Pixel 10 Pro

Repair manual

Version 1.1, July 2025



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

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



Use caution if you engage in repair.

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

Welcome!

We are here to help.

At Google, we innovate, design, and build to create helpful and sustainable products. Product longevity is important to us and repairability is part of that. Repair 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 might 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 in the same language to colleagues and customers.

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Disassembly

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- Logic board
- Rear camera
- Top speaker
- Bottom speaker
- Chin board
- Vibrator
- Enclosure

Assembly

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

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- Front camera
- USB-C
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Software

- Software tools

Revision history

Version	Date	Change description
V1.0	July, 2025	First release
V1.1	August,2025	1. Add torque spec. P11 2. Define the depth of opening pick in caution. P51 3. Sub6 model and mmWave model type are swapped.P63 4. Add a note “This step is only required when replace SPAM flex or RCAM”. P90 5. Identify the area to apply IPA. P116 6. Add a picture of the mic3 mesh with the alignment line. P138 7. Add picture and texts to emphasize coaxial cable routing. P141 8. Identify CG liner area. P168 9. Add shear PSA alignment line. P170 10. Add the direction of removing the white liner. P191 11. Revise LDI quantity and photo. P14 12. Add new thermal grease (G160-01481-00). P25, P80, P130 13. Change battery assembly liner picture. P23, P191 14. Add one page for bottom speaker removal. P99



Pixel 10 Pro repair manual

Precautions

Important: Before you begin



Be careful if you engage in repair

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

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

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

Always ensure that screws are securely fastened.

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



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

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



Use caution: Pixel 10 Pro 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 might result in hazardous radiation exposure.

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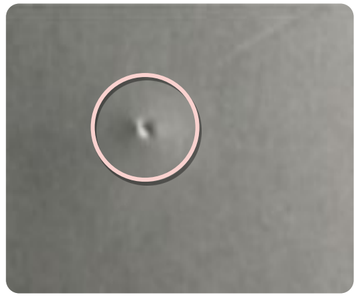
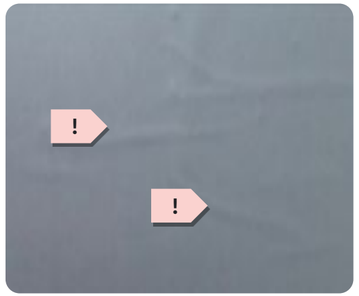
Use caution ⚠

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

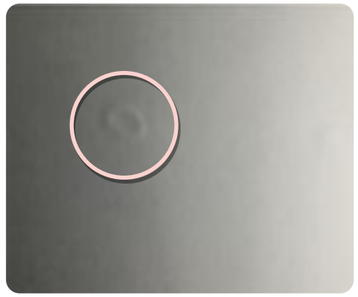

Pouch damage

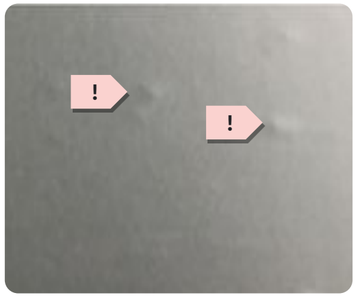


Line protrusion

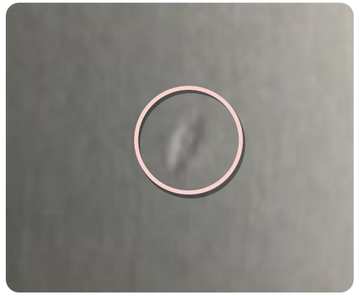


Scratch


Contamination mark

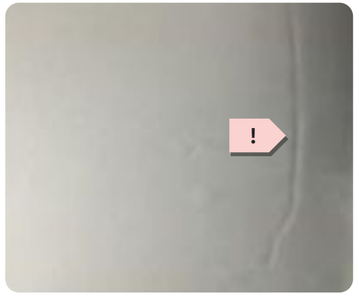


Dot protrusion

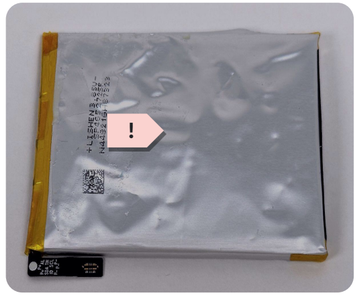

Dent



Bubbling



Imprinted line



Swelling or electrolyte leakage

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

Pixel 10 Pro repair manual

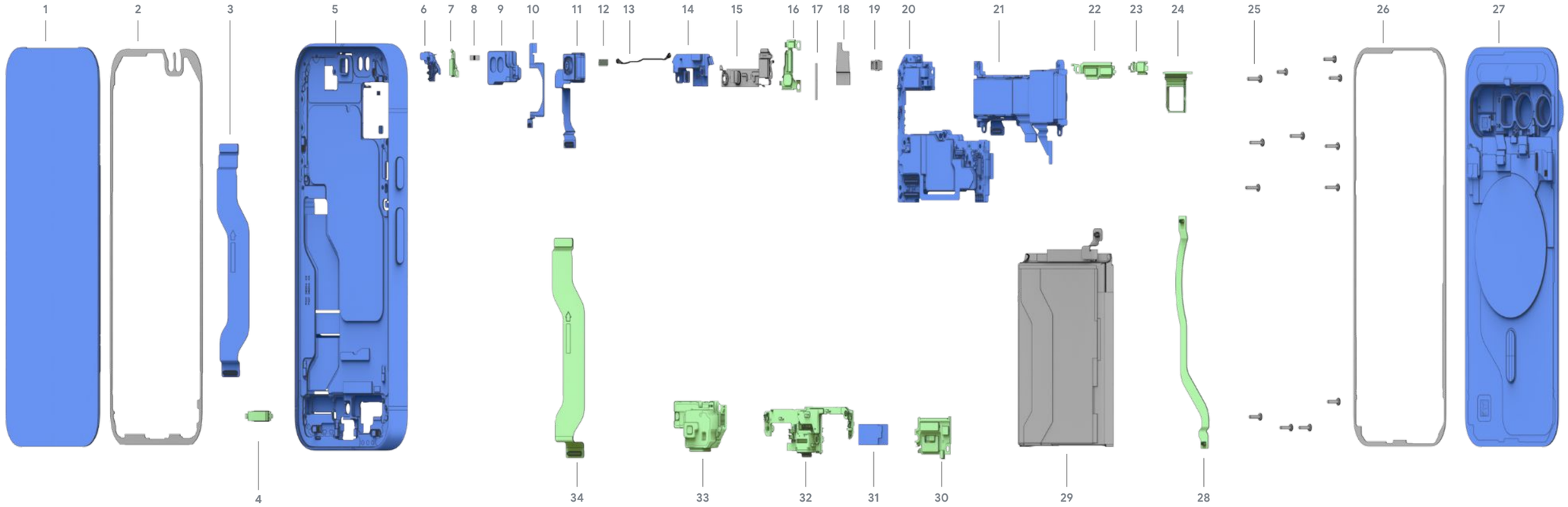
Introduction

Expanded view
Screw map
Screen calibration
ESD protection
Liquid damage indicators
Turn the Pixel on and off
Tools and fixtures
Replacement parts
Glossary

