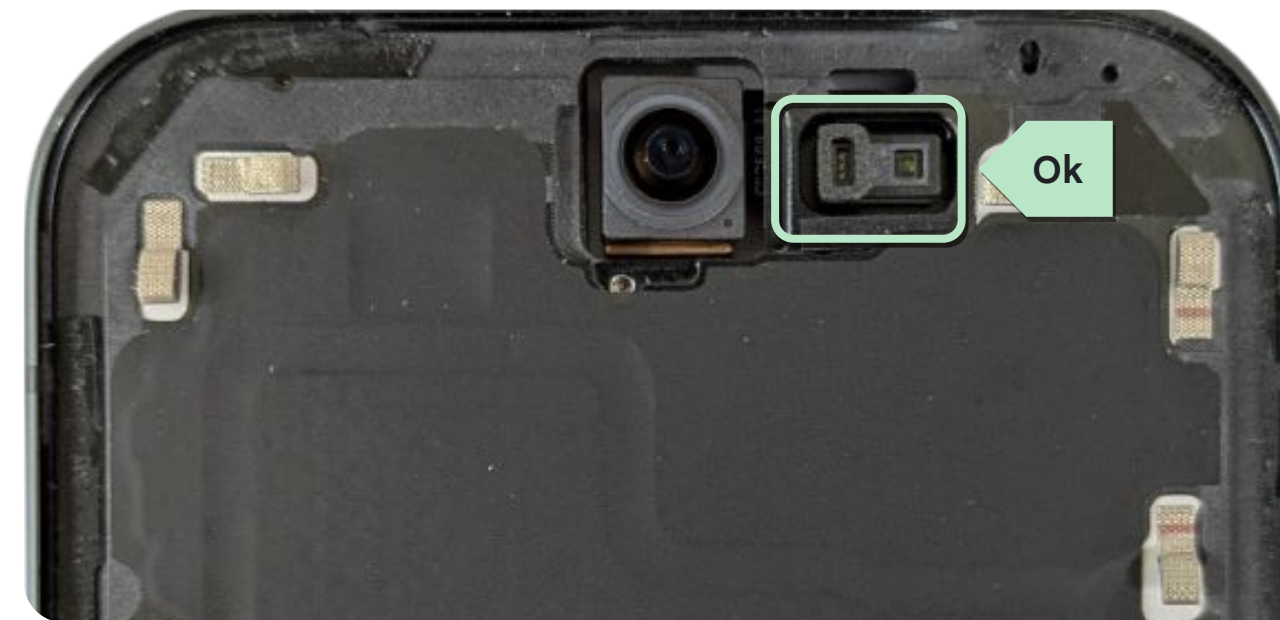


Use caution

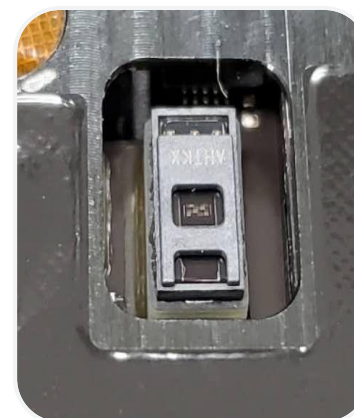
Don't attempt to separate the display by force. It's still attached to the enclosure through a very fragile ribbon.

Inspect the P-sensor rubber

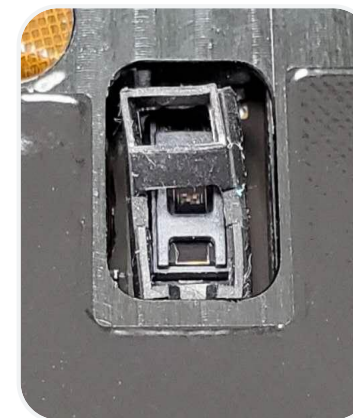
Ensure that the P-sensor rubber isn't damaged, missing or skewed, and that it's placed in the correct position.



Missing



Skewed



Skewed

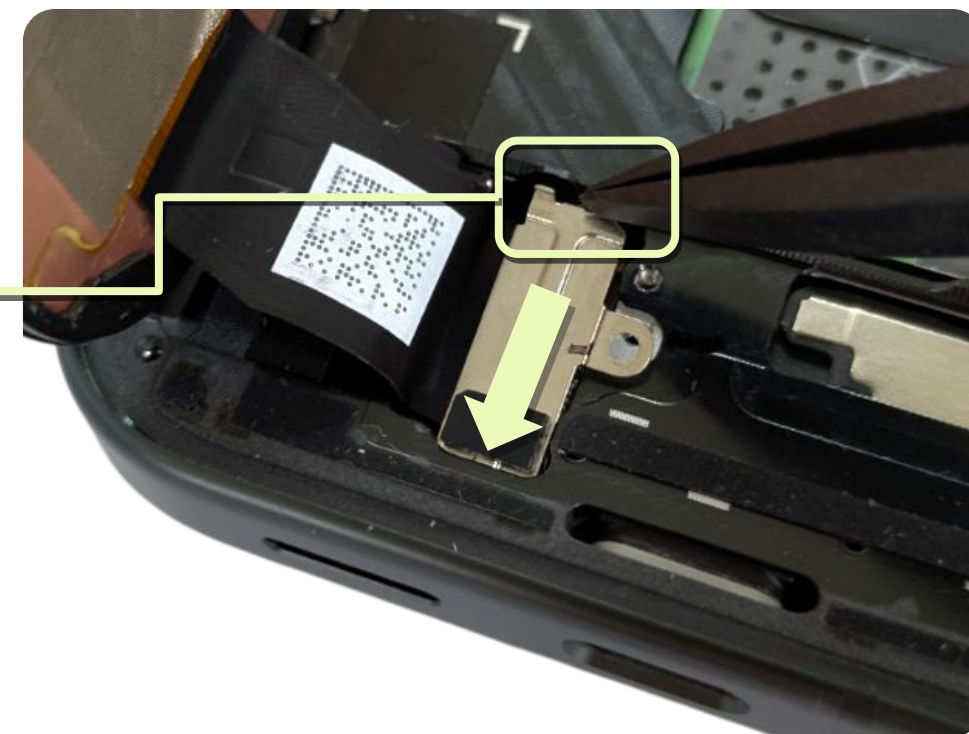


Skewed



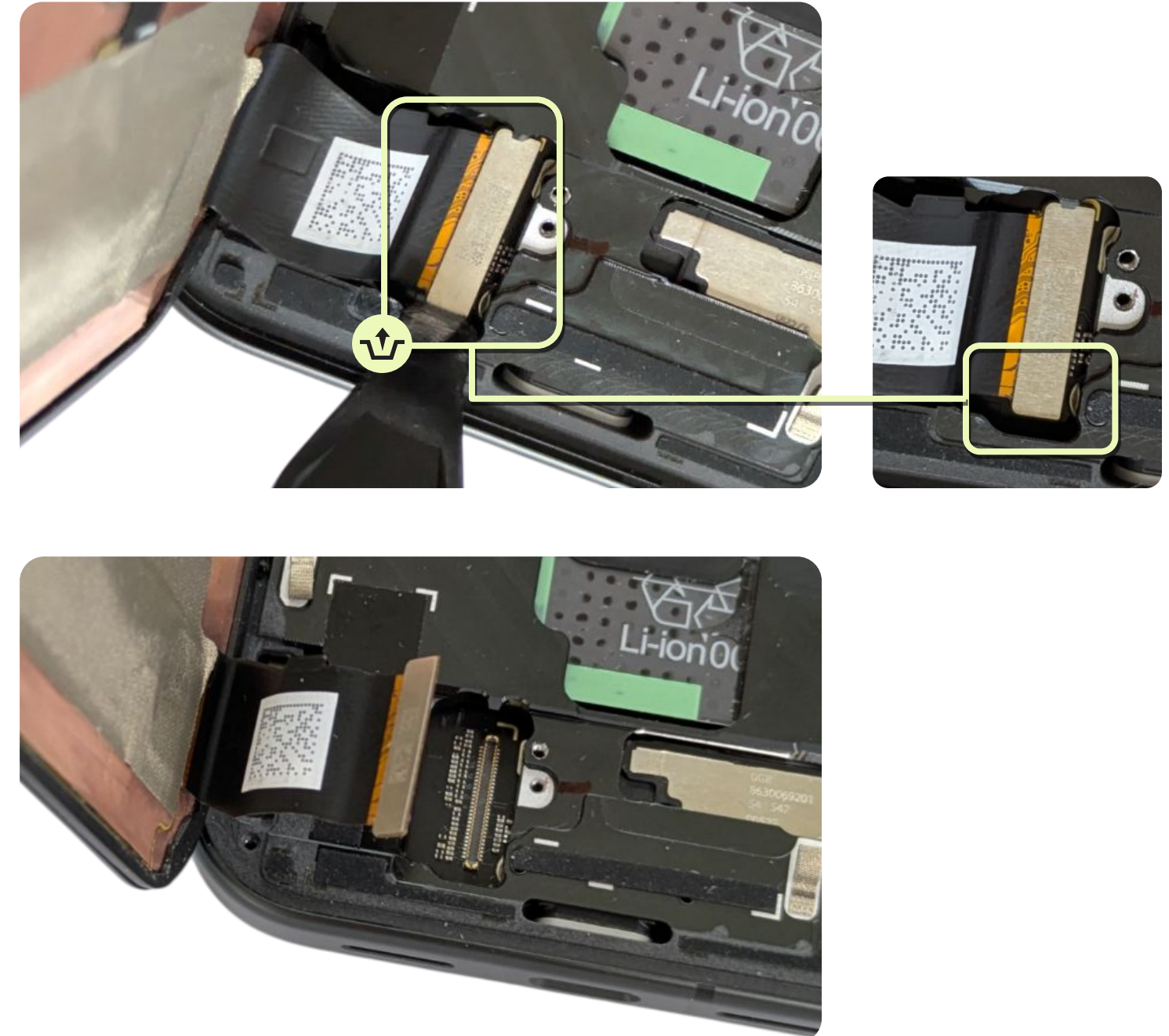
Remove the display metal plate

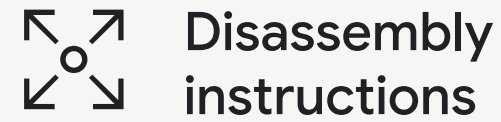
- Use a screwdriver to unfasten the screw that holds the stamping plate to the logic board.
- Use ESD tweezers to shift the stamping plate downward, and remove the stamping plate.



Disconnect the display

Use the ESD spudger to unbuckle the display from the logic board.





Back cover

The display module is connected to the logic board, so be careful with the flex when you open up the device.

Use caution

Use safety gloves when you handle damaged displays, as splinters could cause injury during removal.

Apply protective film to broken glass before removal.

Review all **safety precautions** before you begin work.

Prerequisites

Before you begin a repair, make sure that you **power off** the device and disconnect any charging cables.

Tools

Heating plate

Universal disassembly fixture

Universal press

Universal base plate 12 mm

Universal holder

Universal holder limiting block

Universal supporting rubber

Pixel 10a screen press rubber

Pixel 10a back cover press rubber

Universal press plate 12 mm

ESD tweezers

ESD spudger

ESD pick

Large suction cup

Dust-free cotton swabs

3M AP111 primer

IPA

[Parts](#)

Back cover replacement

Here's the list of parts for the back cover disassembly:

Reuse indications



Reusable without cleaning



Reusable after cleaning



Not reusable after disassembly

Back cover

Multiple part numbers



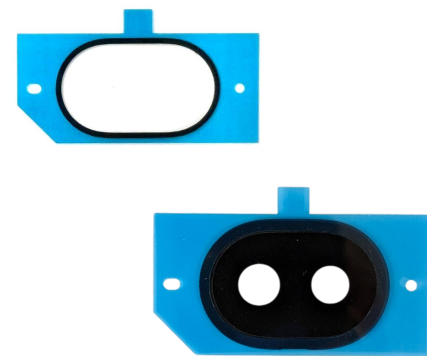
Adhesive enclosure to BC

G806-14912-01



Visor adhesive

G806-14879-01



Adhesive BC service

G806-16133-01



Weaken the adhesives

- Set the heating plate to **158 degrees F (70 degree C)**.
- Place the device such that the back cover faces down, on the heating plate for **10 minutes (600 seconds)** to weaken the glue.



Clamp on

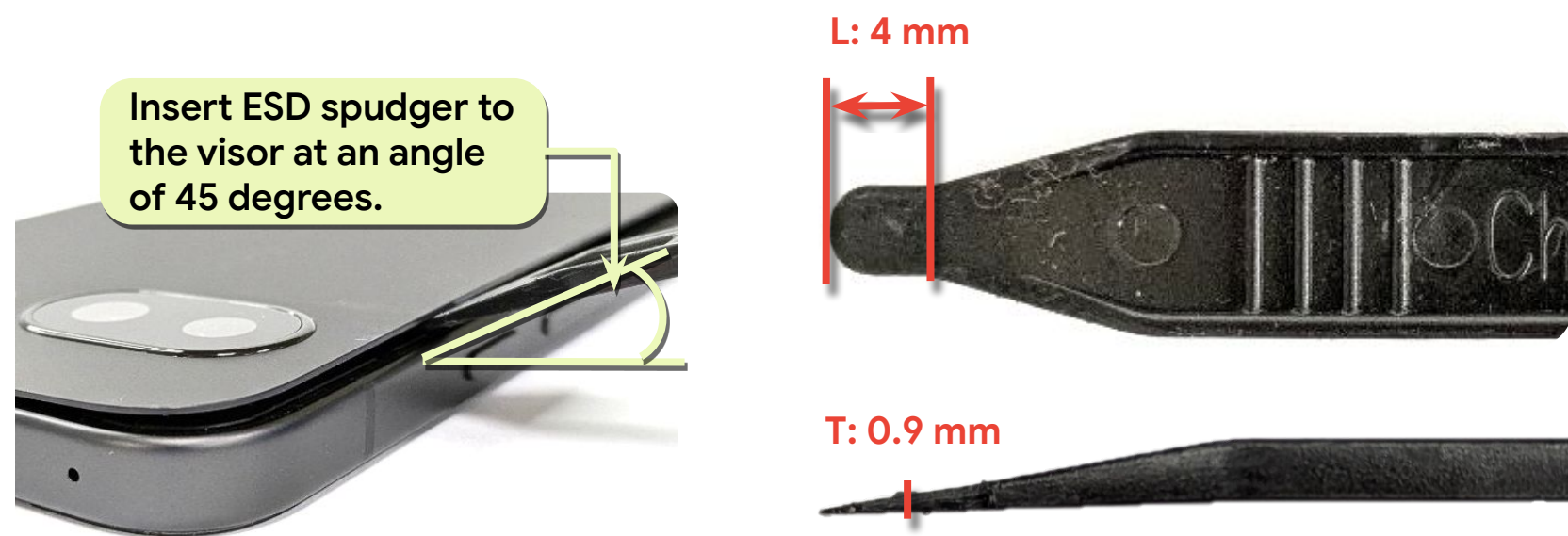
Place the suction cup towards the middle of the device.



Finished! Need assembly instructions? →

Separate the back cover

- Insert and slide the ESD spudger around the back cover to remove the PSA as shown in Fig 1 in yellow. *Don't* insert deeper than 4 mm.
- Use the ESD spudger to trim off five individual PSA as shown in Fig1 in red. *Don't* insert deeper than 13 mm.
- Use the ESD spudger to remove the PSA around visor as shown in Fig 1 in green. *Don't* insert deeper than 37 mm.





Inner housing

Use caution

Review all **safety precautions** before you begin work.

Prerequisites

Here's the list of components that you should remove first:

- **Back cover**

Tools

Universal base plate 12 mm

Universal holder

Universal holder limiting block

Universal supporting rubber

Screwdriver

Adjustable torque screwdriver

ESD tweezers

ESD spudger

Cotton swabs


IPA


[Parts](#)


Inner housing replacement

Here's the list of parts for the inner and antenna housing disassembly:

Reuse indications

 Reusable without cleaning

 Reusable after cleaning

 Not reusable after disassembly

Inner housing

G949-01588-00



Screw

G250-07429-00



Screw

G250-07430-00



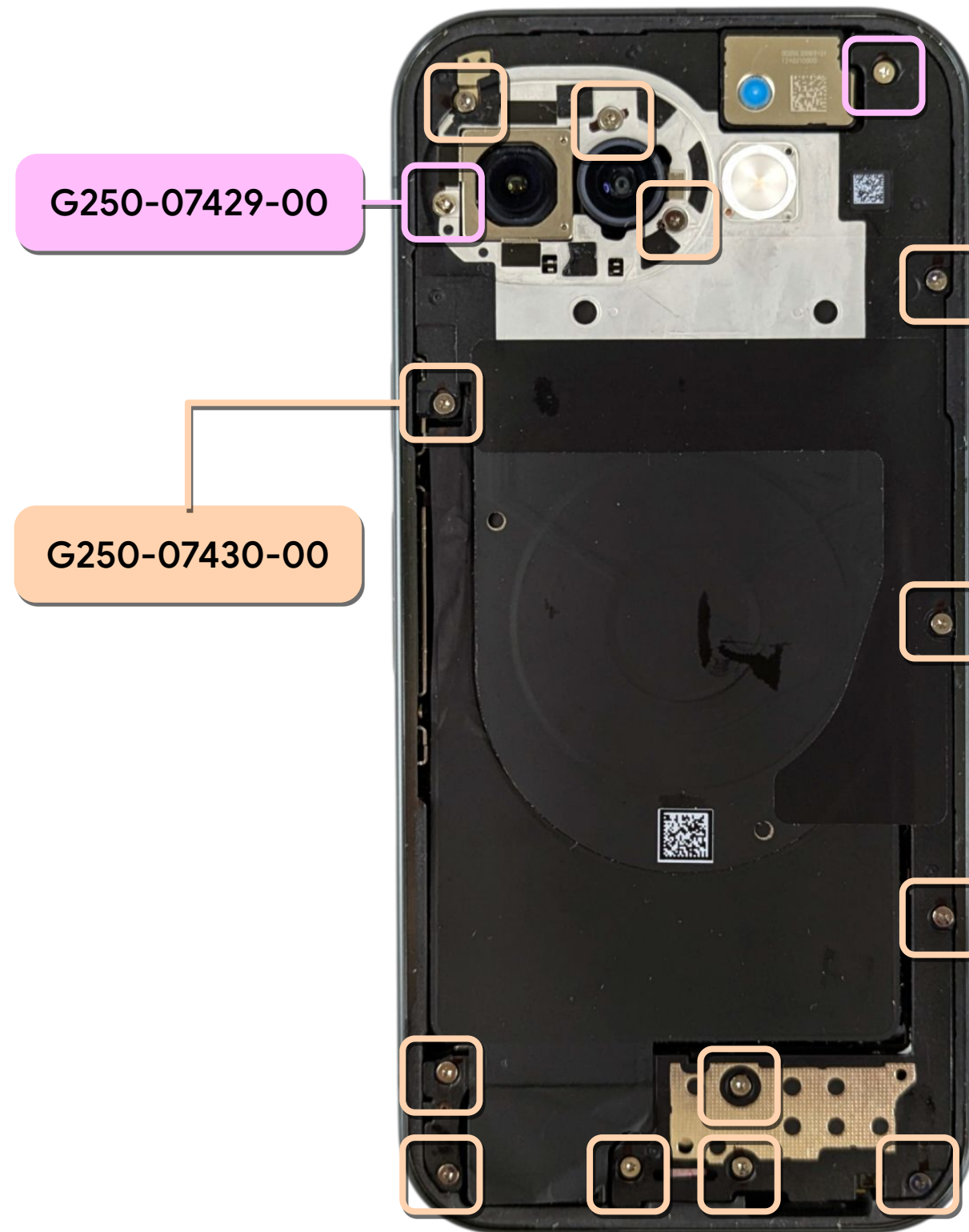
RCAM trim, IH, STA5

G806-14884-01



Remove the screws

Unscrew the 15 screws that attach the inner housing to the logic board.



Finished! Need assembly instructions? →

Remove the inner housing

Use an ESD tweezers to lift up the inner housing.





Battery



Use caution

Review all **safety precautions** before you begin work.



Prerequisites

Here's the list of components that you should remove first:

- **Back cover**
- **Inner housing**



Tools

Heat plate	Universal press plate 12 mm
Universal press	Screwdriver
Universal disassembly fixture	Adjustable torque screwdriver
Universal base plate 12 mm	ESD tweezers
Universal holder	ESD spudger
Universal holder limiting block	Cotton swabs
Universal supporting rubber	IPA
Pixel 10a battery press rubber	

[Parts](#)

Battery

Here's the list of parts for the battery disassembly:

Reuse indications



Reusable without cleaning



Reusable after cleaning



Not reusable after disassembly

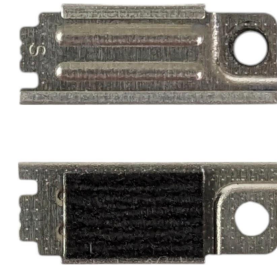
Replacement battery

G949-0159X-00



Stamping plate battery

G730-09926-00



Screw

G250-06929-01



Side key FPC mylar

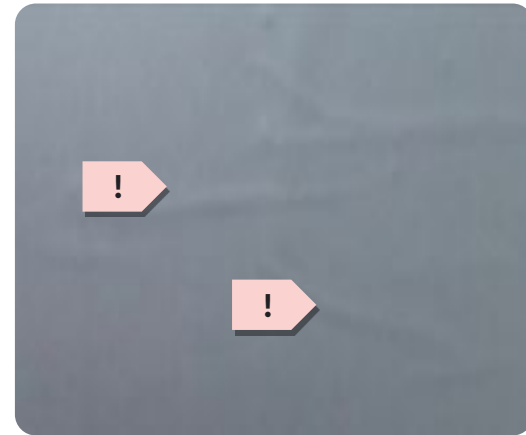
G806-15827-00



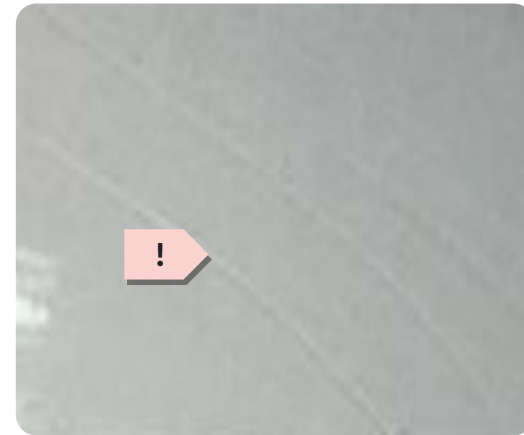
Use caution 



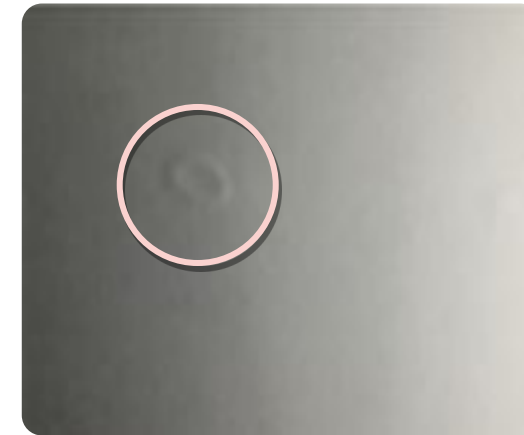
Pouch damage



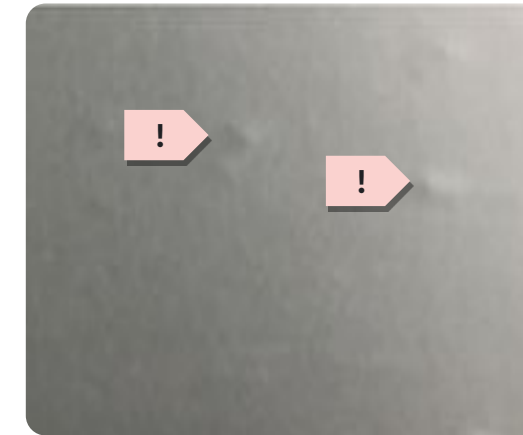
Line protrusion



Scratch



Contamination mark



Dot protrusion



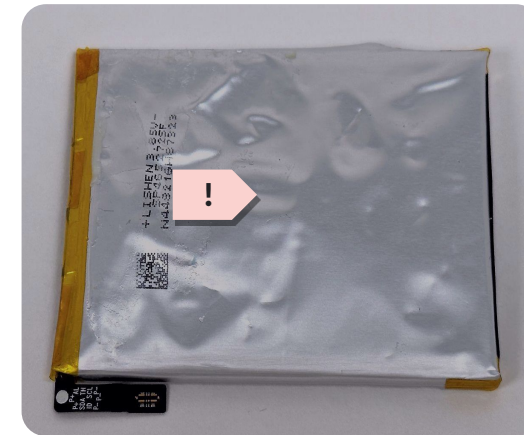
Dent



Bubbling



Imprinted line



Swelling or electrolyte leakage

*These are examples of potentially dangerous battery conditions but *don't* reflect all possible dangerous conditions. Please follow the general safety guidance outlined in this document.

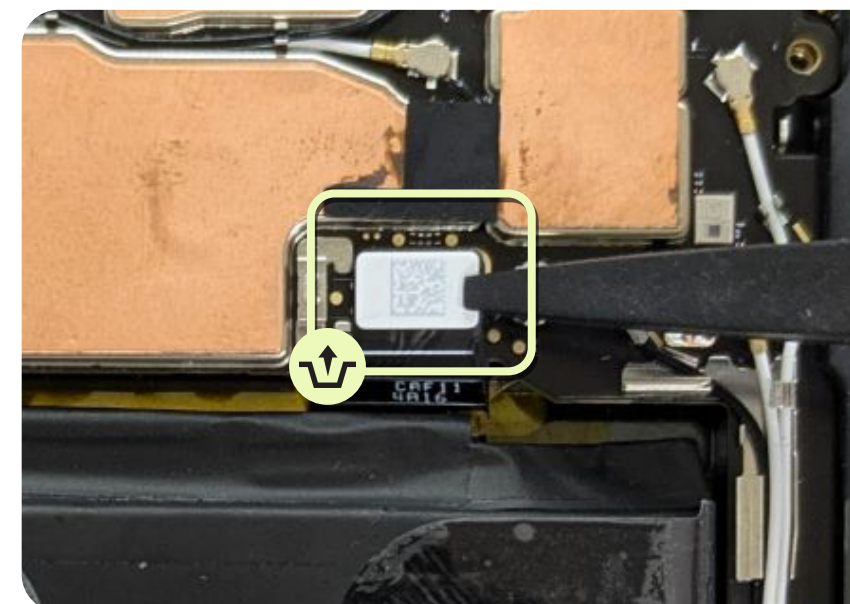
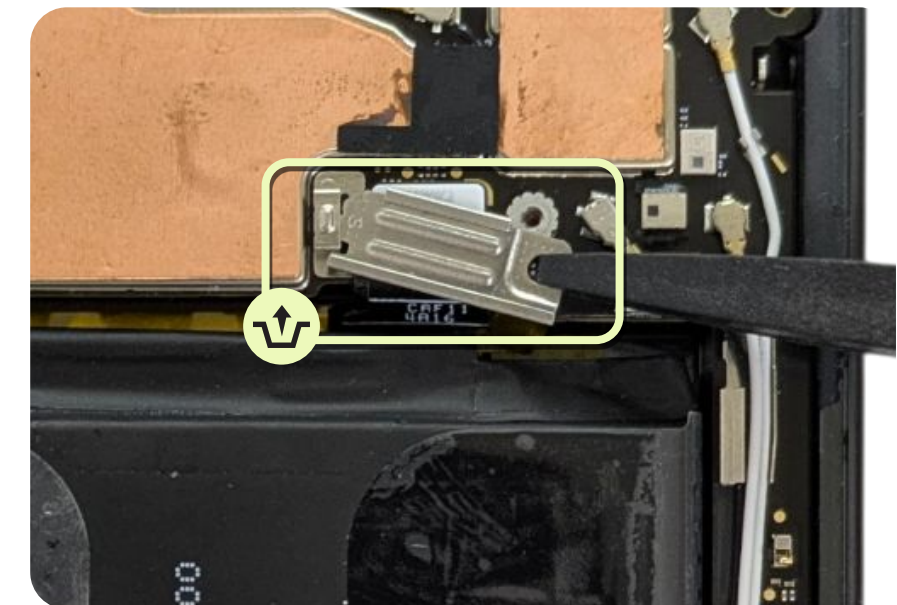
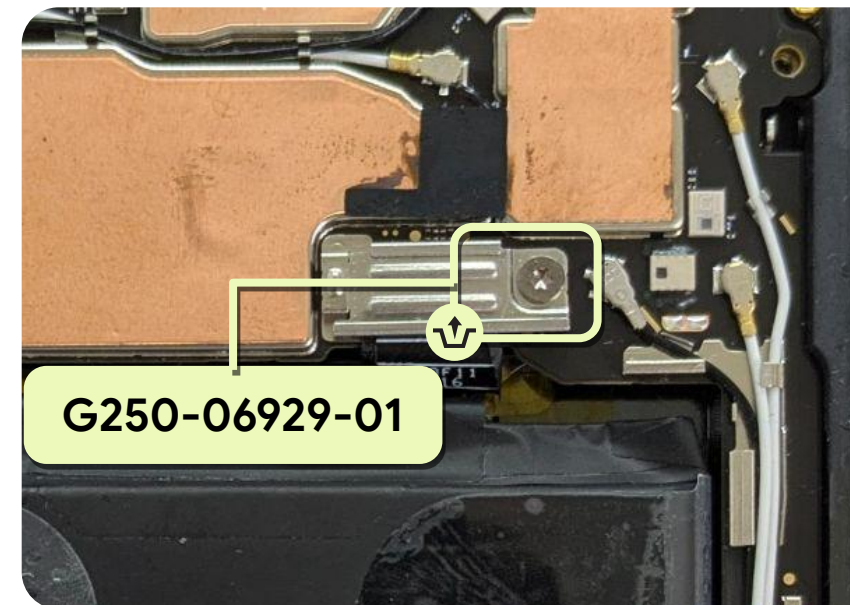
Remove the BTB stamping plate

- Unfasten the screw to disconnect the battery stamping plate from the logic board.
- Use ESD tweezers to extract the BTB metal plate from the logic board and disconnect the battery FPC.



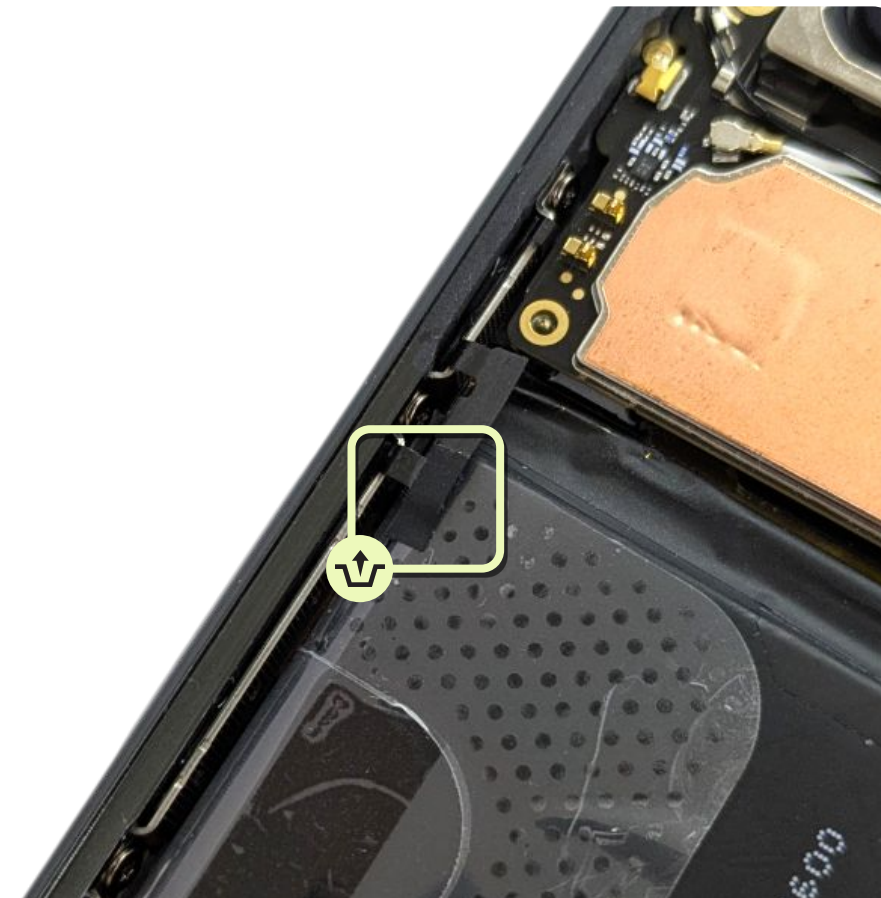
Use caution

Be careful. *Don't* touch any of the capacitors, resistors, and other parts nearby.



Remove the SLAM FPC mylar

Peel off the SLAM FPC mylar from the SLAM FPC with your hand.



Lift the battery wrap pull tab

Fig 1

- Raise up the #1 and #2 pull tabs, as shown in Fig 1 and Fig 2.
- Make sure that the pull tab is fully detached from the battery as shown in Fig 3.



Note

Detach #2 tab first if you encounter difficulty when you detach pull tab#1.



Fig 2



Fig 3



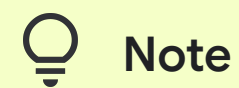
Finished! Need assembly instructions? →

Wrap broken? Follow the next instructions!



Remove the battery

- Flex the pull tab #1 outward and grasp it against the enclosure, and grab the #3 green color area to pull out the battery as shown in Fig 1.
- Pull out the battery slowly as shown in Fig 2. *Don't* attempt to hold or apply force on the #2 indicator.
- Drag the battery in opposite direction horizontally without tilting to separate bottom PSA from the enclosure as shown in Fig 3.



Note

Grab the #3 pull tab at the bottom, as close to the battery as possible.



Use caution

Keep small screws and sharp objects away from the battery.

1. *Don't reuse the part.*
2. *Discharge the battery to 30% or below before you attempt to remove it from the device.*

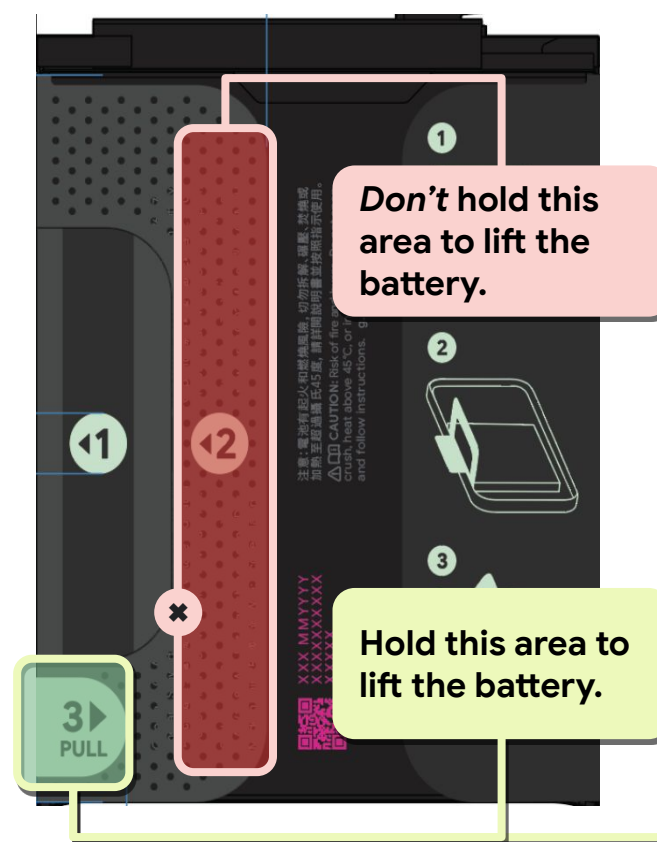


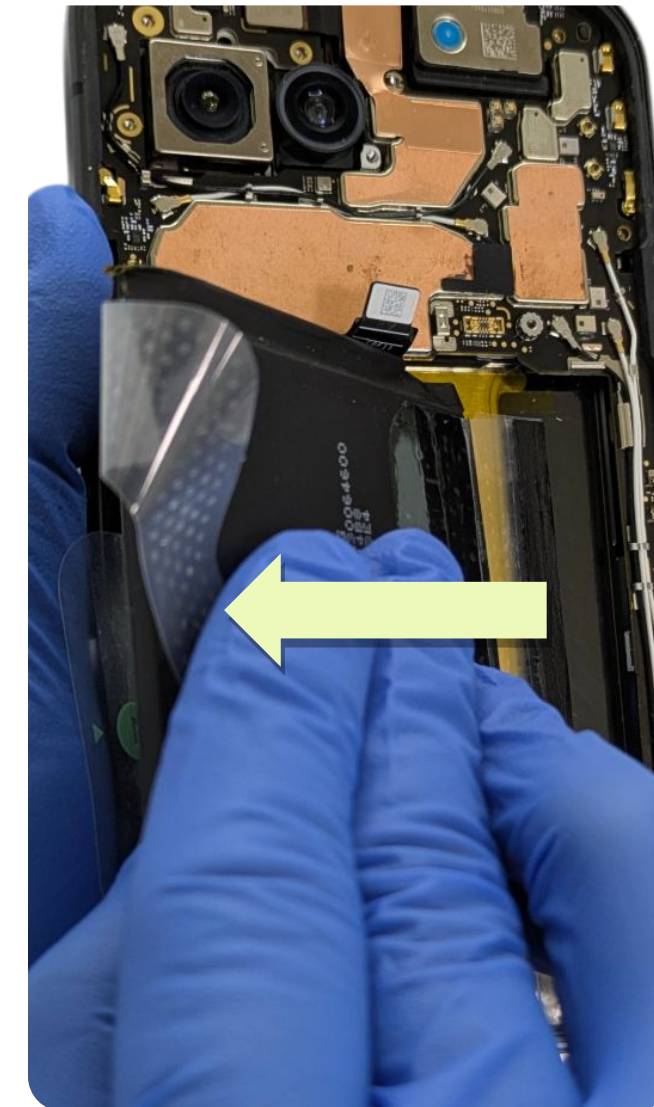
Fig 1



Fig 2



Fig 3



Remove the battery

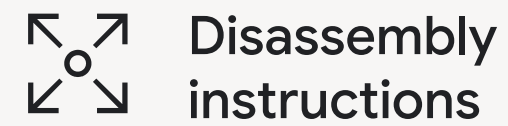
Use the remaining wrap area to pull out the battery slowly if the wrap tears or rips.



Note

If there isn't enough space, we could add extra tape to increase the grab area.





Front camera



Use caution

Review all **safety precautions** before you begin work.



