



Pixel 9 Pro XL

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.

Opening or repairing your device can present electric shock, device damage, fire, 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 in order to create helpful and sustainable products. Product longevity is really important to us and repairability is part of that. Repair enables 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 skills and training necessary to safely complete repairs.



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) of prerequisite steps, tools, fixtures, and parts required to complete the repair.



Assembly

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



Troubleshooting and testing

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



Glossary

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

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Repair flows

Disassembly order	Assembly order
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Disassembly

Display	Front camera
BG sub	Top speaker
mmWave module	Battery
Jumpflex	Chin board
ANT4 board	Bottom speaker
Logic board	Vibrator
Rear camera	Enclosure

Assembly

Enclosure	Rear camera
Vibrator	Logic board
Bottom speaker	ANT4 board
Chin board	mmWave module
Display	Front camera
Battery	Jumpflex
Top speaker	BG sub

Troubleshooting

Sensor and key feature location	Vibrator
Connectors Location	Display
Power	NFC
Wireless Charge	Proximity sensor
Mic1	UDFPS
Mic2	Rear camera
Mic3	Front camera
Top Speaker	mmWave module
Bottom Speaker	

Useful link

Software tools

Revision history

Version	Date	Change description
V1.0	July, 2024	First release
V1.1	August, 2024	<ol style="list-style-type: none">1. Change display module picture. P24, P39, P1692. Revise the films need to remove. P1693. Add more detail about heating. P534. Add more detail about 3M AP111 applied. P155, P163, P175, P246, P2515. Change align battery picture. P1766. Modify the assembly method. P196, P2177. Optimize the assembly method. P226.8. Add more detail about BG sub film. P2529. Revise heating adhesive condition. P136, P154, P157, P24410. Revise clean residue area and note. P136, P21611. Fix pictures to solve the mirrored problem when download PowerPoint.12. Correct GPN from G806-11578-02 to G806-11578-00. P10813. Add more detail when marking opening pick. P5114. Revise use caution. P5415. Revise disassemble direction. P4516. Remove laser module statement. P717. Add assembly caution and picture. P23818. Changed the wording for better understanding. P1319. Revise mic1, mic2 and mic3 troubleshooting. P267, P268, P269



Pixel 9 Pro XL repair manual

Precautions

Important: Before you begin



Be careful if you engage in repair

Opening or repairing a device could present electric shock, device damage, fire, 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.



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 after removal as soon as possible.
- If a battery begins to vent, cover it in sand or use gloves and tongs to place the battery in a fire safe 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 of the battery according to local regulations.



Caution: Pixel 9 Pro XL 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 herein may result in hazardous radiation exposure.

Important: Before you begin



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.

Caution:

- We *don't* recommend that you perform repairs without the specified tools and fixtures.
- Improper use of tools and fixtures may 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

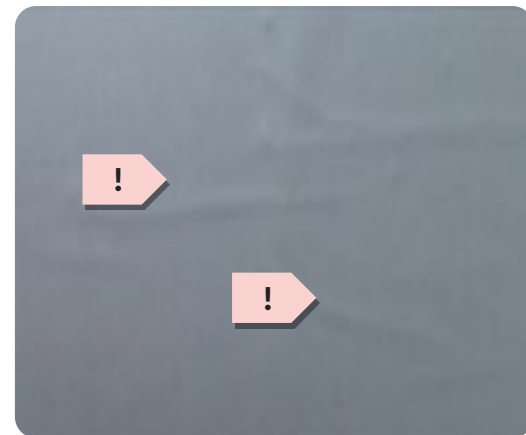
- Disconnect the device from all power sources before any disassembly.
- Make sure that the battery is fully discharged before any disassembly.
- If the phone battery shows signs of swelling or damage, or if the phone feels hot or emits a strong odor, *don't* attempt disassembly. Please reach out to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

Caution ⚠

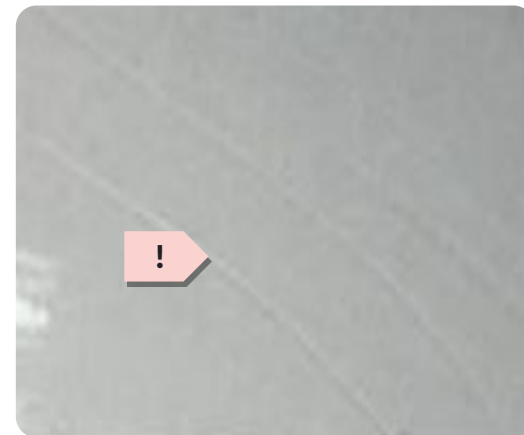
Unacceptable battery conditions



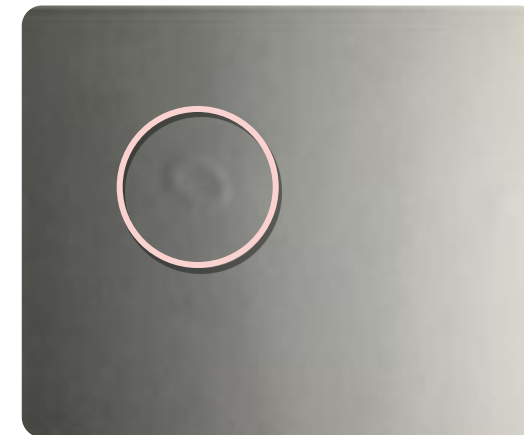
Pouch damage



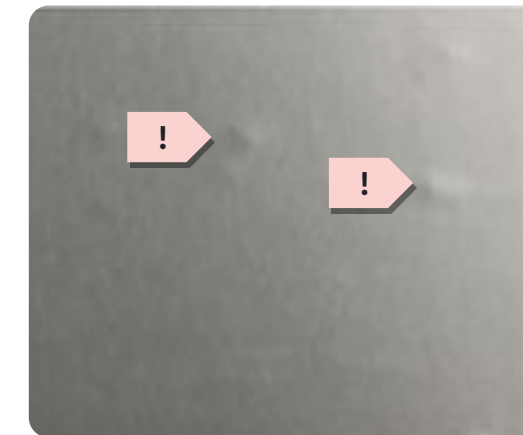
Line protrusion



Scratch



Contamination mark



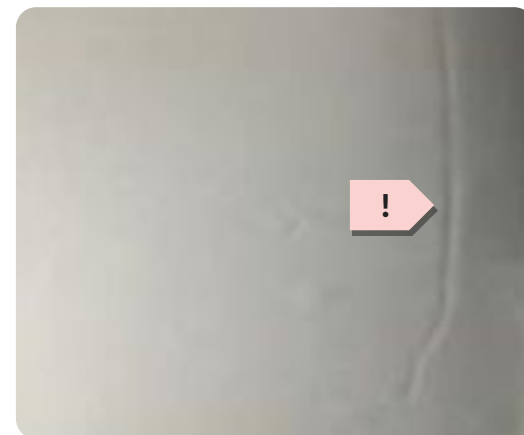
Dot protrusion



Dent



Bubbling



Imprinted line



Swelling or electrolyte leakage



Pixel 9 Pro XL repair manual

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[Screw map](#)

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[Screen calibration](#)

[Replacement parts](#)

[ESD protection](#)

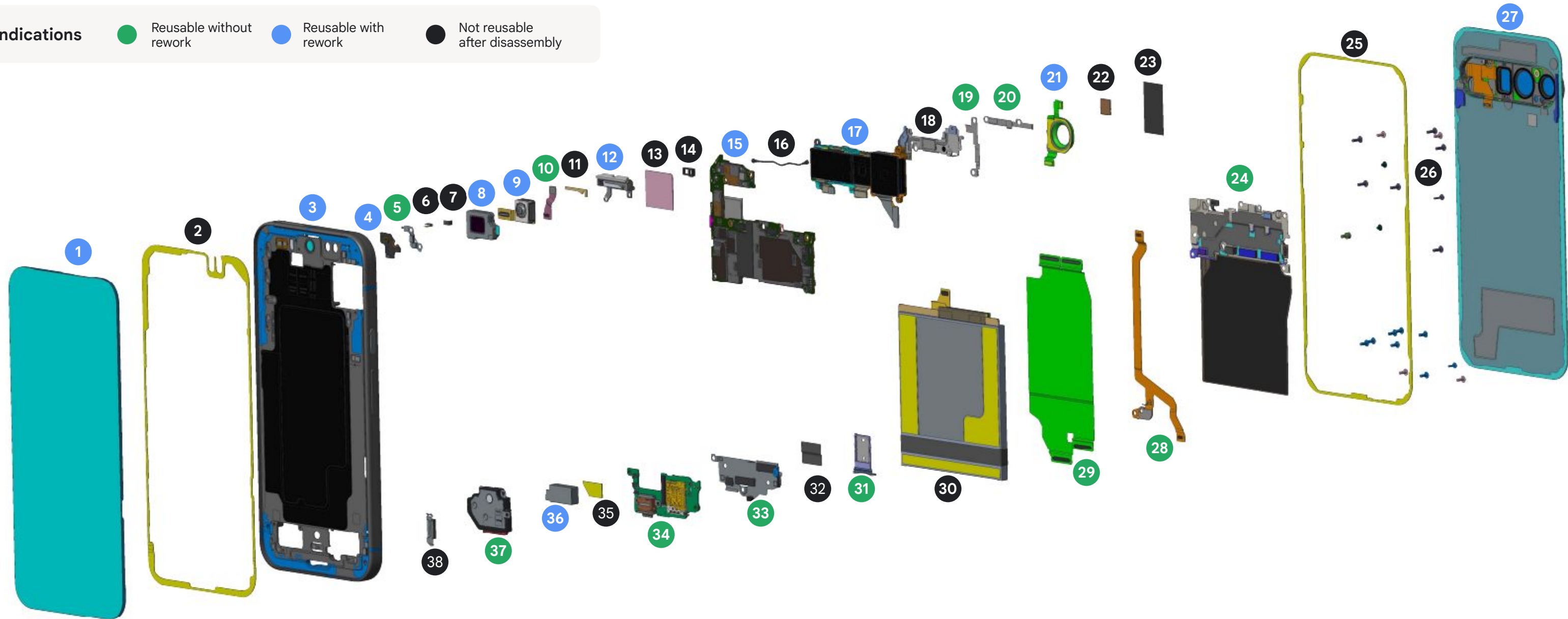
[Glossary](#)

[Liquid damage indicators](#)

Pixel 9 Pro XL: Expanded view

Reuse indications

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

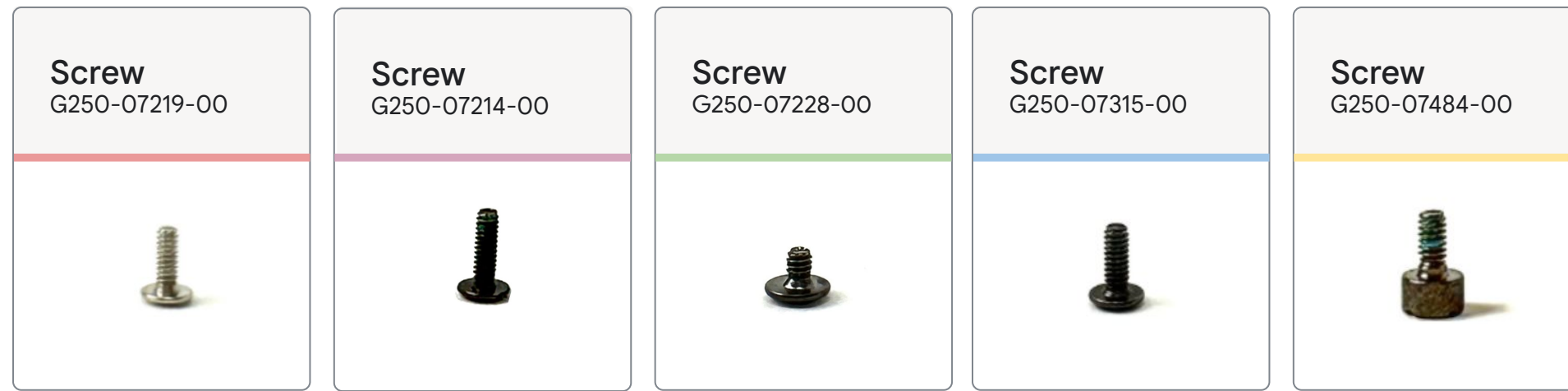


Pixel 9 Pro XL part ID

1	● Display module	8	● Top speaker	15	● Logic board	22	● Front camera FOF	29	● DJ flex	36	● Vibrator
2	● Display adhesive	9	● Front camera	16	● Cable	23	● NFC mylar	30	● Battery	37	● Bottom speaker
3	● Enclosure	10	● mmWave flex	17	● Rear camera	24	● NFC/WLC cowling	31	● SIM tray	38	● Display cowling
4	● Board	11	● mmWave TIM	18	● FCAM cowling	25	● BG adhesive	32	● DJ flex tape		
5	● Cowling	12	● mmWave module	19	● WLC cowling	26	● Screw	33	● CLB cowling		
6	● FOF	13	● SOC TIM	20	● UWB coving	27	● BG sub	34	● Chin board		
7	● Top speaker FOF	14	● P-sensor foam	21	● LDAF flex	28	● RJ flex	35	● Vibrator pad		

Screw map

These are the screws used in the Pixel 9 Pro XL:



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, always replace with a new screw

Each screw is critical to the safe continued operation of the phone. As the thread locking adhesive can't be reactivated, always replace it with a new screw after removal.



Pixel touch screen calibration process*

**[*Required for all Pixel 1 - Pixel 8 Pro devices, which includes Pixel Fold]
Pixel 9, Pixel 9 Pro, and Pixel 9 Pro XL don't require UDFPS calibration**

Complete the following
before you boot up the device:

- Nothing should touch the display. This includes protective films, cases, fingers, tape, labels, scratch covers, adhesives, and debris.
- Devices should be on a flat surface. *Don't* hold it in your hands.

After the above conditions are met, the device should be powered on by pressing the power button. *Don't* touch the device until it's fully booted into the user operating system.



Display touch calibration

After any repair that requires you to open the phone, complete the display touch calibration during first boot.



Touch function

If this process isn't followed, the touch function of the screen may not work as intended.

ESD protection

Electro Static Discharge (ESD) can damage components so it's important to work in an ESD-safe environment during repair.

Follow these four steps to keep ESD-safe:



Stay grounded

Repairs should be carried out on an ESD mat with the technician wearing a grounded ESD strap.



Avoid static buildup

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



Did you know?

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



Protective bags

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



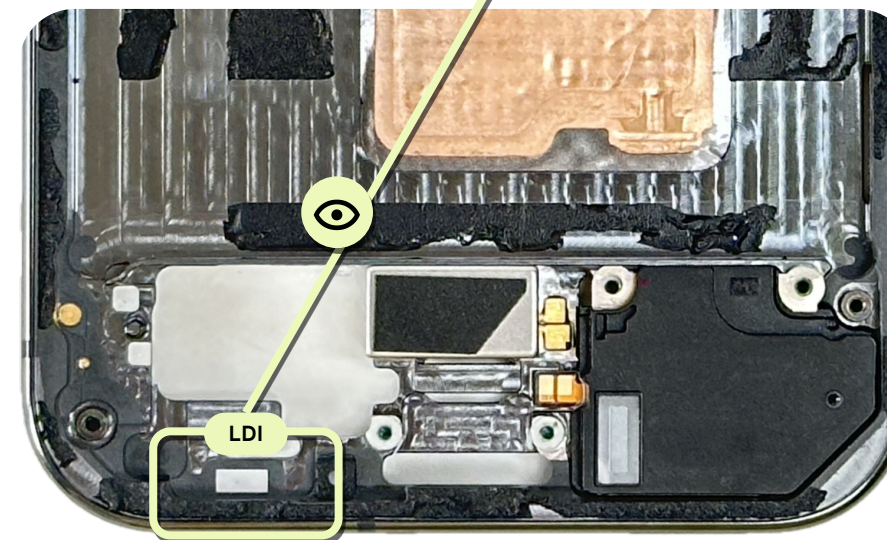
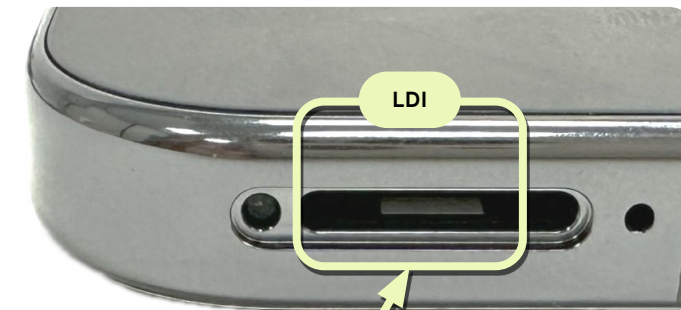
Avoid touching pins

Users should avoid touching pins with ESD-safe tools to handle components.

Liquid damage indicators

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

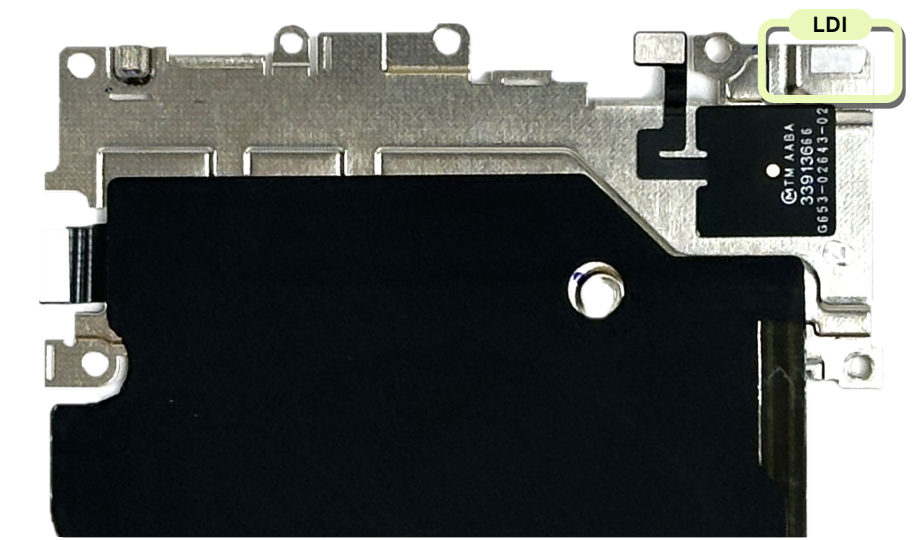
- Exposure to liquids may lead to device malfunction, such as overheating or short circuits.
- There are three LDIs on this device.
- If either indicator has turned red, the device is exposed to liquid.



In the SIM card tray slot (on the enclosure) visible without disassembling the device.



On the enclosure.



On NFC/WLC cowling.

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 phone, press and hold the power and volume up buttons for a few seconds. Then, tap **Power off** on screen.*
 - *For further information, see this [Google help page \(link\)](#).*

Tip: Before you turn on the phone, charge it. Learn how to charge.



Turn the screen off and back on

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

Tip: On some Pixel phones, you can 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)

1. On most phones, press phone's power button for about 30 seconds, or until the phone restarts.
2. 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 that some tools and fixtures require maintenance and calibration before you perform repairs.



Caution:

- Don't perform repairs without Google-specified tools and fixtures.
- Improper use of tools and fixtures may 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.

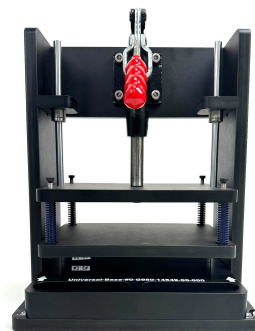
Tools and fixtures

Google-approved fixtures: Pixel 9 Pro XL

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

Universal press fixture

G940-00733-00



Universal disassembly fixture V3-base

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 12 mm

G940-00833-01



Universal holder limiting block

G940-00835-00



Universal supporting rubber

G940-00804-00



Pixel 9 Pro XL BG press rubber

G940-00801-00



Pixel 9 Pro XL CG press rubber

G940-00802-00



Pixel 9 Pro XL battery press rubber

G940-00800-00



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



Opening pick

Plastic



Large suction cup

Approximately 5 cm diameter



Screwdriver

Hex shank torx plus bit 3



Adjustable torque screwdriver

Hex shank torx plus bit 3



SIM card ejection pin



Heat plate



Absorption-bulb



Small suction cup

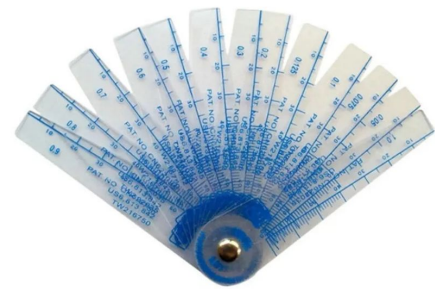


[Tools and fixtures](#)

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.

Feeler gauge



Screwdriver

1/4 inch, tip size 2.5 mm



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 equipment

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





Replacement parts

Important notice about replacement parts

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



Caution:

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

Replacement parts

Reuse indications

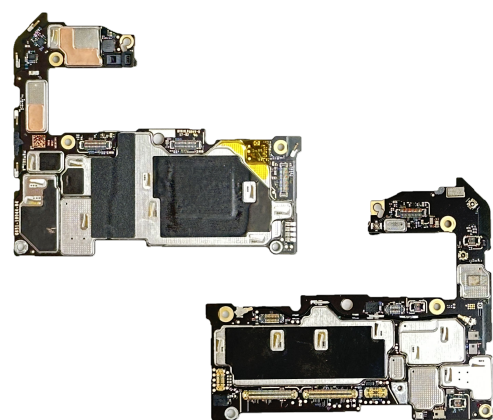
● Reusable without
reclaim

● Reusable with
reclaim

● Not reusable
after disassembly

Logic board

Multiple part numbers



Display module

G949-01011-00



BG sub

Multiple part numbers



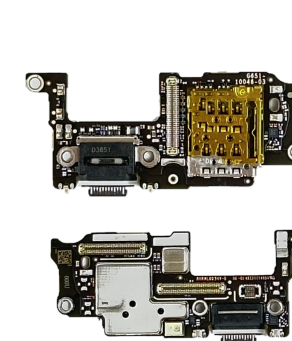
Enclosure

Multiple part numbers



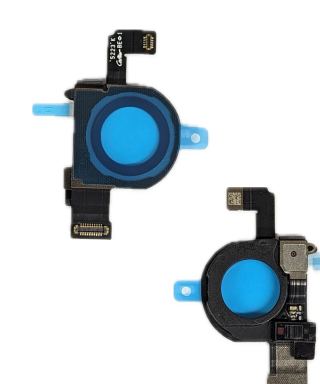
Chin board

G949-01028-00



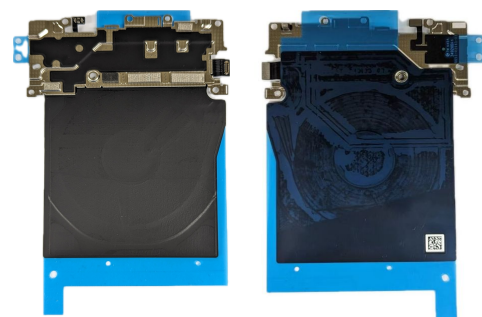
LDAF flex

G949-01029-00



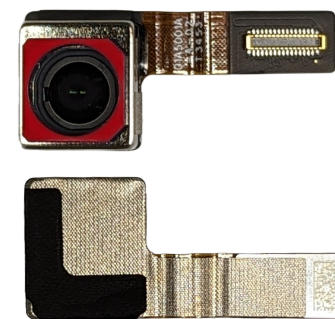
NFC/WLC cowling

G949-01030-00



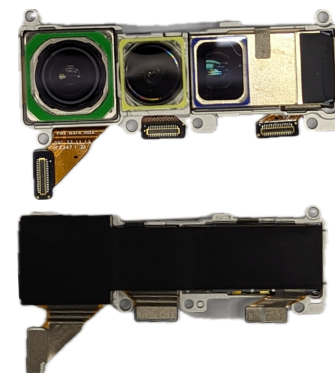
Front camera

G949-01031-00



Rear camera

G949-01032-00



Battery

G949-01033-00



ANT4 board

G949-01034-00



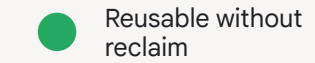
DJ flex

G949-01035-00



Replacement parts

Reuse indications



Reusable without
reclaim

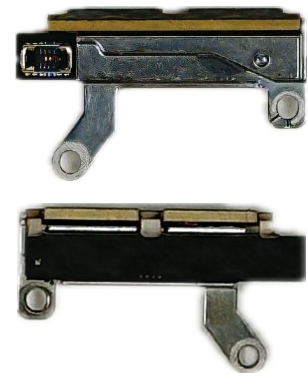


Reusable with
reclaim



Not reusable
after disassembly

mmWave module
G949-01036-00



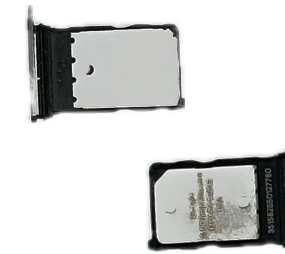
Display adhesive
G806-09665-92



BG adhesive
G806-10576-90



SIM tray
Multiple part numbers



Cable
G821-00924-00



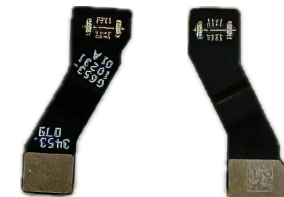
Top speaker
G863-00553-00



Bottom speaker
G863-00559-02



mmWave flex
G652-10231-01



RJ flex
G652-10239-04



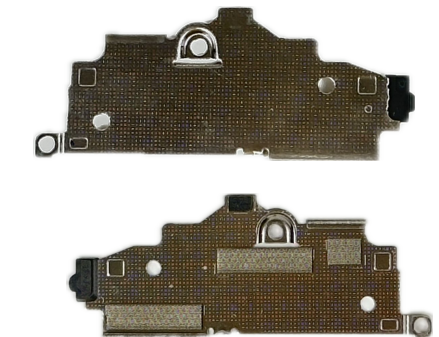
**FCAM cowling
mmWave**
G730-08354-03



**FCAM cowling
sub6**
G730-08354-83



CLB cowling
G730-08533-11

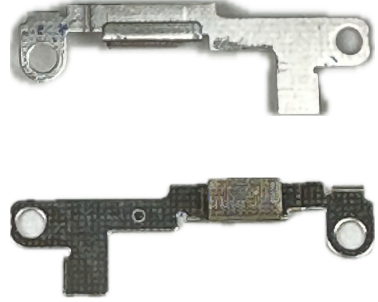


Replacement parts

Reuse indications


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

WLC cowling
G730-08485-00




Two metal brackets for the WLC cowling, one showing the top surface and the other showing the bottom surface with mounting holes.

Screw
G250-07219-00




A small silver-colored screw with a flat head.

Screw
G250-07214-00




A black screw with a hexagonal head.

Screw
G250-07228-00




A black screw with a hexagonal head and a small circular base.

Screw
G250-07315-00




A black screw with a hexagonal head.

Screw
G250-07484-00



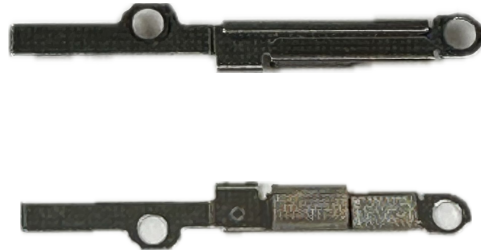
A screw with a hexagonal head and a cylindrical base, featuring a green coating on the threads.

Top speaker FoF
G806-11577-00




A small rectangular component with a blue protective frame and a gold-colored surface.

UWB cowling
G730-08486-00




Two metal brackets for the UWB cowling, one showing the top surface and the other showing the bottom surface with mounting holes.

Front camera FoF
G806-11428-00




A square component with a textured, silver-colored surface.

Display cowling
G730-08475-06



Two metal brackets for the display cowling, one showing the top surface and the other showing the bottom surface with mounting holes.

ANT4 cowling
G730-08339-23



Two metal brackets for the ANT4 cowling, one showing the top surface and the other showing the bottom surface with mounting holes.

SOC TIM
G806-10416-00




A rectangular component with a blue frame and a dark surface.

Replacement parts

Reuse indications

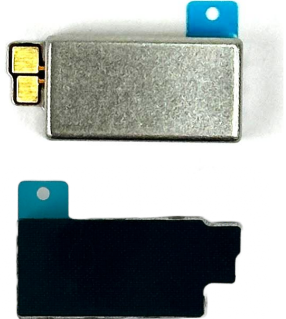
- Reusable without reclaim
- Reusable with reclaim
- Not reusable after disassembly

P-sensor foam
G806-10419-05



●

Vibrator
G710-05528-01




●

Vibrator pad
G806-12056-02



●

Sub6 heatsink
G850-00566-01



●

mmWave TIM
G806-10422-00



●

DJ flex tape
G806-11965-01



●

NFC mylar
G806-12764-00



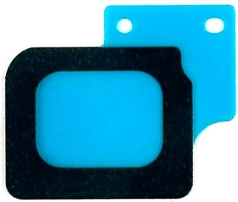
●

FoF
G806-11578-00




●

Top speaker adhesive
G806-11891-01



●

Mic3 mesh
G806-11492-01



●

FCAM adhesive
G806-11408-01



●


Vibrator adhesive
G806-13155-00





●

Replacement parts

Reuse indications

 Reusable without
reclaim

 Reusable with
reclaim

 Not reusable
after disassembly

LDAF adhesive
G806-13914-00



Mic2 mesh
G806-12738-01





Glossary

Glossary

Acronym or term	Definition
ESD	Electro Static Discharge The sudden flow of electricity through two electrically charged objects.
IPA	Isopropyl Alcohol (99.8%) Used for cleaning components and enclosures. Comes as pads or a solution.
FPC	Flexible Printed Circuit A type of low profile and flexible printed circuit.
OLED	Organic Light-Emitting Diode (OLED) A type of flat panel display with an OLED to show images.
mmWave	Millimeter Wave The radio waves used to build a 5G network, that provides fast and reliable mobile data.
Sub6	Sub-6GHz Refers to mid and low-frequency bands under 6GHz.
LDI	Liquid Damage Indicator An indicator that turns from white into another color, typically red, after contact with water. Also known as: Liquid damage indicator LDI

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</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>

Glossary

Acronym or term	Definition
Camera	<p>Camera modules, include the front camera and the rear cameras.</p> <p>Also known as: CAM FCAM RCAM</p>
Pressure sensitive adhesive	<p>The adhesive that's used to bond enclosure and display module, battery, 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>
TS	<p>Temperature Sensor</p>

Glossary

Acronym or term	Definition
ASP	Authorized Service Provider
FRP	Factory Reset Protection
FDR	Factory Data Reset
SUR	Same Unit Repair
RTV	Return To Vendor
WIC	Walk In Center
SBOM	Service Bill of Materials



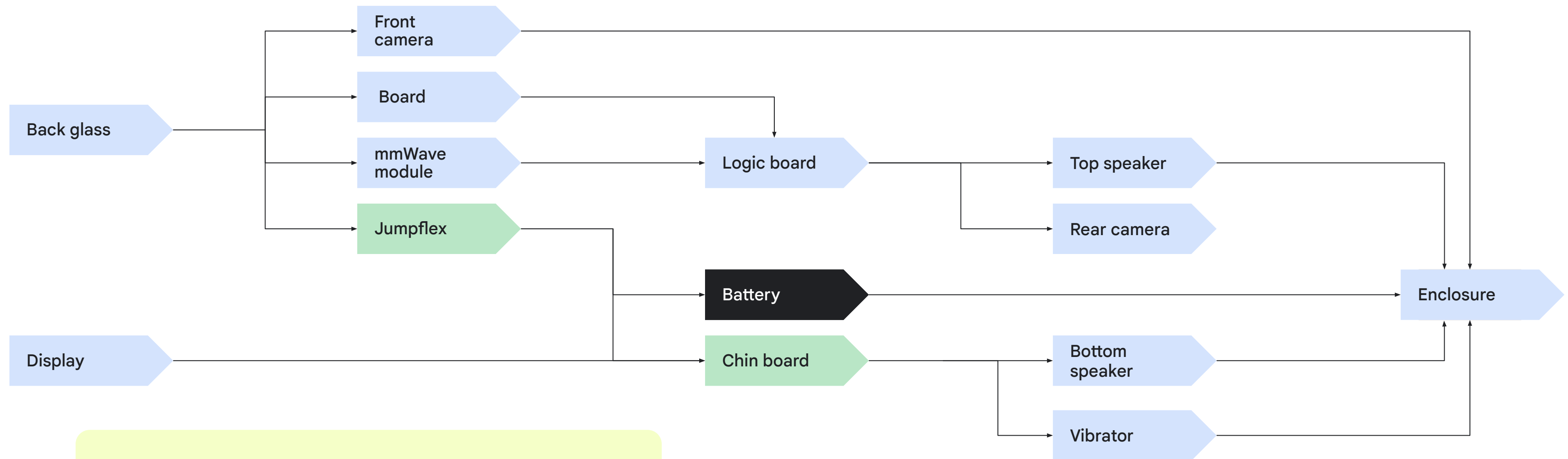
Pixel 9 Pro XL repair manual

Repair flows

Disassembly order

Assembly order

Pixel 9 Pro XL- disassembly flowchart



How to read this chart

To remove the battery:

Remove the back glass, jumpflex, then the battery.

To remove the logic board:

Remove the back glass, mmWave module, jumpflex, ANT4 board, then the logic board.

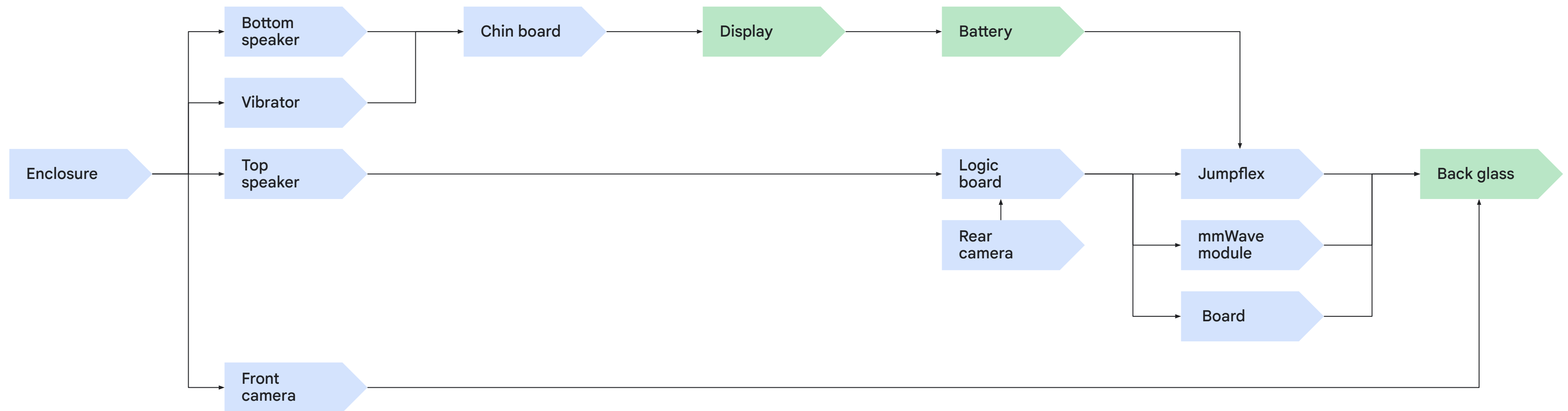
To remove the chin board:

Remove the display, back glass, jumpflex, then the chin board.

Pixel 9 Pro XL- assembly flowchart

● Assembled without fixture

● Assembled with fixture



How to read this chart

To reinstall the battery:

Install battery, jumpflex, then back glass.

To reinstall the logic board:

Install logic board, ANT4 board, mmWave module, jumpflex, then back glass.

To reinstall the chin board:

Install chin board, display, jumpflex, then back glass.



Pixel 9 Pro XL repair manual

Disassembly

Display

Logic board

Chin board

BG sub

Rear camera

Bottom speaker

mmWave module

Front camera

Vibrator

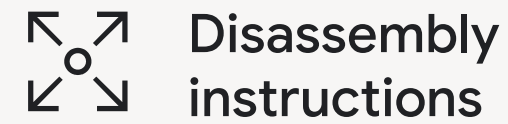
Jumpflex

Top speaker

Enclosure

ANT4 board

Battery



Display

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

Use caution

Use safety gloves to handle damaged back glass as splinters during removal could cause injury.

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

Heat plate

Universal disassembly fixture V3

Pixel universal base

Pixel universal holder

Pixel universal holder limiting block

Pixel universal press plate 12 mm

Pixel universal press fixture

Suction bulb

Small suction cup

Opening pick


ESD tweezers

ESD spudger

3M AP111 primer

Dust-free cotton swabs

IPA and cloth

 Required parts

Display

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

Reuse indications



Reusable without
reclaim



Reusable with
reclaim



Not reusable
after disassembly

Display module

G949-01011-00



Display cowling

G730-08475-06



Display adhesive

G806-09665-92



Soften the adhesive

Set the heat plate to **140°F (60°C)**, and place the phone face down on the heat plate for **10 minutes** to soften the adhesive.

⚠ Use caution

Heat plate is a hot surface.
Use caution as it could cause burns.

💡 Note

Just need to heat the **top side** of the device.



Mark the ESD spudger

- Use the **ESD spudger** to separate the **display** from the **enclosure**.
If inserted too deep, the spudger could damage your device.
- Measure 3.2 mm from the tip and mark the **ESD spudger** with a permanent mark. It should be distinguished, because the width of the surrounding adhesive is different.



Use caution

Follow the step to mark your ESD spudger and prevent damage.



Use the fixture

- Fix suction cup on the **rightmost** position as shown in Fig 1.
- Place the device on the holder of **universal disassembly fixture V3**, so that the phone visor touches the edge of the fixture as shown in Fig 2.



Note

Remove the display front protective film to allow the suction cup to attach to the display.

There's a groove which can help to avoid pressing the power button accidentally.

Fig 1



USB



Place power key inside the groove.



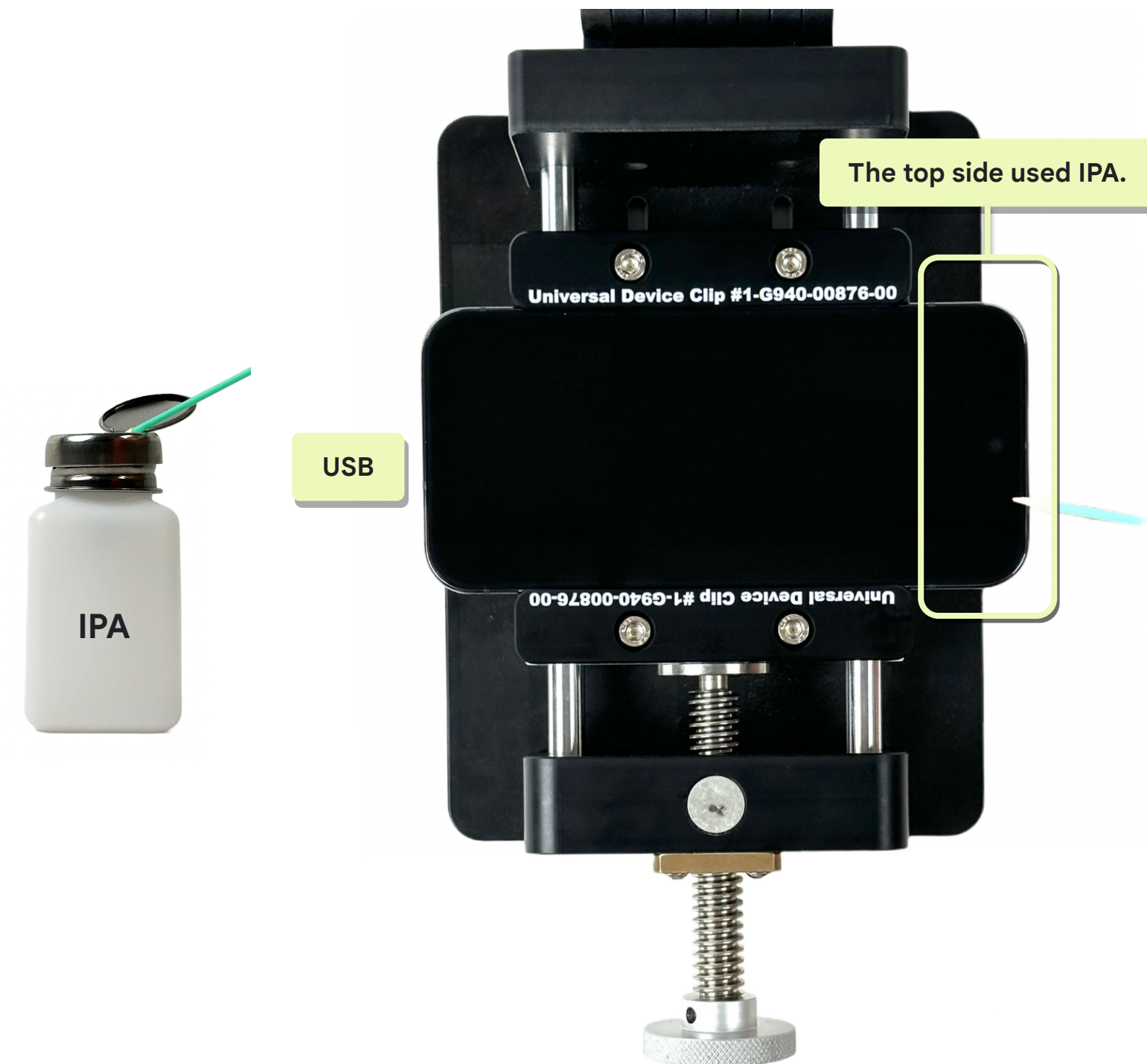
Fig 2



Visor touching the edge of the fixture.

Prepare for the disassembly

Before you close the lid, dampen proper amount **IPA** with a **Dust-free cotton swab** to the gap between the **display** and the **enclosure** on the **top side**.



Separate the display

- Close the lid and lift up the suction cup as shown in Fig 1.
- Slowly rotate the knob to separate the **display module** from the **enclosure**.
- When there's a gap on the **top side**, use the **ESD spudger** with a proper amount **IPA** to cut the **adhesive** off.
- Insert a release liner to prevent the adhesive from sticking back as shown in Fig 2.