Pixel 10 Pro: Expanded view

Reuse indications

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



Pixel 10 Pro part ID

1	Display module	**8**	Top speaker FoF	**15**	FCAM cowling	**22**	Tele cowling	**29**	Battery
2	Display adhesive	**9**	Top speaker	**16**	Battery cowling	**23**	RF cowling	**30**	CLB cowling
3	DJ flex	**10**	SPAM flex	**17**	Strip shield 1	**24**	SIM tray_Sub6	**31**	Vibrator
4	Display cowling	**11**	Front camera	**18**	Strip shield 2	**25**	Screw	**32**	Chin board
5	Enclosure	**12**	Thermal TIM_mmWave	**19**	P-sensor foam	**26**	BG adhesive	**33**	Bottom speaker
6	ANT4 board	**13**	Coaxial cable	**20**	Logic board	**27**	BG sub	**34**	CJ flex
7	ANT4 cowling	**14**	mmWave module	**21**	Rear camera	**28**	RJ flex		

Screw map

Here’s the list of screws used in the Pixel 10 Pro:

Screw G250-07876-04	Screw G250-07891-05	Screw G250-07839-04	Screw G250-07891-04	Screw G250-07878-04
				

◯ - Not hidden ◌ - Hidden



⚠ 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.

Torque Spec:
(1.5/1.8) ±0.05kgf-cm

After removal, always replace a new screw.

Each screw is critical for 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.

Touch screen calibration process

Important:

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 when you press 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 is not followed, the touch function of the screen might not work as intended.

ESD protection

Electro Static Discharge (ESD) could 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

Carry out repairs on an ESD mat, while the person who repairs the device wears a grounded ESD strap.

Avoid static buildup

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

Protective bags

Pack all ESD-sensitive parts in metalized protective bags during shipping.

Avoid touching the pins

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

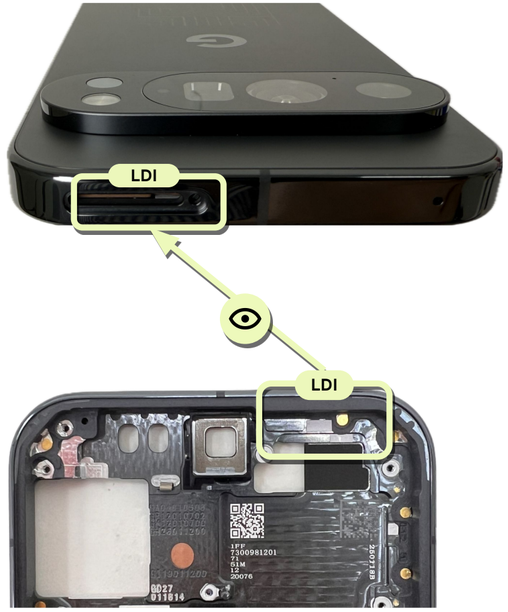
Did you know?

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

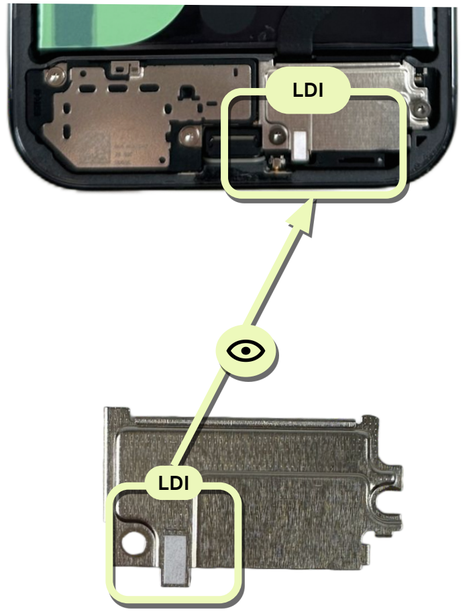
Liquid damage indicators

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

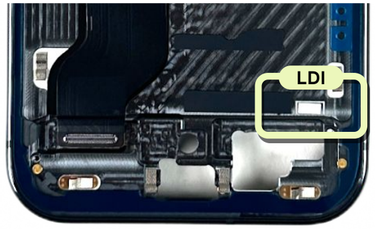
- Exposure to liquids could lead to the device malfunction, such as overheating or short circuits.
- There are three LDIs on this device.
- If either indicator has turned red, the device is considered to be exposed to liquid.



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



On the **CLB cowling**, near the charge port.



On the **enclosure** (CG side).

Turn the Pixel on and 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 the phone when it's turned on:
  - Press and hold the power and volume up buttons for a few seconds.
  - Tap **Power off** on screen.

For further information, see this Google help page.

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



Turn the screen off and on

- To turn the screen off and on when the 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 the 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 strongly recommended to repair a device in a safe and effective manner.

Use caution:

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

Tools and fixtures

Google-approved fixtures: Pixel 10 Pro

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 10 Pro battery press rubber

G940-01038-00



Pixel 10 Pro BG press rubber

G940-01039-00



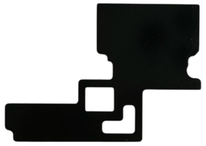
Pixel 10 Pro CG press rubber

G940-01040-00



Pixel 10 Pro thermal grease alignment fixture

G940-01043-00



Tools and fixtures

Standard tools

Standard 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

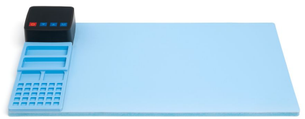
Hex shank torx plus bit 3



SIM card ejection pin



Heat plate



Absorption-bulb



Small suction cup



Tools and fixtures

Standard consumables

Standard 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



Tools and fixtures

Safety items

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

Safety glasses



Heat resistant protective gloves



Cut resistant protective gloves



Nitrile or lint-free gloves



Sand bucket



Replacement parts

Important 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.

Use caution

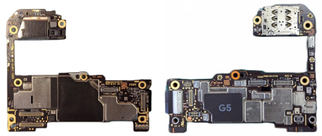
Use of replacement parts other than Google-authorized replacement parts, such as aftermarket batteries, might impact device safety, reliability, and performance.

Replacement parts

Reuse indications

- Reusable without cleaning
- Reusable after cleaning
- Not reusable after disassembly

Logic board
Multiple part numbers



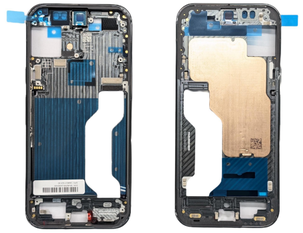
Display module
G949-01418-00



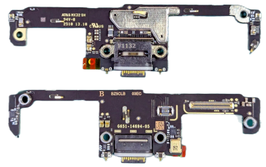
BG sub
Multiple part numbers



Enclosure
Multiple part numbers



Chin board
G949-01435-00



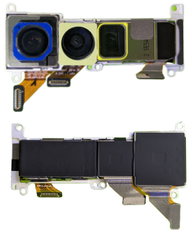
ANT4 board
G949-01436-00



Front camera
G949-01437-00



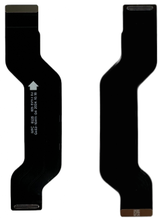
Rear camera
G949-01438-00



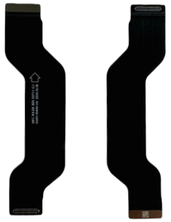
SPAM flex
G949-01439-00



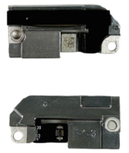
DJ flex
G949-01440-00



CJ flex
G949-01441-00



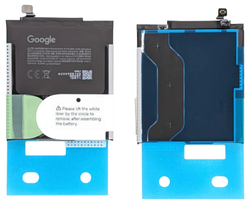
mmWave module
G949-01442-00



Replacement parts

Reuse indications — Reusable without cleaning | Reusable after cleaning | Not reusable after disassembly