Prerequisites

Here's the list of components that you should remove first:

- **Back cover**
- **Inner housing**



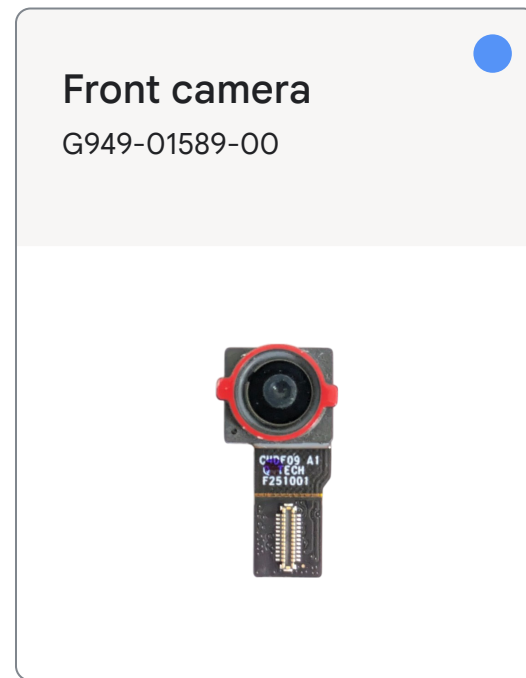
Tools

ESD tweezers
ESD spudger

[Parts](#)

Front camera

Here's the list of parts for the front camera disassembly:



Reuse indications



Reusable without cleaning



Reusable after cleaning

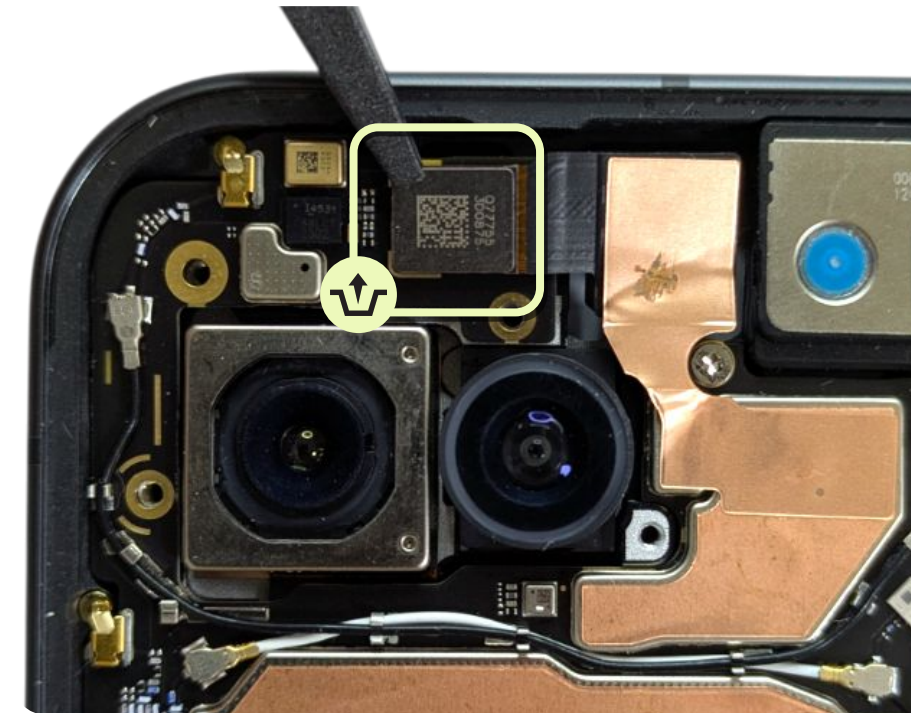


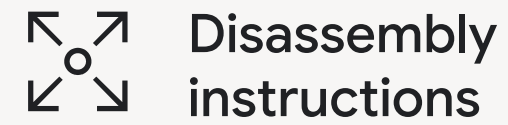
Not reusable after disassembly

Finished! Need assembly instructions? →

Remove the front camera

- Use ESD tweezers to disconnect the front camera from the logic board.
- Follow the direction illustrated in the picture to detach the camera from the logic board.





Logic board

Use caution

Review all **safety precautions** before you begin.

Prerequisites

Here's the list of components that you should remove first:

- **Back cover**
- **Inner housing**

Tools

Universal base plate 12 mm
Universal holder
Universal holder limiting block
Universal supporting rubber
Adjustable torque screwdriver
ESD spudger
ESD tweezers
Universal disassembly fixture
SIM card ejection pin

Remove the SIM tray

- Make sure that the device is turned off before you attempt this step.
- Use the SIM card ejection pin to remove the SIM tray from the device.





Parts

Logic board

Reuse indications



Reusable without cleaning




Reusable after cleaning

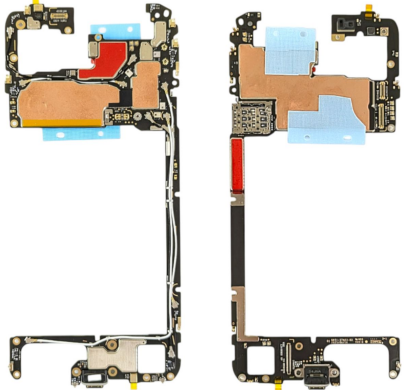


Not reusable after disassembly

Here's the list of parts for the logic board disassembly:

Logic board 

Multiple part numbers



FCAM copper foil 


G806-15112-00




Conductive fabric washer 

G806-14924-00



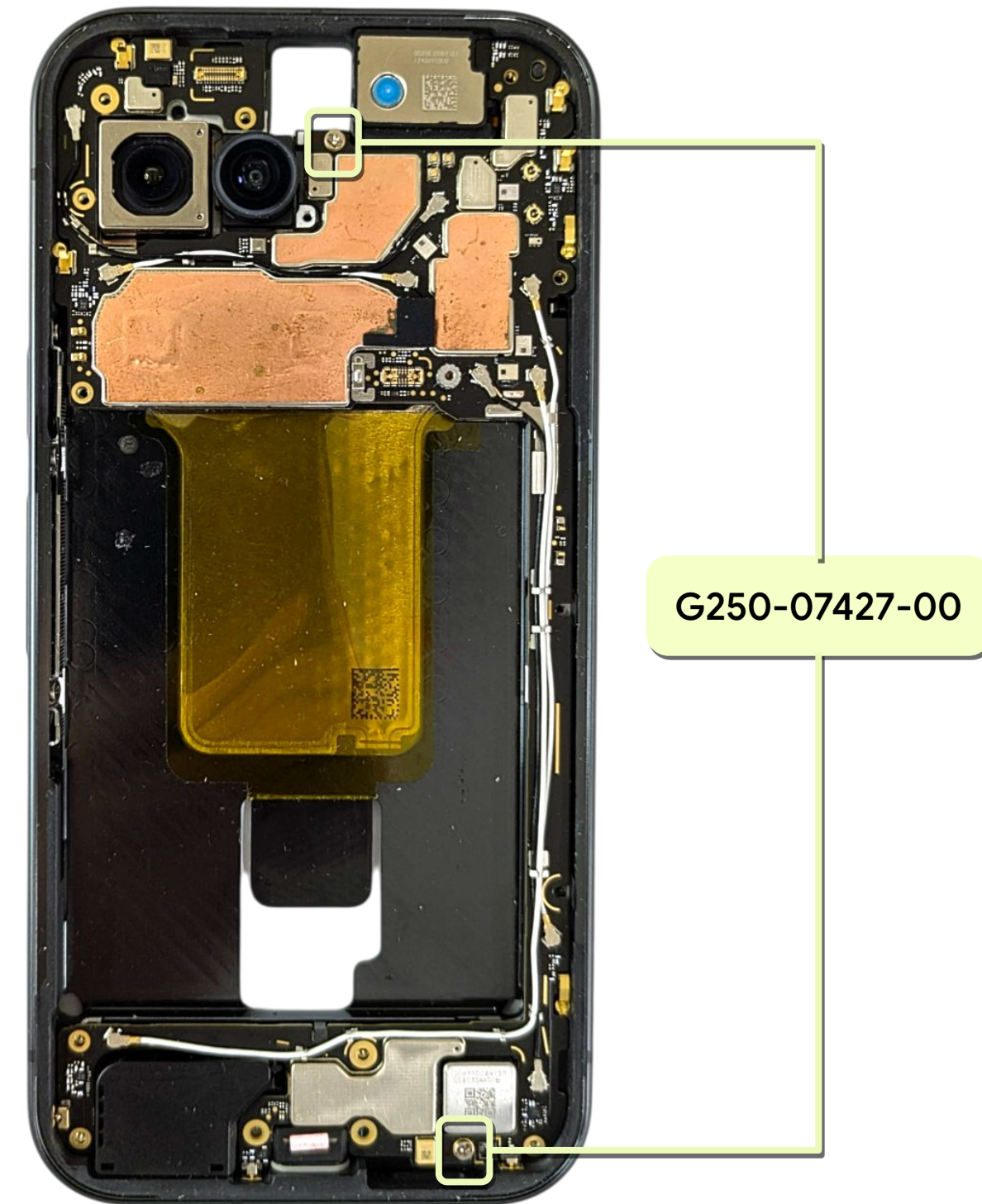
Screw 

G250-07427-00



Remove the logic board screws

Use a screwdriver to loosen the two screws that hold the logic board.



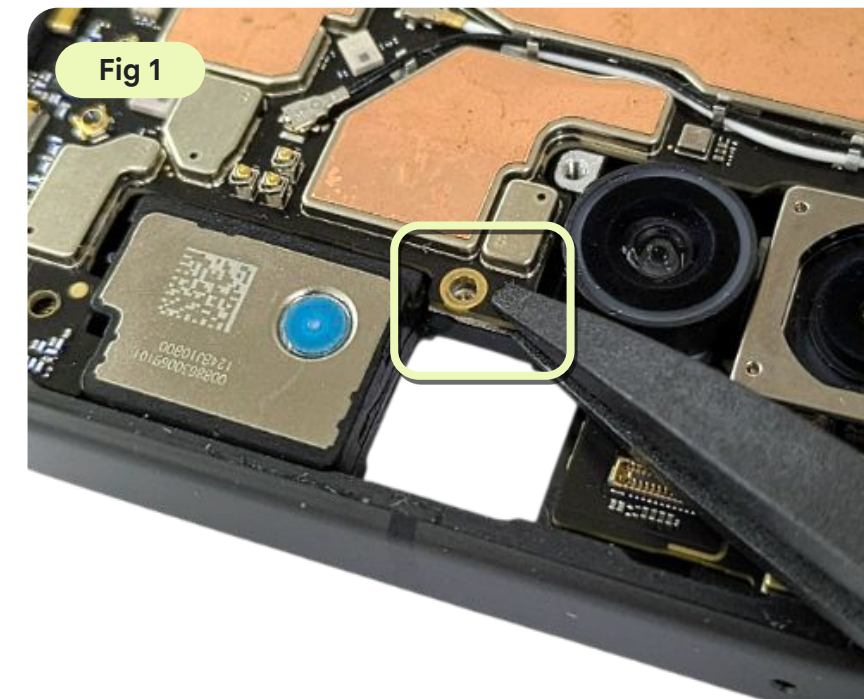
Finished! Need assembly instructions? →

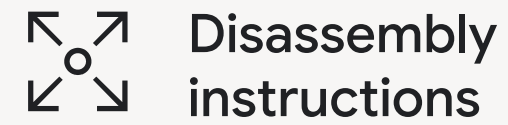
Remove the logic board

- Flip up the logic board from the screw hole above the camera with ESD tweezer as shown in Fig 1.
- Raise the logic board, detach the USB module from the socket, and separate the logic board from the enclosure as shown in Fig 2.

⚠ Use caution

The MLB assembly process requires the display and logic board to be removed together.





Rear camera

Use caution

Review all **safety precautions** before you begin work.

Prerequisites

Here's the list of components that you should remove first:

- **Back cover**
- **Inner housing**
- **Logic board**

Tools


ESD tweezers
ESD spudger





Parts

Rear camera

Reuse indications

 Reusable without cleaning

 Reusable after cleaning

 Not reusable after disassembly

Here's the list of parts for the rear camera disassembly:

Wide rear camera

G949-01590-00



Ultra wide rear camera

G949-01591-00



P-sensor rubber

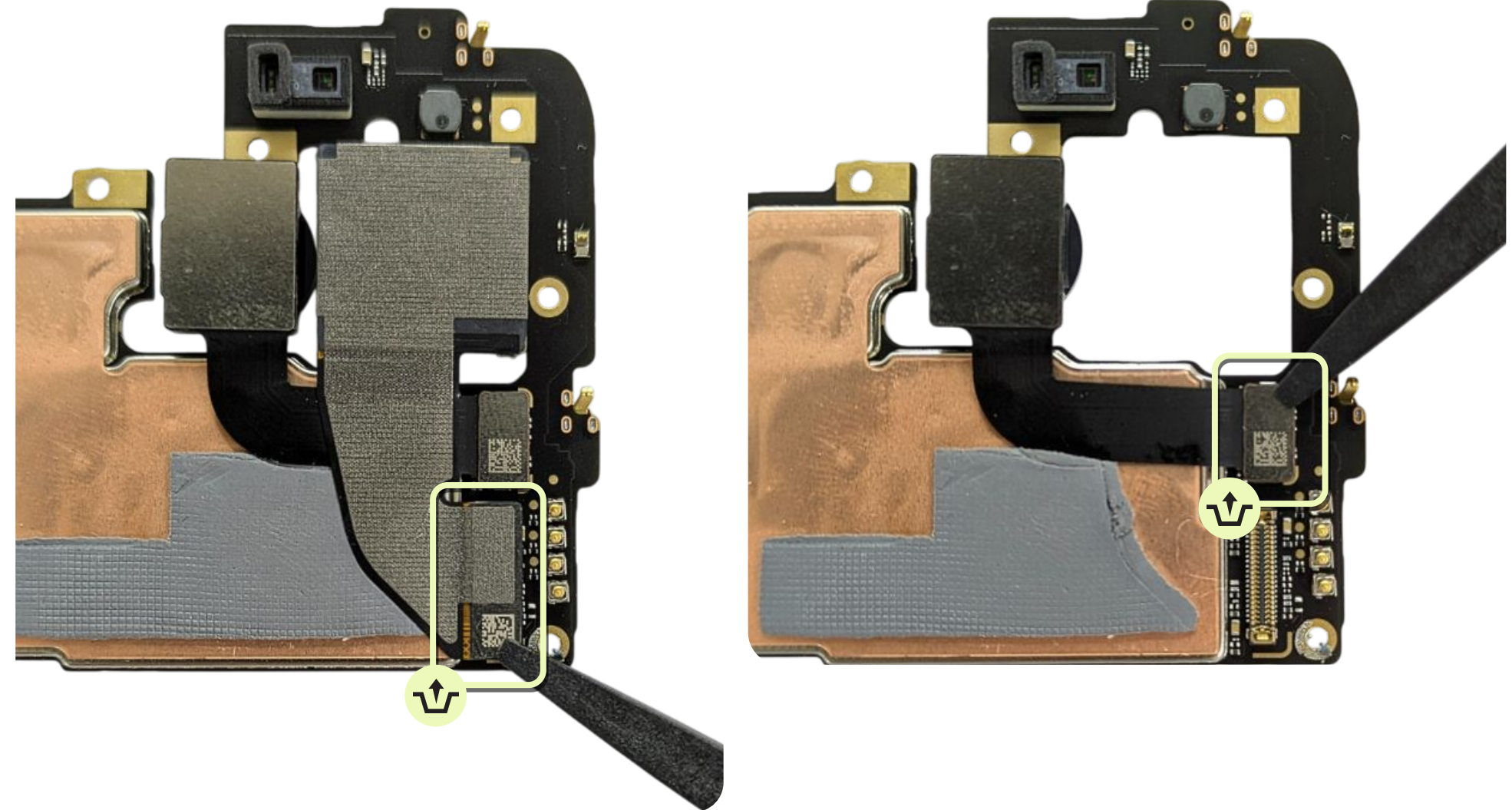
G806-13064-01

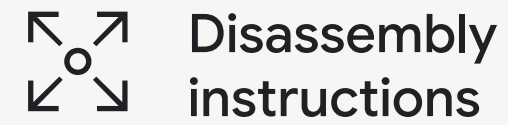


Finished! Need assembly instructions? →

Detach the WCAM and UWCAM

Use ESD tweezers to disconnect the wide and ultra wide camera from the logic board.





Bottom speaker

Use caution

Review all **safety precautions** before you begin work.

Prerequisites

Here's the list of components that you should remove first:

- **Back cover**
- **Inner housing**
- **Logic board**

Tools


Universal base plate 12 mm
Universal holder
Universal holder limiting block
Universal supporting rubber
ESD spudger
ESD tweezers





Parts

Bottom speaker

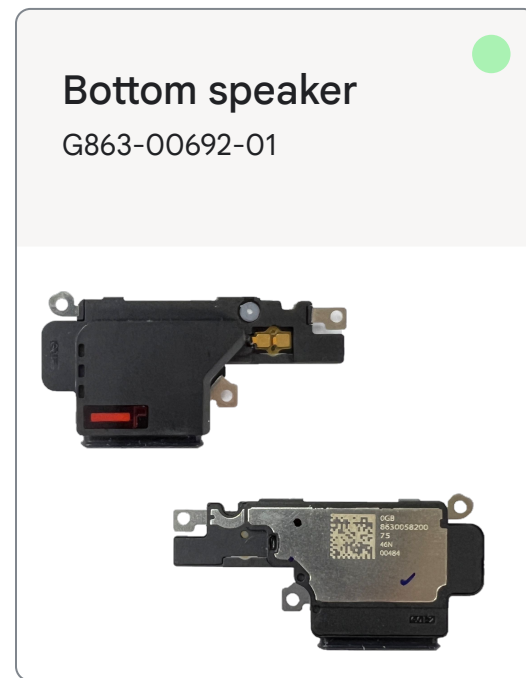
Reuse indications

 Reusable without cleaning

 Reusable after cleaning

 Not reusable after disassembly

Here's the list of parts for the bottom speaker disassembly:



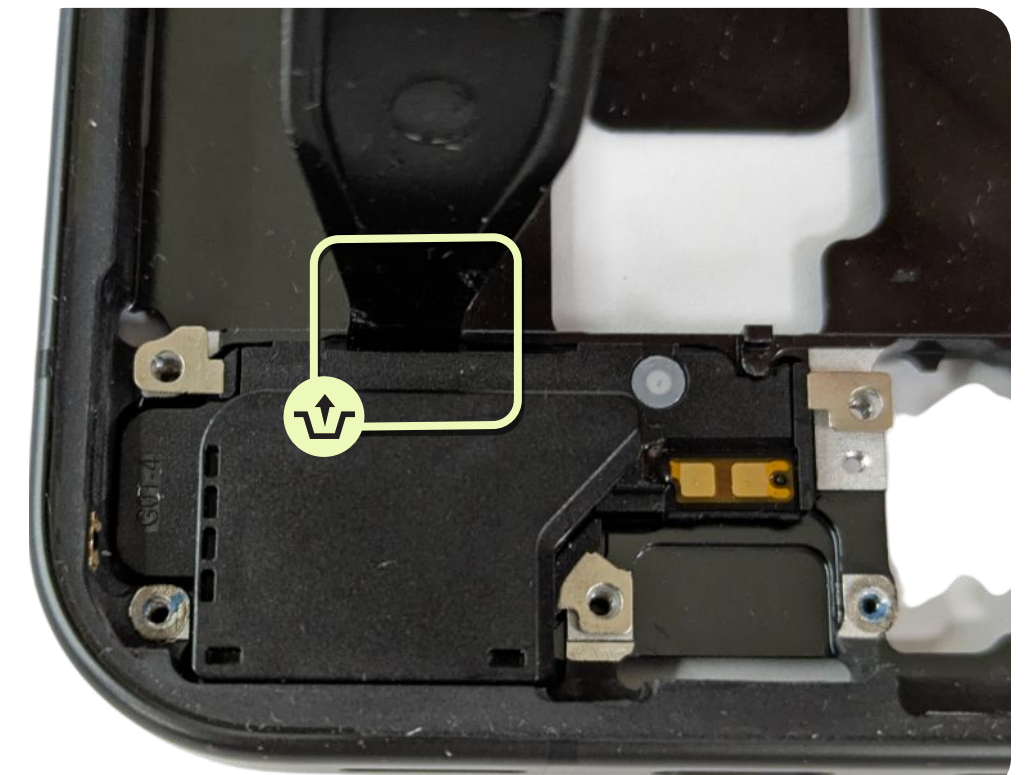
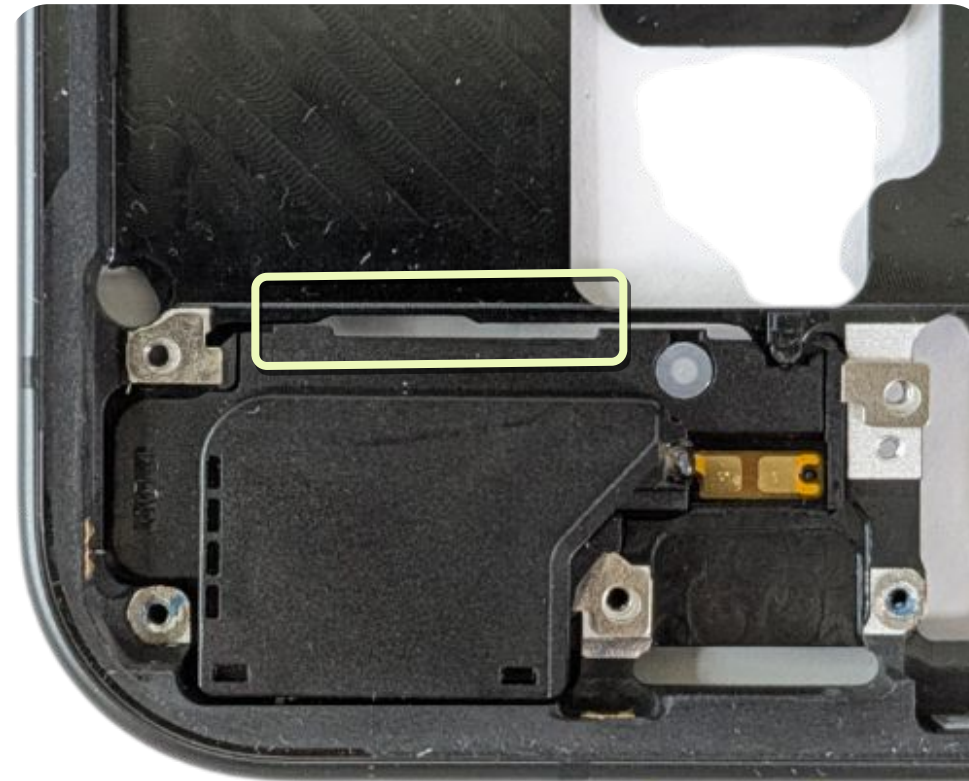
Finished! Need assembly instructions? →

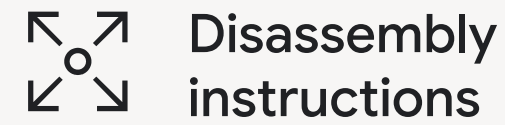
Remove the bottom speaker

Use an ESD spudger to lift up the bottom speaker from the designated location.

⚠ Use caution

Keep the small screws and sharp objects away from the battery.





Top speaker

Use caution

Review all **safety precautions** before you begin work.

Prerequisites

Here's the list of components that you should remove first:

- **Back cover**
- **Inner housing**
- **Logic board**

Tools

Universal base plate 12 mm
Universal holder
Universal holder limiting block
Universal supporting rubber

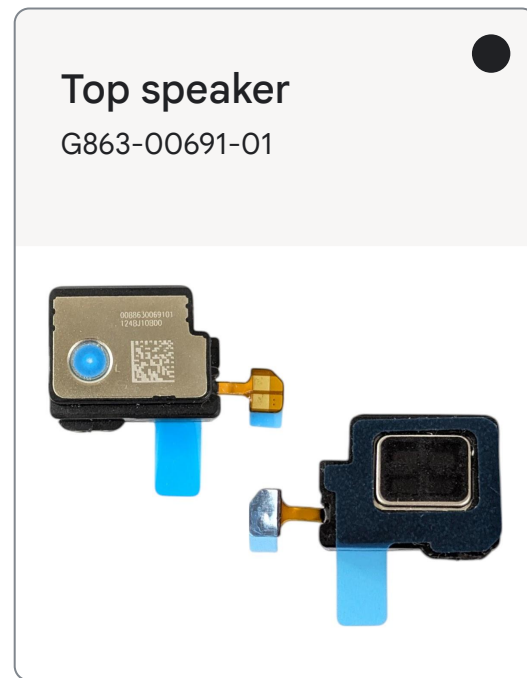
Adjustable torque screwdriver
ESD tweezers



Parts

Top speaker

Here's the list of parts for the top speaker disassembly:



Reuse indications



Reusable without cleaning



Reusable after cleaning

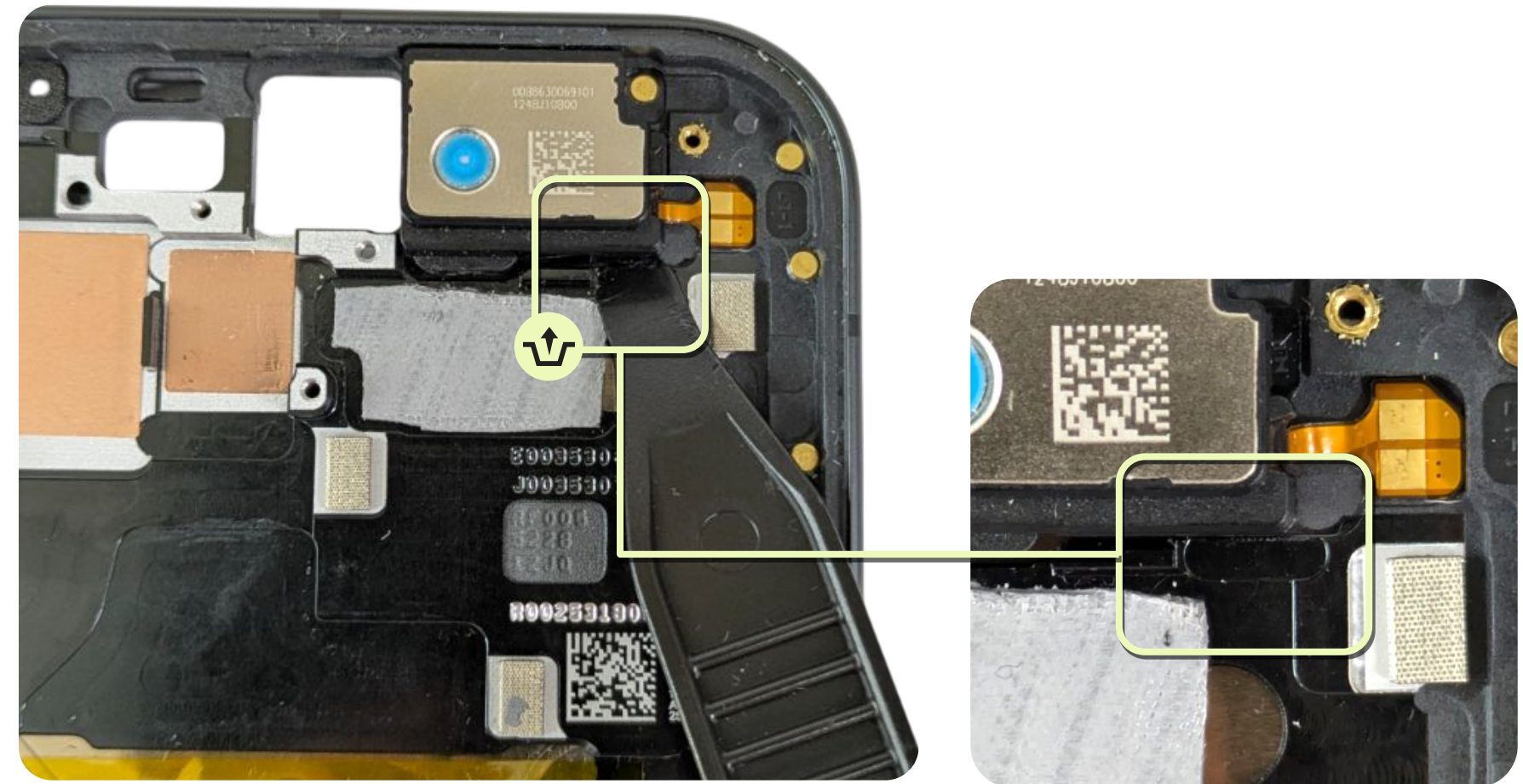


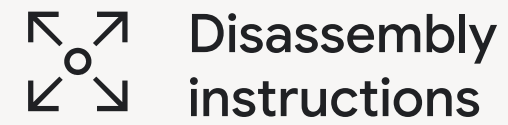
Not reusable after disassembly

Finished! Need assembly instructions? →

Remove the top speaker

Use an ESD spudger to lift up the top speaker from the designated location.





Vibrator

Use caution

Review all **safety precautions** before you begin work.

Prerequisites

Here's the list of components that you should remove first:

- **Back cover**
- **Inner housing**
- **Logic board**


Tools


Universal base plate 12 mm	Flathead screw
Universal holder	IPA
Universal holder limiting block	Cotton swabs
Universal supporting rubber	
ESD spudger	
ESD tweezers	


 **Parts**

Vibrator

Reuse indications

 Reusable without cleaning

 Reusable after cleaning

 Not reusable after disassembly

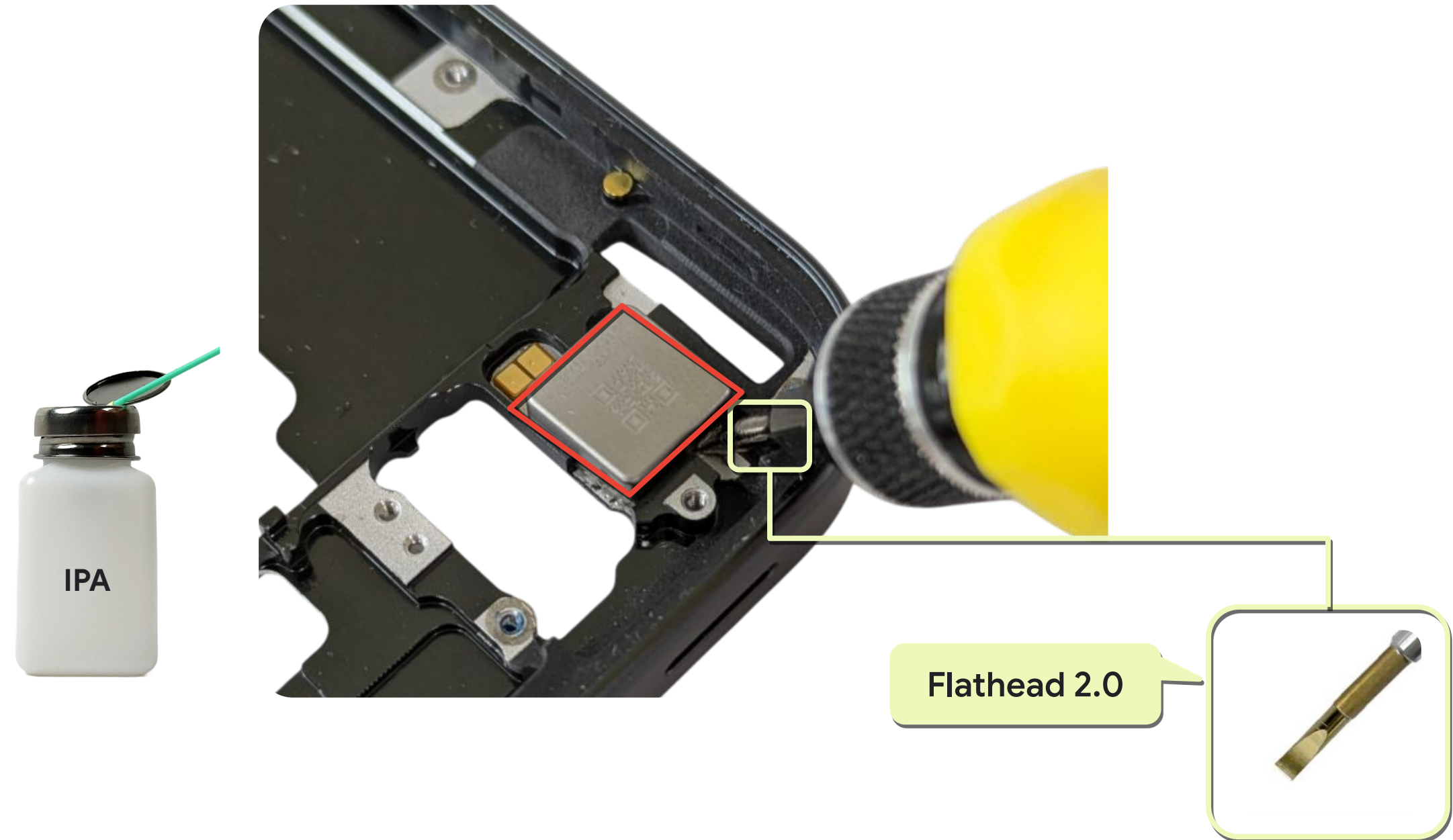
Here's the list of parts for the vibrator disassembly:

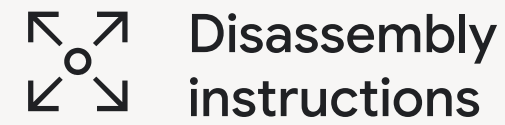


Finished! Need assembly instructions? →

Remove the vibrator

- Apply IPA around the vibrator to soften the adhesive underneath.
- Scoop up the vibrator with a flathead 2.0 tip.





Mic 1 holder

Use caution

Review all **safety precautions** before you begin work.

Prerequisites

Here's the list of components that you should remove first:

- **Back cover**
- **Inner housing**
- **Logic board**

Tools

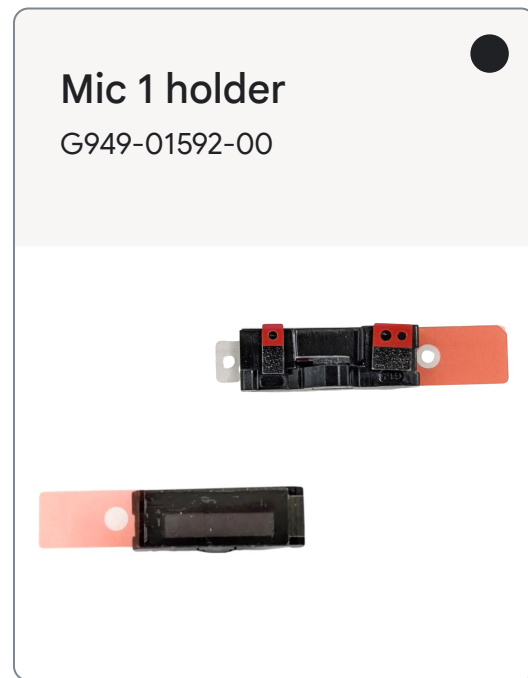
Universal base plate 12 mm	Flathead screw
Universal holder	IPA
Universal holder limiting block	Cotton swabs
Universal supporting rubber	
ESD spudger	
ESD tweezers	



Parts

Mic 1 holder

Here's the list of parts for the mic 1 holder disassembly:



Reuse indications

● Reusable without cleaning

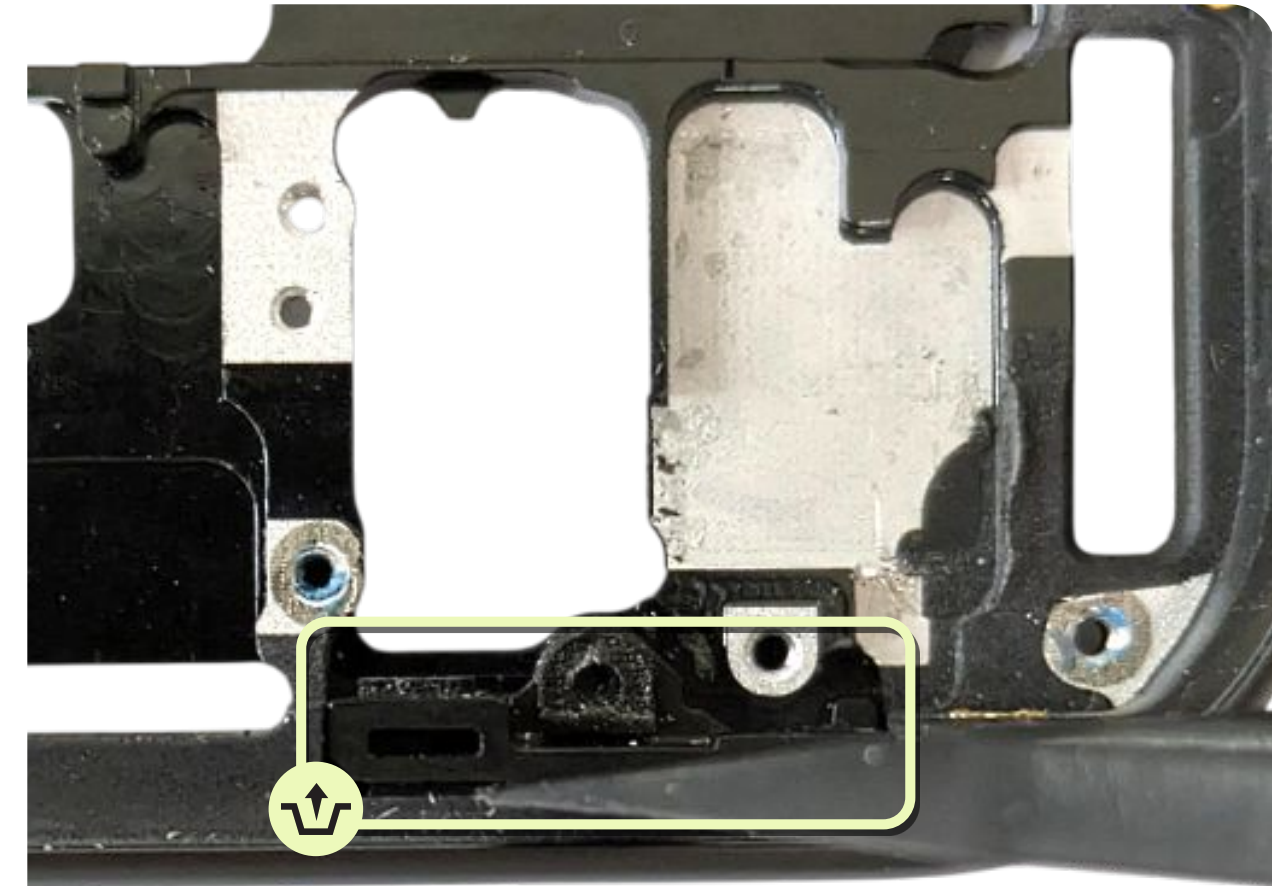
● Reusable after cleaning

● Not reusable after disassembly

Finished! Need assembly instructions? →

Remove the mic 1 holder

Use an ESD spudger to separate the mic 1 holder from the enclosure.





Enclosure



Use caution

Review all **safety precautions** before you begin work.