Use caution

Use safety gloves to handle the damaged display as splinters during removal could cause injury.

Apply protective film to broken glass before removal.

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



Fig 1

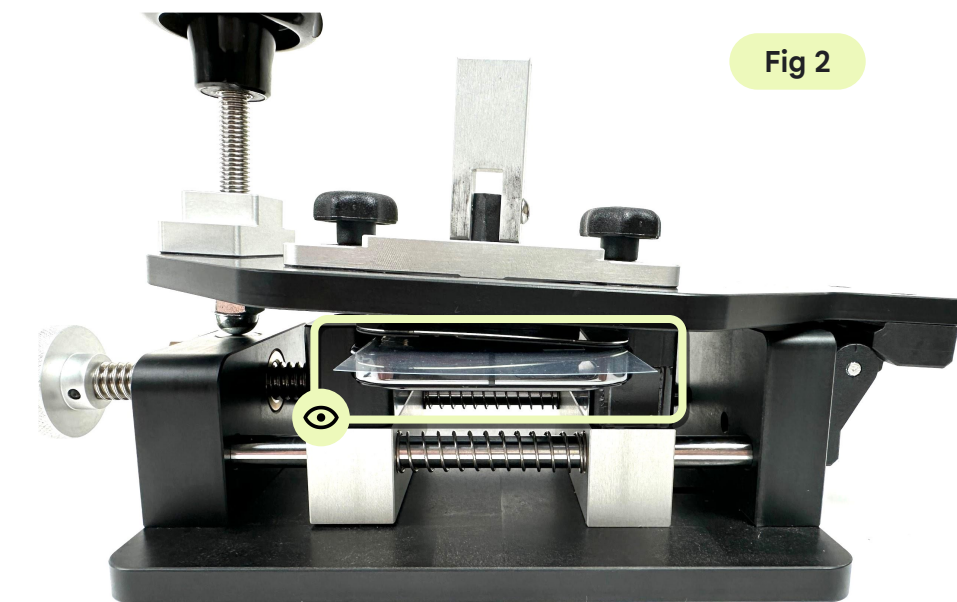


Fig 2

Separate the display adhesive

- Take the device out of the **universal disassembly fixture V3**.
- Manually slide in the sequence with a **proper amount of IPA**:
0 (top side) → 1 (right side) → 2 (left side) → 3 (bottom side) with the **ESD spudger**.
- Make sure that the **ESD spudger** is inserted no further than 3.2 mm.
- Make sure that **ESD spudger** is placed along with the **enclosure side** as shown in Fig 2.
- Pry at an angle ~45 degree to avoid insertion between **display** and **trim** as shown in Fig 3.



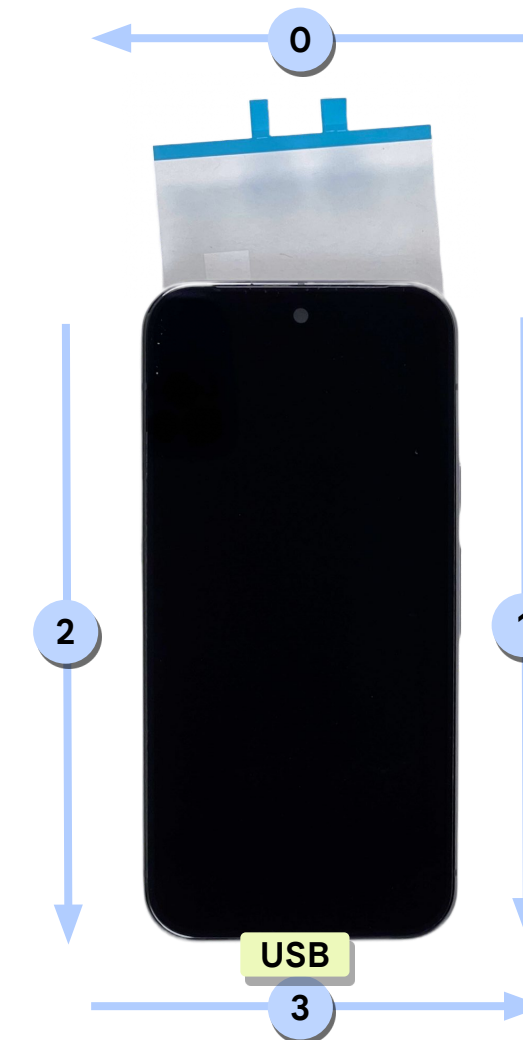
Use caution

Avoid to damage around display component and enclosure spring areas as shown in Fig 1.



Note

Don't remove the release liner to prevent the adhesive from sticking back.



Disassemble sequence:
0 (in the fixture) → 1 → 2 → 3

Fig 2



Apply in left and right side

Fig 3



Apply in bottom side

Prop the display

- Use the **suction bulb** to hold the **display**.
- Avoid touching the **copper foil**.



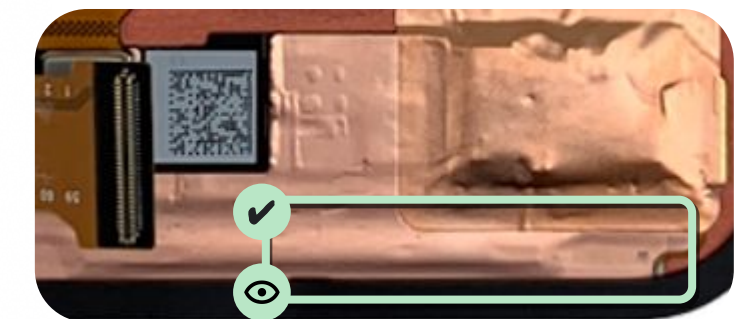
Note

Be careful not to stretch the **display flex** to prevent damage.

Also be careful not to damage the spring during the process.



Trim separate.



Remove the cowling

Remove the **display cowling** from the **groove** with the **ESD spudger**.

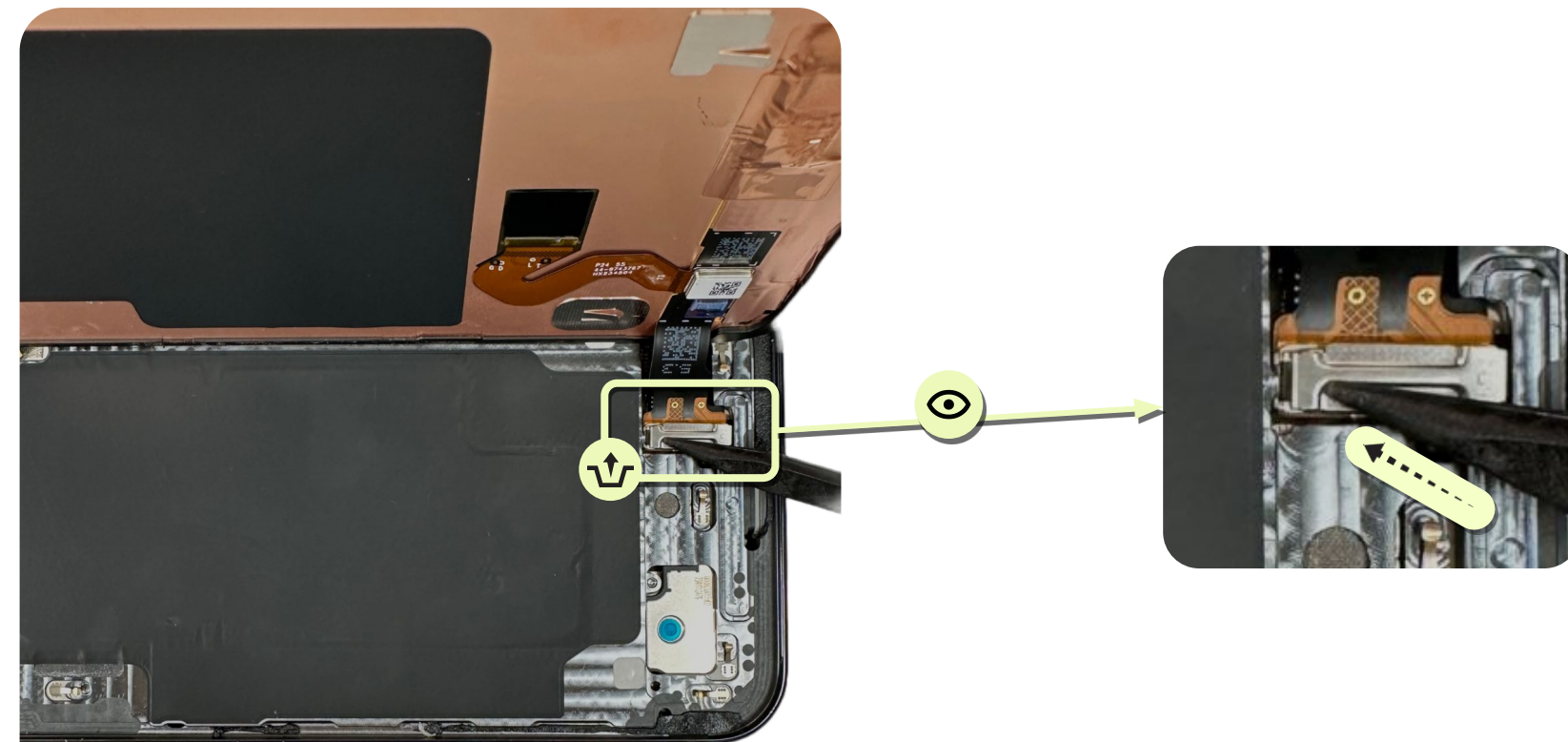
Part: G730-08475-06 (Display cowling)



Note

Don't reuse the part.

Be careful not to damage the **display flex** when you remove the **display cowling**.



Disconnect the display

- Detach the **display connector** with the **ESD spudger**.
- Remove the **display module**.


Part: G949-01011-00 (Display module)



Note

Use the **ESD spudger** to avoid damage to the components.



 Disassembly
instructions

BG sub

If you reuse the BG sub, ensure that any thermal paste or adhesive residue is completely removed.

 **Use caution**

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**


Universal disassembly fixture V3	Opening pick
Pixel universal base	ESD tweezers
Pixel universal holder	ESD spudger
Pixel universal holder limiting block	3M AP111 primer
Pixel 9 Pro XL CG press rubber	Dust-free cotton swabs
Pixel 9 Pro XL BG press rubber	IPA and cloth
Pixel universal press plate 12 mm	
Pixel universal press fixture	
Suction bulb	
Small suction cup	

 Required parts

Reuse indications


 Reusable without reclaim


 Reusable with reclaim


 Not reusable after disassembly

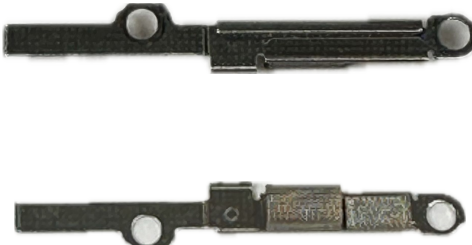
BG sub


Here's the list of parts for the BG sub disassembly.


BG sub 
Multiple part numbers




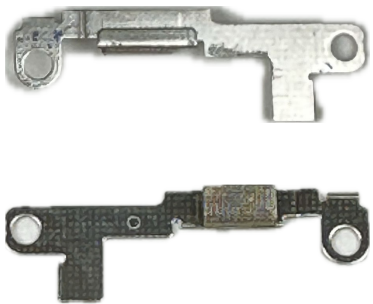
UWB cowling 
G730-08486-00





NFC mylar 
G806-12764-00





WLC cowling 
G730-08485-00



Screw 
G250-07214-00



Screw 
G250-07228-00



NFC/WLC cowling 
G949-01030-00



BG adhesive 
G806-10576-90



Mic2 mesh 
G806-12738-01



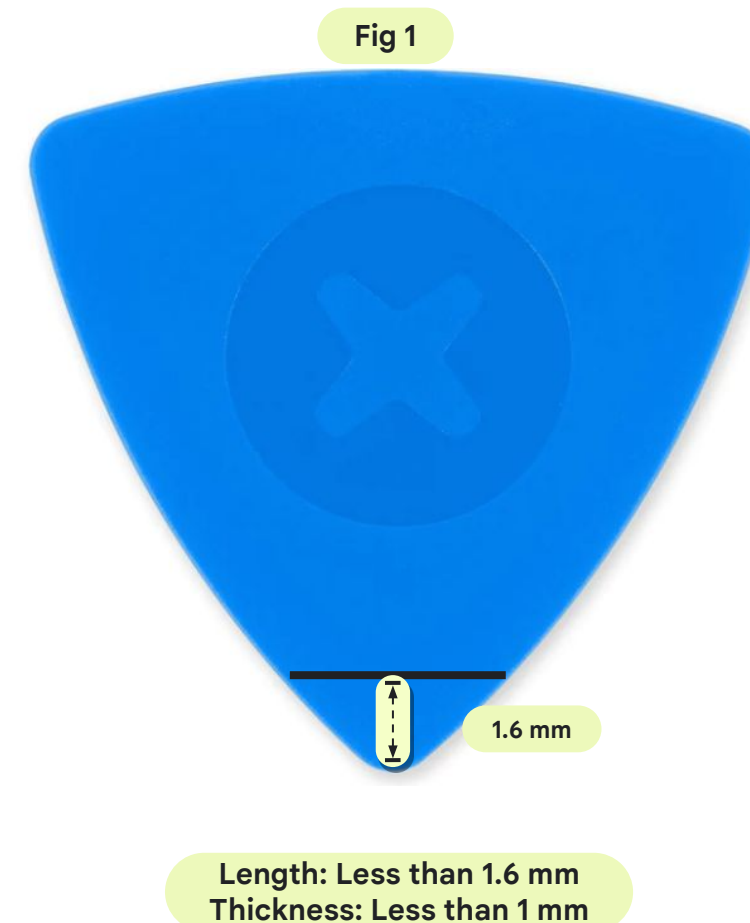
Mark your opening picks

- Measure 1.6 mm from the tip and mark the opening pick with a permanent mark as shown in Fig 1 when inset pick between A and B areas as shown in Fig 2.
- Other than A and B areas, opening pick can insert up to 5 mm.
- There are components around the edge, fail to do so could damage the device as shown in Fig 3.

⚠ Use Caution

Follow the step to mark your pick and prevent damage.

Thicker Opening pick may lead to Back Glass crack.



Apply the small suction cup

Place the **small suction cup** on the **USB side**.



Use caution

Be careful around power key area to avoid damage to the spring.



Separate the BG

- Hold the device with one hand and pull up the **small suction cup** with another hand strongly until a gap forms between the **BG** and the **enclosure**.
- Insert the **opening picks** into the gap.



Note

If you've trouble to create a gap, heat 60°C/10 minutes BG side on heat plate and try again.



Separate the BG adhesive

- Manually slide **clockwise** in the sequence:
1 (bottom side) → 2 (left side) → 3 (top side) → 4 (right side)
with an opening pick.
- Make sure that the **opening pick** is inserted no further than 1.6 mm (A and B areas).



Use caution

Be careful around the A/B areas to avoid damage structure.



Prop the BG

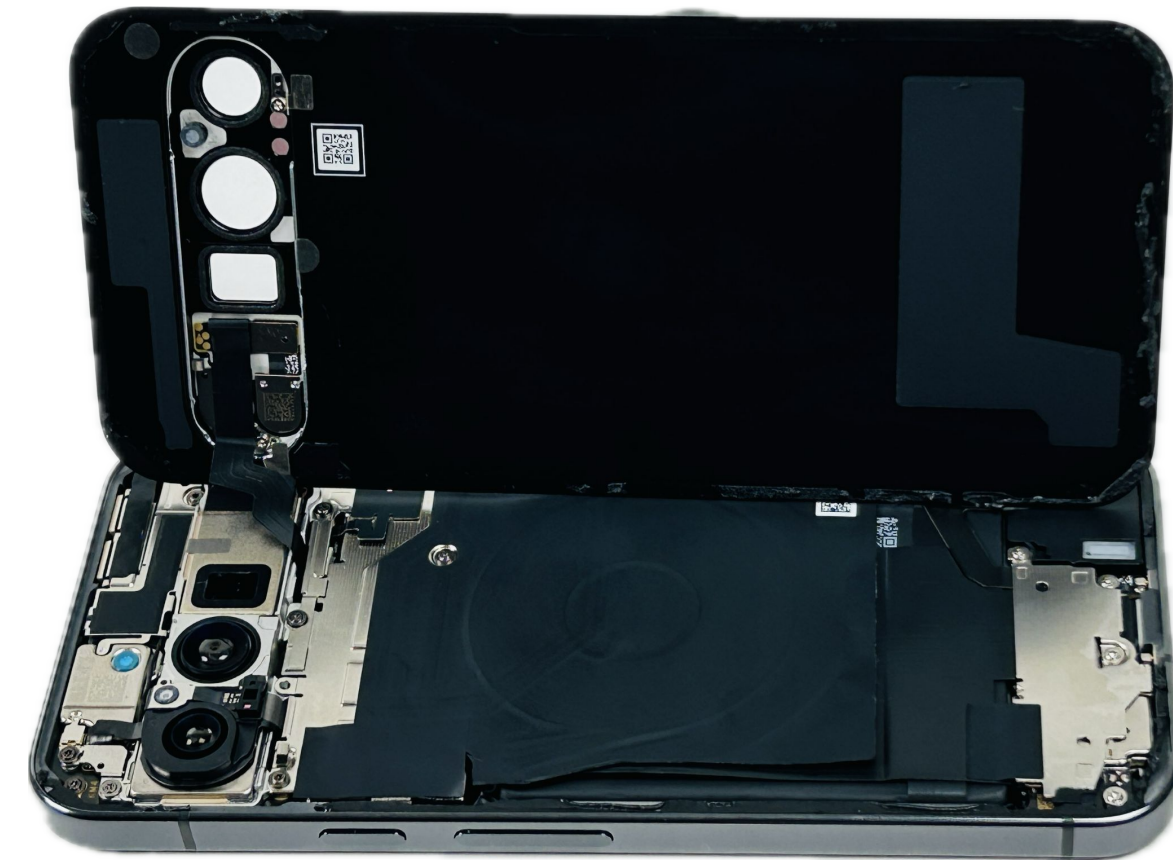
Use the **suction bulb** to hold the **BG**.



Note

Be careful not to stretch the **BG flex** to prevent damage.

Avoid scratching the **graphite sheet** on material.



Remove the screws

- Remove **two UWB cowl**ing screws with the **torx plus 3IP screwdriver**.

Part: G250-07214-00 (Screw)



Use caution

Be careful when you use the screwdriver.

Don't damage the adjacent battery.

Incorrect use of the screwdriver could cause injury to you or others or damage to the battery or the product.



Note

Don't reuse the parts.



Remove the UWB cowling

Remove the **UWB cowling** with **ESD tweezers**.

Part: G730-08486-00 (UWB cowling)



Remove the BG sub

- Detach the **BG sub connector** from the **logic board** with the **ESD spudger**.
- Remove the **BG sub**.

Part: Multiple part numbers (BG sub)



Note

Use the **ESD spudger** to avoid damage to the components.



Remove the NFC mylar

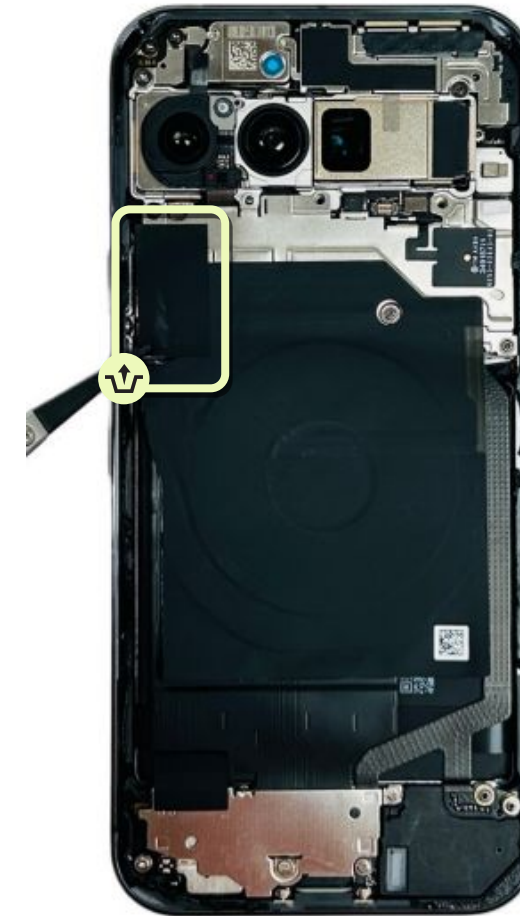
Remove the **NFC mylar** with **ESD tweezers** from **lower left corner**.

Part:G806-12764-00 (NFC mylar)



Note

Don't reuse the parts.



Remove the screws

Remove the **two WLC cowling screws** with the **torx plus 3IP screwdriver**.

Part: G250-07214-00 (Screw)



Use caution

Be careful when you use the screwdriver.
Don't damage the adjacent battery.

Incorrect use of the screwdriver could cause injury to you or others or damage to the battery or the product.



Note

Don't reuse the parts.



Remove the WLC cowling

Remove the **WLC cowling** with **ESD tweezers** from **left side**.

Part: G730-08485-00 (WLC cowling)



Remove the screws

Remove the **two NFC/WLC cowling screws** with the **torx plus 3IP screwdriver**.

Part: G250-07228-00 (Screw)



Use caution

Be careful when you use the screwdriver.
Don't damage the adjacent battery.

Incorrect use of the screwdriver could cause injury to you or others or damage to the battery or the product.



Note

Don't reuse the parts.



Disconnect the UWB/WLC

Detach the **UWB/WLC connector** from the **logic board** with the **ESD spudger**.



Note

Use the **ESD spudger** to avoid damage to the components.



Remove the NFC/WLC cowling

Remove the **NFC/WLC cowling** with **ESD tweezers**.

Part: G949-01030-00 (NFC/WLC cowling)



Finished! Need assembly instructions? →

Disconnect the battery

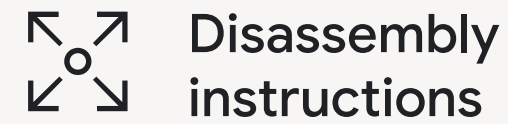
Detach the **battery connector** from the **logic board** with the **ESD spudger**.



Note

Use the **ESD spudger** to avoid damage to the components.





mmWave module

Millimeter waves (mmWave) are the radio waves used to build a 5G network, that provides fast and reliable mobile data with low latency for the latest devices.

Use caution

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

Prerequisites

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

- **BG sub**

Tools

Torx plus 3IP screwdriver
ESD spudger
ESD tweezers
IPA and cloth

 Required parts

mmWave module

Here's the list of parts for the mmWave module disassembly.

Reuse indications



Reusable without
reclaim



Reusable with
reclaim



Not reusable
after disassembly

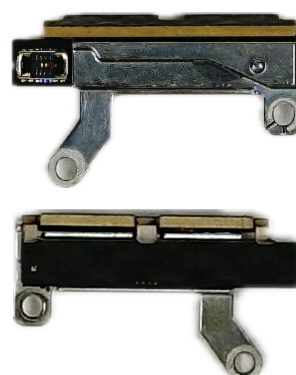
**FCAM cowl-
mmWave**
G730-08354-03



**FCAM cowl-
Sub6**
G730-08354-83



mmWave module
G949-01036-00



Sub6 heatsink
G850-00566-01



Screw
G250-07214-00



Screw
G250-07219-00



mmWave flex
G652-10231-01



mmWave TIM
G806-10422-00



Front camera FoF
G806-11428-00



Remove the screw

Remove the **FCAM cowling screw** with the **torx plus 3IP screwdriver**.

Part: G250-07214-00 (Screw)



Use caution

Be careful when you use the screwdriver.

Don't damage the adjacent battery.

Incorrect use of the screwdriver could cause injury to you or others or damage to the battery or the product.



Note

Don't reuse the parts.



Remove the FCAM cowling

- Push the **snap** up with an **ESD stick** as shown in Fig 1.
- Remove the **FCAM cowling** from the **snap** with an **ESD stick** as shown in Fig 2.

Part: G730-08354-03 (FCAM cowling mmWave)

Part: G730-08354-83 (FCAM cowling sub6)



Note

Don't reuse the part.



Disconnect the FCAM

Detach the **FCAM connector** from the **logic board** with the **ESD spudger**.

Note

Use the **ESD spudger** to avoid damage to the components.



Disconnect the mmWave

Detach the **mmWave connector** from the **logic board** with the **ESD spudger**.



Note

This step is only present in the mmWave SKU.

Use the **ESD spudger** to avoid damage to the components.



Remove the screw

Remove the **mmWave screw** with the **torx plus 3IP screwdriver**.

Part: G250-07219-00 (Screw)

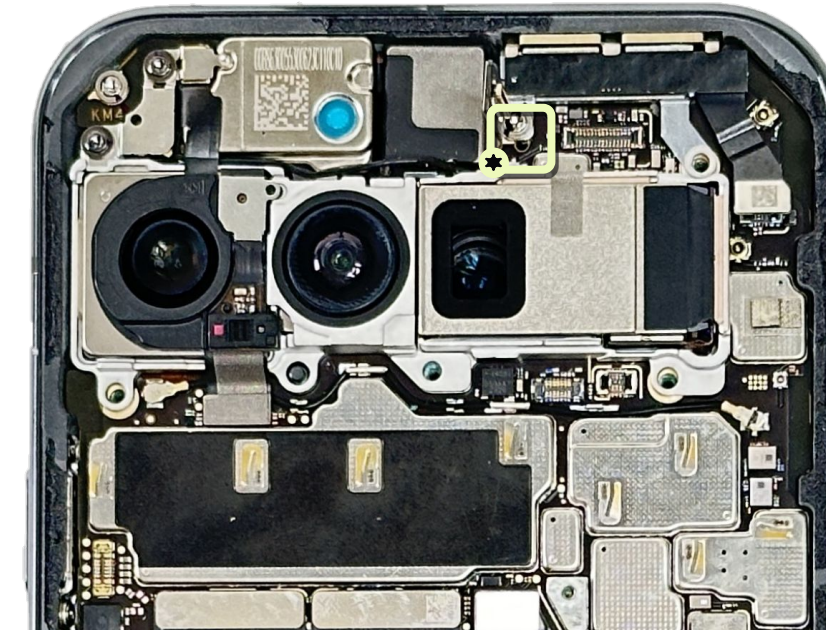
Use caution

Be careful when you use the screwdriver.
Don't damage the adjacent battery.

Incorrect use of the screwdriver could cause injury to you or others or damage to the battery or the product.

Note

Don't reuse the parts.

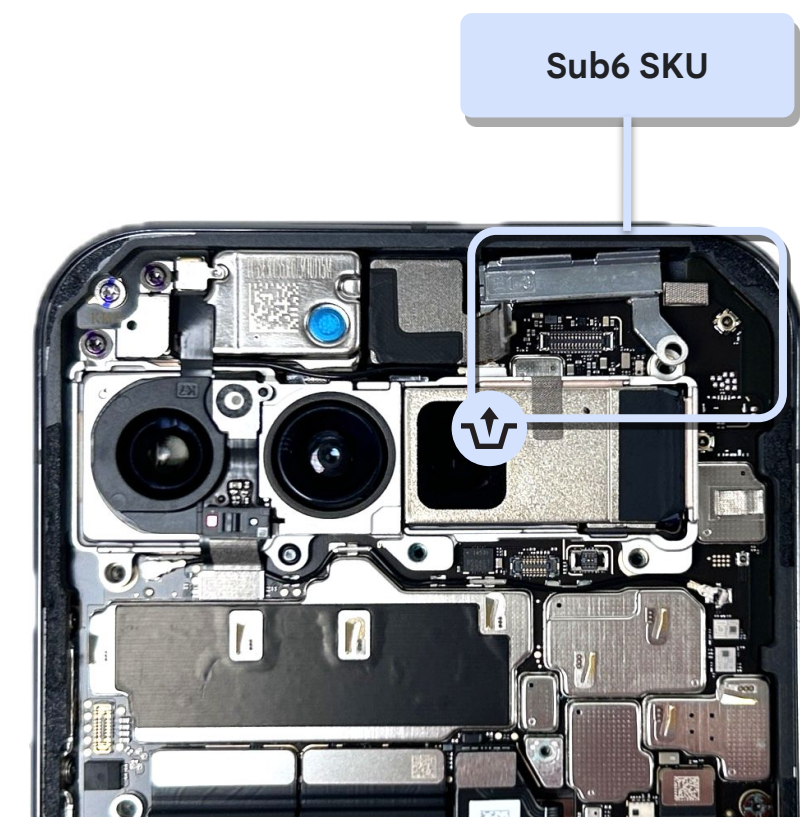
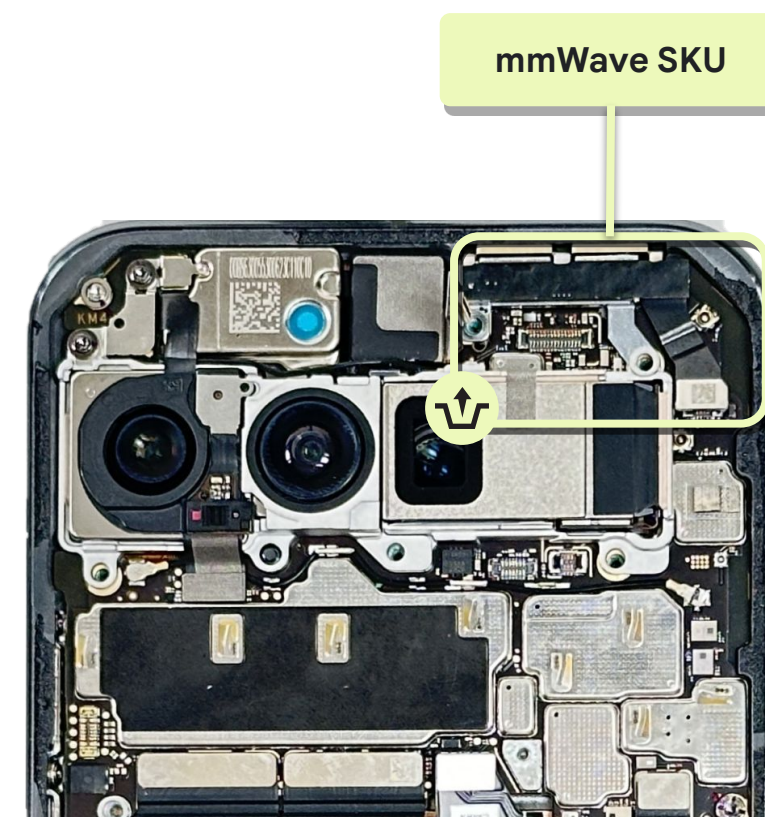


Remove the mmWave module

Remove the **mmWave module** with **ESD tweezers**.

Part: G949-01036-00 (mmWave module)

Part: G850-00566-01 (Sub6 heatsink)



Finished! Need assembly instructions? →

Remove the mmWave flex

Detach the **mmWave flex** from the **mmWave module** with the **ESD spudger**.

Part: G652-10231-01 (mmWave flex)

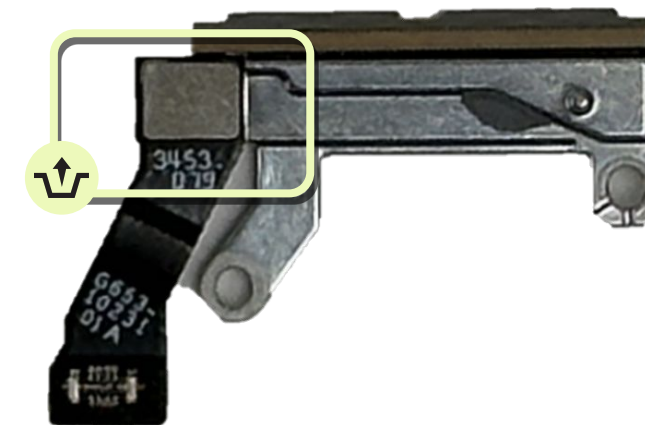
Note

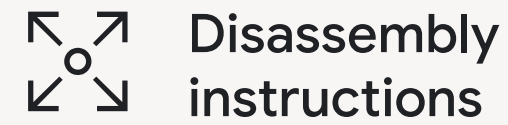
This step is only present in the mmWave SKU.



Use caution

This step only applies to when there's either mmWave or heatsink mmWave damage.





Jumpflex

Jumpflex connects the logic board to the chin board.
Jumpflex includes the DJ flex and the RJ flex.

Use caution

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

Prerequisites

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


- **BG sub**
- **mmWave module**


Tools


Torx plus 3IP screwdriver
ESD spudger
ESD tweezers

 Required parts

Reuse indications

 Reusable without reclaim

 Reusable with reclaim

 Not reusable after disassembly

Jumpflex

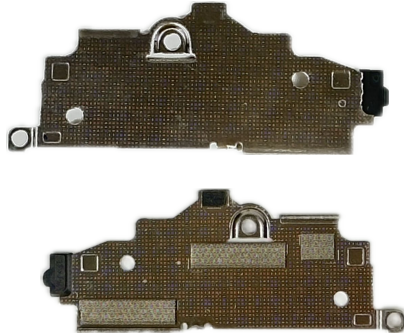
Here's the list of parts for the jumpflex disassembly.

DJ flex tape
G806-11965-01



Not reusable after disassembly

CLB cowling
G730-08533-11




Reusable without reclaim

DJ flex
G949-01035-00




Reusable without reclaim

Screw
G250-07315-00



Not reusable after disassembly

RJ flex
G652-10239-04



Reusable without reclaim

Remove the adhesive

Remove the **DJ flex tape** with **ESD tweezers**.

Part: G806-11965-01 (DJ flex tape)



Remove the screws

Remove the **two CLB cowling screws** with the **torx plus 3IP screwdriver**.

Part: G250-07315-00 (Screw)

Use caution

Be careful when you use the screwdriver.
Don't damage the adjacent battery.

Incorrect use of the screwdriver could cause injury to you or others or damage to the battery or the product.

Note

Don't reuse the parts.



Remove the CLB cowling

Remove the **CLB cowling** with **ESD tweezers** from the **right side**.

Part: G730-08533-11 (CLB cowling)



Remove the DJ flex

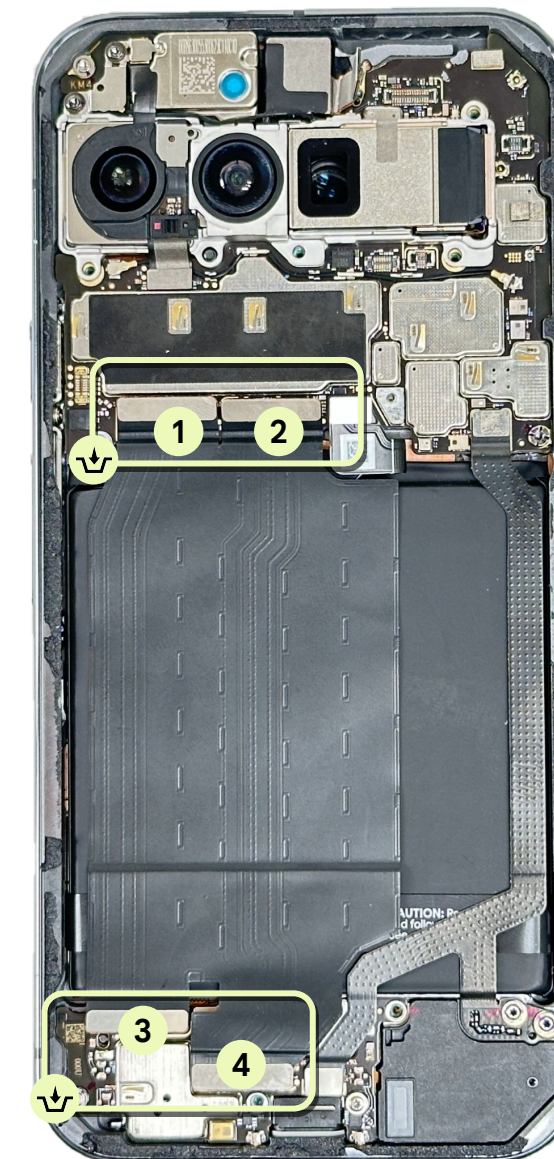
- Detach the **four DJ flex connectors** from the **logic board** and the **chin board** with the **ESD spudger**.
- Remove the **DJ flex**.

Part: G949-01035-00 (DJ flex)



Note

Use the **ESD spudger** to avoid damage to the components.



Remove the screws

Remove the **two RJ flex screws** with the **torx plus 3IP screwdriver**.

Part: G250-07315-00 (Screw)



Use caution

Be careful when you use the screwdriver.
Don't damage the adjacent battery.

Incorrect use of the screwdriver could cause injury to you or others or damage to the battery or the product.



Note

Don't reuse the parts.



Finished! Need assembly instructions? →

Remove the RJ flex

- Loosen **two RJ flex connectors** from the **logic board** and the **chin board** with the **ESD spudger**.
- Remove the **RJ flex**.

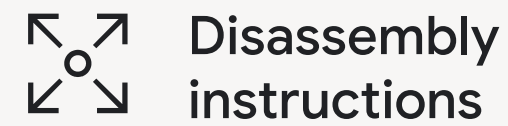
Part: G652-10239-04 (RJ flex)



Note

Use the **ESD spudger** to avoid damage to the components.





ANT4 board

Use caution

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

Prerequisites

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

- **BG sub**

Tools


Torx plus 3IP screwdriver
ESD tweezers
ESD spudger


 Required parts


ANT4 board


Here's the list of parts for the ANT4 board disassembly.


Reuse indications


 Reusable without reclaim


 Reusable with reclaim


 Not reusable after disassembly


ANT4 board
G949-01034-00 





ANT4 cowling
G730-08339-23 





Screw
G250-07214-00 



Screw
G250-07219-00 



Mic3 mesh
G806-11492-01 



Remove the screw

Remove the **two ANT4 cowling screws** with the **torx plus 3IP screwdriver**.

Part: G250-07214-00 (Screw)



Note

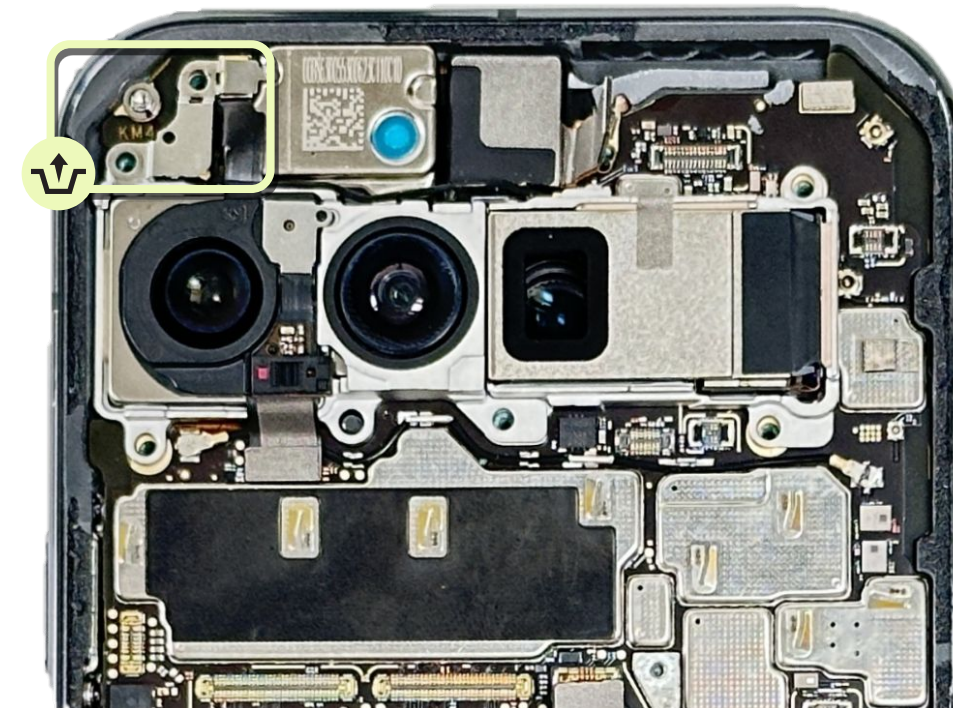
Don't reuse the parts.



Remove the ANT4 cowling

Remove the **ANT4 cowling** with **ESD tweezers**.

Part: G730-08339-23 (ANT4 cowling)



Disconnect the LDAF flex

Loosen the **LDAF flex connector** from the **ANT4 board** with the **ESD spudger**.



Remove the ANT4 cable

Disconnect the **ANT4 cable** from the **ANT4 board** with **ESD tweezers** or **spudger**.



Remove the screw

Remove the **ANT4 screw** with the **torx plus 3IP screwdriver**.

Part: G250-07219-00 (Screw)



Note

Don't reuse the parts.



Finished! Need assembly instructions? →

Remove the ANT4 board

Remove the **ANT4 board** with the **ESD spudger** from the **top boss**.

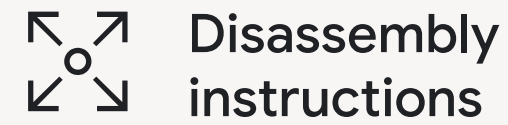
Part: G949-01034-00 (ANT4 board)

Note

Use the **ESD spudger** to avoid damage to the components.

Don't wear gloves when you handle the **ANT4 board**.





Logic board

The logic board consists of the memory, storage, processor, and communication components such as Wi-Fi and mmWave.

Use caution

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


Prerequisites

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

- **BG sub**
- **mmWave module**
- **Jumpflex**
- **ANT4 board**

Tools

Torx plus 3IP screwdriver
ESD spudger
ESD tweezers
IPA and cloth

 Required parts

Logic board

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

Reuse indications




Reusable without
reclaim



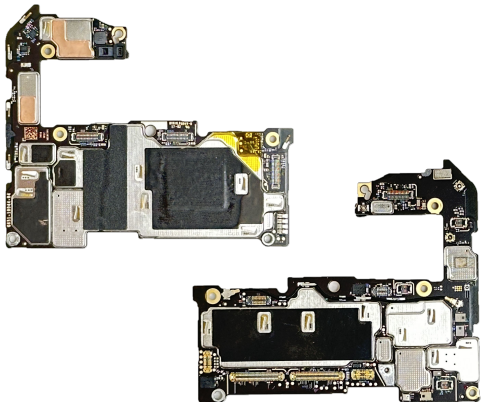
Reusable with
reclaim




Not reusable
after disassembly


Logic board 


Multiple part numbers




P-sensor foam 

G806-10419-05



Screw 

G250-07484-00



SOC TIM 

G806-10416-00



Remove the screw

Remove the **screw** with a **standoff 2.5 mm screwdriver**.