Battery
Multiple part numbers



Display adhesive
G806-20010-50



BG adhesive
G806-13890-33



Top speaker FoF
G806-15608-00



P-sensor foam
G806-13064-01



Strip shield 1
G806-16681-01



Strip shield 2
G806-15985-01



Vibrator
G710-07500-00



Bottom speaker
G863-00649-04



Top speaker
G863-00688-01



RJ flex
G652-10414-03



SIM tray_Sub6
Multiple part numbers



Replacement parts

Reuse indications — Reusable without cleaning | Reusable after cleaning | Not reusable after disassembly

Coaxial cable
G821-01167-03



Thermal TIM_mmWave
G864-01024-03



Heatsink_Sub6
G850-00756-00



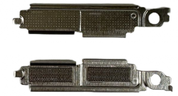
ANT4 cowling
G730-09426-01



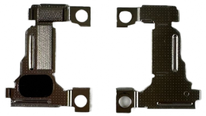
RF cowling
G730-09804-01



Tele cowling
G730-10080-01



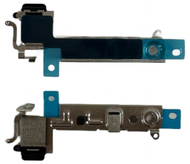
Battery cowling
G730-09803-01



CLB cowling
G730-09460-11



FCAM cowling_mmWave
G730-09462-25



FCAM cowling_Sub6
G730-09462-26



Display cowling
G730-10011-13



Screw
G250-07876-04



Replacement parts

Reuse indications — Reusable without cleaning | Reusable after cleaning | Not reusable after disassembly

Screw
G250-07891-05



Screw
G250-07839-04



Screw
G250-07891-04



Screw
G250-07878-04



Bottom speaker foam
G806-16072-15



*Material expires

Thermal grease
G160-01459-00
G160-01481-00



Vibrator PSA
G806-13155-00



Top speaker adhesive
G806-13668-10



SPAM flex PSA
G806-16180-00



FCAM CPSA
G806-14192-01



DJ shear PSA
G806-20030-24



Extended foam
G806-14748-02



Replacement parts

Reuse indications — Reusable without cleaning | Reusable after cleaning | Not reusable after disassembly

Mic3 mesh
G806-14784-30



FoF
G806-11578-02



Glossary

Glossary

Acronym or term	Definition
ESD	**Electro Static Discharge** The sudden flow of electricity through two electrically charged objects.
IPA	**Isopropyl Alcohol** Used to clean components and enclosures. Comes as pads or a solution.
FPC	**Flexible Printed Circuit** A type of low profile and flexible printed circuit.
OLED	**Organic Light-Emitting Diode** A type of flat panel display with an OLED to show images.
mmWave	**Millimeter Wave** The radio waves used to build a 5G network, to provide fast and reliable mobile data.
Sub6	**Sub-6 GHz** Refers to mid- and low-frequency bands under 6 GHz.
NG	**Not Good. Usually refers to a condition that is not acceptable.**
SBOM	**Service Bill Of Materials**

Glossary

Acronym or term	Definition
Display module	The OLED, glass cover, and sometimes other components such as the fingerprint sensor. Also known as: Cover Glass (CG), Screen, Display
Logic board	The main electronic component in the device with the processor, memory, storage, and often Wi-Fi and bluetooth components all soldered on. Also known as: MLB, Main logic board, Main board, PCBA
Microphone	The component used to capture audio to make a call, video, or dictate some notes. Also known as: Mic, Mic 1 bracket
Enclosure	The housing that contains the buttons and provides protection for the logic board and other components. Also known as: Housing (HSG), Rear cover, Back cover, Bottom case, Back Glass (BG)
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
Camera	Camera modules include the front camera and rear cameras. Also known as: CAM, FCAM, RCAM
Pressure sensitive adhesive	The adhesive that is used to bond the enclosure and display module, battery and enclosure, or other parts. Also known as: PSA
UDFPS	Under Display FingerPrint Sensor Also known as: Fingerprint sensor
TS	Temperature Sensor
Release liner	This is a tool used to transport sensitive parts, including adhesives. It needs to be removed during installation for the device to function as intended.
UW	Ultra Wide
LDAF	Laser Detect Auto Focus