Prerequisites

Here's the list of components that you should remove first:

- **Display**
- **Back cover**
- **Inner housing**
- **Battery**
- **Logic board**
- **Bottom speaker**
- **Top speaker**
- **Vibrator**
- **Mic 1 holder**



Tools

Universal base plate 12 mm	IPA
Universal holder	Cotton swabs
Universal holder limiting block	
Universal supporting rubber	
ESD spudger	
ESD tweezers	



Parts

Finished! Need assembly instructions? →

Enclosure

Reuse indications

● Reusable without cleaning

● Reusable after cleaning

● Not reusable after disassembly

Here's the list of parts for the enclosure disassembly:

Enclosure ●
Multiple part numbers



Adhesive enclosure to CG ●
G806-17027-01



Adhesive enclosure to BC ●
G806-14912-01



Thermal pad, SoC MLB ●
G806-15068-01



Thermal pad E-noise MLB ●
G806-15069-01





Pixel 10a repair manual

Assembly

Enclosure

Rear camera

Inner housing

Mic 1 holder

Logic board

Back cover

Vibrator


Display

Top speaker

Front camera

Bottom speaker

Battery

 Assembly
instructions

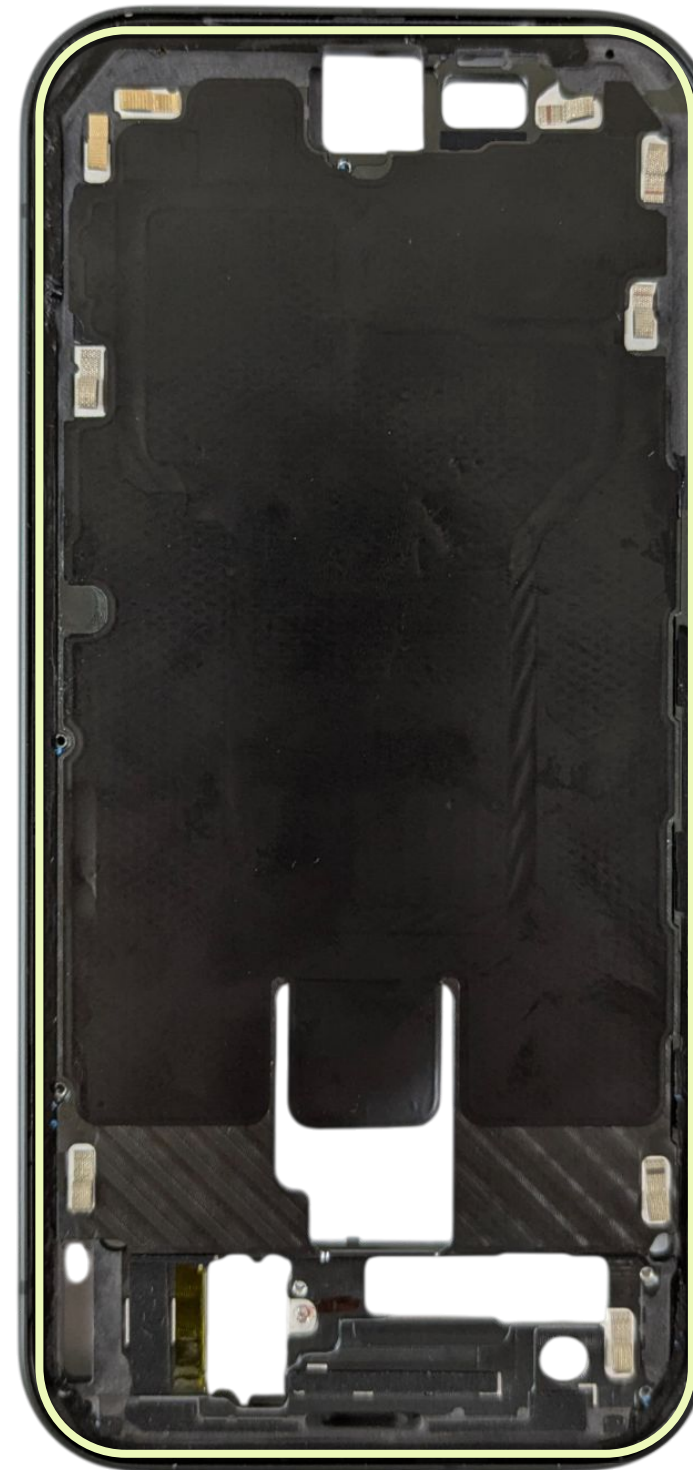
Enclosure

Rework on the PSA area

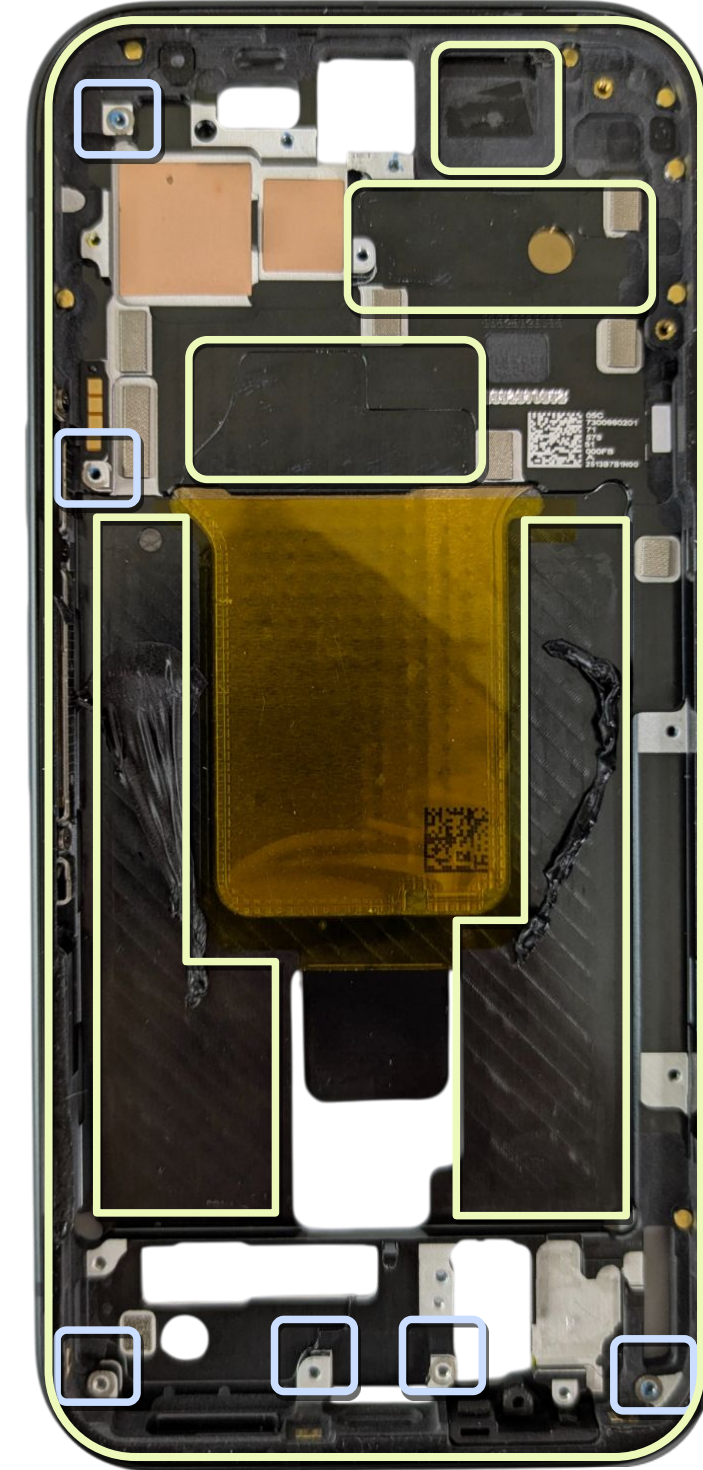
(for reused enclosure)

- Use an ESD spudger or electric glue remover tool to carefully clean the adhesive from the enclosure.
- Wipe the surface with a cotton swab and IPA to remove the remaining residues.
- The six locations in blue only require cleaning. *Don't* paste new washers at these locations. The corresponding washers are located on the logic board.

Display side



Back cover side



Apply the AP111 primer on the enclosure

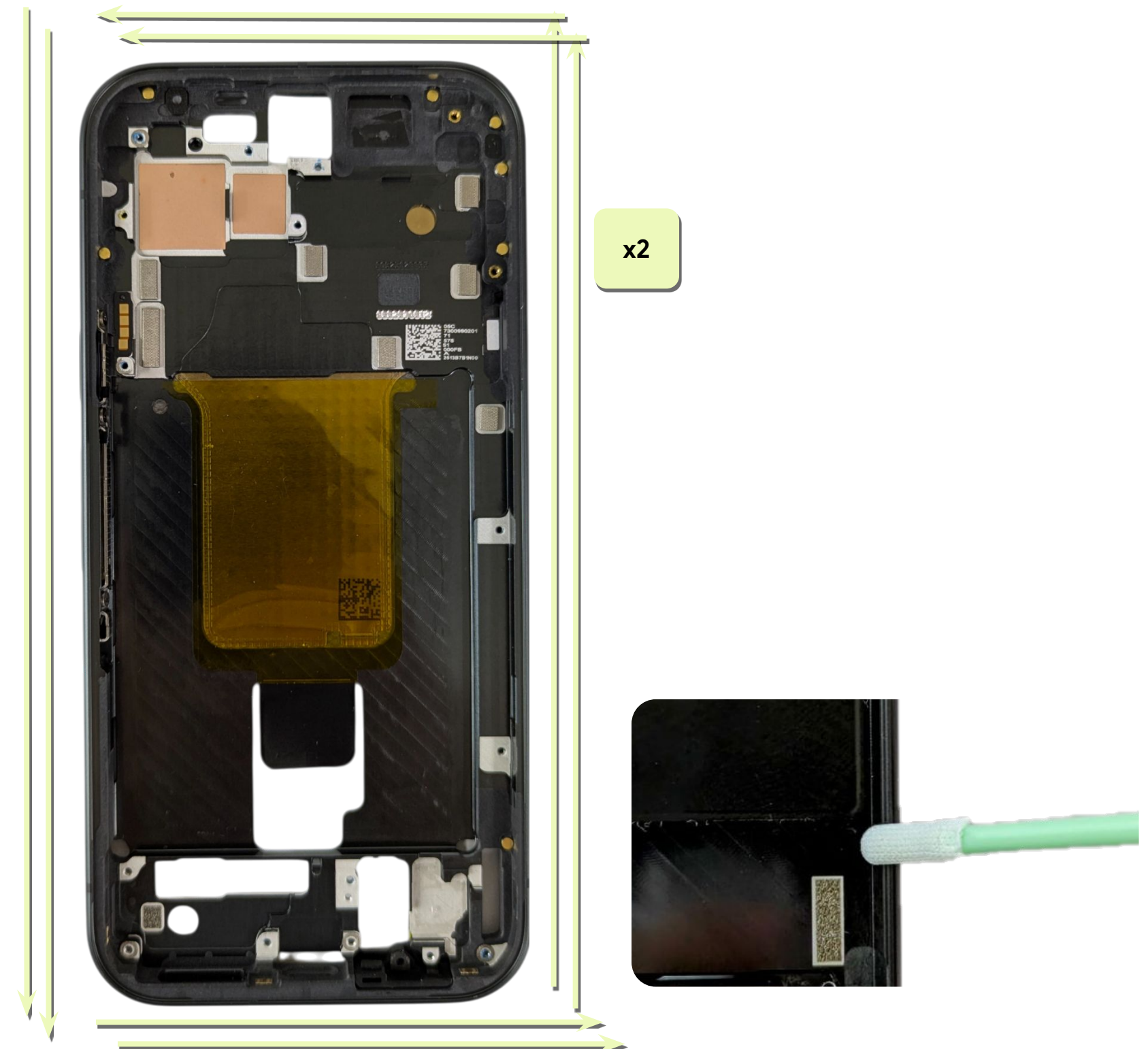
(for a reused enclosure)

Apply the AP111 primer around the entire enclosure twice.



Use caution

1. Don't apply excessive primer. It could overflow.
2. Apply the primer in one direction. Don't rub back and forth.
3. The assembly should be completed within 25 minutes after you apply the primer.

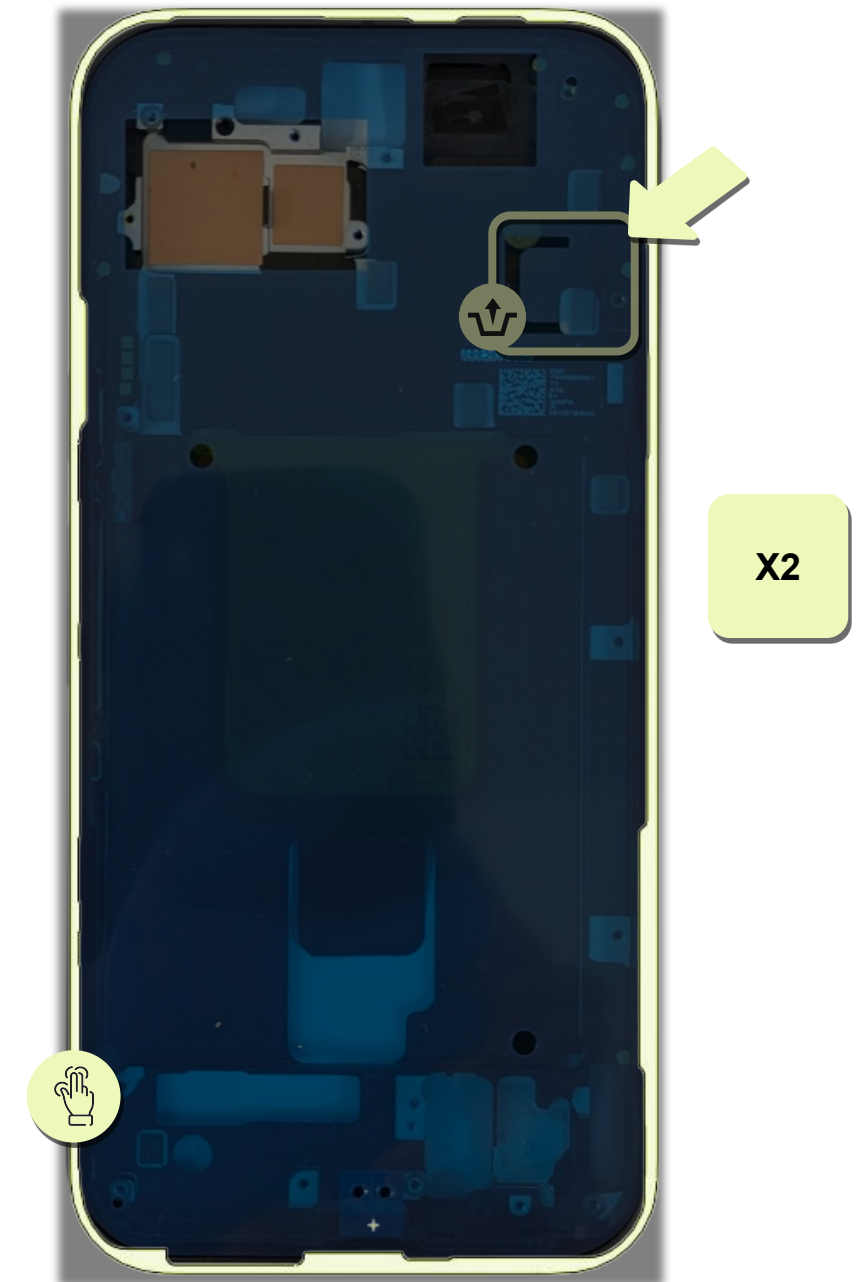
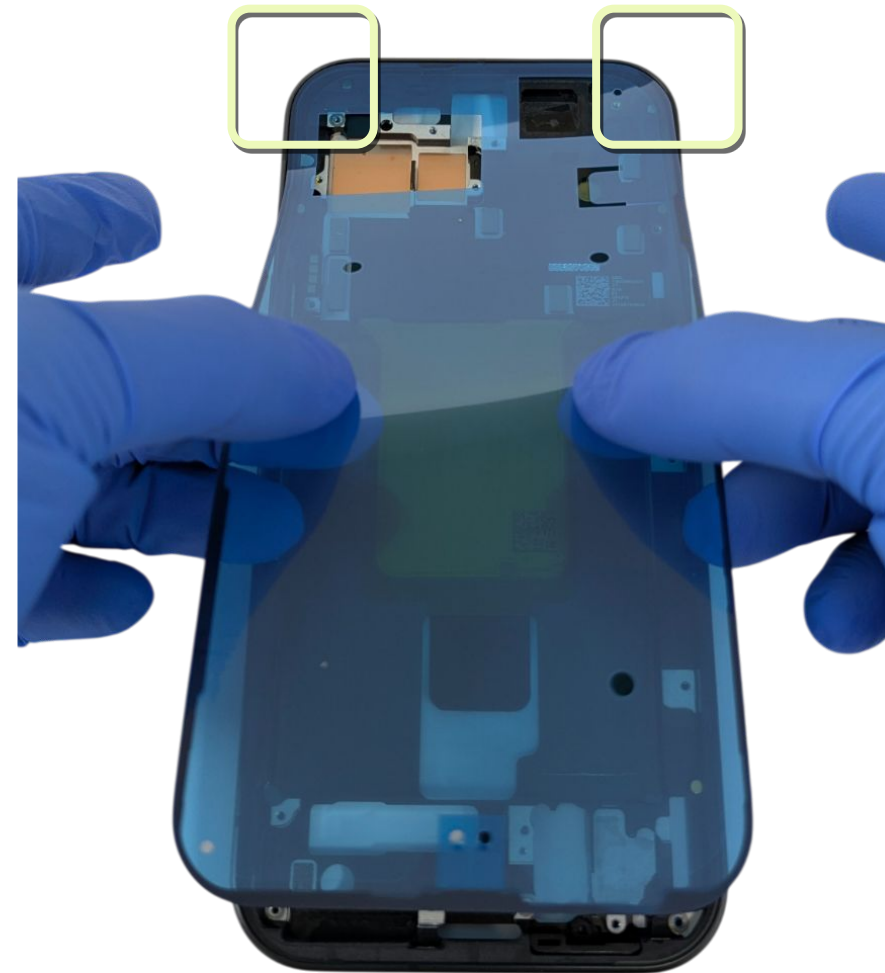


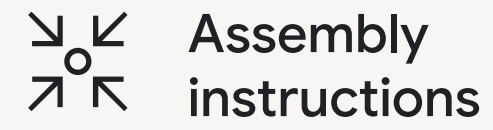
Apply the PSA on Enclosure

(for reused enclosure)

- Align the opening on the PSA with the rear camera sockets.
- First, stick the PSA at two upper corners of the enclosure, followed by the rest of the areas.
- Press firmly around the edges of the PSA with ESD spudger to strengthen the bonding.
- Pull the tab to remove the release liner with ESD tweezers as shown in figure.

Part: G806-14912-01 (adhesive enclosure to BC)





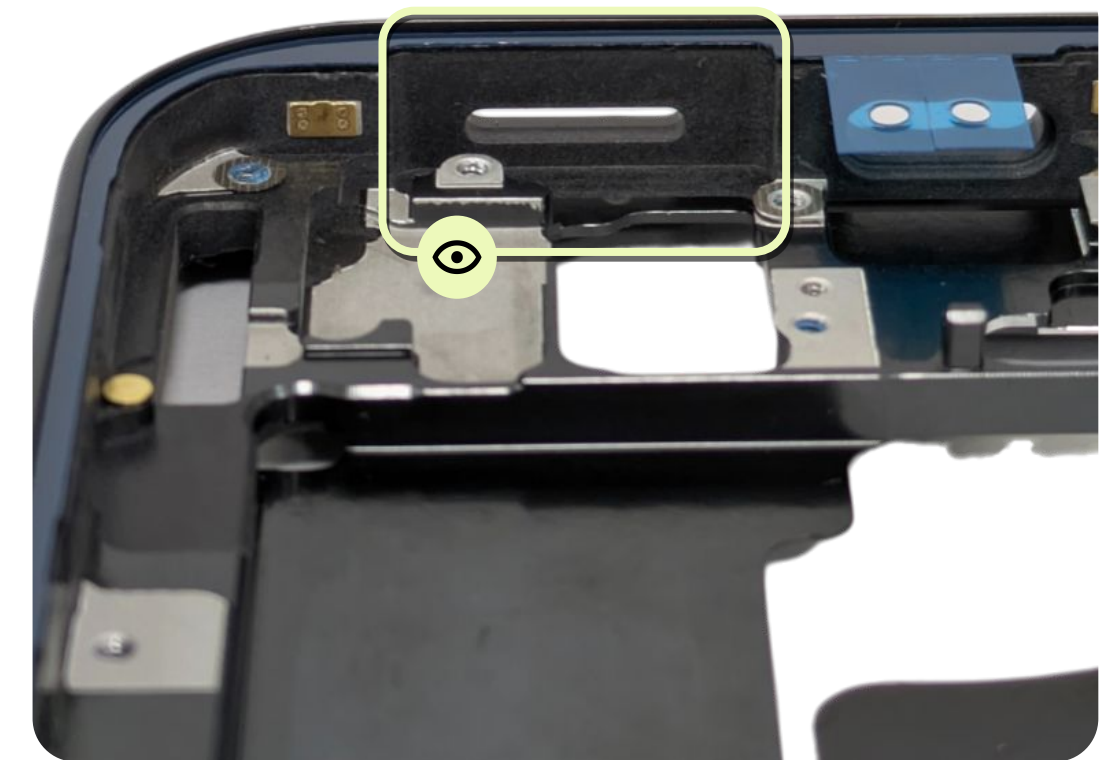
Assembly
instructions

Mic 1 holder

Rework on the mic 1 holder area

(for reused enclosure)

- Peel of the mic 1 holder adhesive from the enclosure with ESD tweezers.
- Wipe the surface with a cotton swab and IPA to remove the remaining residue.



Install the mic 1 holder

- Remove the release liner from the mic 1 holder first.
- Apply the AP111 primer around the designated area once as shown in Fig 1.
- Position the mic 1 holder with the cutouts in the enclosure as shown in Fig 2.
- Apply pressure on the mic 1 holder to activate the PSA as shown in Fig 3.

Part: G949-01592-00 (mic 1 holder)

Fig 1



Fig 2

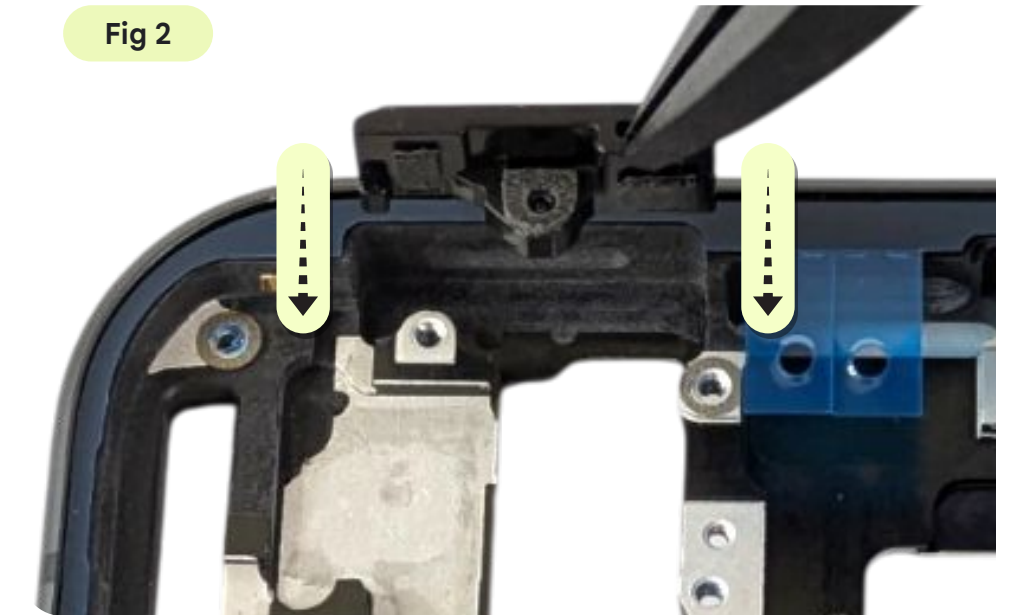
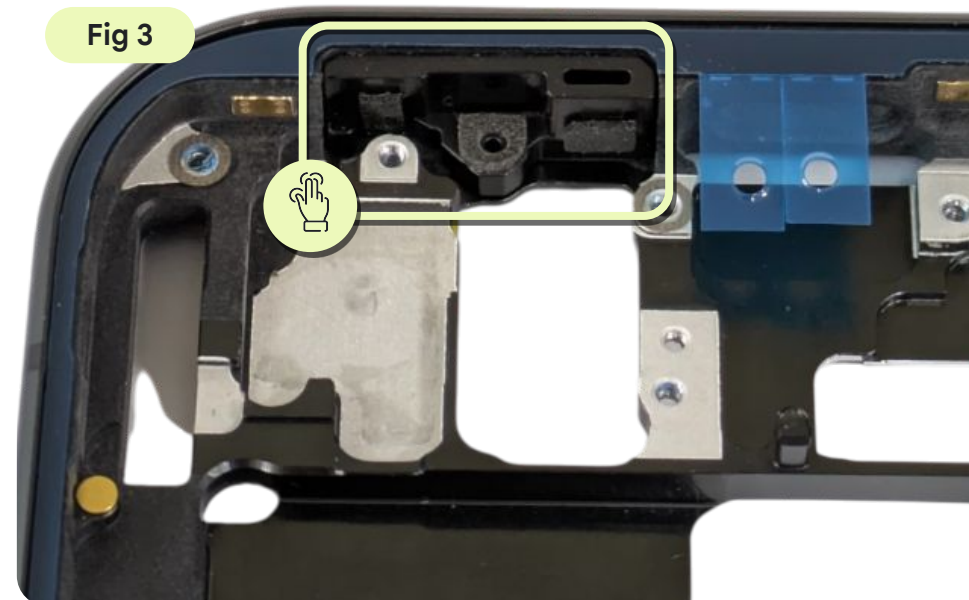
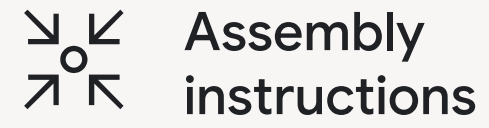


Fig 3



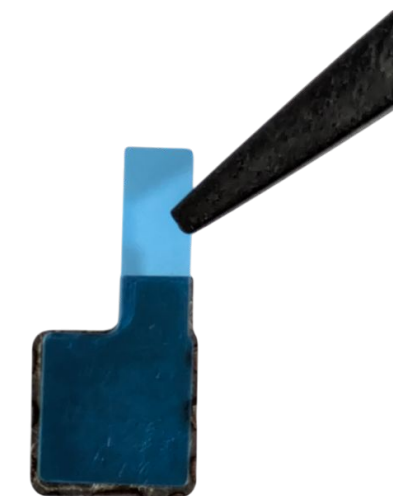
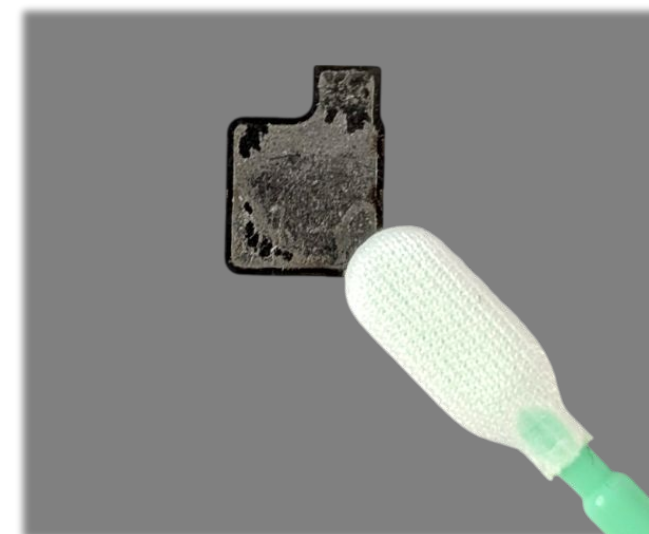
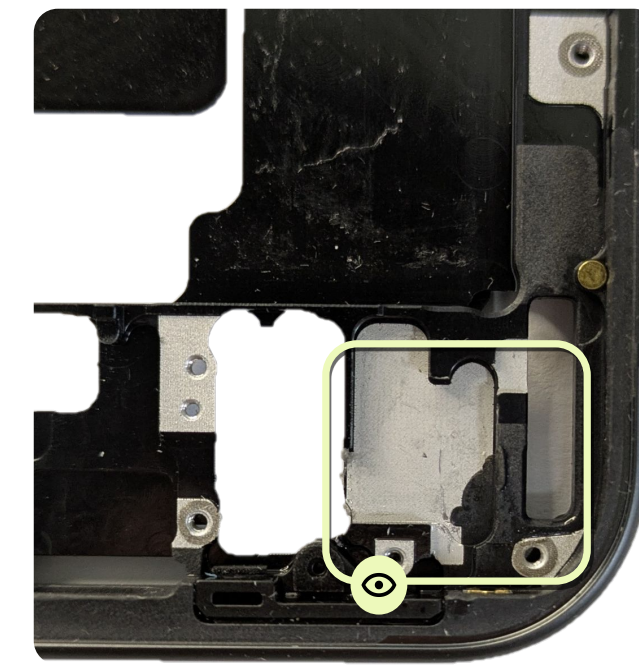


Vibrator

Rework on the vibrator area

(for reused enclosure & vibrator)

- Wipe the surface with a cotton swab and IPA to remove the remaining residue on the enclosure & vibrator.
- Apply adhesive onto the vibrator with ESD tweezer.

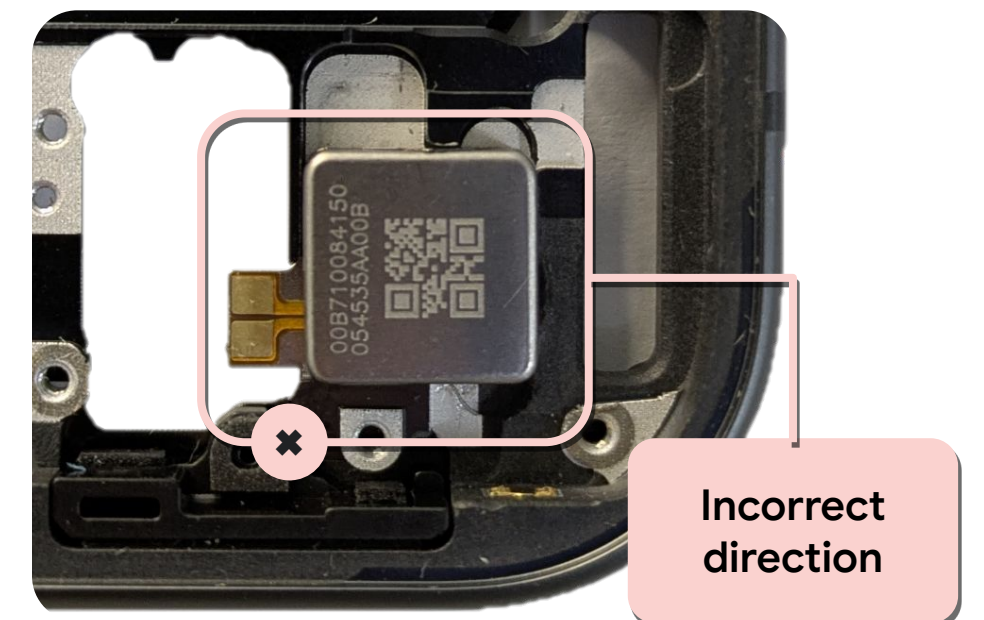
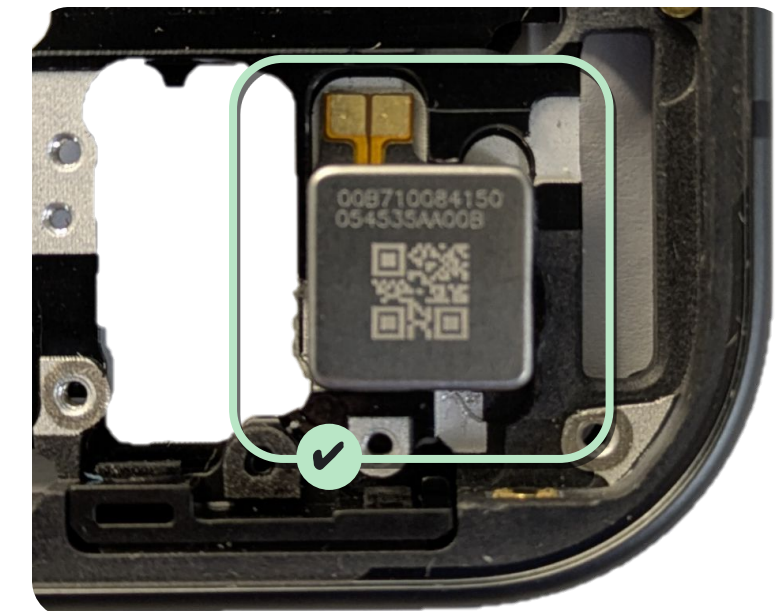


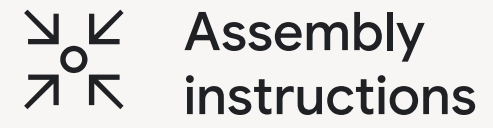
Install the vibrator

- Remove the release liner from the vibrator adhesive first.
- Position the vibrator with the cutouts in the enclosure. FPC should face the camera side.
- Apply pressure on the vibrator **for 5 secs** to complete bonding.

Part: G710-08415-00 (vibrator)

Part: G806-17953-00 (vibrator PSA)





Top speaker

Install the top speaker module

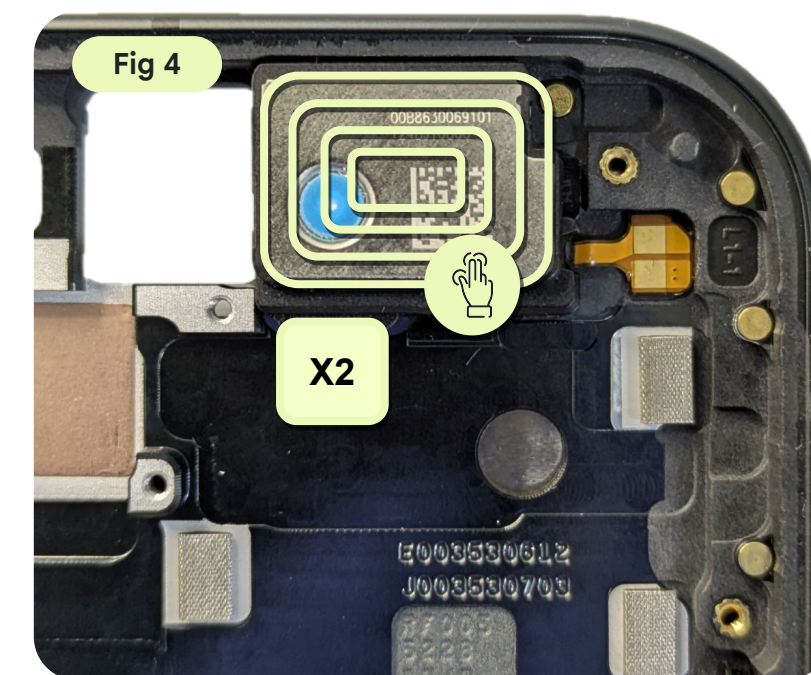
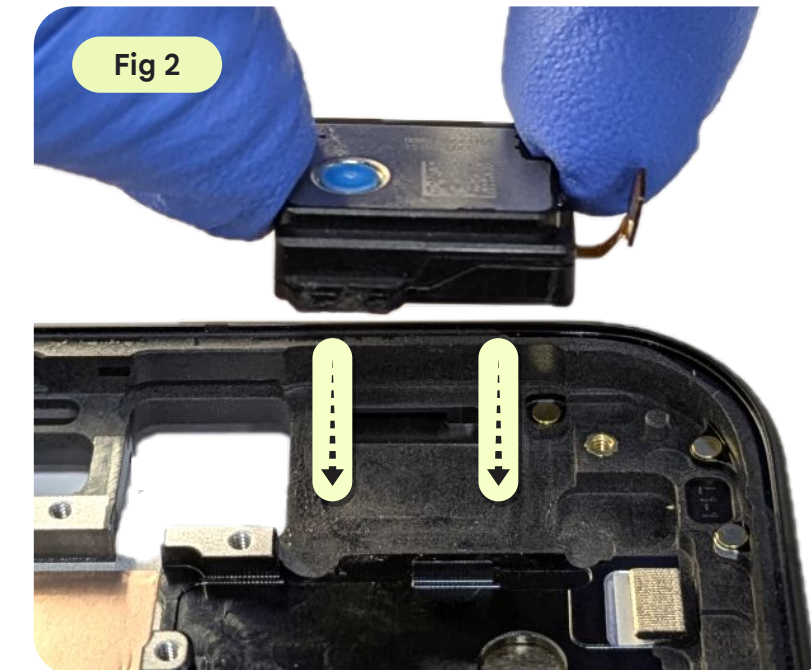
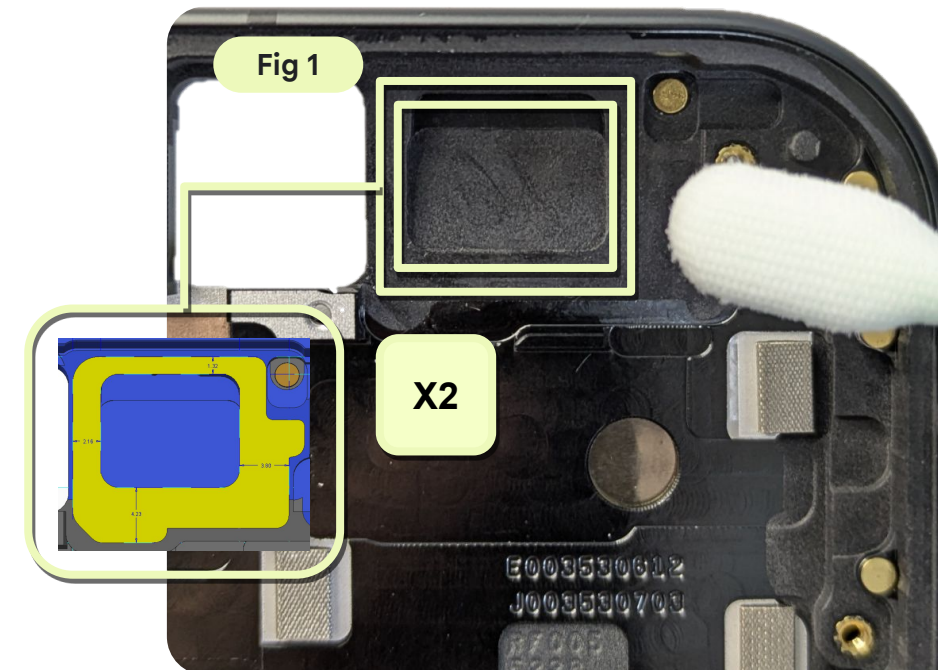
- Apply the AP111 primer twice around the top speaker area before installation as shown in Fig 1.
- Remove the release liners on the top speaker.
- Install top speaker vertically as shown in Fig 2.
- Remove the release liners on the FPC, use ESD tweezers to position FPC on the enclosure, and flatten the surface as shown in Fig 3.
- Hand press on the top speaker twice (**5 seconds per press**) to activate the PSA, as shown in Fig 4.


Part: G863-00691-01 (top speaker)



Use caution

1. The assembly should be completed within 25 minutes after you apply the primer.
2. Hand press on the top speaker twice to activate the PSA as required.