Part: G250-07484-00 (Screw)



Use caution

Be careful when you use the screwdriver.
Don't damage the adjacent battery.

Incorrect use of the screwdriver could cause injury to you or others or damage to the battery or the product.



Note

Don't reuse the parts.



Remove the logic board

Remove the **logic board** with **ESD tweezers** from the screw boss.

Part: Multiple part numbers (Logic board)



Use caution

Be careful to avoid damage to the components on the logic board.



Note

Don't wear gloves when you handle the logic board.



Finished! Need assembly instructions? →

Remove the P-sensor foam

Remove the **P-sensor foam** from the **logic board**.

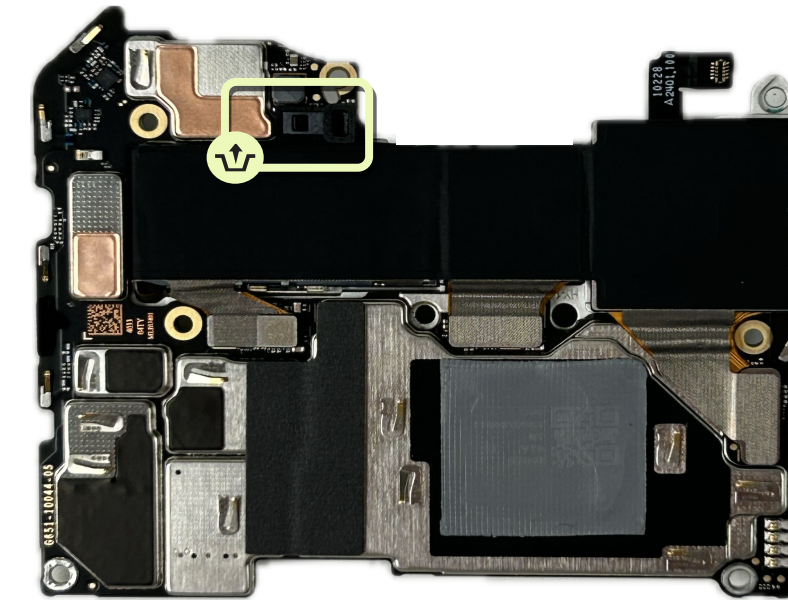
Part: G806-10419-05 (P-sensor foam)



Use caution

Don't reuse the part.

Note that this step is only to replace the P-sensor foam if it's deformed.





Rear camera

This generation is allowed to replace the separate rear camera.

Use caution

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


Prerequisites

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

- **BG sub**
- **mmWave module**
- **Jumpflex**
- **ANT4 board**
- **Logic board**

Tools

ESD spudger
ESD tweezers
IPA and cloth

 Required parts

Reuse indications



Reusable without
reclaim



Reusable with
reclaim




Not reusable
after disassembly

Rear camera

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

Rear camera
G949-01032-00



The image shows two views of the rear camera assembly. The top view shows the camera module with its lens and sensor, and the bottom view shows the camera module with its flex cable and connectors.

LDAF flex
G949-01029-00




The image shows two views of the LDAF flex. The top view shows the flex with its lens and sensor, and the bottom view shows the flex with its connectors and mounting points.

LDAF adhesive
G806-13914-00



The image shows a circular LDAF adhesive with a small tab at the top.

Cable
G821-00924-00



The image shows a long, thin cable with connectors at both ends.

Disconnect the rear camera

- Detach the **three rear camera connectors** from the **logic board** with the **ESD spudger** as shown in Fig 1.
- Detach the **LDAF connector** from the **logic board** with the **ESD spudger** as shown in Fig 2.



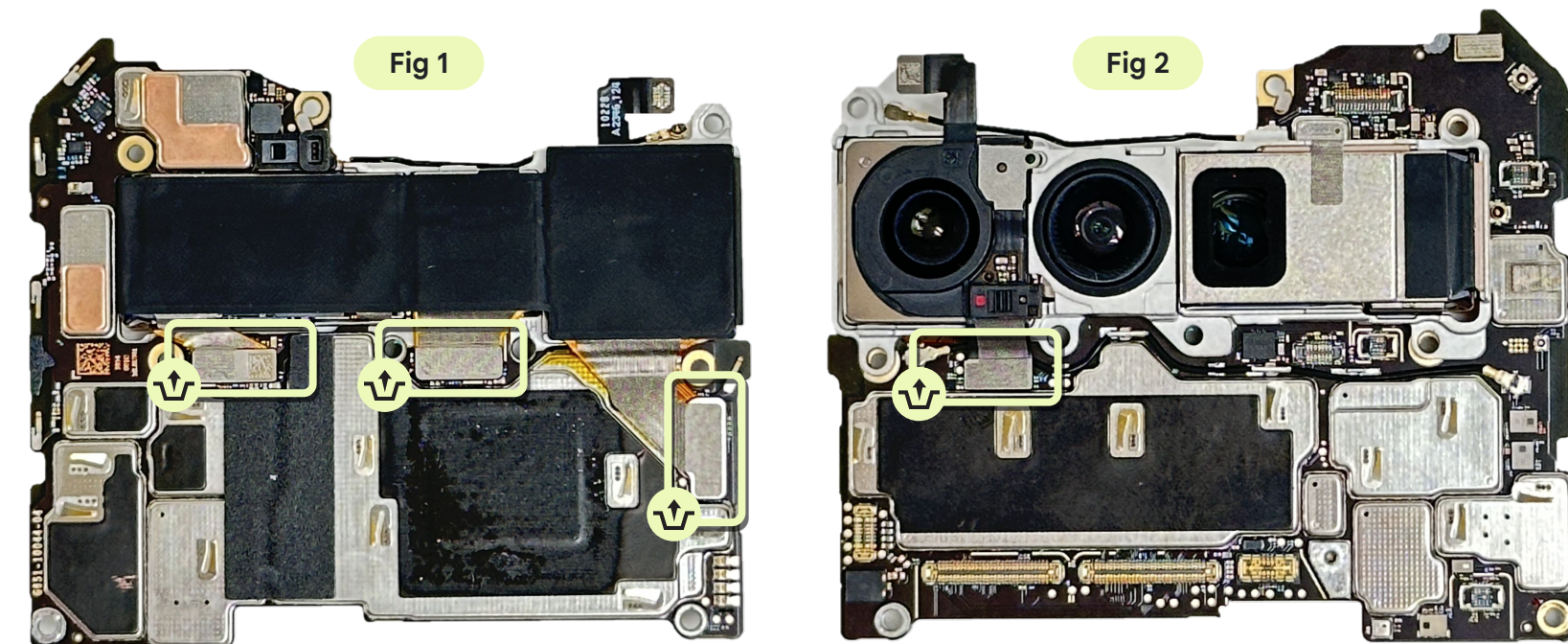
Note

Use the **ESD spudger** to avoid damage to the components.



Use caution

Be careful to avoid touching the **rear camera lens**.



Remove the rear camera

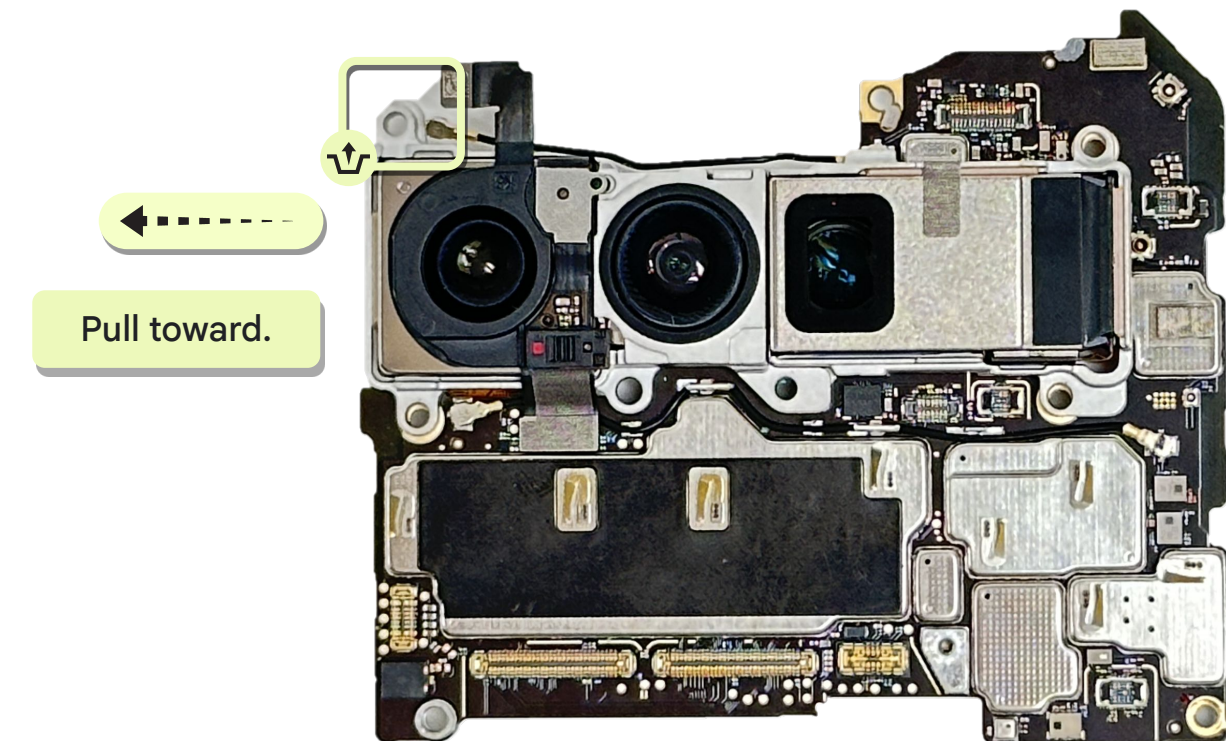
Remove the **rear camera** with **ESD tweezers**.

Part: G949-01032-00 (Rear camera)



Use caution

Be careful to avoid touching the **rear camera lens**.



Remove the ANT4 cable

- Disconnect the **ANT4 cable** from the **logic board** with **ESD tweezers or spudger**.
- Remove the **ANT4 cable**.

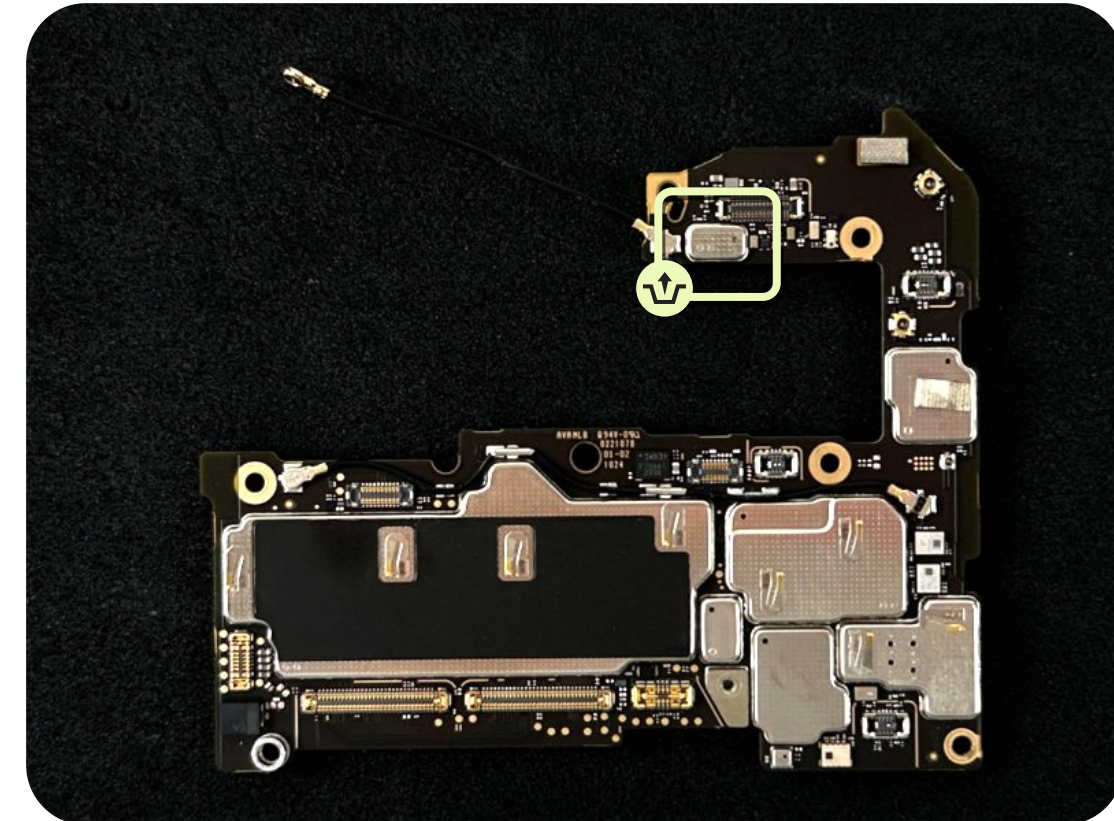
Part: G821-00924-00 (Cable)



Note

Don't reuse the part.

This step should be carried out on soft surface such as EVA sponge.



Finished! Need assembly instructions? →

Remove the LDAF flex

- There's a gap between the **rear camera** and the **LDAF flex** as shown in Fig 1.
- Remove the **LDAF flex** with the **ESD spudger** as shown in Fig 2.

Part: G949-01029-00 (LDAF flex)



Use caution

Be careful to avoid touching the **rear camera lens**.

Fig 1

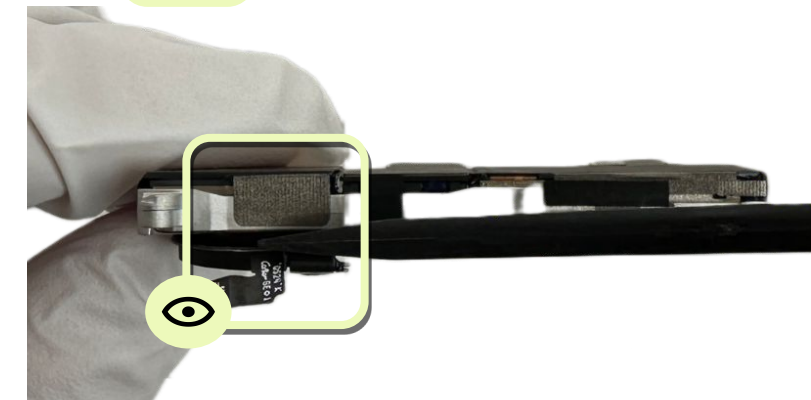
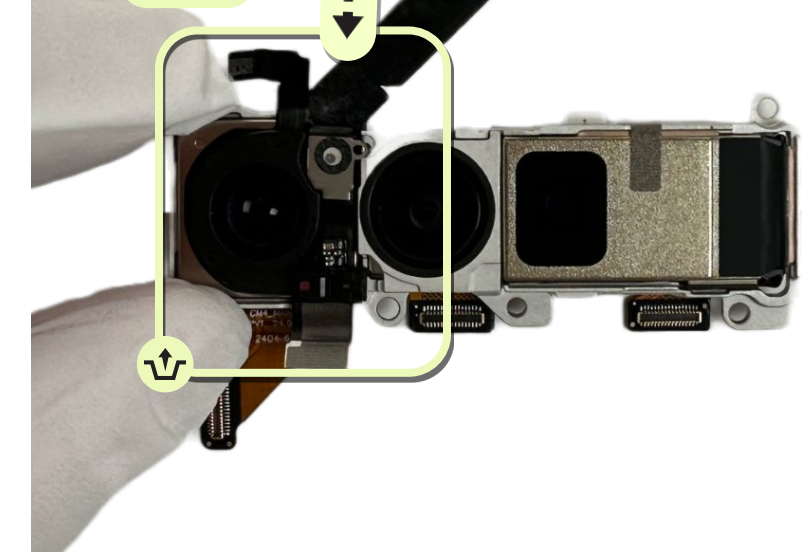
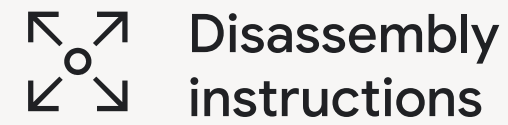


Fig 2





Front camera

The front camera isn't fastened to the enclosure, it's simply connected to the logic board.

Use caution

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


Prerequisites

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

- **BG sub**

Tools

PESD spudger
ESD tweezers
IPA and cloth

 Required parts

Front camera

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

Reuse indications



Reusable without
reclaim



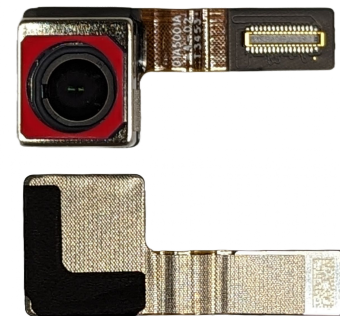
Reusable with
reclaim



Not reusable
after disassembly

Front camera

G949-01031-00



FCAM adhesive

G806-11408-01



Finished! Need assembly instructions? →

Remove the front camera

Remove the **front camera** from the **enclosure**.

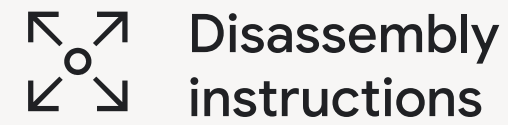
Part: G949-01031-00 (Front camera)



Use caution

Be careful to avoid touching the **front camera lens**.





Top speaker

The top speaker is used both as an ear speaker to make calls and a second loudspeaker for music and video playback.

Use caution

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


Prerequisites

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

- **BG sub**
- **mmWave module**
- **Jumpflex**
- **ANT4 board**
- **Logic board**

Tools

ESD spudger
ESD tweezers
IPA and cloth

 Required parts

Reuse indications



Reusable without
reclaim




Reusable with
reclaim





Not reusable
after disassembly


Top speaker


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

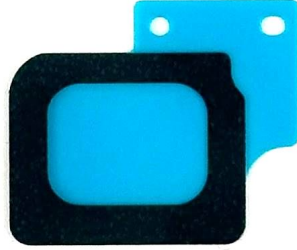
Top speaker 
G863-00553-00





Top speaker FoF 
G806-11577-00



Top speaker adhesive 
G806-11891-01



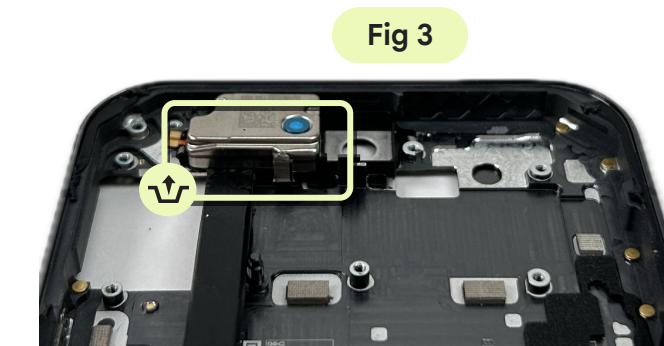
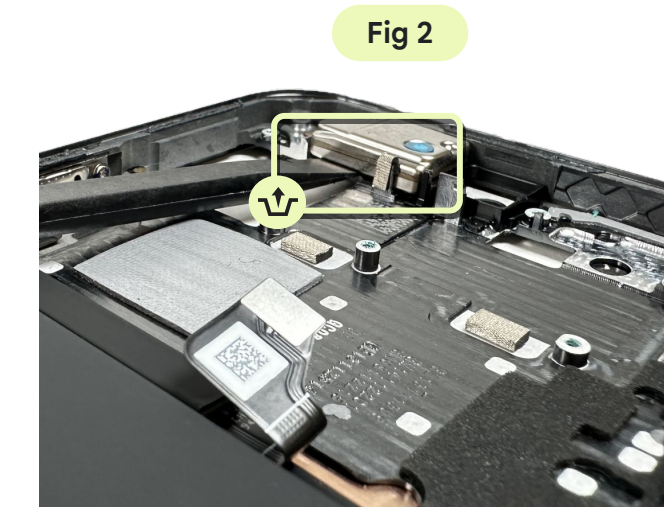
FoF 
G806-11578-00



Remove the top speaker

- There's a slot between the **top speaker** and the **enclosure** as shown in Fig 1.
- Remove the **top speaker** with the **ESD spudger** as shown in Fig 2 and Fig 3.

Part: G863-00553-00 (Top speaker)



Finished! Need assembly instructions? →

Remove the FoF or the top speaker FoF

Remove the **FoF** or the **top speaker FoF** with the **ESD spudger** as shown in Fig 1 and Fig 2.

Part: G806-11578-00 (FoF)

Part: G806-11577-00 (Top speaker FoF)



Note

Don't reuse the part.

This step is only to replace the FoF or the top speaker FoF if they're deformed.

Fig 1

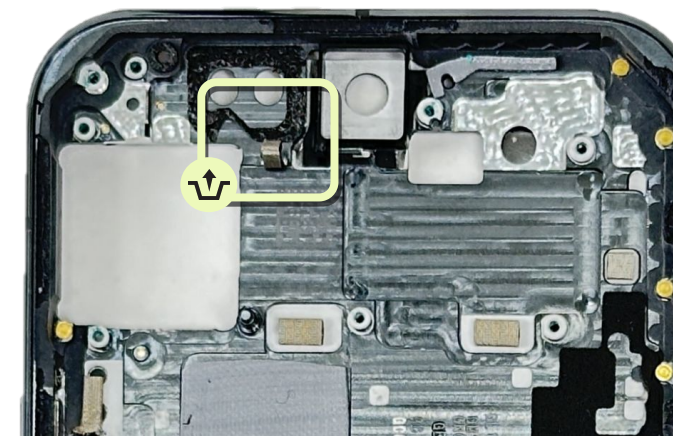
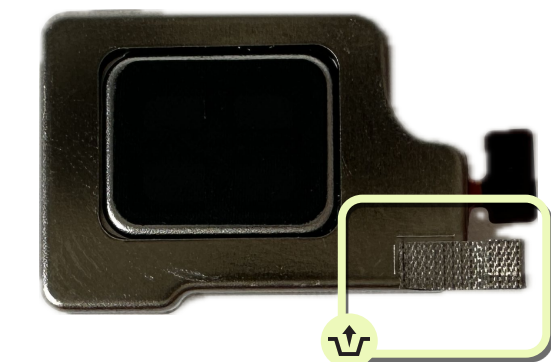
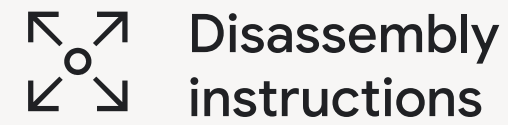


Fig 2





Battery

Use caution

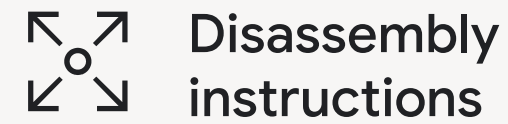
Use caution if you engage in repair.

Opening or repairing a device can present 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.

Confirm before you proceed

- Battery is fully discharged.
- Inspect the battery if the phone battery shows signs of swelling or damage, or if the phone feels hot or emits strong odor, *don't* attempt disassembly.
- Take care not to expose the phone or its components to liquids after disassembly.



Battery

It's recommended to use the universal disassembly fixture V3 to fasten the device to remove the battery by pull jacket.
If uses other methods, it may damage the device.

Use caution

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

Prerequisites

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

- **BG sub**
- **Jumpflex**

Tools

Heat plate	Suction bulb
Universal disassembly fixture V3	Small suction cup
Pixel universal base	3M AP111 primer
Pixel universal holder	Dust-free cotton swabs
Pixel universal holder limiting block	Finger cots
Pixel universal supporting rubber	IPA and cloth
Pixel universal press plate 12 mm	
Pixel universal press fixture	
Pixel 9 Pro XL battery press rubber	

 Required parts

Battery

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



Reuse indications



Reusable without
reclaim



Reusable with
reclaim



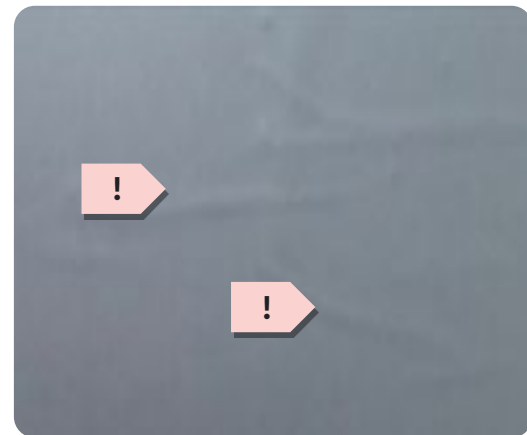
Not reusable
after disassembly

Caution ⚠

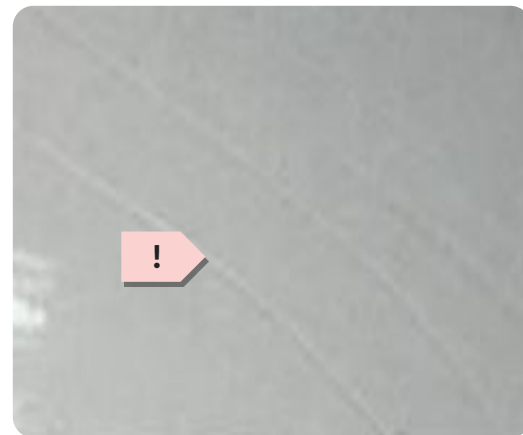
Unacceptable battery conditions



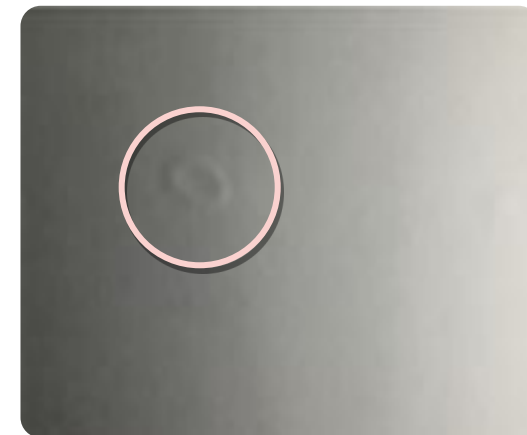
Pouch damage



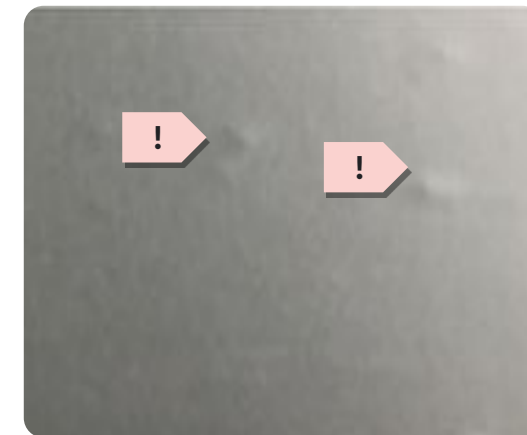
Line protrusion



Scratch



Contamination mark



Dot protrusion



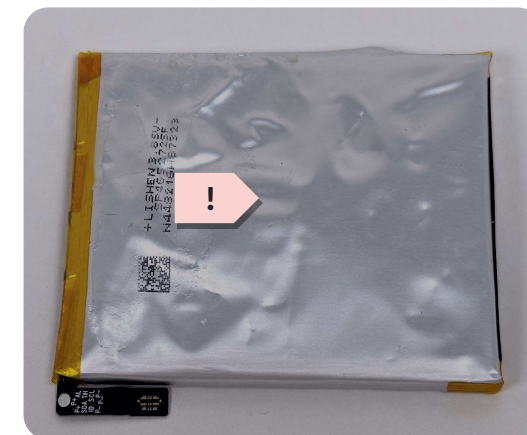
Dent



Bubbling



Imprinted line

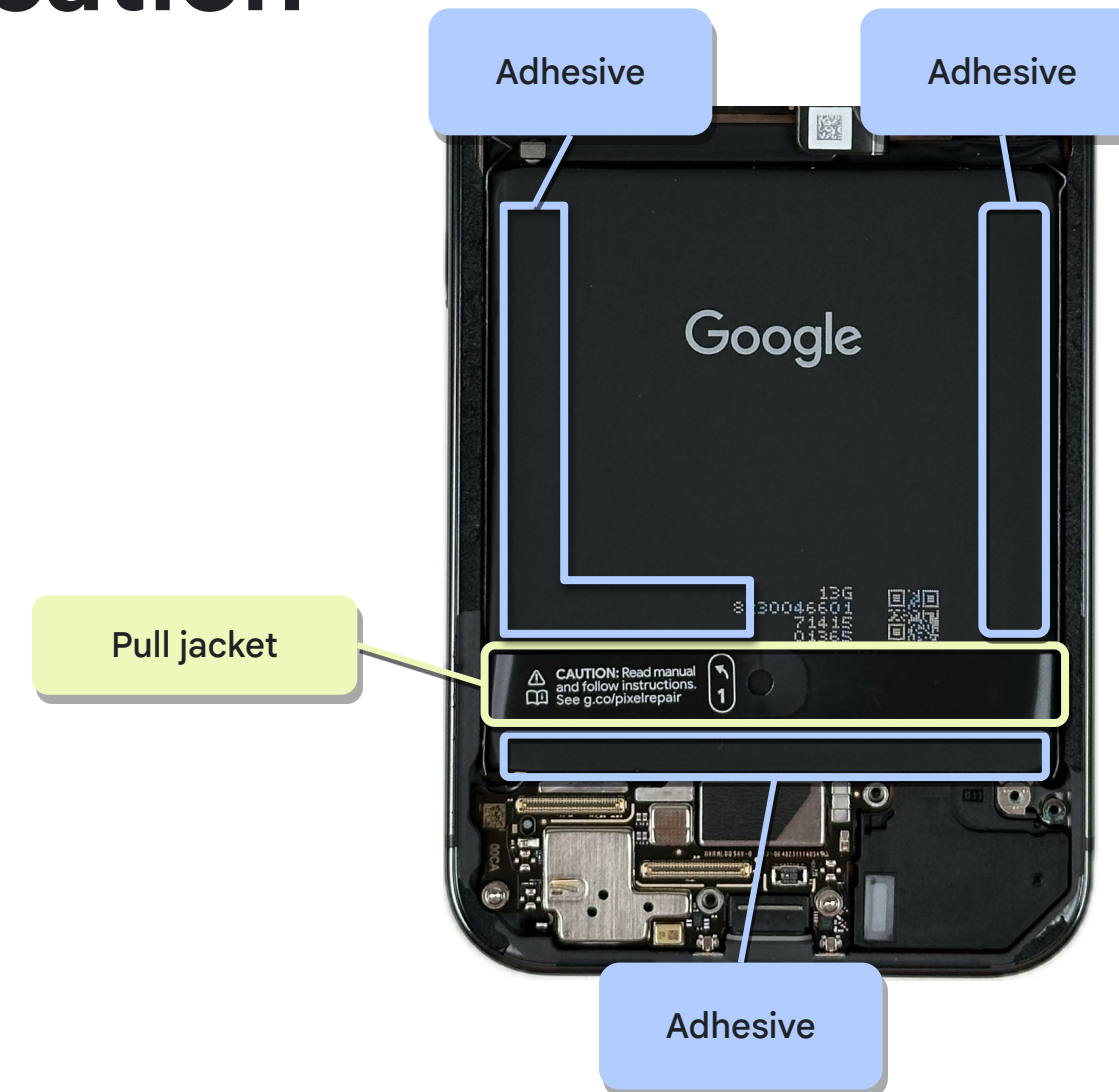


Swelling or electrolyte leakage

The pull jacket and the adhesive location

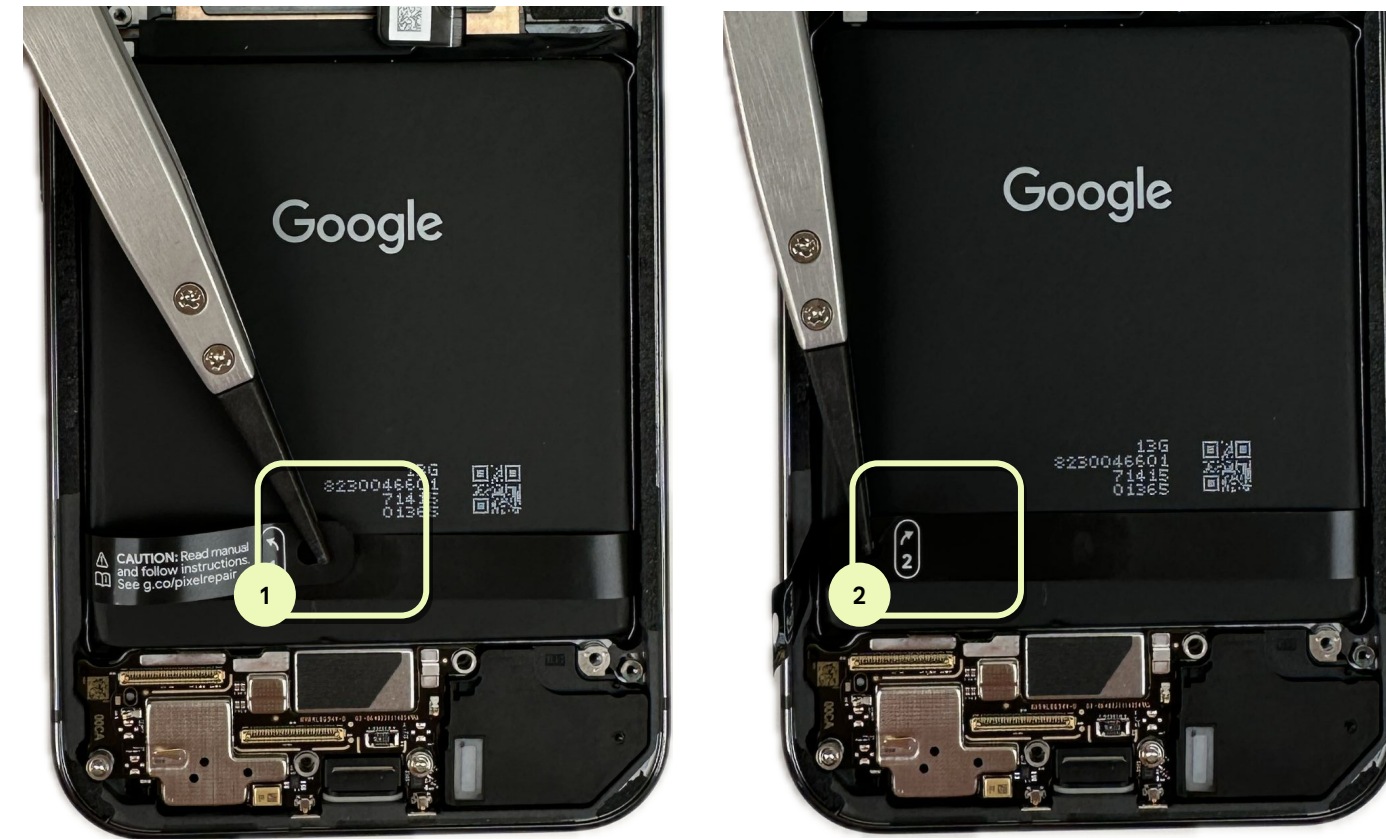
The **indicated area** is where the **pull jacket** and the **adhesive** are located.

Part: G949-01033-00 (Battery)



Unstick the pull jacket

Unstick the **pull jacket** following the instructions with **ESD tweezers**.



Soften the glue

Place the device face down on the **heat plate** set to **158°F (70°C)** for **10 minutes** to soften the **battery** adhesive evenly.



Use caution

Heat plate is a hot surface. Use caution as it could cause burns.



Secure the device

- Place the device on the **fixture** and adjust so that the device is centered.
- Turn the handle clockwise to lock the device in position.



Lift the battery

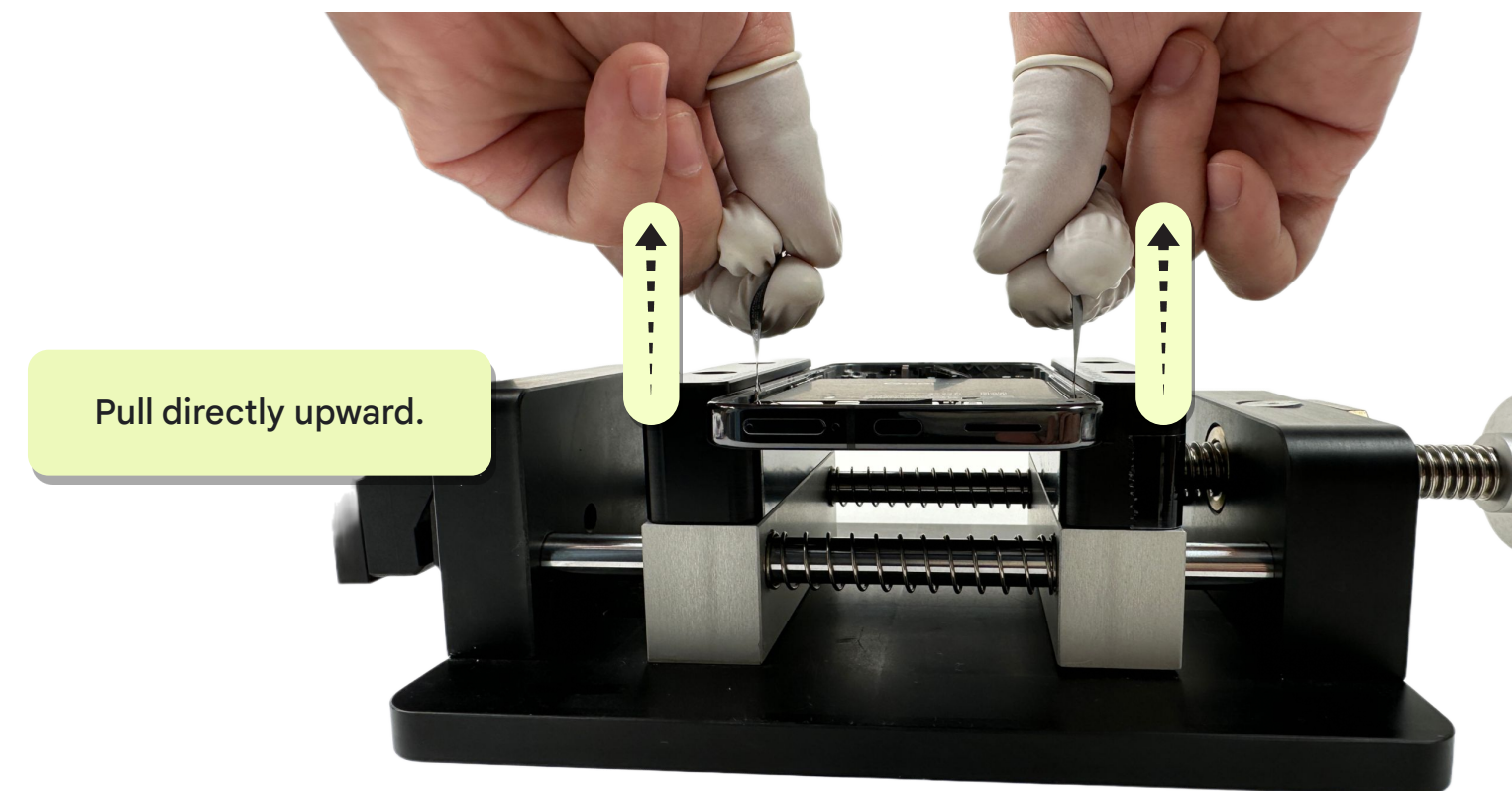
- Wear **ESD finger cots** to increase friction to prevent the pull jacket from slipping.
- Pull both sides of the jacket perpendicularly to remove the **battery**.
- Gently remove the **battery** and store it safely.

Part: G949-01033-00 (Battery)



Use caution

The battery is easier to remove if you lift the battery as soon as the device leaves the heat plate before adhesive curing.



Finished! Need assembly instructions? →

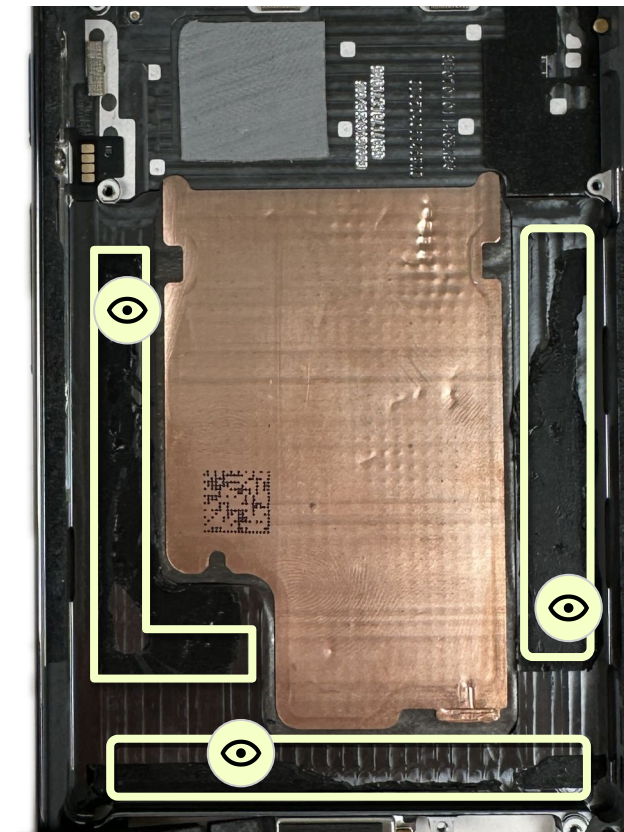
Clean the residue

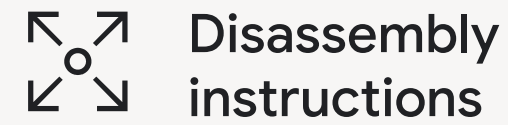
- Clean any residue in the **battery** area with the **ESD spudger**.
- Apply **IPA** with a **dust-free cloth**.



Note

It's easier to clean the residue immediately after you remove the battery.