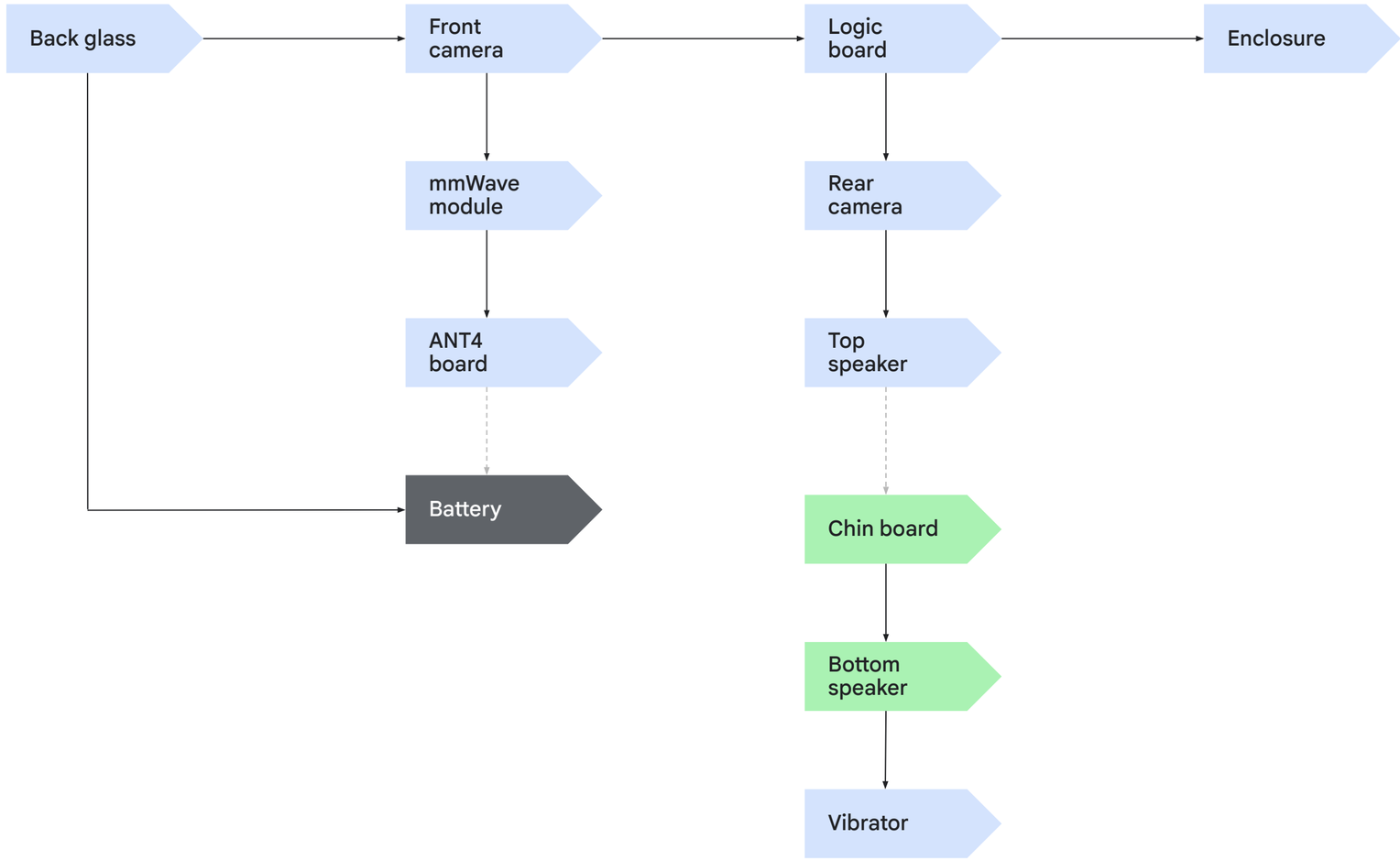
Pixel 10 Pro repair manual

Repair flows

Disassembly order

Assembly order

Pixel 10 Pro- disassembly flowchart



How to read this chart

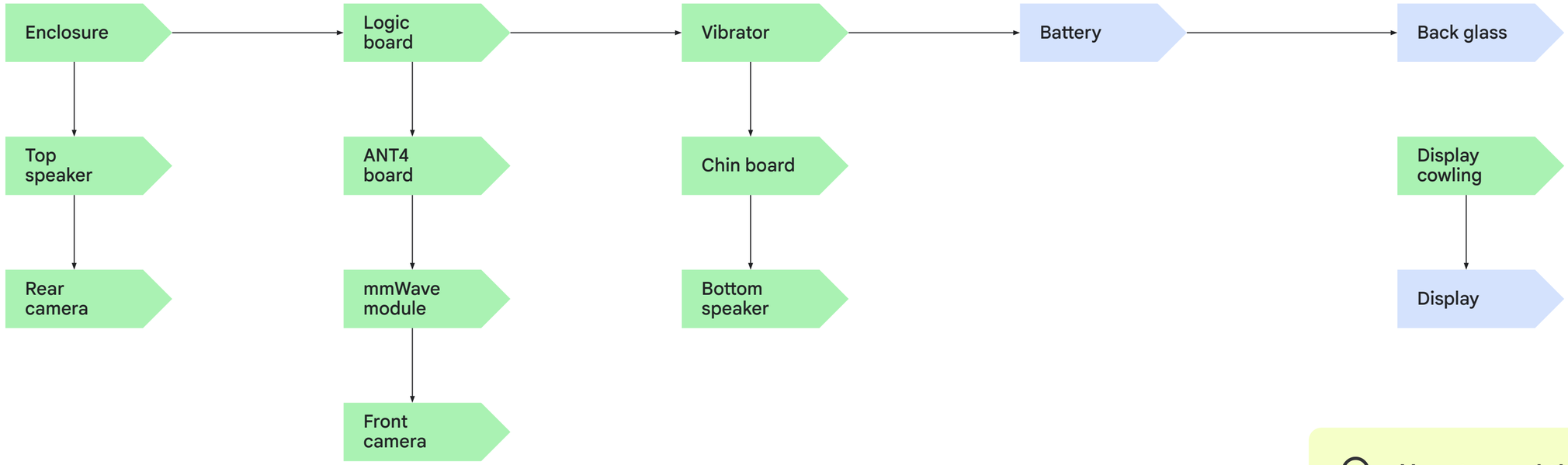
To remove the ANT4 board:
Remove the back glass, then the ANT4 board.

To remove the battery:
Remove the back glass, then the battery.

To remove the logic board:
Remove the back glass, front camera, mmWave module, battery, then the logic board.

To remove the bottom speaker:
Remove the back glass, then the bottom speaker.

Pixel 10 Pro- assembly flowchart



How to read this chart

Back glass side:
Follow the step by step procedure to reinstall when you replace the enclosure.

Display side:
Install the **display cowling**, then the **display**.

Pixel 10 Pro repair manual

Disassembly

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

Disassembly instructions

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** when you handle damaged displays, 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, be sure to **power off** the device and disconnect any charging cables.

Tools

- Heat plate
- Universal disassembly fixture V3
- Universal base 12 mm
- Universal holder
- Universal holder limiting block
- Universal press plate 12 mm
- Universal press fixture
- Pixel 10 Pro BG press rubber
- Pixel 10 Pro CG press rubber
- Absorption-bulb
- 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 cleaning
- Reusable after cleaning
- Not reusable after disassembly

Display module

G949-01418-00



Display adhesive

G806-20010-50



Display cowling

G730-10011-13



DJ shear PSA

G806-20030-24



Soften the adhesive

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



Use caution

Heat plate is hot and could cause burns.

Use **safety gloves** to handle damaged displays, as splinters during removal could cause injury. Apply **protective film** to broken glass before removal.

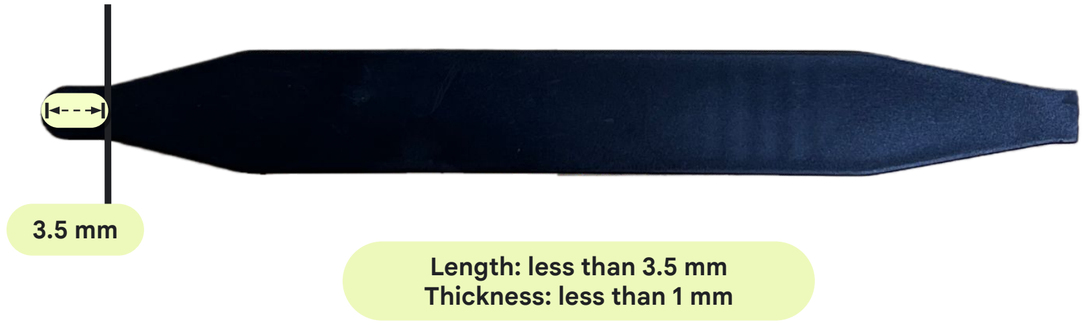
Review all **safety precautions** before you begin work.

Note

Don't heat the visor area.

Mark the ESD spudger

- Use an **ESD spudger** to carefully separate the **display** from the **enclosure**.
- Measure **3.5 mm** from the tip and mark the **ESD spudger** with a permanent marker for reference. Ensure a clear visibility as adhesive widths vary.



Use caution

Avoid deep insertion that might damage the device.

Use the fixture

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

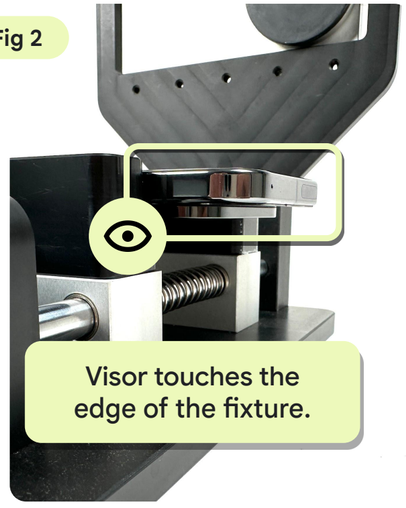
> **Note**
>
> Remove the display front protective film to attach the **suction cup**.
>
> A **groove** prevents accidental pressing of the power button.