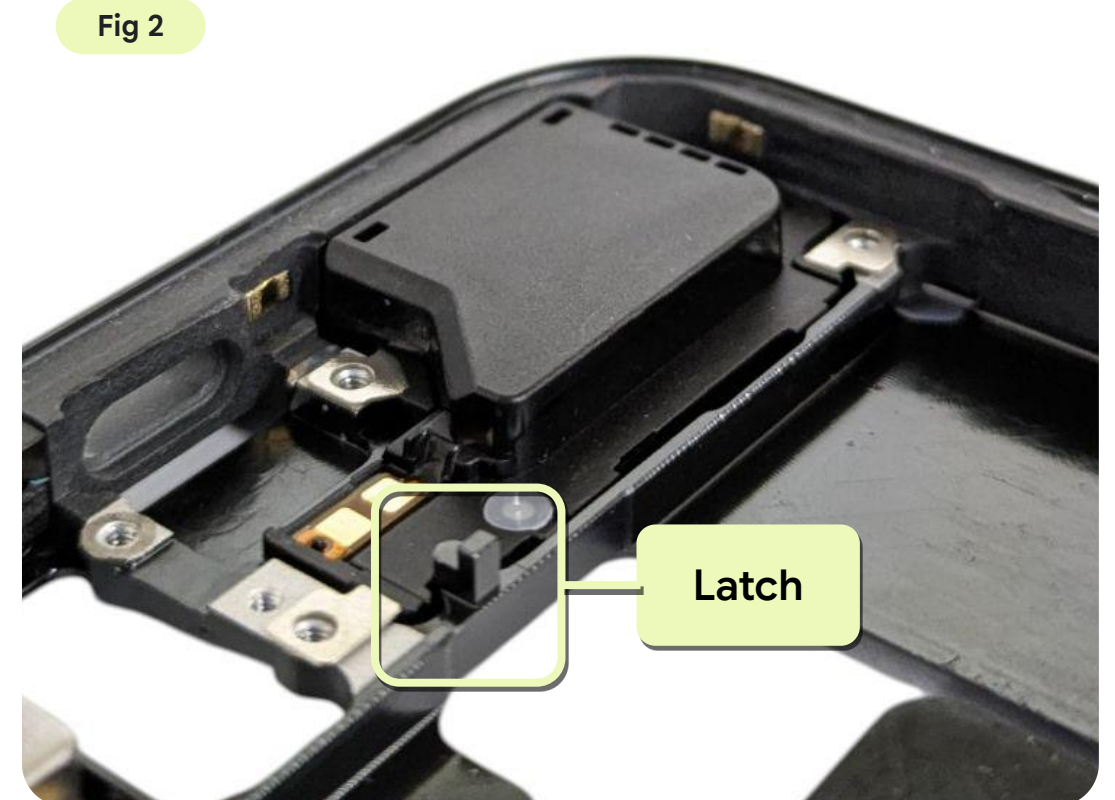
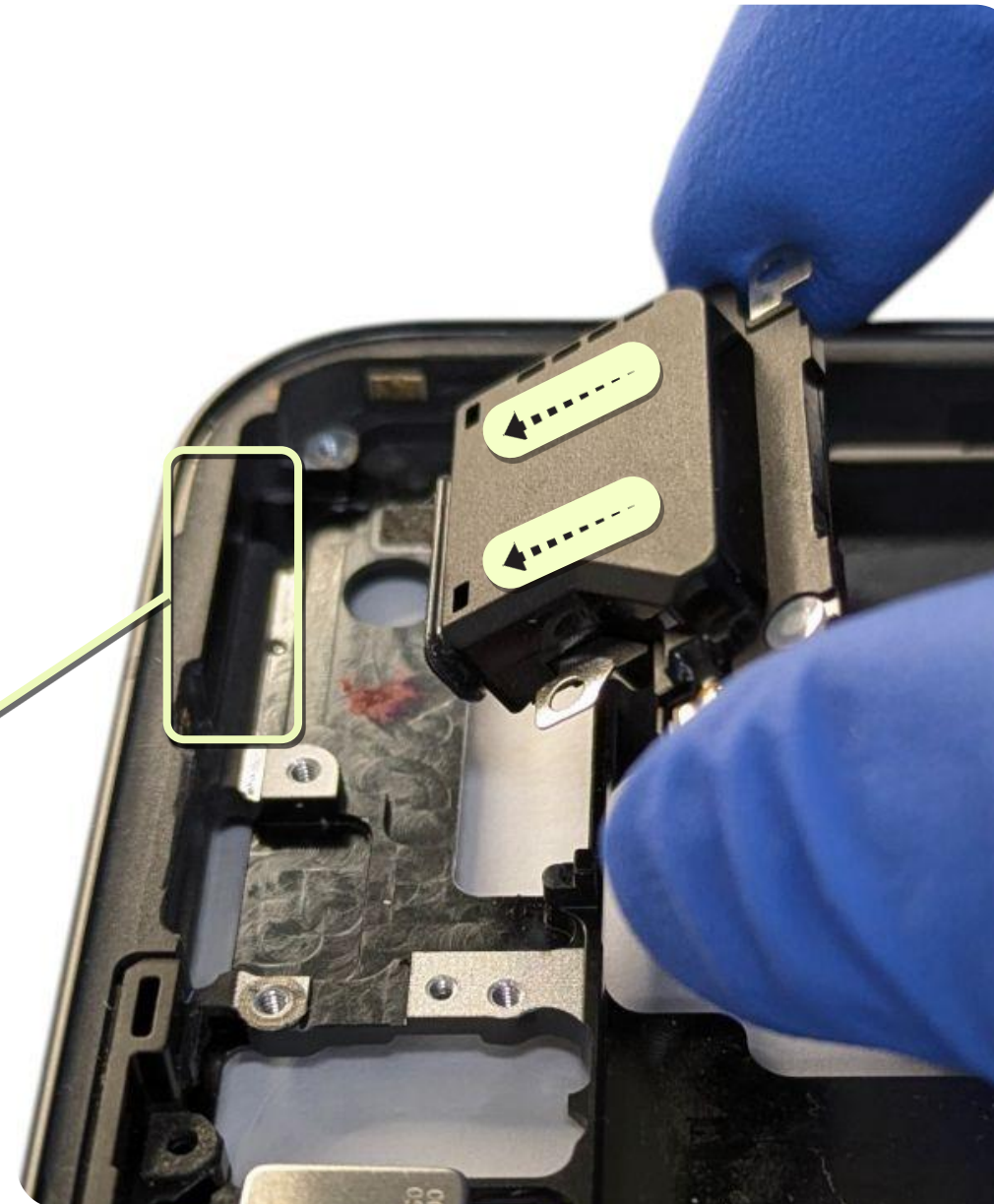
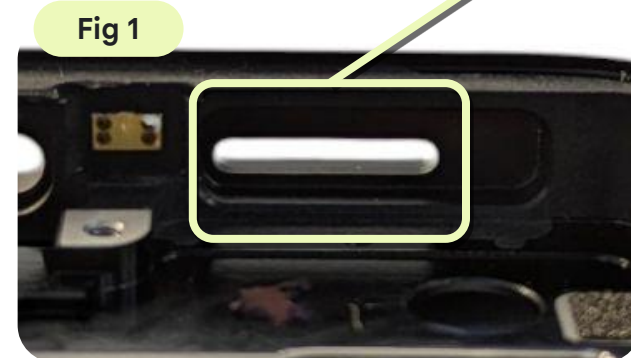
 Assembly
instructions

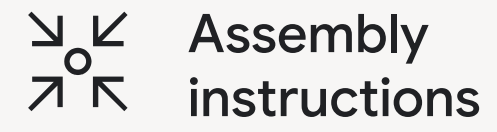
Bottom speaker

Install the bottom speaker

- Apply the Sankol lubricant to the opening on the enclosure and insert the bottom speaker as shown in Fig 1.
- Position it behind the latch with two screw holes aligned with the enclosure as shown in Fig 2.
- Press the bottom speaker gently to complete the installation.

Part: G863-00692-01 (bottom speaker)





Rear camera

Assemble the RCAMs to MLB

- Remove the masking tape from the logic board before you assemble the cameras for a new logic board.
- Assemble the cameras to the logic board.
- Attach the UW and wide camera BTB connectors to the logic board. Make sure that they're engaged properly.

Part: G949-01590-00 (wide rear camera)

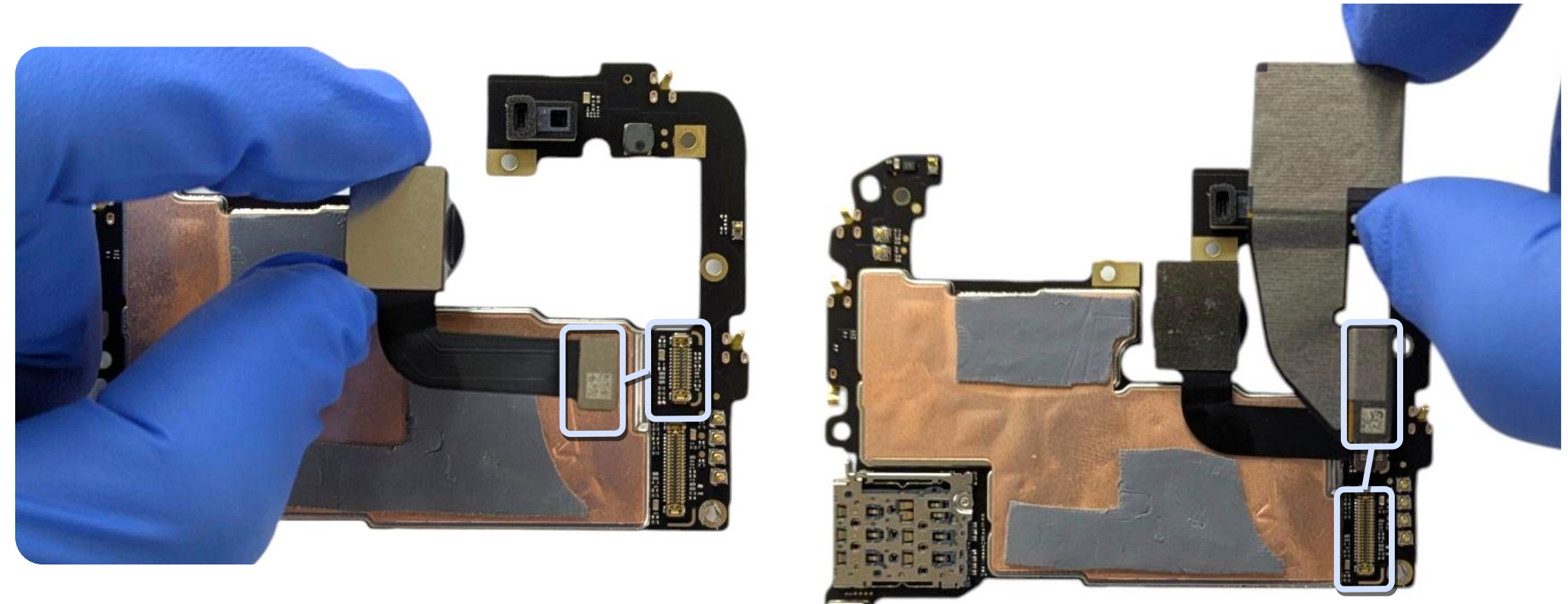
Part: G949-01591-00 (ultra wide rear camera)



Use caution

Don't touch the camera lenses.

Make sure that the connections are fully secured.



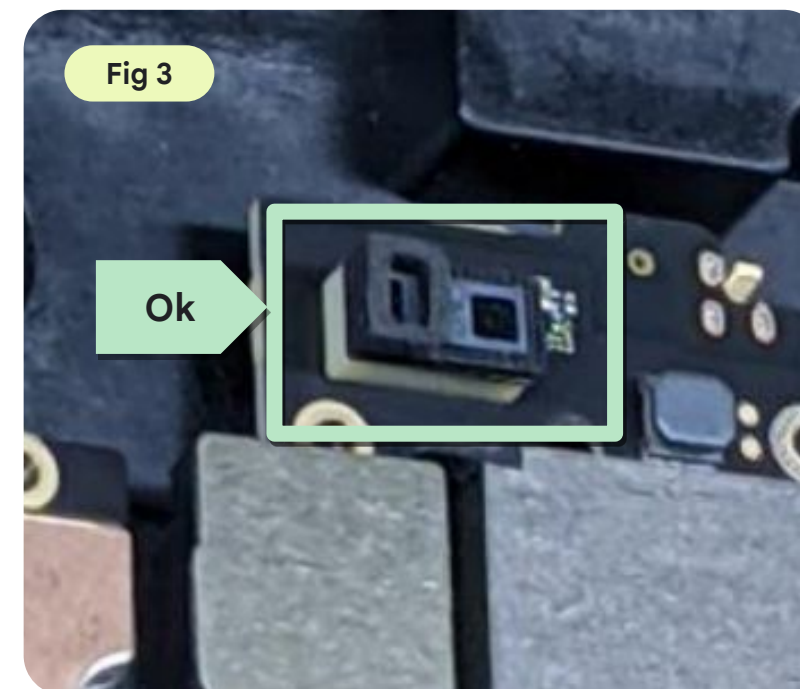
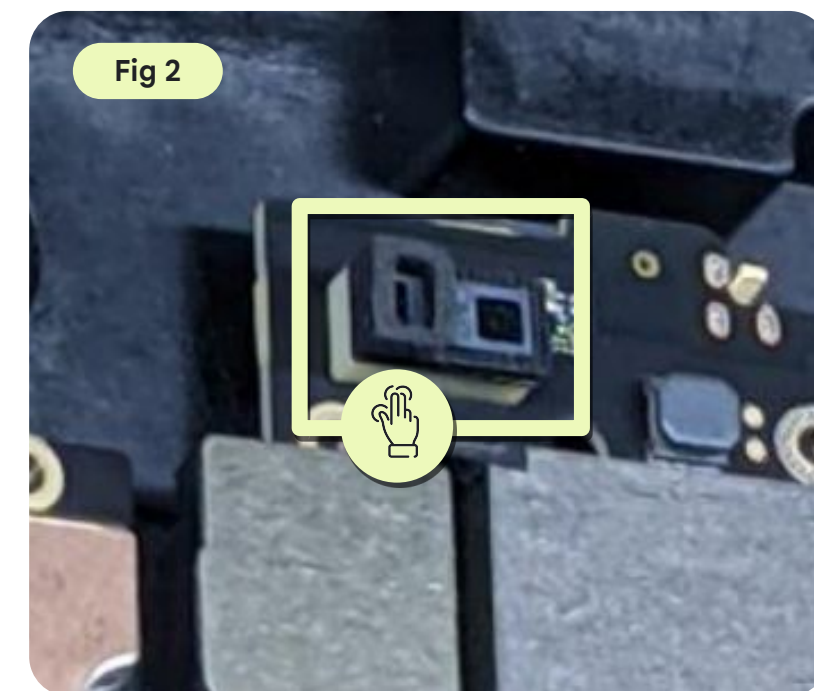
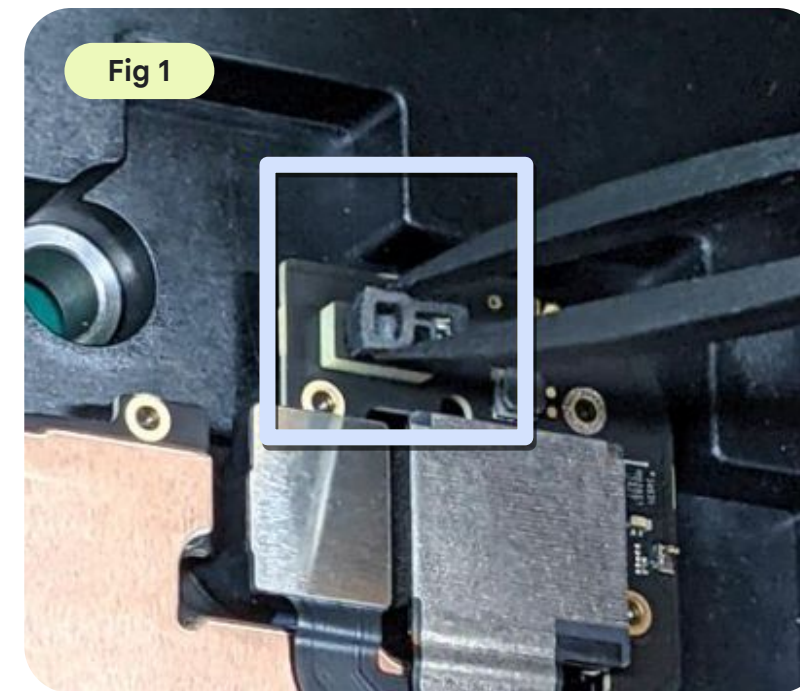
Install the P-sensor rubber


- Hold the rubber with ESD tweezers and drop it on the P-sensor as shown in Fig 1.
- Apply pressure to finish the installation as shown in Fig 2.
- Make sure that the the P-sensor rubber faces the correct direction as shown in Fig 3.

Part: G806-13064-01 (P-sensor rubber)

Note

Replace the P-sensor rubber if it's damaged.



 Assembly
instructions

Logic board

Rework on the logic board

(for a reused logic board)

Replace the conductive fabric washers if they're worn or damaged:

- Use an ESD spudger to scrub off the damaged conductive fabric washers.
- Wipe the surface with a cotton swab and IPA to remove the remaining residues.
- Paste the new six conductive fabric washers on the logic board and remove the release liner(s).

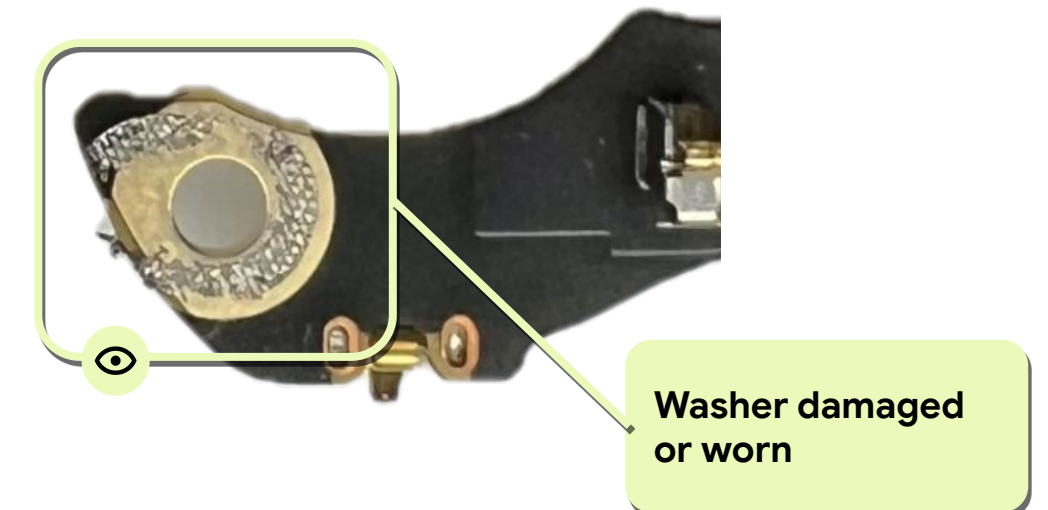
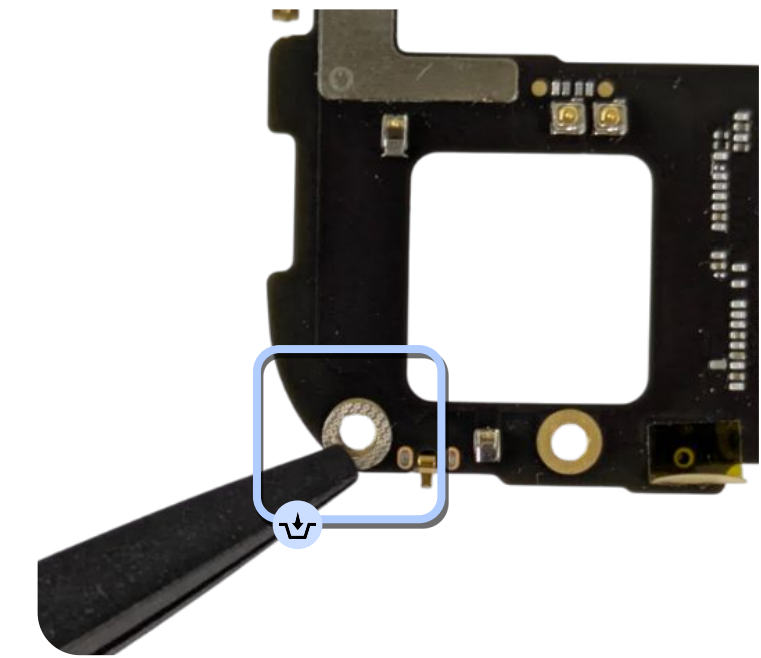
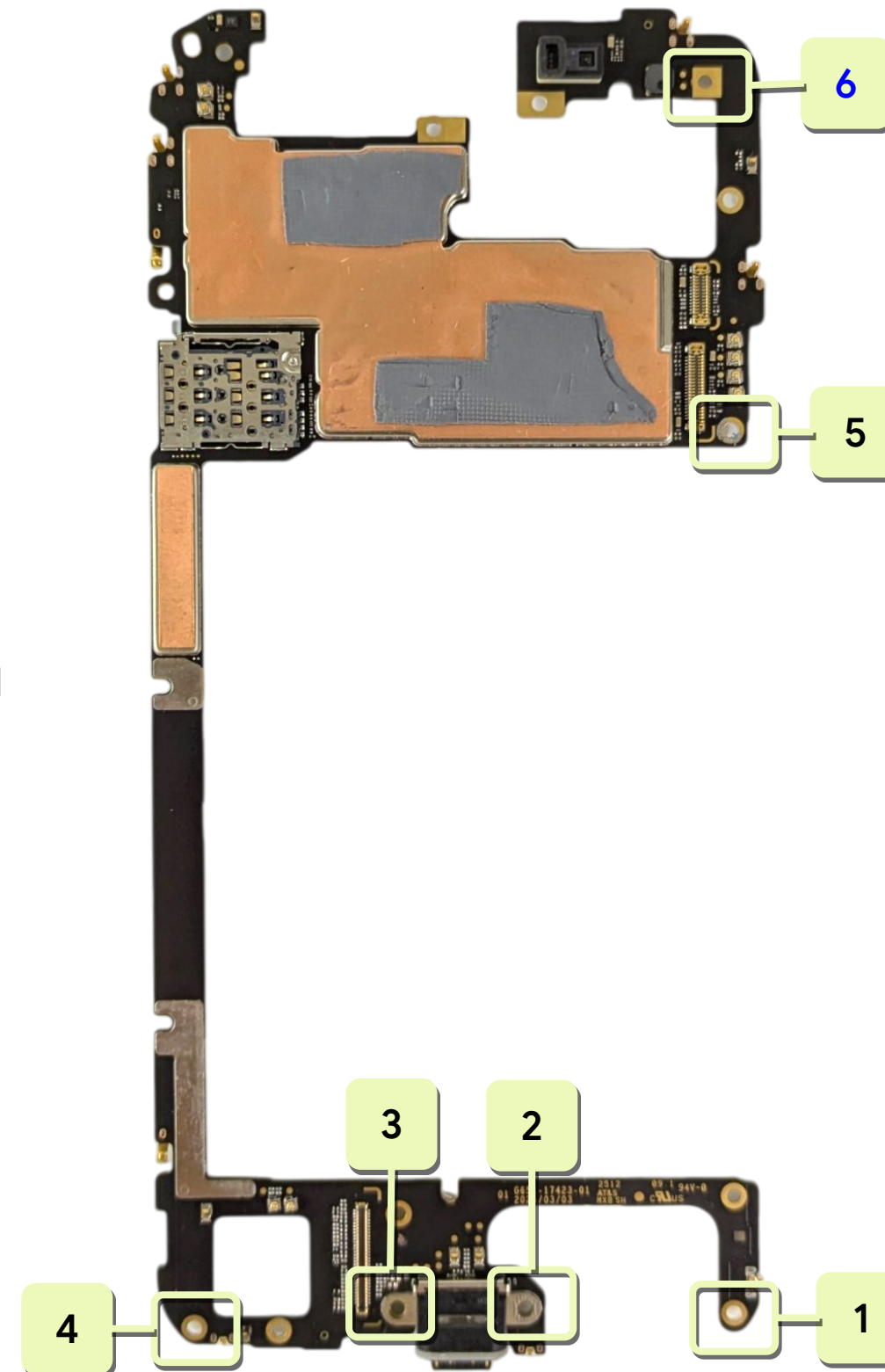
Part: G806-14924-00 (conductive fabric washer)

Use caution



If the conductive fabric washer is worn or damaged, clean up the area and apply a new one.

If the washer is in good condition, no action is needed.



Rework on the thermal pad

(for a reused logic board)

If the thermal pad is damaged:

- Use cotton swabs to scrub off the thermal pad from the logic board.
- Wipe the surface with a cotton swab and IPA to remove the remaining residues.
- Position the thermal pad with the cutouts in the enclosure.

Part: G806-15069-01 (thermal pad, E-noise MLB)

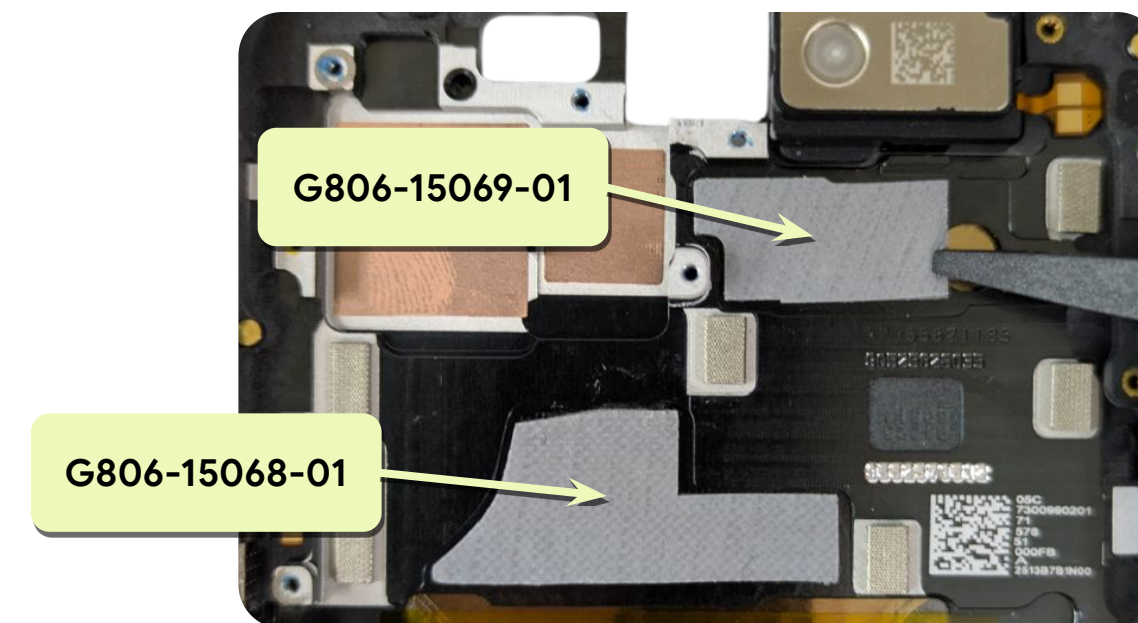
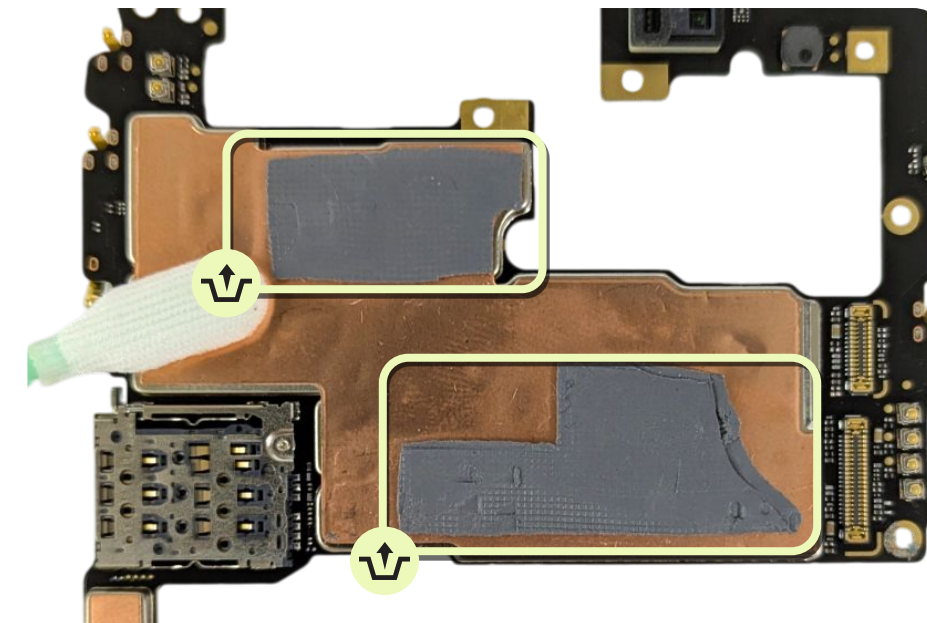
Part: G806-15068-01 (thermal pad, SoC MLB)



Use caution

If the thermal pad is damaged, clean up the area and apply a new one.

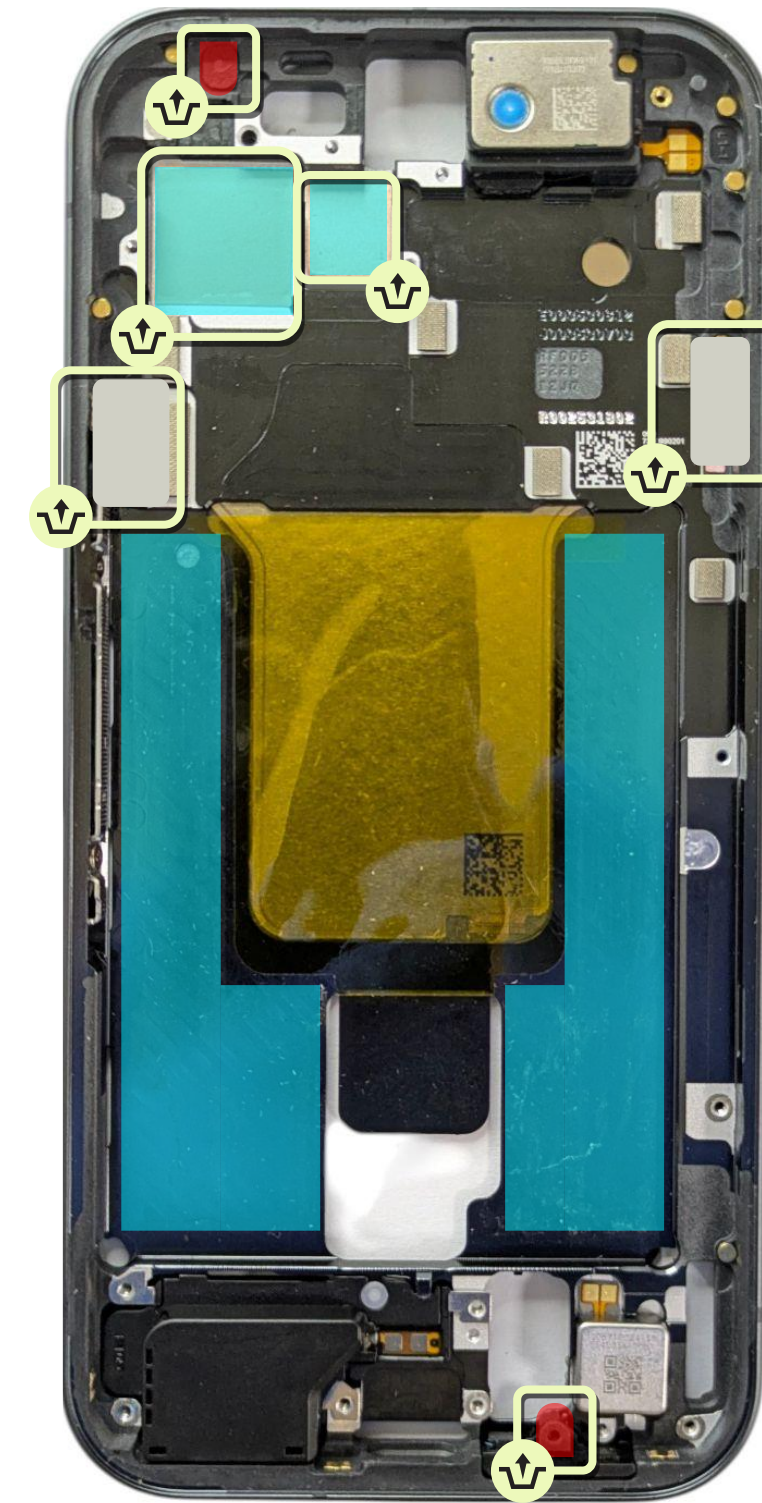
If it's in good condition, no action is needed.



Remove the release liners and masking tape

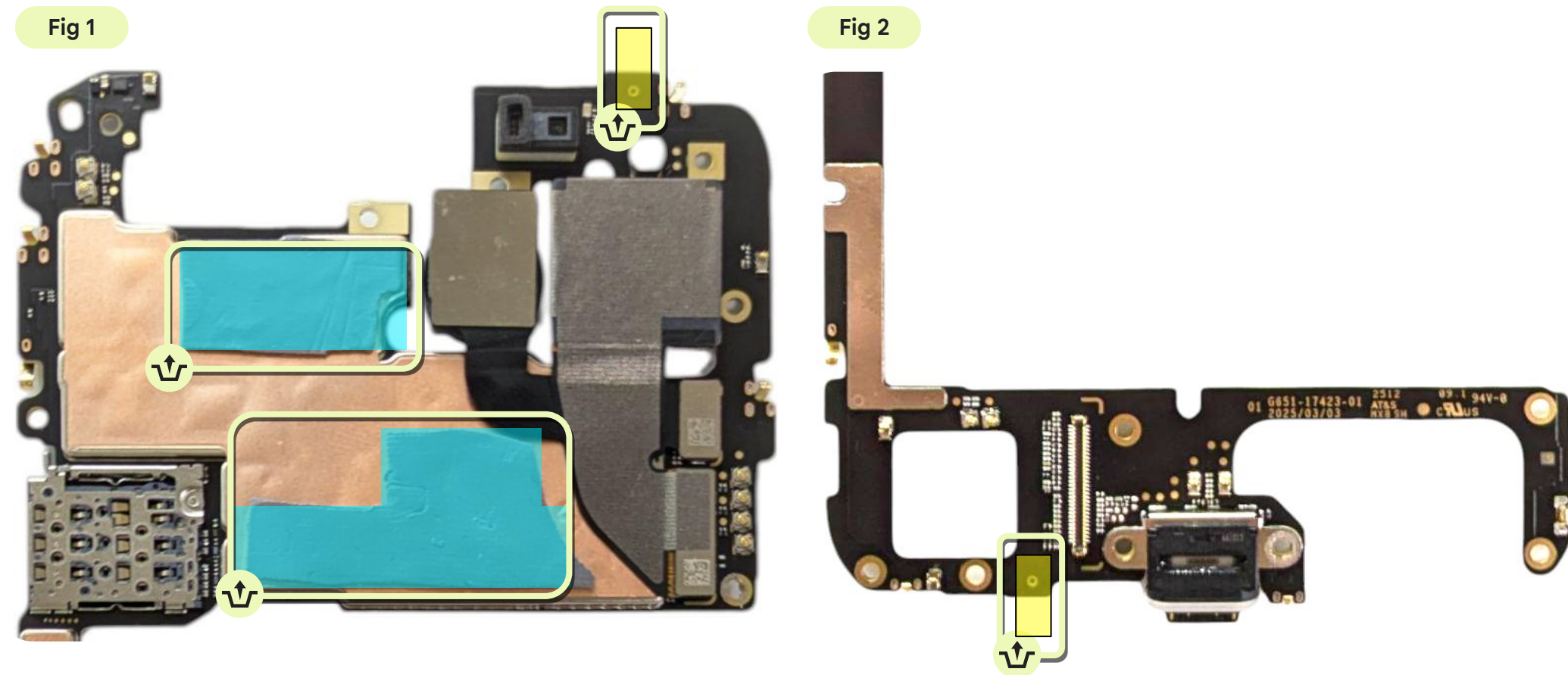
(for a new enclosure)

Remove four release liners and two masking tapes that are on the enclosure.



Remove the release liners and Kaptons

Use ESD tweezers to remove the release liners, the yellow Kaptons, and the masking tape from the logic board as shown in Fig 1 and Fig 2.



Assemble the logic board

- Insert the USB module on the logic board into the USB slot on the enclosure at an angle of 15 degrees as shown in Fig 1.
- Lower the logic board and position it into the enclosure carefully. It should fit behind the latch as shown in Fig 2.
- Apply pressure on the logic board and you should hear a click sound as shown in Fig 2.