Chin board

The chin board communicates with the components such as the display, USB port, and SIM card.

Be aware that a replacement SIM tray may not have the IMEI number present.

Use caution

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



Prerequisites

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

- **Display**
- **BG sub**
- **Jumpflex**



Tools

- Torx plus 3IP screwdriver
- ESD spudger
- ESD tweezers
- SIM card ejection pin

 Required parts

Chin board

Here's the list of parts for the chin board disassembly.

Reuse indications



Reusable without
reclaim



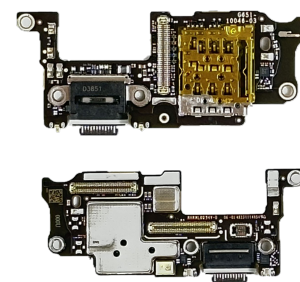
Reusable with
reclaim



Not reusable
after disassembly

Chin board

G949-01028-00



SIM tray

Multiple part numbers



Screw

G250-07219-00



Remove the screw

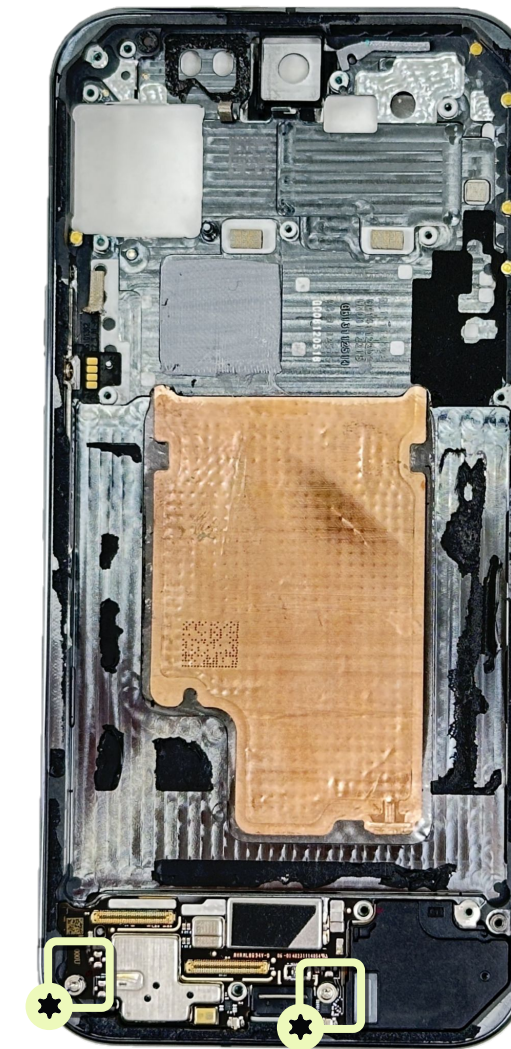
Remove the **two chin board screws** with the **torx plus 3IP screwdriver**.

Part: G250-07219-00 (screw)



Note

Don't reuse the parts.



Remove the SIM tray

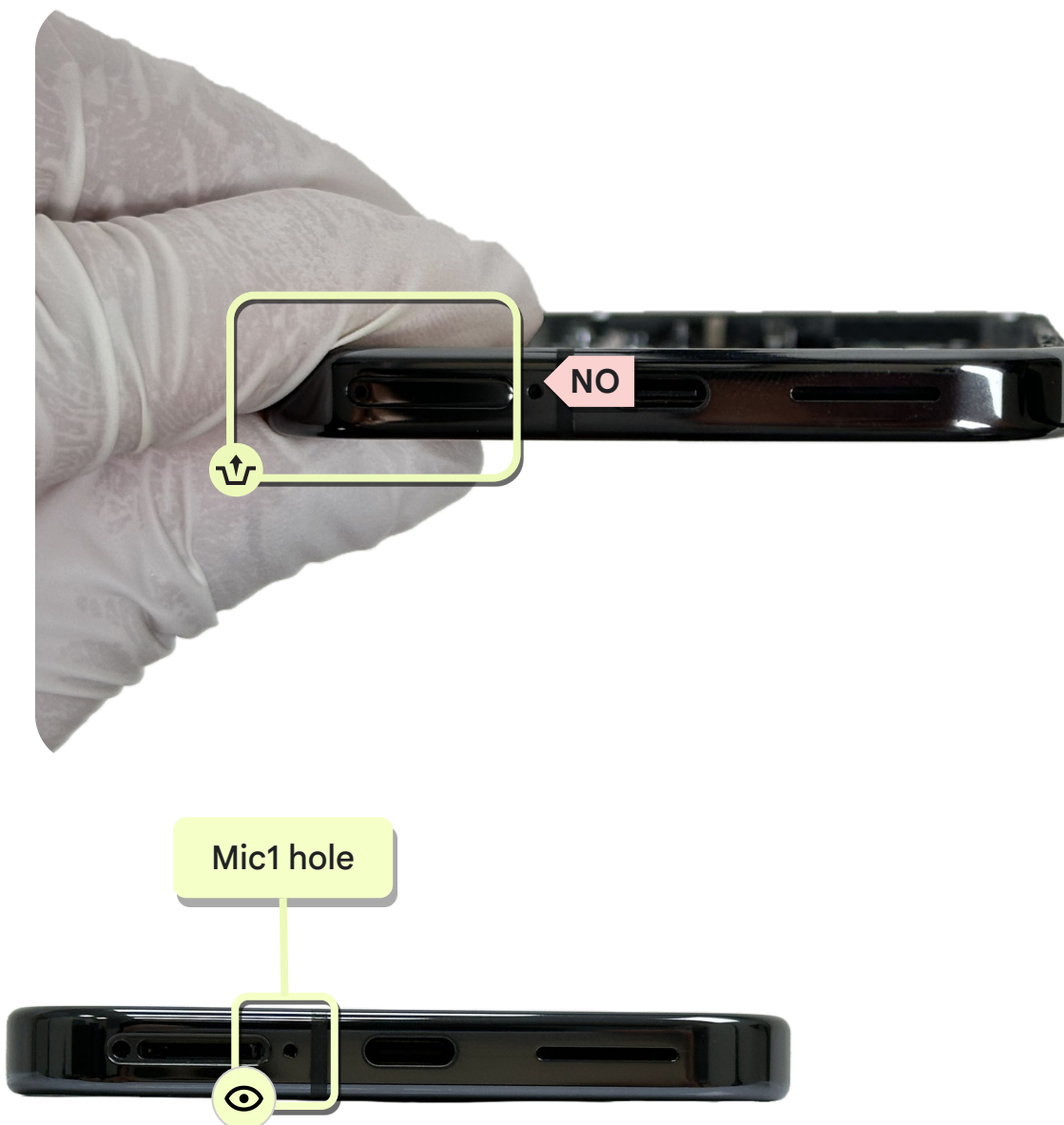
Remove the **SIM tray** with the **SIM card ejection pin**.

Part: Multiple part numbers (SIM tray)



Use caution

Be careful to avoid scratching the enclosure.



Finished! Need assembly instructions? →

Remove the chin board

- There's a slot between the **chin board** and **retaining wall**.
- Remove the **chin board** with the **ESD spudger**.

Part: G949-01028-00 (Chin board)



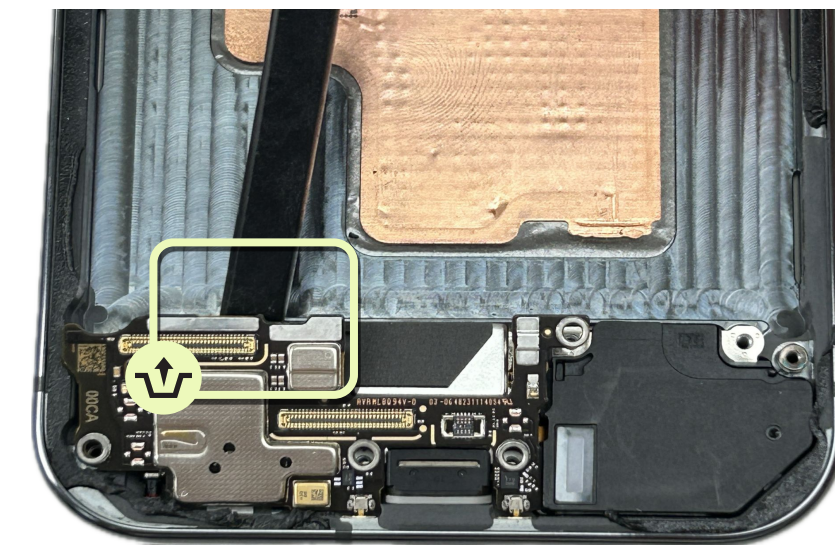
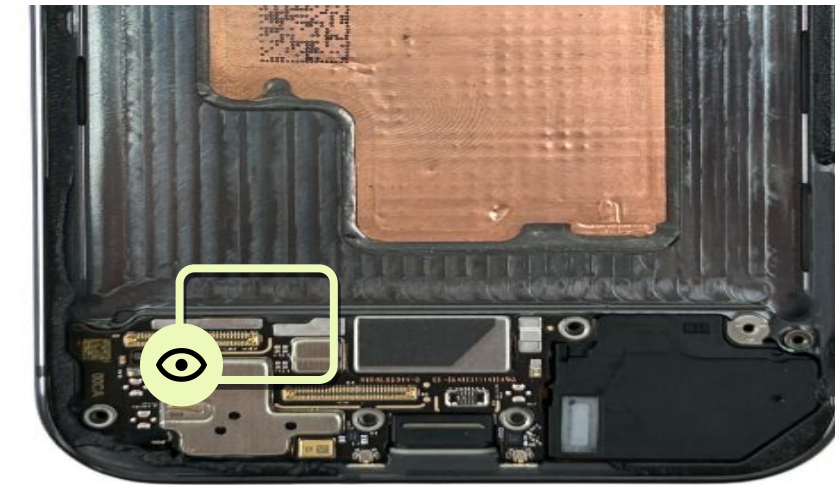
Use caution

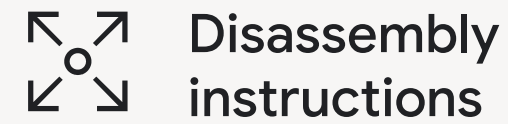
Be careful to avoid damage to the components on the **chin board**.



Note

Don't wear gloves when you handle the **chin board**.





Bottom speaker

The **bottom speaker** is adhered to the **enclosure**.
Be careful not to damage the speaker membrane.

Use caution

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

Prerequisites

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

- **BG sub**
- **Jumpflex**
- **Chin board**

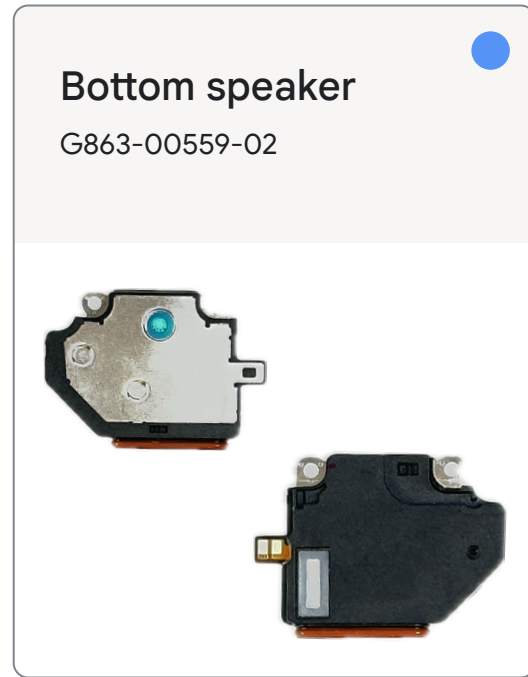
Tools

ESD spudger
ESD tweezers
Dust-free cotton swabs
IPA and cloth
Sankol lubricant CFD 409Z_V2

 Required parts

Bottom speaker

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



Reuse indications



Reusable without
reclaim



Reusable with
reclaim



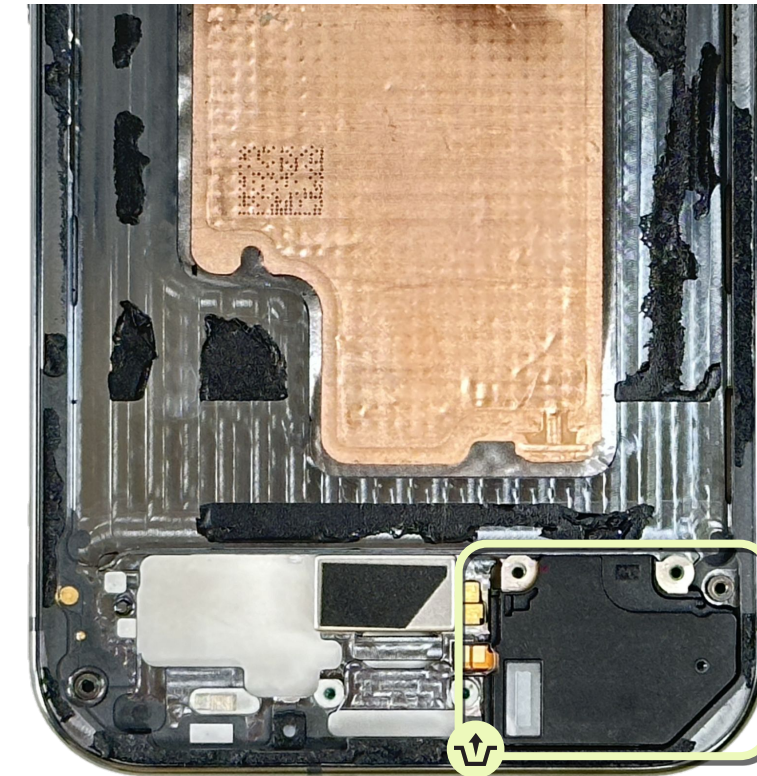
Not reusable
after disassembly

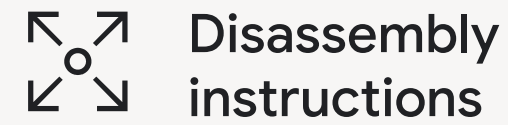
Finished! Need assembly instructions? →

Remove the bottom speaker

Remove the **bottom speaker** with the ESD spudger.

Part: G863-00559-02 (Bottom speaker)





Vibrator

The vibrator is adhered to the enclosure.

If it's removed, replace with a new PSA and conductive tape.

Use caution

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

Prerequisites

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

- **BG sub**
- **Jumpflex**
- **Chin board**

Tools

Heat plate
ESD tweezers
ESD spudger
IPA and cloth
Sankol lubricant CFD 409Z_V2

 Required parts

Vibrator

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

Reuse indications



Reusable without
reclaim



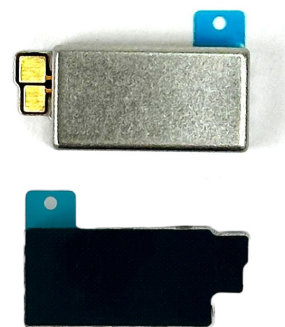
Reusable with
reclaim



Not reusable
after disassembly

Vibrator

G710-05528-01



Vibrator pad

G806-12056-02



Vibrator adhesive

G806-13155-00



Soften the glue

Place the device face down on the **heat plate** set to **158°F (70°C)** for **2 minutes** to soften the **vibrator** adhesive evenly.



Use caution

Heat plate is a hot surface. Use caution as it could cause burns.



Remove the vibrator

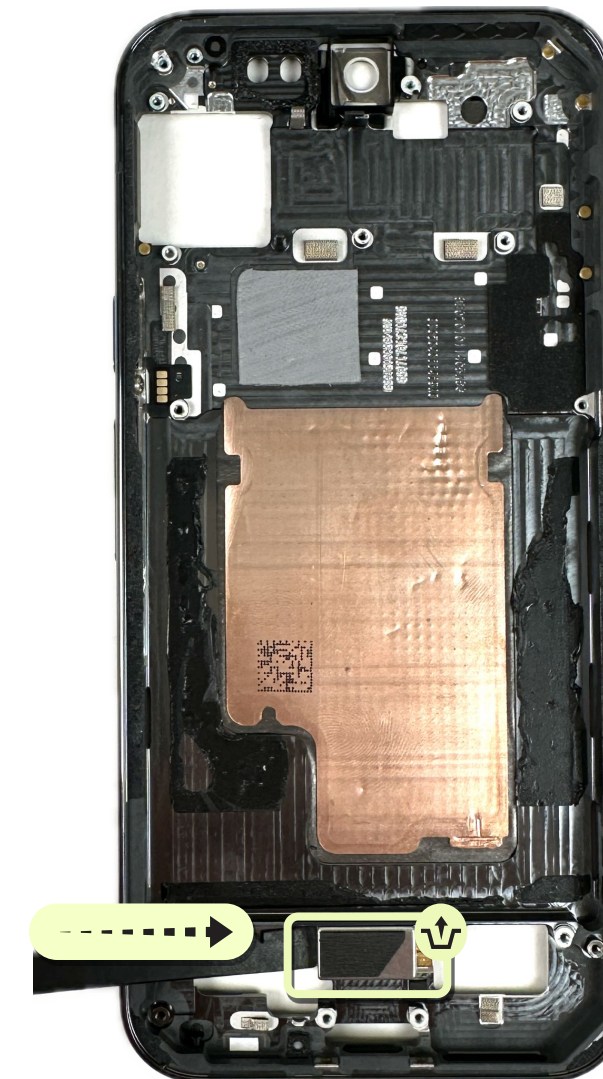
Remove the **vibrator** with the **ESD spudger**.

Part: G710-05528-01 (Vibrator)



Use caution

Heat plate is a hot surface. Use caution as it could cause burns.



Finished! Need assembly instructions? →

Remove the vibrator pad

Remove the **vibrator pad** with the **ESD spudger**.

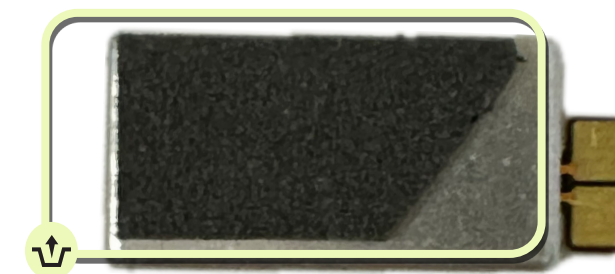
Part: G806-12056-02 (Vibrator pad)

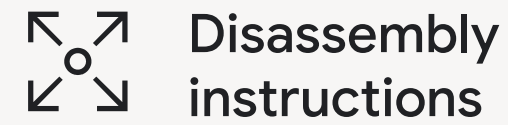


Note

Don't reuse the part.

Note that this step is only to replace the vibrator foam if it's deformed.





Enclosure

If you reuse the enclosure, ensure that any thermal paste or adhesive residue is completely removed.

Use caution

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

Prerequisites

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

- Display
- BG sub
- mmWave module
- Jumpflex
- ANT4 board
- Logic board
- Rear camera
- Front camera
- Top speaker
- Battery
- Chin board
- Bottom speaker
- Vibrator

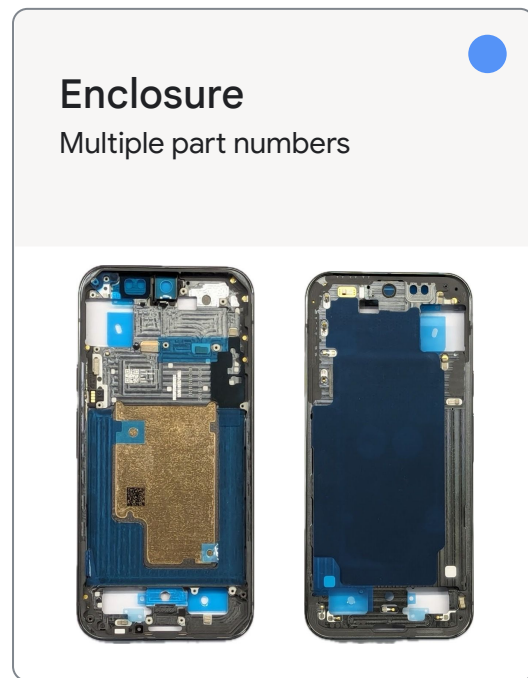
Tools

Dust-free cotton swabs
IPA and cloth

 Required parts

Enclosure

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



Reuse indications



Reusable without
reclaim



Reusable with
reclaim



Not reusable
after disassembly



Pixel 9 Pro XL repair manual

Assembly

Enclosure

Battery

mmWave module

Vibrator

Top speaker

Front camera

Bottom speaker

Rear camera

Jumpflex


Chin board

Logic board

BG sub

Display

ANT4 board

 Assembly
instructions

Enclosure

Reuse the enclosure

- Inspect the **enclosure** for adhesive residue.
- It's recommended to carefully and slowly peel off the adhesive in one piece by hand.
- Use the **ESD spudger** to clean the residue glue off the **enclosure**.
- Clean any **SOC TIM** and **mmWave TIM** residue from the **enclosure** with the **ESD spudger**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.



Use caution

Heat plate is a hot surface. Use caution as it could cause burns.

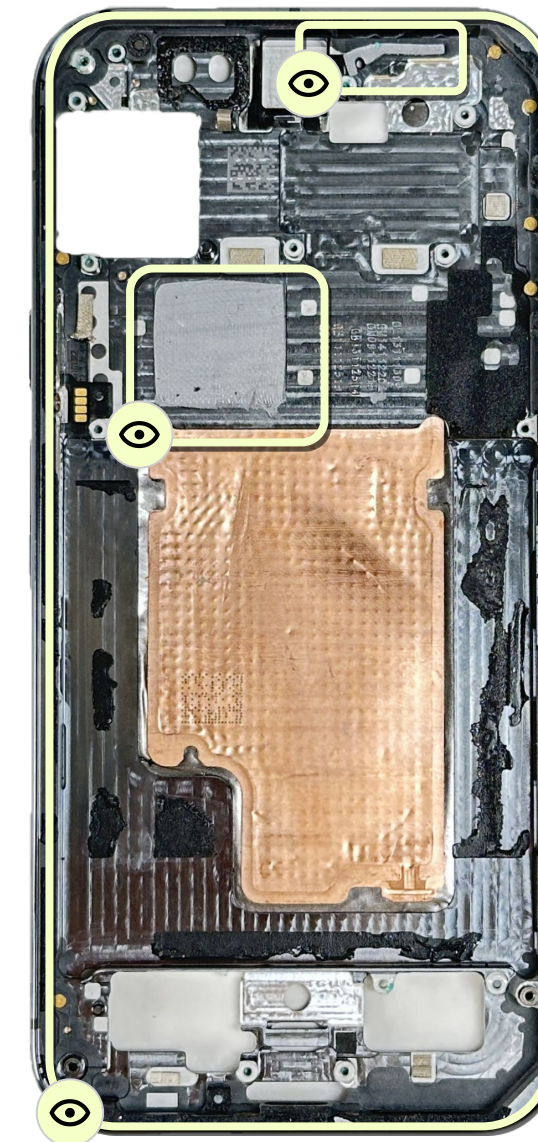



Note

Place the device on a **heat plate** at 140°F (60°C) for remove adhesive easily.

Don't heat more than 10 mins.

If **SOC TIM** is undamaged and not moved, it can be reused.



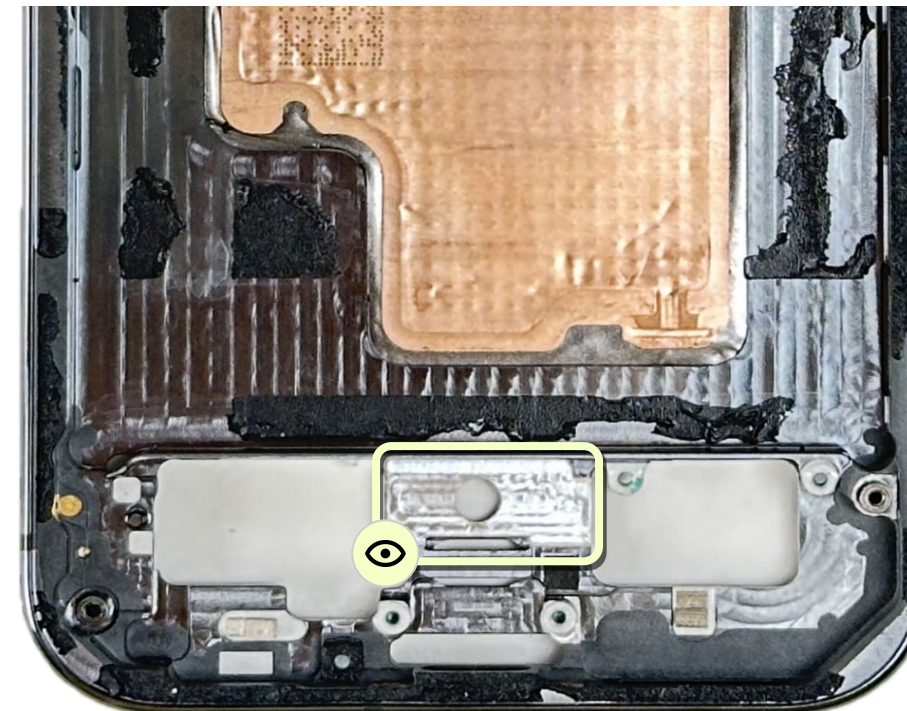
 Assembly
instructions

Vibrator

Clean the enclosure

- Clean the residue on the **enclosure** with the **ESD spudger**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

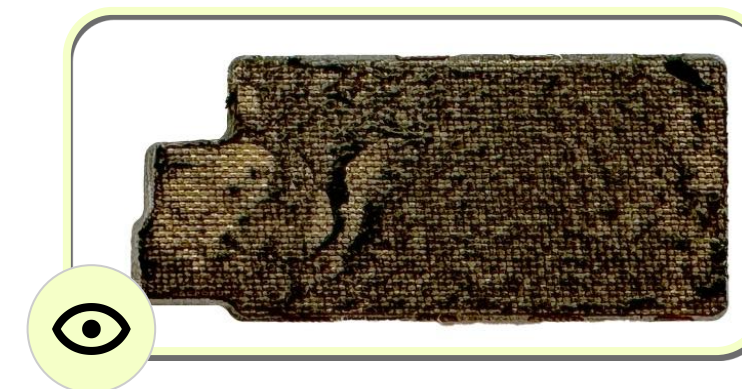
Part: Multiple part numbers (Enclosure)



Reuse the vibrator

- Clean the residue on the **vibrator** with **ESD tweezers**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

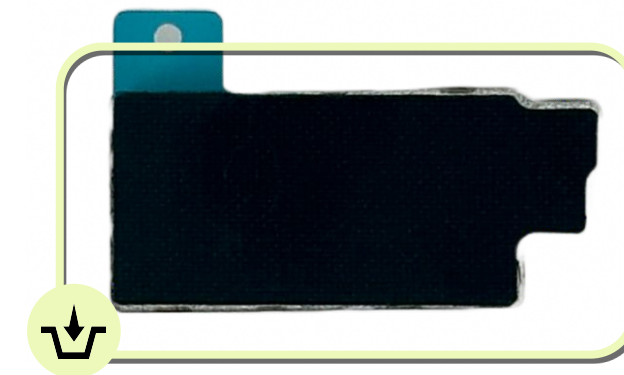
Part: G710-05528-01 (Vibrator)



Attach the vibrator adhesive

Attach the **vibrator adhesive** to the **vibrator** by the outline.

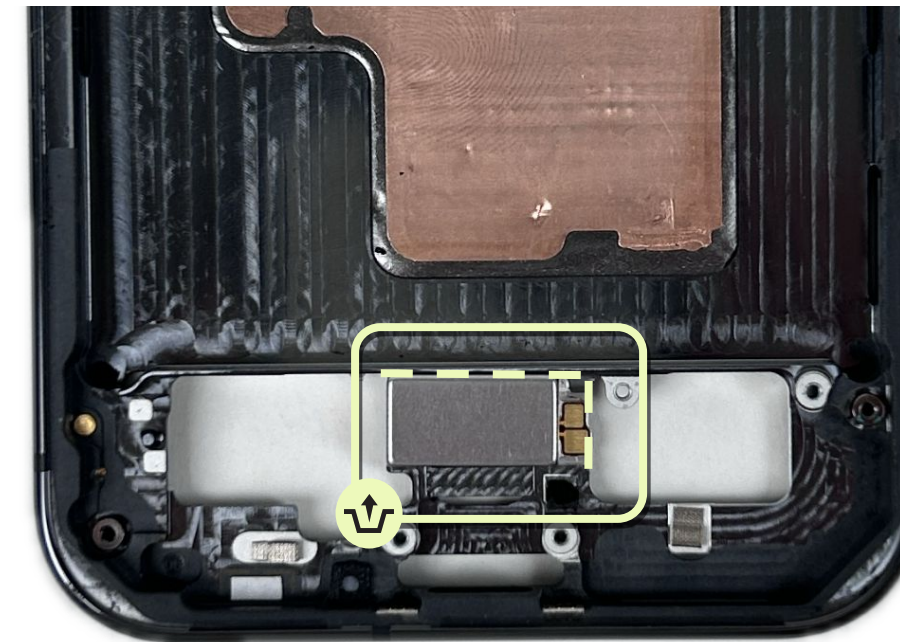
Part: G806-13155-00 (Vibrator adhesive)



Assemble the vibrator

- Tear off the liner, align the **vibrator** to the enclosure by the dotted line as shown in the figure.
- Press for **5 seconds** manually.

Part: G710-05528-01 (Vibrator)



Attach the vibrator pad

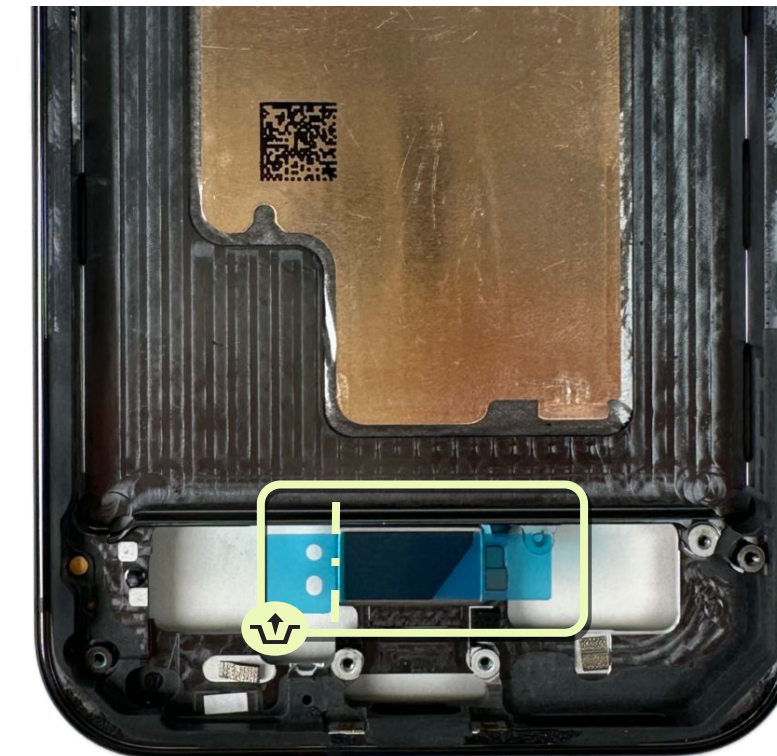
Stick the **vibrator pad** to the designated position.
Align with the left edge of the **vibrator**. Tear off the liner.


Part: G806-12056-02 (Vibrator pad)



Use caution

If the vibrator pad has no damage or breaks it can be reused.



 Assembly
instructions

Bottom speaker

Lubricate the area

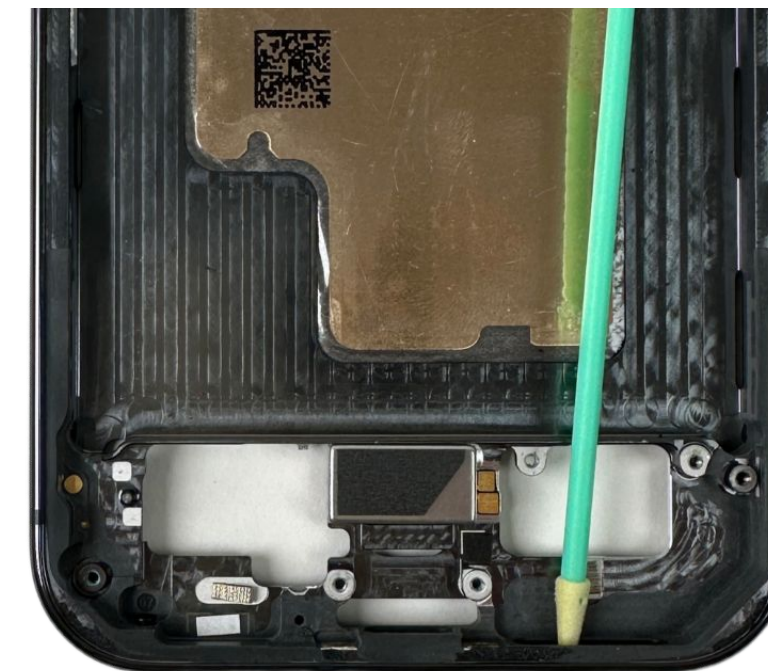
Apply **Sankol lubricant CFD 409Z_V2** with a **dust-free cotton swab** around the **bottom speaker slot**.

Part: Multiple part numbers (Enclosure)



Note

Bend the **dust-free cotton swab** to go inside the slot for thorough application.



Assemble the bottom speaker

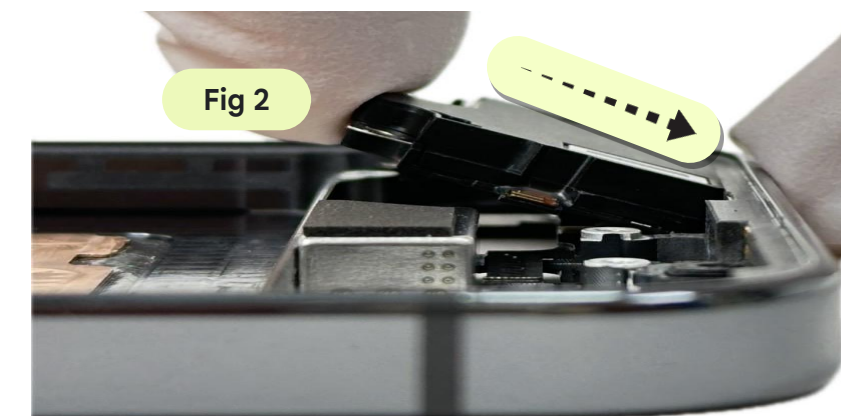
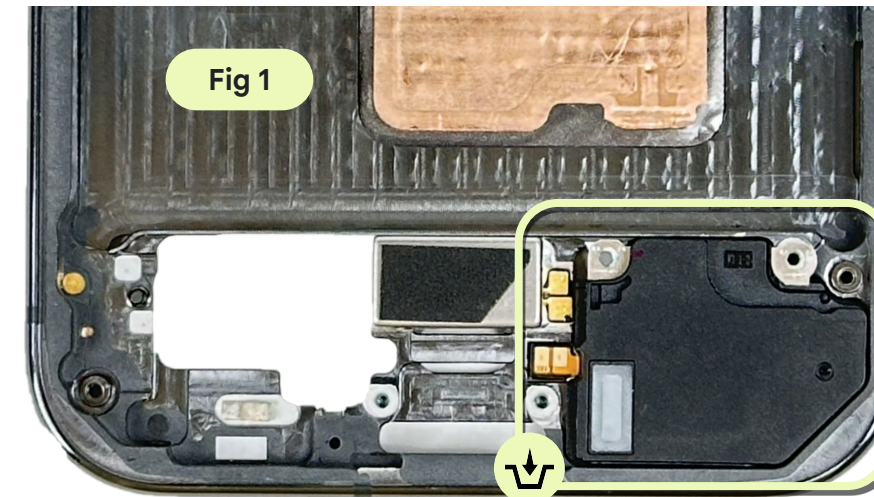
- Tear off the liner and slot the **bottom speaker** into the **enclosure** as shown in Fig 1.
- Insert the **bottom speaker** at an angle as shown in Fig 2.


Part: G863-00559-02 (Bottom speaker)



Note

Make sure that the **bottom speaker** goes under the enclosure rim.



 Assembly
instructions

Chin board

Check the chin board



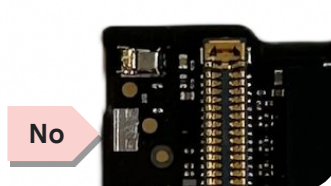
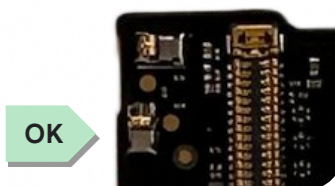
Use caution

Before you assemble the MLB, check for spring deformation.

Pay **extra attention** to the springs during assembly to avoid damage to them.

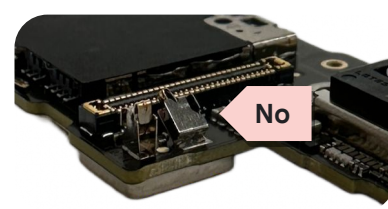
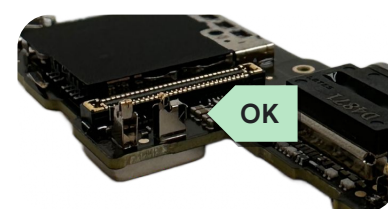
General rules

Bird view

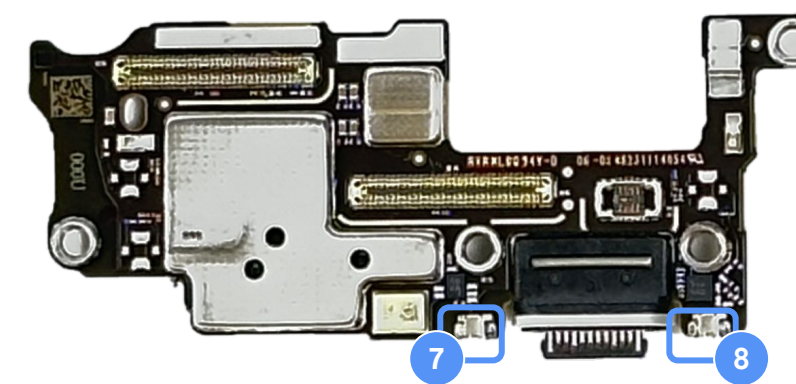
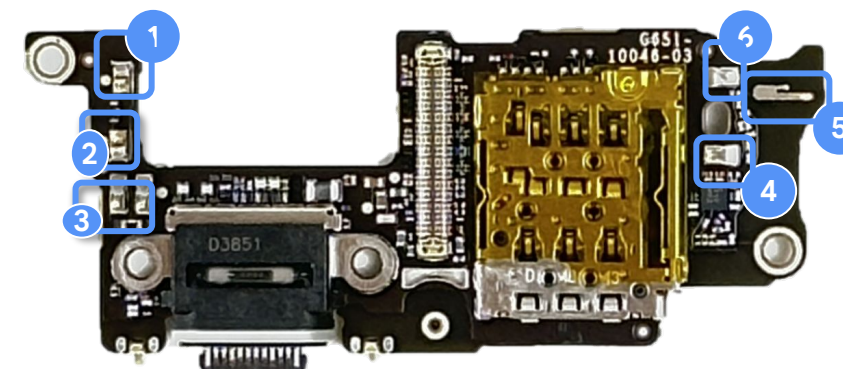


Missing

Side view



Broken



Assemble the chin board

- Peel off the **mic protective liner** before assembling **chin board** as shown in Fig 1.
- Assemble the **chin board** to the **enclosure** at an angle as shown in Fig 2.

Part: G949-01028-00 (Chin board)



Use caution

Be careful to avoid damage to components on the **chin board**.

Make sure that the **all liners** are removed when you replace it with a new **enclosure** or a **chin board**.