Fig 1



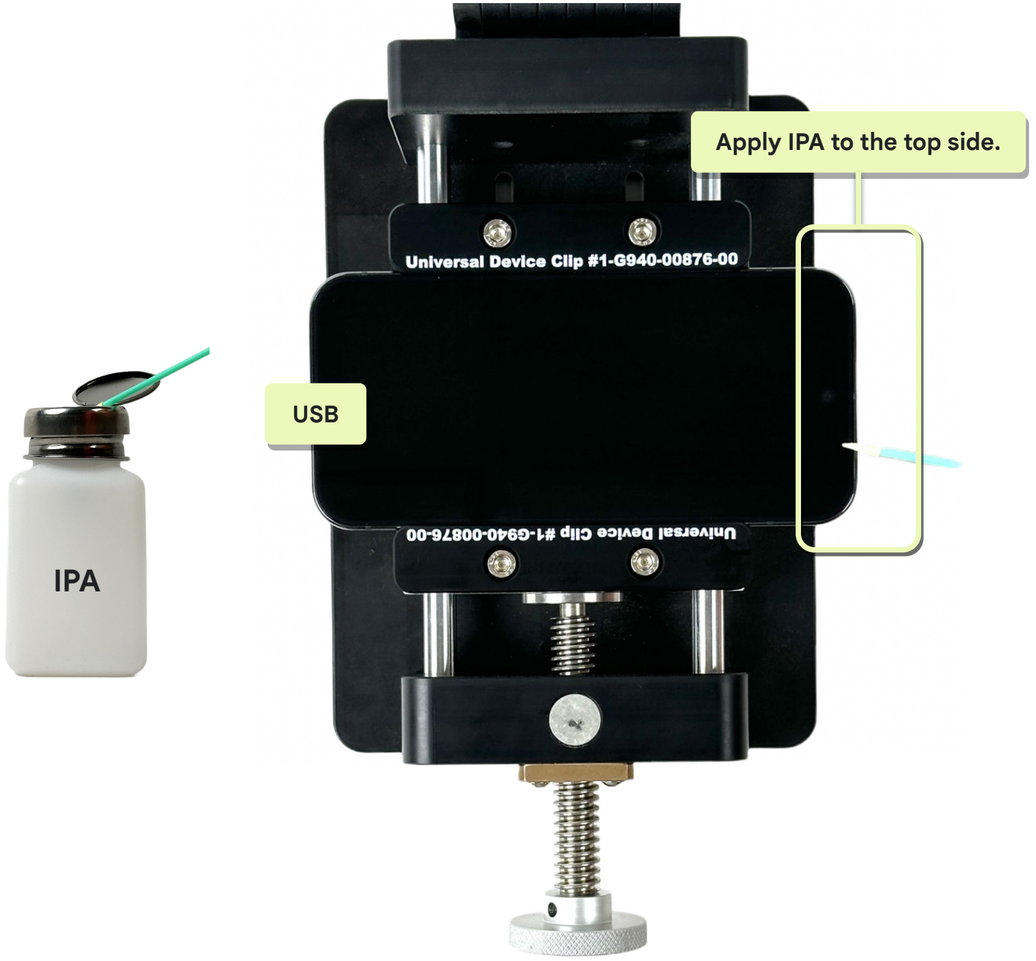


Fig 2



Prepare for disassembly

Before you close the lid, dampen a **dust-free cotton swab** with **IPA** and apply it in the gap between the **display** and the **enclosure** on the **top side**.



Separate the display

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



Fig 1

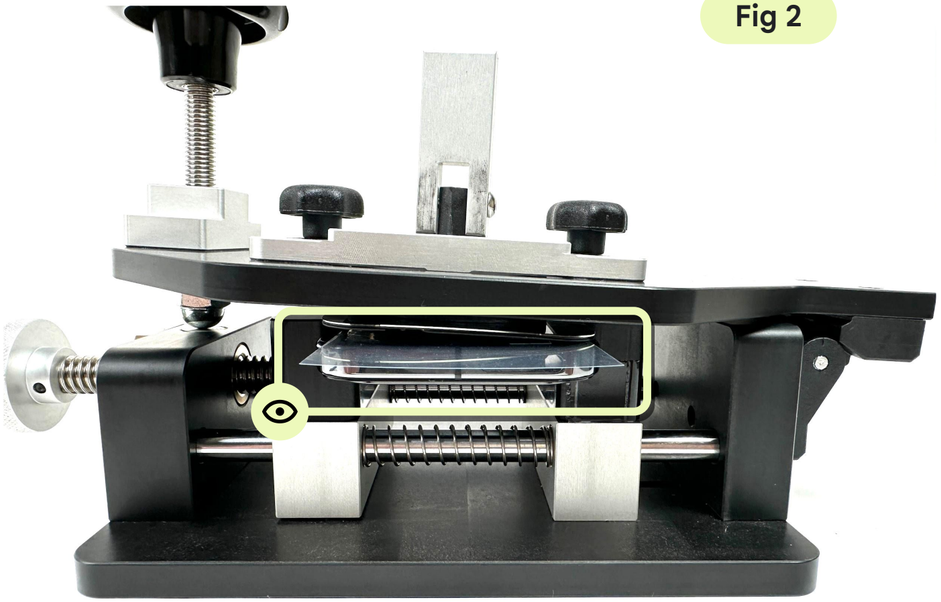


Fig 2

Use caution

Use **safety gloves** to handle damaged displays, as they could splinter and cause injury. Apply **protective film** to broken glass before removal.

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

Separate the display adhesive

- Insert the **ESD spudger** into the device's **top side**.
- Remove the device from the **universal disassembly fixture V3**.
- Manually slide the edges with the proper amount of **IPA**.
- Slide it parallel to the **display** down, the left and right sides as shown in Fig 2.
- Pry at a 45 degrees angle on the bottom side to avoid the insertion between the **display** and **trim** as shown in Fig 3.

Use caution

Avoid the damage to the **display spring** and **driver IC** areas as shown in Fig 1.

Insert an **ESD spudger**, not more than **3.5 mm**.

Disassembly sequence

1 (in the fixture; insert ESD spudger to the top) ➜ 2 (right) ➜ 3 (left) ➜ 4 (bottom)

To prevent the adhesive from sticking, avoid removing the release liner.