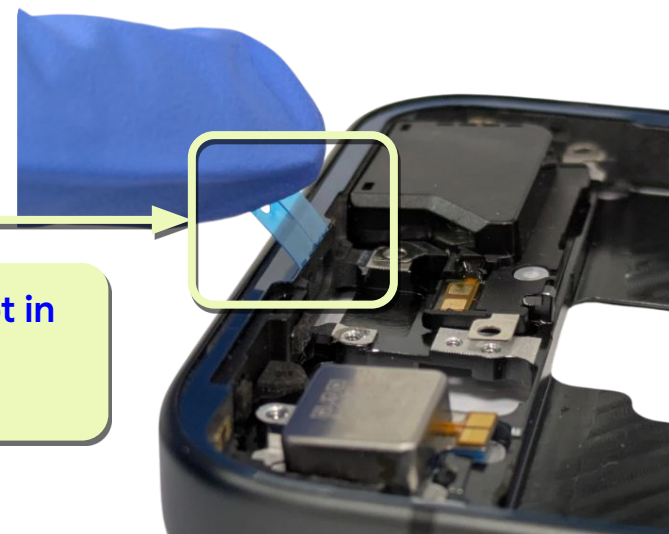
Fig 1



Fig 2

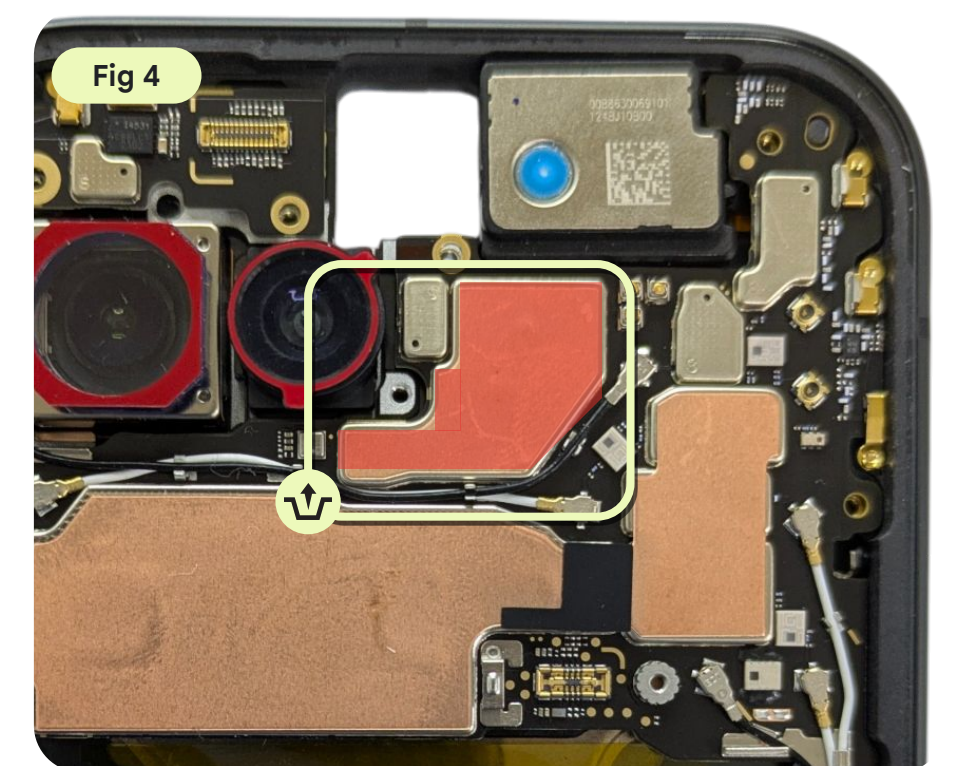
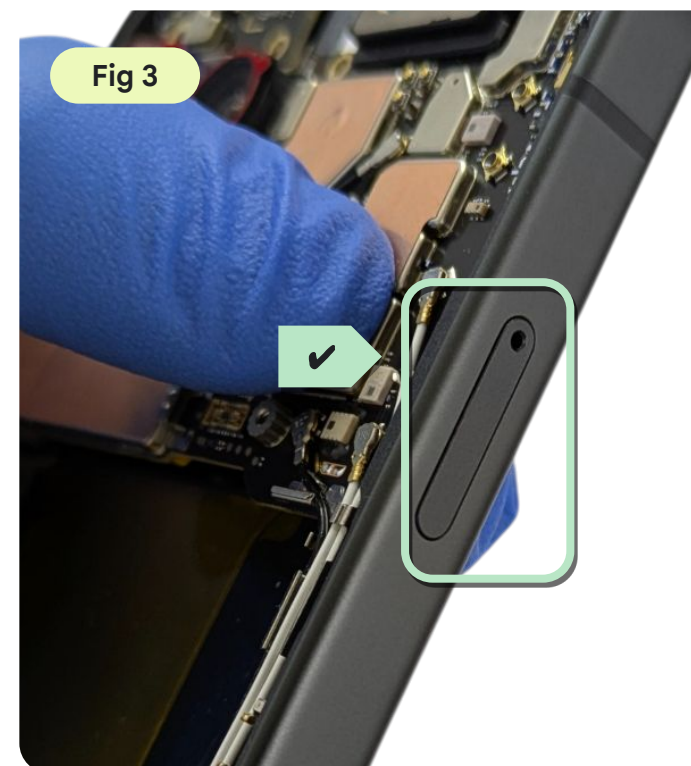
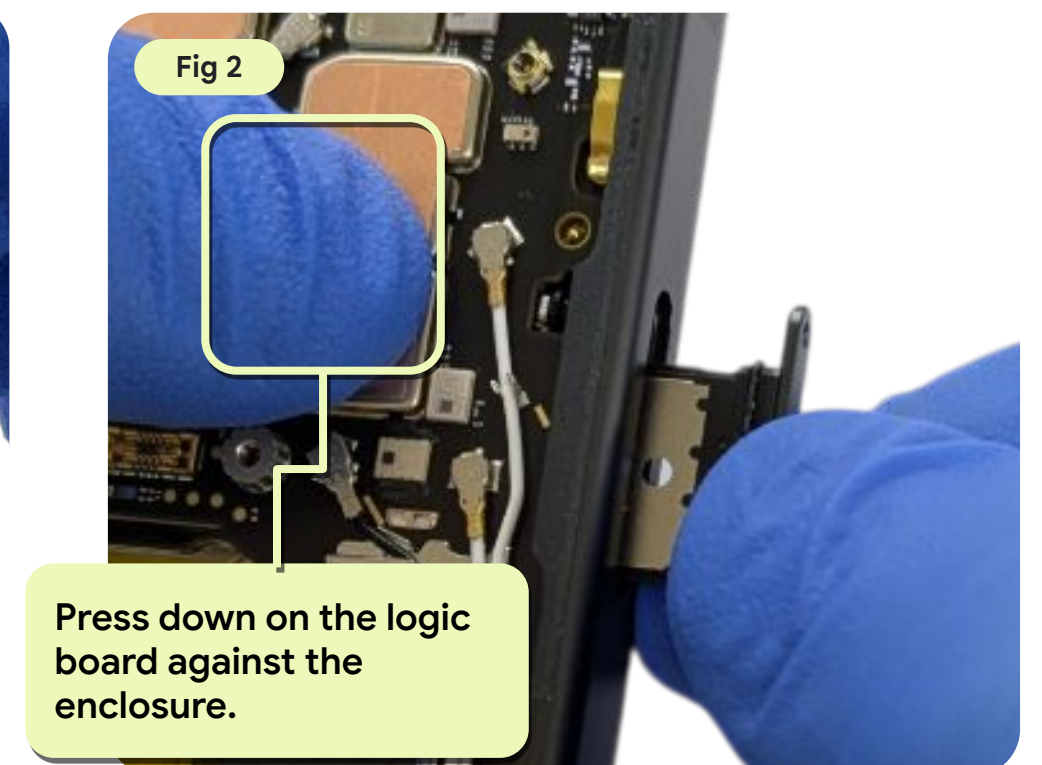
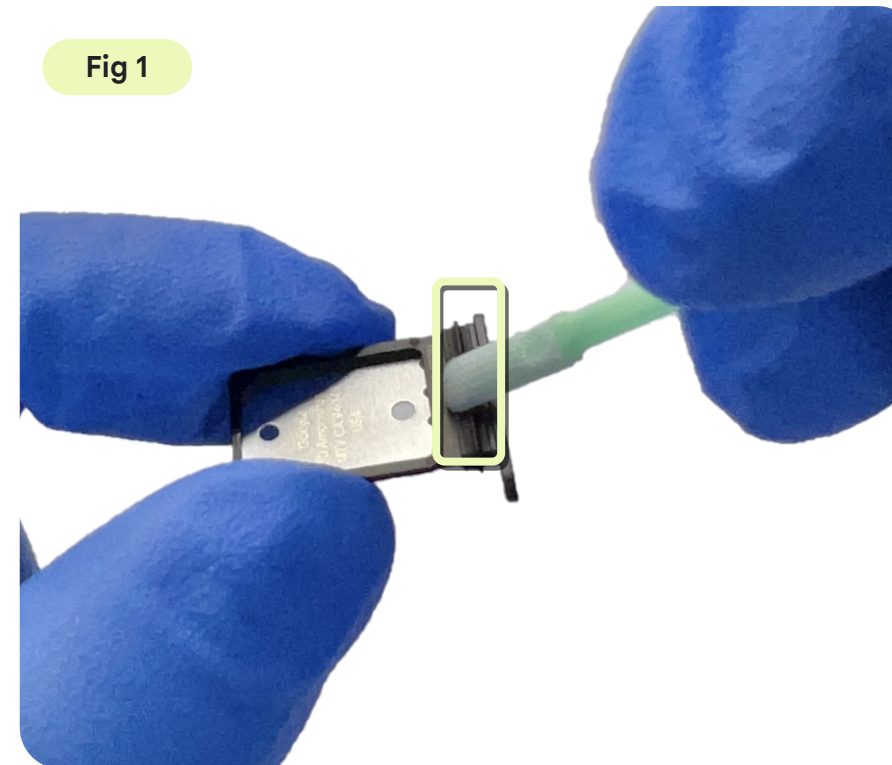


**Make sure the PSA liners are not in the way.
Do NOT tear these off yet.**



Install the SIM tray

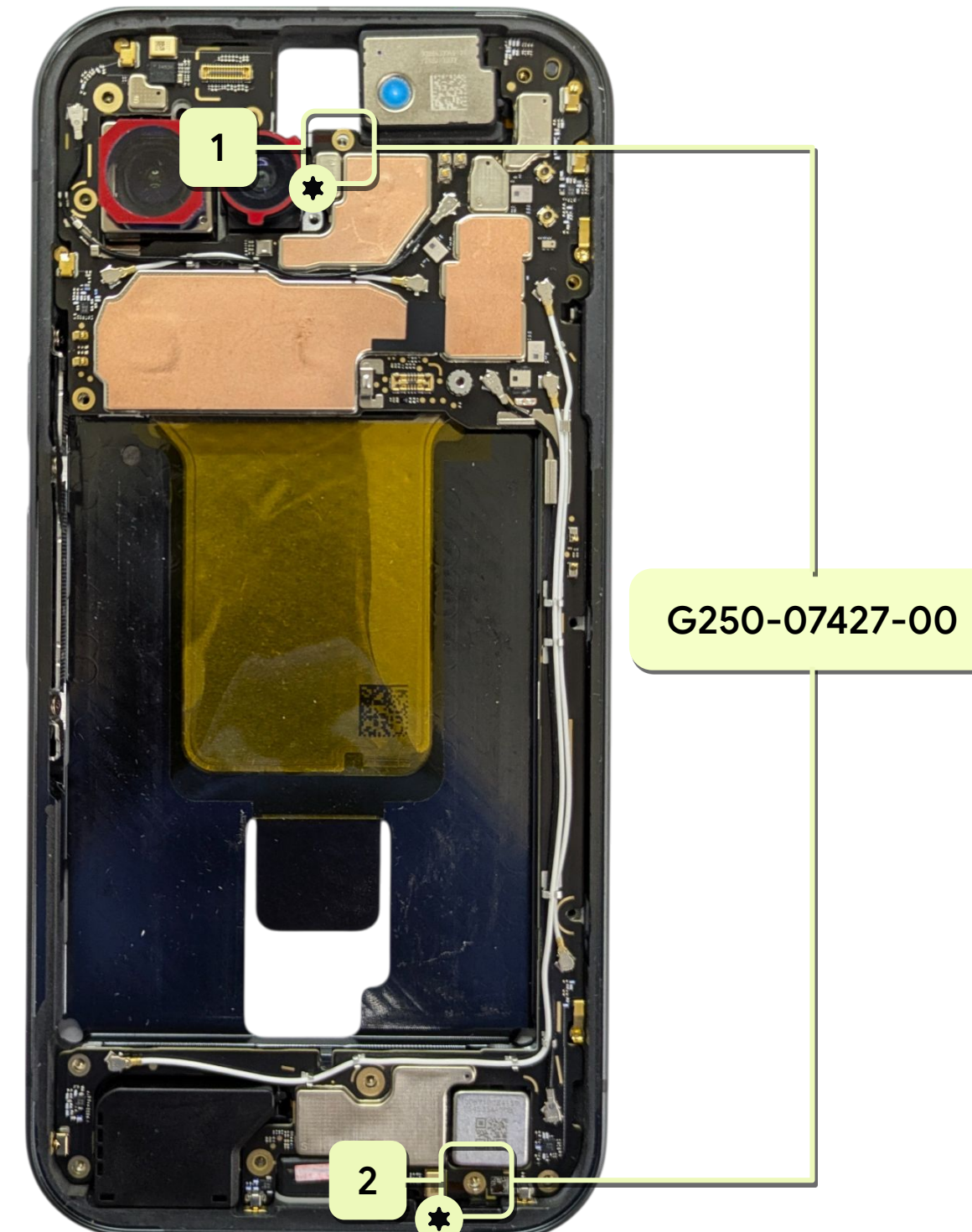
- Apply the lubricant on the SIM tray O-ring before installation as shown in Fig 1.
- Insert the SIM tray into the slot as shown in Fig 2.
- The SIM ejection hole should face the right hand side as shown in Fig 3.
- Use ESD tweezers to remove the release liner as shown in Fig 4.




Fasten the logic board screws

Fasten two screws on the logic board with an adjustable torque screwdriver.

Part: G250-07427-00*2 (screw)



 Assembly
instructions

Display

Rework on the display

(for a reused display)

- Scrub off the adhesives around the outer edge of the display with an ESD spudger or electric glue remover tool.
- Wipe the surface with a cotton swab and IPA to remove the remaining residues.
- Apply the AP111 primer around the edges twice.



Use caution

1. Don't apply excessive primer, as it could overflow.
2. Apply the primer in one direction. Don't rub back and forth.
3. The assembly should be completed within 25 minutes after you apply the primer.



Apply the AP111 primer on the enclosure

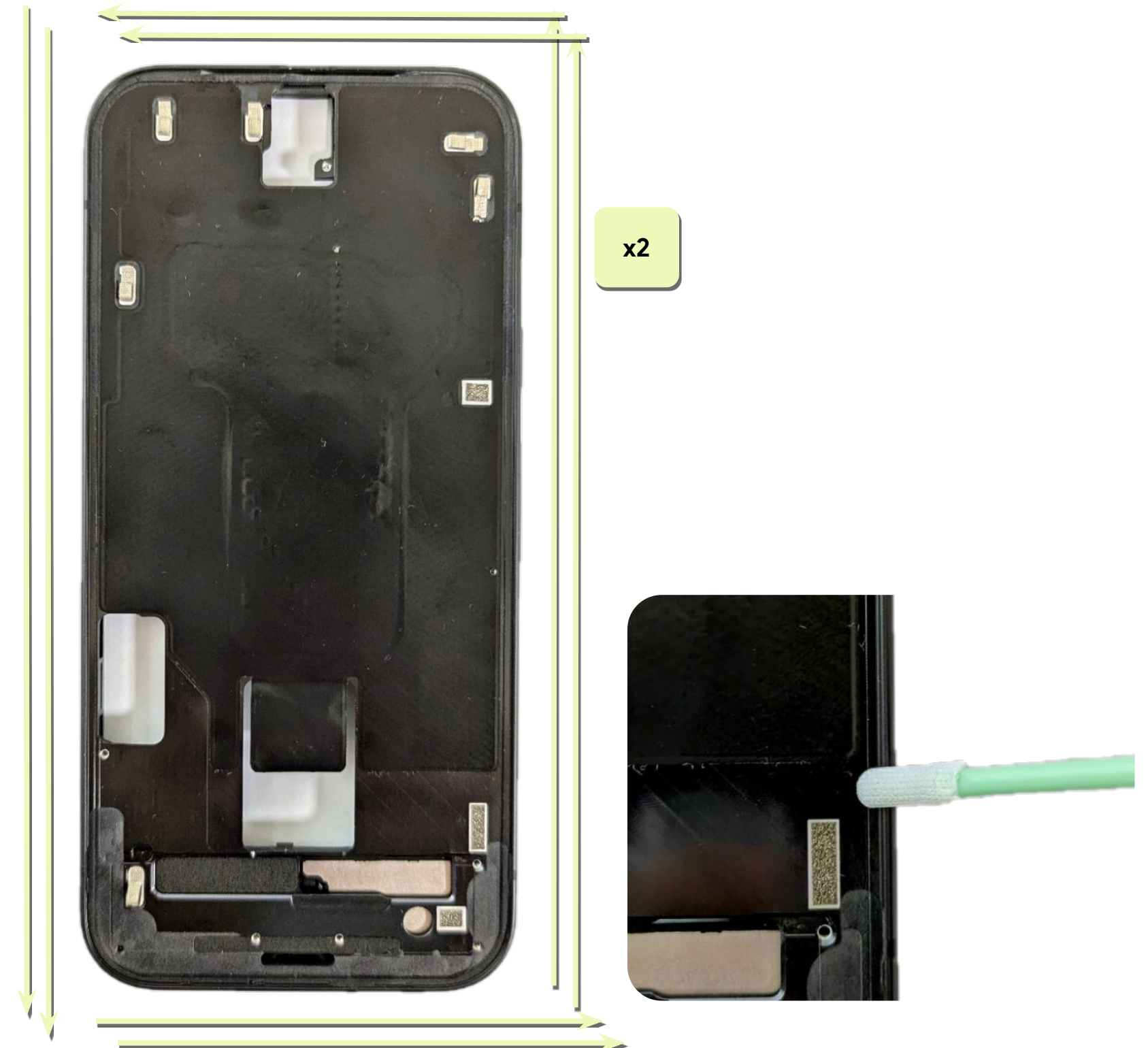
(for a reused enclosure)

Apply the AP111 primer around the entire enclosure twice.



Use caution

1. Don't apply excessive primer, as it could overflow.
2. Apply the primer in one direction. Don't rub back and forth.
3. The assembly should be completed within 25 minutes after you apply the primer.

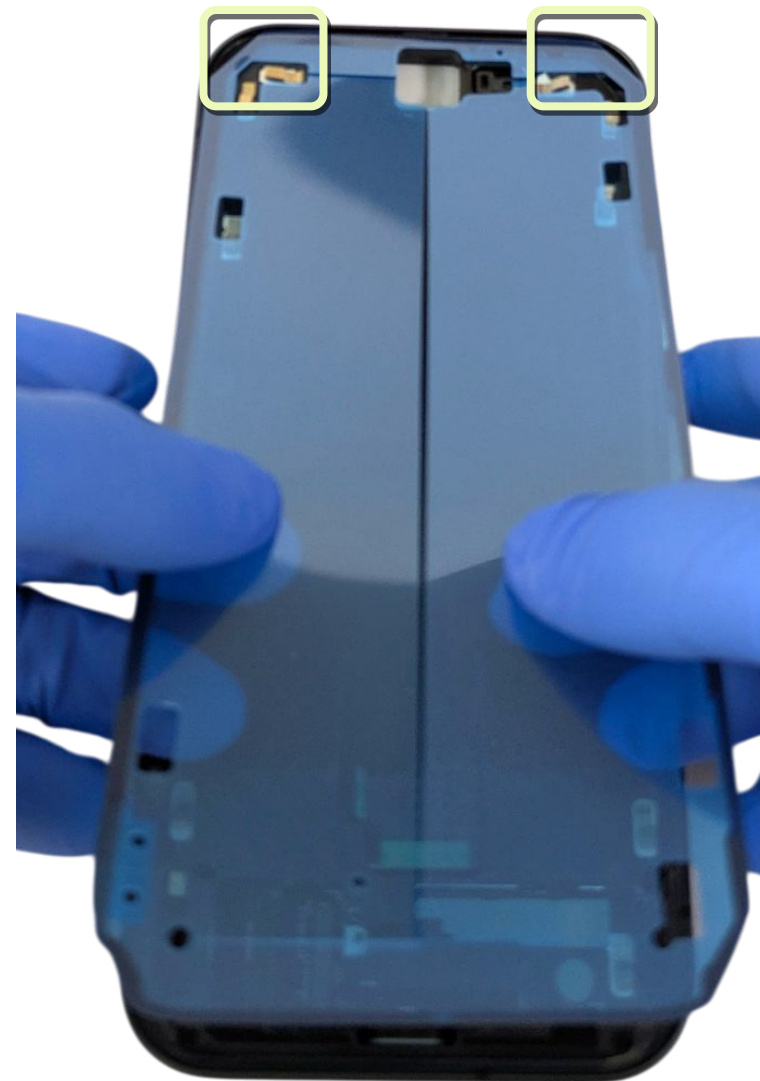


Paste the display PSA onto the enclosure

(for a reused enclosure)

- Align the display PSA with the enclosure with the upper corners.
- After the alignment is confirmed, slowly lower the PSA onto the enclosure.
- Apply pressure firmly and remove liner to complete the steps.

Part: G806-17027-01 (adhesive enclosure to CG)



Enclosure to the adhesive

- Apply the AP111 primer around the entire enclosure twice.
- Remove all of the release liners and protective film slowly from the enclosure with ESD tweezers.

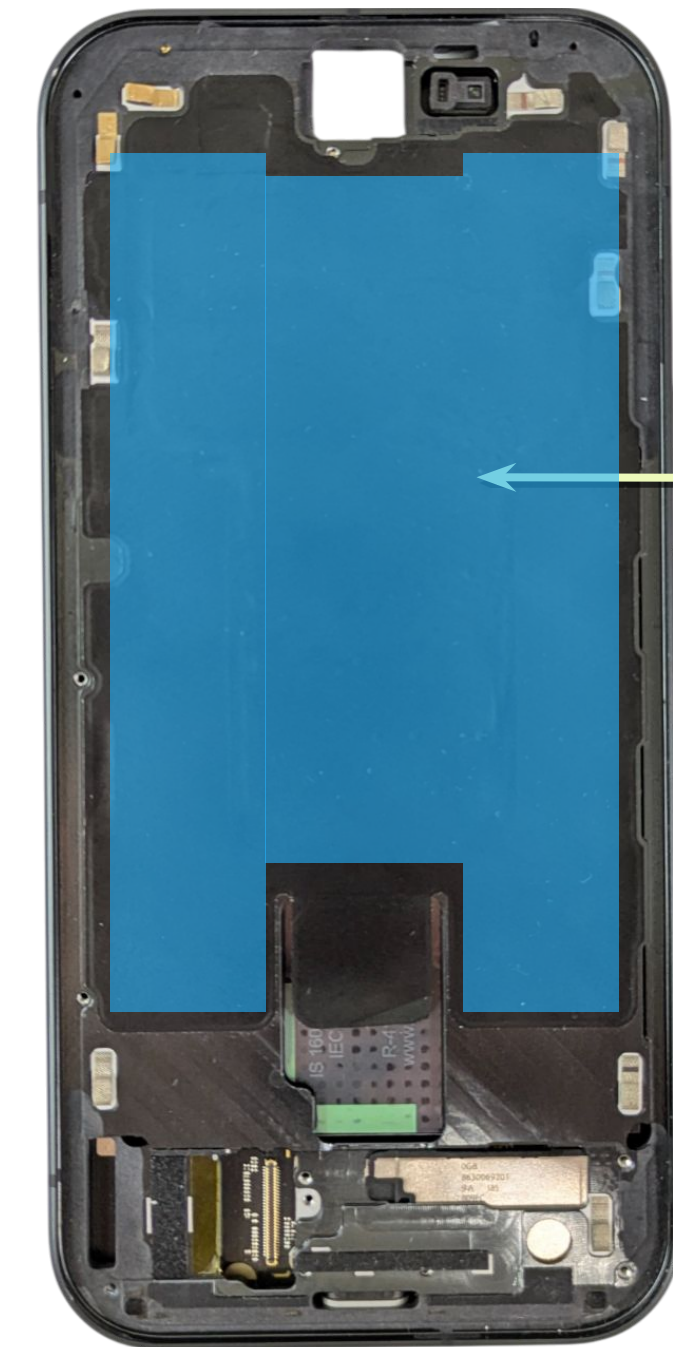


Use caution

1. Primer shouldn't be missed, overflowed, or excessive.
2. Apply the primer in one direction. *Don't* rub back and forth.
3. The assembly should be completed within 25 minutes after you apply the primer.



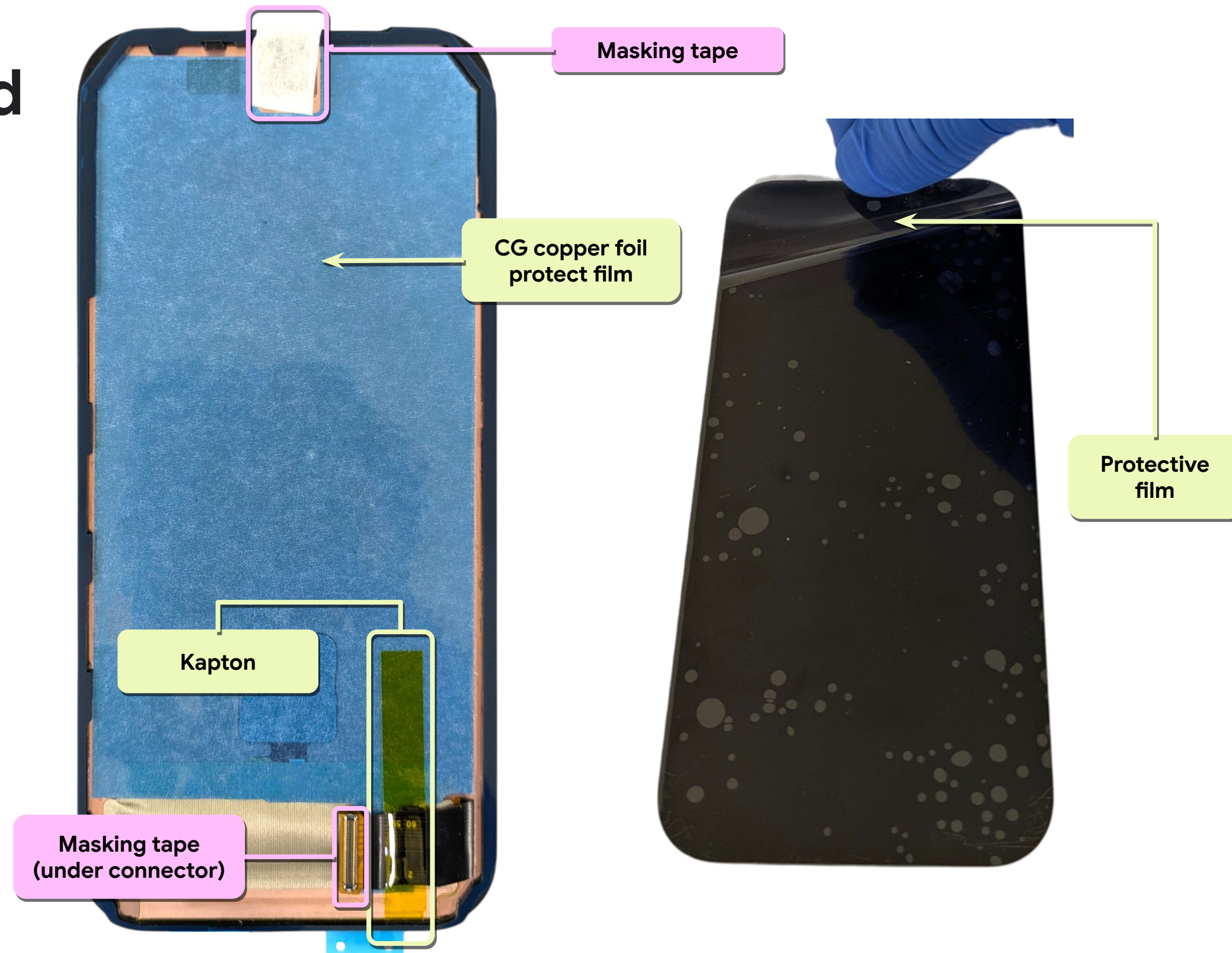
x2



Protective film

Remove the protective film and masking tape

Remove all of the masking tape and protective film slowly from the display with ESD tweezers.



Connect the display FPC

Buckle the display FPC to the logic board and apply pressure in the order shown in Fig 1.

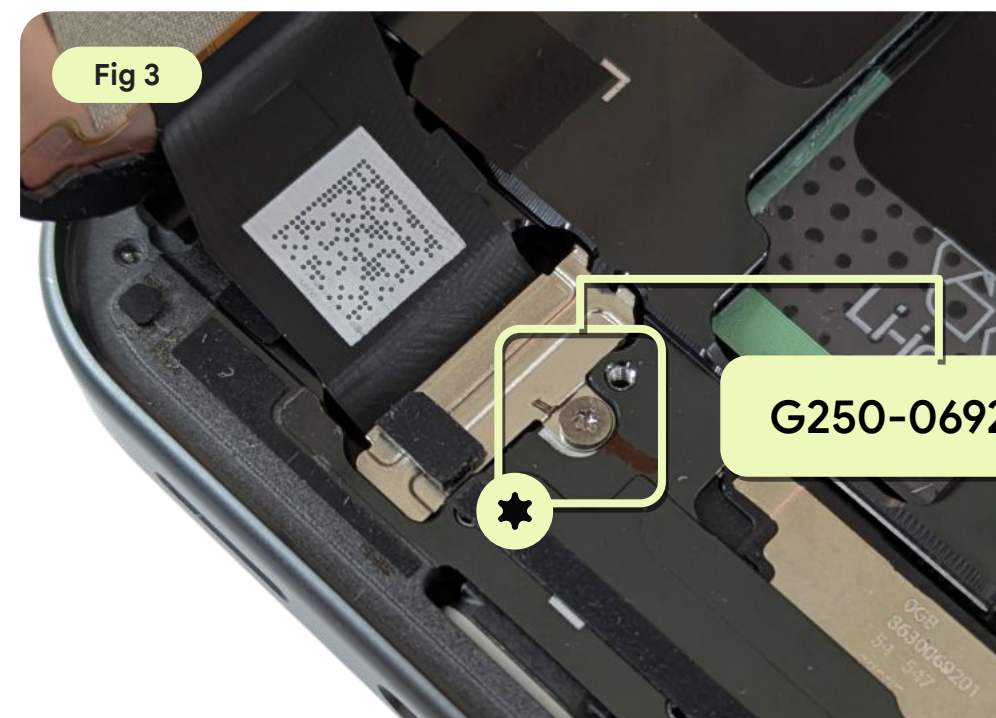
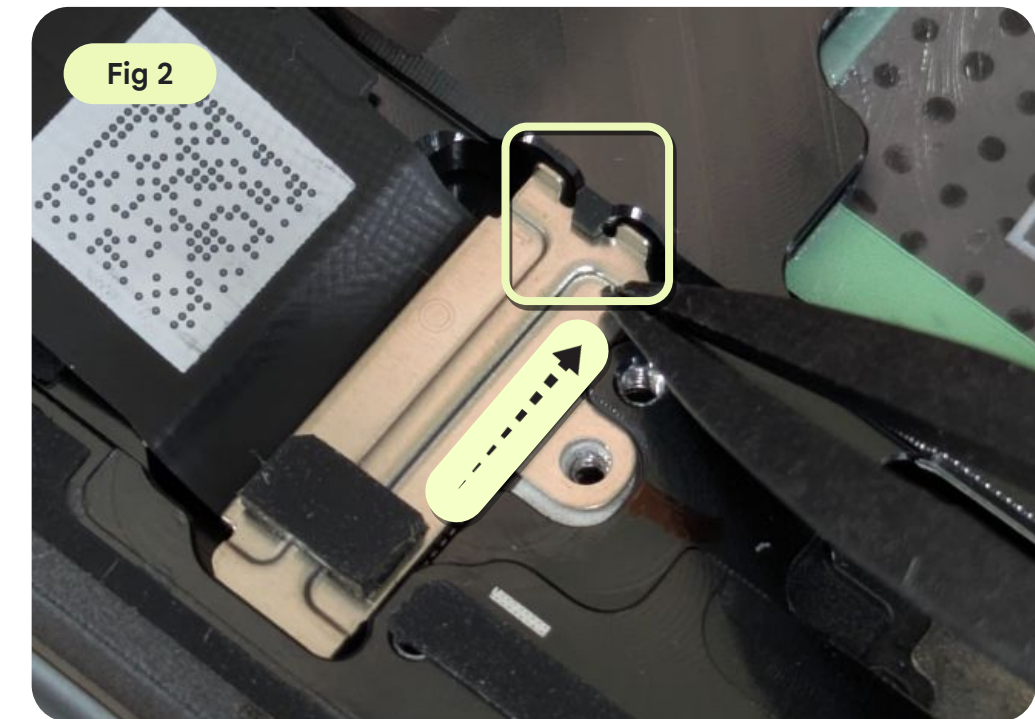


Install the display stamping

- Insert the flat end of the display stamping into the socket such that it faces the USB as shown in Fig 1.
- Push the stamping plate into the latch position to ensure that it's fixed as shown in Fig 2.
- Fasten one screw on display stamping with the torx plus 3IP screwdriver as shown in Fig 3.

Part: G730-09924-00 (stamping plate display BTB)

Part: G250-06929-01 (screw)



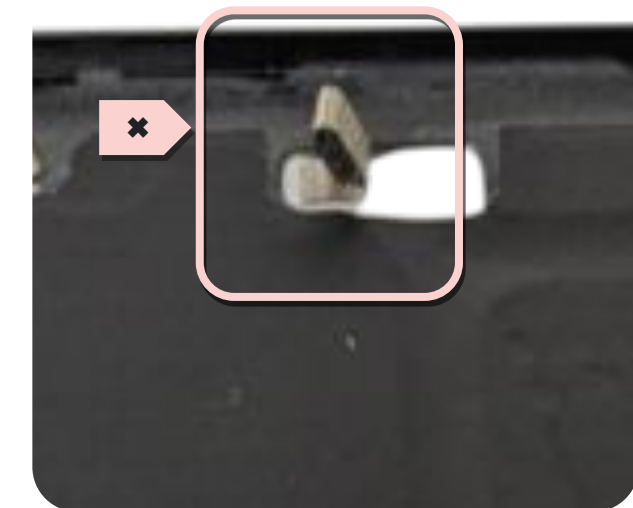
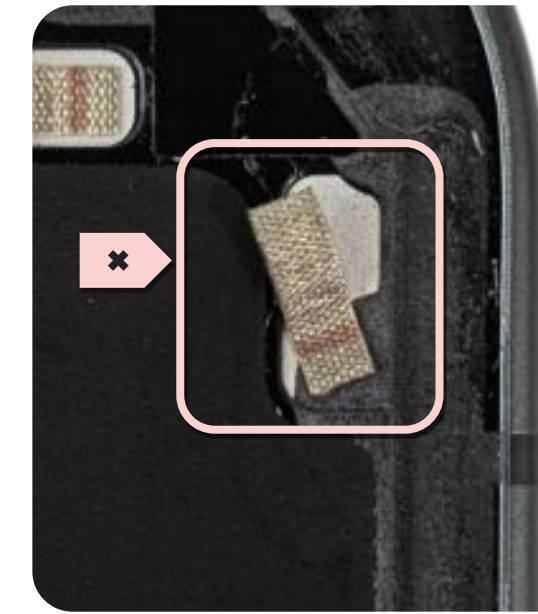
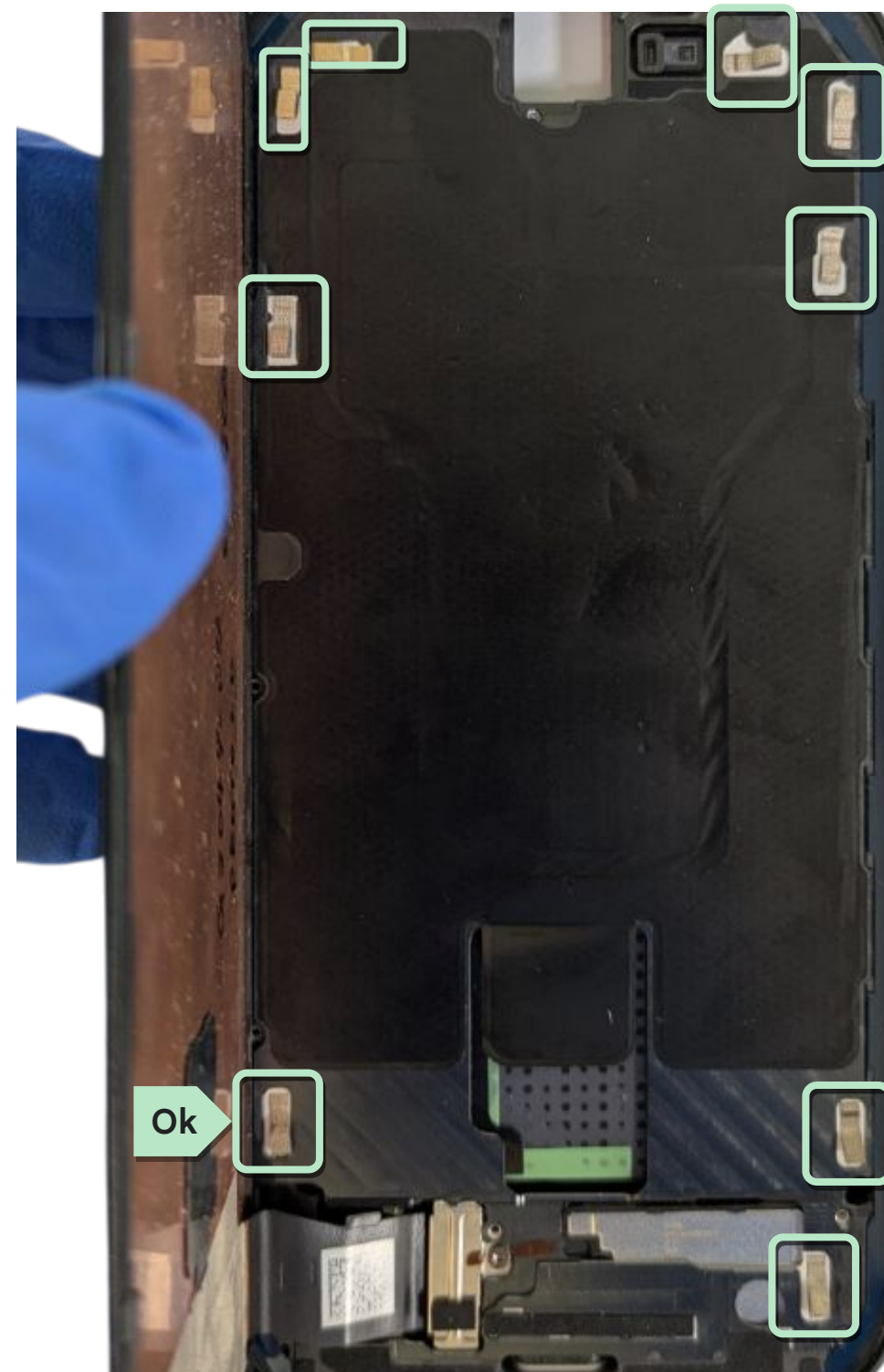
Inspect the P-sensor rubber

Make sure that the P-sensor rubber isn't damaged, missing or skewed, and that it's placed in the correct position.



Inspect the enclosure FOF

Make sure that the FOF isn't damaged, missing or skewed, and that it's placed in the correct position.



Remove the release liner

- Remove the CG PSA release liner before assembly.
- For the **new display**, the display PSA is on the **display side**.
- For the **reused display**, the display PSA is on the **enclosure side**.

New display



Reused display



Display assembly

- Align the display with the enclosure at all four corners first.
- After the display is aligned, lower the display slowly to complete the assembly.

Part: G949-01571-00 (display module)



Use caution

Make sure that all protective films are removed before you press.



Finished! Need assembly instructions? →

Place the device in the fixture

Stack the universal holder onto the base using the **D1** positions.

To assemble display require the **display press rubber** & **universal supporting rubber**.