Note

*Don't wear gloves when you handle the **chin board**.*

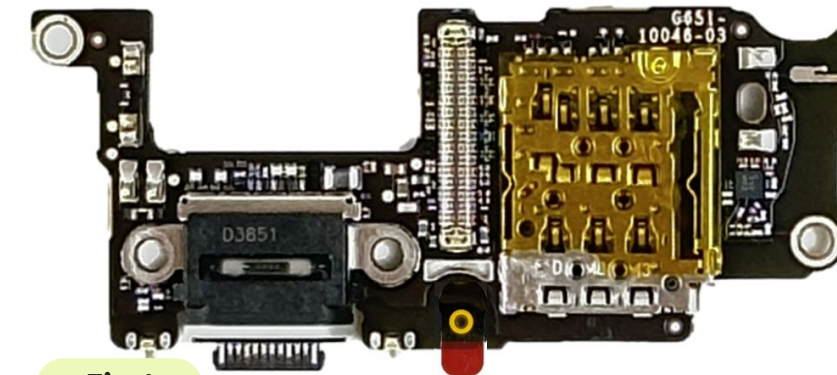


Fig 1

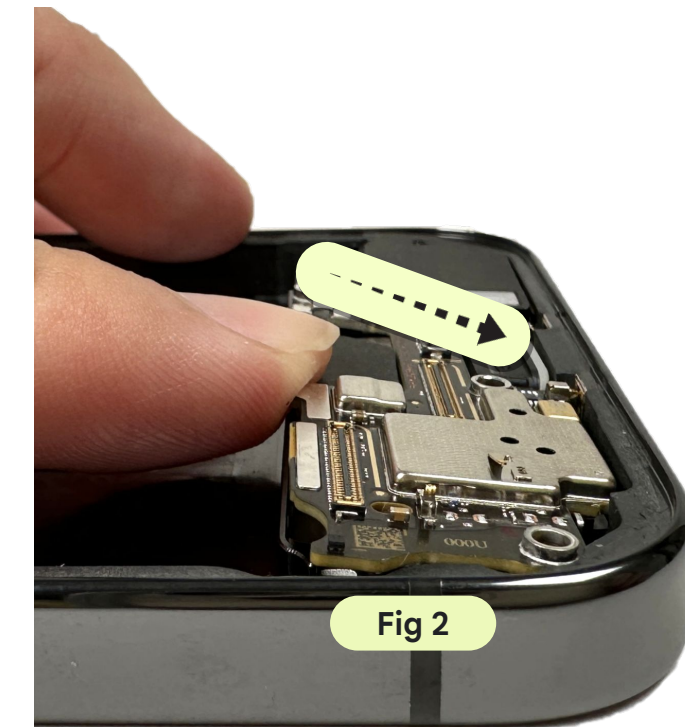
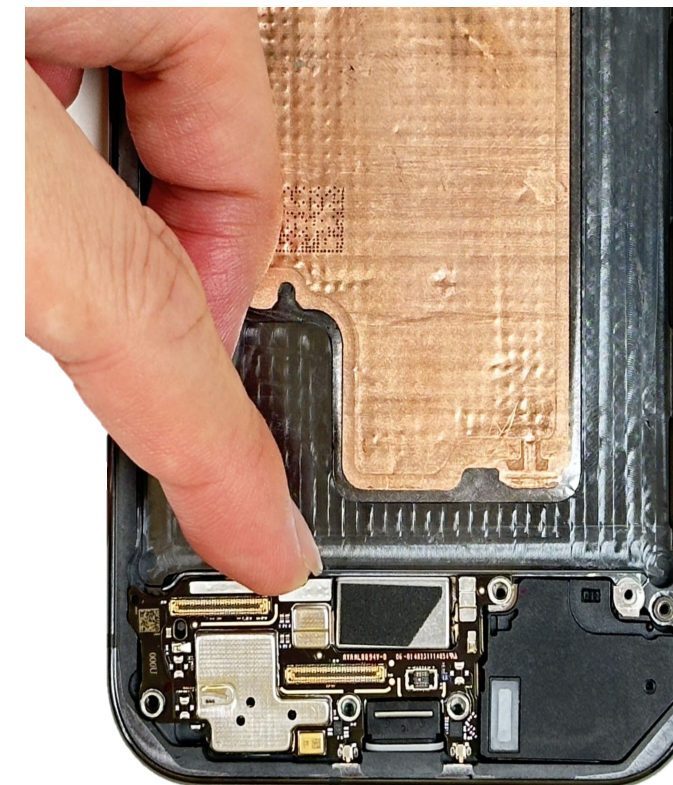
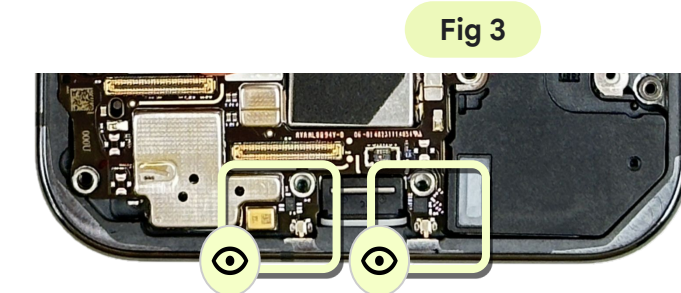
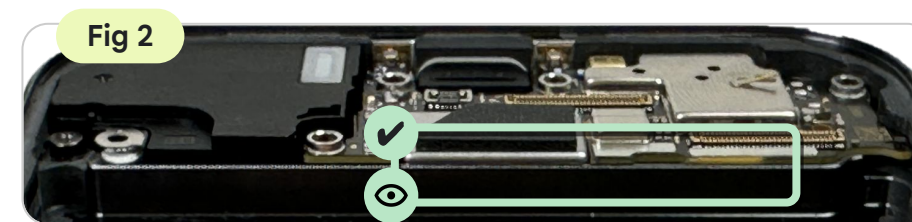
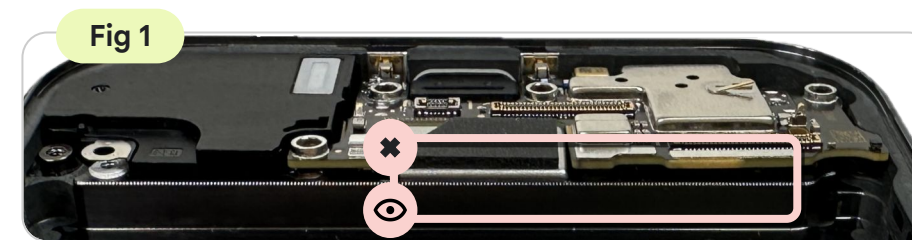


Fig 2

Check the seating

- Press the **chin board** down. It should sit against the retaining wall as shown in Fig 1 and Fig 2.
- Make sure that the **two springs** are in contact with the metal sheet from the **enclosure** as shown in Fig 3.



Insert the SIM tray

Lightly hold the **chin board** and insert the **SIM tray**.

Part: Multiple part numbers (SIM tray)



Use caution

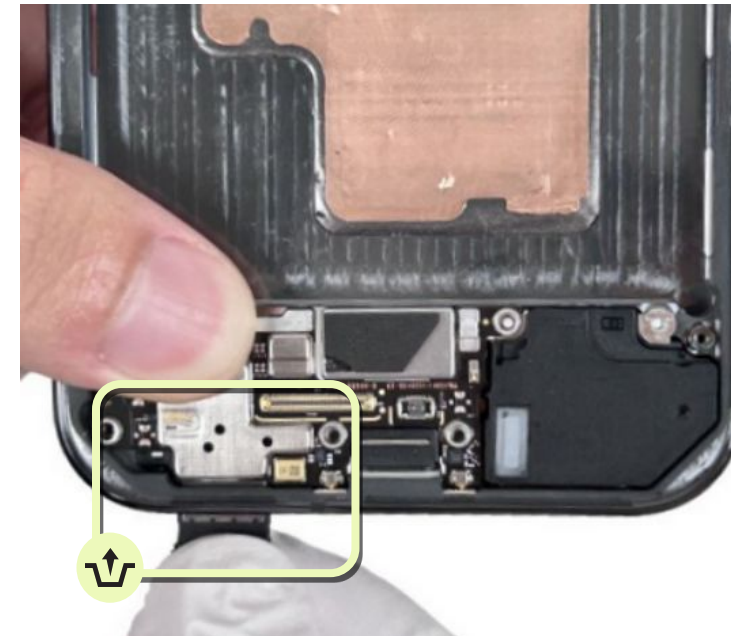
Be careful to avoid damage to the components on the **chin board**.

Pay attention to the **SIM tray** direction when assembly.



Note

Don't wear gloves when you handle the **chin board**.



Fasten the screws

Fasten the **two chin board screws** in a sequence with the **torx plus 3IP screwdriver**.

Part: G250-07219-00 (Screw)



Use caution

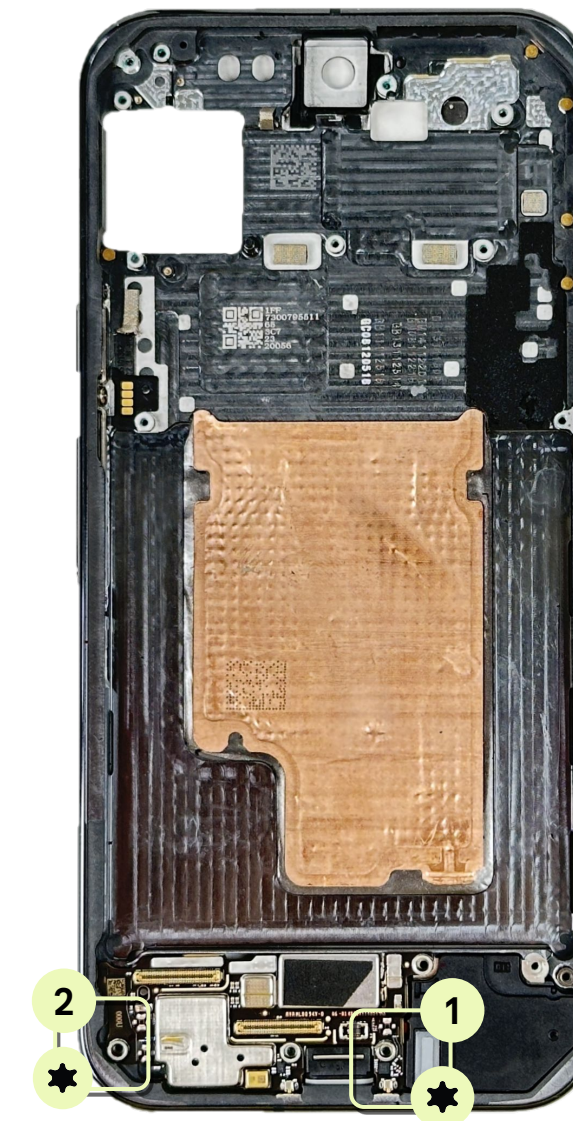
Be careful when you use the screwdriver.


Incorrect use of the screwdriver could cause injury to you or others or the product.



Note

Torque force: 1.5 ± 0.03 kgf-cm



 Assembly
instructions

Display

Check the enclosure



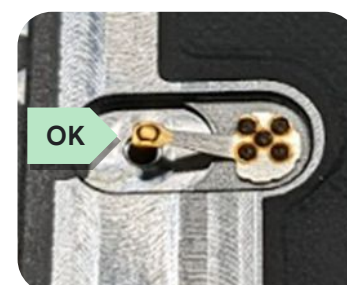
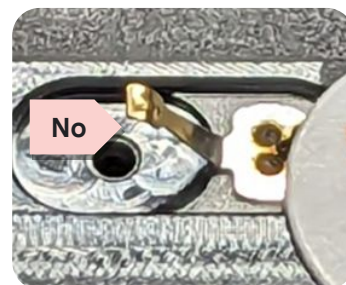
Use caution

Before you assemble the display, check for the **enclosure's springs** and the **FoF** deformation.

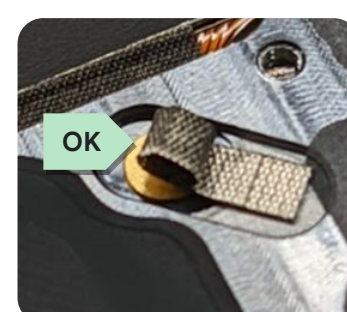
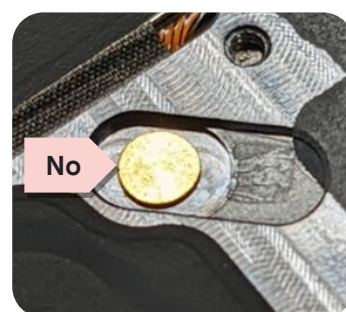
Pay **extra attention** to the springs during assembly to avoid damage to them.

General rules

Spring



FoF



Reuse the enclosure

- Inspect the **enclosure** for adhesive residue.
- It's recommended to carefully and slowly peel off the adhesive by hand in one piece. Use the **ESD spudger** to clean it.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: Multiple part numbers (Enclosure)

Use caution

Heat plate is a hot surface. Use caution as it could cause burns.

Note

Place the device on a **heat plate** at 140°F (60°C) for remove adhesive easily.

Don't heat more than 10 mins.



Apply the primer on the enclosure

- Apply **IPA** around the edges of the **enclosure** with a **dust-free cotton swab**.
- Apply **3M 111 primer** around the edges of the **enclosure** with a **dust-free cotton swab** for one round.


Part: Multiple part numbers (Enclosure)



Use caution

After the **primer** is applied, complete assembly in 25 minutes.



 Assembly instructions

Display

Solution 1: Reuse the display

Solution 1: Reuse the display ✨

Reuse the display

- Inspect the **display** for adhesive residue.
- It's recommended to carefully and slowly peel off the adhesive by hand in one piece.
- Use the **ESD spudger** to clean it.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: G949-01011-00 (Display module)

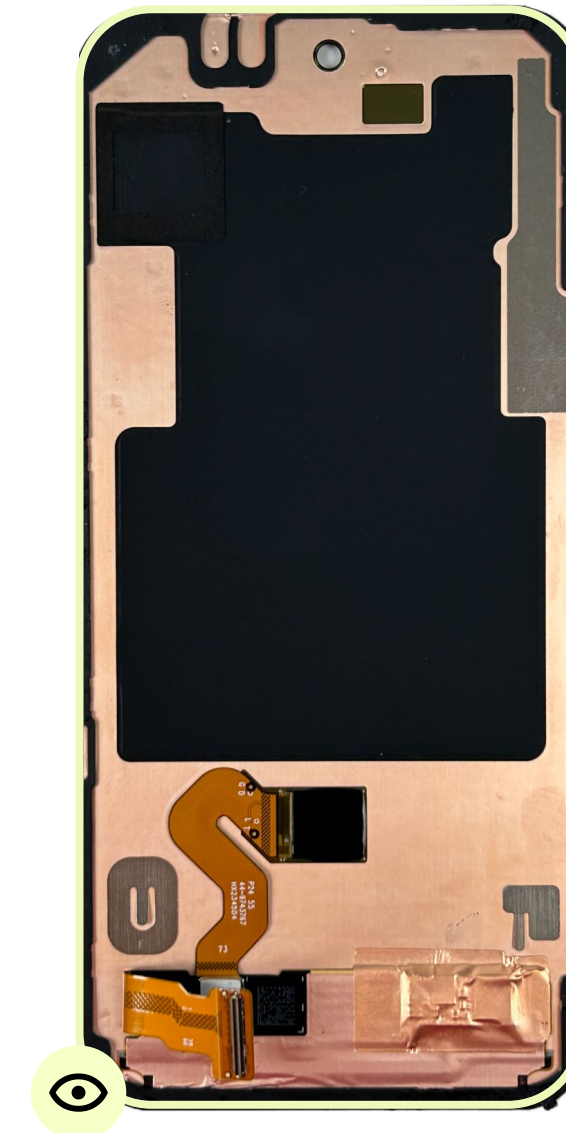
⚠ Use caution

Heat plate is a hot surface.
Use caution as it could cause burns.

💡 Note

Place the device on a **heat plate** at 140°F (60°C) for remove adhesive easily.

Don't heat more than 10 mins.



Solution 1: Reuse the display ✨

Remove the liner

Slowly remove the **liner** from the **display adhesive**.

Part: G806-09665-92 (Display adhesive)



Use caution

Don't touch the adhesive.

If it gets dirty, change to another one.



Solution 1: Reuse the display ✖

Align the adhesive

Place the **adhesive** according to the outline of the **enclosure** as shown in Fig 1 and Fig 2.



Use caution

Don't touch the adhesive.

If it gets dirty, change to another one.

Pay **extra attention** to the springs during assembly to avoid damage to them.



Note

Make sure that the **adhesive** fits in the **enclosure** as shown in Fig 2 .



Fig 1



Fig 2

Solution 1: Reuse the display ✖

Activate the adhesive (first time)

Gently press around the edges with the **ESD spudger** to enhance bond between the **enclosure** and the **adhesive**.



Solution 1: Reuse the display ✨

Remove the liner (first layer)

Pull the tab carefully to remove the **first layer**.
Avoid lifting the adhesive.



Use caution

Don't remove the second layer of the liner.



Solution 1: Reuse the display ✨

Activate the adhesive (second time)

Gently press around the edges with the **ESD spudger** to enhance the bond between the **enclosure** and the **adhesive**.



Solution 1: Reuse the display ✖

Apply primer on the display

- Apply **IPA** around the edges of the **display module** with a **dust-free cotton swab**.
- Apply **3M 111 primer** around the edges of the **display module** with a **dust-free cotton swab** for one round.

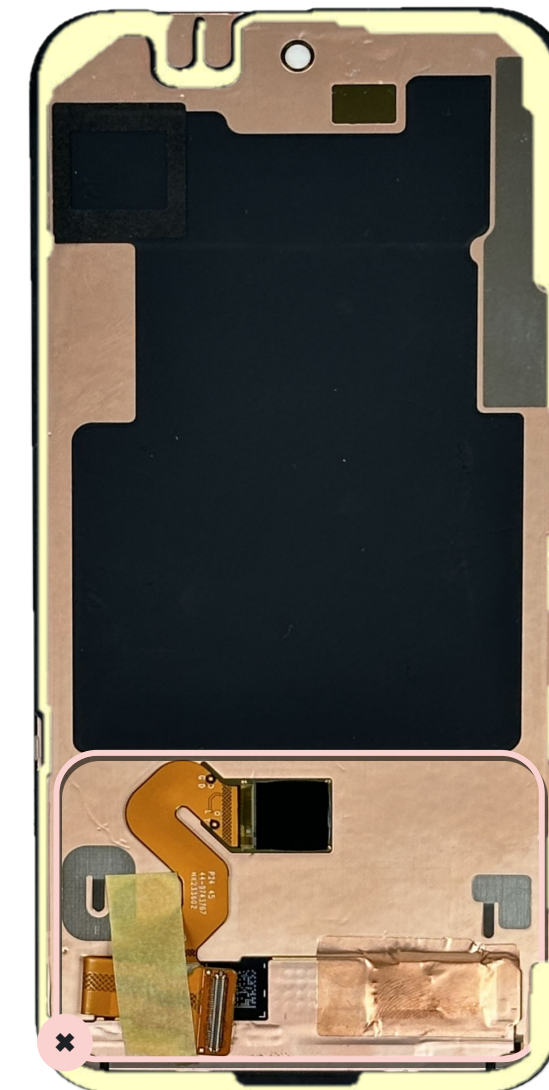
Part: G949-01011-00 (Display module)



Use caution

When you apply IPA and AP111 primer to the display module, avoid touching the copper and the sponge areas.

After the primer is applied, complete assembly in 25 minutes.



Solution 1: Reuse the display ✨

Connect the display

- Use the **suction bulb** to prop up the **display module**.
- Connect the **display flex** to the **chin board**, apply even pressure across the connector to ensure it's fully engaged.



Use caution

Pressure should be applied straight downward on the connector, not against any part of the flex.



Note

Avoid damage to the springs especially near where the display contacts the enclosure.

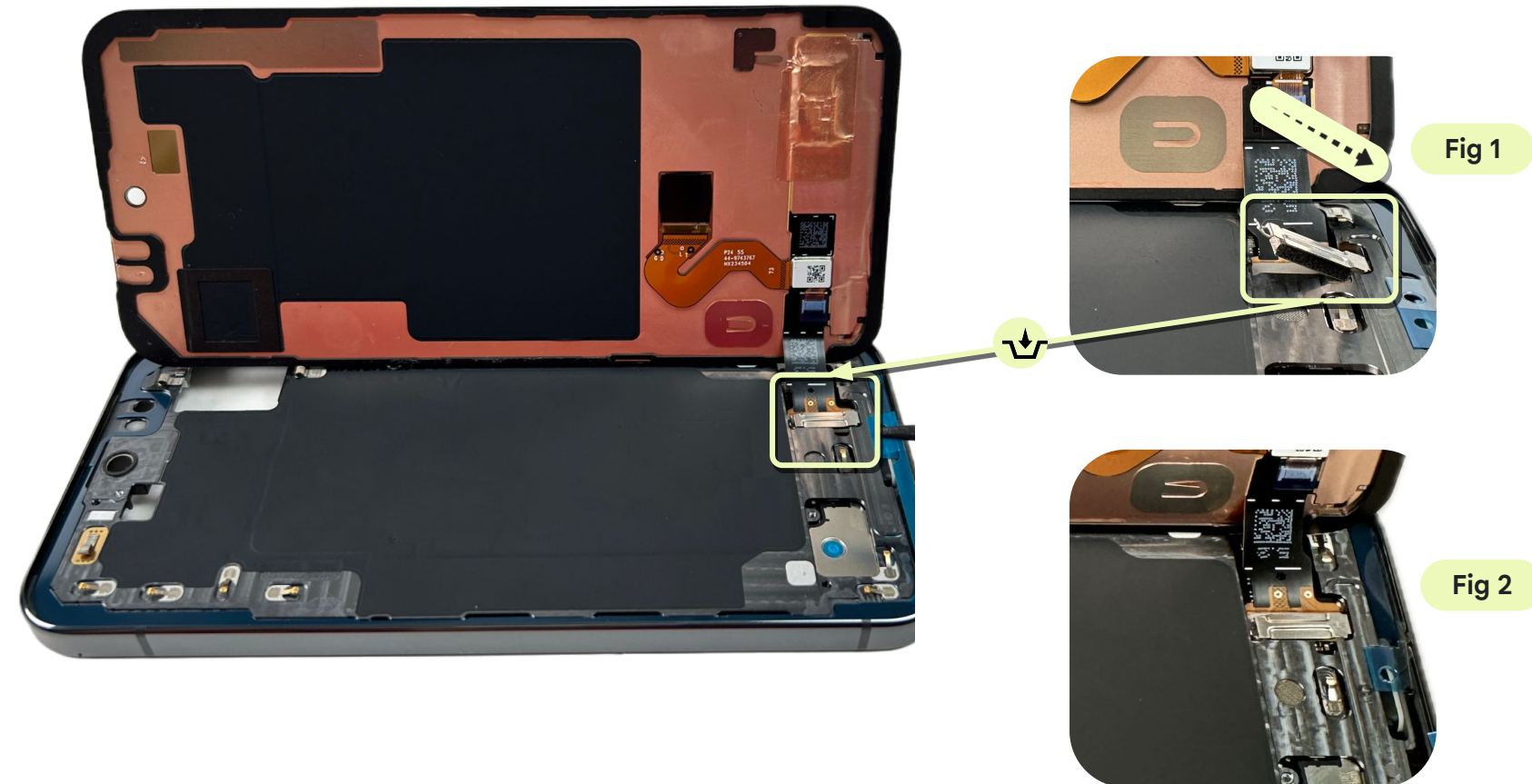


Solution 1: Reuse the display ✨

Assemble the display cowling

- Insert a **display cowling** to the **right side** as shown in Fig 1.
- Assemble it thoroughly over the **connector** as shown in Fig 2.

Part: G730-08475-06 (Display cowling)



Solution 1: Reuse the display ✨

Remove the liner

Carefully peel the **PSA liner** off with **ESD tweezers**.



Solution 1: Reuse the display ✖

Attach the display


- Attach the **display module** onto the **enclosure** vertically.
- Press around the **display bezel** with both hands.

Use caution

Press the center of the top side first, followed by the two longer sides and the bottom side.

When you only repair the **display**, ensure that you follow the press steps on the following two **pages**.



 Assembly
instructions

Display

Solution 2: Use a new display sub

Solution 2: Use a new display sub ✖

Remove the film

Remove all the **films** on the **display module**.

Part: G949-01011-00 (Display module)



Use caution

Make sure all the **films** are removed.



Solution 2: Use a new display sub ✖

Connect the display

- Use the **suction bulb** to prop up the **display module**.
- Connect the **display flex** to the **chin board**, apply even pressure across the connector to ensure it's fully engaged.



Use caution

Avoid scratching the outside of the display flex against the **enclosure**.

Pressure should be applied straight downward on the connector, not against any part of the flex.



Note

Avoid damage to the springs especially near where the display contacts the enclosure.

Solution 2: Use a new display sub ✖

Assemble the display cowling

- Insert a **display cowling** to the **right side** as shown in Fig 1.
- Assemble it thoroughly over the **connector** as shown in Fig 2.

Part: G730-08475-06 (Display cowling)



Use caution

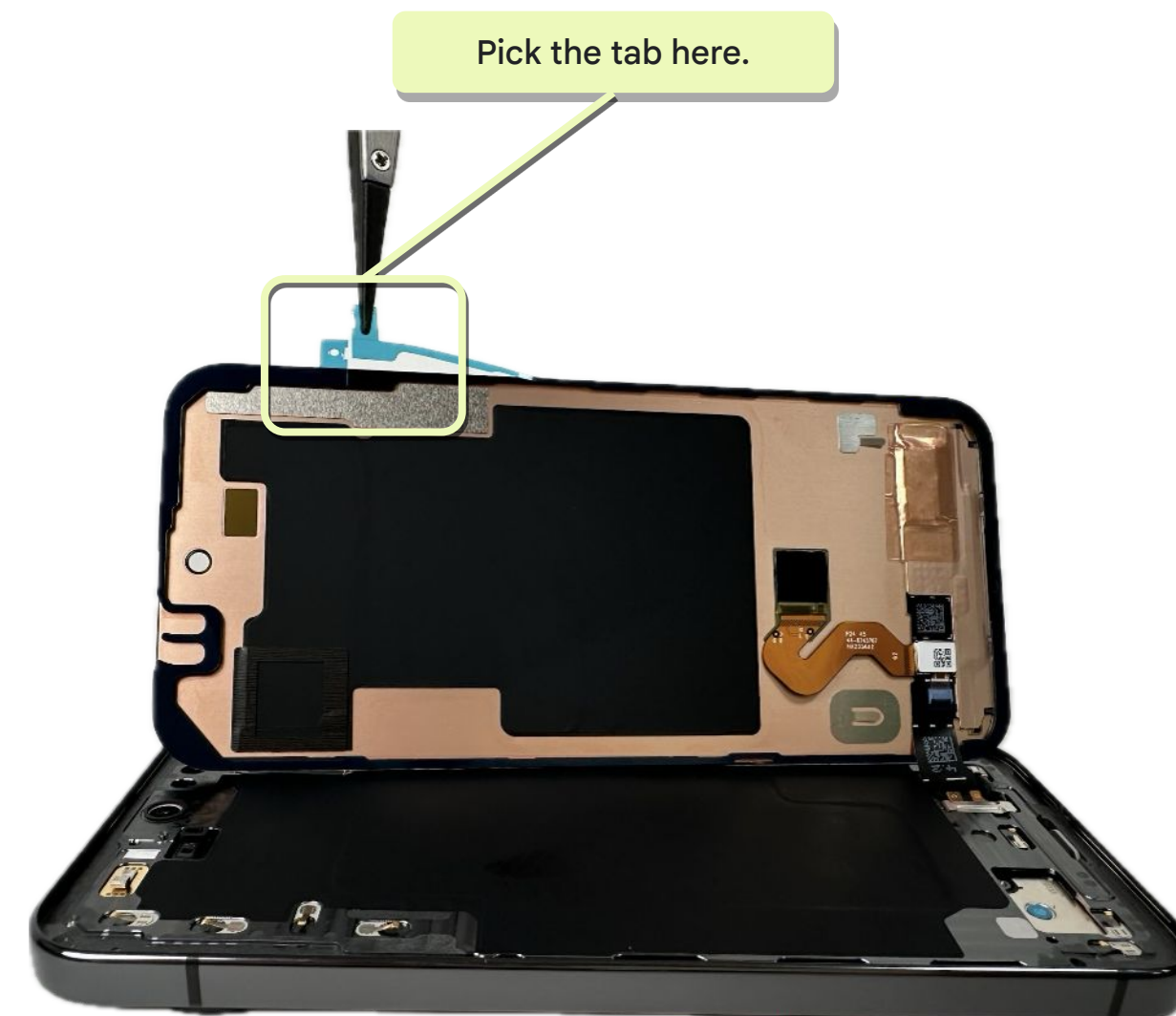
Avoid scratching the outer surface of the flex against the **enclosure**.



Solution 2: Use a new display sub ✖

Remove the liner

Carefully peel the **PSA liner** off with **ESD tweezers**.



Solution 2: Use a new display sub ✖

Attach the display

- Attach the **display module** onto the **enclosure** vertically.
- Press around the **display bezel** with both hands.




Use caution

Press the center of the top side first, followed by the two longer sides and the bottom side.

When you only repair the **display**, ensure that you follow the press steps on the following two **pages**.



 Assembly
instructions

Battery

Apply the primer on the enclosure

- Before installation, remove any debris or loose screws from the **enclosure**.
- Apply **IPA** on the **enclosure** with a **dust-free cotton swab**.
- Apply **3M 111 primer** (per product instructions) on the **enclosure** with a **dust-free cotton swab** for one time.

Part: Multiple part numbers (Enclosure)



Use caution

After the primer is applied, complete assembly in 25 minutes.



Align the battery

- Place the **0.15 mm feeler gauge** against the **right wall**.
- Use a **suction bulb** to pick up the **battery** and remove the liner.
- Align the **battery** with the **dashed lines** as shown in Fig 1.
- Gently press the **battery** down with the **suction bulb**.

Part: G949-01033-00 (Battery)



Use caution

Don't skip this step.

Battery spacing is critical for product performance.

Use extra care to align correctly.



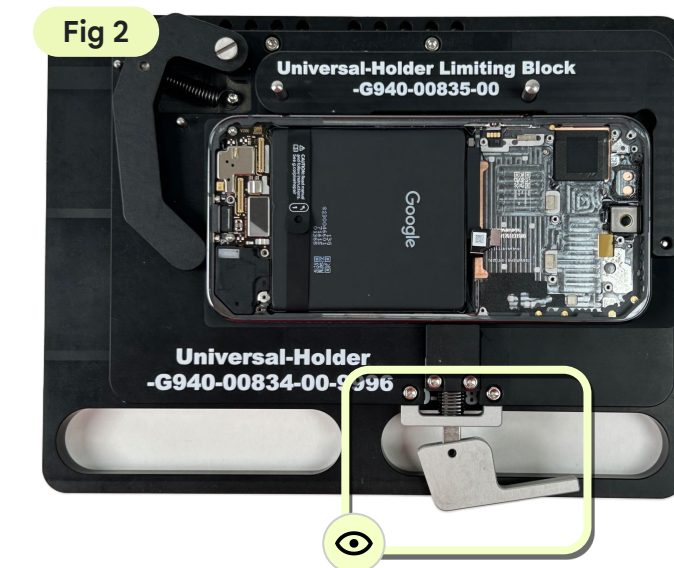
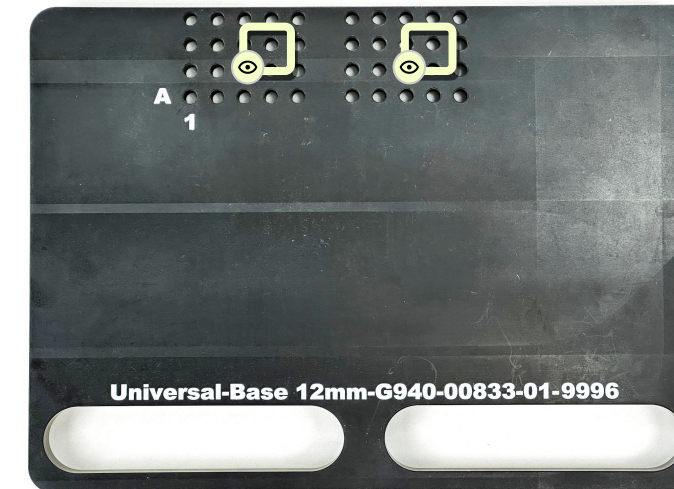
Prepare to press

- Place the **Pixel universal holder** in the **C4 position** on the **Pixel universal base**.
- Place the **Pixel universal supporting rubber** and the **Pixel universal holder limiting block** on the **Pixel universal holder** in a sequence as shown in Fig 1.
- Place the **device** and **lock** it as shown in Fig 2.
- Place the **Pixel 9 Pro XL battery press rubber** as shown in Fig 3.



Note

Make sure that the Pixel universal holder is in the right position. Ensure that the display is already assembled.



Place in the fixture

- Place the **universal press plate 12 mm** on the **universal base** as shown in Fig 1.
- Place the stack in the **universal press fixture**.
- Press the handle down for **10 seconds**.
- Restore the handle to the original position and remove the device.




Use caution

Pinch point.

Keep hands clear during operation.



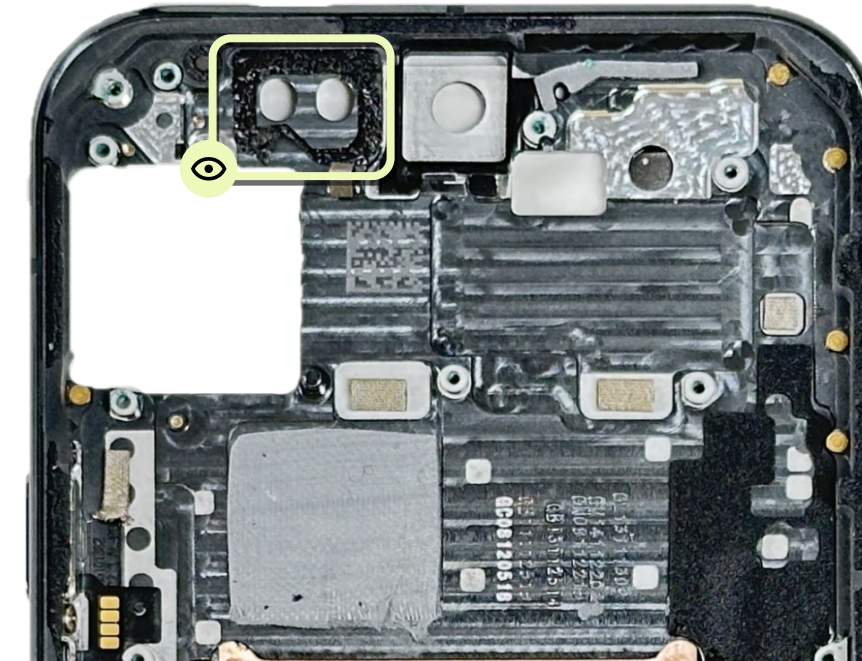
 Assembly
instructions

Top speaker

Clean the enclosure

- Clean the residue on the **enclosure** with **ESD tweezers**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

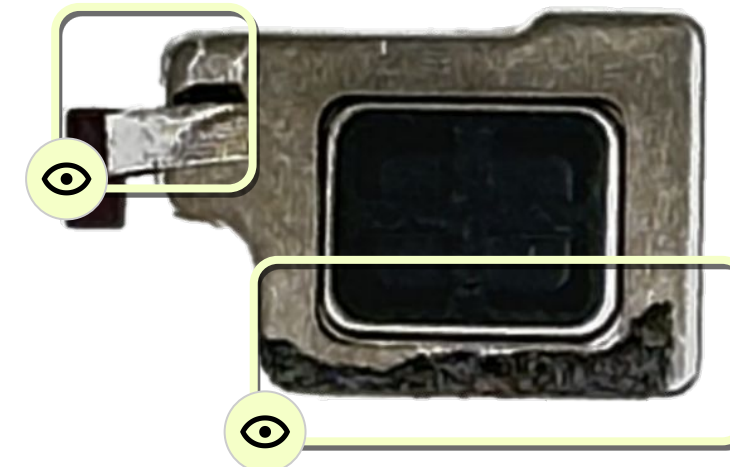
Part: Multiple part numbers (Enclosure)



Reuse the top speaker

- Clean the residue on the **top speaker** with **ESD tweezers**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: G863-00553-00 (Top speaker)



Attach the top speaker adhesive

Attach the **top speaker adhesive** to the enclosure with **ESD tweezers**.

Parts: G806-11891-01 (Top speaker adhesive)



Attach the FoF

- Align from the line on the enclosure as shown in Fig 1.
- Attach the **FoF** with **ESD tweezers** as shown in Fig 2.

Parts: G806-11578-00 (FoF)



Note

Undamaged **FoF** can be reused.
Otherwise, they may need to be replaced.

Fig 1

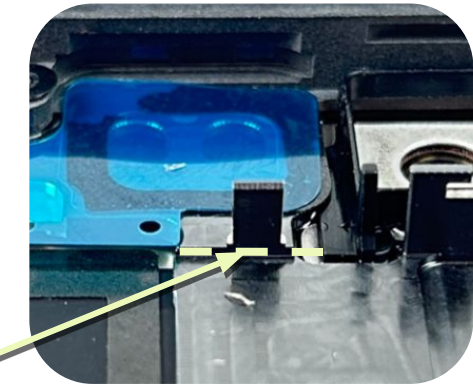
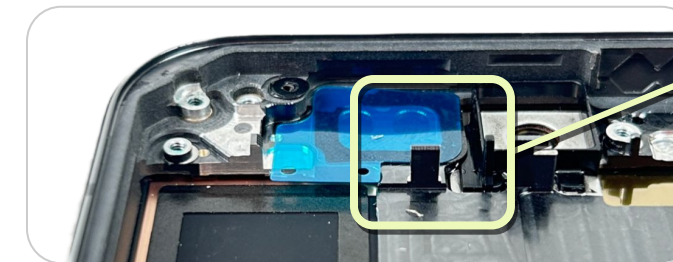
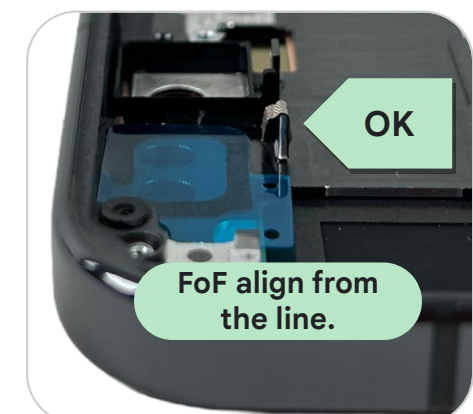
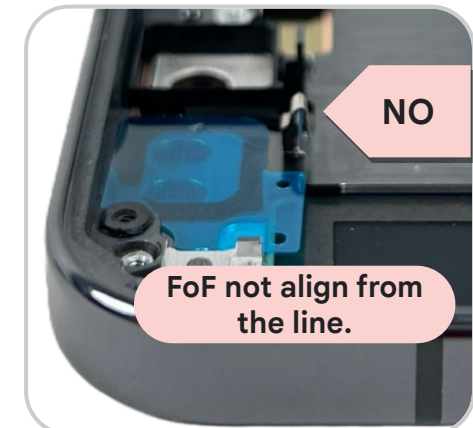
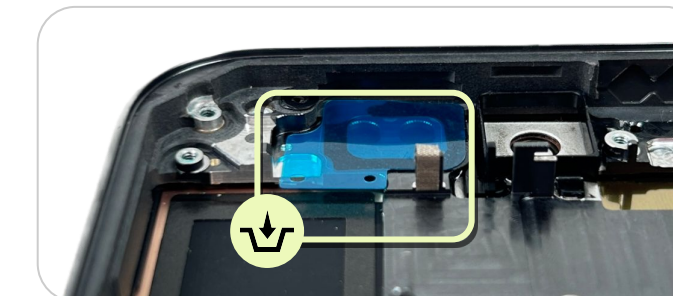


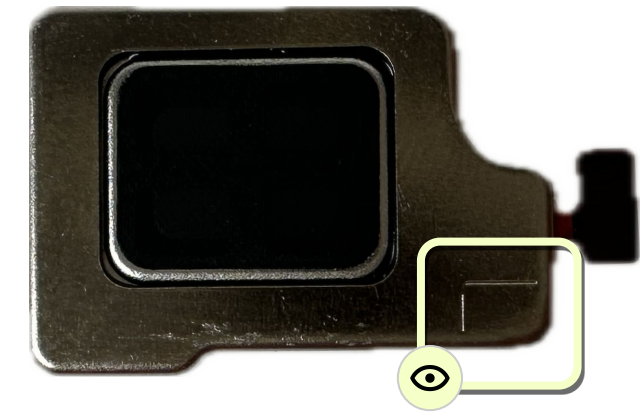
Fig 2



Attach the top speaker FoF

Stick the **top speaker FoF** to the designated position on the **top speaker** with **ESD tweezers**.

Part: G806-11577-00 (Top speaker FoF)



Assemble the top speaker

- Tear off the liner and align the **top speaker** with the **dashed line** as shown in Fig 1.
- Insert the **top speaker** at an angle as shown in Fig 2.
- Press for **6 seconds** manually.

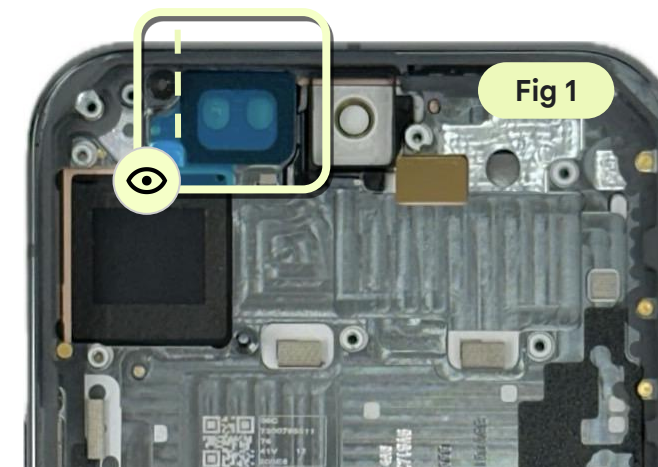
Part: G863-00553-00 (Top speaker)



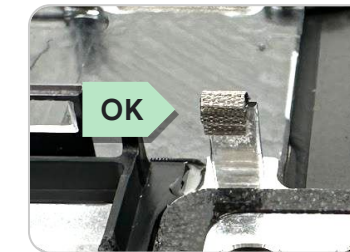
Use caution

Be careful not to damage the **FoF** when assembly.

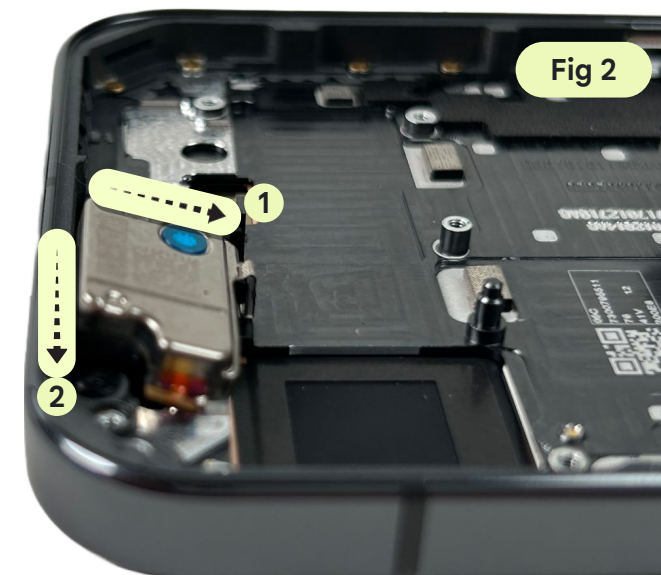
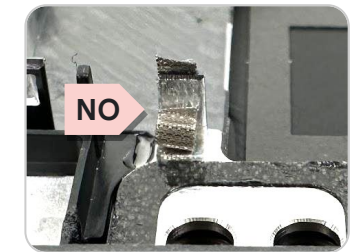
Make sure that the **top speaker FoF** isn't under the **top speaker**.



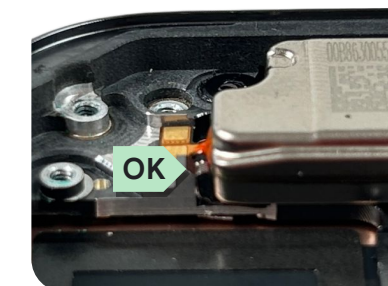
FoF adhered to the wall.