Fig 1



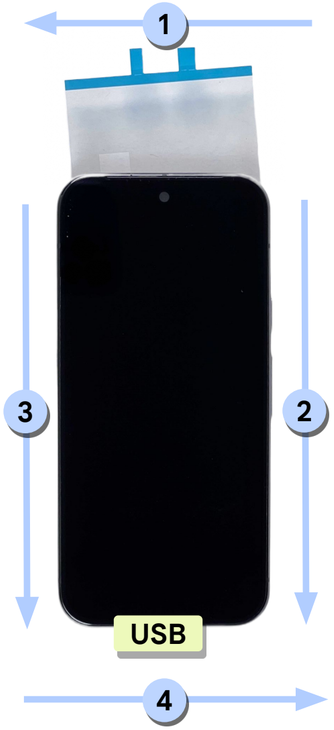
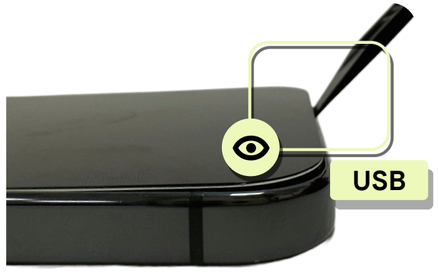


Fig 2



Fig 3



Prop the display

- Use the **absorption bulb** to hold the **display**.
- Avoid touching the **graphite**.

Use caution

Avoid stretching the **display flex** to prevent damage.

Be cautious not to damage the **spring, FoF**, and **graphite** during the process.

Be careful not to get cut by the **metal trim**.



Remove the cowling

- Gently push the **display cowling** to release the latch.
- Push it to the right with your **hand** to eject it.

Part: G730-10011-13 (display cowling)



Note

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

Finished! Want assembly instructions? ➜

Disconnect the display

- Detach the **display connector** with an **ESD spudger**.
- Slowly peel off the **DJ shear PSA** with your hand by pulling **DJ flex** towards the **display connector**.
- Remove the **display module**.

Part: G949-01418-00 (display module)

Part: G806-20030-24 (DJ shear PSA)

Note

Use an **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, be sure to **power off** the device and disconnect any charging cables.

Tools

- Universal base 12 mm
- Universal holder
- Universal holder limiting block
- Universal press plate 12 mm
- Universal press fixture
- Pixel 10 Pro CG press rubber
- Pixel 10 Pro BG press rubber
- Absorption bulb
- Small suction cup
- Opening pick
- Torx plus 3IP screwdriver
- ESD tweezers
- ESD spudger
- 3M AP111 primer
- Dust-free cotton swabs
- IPA and cloth

Required parts

BG sub

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

Reuse indications

- Reusable without cleaning
- Reusable after cleaning
- Not reusable after disassembly

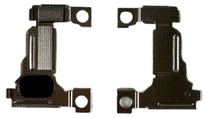
BG sub
Multiple part numbers



BG adhesive
G806-13890-33



Battery cowling
G730-09803-01



Screw
G250-07876-04



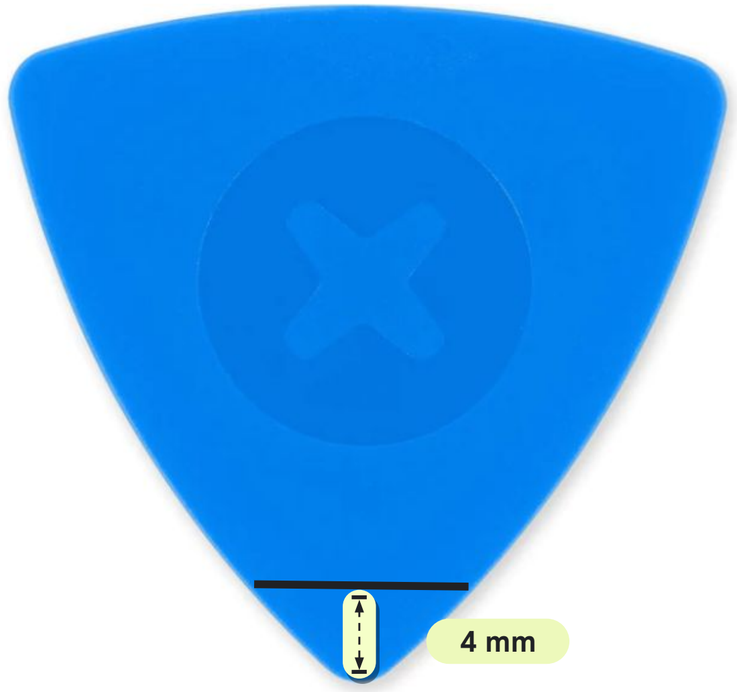
Mark the opening pick

Measure **4 mm** from the tip and mark the **opening pick**.

Use caution

Follow the steps to mark your pick and prevent damage.

A thicker **opening pick** could crack the **back glass**.



Depth: less than 4 mm
Thickness: less than 1 mm

Apply the small suction cup

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



Separate the BG

- Hold the device with one hand and firmly pull up the **small suction cup** with the other until a gap forms between the **BG** and the **enclosure**.
- Insert the **opening picks** into the gap to the **4 mm** mark.

> **Note**
>
> If you can’t create a gap, heat the **BG** side of the **enclosure** on a **heat plate** at **10°F (60°C)** for **10 minutes** and try again.





Separate the BG adhesive

Slide the **pick** clockwise through the edges.

Disassembly sequence

1 (insert opening pick to bottom) ➜ 2 (left) ➜ 3 (top) ➜ 4 (right)

Use caution

Ensure that opening pick is inserted no further than **2 mm** in area A.





Remove the battery cowling

- Use the **absorption-bulb** to hold the **BG**.
- Remove the **two battery cowling screws** with a **torx plus 3IP screwdriver**.
- Remove the **battery cowling** with **ESD tweezers**.

Part: G250-07876-04*2 (screw)

Part: G730-09803-01 (battery cowling)



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 and damage the **battery** or the product.

Note

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

Don't reuse the **screw**.

Finished! Want assembly instructions? ➜

Remove the BG sub

- Detach the **BG sub** and **battery connectors** from the **logic board** with an **ESD spudger**.
- Remove the **BG sub**.

Part: multiple part numbers (BG sub)

Note

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



Disassembly instructions

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 that you should remove first:

- **BG sub**

Tools

Torx plus 3IP screwdriver

ESD 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 cleaning
- Reusable after cleaning
- Not reusable after disassembly

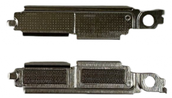
Front camera
G949-01437-00



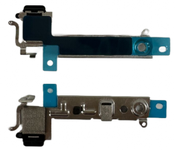
FCAM CPSA
G806-14192-01



Tele cowling
G730-10080-01



FCAM cowling_mmWave
G730-09462-25



FCAM cowling_Sub6
G730-09462-26



Screw
G250-07878-04



Remove the tele cowling

- Remove the **tele cowling screw** with a **torx plus 3IP screwdriver**.
- Remove the **tele cowling** with **ESD tweezers**.

Part: G250-07878-04 (screw)

Part: G730-10080-01 (tele cowling)



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 and damage the **battery** or the product.

Note

Don't reuse the **screw**.

Remove the screw

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

Part: G250-07878-04 (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 and damage the **battery** or the product.