Assembly the rest of the fixtures following the sequence: 1 → 2 → 3 → 4 → 5 → 6

Part 1: G940-00833-01 (Universal base plate 12mm)

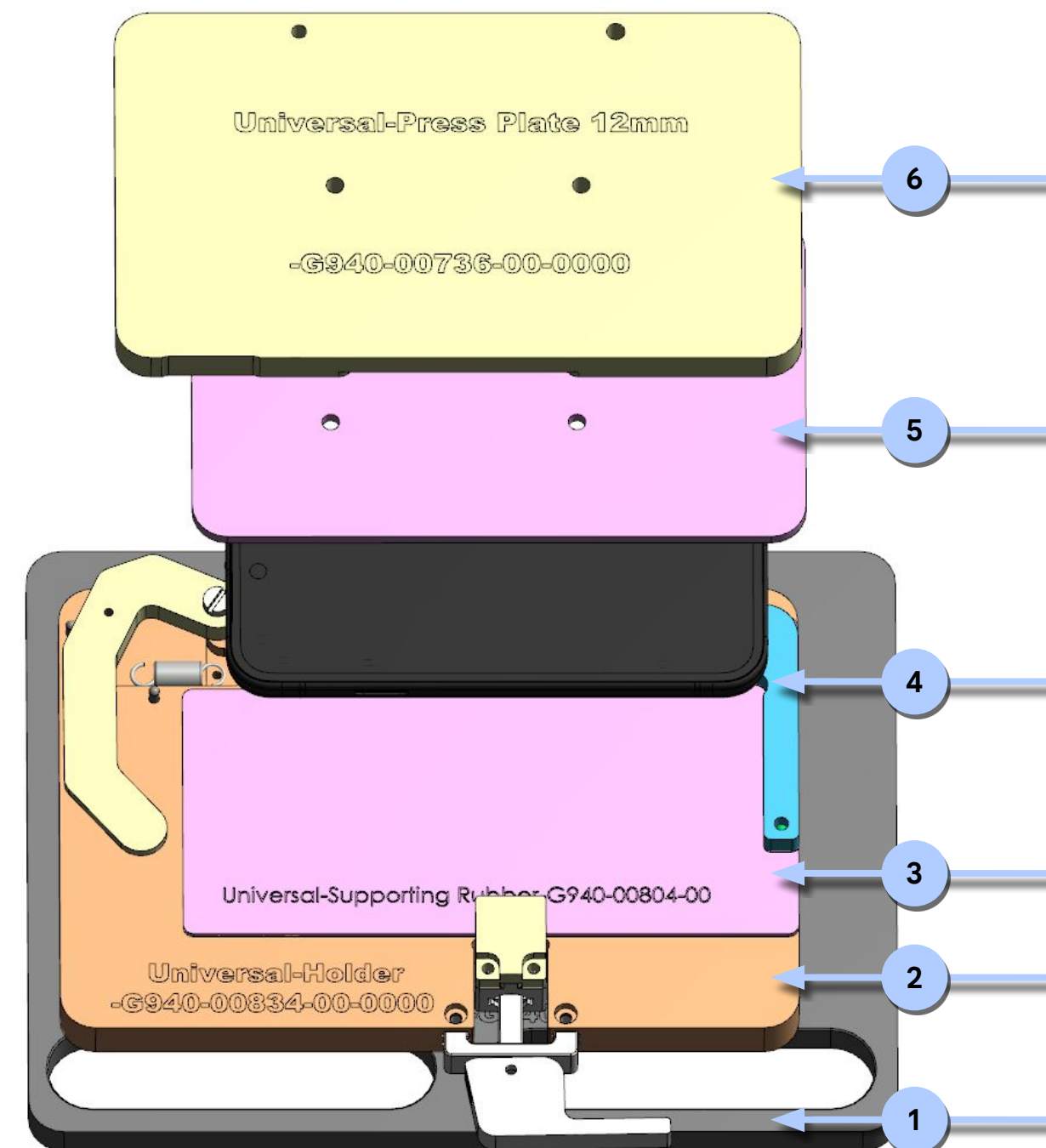
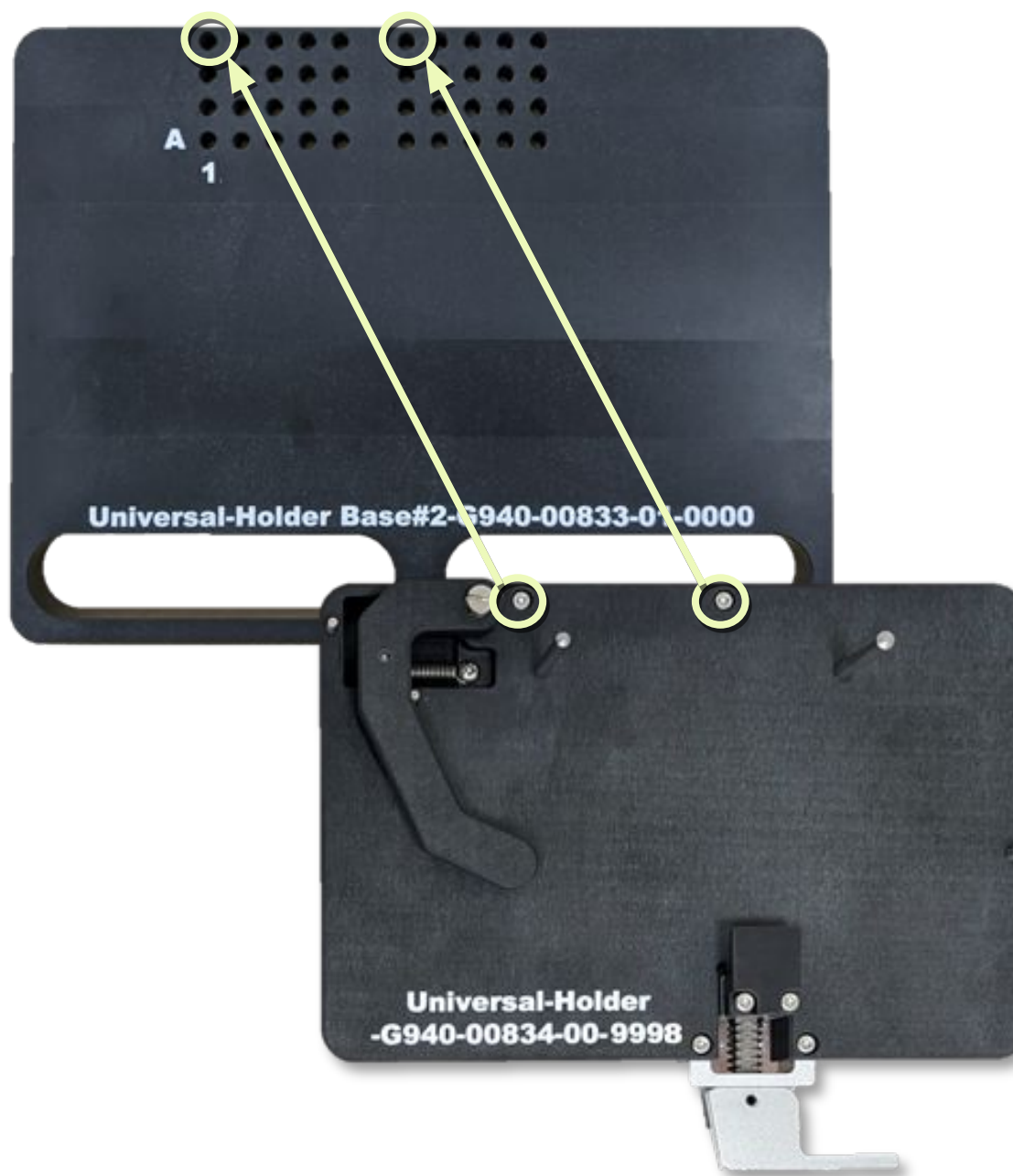
Part 2: G940-00834-00 (Universal holder)

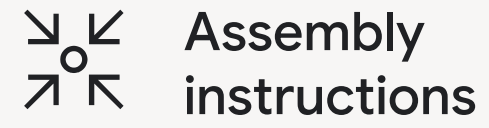
Part 3: G940-00804-00 (Universal supporting rubber)

Part 4: G940-01110-00 (Universal holder limiting block)

Part 5: G940-01070-00 (Pixel 10a fixture display press rubber)

Part 6: G940-00736-00 (Universal press plate 12 mm)





Front camera

Assemble the front camera

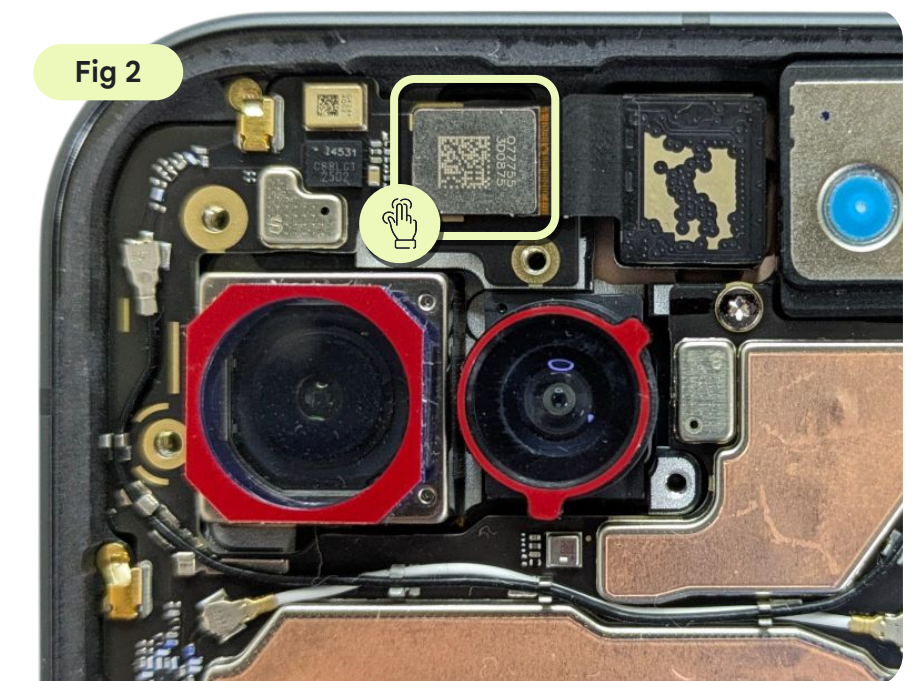
- Remove the FCAM protection cap and buckle the front camera to the logic board as shown in Fig 1.
- Apply pressure on the connector to complete the assembly as shown in Fig 2.

Part: G949-01589-00 (front camera)



Use caution

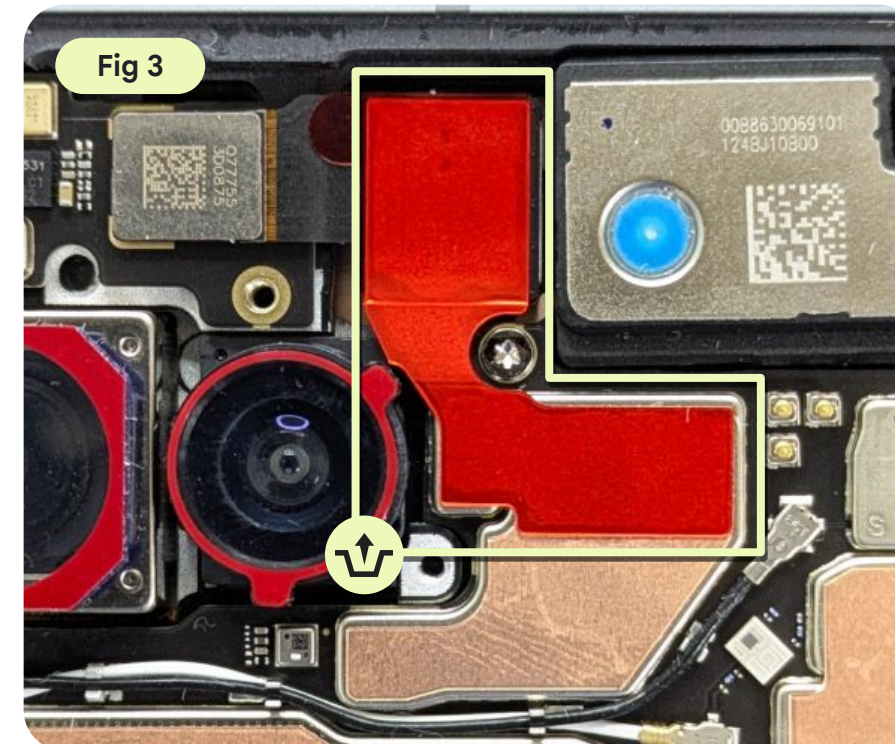
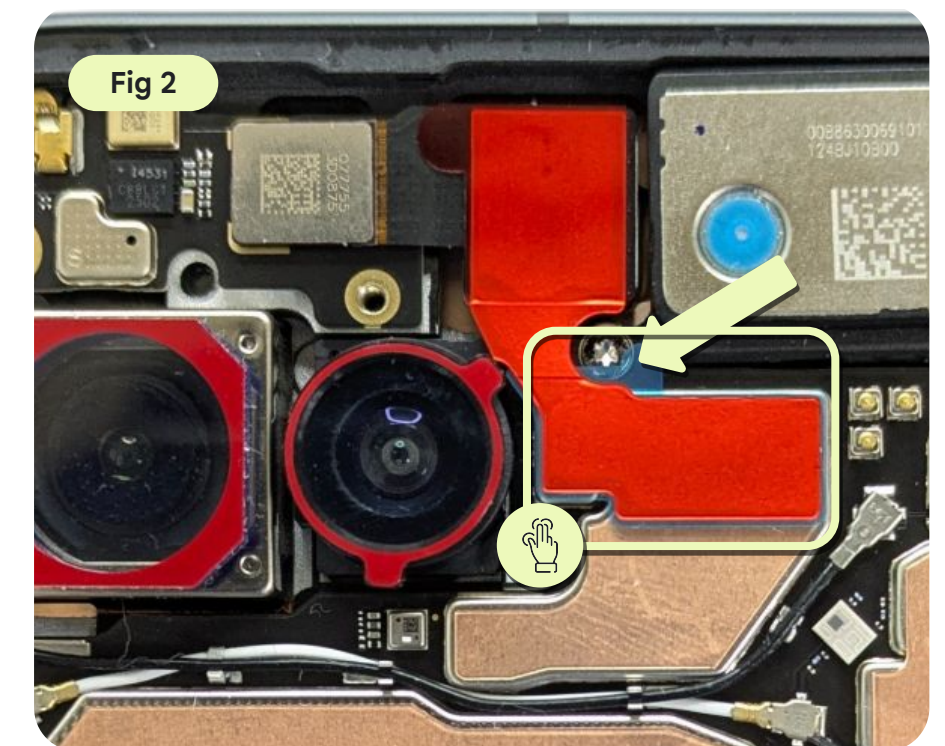
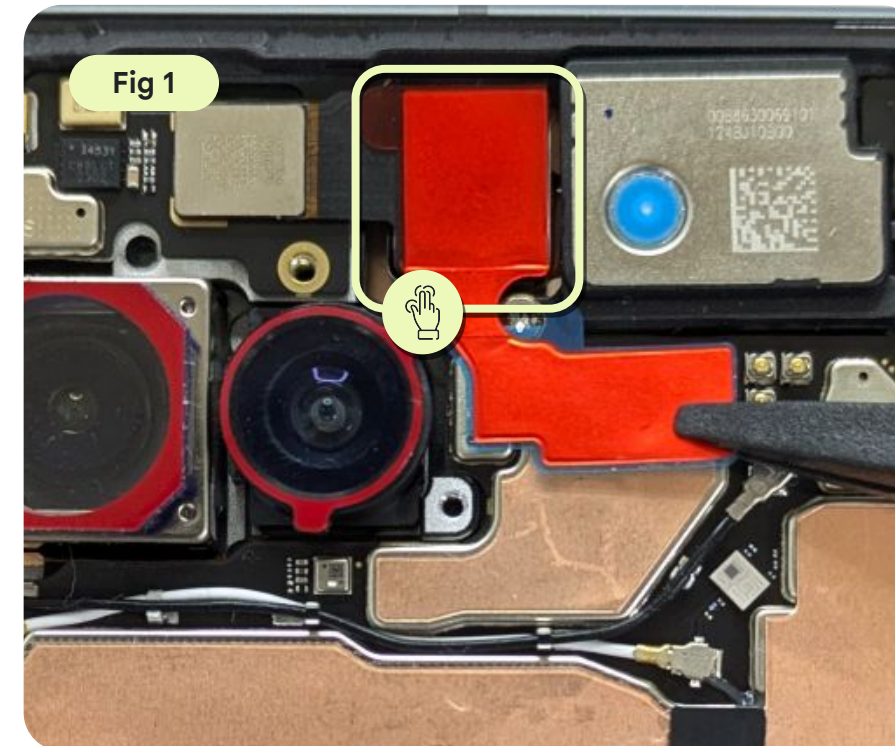
Make sure that the connection is fully secured.




Paste the copper foil

- Move the copper foil with ESD tweezers.
- Paste the copper foil on top of the front camera.
- Apply pressure to activate the adhesive as shown in Fig 1.
- Remove the blue release liner and apply pressure to activate the adhesive as shown in Fig 2.
- Remove the red release liner from the copper foil as shown in Fig 3.

Part: G806-15112-00 (FCAM copper foil)



 Assembly
instructions

Battery

Apply the 3M AP111 primer

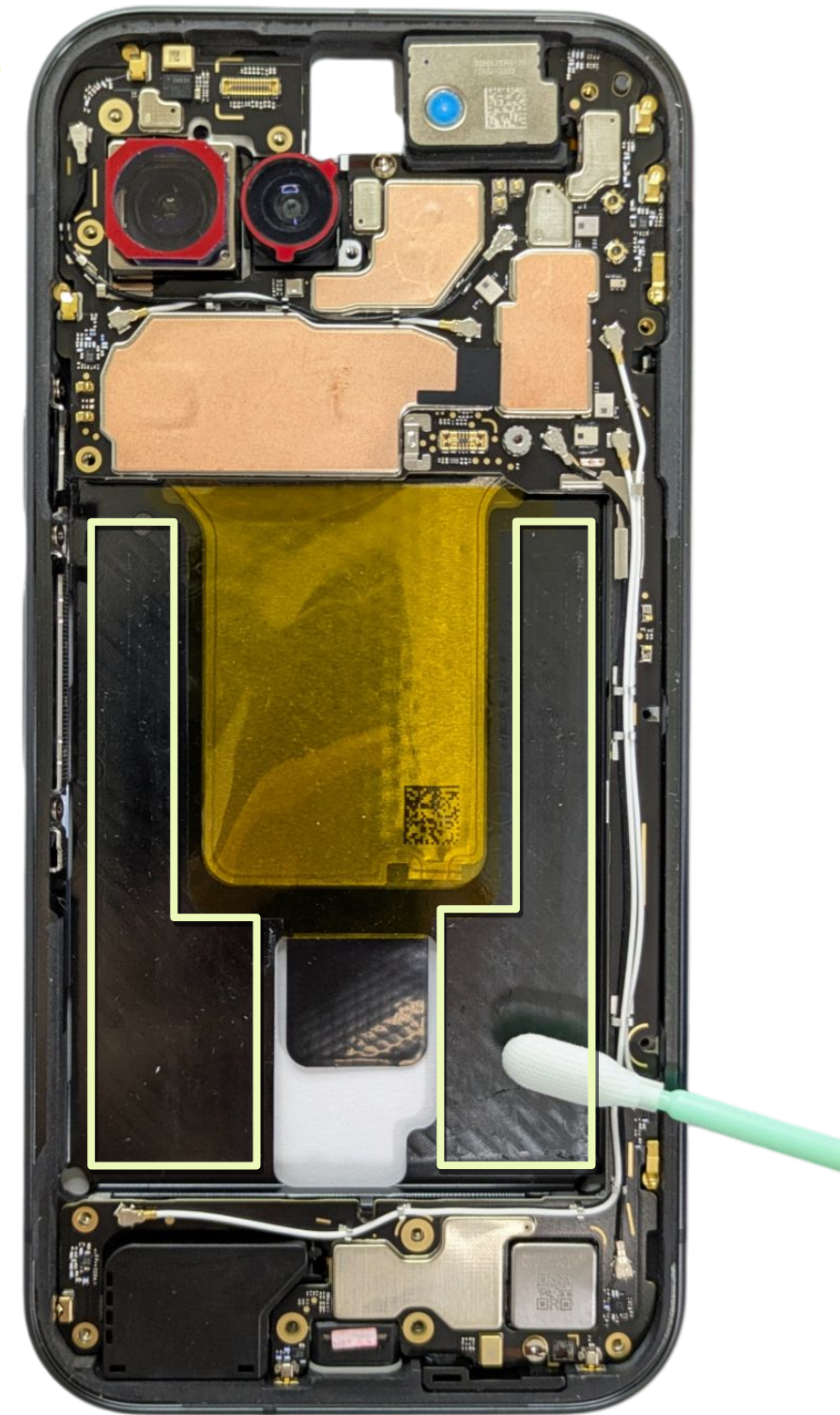
- If it's a new enclosure, remove the two release liners at the designated areas.
- Apply the 3M AP111 primer at the two designated areas of the enclosure as shown in Fig 1.



Use caution

The assembly should be completed within 25 minutes after you apply the primer.

Fig 1



Remove the release liner and masking tape

- Confirm the battery model to be **GFM4H**. If the model number isn't **GFM4H**, please don't use the battery.
- Use a suction bulb to pick up the battery, *don't* touch the battery shim area.
- Remove the release liner and masking tape from the battery with ESD tweezers.



Use caution

Perform cosmetic inspection on all replacement batteries before they're put into action.

Fig 1

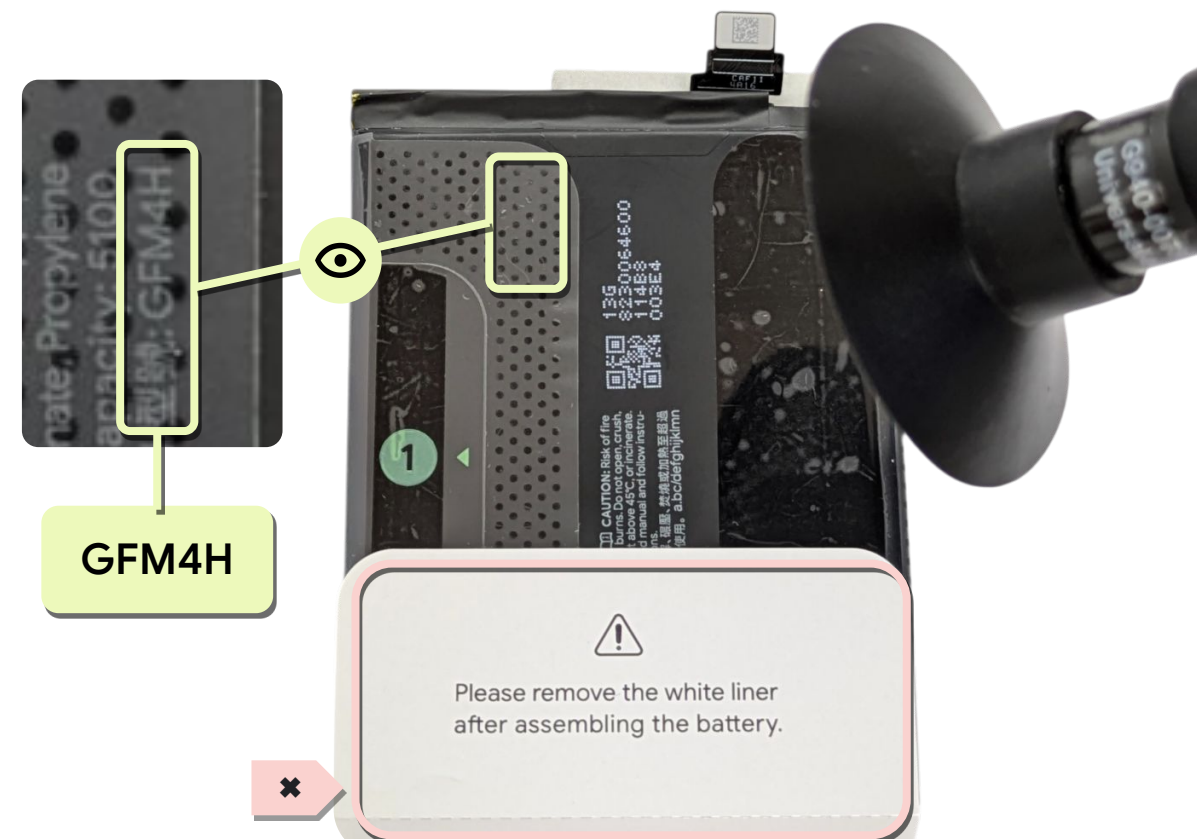
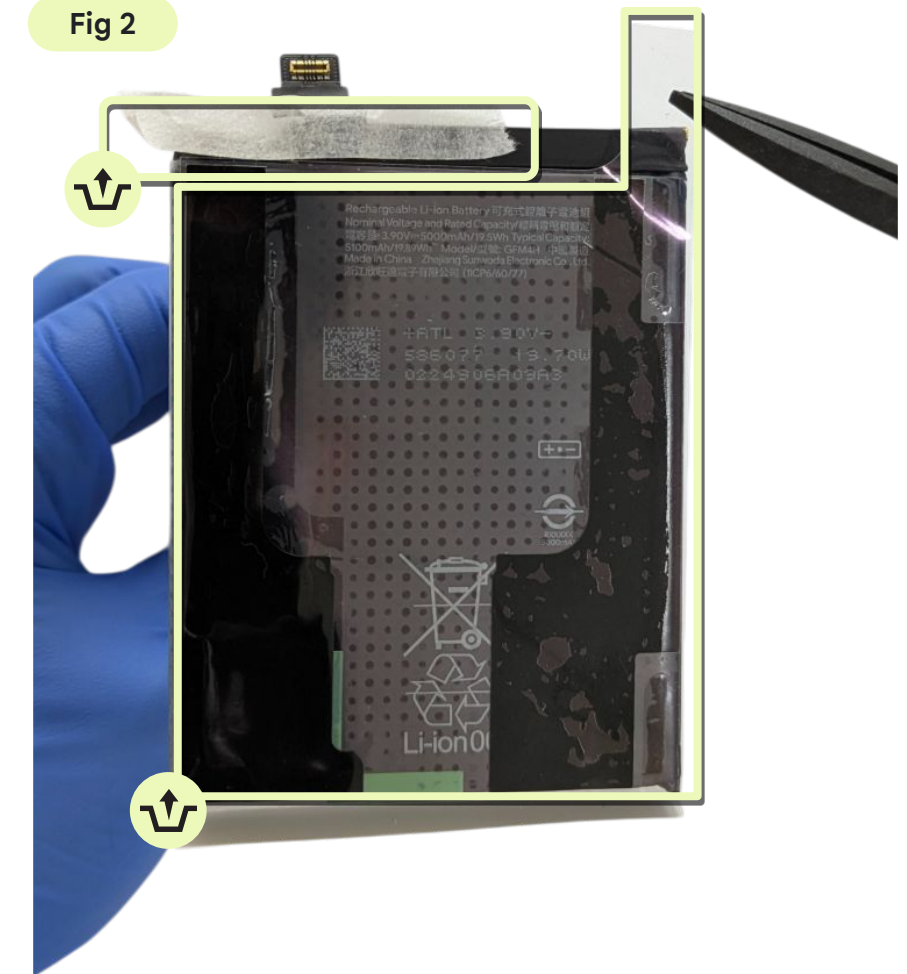
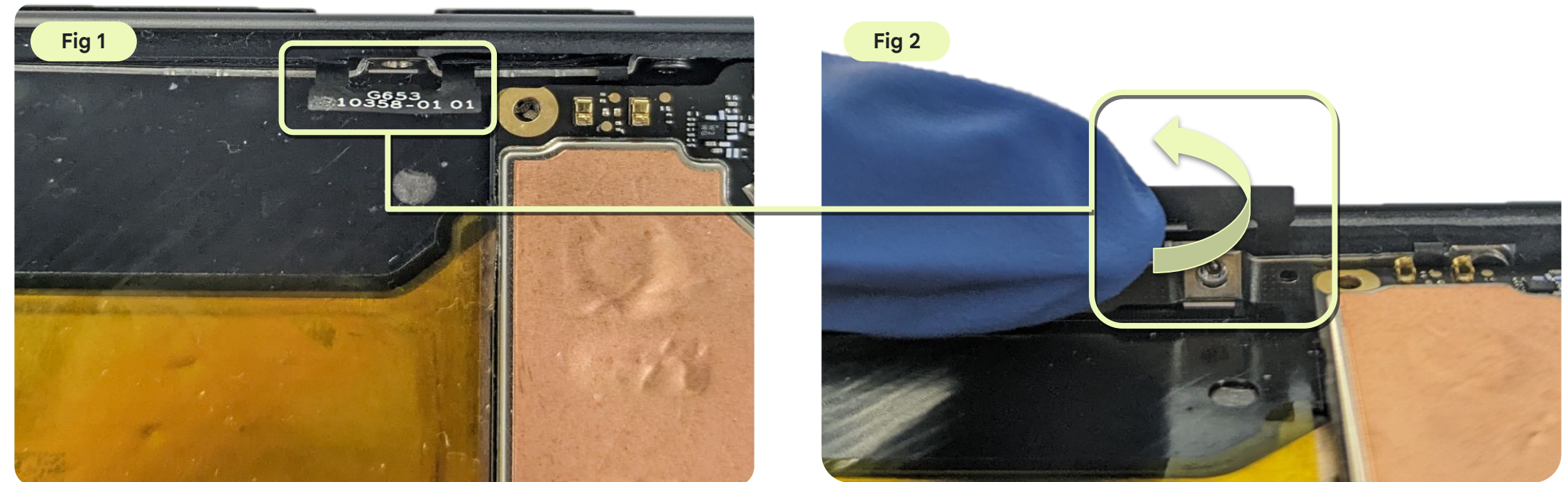


Fig 2



Fold the side key FPC

Fold the side key FPC towards outside as shown in Fig 1 and Fig 2.



Battery installation

- Align the battery with the dashed lines as shown in Fig 1.
- Press the battery down gently with the suction bulb.
- Remove the battery shim after you install the battery as shown in Fig 2.

Part: G949-01593-00 (replacement battery)

Part: G949-01594-00 (replacement battery)



Use caution

Don't skip this step.

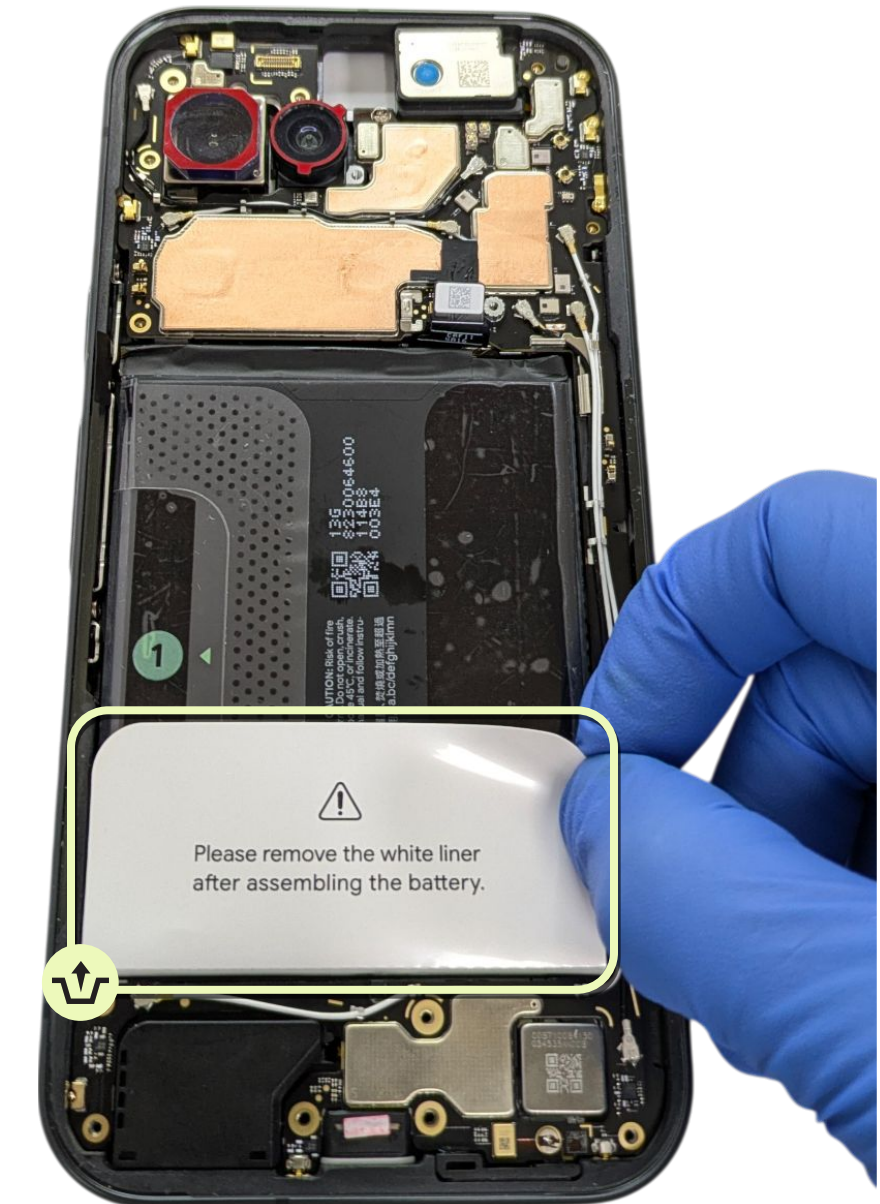
Battery spacing is critical for product performance.

Use extra care to align correctly.

Fig 1



Fig 2



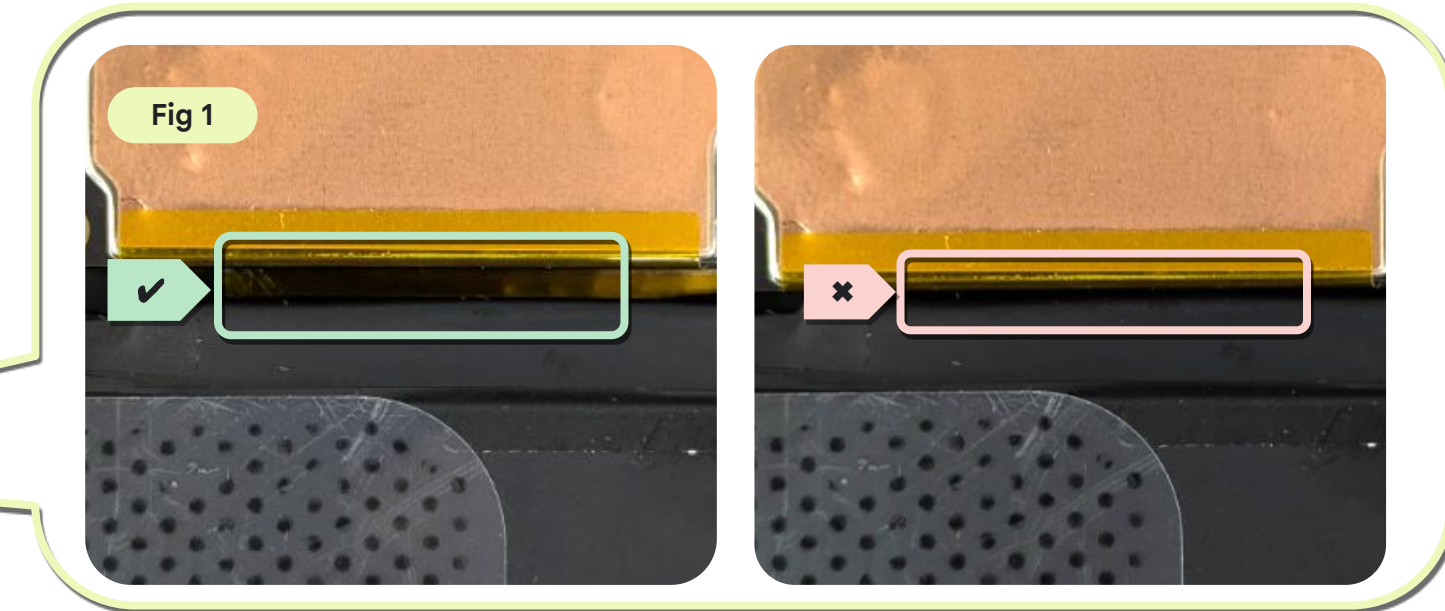
Inspect the battery

- Make sure that the battery keeps a distance from the logic board.
- The vapor chamber should be visible after the battery installation as shown in Fig 1.



Use caution

The battery needs to be scrapped and reinstalled with a new one, if there isn't enough space above and on the right side of the battery.



The vapor chamber should be visible after the battery installation as shown in Fig 1.

Battery press process

Stack the universal holder onto the base with **B4** holes.

Assemble the rest of the fixtures in this sequence:

1 → 2 → 3 → 4 → 5 → 6

Part 1: G940-00833-01 (universal base plate 12 mm)

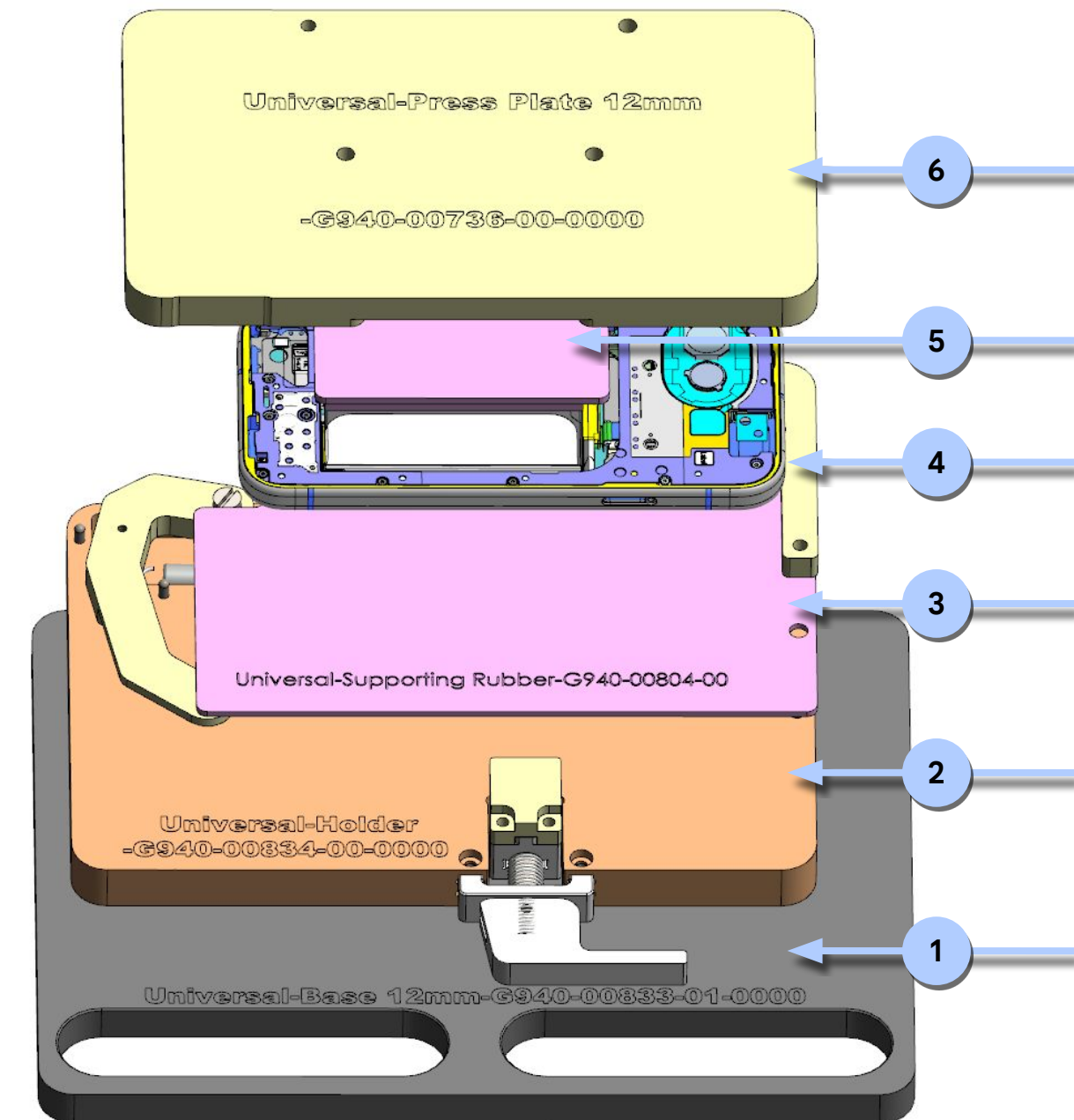
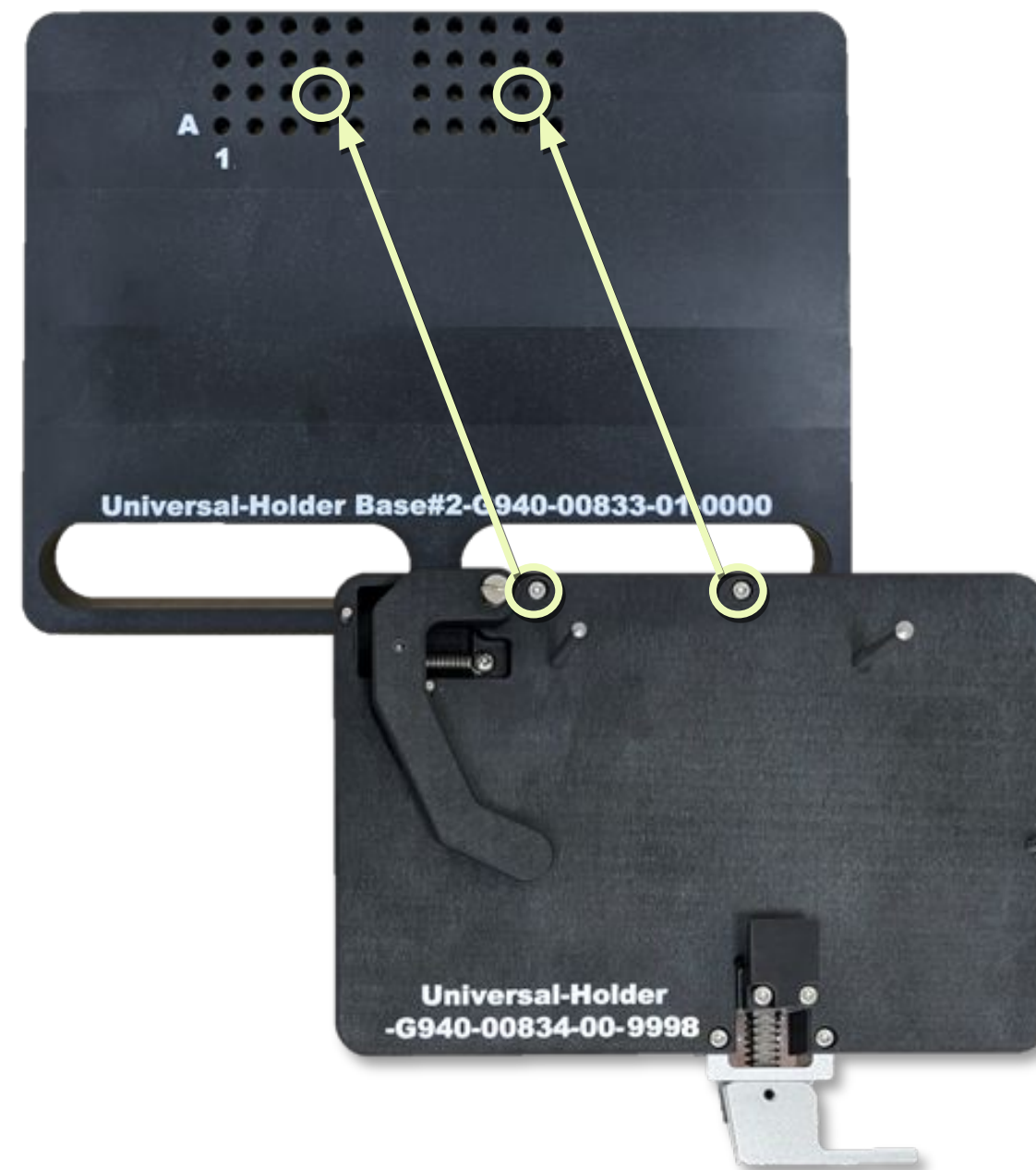
Part 2: G940-00834-00 (universal holder)

Part 3: G940-00804-00 (universal supporting rubber)

Part 4: G940-01110-00 (universal holder limiting block)

Part 5: G940-01068-00 (Pixel 10a fixture battery press rubber)

Part 6: G940-00736-00 (universal press plate 12 mm)



Not finished yet! One step remaining →

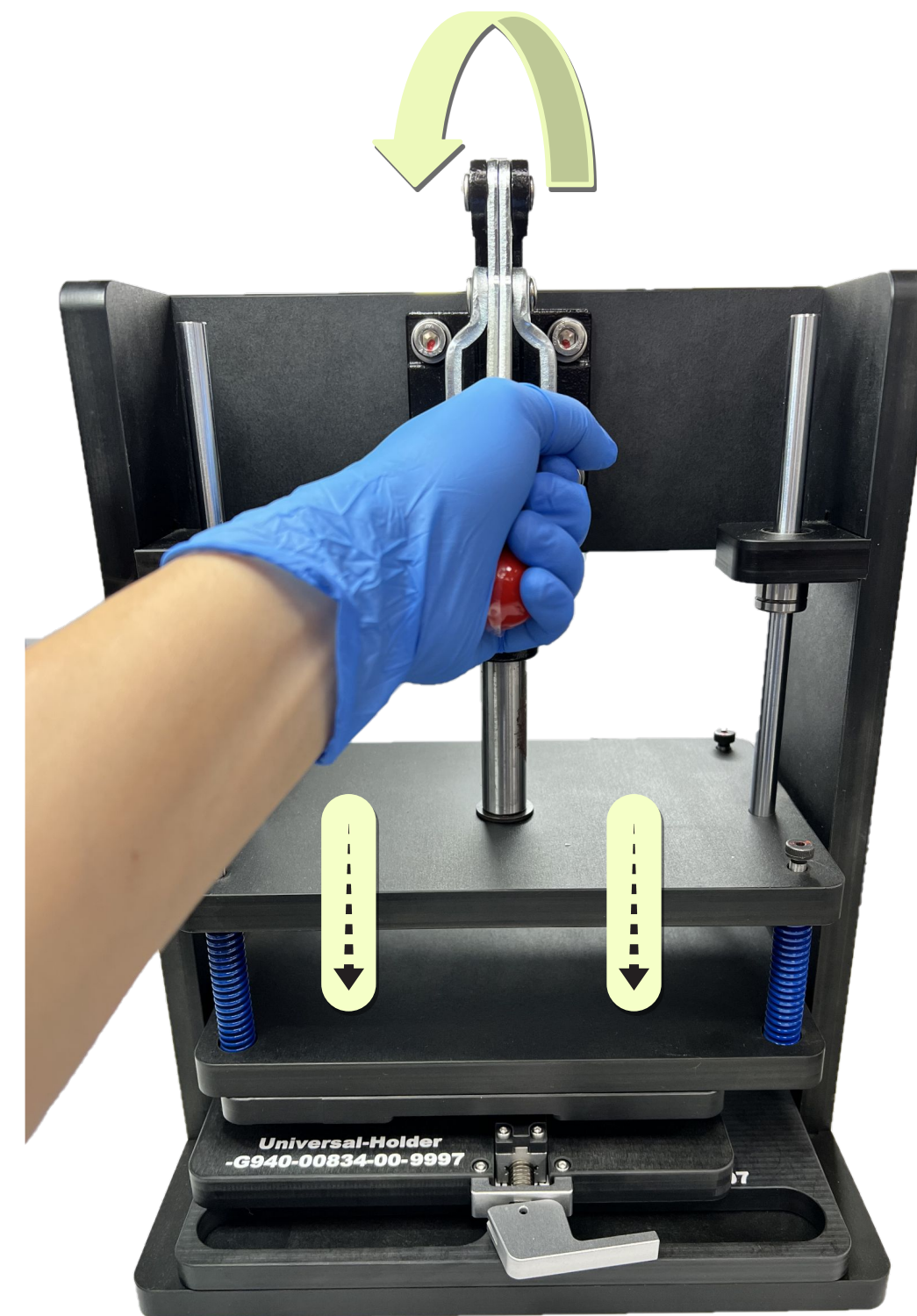
Battery press process

- Send the holder to the universal press such that the part number faces outside.
- Continue to press down the battery for **30 seconds**.