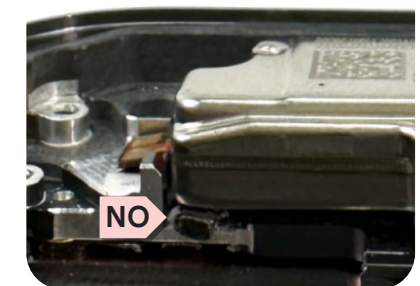
FoF *Don't* adhere to the wall.



Top speaker FoF is between the top speaker and the wall.



Top speaker FoF is under the top speaker.



↘ ↙ Assembly
↗ ↖ instructions

Rear camera

Reuse the rear camera

- Clean the residue on the **rear camera** with an **ESD tweezers**.
- Use a **dust-free cloth** with **IPA** to clean the surface if needed.

Part: G949-01032-00 (Rear camera)



Use caution

Be careful to avoid touching the **rear camera lens**.



Check the logic board

Use caution

Before you assemble the **rear camera**, check for spring deformation.

Pay **extra attention** to the springs during assembly to avoid damage to them.

General rules

Springs

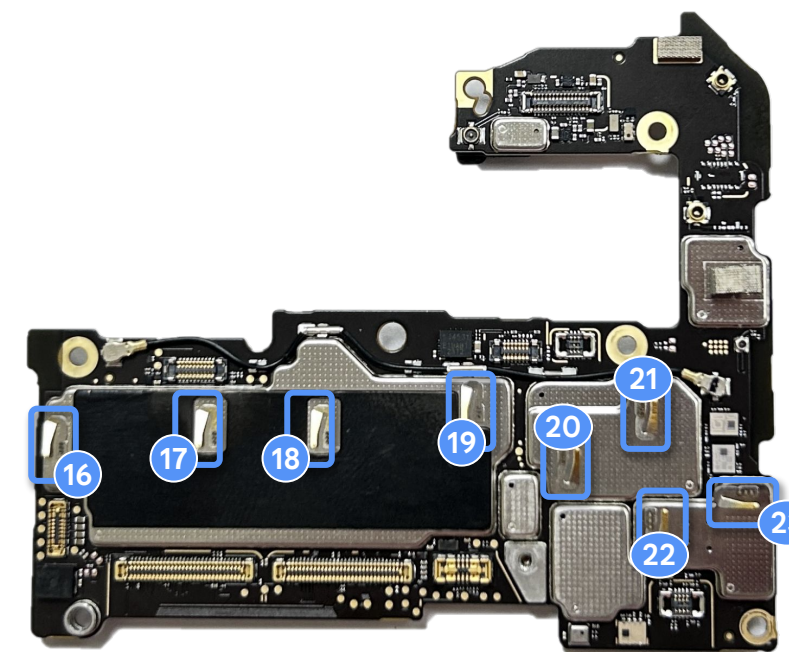
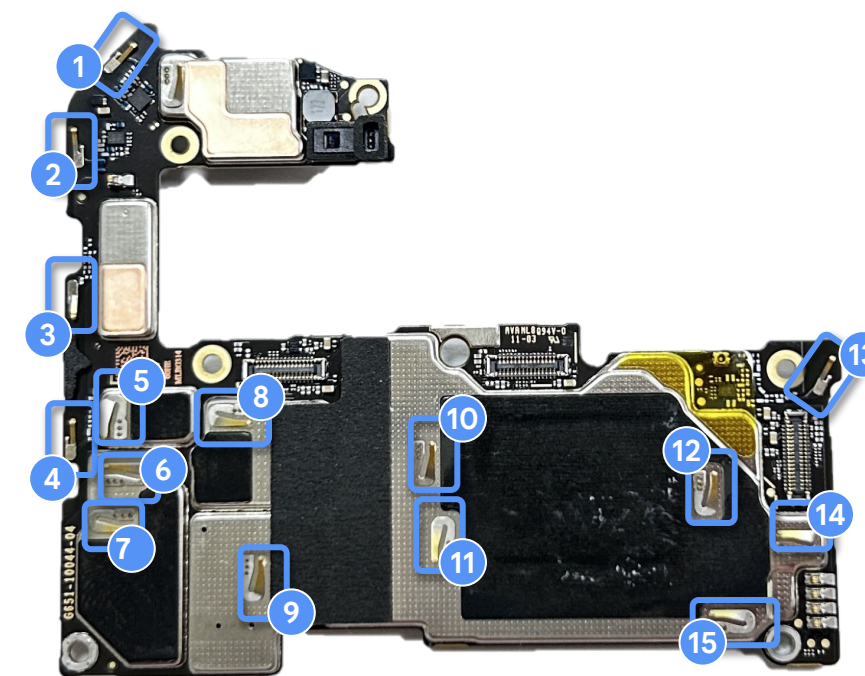


Deformation

Pins



Deformation



Buckle the cable

Buckle the **ANT4 coaxial cable connector** to the **logic board**.

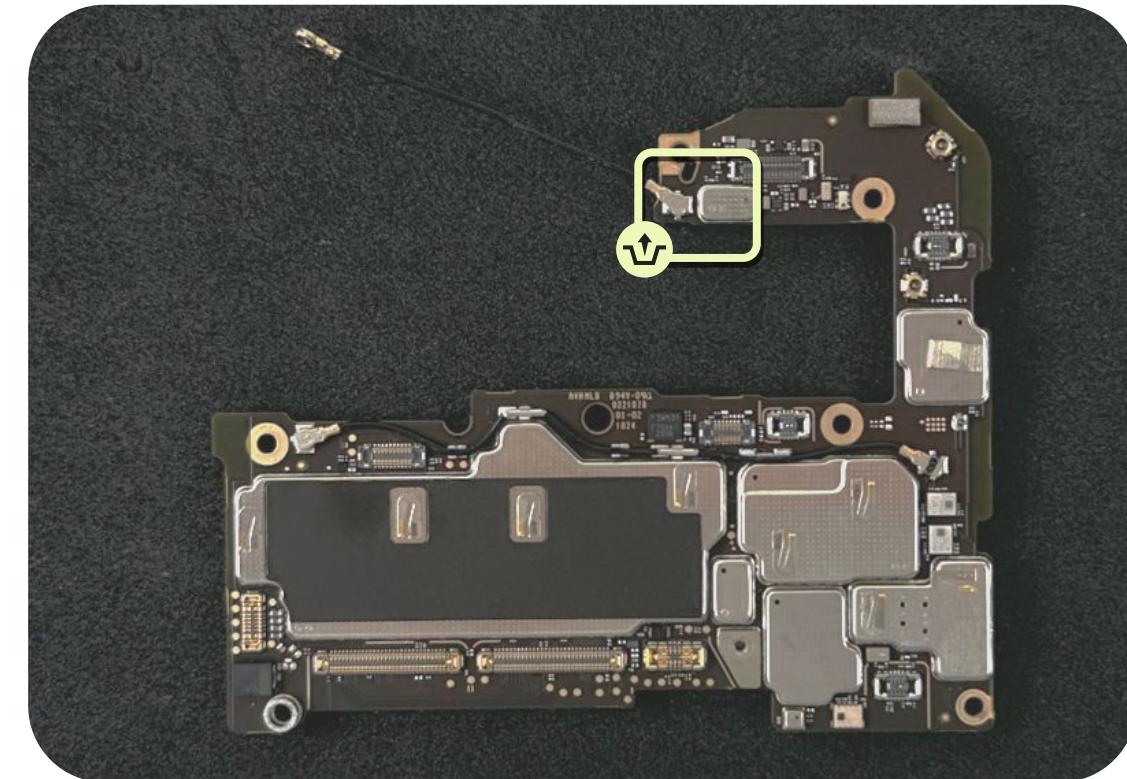
Part: G821-00924-00 (Cable)



Note

Don't reuse the part.

This step should be carried out on a soft surface such as an EVA sponge.



Assemble the rear camera

Assemble the **rear camera** to the **logic board** at an angle.

Part: G949-01032-00 (Rear camera)

Part: Multiple part numbers (Logic board)



Use caution

Be careful to avoid damage to components on the **logic board**.

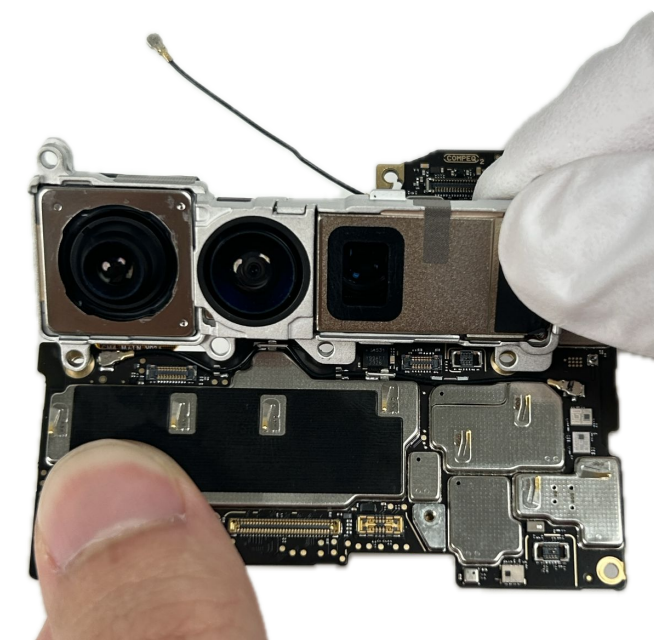


Note

Don't wear gloves when you handle the **logic board**.

Don't touch the **rear camera lens**.

Assemble toward



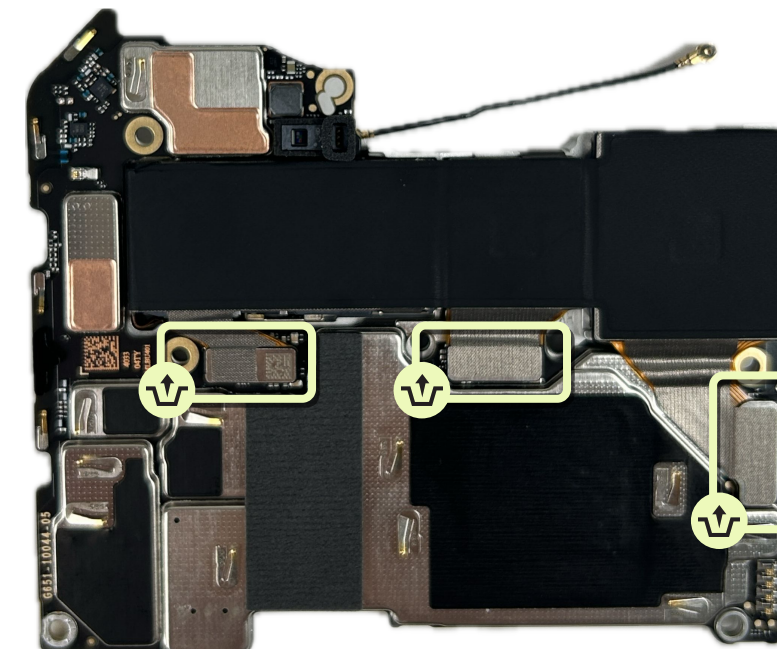
Buckle the rear camera


Buckle the **three rear camera connectors** to the **logic board**.



Note

Check every connector is fully attached to the logic board.



 Assembly
instructions

Logic board

Check the logic board

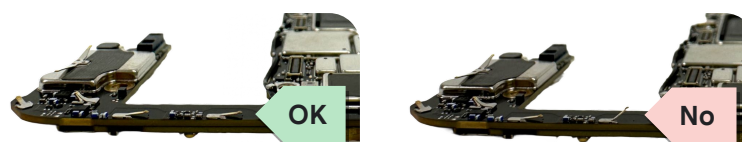
Use caution

Before you assemble the **rear camera**, check for spring deformation.

Pay **extra attention** to the springs during assembly to avoid damage to them.

General rules

Springs

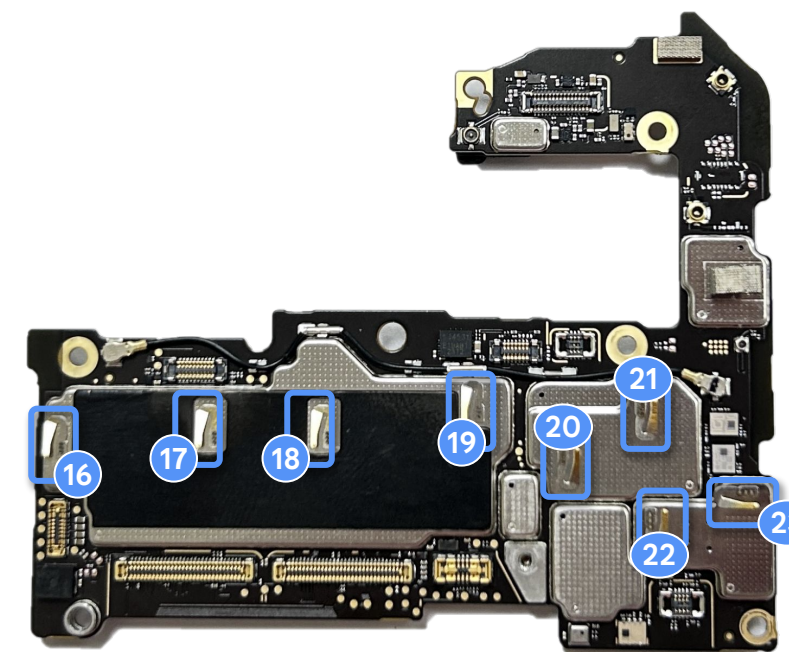
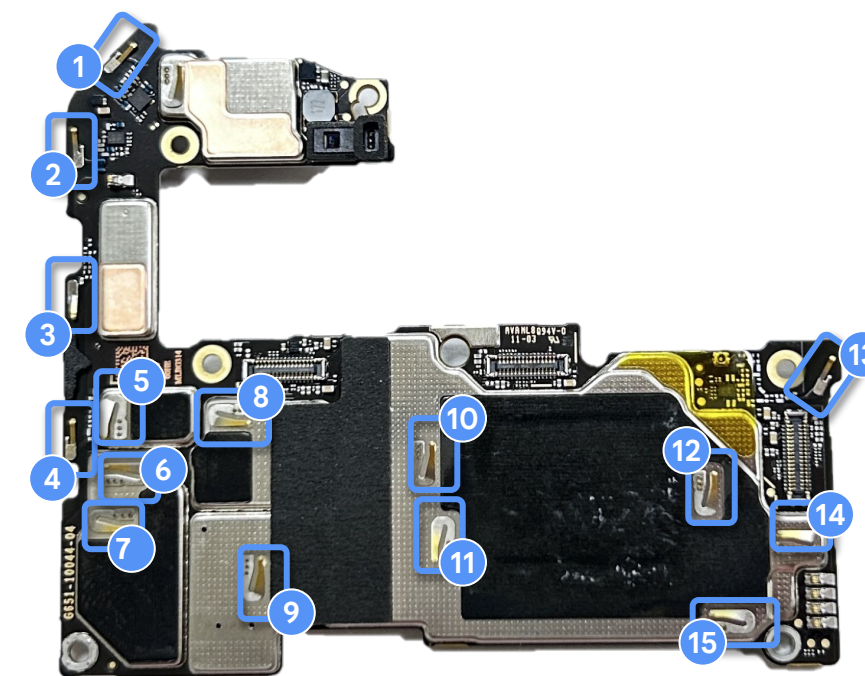


Deformation

Pins



Deformation



Reuse the logic board

- Clean any **SOC TIM** residue from the **logic board** with the **ESD spudger**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

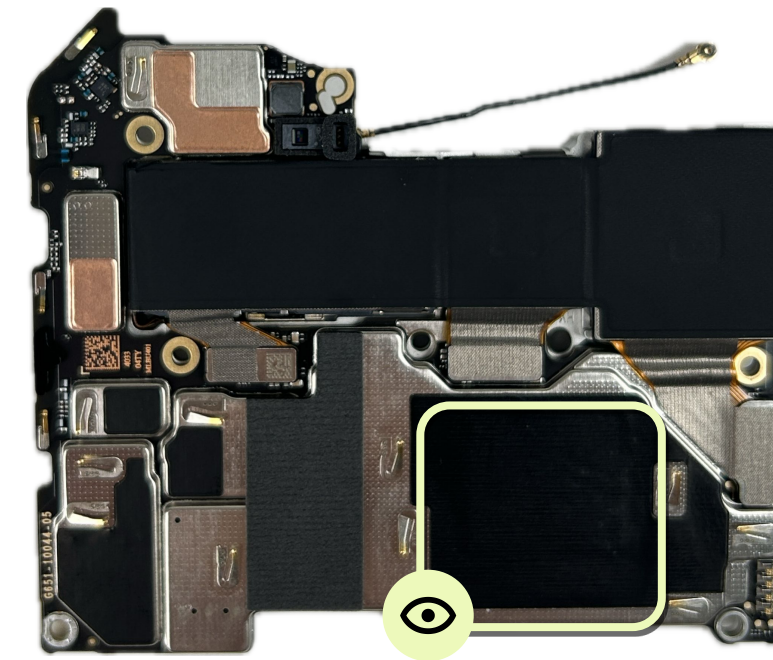
Part: Multiple part numbers (Logic board)



Note

Undamaged **SOC TIM** can be reused.

Otherwise, they may need to be replaced.



Attach the p-sensor foam

Attach the **p-sensor loam** to the **logic board** with **ESD tweezers**.

Part: G806-10419-05 (P-sensor foam)

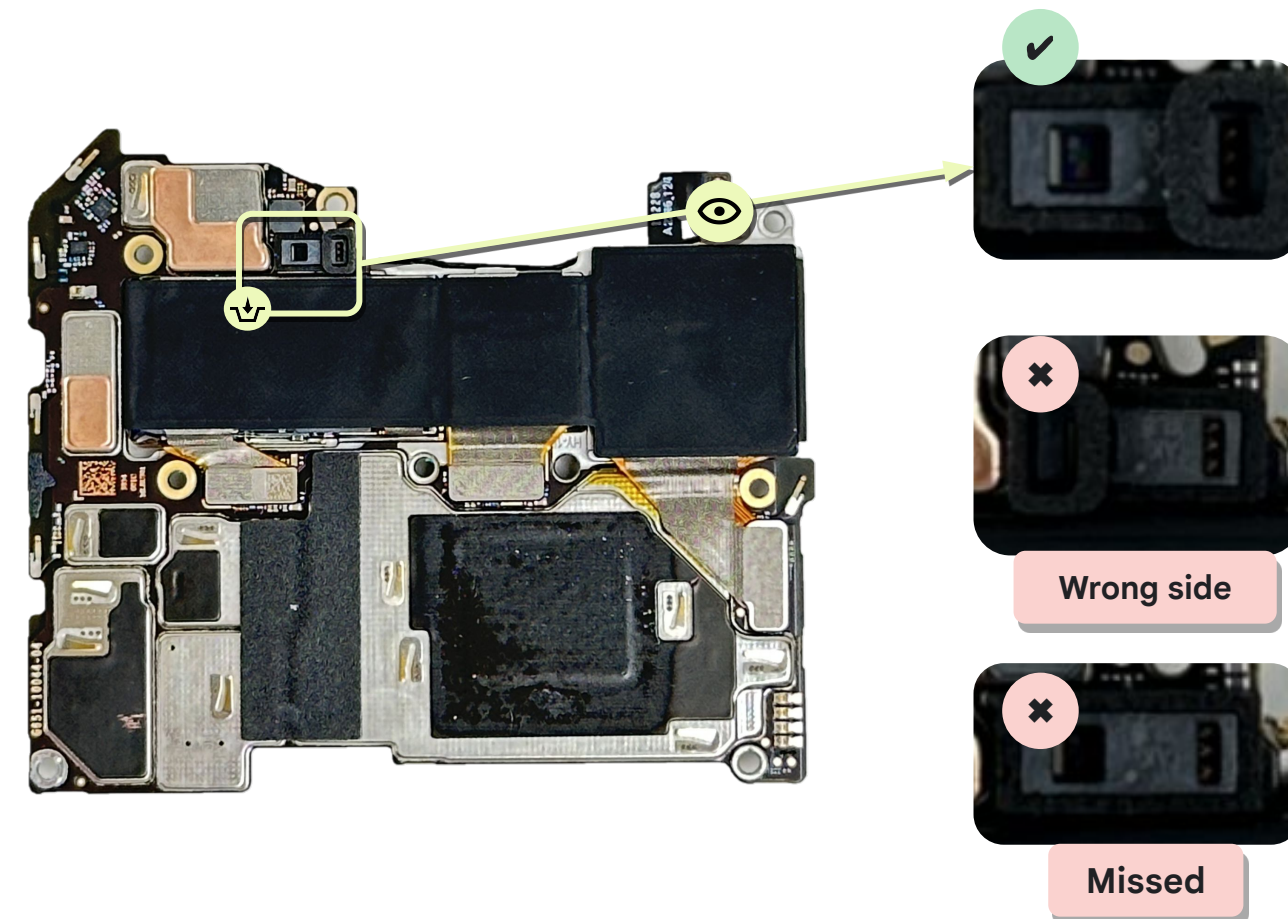


Use caution

Skip this step if the **p-sensor foam** isn't removed from the **logic board** during disassembly.

Use a new foam when you replace the **logic board**.

Don't reuse the old one.



Apply the SOC TIM

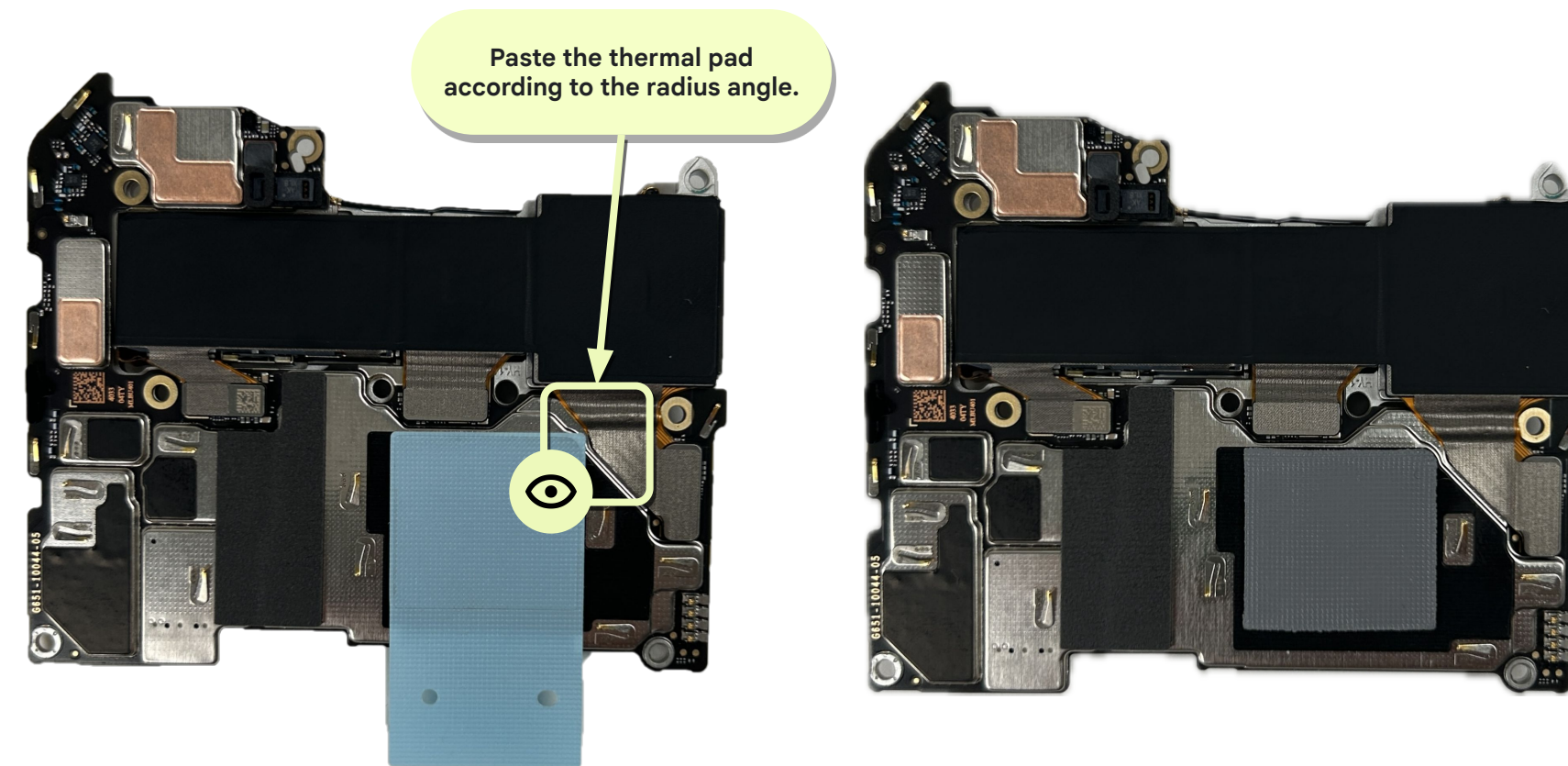
- Attach the **SOC TIM** with outline according to the radius angle and light press **SOC TIM** by hand.
- Remove the liner.

Part: G806-10416-00 (SOC TIM)



Note

This step is only present for new and reclaimed logic board.



Assemble the logic board

- Assemble the **logic board** to the **enclosure** from the **top side** with an angle as shown in Fig 1 and Fig 2.
- Ensure that the **ANT4 coaxial cable** is above as shown in Fig 3.

Part: Multiple part numbers logic board)



Use caution

Be careful to avoid damage to the components on the **logic board**.



Note

Don't wear gloves when you handle the **logic board**.

Fig 1



Fig 3

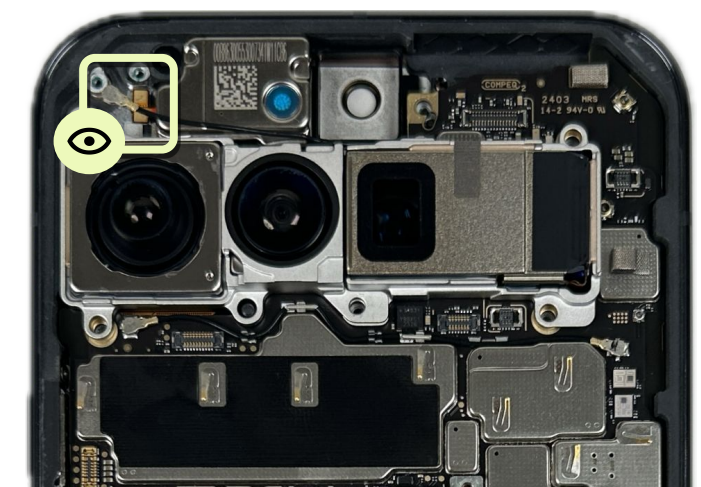
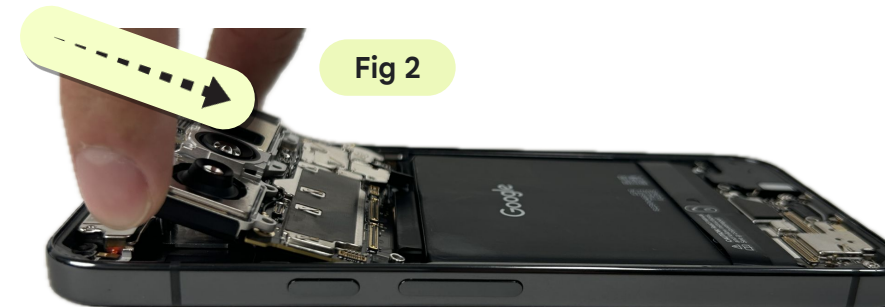
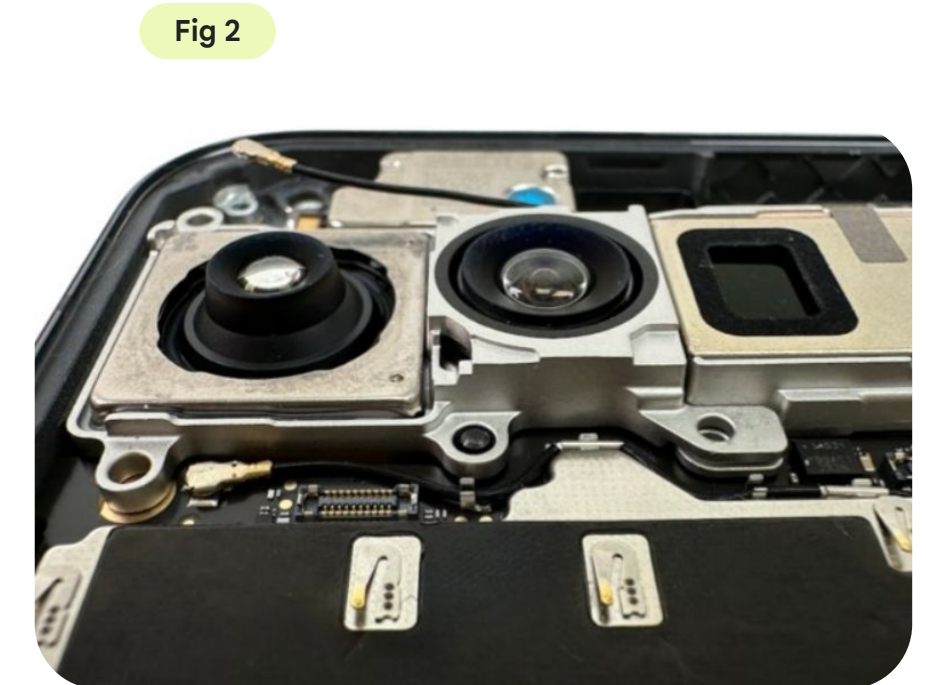


Fig 2



Check the seating

- There's a **position post** on the **logic board** as shown in Fig 1.
- Make sure that the **logic board** sits well as shown in Fig 2.



Fasten the screw

Fasten the **screw** with a **standoff 2.5 mm screwdriver**.

Part: G250-07484-00 (Screw)



Use caution

Be careful when you use the screwdriver. *Don't* damage the adjacent battery.


Incorrect use of the screwdriver could cause injury to you or others or damage to the battery or the product.



Note

Torque force: 1.5 ± 0.03 kgf-cm



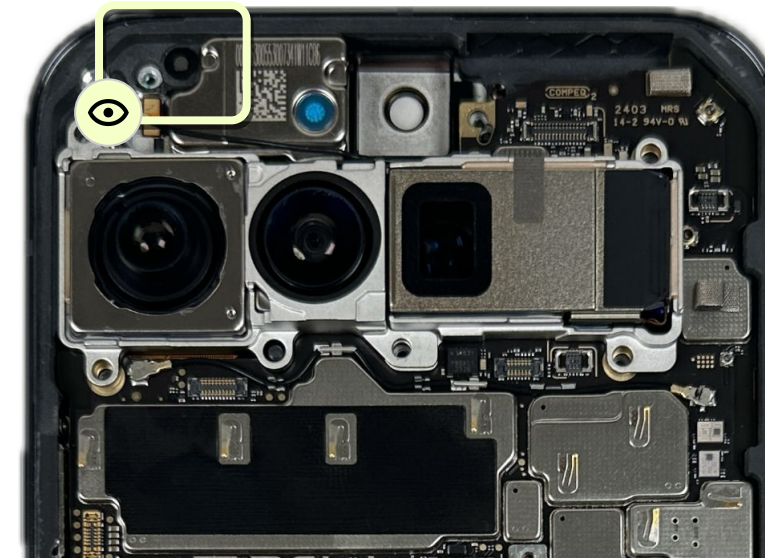
 Assembly
instructions

ANT4 board

Clean the enclosure

- Clean the residue on the **enclosure** with **ESD tweezers**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: Multiple part numbers (Enclosure)



Reuse the ANT4 board

- Clean the residue on the **ANT4 board** with **ESD tweezers**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

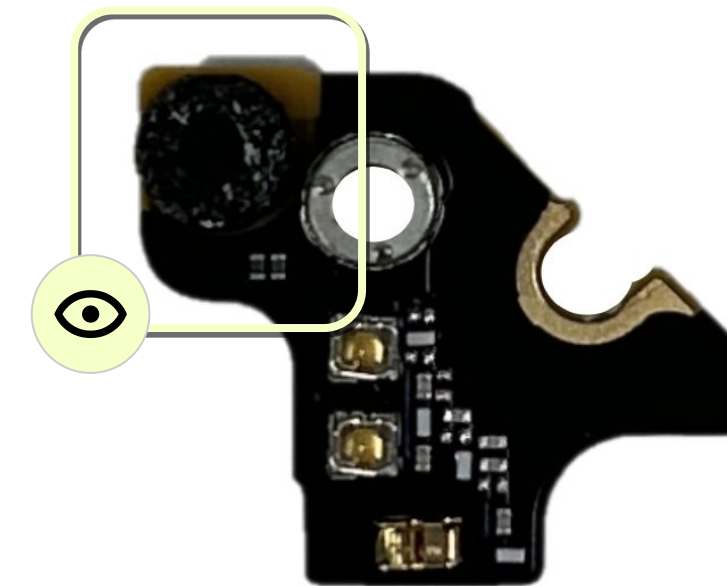
Part: G949-01034-00 (ANT4 board)

⚠ Use caution

Be careful to avoid damage to the components on the ANT4 board.

💡 Note

Don't wear gloves when you handle the ANT4 board.



Attach the mic3 mesh

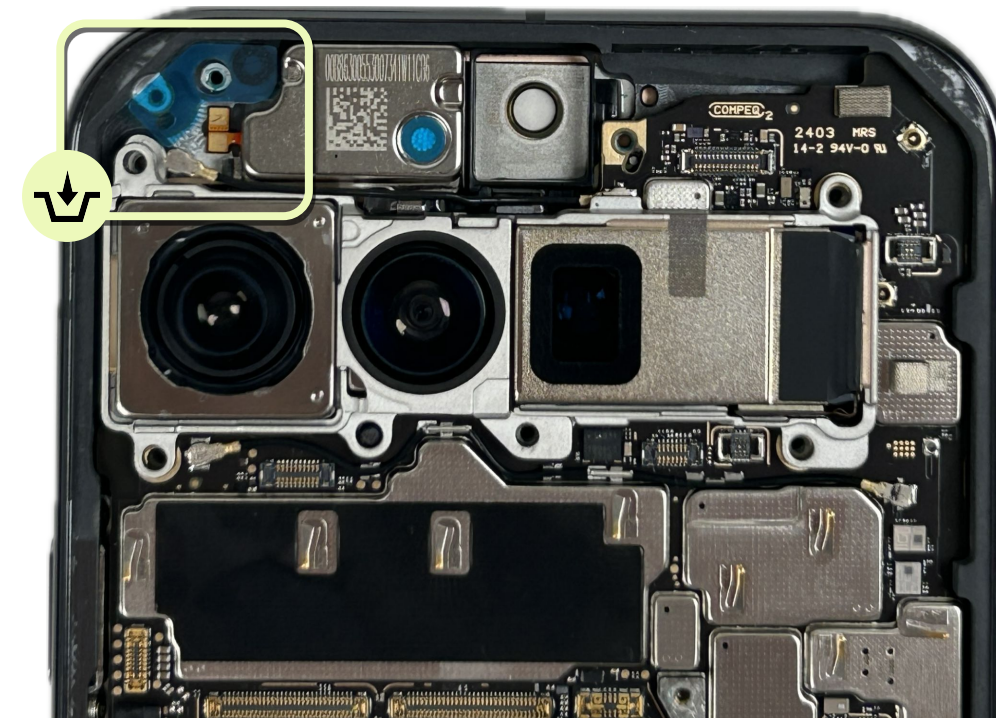
Attach the **mic3 mesh** to the enclosure with **ESD tweezers**.

Part: G806-11492-01 (Mic3 mesh)



Use caution

Make sure that the **mic3 mesh liner** is removed before assembly.



Assemble the ANT4 board

Assemble the **ANT4 board** to the enclosure.

Part: G949-01034-00 (ANT4 board)

Use caution



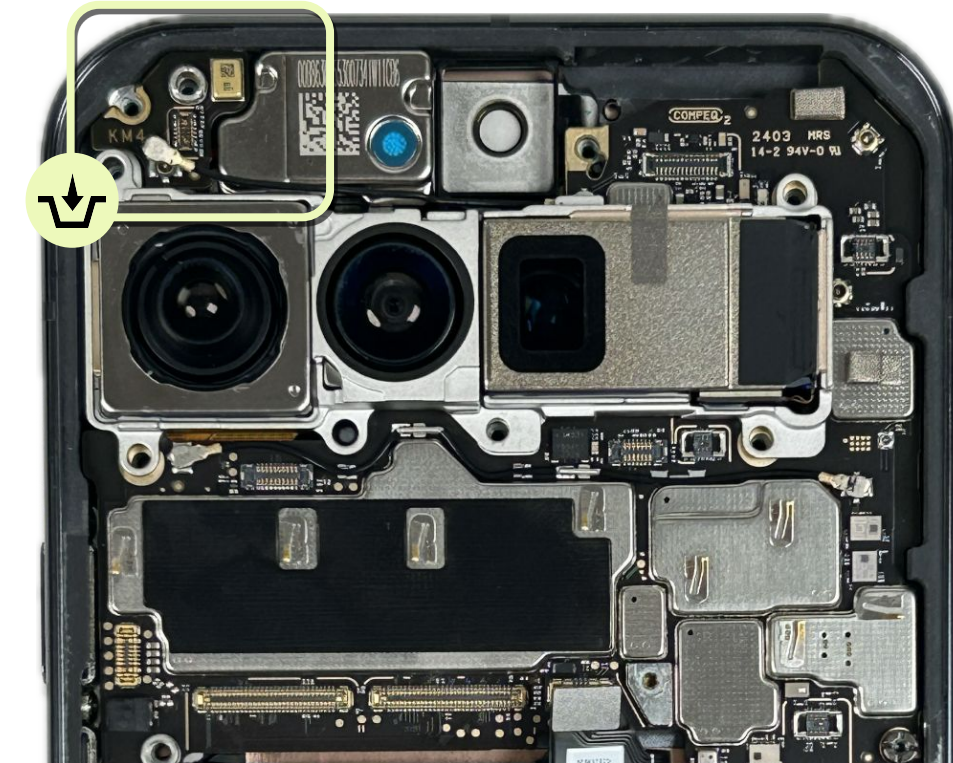
Make sure that the **mic3 mesh liner** is removed before assembly.

Be careful to avoid damage to the components on the **ANT4 board**.

Note



*Don't wear gloves when you handle the **ANT4 board**.*



Fasten the screw

Fasten the **ANT4 board screw** with the **torx plus 3IP screwdriver**.

Part: G250-07219-00 (Screw)



Use caution

Be careful when you use the screwdriver. *Don't* damage the adjacent battery.

Incorrect use of the screwdriver could cause injury to you or others or damage to the batter or the product.



Note

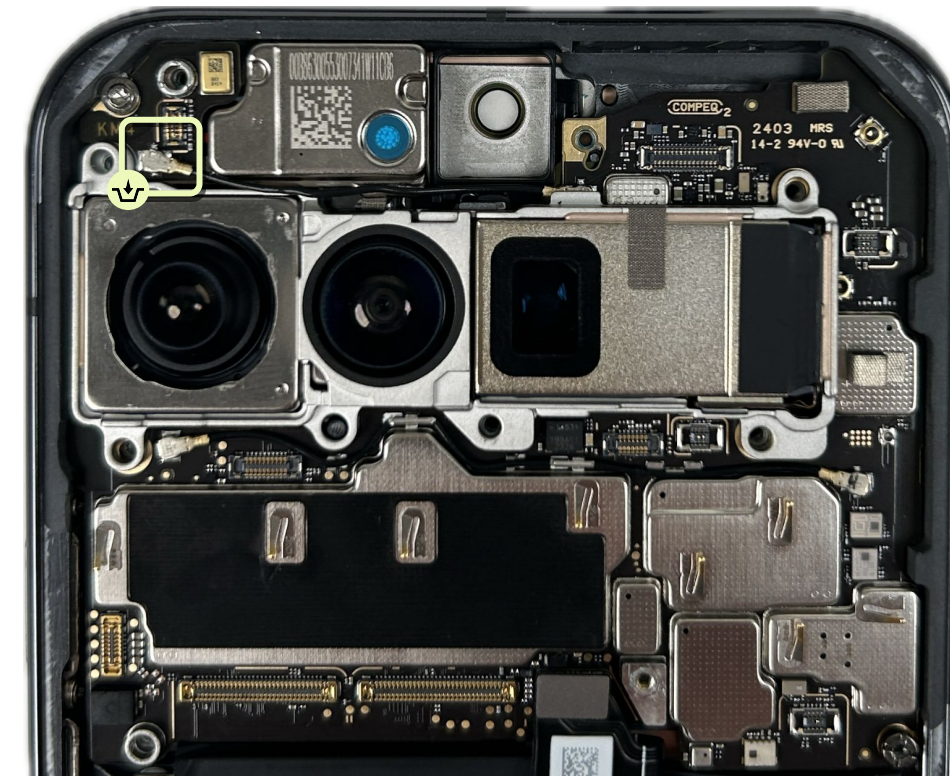
Torque force: 1.5 ± 0.03 kgf-cm



Buckle the cable

Buckle the **ANT4** coaxial cable connector to the **ANT4** board with the **ESD spudger**.

Part: G821-00924-00 (Cable)



Reuse the LDAF

- Clean the residue on the **LDAF** with **ESD tweezers**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

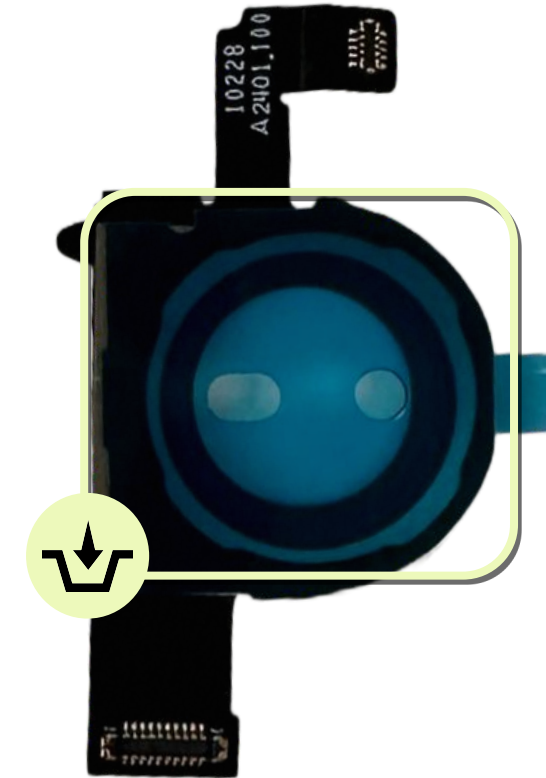
Part: G949-01029-00 (LDAF flex)



Attach the LDAF adhesive

Stick the **LDAF adhesive** to the **designated position** on the **LDAF** with **ESD tweezers**.