Note

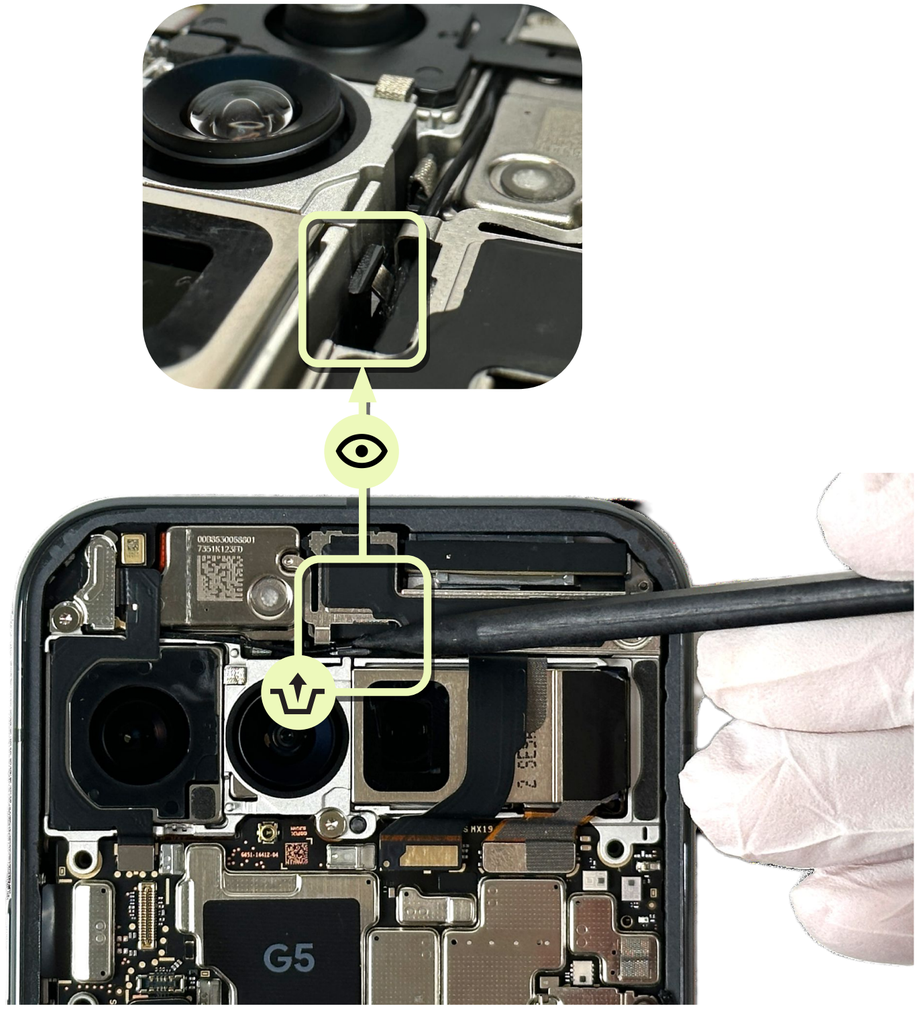
Don't reuse the **screw**.

Remove the FCAM cowling

- Insert the narrow end of an **ESD spudger** under the **hook(metal area)**.
- Lift the **FCAM cowling** to remove it.

Part: G730-09462-25 (FCAM cowling-mmWave)

Part: G730-09462-26 (FCAM cowling-sub6)



Note

Don't reuse the part.

Finished! Want assembly instructions? ➜

Remove the front camera

- Detach the **FCAM connector** with an **ESD spudger**.
- Remove the **front camera** with an **ESD spudger**.

Part: G949-01437-00 (front camera)



⚠ Use caution

Be cautious not to touch the **front camera lens**.

Don't grab the **flex** to remove the **front camera**.

Disassembly instructions

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 that you should remove first:

- **BG sub**
- **Front camera**

Tools

Torx plus 3IP screwdriver

ESD spudger

ESD tweezers

IPA and cloth

Required parts

mmWave module

Reuse indications — Reusable without cleaning | Reusable after cleaning | Not reusable after disassembly

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

mmWave module
G949-01442-00



Heatsink_Sub6
G850-00756-00



Screw
G250-07839-04



Thermal TIM_mmWave
G864-01024-03



Disconnect the mmWave

Detach the **mmWave module connector** with an **ESD spudger**.

> **Note**
>
> This step is only present in the **mmWave SKU**.
>
> Use an **ESD spudger** to avoid damage to the components.



Finished! Want assembly instructions? ➜

Remove the mmWave module or heatsink

- Remove the **mmWave module or heatsink screw** with a **torx plus 3IP screwdriver**.
- Remove the **mmWave module or heatsink** with **ESD tweezers**.

Part: G250-07839-04 (screw)

Part: G949-01442-00 (mmWave module)

Part: G850-00756-00 (heatsink_Sub6)



mmWave SKU

Sub6 SKU

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 and damage the battery or the product.

Note

Don't reuse the **screw**.

Disassembly instructions

ANT4 board

Use caution

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

Prerequisites

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

- **BG sub**

Tools

Torx plus 3IP screwdriver

ESD tweezers

ESD spudger

IPA and cloth

Required parts

ANT4 board

Reuse indications — Reusable without cleaning | Reusable after cleaning | Not reusable after disassembly

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

ANT4 board
G949-01436-00



Coaxial cable
G821-01167-03



ANT4 cowling
G730-09426-01



Mic3 mesh
G806-14784-30



Screw
G250-07891-04



Remove the ANT4 cowling

- Remove the **ANT4 cowling screw** with a **torx plus 3IP screwdriver**.
- Remove the **ANT4 cowling** with **ESD tweezers**.

Part: G250-07891-04 (screw)

Part: G730-09426-01 (ANT4 cowling)



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 and damage to the battery or the product.

Note

***Don't* reuse the screw.**

Disconnect the SPAM

Detach the **SPAM connector** from the **ANT4 board** with an **ESD spudger**.



Note

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

Remove the coaxial cable

- Unbuckle the **coaxial cable** with an **ESD spudger**.
- Remove the **coaxial cable**.

Part: G821-01167-03 (coaxial cable)



Use caution

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

Note

***Don't* reuse the part.**

Remove the screw

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

Part: G250-07891-04 (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 and damage battery or the product.

Note

***Don't* reuse the screw.**

Finished! Want assembly instructions? ➜

Remove the ANT4 board

Insert the narrow end of an **ESD spudger** through the boss hole and press down to pivot and lift the **ANT4 board**.

Part: G949-01436-00 (ANT4 board)

Note

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

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





Disassembly instructions

Battery

Use caution

Use caution if you engage in repair.

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

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

Battery handling

- Never bend, dent, puncture, or use tools to pry the **battery**.
- Store batteries in the replacement part packaging as soon as possible after removal to prevent damage.
- If a **battery** begins to vent, cover it in sand or use **gloves** and **tongs** to place the **battery** in a fire safe container as soon as possible.
- Take care to prevent shorting of **battery terminals** or damage of the battery, as it could cause fire or overheating.
- Dispose of the **battery** in accordance with local regulations.

Confirm before you proceed

- Confirm if the **battery** is fully discharged and the device is disconnected from all power sources.
- Inspect the **battery** to see whether the phone battery shows signs of swelling, damage, or if the phone feels hot or emits a strong odor. If so, *don't* attempt disassembly. Reach out to Google customer support instead.
- Take care not to expose the phone or its components to liquids after disassembly.

Disassembly instructions

Battery

It's recommended to wrap the **battery** to remove the it.
If you use other methods, it might damage the device.