Use caution

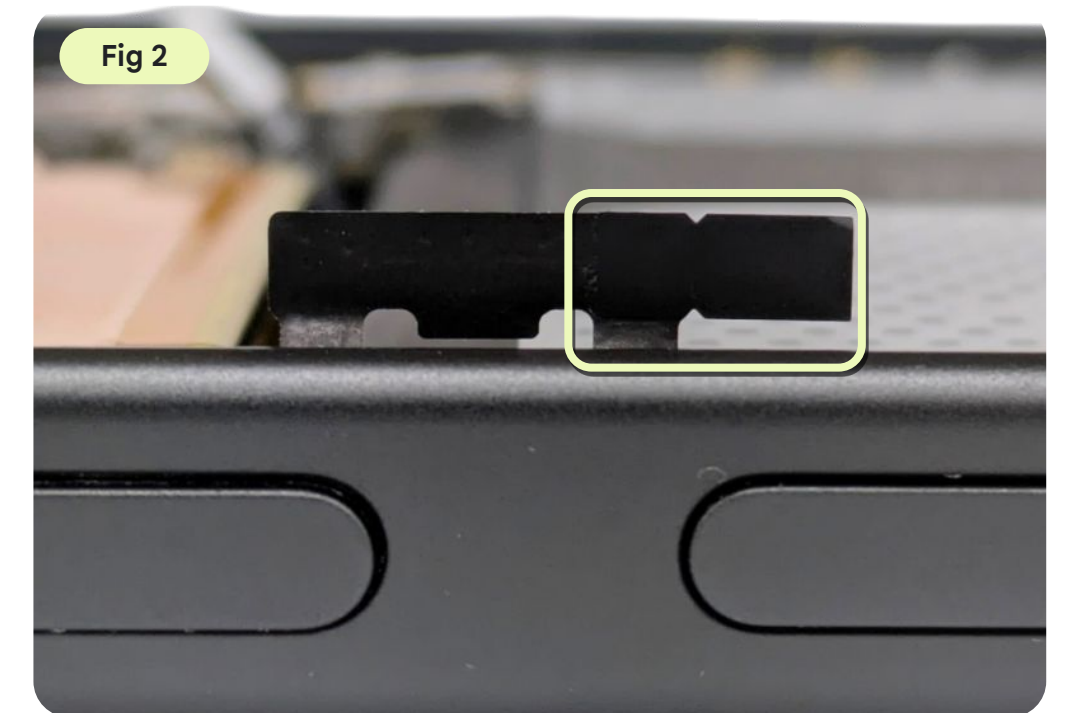
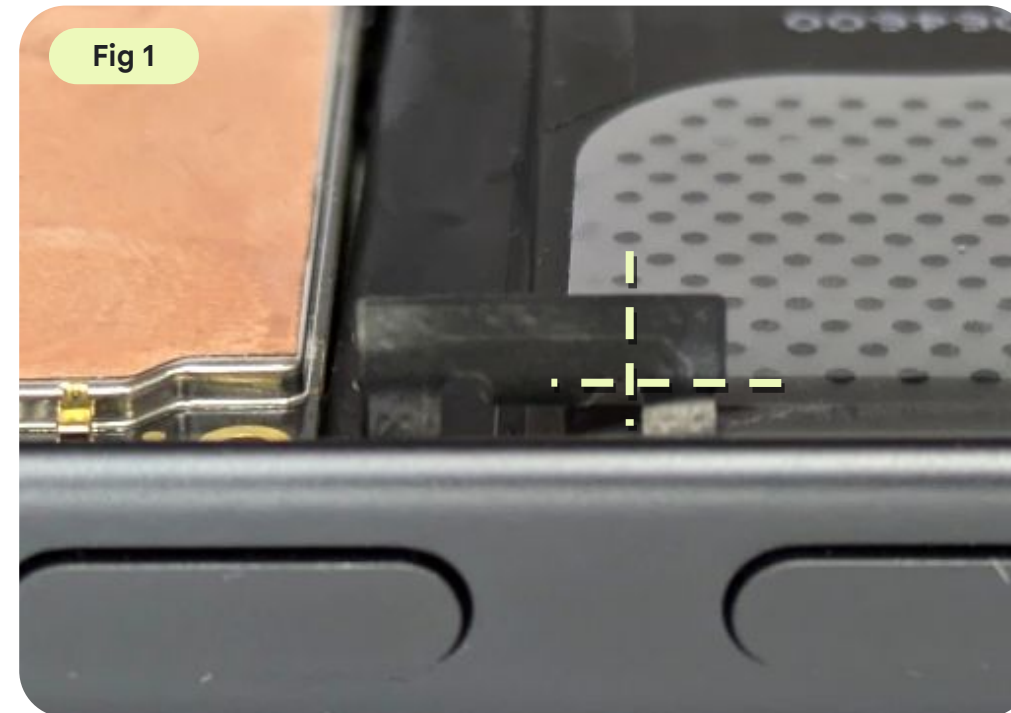
Keep your hands clear during operation.



Attach the side key FPC mylar

- Use ESD tweezers and paste the mylar on the side key FPC as shown in Fig 1 and Fig 2.
- Tape the side key FPC to the battery with the existing mylar as shown in Fig 3.

Part: G806-15827-00 (side key FPC mylar)



Buckle the battery FPC and install the bracket

- Buckle the battery FPC to the logic board.
- Apply pressure on the B2B connector to confirm the connection as shown in Fig 1.
- Insert the stamping plate into the socket on the logic board as shown in Fig 2.
- Fasten a screw onto the stamping plate with an adjustable torque screwdriver as shown in Fig 3.

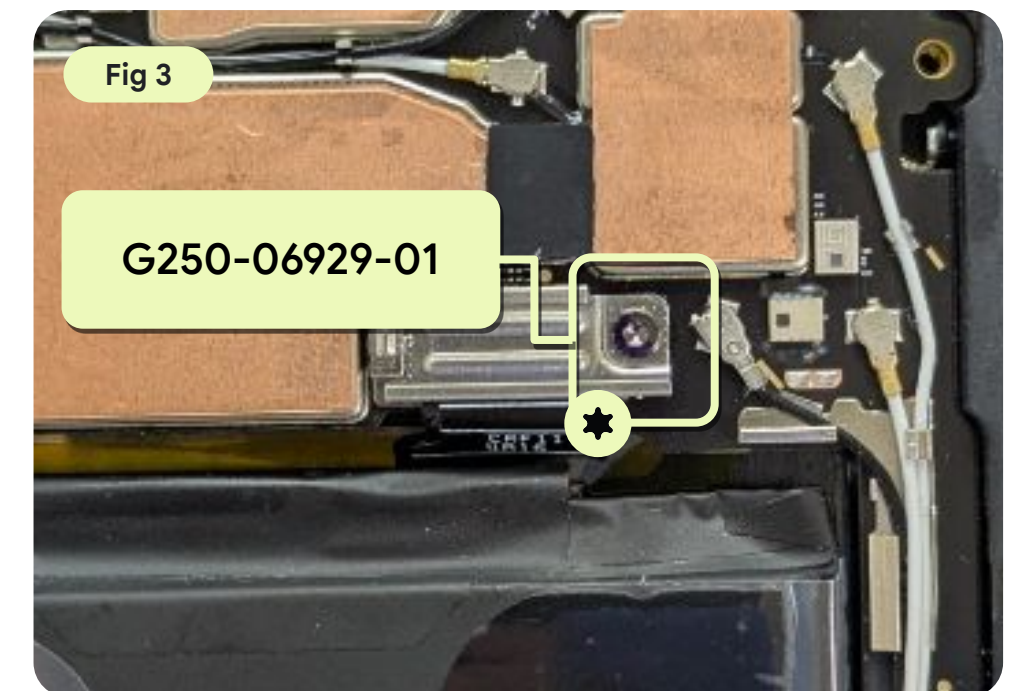
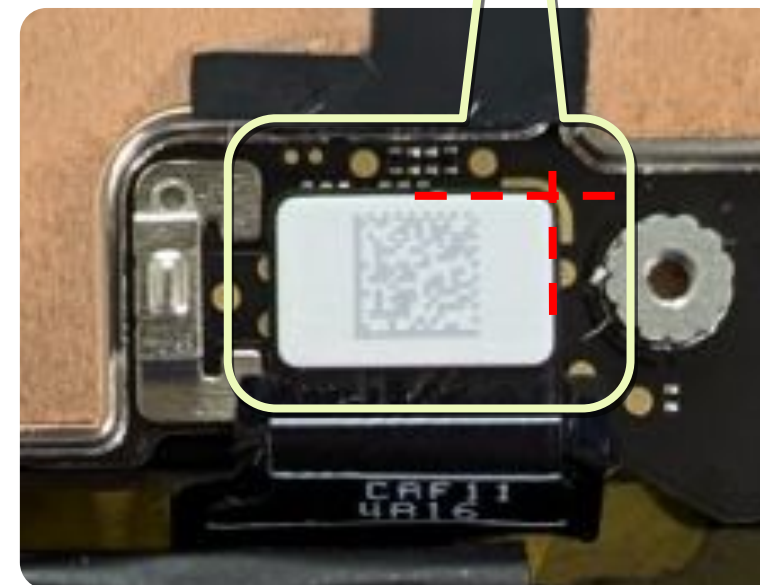
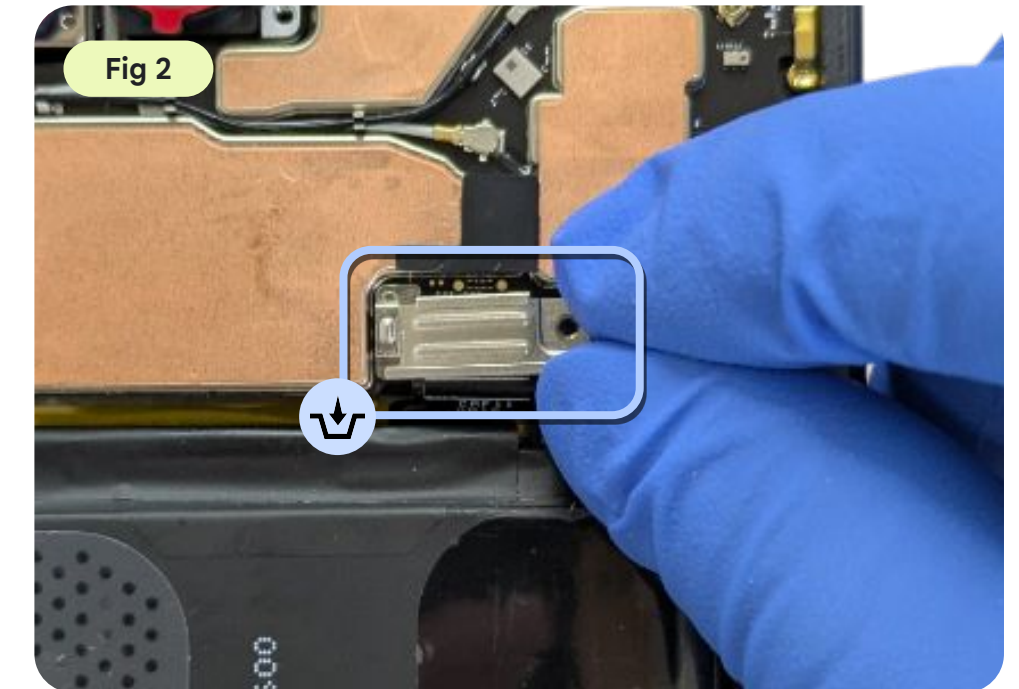
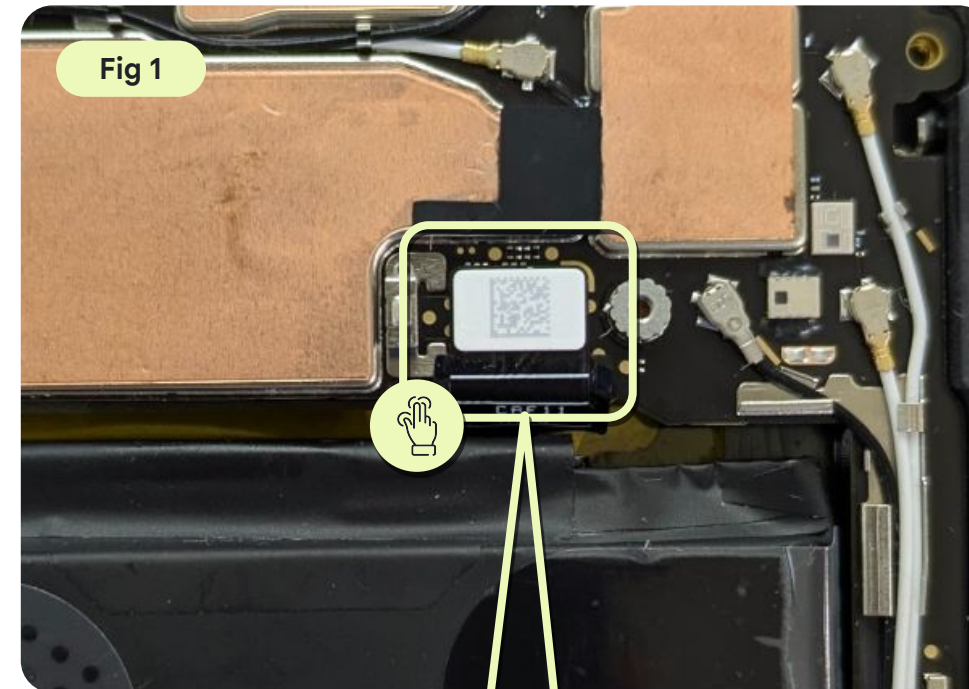
Part: G730-09926-00 (stamping plate battery)

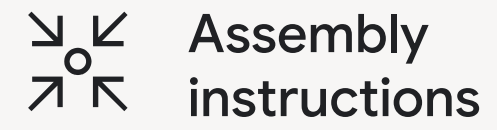
Part: G250-06929-01*1 (screw)



Use caution

The upper right hand corner of the connector should align with the curved line on the logic board. Re-buckle the connector as necessary.





Inner housing

Rework on the inner housing

(for a reused inner housing)

- Use an ESD spudger to scrub off the adhesive on the inner housing.
- Wipe the surface with a cotton swab and IPA to remove the remaining residues.

Use caution

Don't damage the graphite sheet.

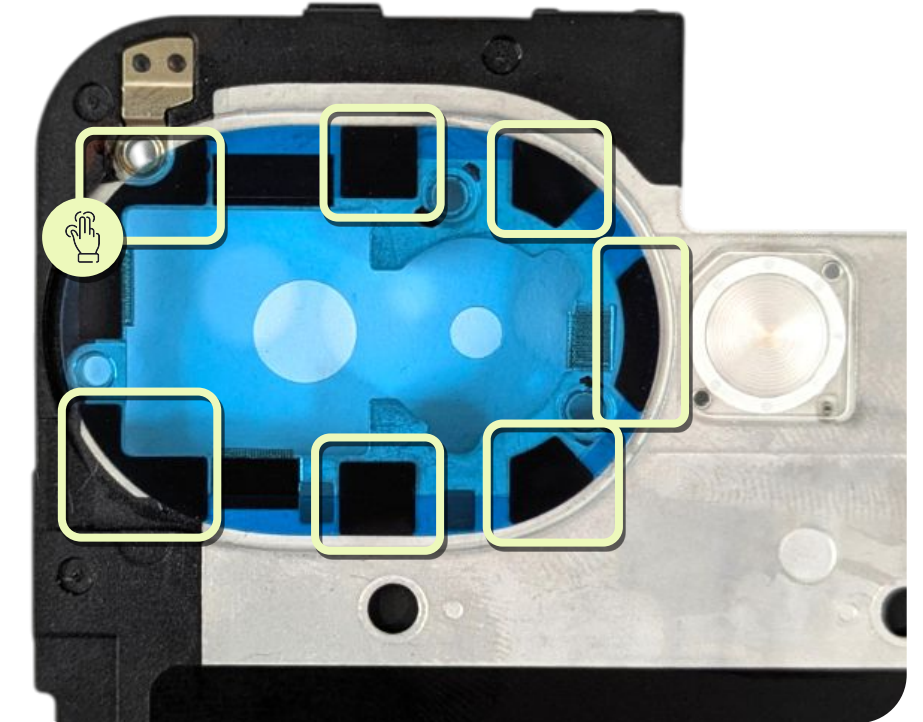
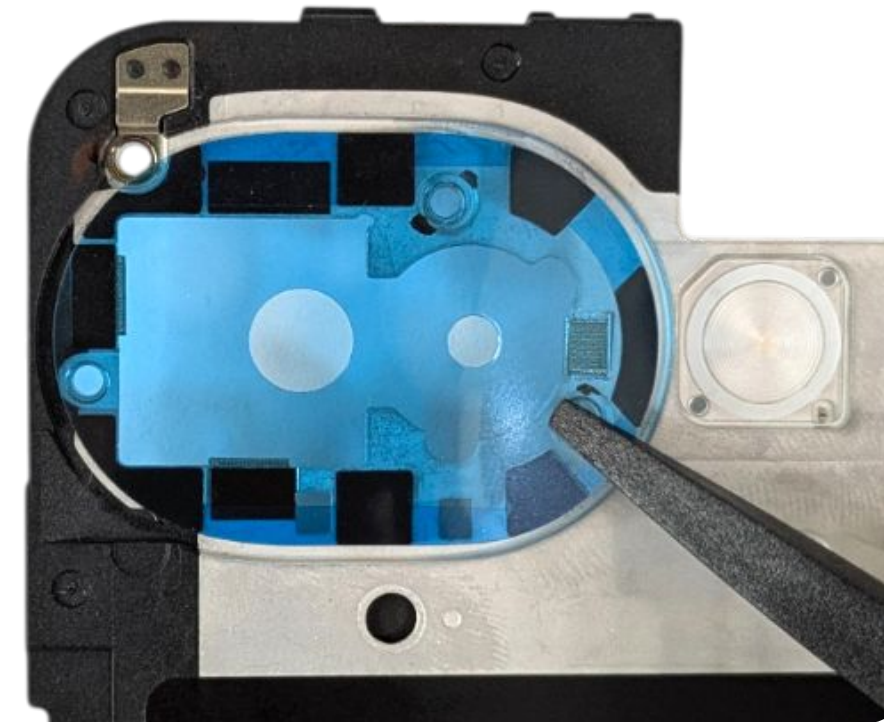


Paste adhesives on the inner housing

(for a reused inner housing)

- Paste a new adhesive on the inner housing with ESD tweezers, and apply pressure to activate the adhesive.
- Remove the outer release liner.

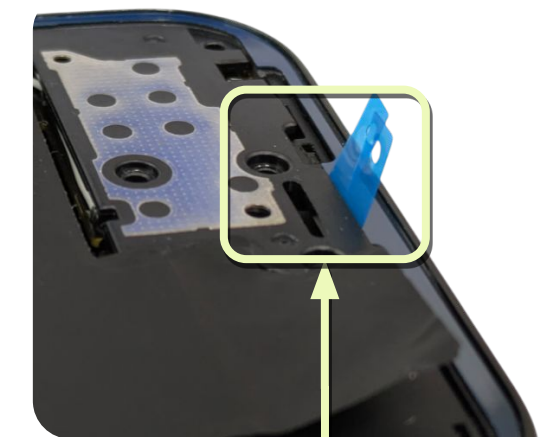
Part: G806-14884-01 (RCAM trim, IH, STA5)



Install the inner housing

- First insert the front end of the inner housing into the enclosure, and then the remaining part.
- Ensure that all of the snaps on the inner housing are securely clipped into the enclosure.

Part: G949-01588-00 (inner housing)



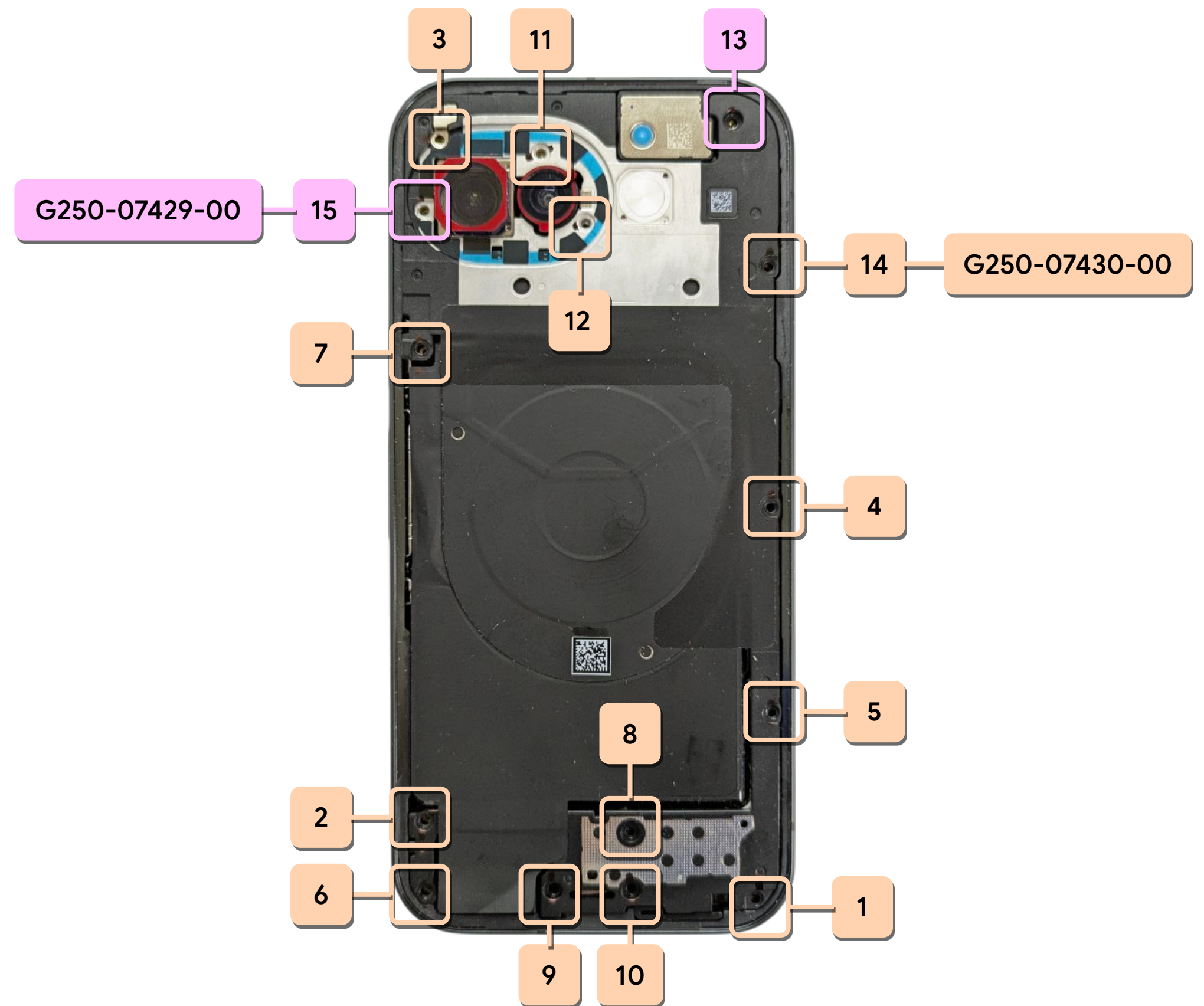
**Make sure the PSA liners are not in the way.
Do NOT tear these off yet.**


Fasten 15 screws

Fasten 15 screws on the inner housing with an adjustable torque screwdriver. For more information, see [torque setting](#).

Part: G250-07429-00*2 (screw)

Part: G250-07430-00*13 (screw)



 Assembly
instructions

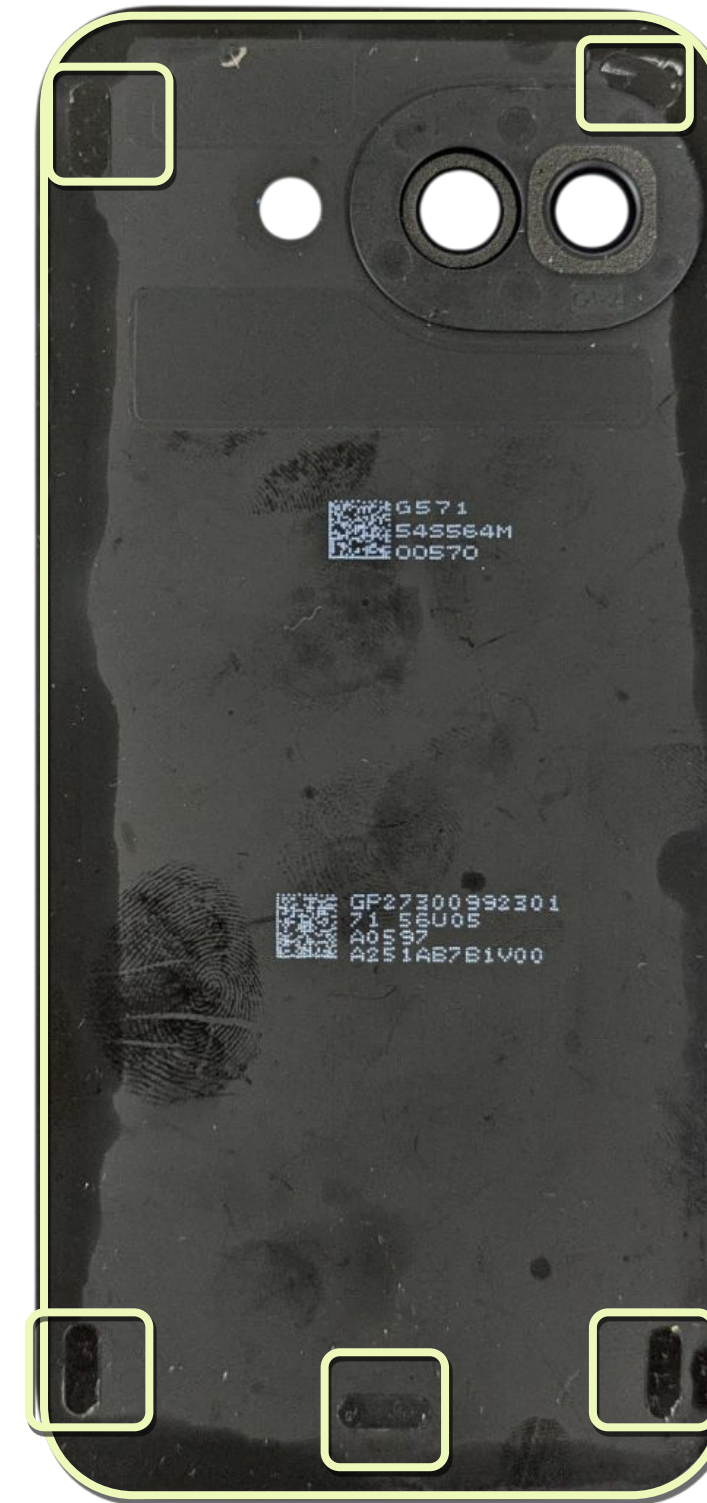
Back cover

Rework on the back cover

(for a reused back cover)

- **Outer edge of back cover:** remove any adhesive residue from the outer edge of the back cover with an ESD spudger or an electric glue remover tool.
- **Five adhesive area:** use ESD tweezers or cotton swabs to scrub off the adhesives in the green square on the back cover.
- **All areas:** wipe the surface with a cotton swab and IPA to remove the remaining residue.

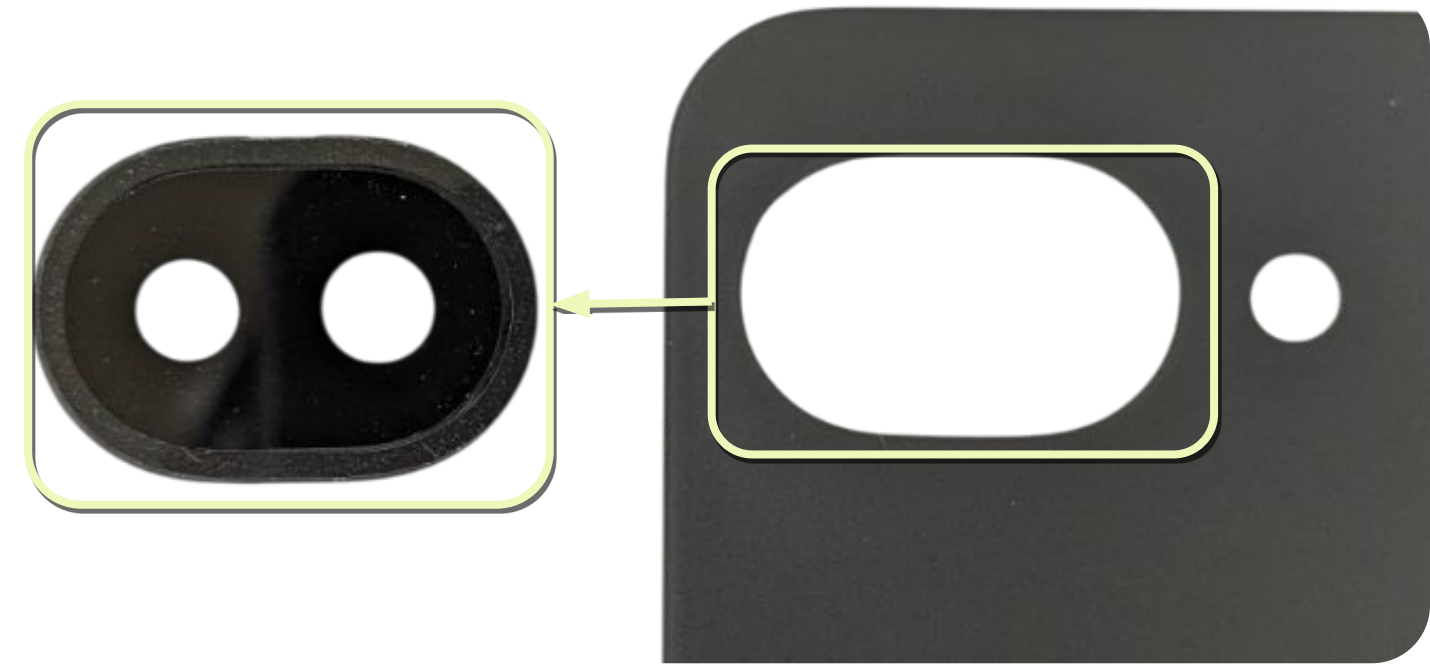
Part: multiple part numbers (back cover)



Rework on the visor area

(If it gets separated from BC)

- Use the IPA to clean off the residue from the visor and back cover.
- Apply the AP111 primer on the visor and attach a new PSA.
- Assemble the visor to back cover.
- Apply pressure on the adhesives to confirm the alignment.



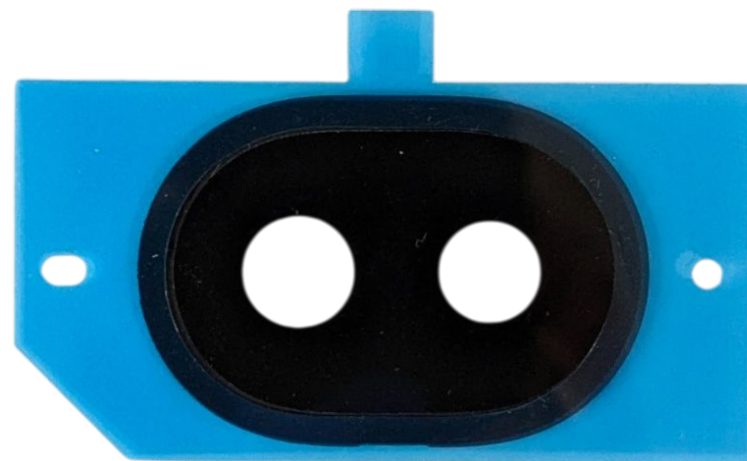
Part: G806-14879-01 (visor adhesive)

Note

Rework on the visor only when it's separated from the back cover.

Use caution

The assembly should be completed within 25 minutes after you apply the primer.



Remove the release liners

- **New back cover:** a new back cover has total of 10 liners at the barcode side.
- **Reused back cover:** a reused back cover has only has only one liner.



Remove the release liners and the caps

- Remove both the camera protective caps.
- Remove the release liner slowly from the enclosure.



Use caution

Avoid all contacts with the camera lenses.

New parts



Reused parts



Apply the 3M AP111 primer

(Both new and reused back cover)

Apply the 3M AP111 primer around the entire back cover twice following the designated order.



Use caution

The assembly should be completed within 25 minutes after you apply the primer.



Assemble the back cover and enclosure

Align the back cover with enclosure on all four corners before you assemble them.



Use caution

1. Make sure that the back cover is lowered horizontally.
2. Make sure that all protective films are removed before you press.



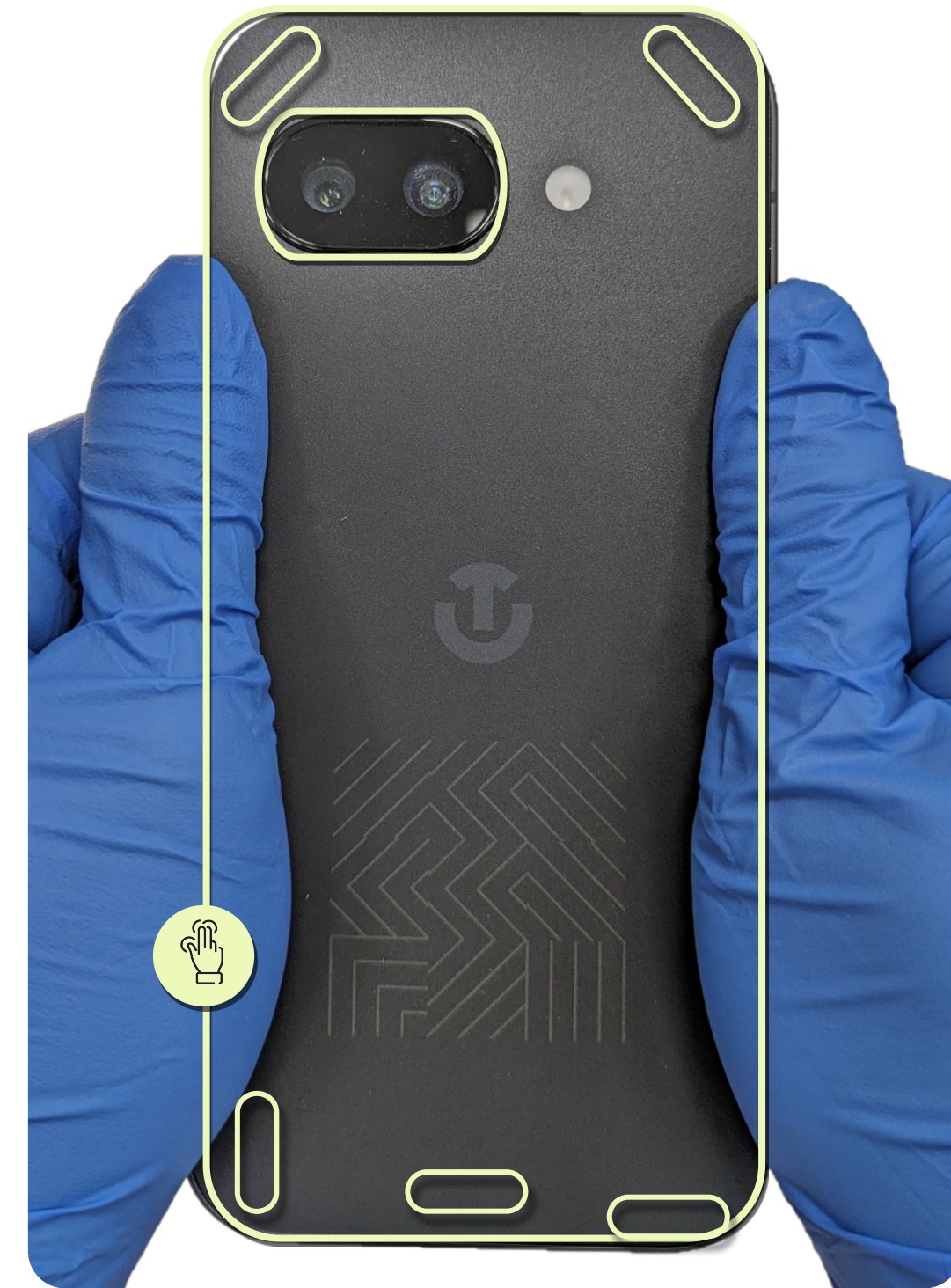
Activate the PSA

Press the back cover gently onto the device. Ensure that it's correctly aligned to the frame and no adhesive is visible.