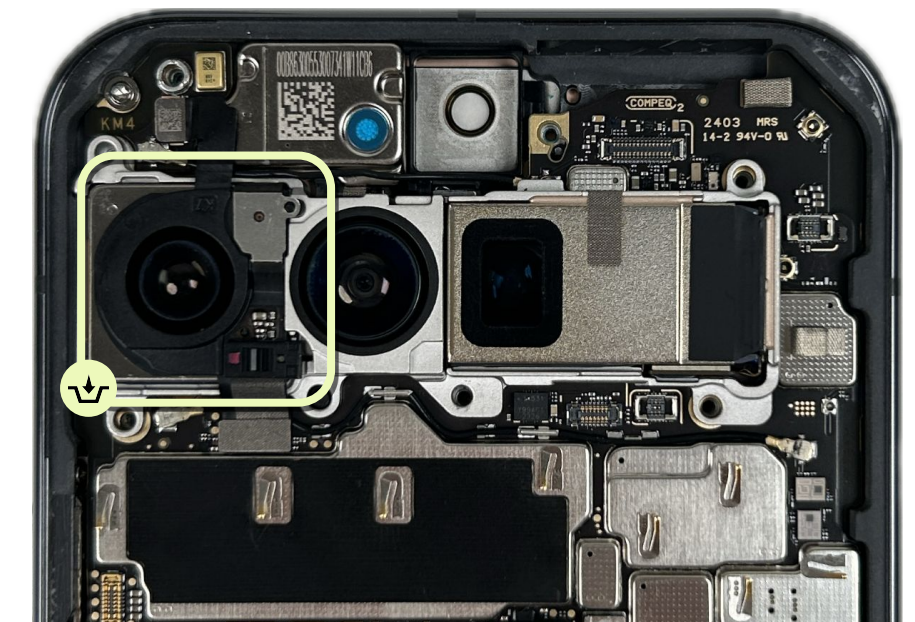
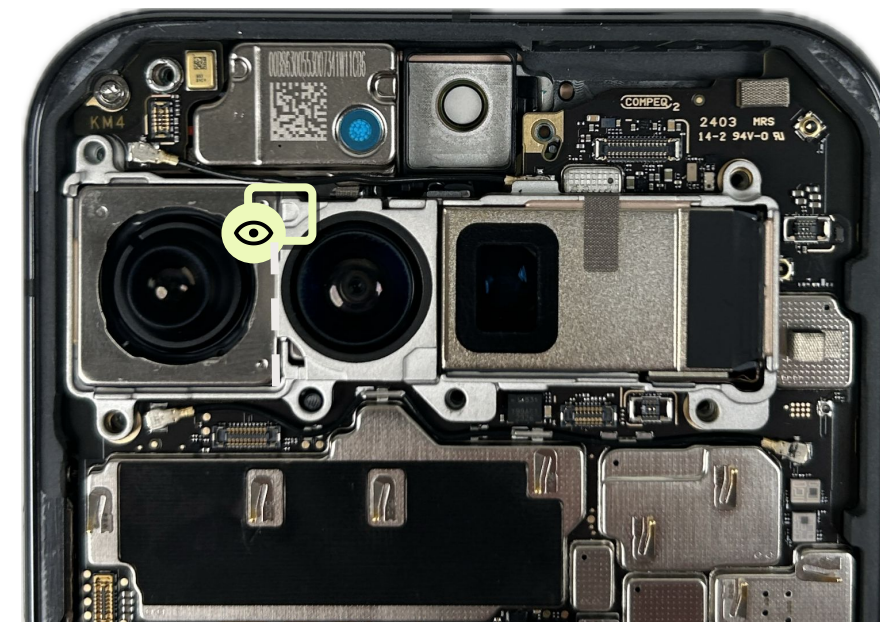
Part: G806-13914-00 (LDAF adhesive)



Assemble the LDAF

Assemble the **LDAF** to the **rear camera**, the **LDAF** align the dotted line and groove.

Part: G949-01029-00 (LDAF flex)



Buckle the LDAF

Buckle the **LDAF connectors** to the **logic board** and the **ANT4 board**.



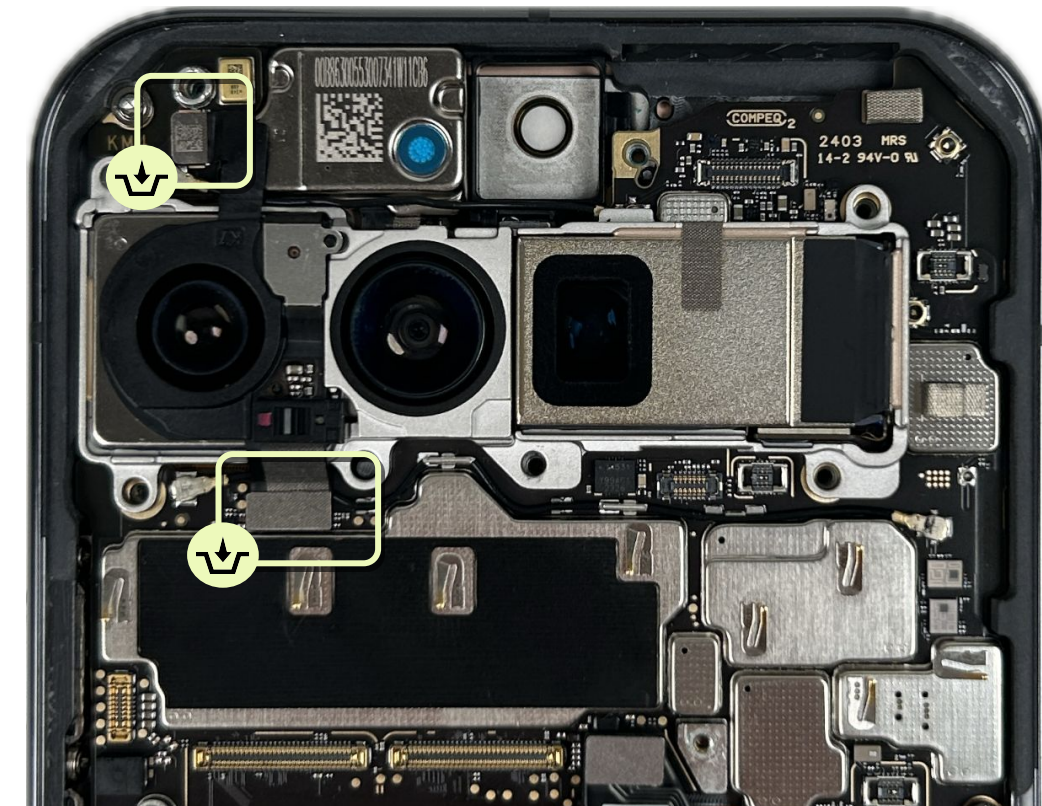
Use caution

Be careful to avoid touching the **rear camera lens**.



Note

Check if every **connector** is fully attached to the **logic board** and the **ANT4 board**.



Assemble the ANT4 cowling

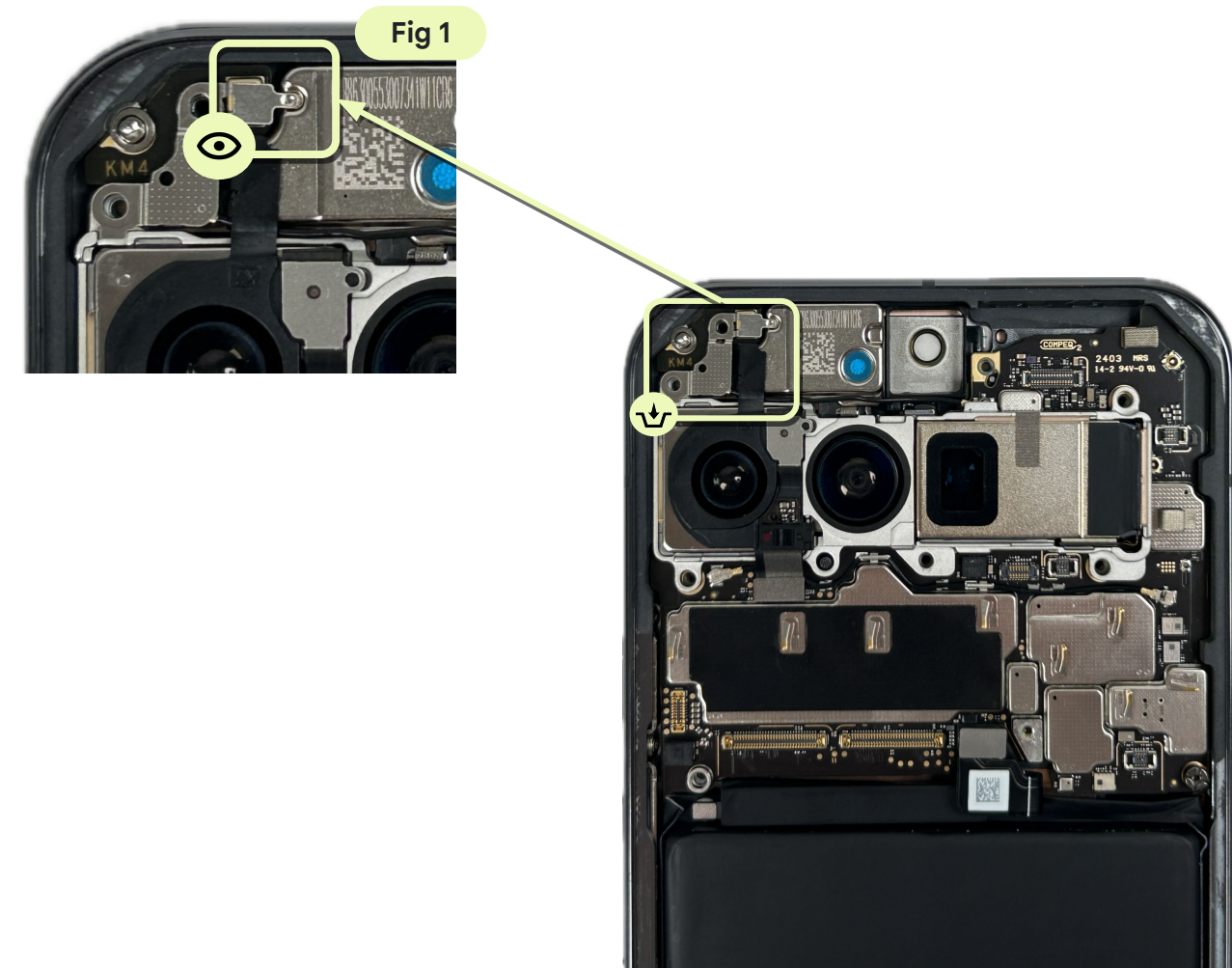
Assemble the **ANT4 cowling** to the **ANT4 board**.

Part: G730-08339-23 (ANT4 cowling)



Note

Install the ANT4 cowling as shown in Fig 1.



Fasten the screw

Fasten the **two ANT4 board screw** with the **torx plus 3IP screwdriver**.

Part: G250-07214-00 (Screw)



Use caution

Be careful when you use the screwdriver. *Don't* damage the adjacent battery.


Incorrect use of the screwdriver could cause injury to you or others or damage to the battery or the product.



Note

Torque force: 1.5 ± 0.03 kgf-cm



 Assembly
instructions

mmWave module

Clean the enclosure

- Clean any **mmWave TIM** residue from the **enclosure** with **ESD tweezers**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

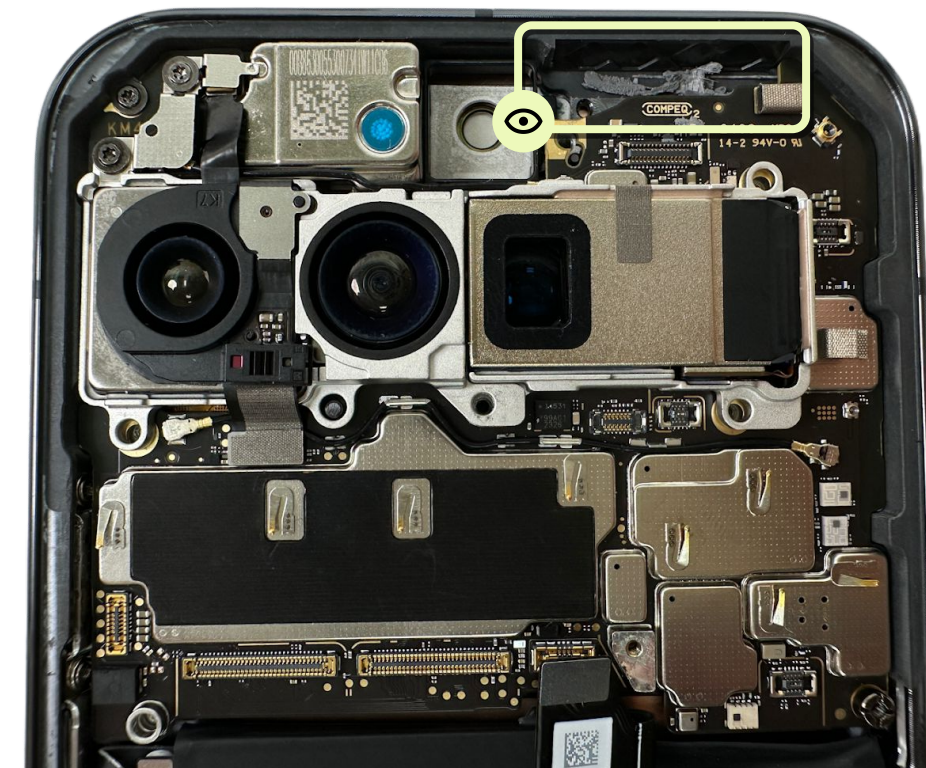
Part: Multiple part numbers (Enclosure)



Note

Undamaged **mmWave TIM** can be reused.

Otherwise, they may need to be replaced.



Attach the mmWave flex

Attach the **mmWave flex** from the **mmWave module**.

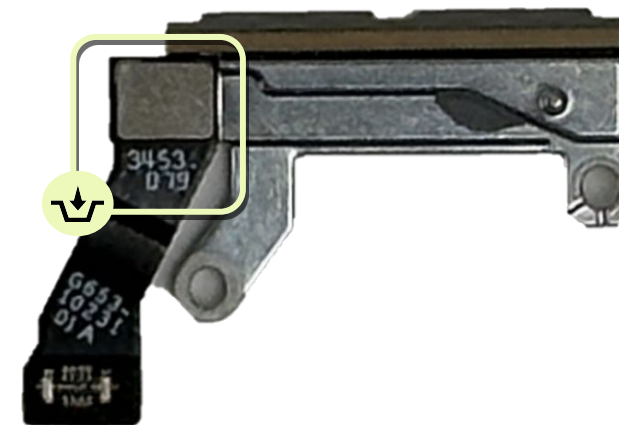
Part: G652-10231-01 (mmWave flex)

Note

This step is only present in the mmWave SKU.

Use caution

This step only applies when there's either the mmWave or the heatsink mmWave damage.

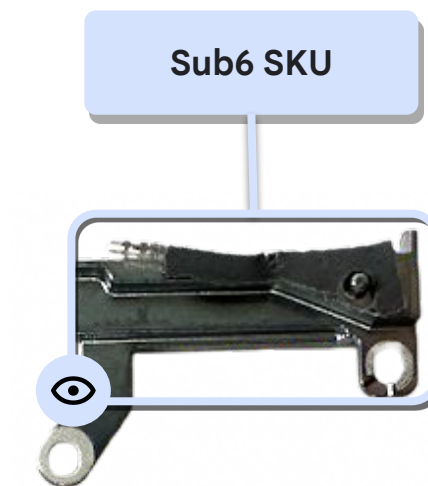
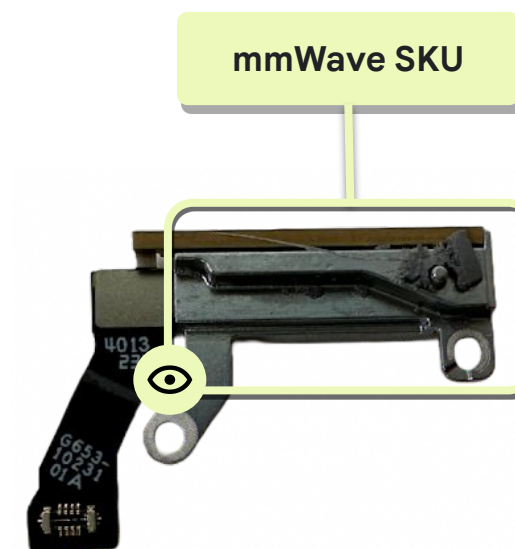


Reuse the mmWave module

- Clean **mmWave TIM** residue on the **mmWave module** with the **ESD spudger**.
- Use a **dust-free cloth** with **IPA** to clean the surface if needed.

Part: G949-01036-00 (mmWave module)

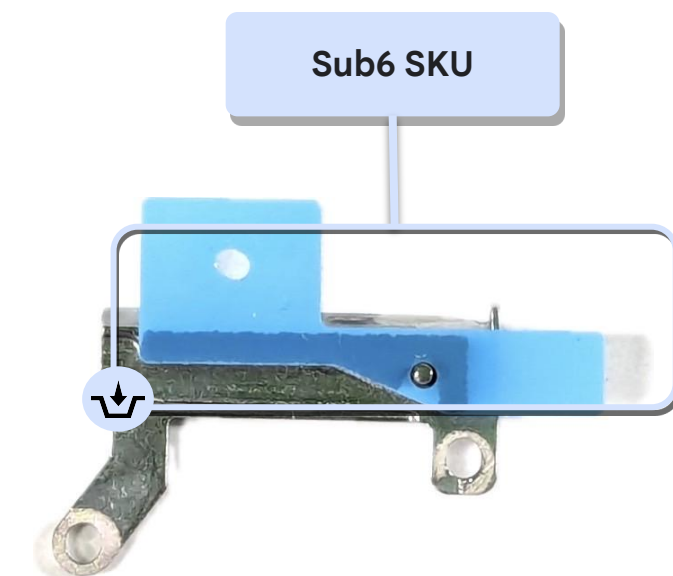
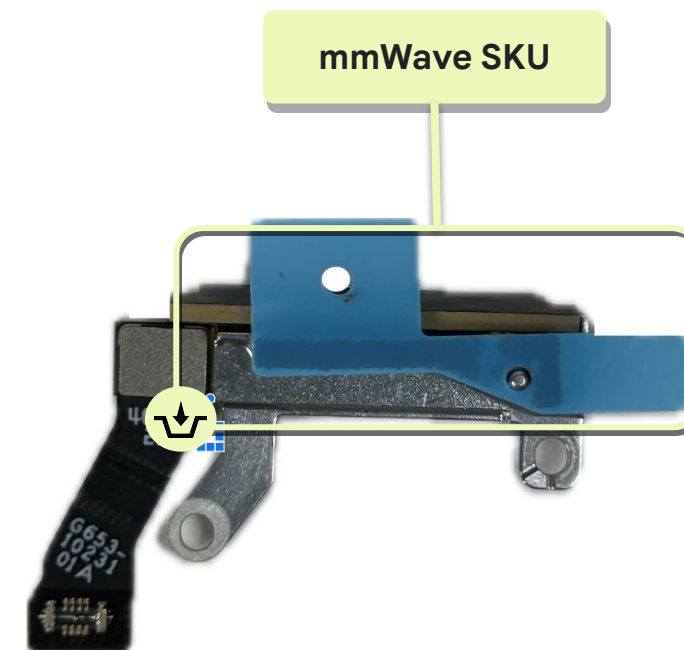
Part: G850-00566-01 (Sub6 heatsink)



Apply the mmWave TIM

Align the **mmWave TIM** with the outline on the **mmWave module** and light press **mmWave TIM** by hand.

Part: G806-10422-00 (mmWave TIM)



Assemble the mmWave module

- Tear off the liner and assemble the **mmWave module** to the **enclosure**.
- Buckle the **mmWave module connector** to the **logic board**.

Part: G949-01036-00 (mmWave module)

Part: G850-00566-01 (Sub6 heatsink)



Note

Check every **connector** is fully attached to the **logic board**.



Fasten the screw

Fasten the **mmWave module screw** with the **torx plus 3IP screwdriver**.

Part:G250-07219-00 (Screw)



Use caution

Be careful when you use the screwdriver. *Don't* damage the adjacent battery.

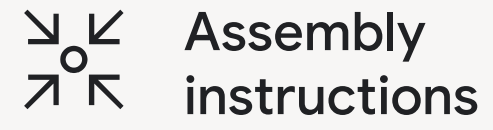
Incorrect use of the screwdriver could cause injury to you or others or damage to the battery or the product.



Note

Torque force: 1.5 ± 0.03 kgf-cm





Front camera

Clean the enclosure

- Clean the residue on the **enclosure** with **ESD tweezers**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: Multiple part numbers (Enclosure)



Reuse the front camera

- Clean the residue on the **front camera** with **ESD tweezers**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: G949-01031-00 (Front camera)



Use caution

Be careful to avoid touching the **front camera lens**.



Attach the FCAM adhesive

Attach the **FCAM adhesive** to the enclosure with **ESD tweezers**.

Part: G806-11408-01 (FCAM adhesive)



Note

Undamaged **FCAM adhesive** can be reused.

Otherwise, they may need to be replaced.



Assemble the front camera

Tear off the liner and assemble the **front camera** to the **enclosure**.

Part: G949-01031-00 (Front camera)



Use caution

Ensure that the environment is clean for this process.



Buckle the FCAM connector

Buckle the **FCAM connector** to the **logic board**.



Note

Check the **connector** is fully attached to the **logic board**.



Attach the FoF

- Attach the **front camera FoF** to FCAM cowling.
- and align the mark with **ESD tweezers** as shown in Fig 1.

Part: G806-11428-00 (Front camera FoF)

Part: G730-08354-03 (FCAM cowling mmWave)

Part: G730-08354-83 (FCAM cowling sub6)

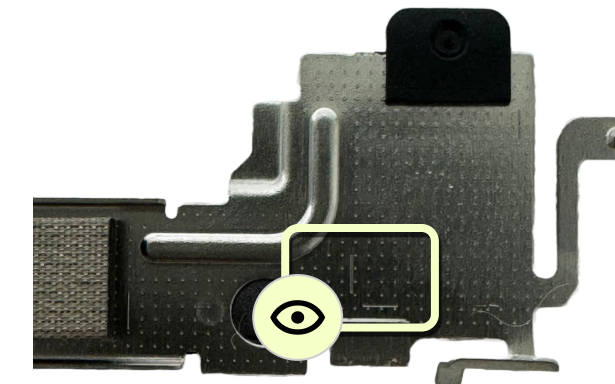
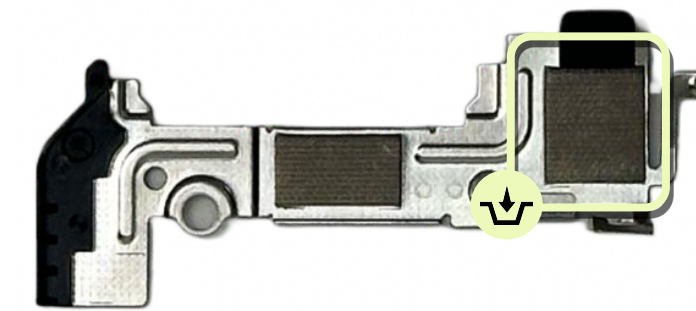


Fig 1



Note

Align on the new FCAM cowling. If reuse the old one, you *don't* need to paste the FoF.

Assemble the FCAM cowling

- There's a **hook** on the **enclosure** as shown in Fig 1.
- Assemble the **FCAM cowling** into the slot on the **enclosure** at an angle as shown in Fig 2 and Fig 3.

Part: G730-08354-03 (FCAM cowling mmWave)

Part: G730-08354-83 (FCAM cowling sub6)



Fig 1



Fig 2

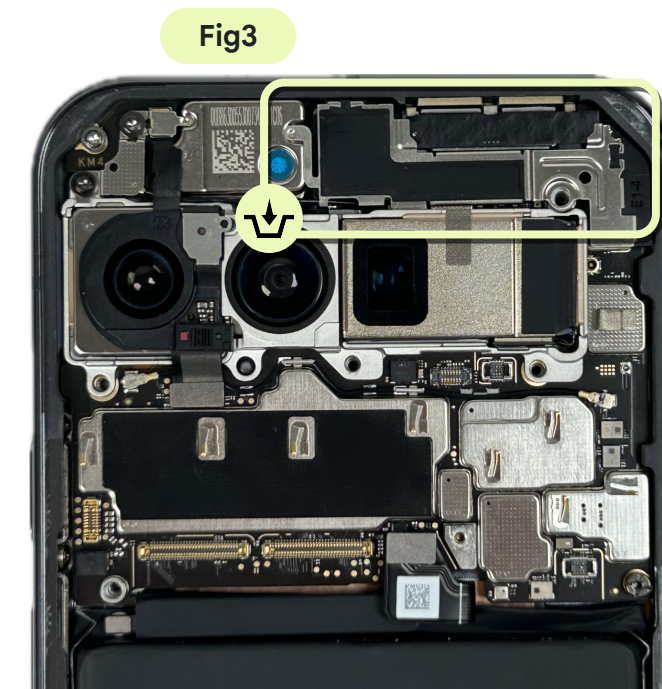


Fig 3

Fasten the screw

Fasten the **FCAM cowling screw** with the **torx plus 3IP screwdriver**.

Part: G250-07214-00 (Screw)



Use caution

Be careful when you use the screwdriver. *Don't* damage the adjacent battery.


Incorrect use of the screwdriver could cause injury to you or others or damage to the battery or the product.



Note

Torque force: 1.5 ± 0.03 kgf-cm



 Assembly
instructions

Jumpflex

Assemble the DJ flex

Assemble and buckle the **four DJ flex connectors** to the **logic board** and the **chin board** by sequence.

Part: G949-01035-00 (DJ flex)



Note

Check every **connector** is fully attached to the **logic board** and the **chin board**.



Assemble the RJ flex

Assemble and buckle the **two RJ flex connectors** to the **logic board** and the **chin board** by sequence.

Part: G652-10239-04 (RJ flex)



Note

Check every **connector** is fully attached to the **logic board** and the **chin board**.



Fasten the screw

Fasten the **two RJ flex screws** in a sequence with the **torx plus 3IP screwdriver**.

Part: G250-07315-00 (Screw)



Use caution

Be careful when you use the screwdriver. *Don't* damage the adjacent battery.

Incorrect use of the screwdriver could cause injury to you or others or damage to the battery or the product.



Note

Torque force: 1.5 ± 0.03 kgf-cm



Assemble the CLB cowling

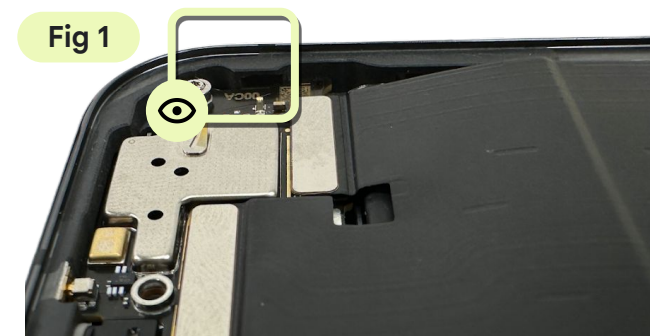
- There's a **hook** on the **enclosure** as shown in Fig 1.
- Assemble the **CLB cowling** into the **hook** at an angle.

Part: G730-08533-11 (CLB cowling)



Note

Make sure that the CLB cowling goes under the enclosure slot.



Fasten the screw

Fasten the **two CLB cowling screws** in a sequence with the **torx plus 3IP screwdriver**.

Part: G250-07315-00 (Screw)



Use caution

Be careful when you use the screwdriver. *Don't* damage the adjacent battery.

Incorrect use of the screwdriver could cause injury to you or others or damage to the battery or the product.



Note

Torque force: 1.8 ± 0.03 kgf-cm



Attach the DJ flex tape


- There's a **cutting line** on the **adhesive liner** as shown in Fig 1.
- Attach the **DJ flex tape** to the **CLB cowling** according to the **cutting line** on the liner.

Part: G806-11965-01 (DJ flex tape)



Fig 1



 Assembly
instructions

BG sub

Buckle the battery connector

- Buckle the **battery connector** to the **logic board**.
- Power on to check if the device works properly, power off the device after you check it.



Note

Check every connector is fully attached to the logic board.



Assemble the NFC/WLC cowling

- Assemble the **NFC/WLC cowling** as shown in Fig 1.
- Make sure cowling is sitting on the alignment pin, shown as Fig 2 and Fig 3.
- Ensure that the **NFC/WLC cowling** doesn't overlap with the enclosure as shown in Fig 4 and Fig 5.

Part: G949-01030-00 (NFC/WLC cowling)

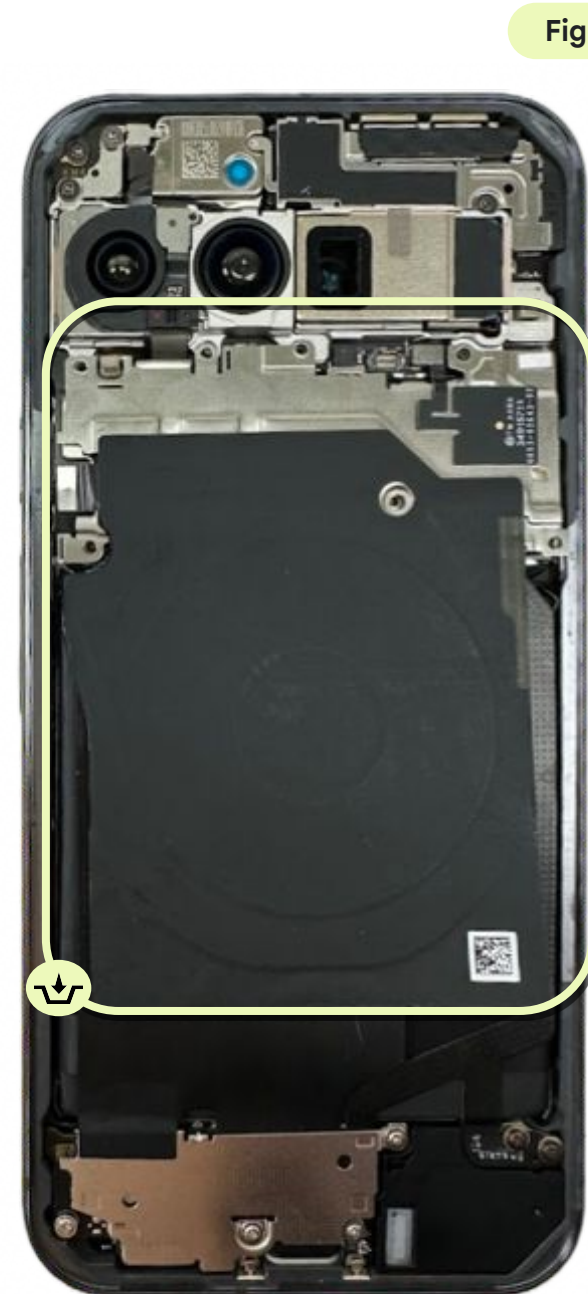


Fig 1

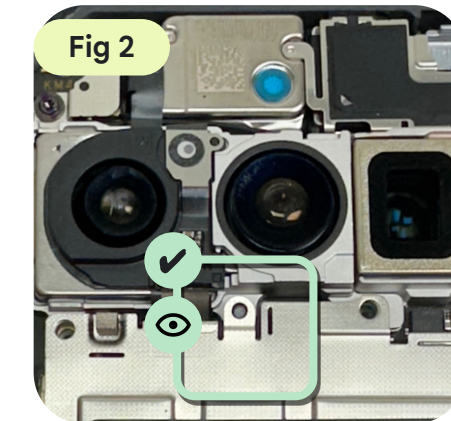


Fig 2

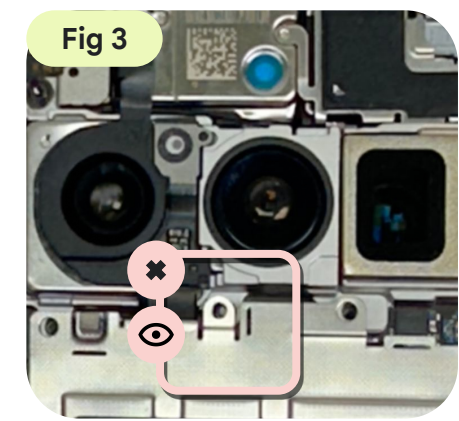


Fig 3

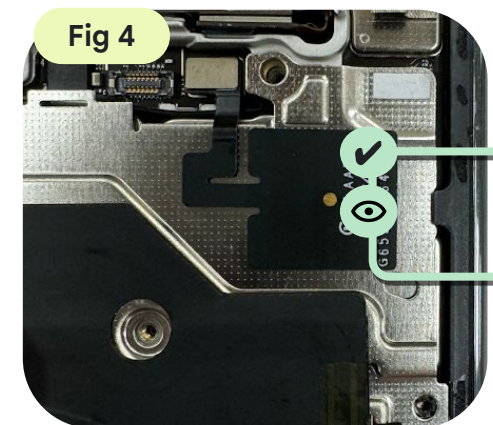


Fig 4

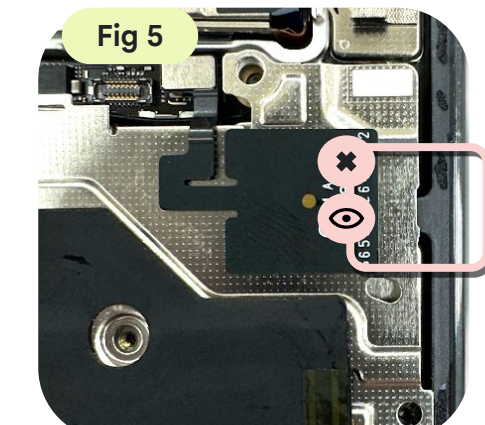


Fig 5

NFC/WLC Cowling on top enclosure structure

Buckle the two connectors

Buckle the two **connectors** to the **logic board**.



Note

Check every **connector** is fully attached to the **logic board**.



Fasten the screw

Fasten the **two NFC/WLC cowling screws** in a sequence with the **torx plus 3IP screwdriver**.

Part: G250-07228-00 (Screw)



Use caution

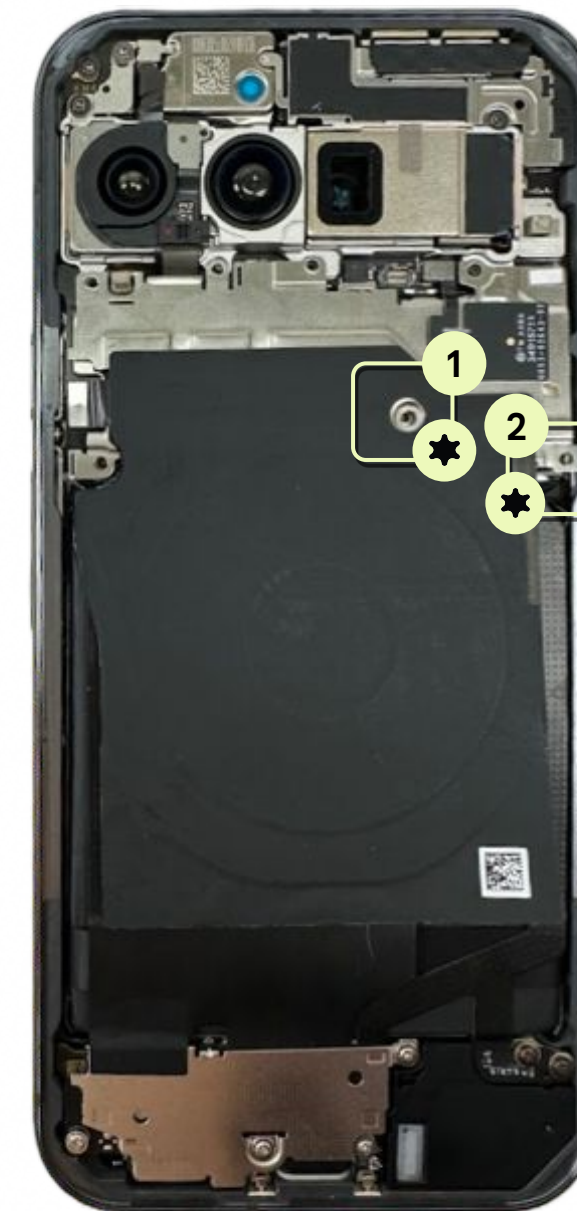
Be careful when you use the screwdriver. *Don't* damage the adjacent battery.

Incorrect use of the screwdriver could cause injury to you or others or damage to the battery or the product.



Note

Torque force: 1.5 ± 0.03 kgf-cm



Assemble the WLC cowling

Assemble the WLC cowling.

Part: G730-08485-00 (WLC cowling)



Fasten the screw

Fasten the two **main cowling screws** with the **torx plus 3IP screwdriver**.

Part: G250-07214-00 (Screw)



Use caution

Be careful when you use the screwdriver. *Don't* damage the adjacent battery.

Incorrect use of the screwdriver could cause injury to you or others or damage to the battery or the product.



Note

Torque force: 1.8 ± 0.03 kgf-cm



Attach the NFC mylar

- Paste the **NFC mylar** according to the alignment line with **ESD tweezers**.
- Remove the liner accordingly.

Part: G806-12764-00 (NFC mylar)



Reuse the BG sub

- Inspect the **BG sub area** for adhesive residue.
- It's recommended to carefully and slowly peel off the adhesive by hand in one piece.
Use the **ESD spudger** to clean it.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: Multiple part numbers (BG sub)

Use caution

Be careful to avoid touching the **rear camera lens**.

The **heat plate** is a hot surface.
Use caution as it could cause burns.



Note

Place the device on a **heat plate** at 140°F (60°C) for remove adhesive easily.

Don't heat more than 10 mins.

Mic2 mesh residues on the LDAF and the BG sub need to be reclaimed after you remove the BG sub.



Attach the mic2 mesh

- Attach the **mic2 mesh** to the **BG sub** with **ESD tweezers**.
- Remove the **mic2 mesh liner** before you assemble the **BG sub**.

Part: G806-12738-01 (Mic2 mesh)



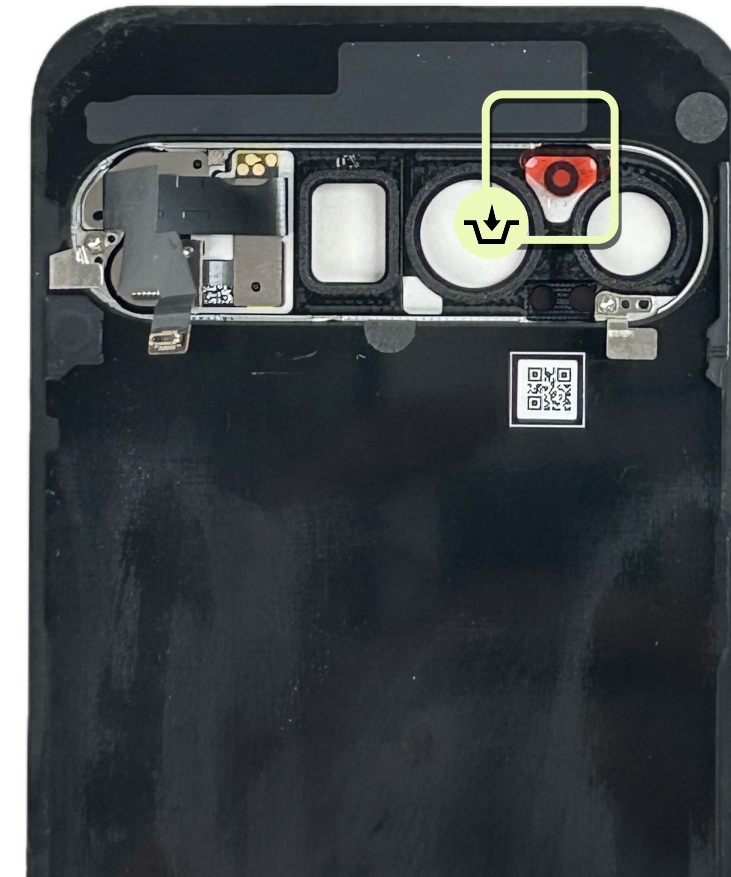
Use caution

Make sure that the **mic2 mesh liner** is removed.



Note

Mic2 mesh needs to be replaced after you remove the BG sub.



Apply the primer on the enclosure

- Apply **IPA** around the edges of the **enclosure** with a **dust-free cotton swab**.
- Apply **3M 111 primer** around the edges of the **enclosure** with a **dust-free cotton swab** for one round.

Part: Multiple part numbers (Enclosure)



Use caution

After the **primer** is applied, complete assembly in 25 minutes



Align the adhesive

- Slowly remove the liner from the **BG adhesive**.
- Place the **adhesive** according to the outline of the **enclosure**.

Part: G806-10576-90 (BG adhesive)



Use caution

*Don't touch the **adhesive**.*

If it gets dirty, change to another one.



Activate the adhesive (first time)

Gently press around the edges with the **ESD spudger** to enhance the bond between the **enclosure** and the **adhesive**.



Use caution

Don't press the RCAM area (visor) during the process.



Remove the liner (first layer)

- Pull the tab carefully to remove the **first layer**. Avoid lifting the adhesive.
- Gently press around the edges with the **ESD spudger** to enhance the bond between the **enclosure** and the **adhesive**.



Use caution

Don't remove the second layer of the liner.



Activate the adhesive (second time)

Gently press around the edges with the **ESD spudger** to enhance the bond between the **enclosure** and the **adhesive**.



Use caution

Don't press the RCAM area (visor) during the process.