Use caution

Don't touch the power key.



Place the device in the fixture

Stack the universal holder onto the base using the **D1** positions.

To assemble back cover require the **back cover press rubber** & **universal supporting rubber**.

Assembly the rest of the fixtures following the sequence: 1 → 2 → 3 → 4 → 5 → 6

Part 1: G940-00833-01 (Universal base plate 12mm)

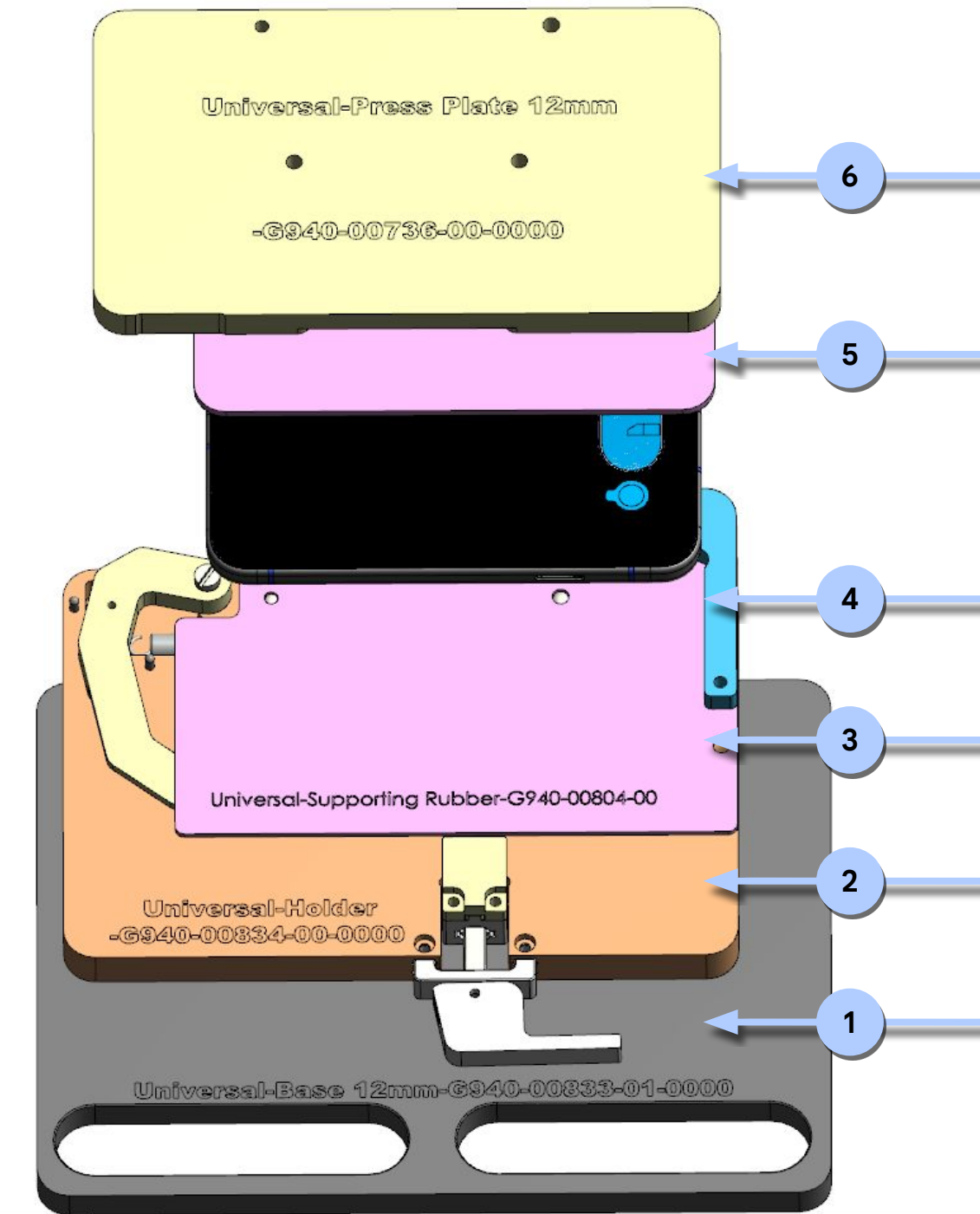
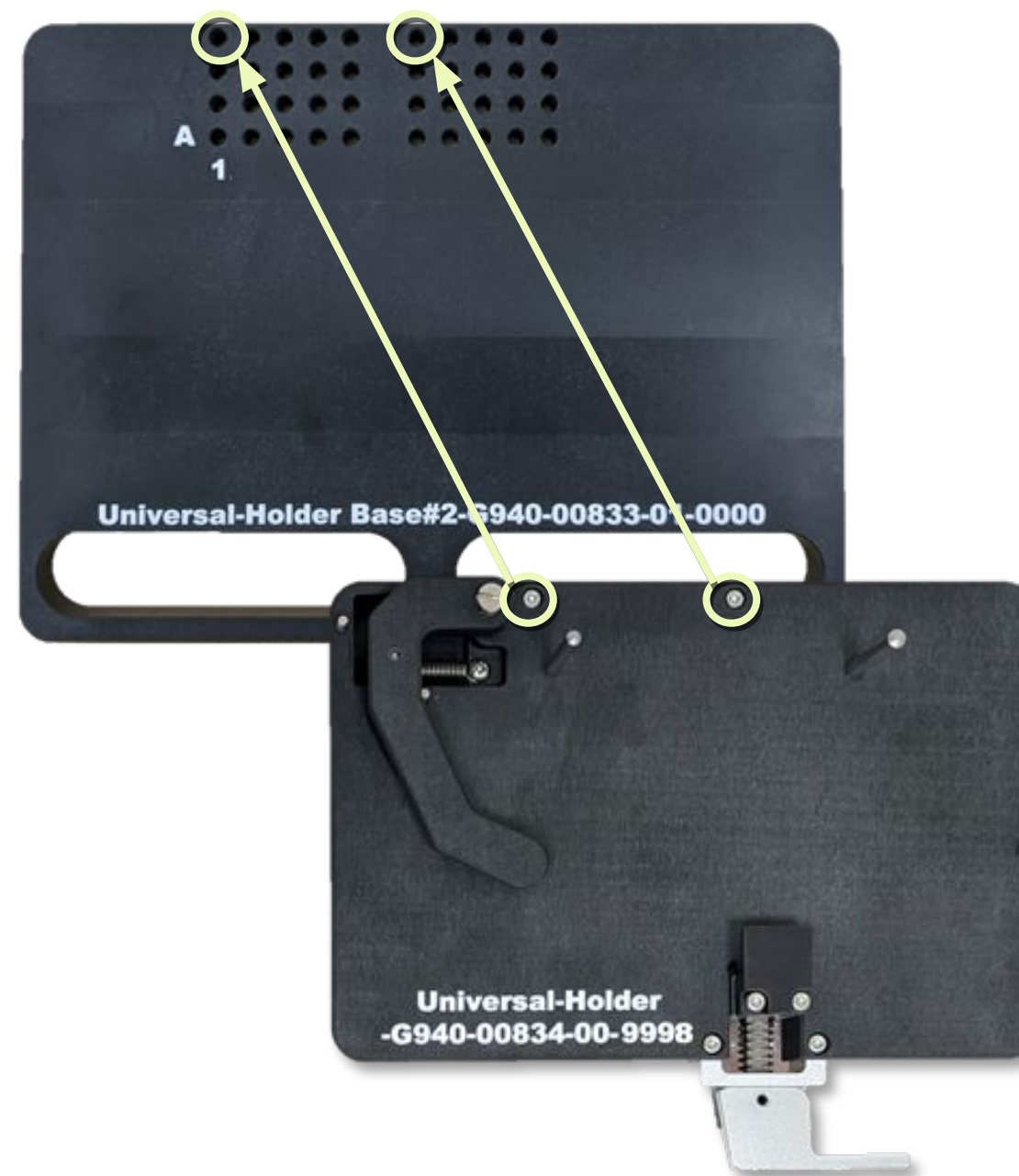
Part 2: G940-00834-00 (Universal holder)

Part 3: G940-00804-00 (Universal supporting rubber)

Part 4: G940-01110-00 (Universal holder limiting block)

Part 5: G940-01069-00 (Pixel 10a fixture back cover press rubber)

Part 6: G940-00736-00 (Universal press plate 12 mm)



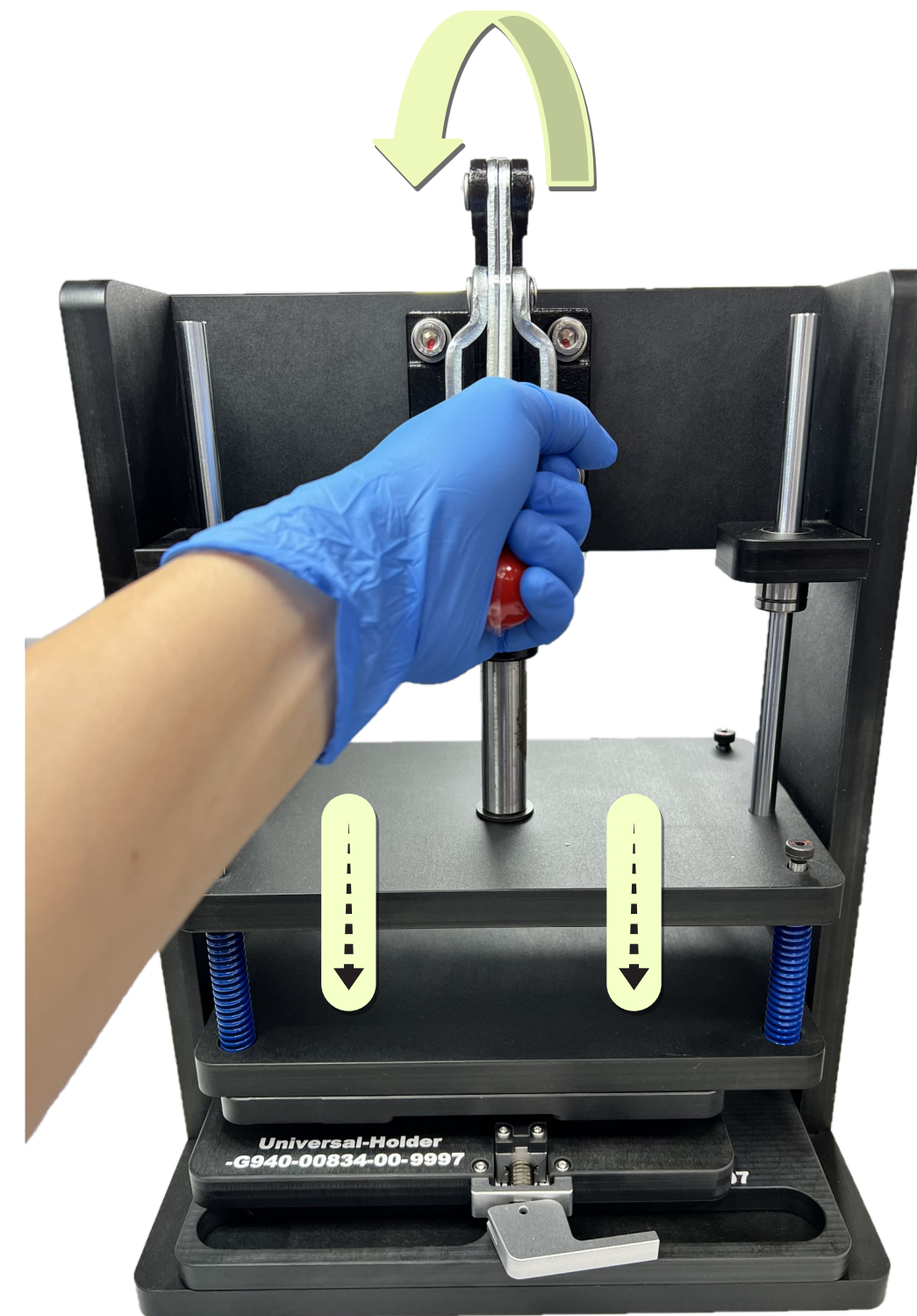
Press the device

- Send the holder to the universal press such that the part number faces outside.
- Continue to press down on the device for **45 seconds**.



Use caution

Keep your hands clear during operation.



Install the UDFPS calibration

Visit pixelrepair.withgoogle.com to download the UDFPS calibration software.



Note

This step is only needed if the display or the mainboard is replaced.





Pixel 10a repair manual

Troubleshooting

SoC block diagram

Top speaker

Battery

Connectors location

Bottom speaker

Sensor

Power

Vibrator

UDFPS

Wireless charge

Display

Camera

Mic 1

Touch panel

USB

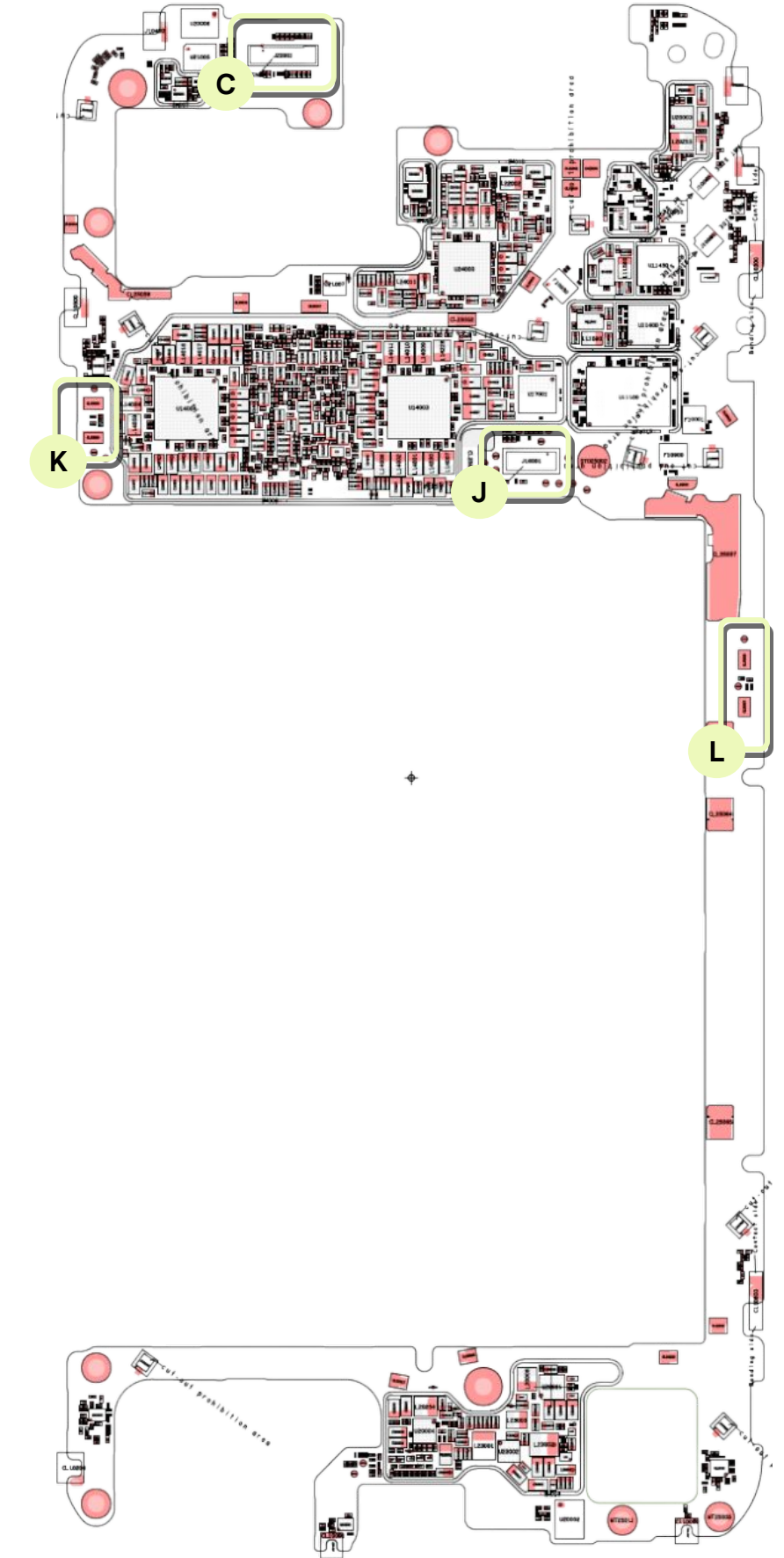
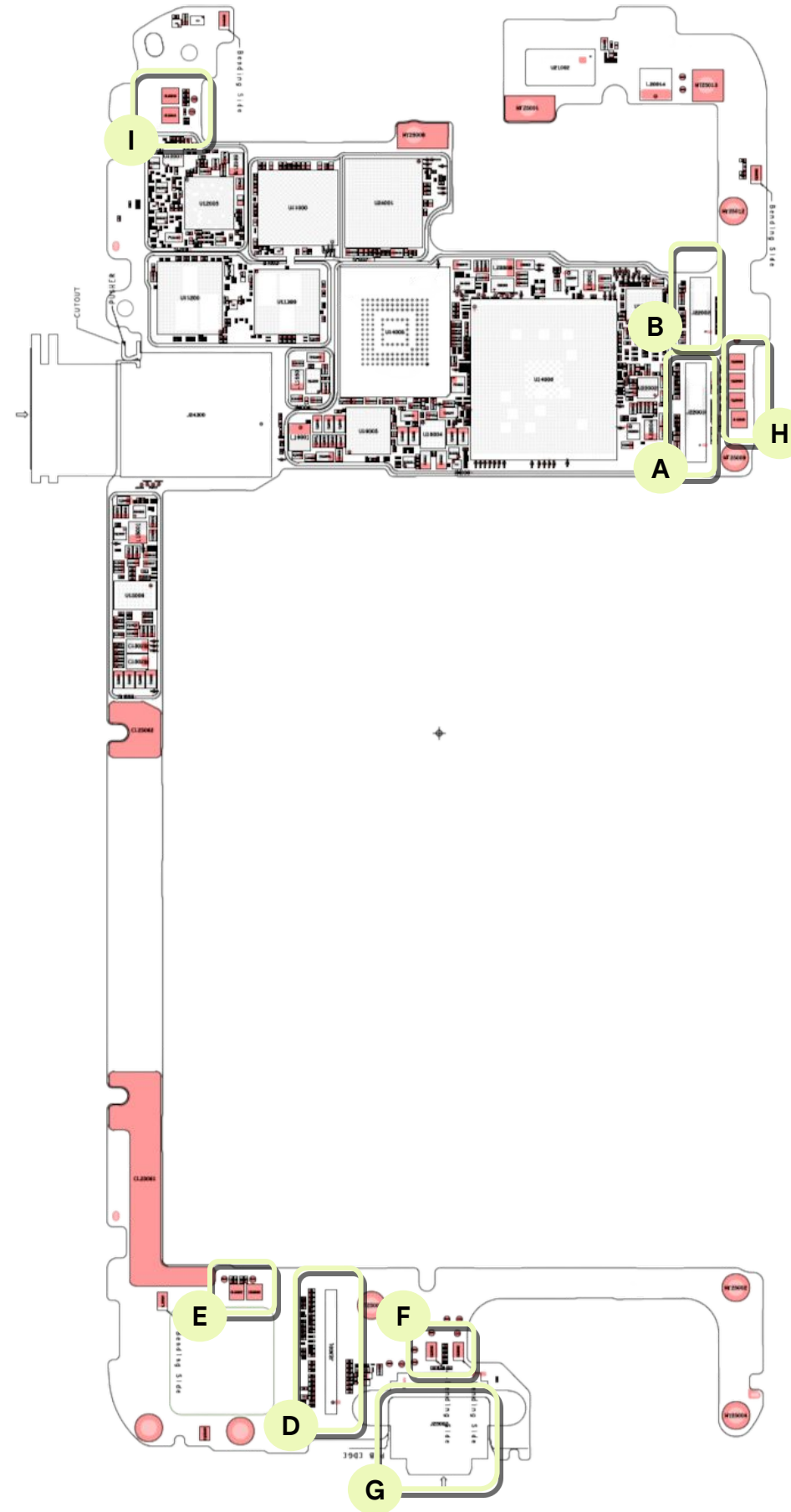
Mic 2

RF (BT, WiFi, GPS, NFC)

Connectors location

Location and description

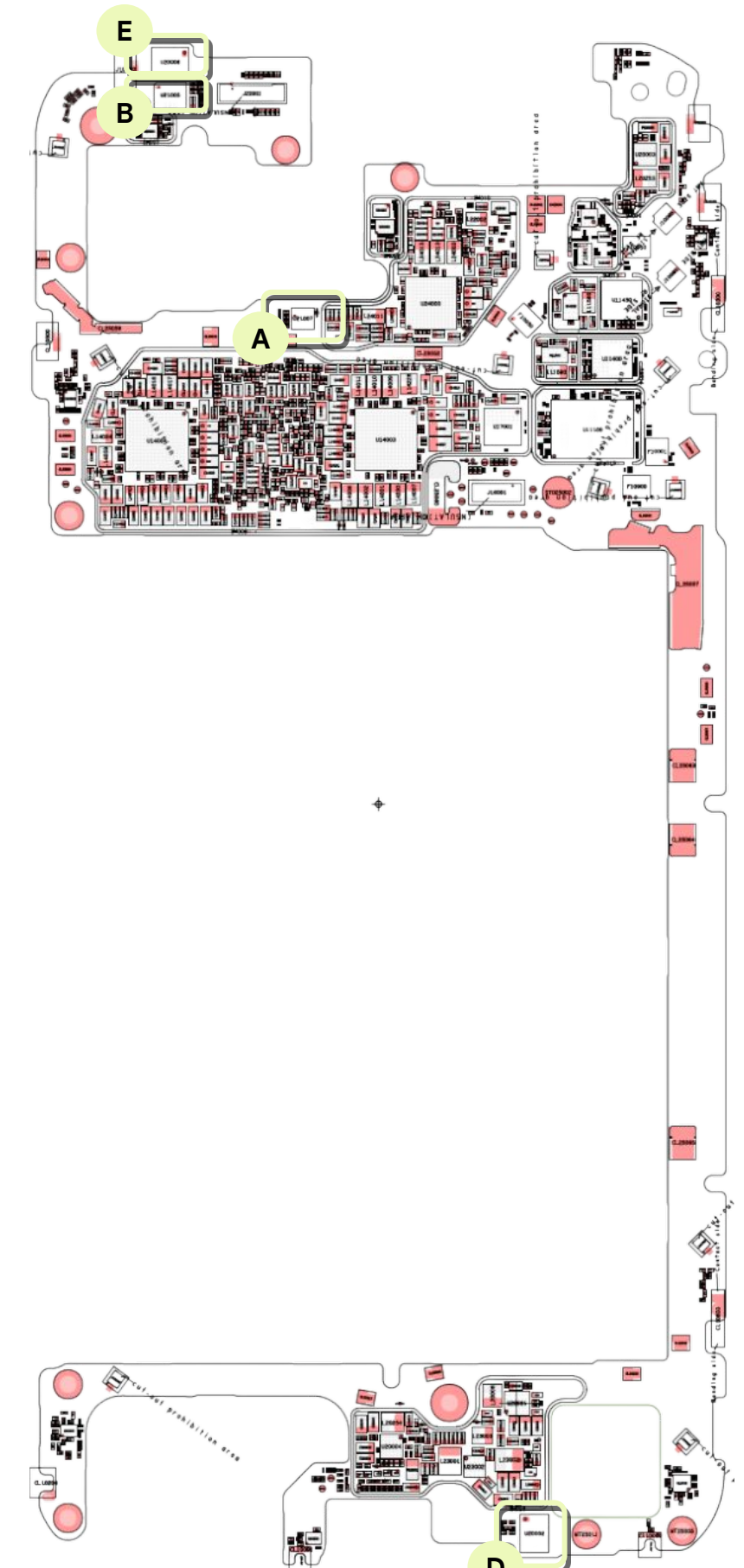
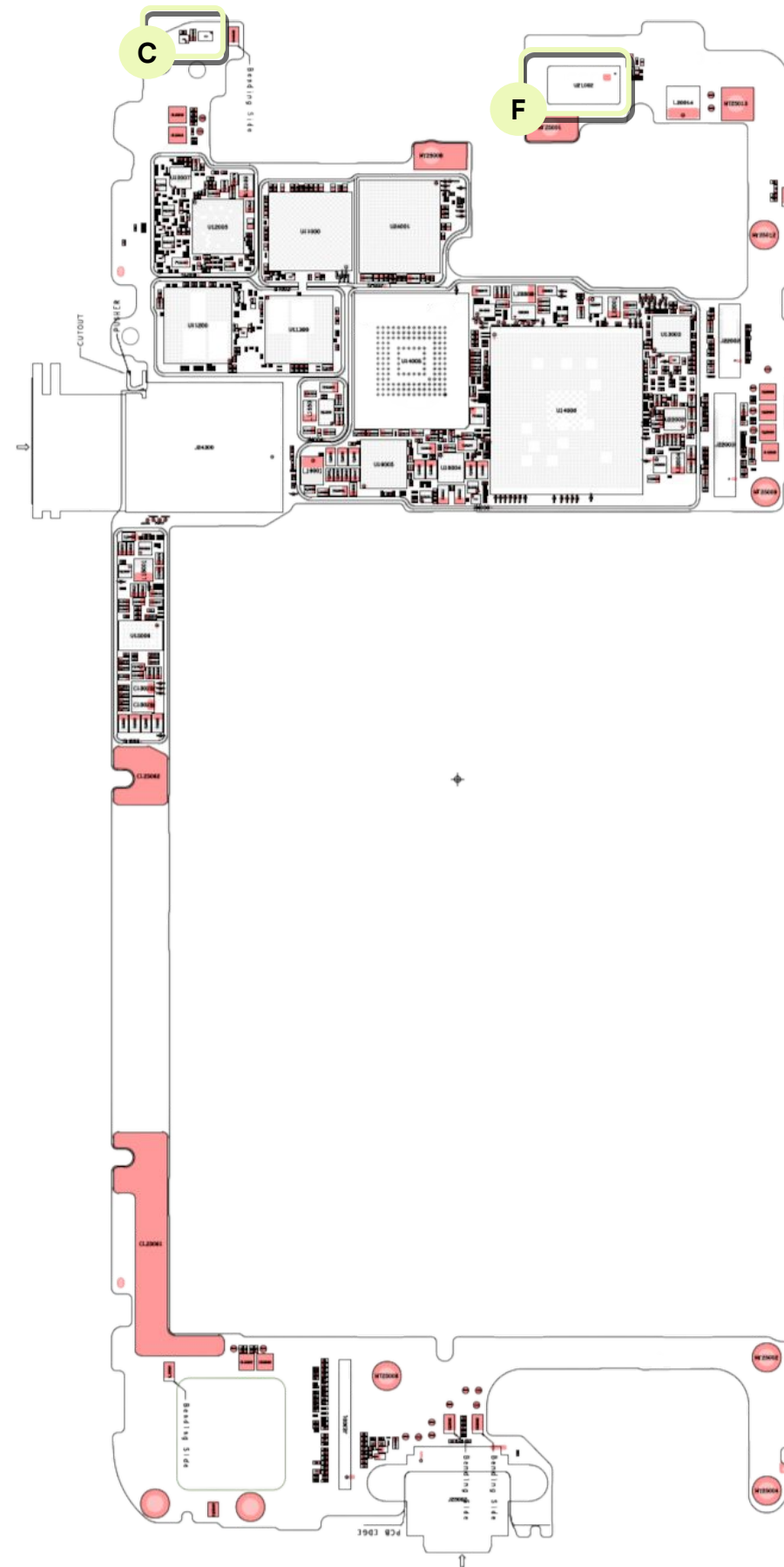
- A Wide rear camera (main) connector
- B UW rear camera connector
- C Front camera connector
- D LCM connector
- E Vibrator spring connector
- F Bottom speaker spring connector
- G USB connector
- H SLAM connector
- I Top speaker spring connector
- J Battery connector
- K NFC spring connector
- L WLC spring connector




Sensor and key feature location

Location and description


- | | |
|---|-----------------------------|
| A | Barometer |
| B | Gyroscope and accelerometer |
| C | Magnetometer |
| D | Mic 1 |
| E | Mic 2 |
| F | P or light sensor |




Power

Symptom	Potential root cause	Procedure	
 <p>T001: power doesn't on T002: powers off suddenly T004: wired charging failure</p>	Battery capacity problem	<ul style="list-style-type: none"> To see if the device is out of battery capacity, insert the USB cable and try to charge the device for at least 10 minutes, or a dummy battery, to see if the device is out of battery capacity. If the device doesn't charge, go to the next step. 	
	Connectivity problem	<ul style="list-style-type: none"> Disassemble the enclosure, then reconnect the battery, USB, and display module connector to confirm whether it could be charged or powered on. If it fails to charge or power on, go to the next step. 	
	Module problem	<ul style="list-style-type: none"> If all of the failure symptoms aren't present, use a good logic board and battery to cross-check with the ones that failed. 	<p>Disassembly</p> <ul style="list-style-type: none"> Logic board Battery

Wireless charge

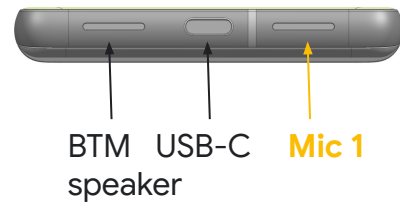
Symptom	Potential root cause	Procedure	
 <p>T003: wireless charging failure</p>	Connectivity issue	<ul style="list-style-type: none"> Check the contact condition between WLC and pin contact pads. If there's no mark on the pin contact pads, it shows poor connectivity. If marks are observed, clean the contact pad and test again. 	
		<ul style="list-style-type: none"> Check whether the connectivity between the WLC, NFC ANT pad, and logic board are normal. If they aren't fully buckled, reassemble and then re-test. 	Connectors location
	Component issue	<ul style="list-style-type: none"> Disassemble the main board and find whether the connectors' location, L and M pad has fallen. 	Disassembly Logic board

Mic 1



Symptom	Potential root cause	Procedure
 <p>T010: mic 1 no sound T011: mic 1 low sound T012: mic 1 distorted sound</p>	Mesh isn't clean	<ul style="list-style-type: none"> Take a microscope to check whether the mesh is damaged, blocked, shifted, there's any foreign substance, or the release liner is still attached. If a foreign substance is present, remove it and change with a new mic 1 bracket. If not, go to the next step.
	SW problem	<ul style="list-style-type: none"> Reflash to the latest version of the shipping ROM.
	Module problem	<ul style="list-style-type: none"> Use a good logic board to cross-check with the failed hardware.

Disassembly


- Logic board
- Mic 1 bracket




Mic 2

Symptom	Potential root cause	Procedure	
 <p>T013: mic 2 no sound T014: mic 2 low sound T015: mic 2 distorted sound</p>	Connectivity problem	<ul style="list-style-type: none"> • Check whether the connectivity between the SLAM FPC and logic board is normal. • If they aren't fully attached, reassemble and then re-test. If the test passes, the repair process is done, and if you fail, go to the next step. 	Note: SLAM FPC = mic 2+flashlight+key functions
	Module problem	<ul style="list-style-type: none"> • Use a good enclosure and logic board to cross-check with the original ones. 	Disassembly <ul style="list-style-type: none"> • Logic board • Enclosure

Top speaker

Symptom	Potential root cause	Procedure	
 <p>T019: top speaker no sound T020: top speaker low sound T021: top speaker distorted sound</p>	Mesh isn't clean	<ul style="list-style-type: none"> Inspect the top speaker mesh and use a soft ESD brush to remove any debris. Test audio. 	The top speaker mesh, located between the top display module or middle frame.
	Internal debris	<ul style="list-style-type: none"> If the sound quality is still poor, inspect the mesh and speaker with a microscope. Disassemble the device and inspect the speaker. Use an ionizing air fan to remove any debris and test audio. 	
	Connectivity issue	<ul style="list-style-type: none"> Check whether the connectivity between the top speaker pad and logic board is normal. If they aren't fully buckled, reassemble and then re-test. 	Connectors location
	Component issue	<ul style="list-style-type: none"> If the sound quality is still poor, use a good top speaker and logic board to cross-check with the original ones. Replace the defective component. 	Disassembly <ul style="list-style-type: none"> Logic board Top speaker

Bottom speaker

Symptom	Potential root cause	Procedure
 <p>T023: bottom speaker no sound T024: bottom speaker low sound T025: bottom speaker distorted sound</p>	Connectivity problem	<ul style="list-style-type: none"> • Check whether the bottom speaker assembly shifts. Alternatively, you could disassemble the bottom speaker and check the membrane for damage or debris. • If there's damage or debris, clean or change to a new bottom speaker and logic board. If not, go to the next step.
	Component problem	<ul style="list-style-type: none"> • If all the failure symptoms aren't present, use a good bottom speaker and logic board to cross-check with the hardware that failed.

Disassembly

- Logic board
- Bottom speaker

Vibrator

Symptom



T026: vibrator failure

Potential root cause

Module problem


Procedure

- If all the failure symptoms aren't present, use a good logic board and vibrator to cross-check with the hardware that failed.


Disassembly

- Logic board
- Vibrator


Display

Symptom	Potential root cause	Procedure	
 <p>T027: display blank</p> <p>T028: display dead pixel, dark spots, or foreign material</p> <p>T029: display bright pixel, bright or colored spots</p> <p>T030: display vertical or horizontal lines</p> <p>T031: display black, white, or colored screen</p>	Damage	<ul style="list-style-type: none"> Inspect the display for damage and replace if necessary. 	
<p>T032: display flickering or abnormal</p> <p>T033: display image quality</p> <p>T034: display color mura</p> <p>T035: display light leakage</p> <p>T036: display backlight issue</p>	Connectivity issue	<ul style="list-style-type: none"> Check if the connectivity between the display connector and logic board is normal. If they aren't fully attached, reassemble and then re-test. 	Connectors location
<p>T037: display shadow</p> <p>T038: display permanent burn</p> <p>T039: display temporary burn</p> <p>T040: display single crack</p> <p>T041: display multiple cracks</p> <p>T042: display to enclosure gap</p> <p>T043: display cosmetic defects</p>	Dead pixels Distorted graphics Flickering Color issues	<ul style="list-style-type: none"> Remove the display module, fit a replacement part without the adhesive, and test. If the issue is resolved, apply the adhesive and fit a new display module. 	<p>Disassembly</p> <ul style="list-style-type: none"> Display
	Component issue	<ul style="list-style-type: none"> Use a good display and logic board to cross-check with the original ones. Replace the defective component. 	<p>Disassembly</p> <ul style="list-style-type: none"> Logic board Display


Touch panel

Symptom	Potential root cause	Procedure	
 <p>T044: multi-touch poor response T045: multi-touch no response T046: multi-touch erratic response</p>	SW problem	<ul style="list-style-type: none"> • Make sure that the SW is updated to the latest version. • Ensure that the touch calibration process instructions are completely followed. 	
	Connectivity problem	<ul style="list-style-type: none"> • Check the function by triage test. • If it fails, disassemble the device and check the assembly condition of the display BTB connector. If the connectivity is poor, reassemble and re-test. 	Connectors location
	Module problem	<ul style="list-style-type: none"> • If all of the failure symptoms aren't present, use a good logic board and display module to cross-check with the ones that failed. 	Disassembly <ul style="list-style-type: none"> • Logic board • Display


RF (BT, WiFi, GPS, NFC)

Symptom	Potential root cause	Procedure
 <p>T047: RF failure T048: Wi-Fi connectivity issues T049: bluetooth connectivity T050: GPS failure T051: NFC connectivity issues</p>	<p>Connectivity problem</p> <hr/> <p>Module problem</p>	<ul style="list-style-type: none"> • Check if the screws are loose or the springs are damaged or disconnected. • If not, go to the next step. <hr/> <ul style="list-style-type: none"> • Use a good logic board and enclosure to cross-check with the one that failed. <p>Disassembly</p> <ul style="list-style-type: none"> • Logic board • Enclosure


Battery

Symptom	Potential root cause	Procedure	
 <p>T053: battery damage T054: battery draining fast T055: device overheats</p>	Connectivity issue	<ul style="list-style-type: none"> • Check if the connectivity between the battery connector and logic board is normal. • If they aren't fully attached, reassemble and then re-test. 	Connectors location
	Component issue	<ul style="list-style-type: none"> • Use a good battery and logic board to cross-check with the original ones. • Replace the defective component. 	Disassembly <ul style="list-style-type: none"> • Logic board • Battery


Sensor

Symptom	Potential root cause	Procedure	
 <p>T059: proximity sensor failure T060: ambient light sensor failure T061: accelerometer sensor failure T062: gyroscope sensor failure</p>	SW problem	<ul style="list-style-type: none"> Make sure that the SW is updated to the latest version. 	
	Assembly issue	<ul style="list-style-type: none"> Check the P-sensor rubber to ensure that it's in the correct position. 	Assembly P-sensor rubber status
	Connectivity problem	<ul style="list-style-type: none"> Check the function by triage test. Make sure that there's no foreign substance on the P-sensor area. 	
	Module problem	<ul style="list-style-type: none"> Disassemble and check that the appearance of the proximity sensor isn't abnormal. Use a good P-sensor rubber and logic board to cross-check with the corresponding failed ones. Replace the defective components. 	Disassembly <ul style="list-style-type: none"> Logic board Display (P-sensor rubber)


UDFPS

Symptom	Potential root cause	Procedure	
 <p>T064: fingerprint sensor failure</p>	Damage	<ul style="list-style-type: none"> Inspect the display for damage and replace if necessary. 	
	SW problem	<ul style="list-style-type: none"> Reinstall the UDFPS calibration software. 	
	Connectivity issue	<ul style="list-style-type: none"> Check if the connectivity between the fingerprint connector and logic board is normal. If they aren't fully buckled, reassemble and then re-test. 	Connectors location
	Component issue	<ul style="list-style-type: none"> Use a good fingerprint module and logic board to cross-check with the original ones. Replace the defective component. 	Disassembly <ul style="list-style-type: none"> Logic board Display

Camera

Symptom	Potential root cause	Procedure	
 <p>T070: camera crashes</p> <p>T071: camera no preview</p> <p>T072: camera AR failure</p> <p>T073: camera rear photo quality</p> <p>T074: camera rear video quality</p> <p>T075: camera front photo quality</p> <p>T076: camera front video quality</p> <p>T077: camera flash not working</p> <p>T078: couldn't switch between cameras</p> <p>T079: camera damage</p>	Cosmetic problem	<ul style="list-style-type: none"> Inspect the camera lens area for damage. Check the function by triage test. Disassemble the device to check whether the camera connector is seated properly. Power on the unit and check whether the camera fails again. 	
	Connectivity problem	<ul style="list-style-type: none"> Check the camera BTB and logic board side to identify whether the assembly is deformed or there're flex cracks. Reboot the device again to check whether symptoms of the failure still exist. 	Connectors location
	Module problem	<ul style="list-style-type: none"> If symptoms of failure still exist, cross-check the logic board itself or camera module to determine whether the symptom of failure is caused by the camera module or logic board. 	Disassembly <ul style="list-style-type: none"> Logic board Front camera Rear camera

USB

Symptom	Potential root cause	Procedure	
 T085: USB-C failure	Connectivity issue	<ul style="list-style-type: none"> Inspect the USB port to see if there's any dust inside. Check whether the device could detect the USB adaptor. Reconnect the battery and then boot up without charging with the USB power cable. 	Connectors location
	Component issue	<ul style="list-style-type: none"> Use a good logic board to cross-check with the original one. Replace the logic board if needed. 	Disassembly Logic board



Pixel 10a repair manual

Testing

Software tools

Description

Update or reinstall the software on Pixel devices.

Documentation

[Google Pixel - Update and Software Repair](#)