Apply the primer on the BG sub

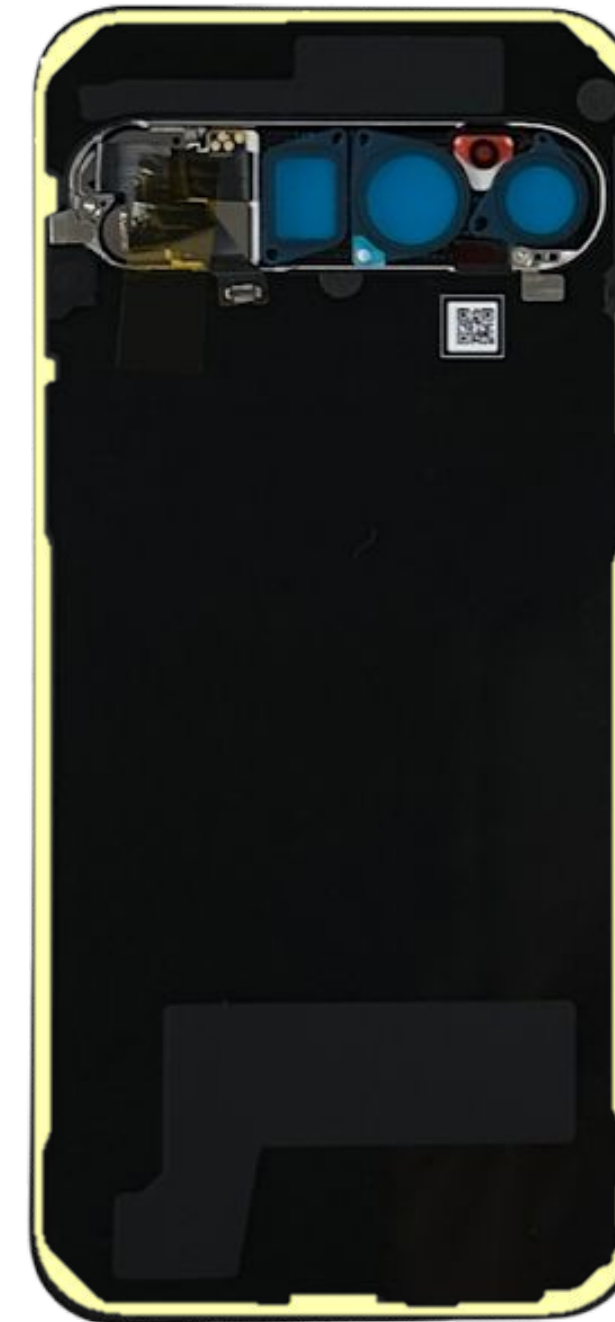
- Apply **IPA** around the edges of the **BG sub** with a **dust-free cotton swab**.
- Apply **3M 111 primer** around the edges of the **BG sub** with a **dust-free cotton swab** for one round.

Part: Multiple part numbers (BG sub)



Use caution

After the primer is applied, complete assembly in 25 minutes.



Remove the film

Remove all the **films** on the **BG sub**.



Use caution

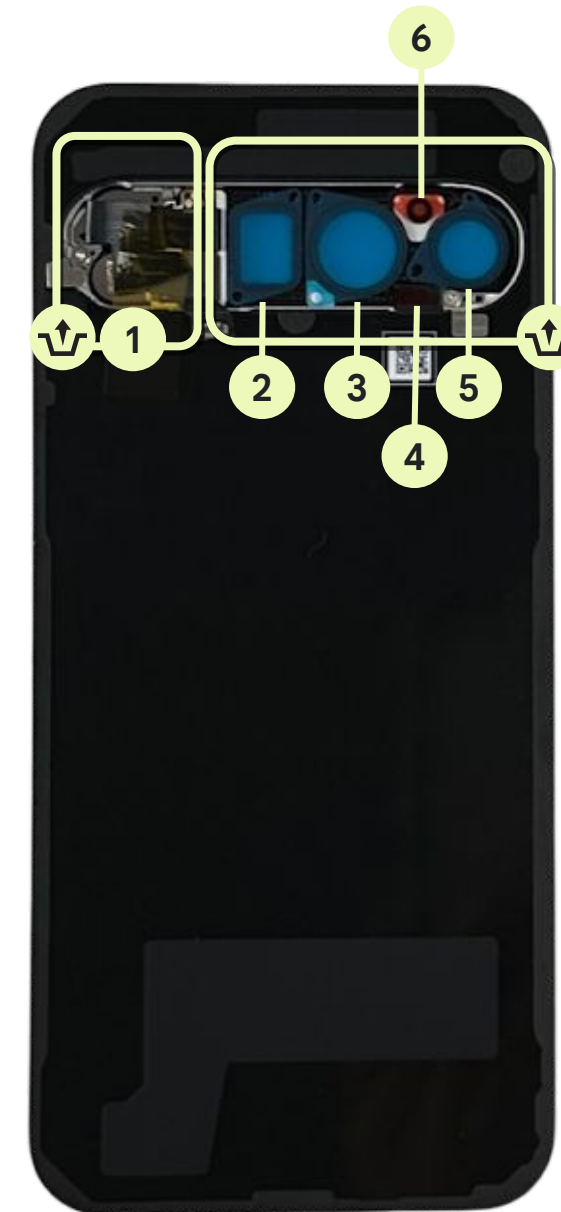
Make sure that all the **films** are removed.

There are **six films** in group two.



Note

If you reuse the **BG sub** you can skip this step.



Connect the BG sub

- Use the **suction bulb** to prop up the **BG sub**.
- Connect the **BG flex** to the **logic board**, and apply even pressure across the connector to ensure that it's fully engaged.



Use caution

Pressure should be applied straight downward on the connector, not against any part of the flex.



Note

Avoid damage to the springs especially near where the BG sub contacts enclosure.



Assemble the UWB cowling

Assemble the **UWB cowling** with **ESD tweezers**.

Part: **G730-08486-00** (UWB cowling)



Use caution

Avoid damage to the BG sub flex.



Fasten the screws

Fasten the **two UWB cowling screws** with the **torx plus 3IP screwdriver**.

Part: G250-07214-00 (Screw)



Use caution

Be careful when you use the screwdriver. *Don't* damage the adjacent battery.

Incorrect use of the screwdriver could cause injury to you or others or damage to the battery or the product.



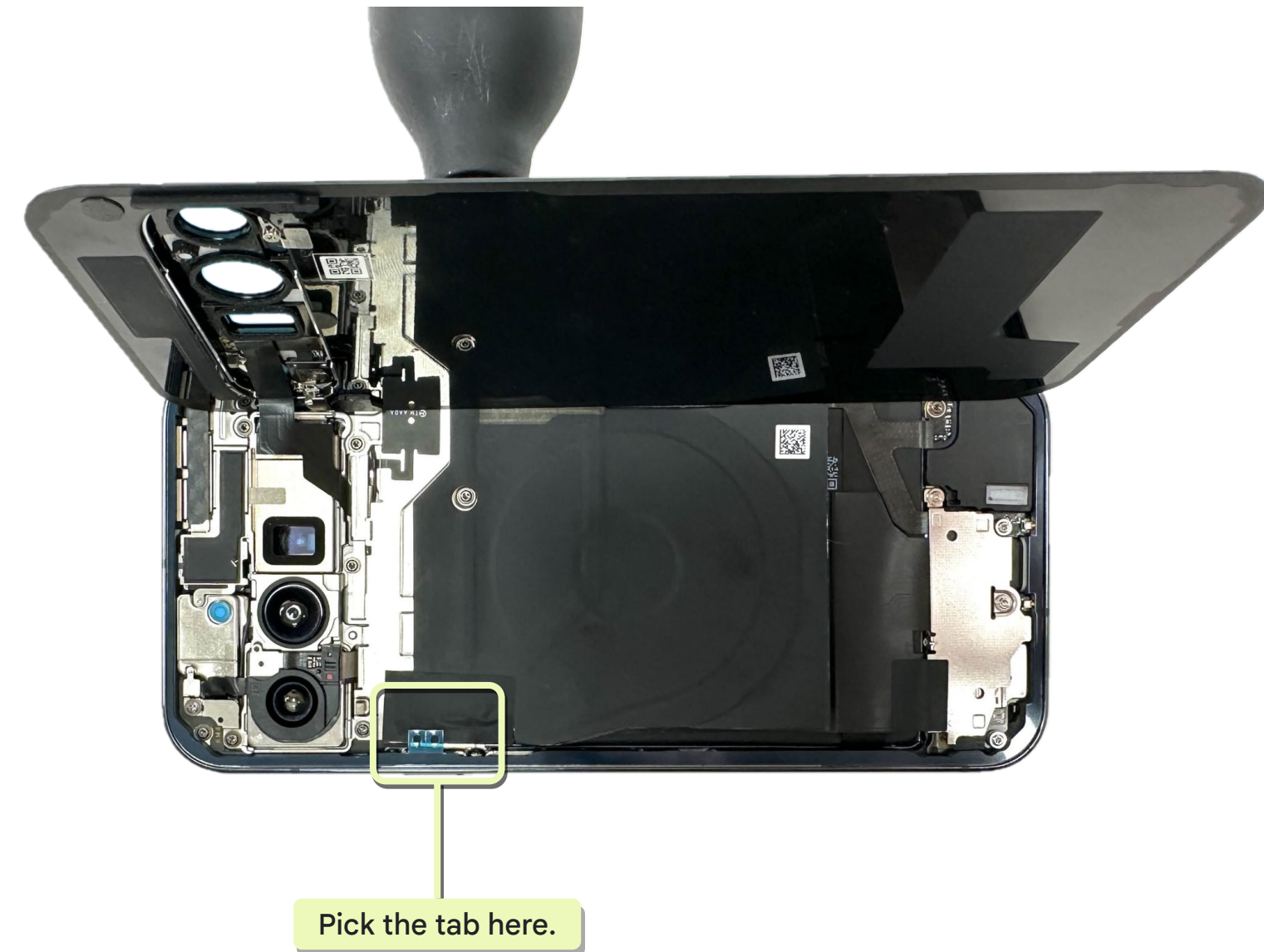
Note

Torque force: 1.5 ± 0.03 kgf-cm



Remove the liner

Carefully peel the **PSA liner** off with **ESD tweezers**.



Attach the BG sub

- Attach the **BG sub** onto the **enclosure** vertically.
- Press around the **BG bezel** with both hands.



Note

Press the center of the top side first, followed by the two longer sides and the bottom side.

Don't press the RCAM area (visor) during the process.



Prepare to press

- Place the **Pixel universal holder** in the **C2 position** on the **Pixel universal base**.
- Place the **Pixel 9 Pro XL CG press rubber** and the **Pixel universal holder limiting block** on the **Pixel universal holder** in a sequence as shown in Fig 1.
- Place the **device** and **lock** it as shown in Fig 2.
- Place the **Pixel 9 Pro XL BG press rubber** as shown in Fig 3.



Note

Make sure that the Pixel universal holder is in the right position.

C2 position

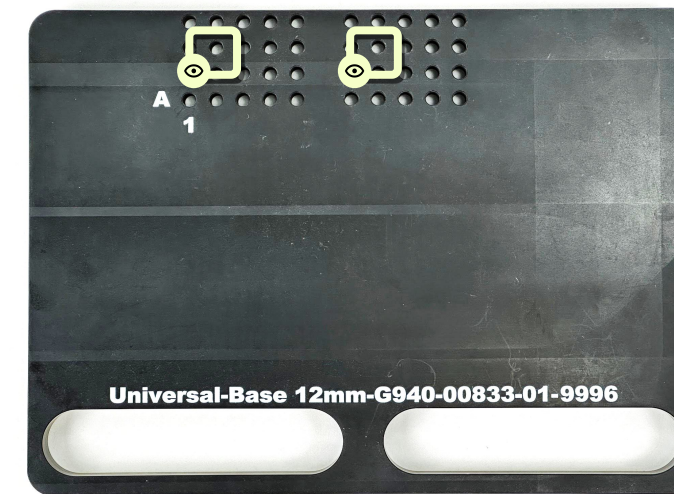


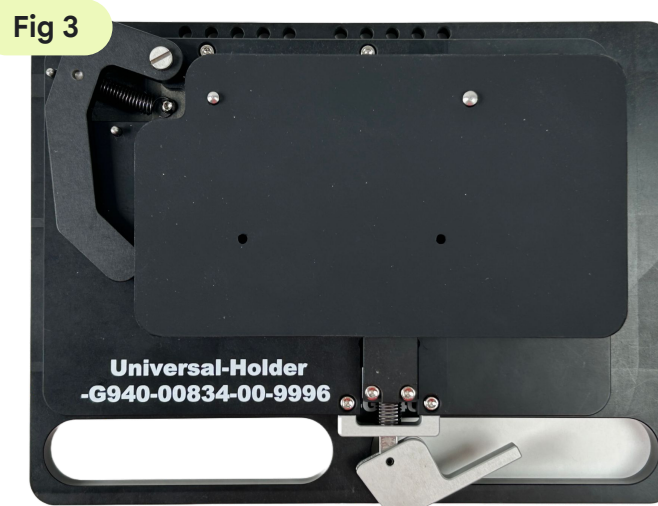
Fig 1



Fig 2



Fig 3



Place in the fixture

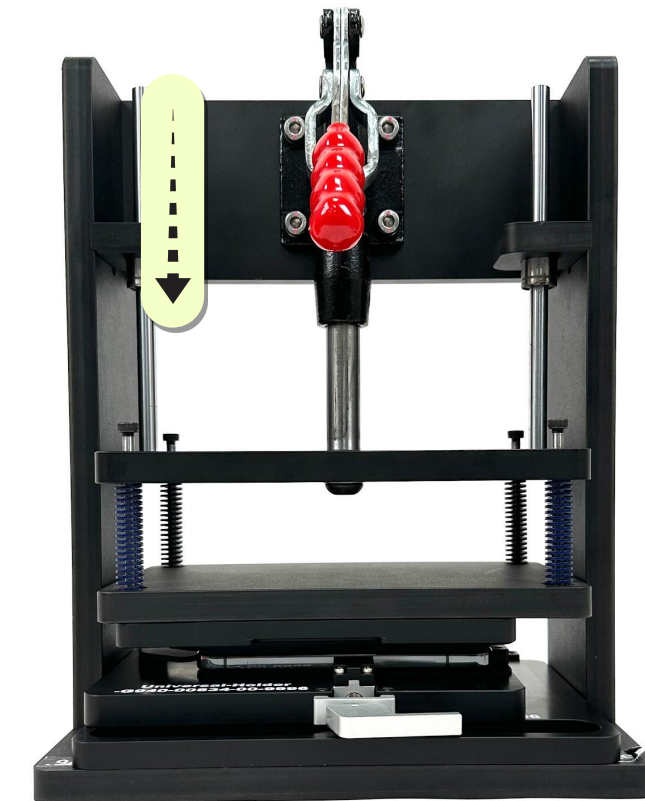
- Place the **universal press plate 12 mm** on the **universal base** as shown in Fig 1.
- Place the stack in the **Pixel universal press fixture**.
- Press the handle down for **30 seconds**.
- Restore the handle to the original position and remove the device.



Use caution

Pinch point.

Keep hands clear during operation.





Pixel 9 Pro XL repair manual

Troubleshooting

Sensor and key feature location

Mic3

Proximity sensor

Connectors location

Top speaker

UDFPS

Power

Bottom speaker

Rear camera

Wireless charge

Vibrator

Front camera

Mic1

Display

USB-C

Mic2

NFC

mmWave module

Sensor and key feature location

Location and description

A Barometer

B Gyroscope

C Accelerometer

D Magnetic

E Rainbow

F TS

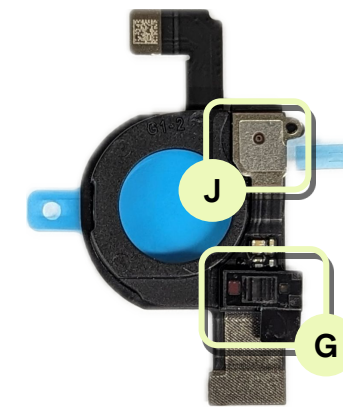
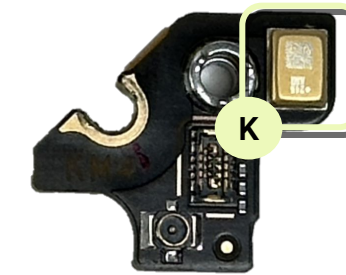
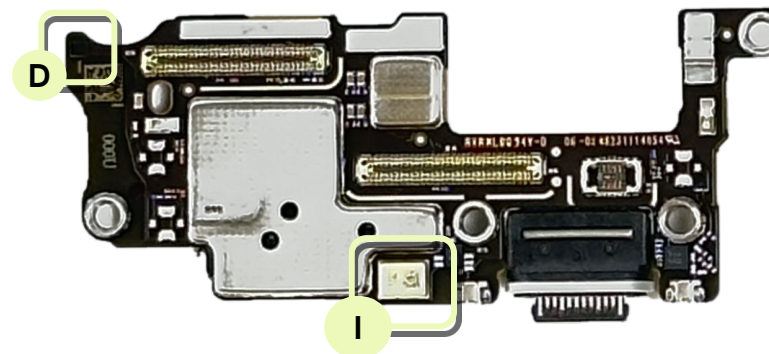
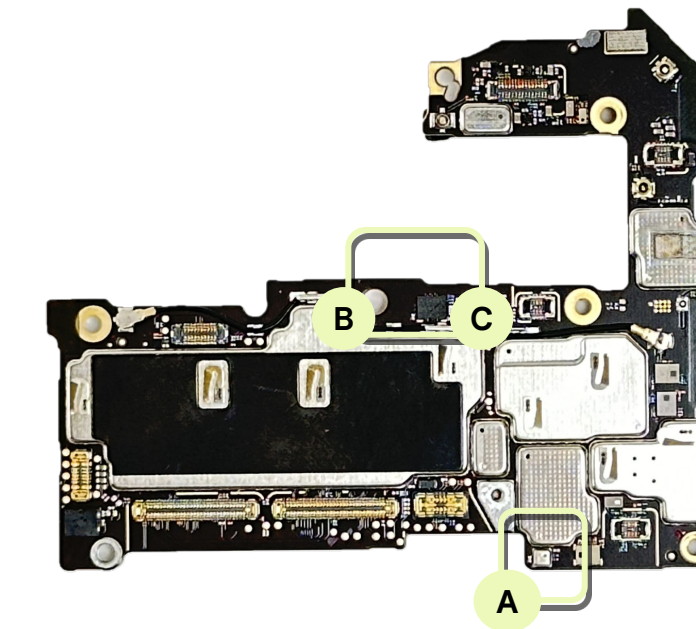
G LDAF

H UWB

I Mic 1

J Mic 2

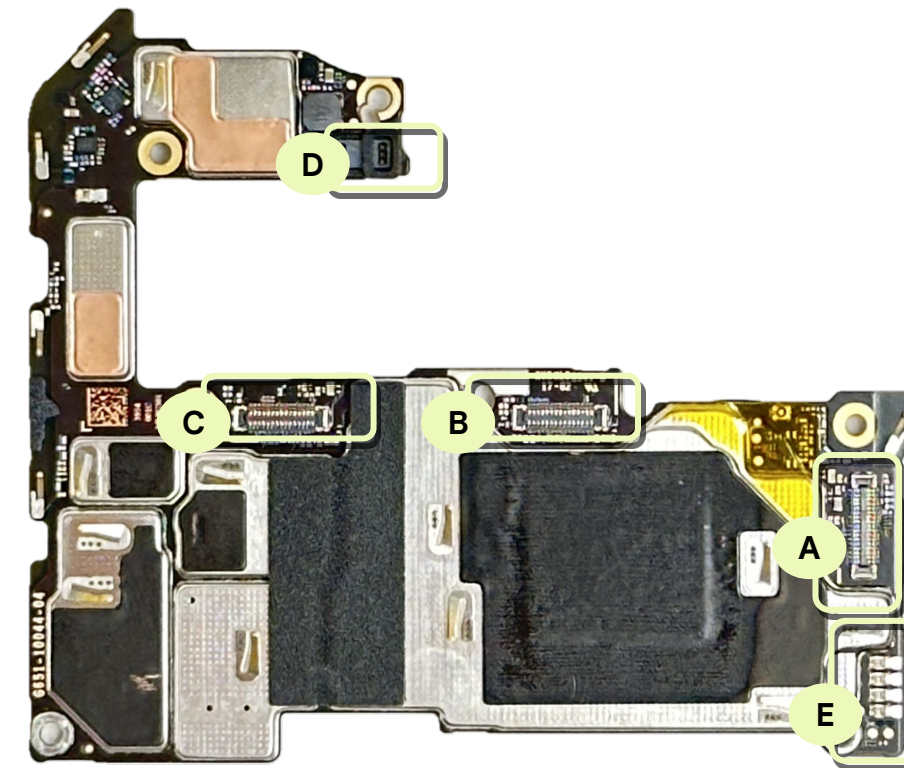
K Mic 3



Connectors location

Location and description

- | | |
|---|----------------------------|
| A | Rear camera main connector |
| B | Rear camera UW connector |
| C | Tele camera connector |
| D | P-sensor or light sensor |
| E | Sidekey pad |



Connectors location

Location and description

F Front camera connector

G mmWave connector

H UWB connector

I BG connector

J LDAF connector

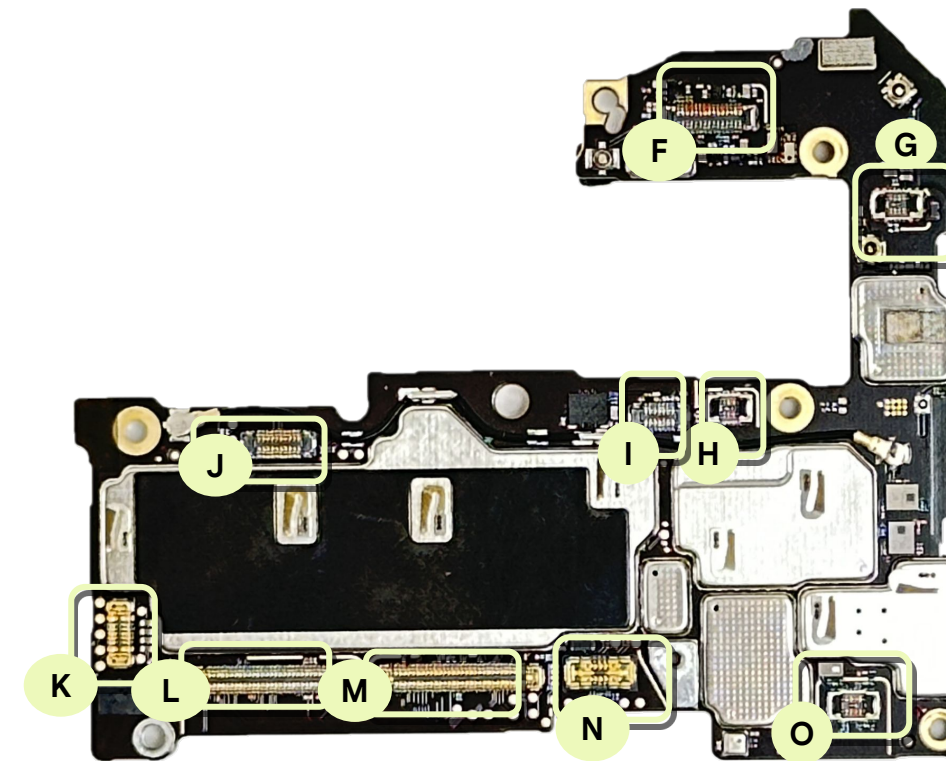
K WLC/NFC connector

L Jumpflex connector

M Jumpflex connector

N Battery connector

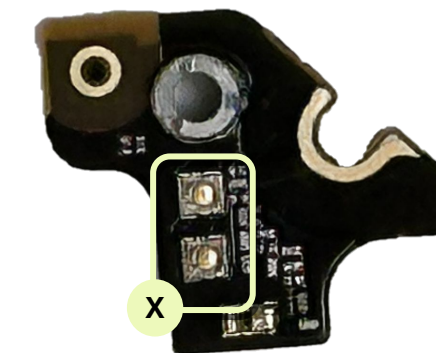
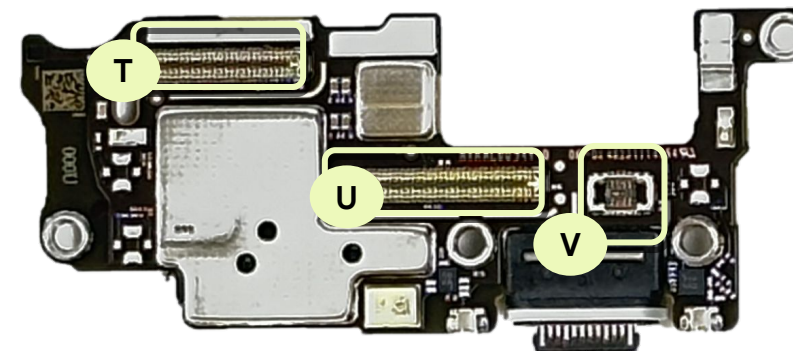
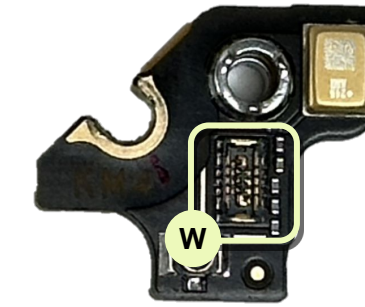
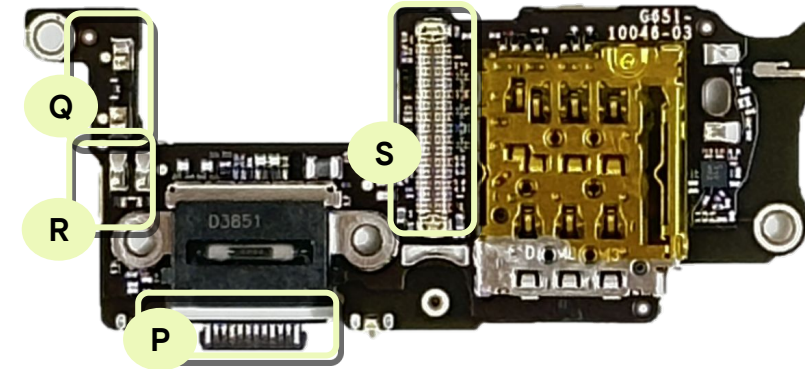
O RF flex connector




Connectors location

Location and description


P	USB port
Q	Vibrator pad
R	Bottom speaker pad
S	Display connector
T	Jumpflex connector
U	Jumpflex connector
V	RF flex connector
W	LDAF connector
X	Top speaker pad





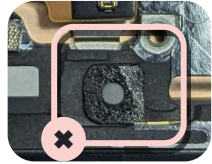
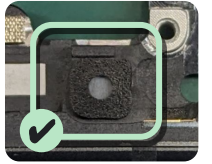
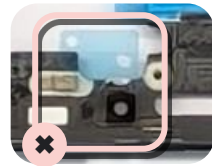
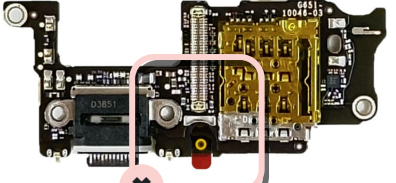
Power

Symptom	Potential root cause	Procedure	
 <p>T001: Doesn't power on T002: Powers off suddenly T004: Wired charging failure T053: Battery damage T054: Battery draining fast T055: Device overheats</p>	Damage	<ul style="list-style-type: none"> Inspect the USB-C connector for debris preventing charging. Inspect the device for damage. Inspect the liquid damage indicators. 	
	Connectivity issue	<ul style="list-style-type: none"> Check if the connectivity between the battery connector and the logic board is normal. If they aren't fully buckled, reassemble and then retest. 	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

Wireless charge

Symptom	Potential root cause	Procedure	
 <p>T003: Wireless charging failure</p>	Connectivity issue	<ul style="list-style-type: none"> Check if the connectivity between the NFC/WLC cowling and the logic board is normal. If they aren't fully buckled, reassemble and then retest. 	Connectors location
	Component issue	<ul style="list-style-type: none"> Use a good NFC/WLC cowling and logic board to cross check with the original ones. Replace the defective component. 	Disassembly <ul style="list-style-type: none"> Logic board NFC/WLC cowling

Mic1

Symptom	Potential root cause	Procedure	
 <p>T010: Mic1 no sound T011: Mic1 low sound T012: Mic1 distorted sound</p>  <p>1 Mic1 2 Mic2 3 Mic3</p>	Mesh not clean	<ul style="list-style-type: none"> Use a microscope and check the mesh for damage or blockage as shown in Fig 1. Clean the mesh and test audio. 	  <p>Shift</p> <p>Fig 1</p>
	Assembly problem	<ul style="list-style-type: none"> Check if the chin board and the enclosure mic1 liner are removed as shown in Fig 2. If not, go to the next step. Test audio again. 	  <p>With liner</p> <p>With liner</p> <p>Fig 2</p>
	Component issue	<ul style="list-style-type: none"> Use a good chin board and enclosure to cross check with the original ones. Replace the defective component. 	<p>Disassembly</p> <ul style="list-style-type: none"> Chin board Enclosure

Mic2

Symptom



T013: Mic2 no sound

T014: Mic2 low sound

T015: Mic2 distorted sound



1 Mic1

2 Mic2

3 Mic3

Potential root cause

Connectivity issue

Assembly problem

Component issue

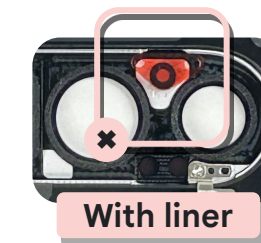
Procedure

- Check if the connectivity between the **LDAF** and the **logic board** is normal.
- If they aren't fully buckled, reassemble and then retest.

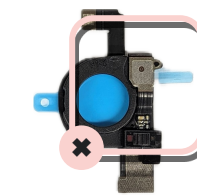
- Check if the **BG mic2 mesh liner** and the **LDAF mic2 liner** are removed. If it's removed, go to the next step.
- Test audio again.

- Use a good **LDAF** and **logic board** to cross check with the original ones.
- Replace the defective component.

Connectors location



With liner



With liner

Disassembly

- Mic2 mesh
- Logic board
- LDAF

Mic3

Symptom



T016: Mic3 - no sound

T017: Mic3 - low sound

T018: Mic3 - distorted sound



1 Mic1

2 Mic2

3 Mic3

Potential root cause

Connectivity issue

Assembly problem

Component issue

Procedure

- Check if the connectivity between the **LDAF, ANT4 board** and **logic board** are normal.
- If they aren't fully buckled, reassemble and then retest.

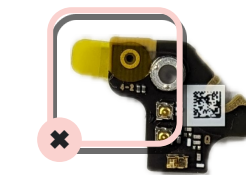
- Check if the **enclosure mic3 mesh liner** and the **ANT4 board mic3 liner** are removed. If it's removed, go to the next step.
- Test audio again.

- Inspect whether the mic3 component is damaged.
- Use a good **ANT4 board, LDAF** and **logic board** to cross check with the original ones.
- Replace the defective component.

Connectors location



With liner




With liner


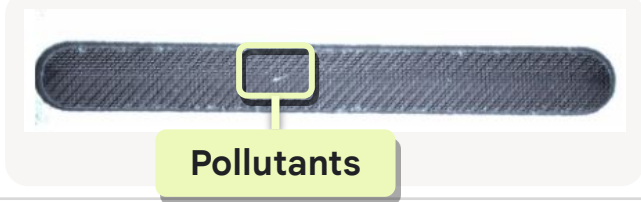
Disassembly

- Logic board
- ANT4 board
- LDAF

Top speaker

Symptom	Potential root cause	Procedure
 <p>T019: Top speaker no sound T020: Top speaker low sound T021: Top speaker distorted sound</p>	Internal debris	<ul style="list-style-type: none"> Disassemble the device and inspect the top speaker. Use an ionizing air fan to remove any debris and test audio.
	Connectivity issue	<ul style="list-style-type: none"> Check the contact condition between the top speaker and the ANT4 board pin contact pad. If there's no mark on the pin contact pad, it shows poor connectivity. If marks are observed, clean the pin contact pad and test again.
	Component issue	<ul style="list-style-type: none"> If the sound quality is still poor, use a good top speaker and ANT4 board to cross check with the original ones Replace the defective component.
		<p>Connectors location</p> <p>Disassembly</p> <ul style="list-style-type: none"> Top speaker ANT4 board

Bottom speaker

Symptom	Potential root cause	Procedure	
 <p>T023: Bottom speaker no sound T024: Bottom speaker low sound T025: Bottom speaker distorted sound</p>	Mesh problem	<ul style="list-style-type: none"> Visually inspect the exterior of the phone check for a polluted mesh on the bottom speaker port. Use a soft ESD brush to remove any debris. Test audio. 	
	Internal debris	<ul style="list-style-type: none"> If the sound quality is still poor, inspect the mesh and the bottom speaker with a microscope. Disassemble the device and inspect the bottom speaker. Use an ionizing air fan to remove any debris and test audio. 	
	Connectivity issue	<ul style="list-style-type: none"> Check the contact condition between the bottom speaker and the chin board pin contact pad. If there's no mark on the pin contact pad, it shows poor connectivity. If marks are observed, clean the pin contact pad and test again. 	Connectors location
	Component issue	<ul style="list-style-type: none"> If the sound quality is still poor, use a good bottom speaker and chin board to cross check with the original ones Replace the defective component. 	Disassembly <ul style="list-style-type: none"> Bottom speaker Chin board

Vibrator

Symptom



T026: Vibrator failure

Potential root cause

Connectivity issue

Component issue

Procedure


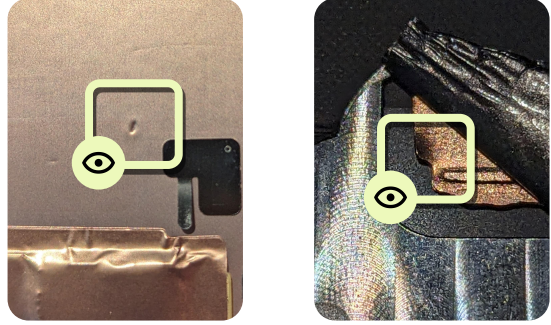
- Check if the connectivity between the **vibrator** and the **chin board** is normal. Connectors location
- Test the **vibrator** again. Check the function by triage test.

- Use a good **vibrator** and **chin board** to cross check with the original ones.
- Replace the defective component.


Disassembly

- Vibrator
- Chin board


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> <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> <p>T037: Display shadow</p> <p>T038: Display permanent burnin</p> <p>T039: Display temporary burnin</p>	<p>Damage</p>	<ul style="list-style-type: none"> Inspect the display for damage and replace it if necessary. Inspect whether the VC edge is flat or not. 	
	<p>Connectivity issue</p>	<ul style="list-style-type: none"> Check if the connectivity between the display connector and the chin board is normal. If they aren't fully buckled, reassemble and then retest. 	<p>Connectors location</p>
	<p>Dead pixels</p> <p>Distorted graphics</p> <p>Flickering</p> <p>Color issues</p>	<ul style="list-style-type: none"> Remove the display module, fit a replacement part without adhesive and test. If the issue is resolved, apply adhesive and fit a new display module. 	<p>Disassembly</p> <ul style="list-style-type: none"> Display

Display-cont.

Symptom	Potential root cause	Procedure	
 <p>T040: Display single crack T041: Display multiple cracks T043: Display cosmetic defects</p>	Touch screen fingerprint sensor	<ul style="list-style-type: none"> Remove the display module, fit a replacement part without adhesive and test. If the issue is resolved, apply adhesive and fit new display module. 	Disassembly <ul style="list-style-type: none"> Display
<p>T044: Multi-touch poor response T045: Multi-touch no response T046: Multi-touch erratic response</p>	Component issue	<ul style="list-style-type: none"> Use a good display and chin board to cross check with the original ones. Replace the defective component. 	Disassembly <ul style="list-style-type: none"> Chin board Display

NFC


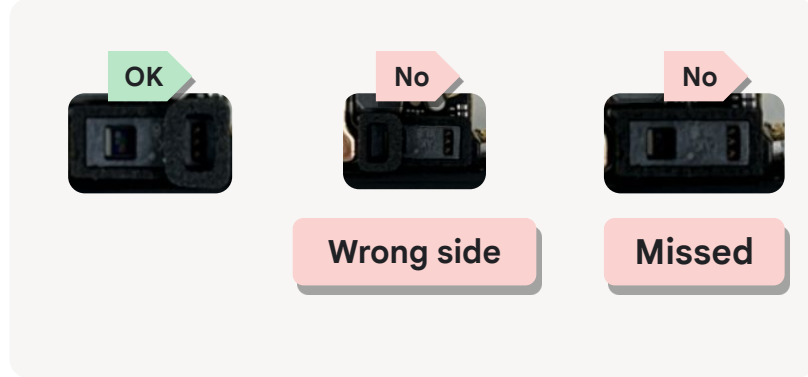
Symptom	Potential root cause	Procedure
 T051: NFC connectivity issues	Connectivity issue	<ul style="list-style-type: none">• Check if the connectivity between the WLC/NFC connector and the logic board is normal.• If they aren't fully buckled, reassemble and then retest.
	Component issue	<ul style="list-style-type: none">• Use a good NFC/WLC cowling and logic board to cross check with the original ones.• Replace the defective component.

Connectors location


Disassembly

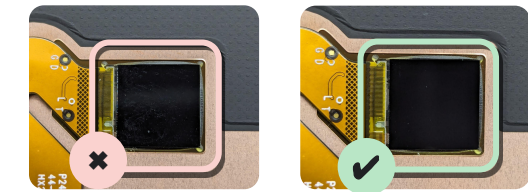
- Logic board
- NFC/WLC cowling

Proximity sensor

Symptom	Potential root cause	Procedure	
 T059: Proximity sensor failure	Assembly issue	Check if the p-sensor foam is posted flat or not.	<p>Assembly</p> <ul style="list-style-type: none">P-sensor foam status 
	Component issue	<ul style="list-style-type: none">Disassemble and check the appearance of the proximity sensor without abnormality.Use a good p-sensor foam to check the logic board.Replace the defective component.	<p>Disassembly</p> <ul style="list-style-type: none">Logic board

UDFPS


Symptom	Potential root cause	Procedure
 T064: Fingerprint sensor failure	Interference issue	Remove any screen protector prior to testing related to display function.
	Damage	<ul style="list-style-type: none"> Inspect the display for damage and replace if necessary. Inspect the UDFPS area. If it's dirty, clean it with a dust-free cloth.
	Connectivity issue	<ul style="list-style-type: none"> Check if the connectivity between the display connector and the chin board is normal. If they aren't fully buckled, reassemble and then retest.
	Component issue	<ul style="list-style-type: none"> Use a good display and chin board to cross check with the original ones. Replace the defective component.




Disassembly

- Chin board
- Display


Rear camera

Symptom	Potential root cause	Procedure	
 <p>T072: Camera AR failure</p> <p>T073: Camera rear photo quality</p> <p>T074: Camera rear video quality</p> <p>T077: Camera flash not working</p> <p>T078: Cannot switch between cameras</p> <p>T079: Camera damage</p> <p>T111: Main RCAM crashes</p> <p>T112: UW RCAM crashes</p> <p>T114: Main RCAM no preview</p> <p>T115: UW RCAM no preview</p> <p>T116: Ultrawide rear camera photo quality</p> <p>T117: Ultrawide rear camera video quality</p>	Damage	<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 issue	<ul style="list-style-type: none"> Check if the connectivity between the rear camera connector and the logic board is normal. If they aren't fully buckled, reassemble and then retest. 	Connectors location
	Component issue	<ul style="list-style-type: none"> Use a good rear camera and logic board to cross check with the original ones. Replace the defective component. 	<p>Disassembly</p> <ul style="list-style-type: none"> Rear camera Logic board


Front camera

Symptom	Potential root cause	Procedure	
 <p>T075: Camera front photo quality</p> <p>T076: Camera front video quality</p> <p>T078: Can't switch between cameras</p> <p>T079: Camera damage</p> <p>T110: FCAM crashes</p> <p>T113: FCAM no preview</p>	Damage	Inspect the display and the camera for damage.	
	Connectivity issue	<ul style="list-style-type: none"> Check if the connectivity between the front camera connector and the logic board is normal. If they aren't fully buckled, reassemble and then retest. 	Connectors location
	Image quality	<ul style="list-style-type: none"> Connect a new front camera to test. If the issue is resolved, proceed with the front camera replacement and assemble the device. 	Disassembly <ul style="list-style-type: none"> Front camera
	No image	If camera issue remains, replace the logic board .	Disassembly <ul style="list-style-type: none"> Logic board

USB-C

Symptom	Potential root cause	Procedure	
 <p>T083: USB-C port corrosion T084: USB-C port damage T085: USB-C failure</p>	Damage	<ul style="list-style-type: none"> Inspect the USB-C connector for debris preventing charging. Inspect the device for damage. Inspect the liquid damage indicators. 	
	Connectivity issue	<ul style="list-style-type: none"> Check if the connectivity between the jumpflex connector and the chin board is normal. If they aren't fully buckled, reassemble and then retest. Check if the connectivity between the jumpflex connector and the logic board is normal. If they aren't fully buckled, reassemble and then retest. 	Connectors location
	Component issue	<ul style="list-style-type: none"> Use a good jumpflex and chin board to cross check with the original ones. Replace the defective component. Use a good jumpflex and logic board to cross check with the original ones. Replace the defective component. 	Disassembly <ul style="list-style-type: none"> Jumpflex Chin board Logic board

mmWave module

Symptom	Potential root cause	Procedure	
 T105: 5G_low_med_band_failure T106: 5G_high_band_failure	Damage	<ul style="list-style-type: none"> Inspect the mmWave module for damage. 	
	Connectivity issue	<ul style="list-style-type: none"> Check if the connectivity between the mmWave connector and the logic board is normal. If they aren't fully buckled, reassemble and then retest. 	Connectors location
	Component issue	<ul style="list-style-type: none"> Connect a new mmWave module to test. If the issue is resolved, proceed with mmWave module replacement and assemble device. If the mmWave module issue remains, replace the logic board. 	Disassembly <ul style="list-style-type: none"> mmWave Logic board



Pixel 9 Pro XL repair manual

Testing

Software tools

Description

Update or reinstall the software on Pixel devices

Documentation

pixelrepair.withgoogle.com