Use caution

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

Prerequisites

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

- **BG sub**

Tools

- Universal base 12 mm
- Universal holder
- Universal holder limiting block
- Universal supporting rubber
- Universal press plate 12 mm
- Universal press fixture
- Pixel 10 Pro battery press rubber
- Absorption bulb
- 3M AP111 primer
- Dust-free cotton swabs
- Finger cots
- IPA and cloth

Required parts

Battery

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

Reuse indications

- Reusable without cleaning
- Reusable after cleaning
- Not reusable after disassembly

Battery
Multiple part numbers



RJ flex
G652-10414-03



RF cowling
G730-09804-01



CLB cowling
G730-09460-11



Screw
G250-07876-04

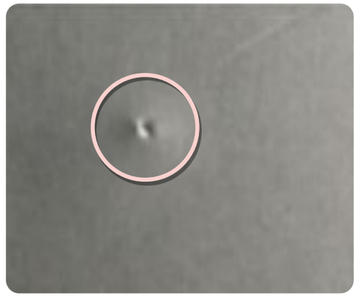


Screw
G250-07891-05

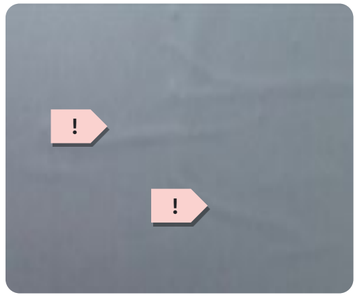


Use caution ⚠

Examples of unacceptable battery conditions - Not suitable for repair



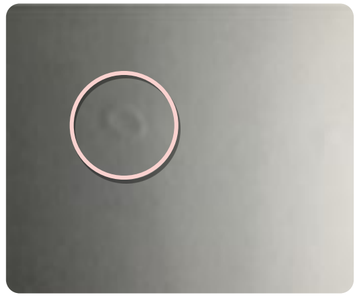
Pouch damage



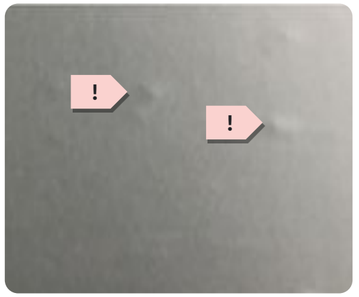
Line protrusion



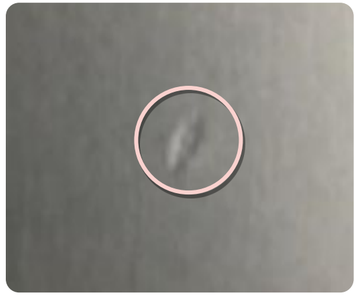
Scratch



Contamination mark



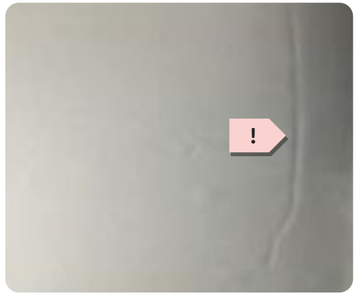
Dot protrusion



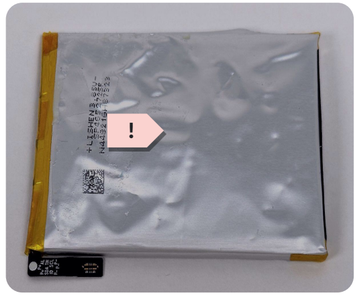
Dent



Bubbling



Imprinted line



Swelling or electrolyte leakage

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

Remove the RF and the CLB cowling

- Remove the **RF** and **two CLB cowlings screws** with a **torx plus 3IP screwdriver**.
- Remove the **RF** and the **CLB cowling** with **ESD tweezers**.

Part: G250-07876-04 (screw)

Part: G250-07891-05*2 (screw)

Part: G730-09804-01 (RF cowling)

Part: G730-09460-11 (CLB cowling)

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 and damage the **battery** or the product.

Note

***Don't* reuse the screws.**



A: G250-07876-04

B: G250-07891-05

Remove the RJ flex

- Detach the **RJ flex connectors** with an **ESD spudger**.
- Remove the **RJ flex**.

Part: G652-10414-03 (RJ flex)



Note

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

Remove the battery

- Wear **ESD finger cots or gloves** to prevent slipping.
- If needed, use **ESD tweezers** to unstick the **green battery tab**.
- Hold the device with your left hand and peel open the green battery tab with your right hand as shown in **Fig 1**.
- Make sure to carefully peel off the entire left edge of the battery wrap as shown in **Fig 2**.

Part: multiple part numbers (battery)

Use caution

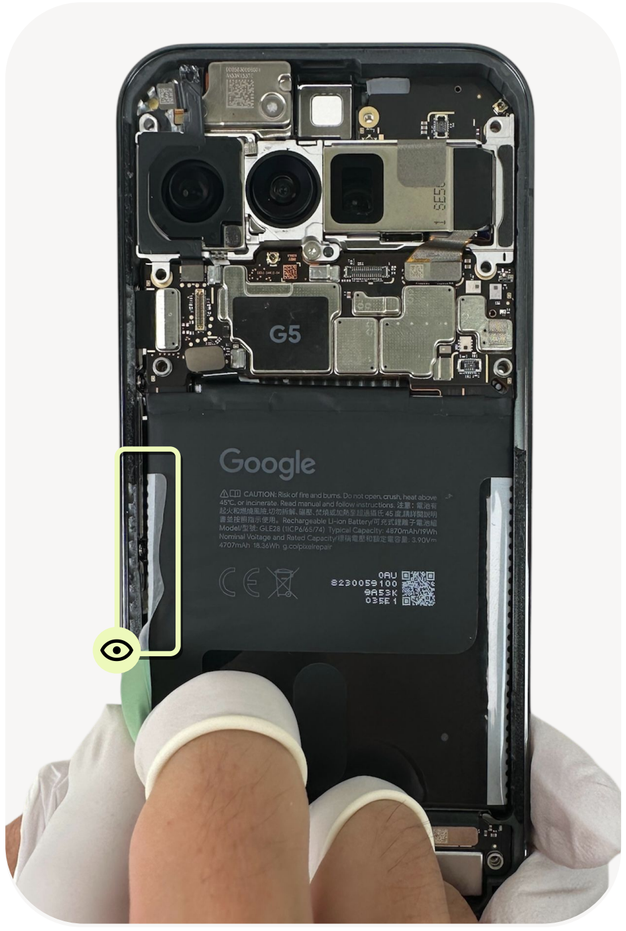
Avoid touching the **rear camera lenses**, **bottom speaker, volume button and other components.**

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

Fig 1



Fig 2



Finished! Want assembly instructions? →

Remove the battery

- Hold the device securely with your left hand, with the **left thumb located near the lower bottom speaker**. Grab the green battery tab with your right hand as shown in **Fig 1**.
- Slowly and firmly, pull the tab **perpendicular to the device to lift the left edge of the battery** as shown in **Fig 2**. Pull until you hear the adhesive break.
- Tear the **battery** completely from the back side of the wrap as shown in **Fig 3**.
- Hold the battery and slowly peel the battery wrap away from the enclosure as shown in **Fig 4**.
- Carefully remove and dispose the **battery and battery wrap** safely.

Part: multiple part numbers (battery)

Use caution

Avoid touching the **rear camera lenses**, **bottom speaker, volume button and other components.**

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

Note

***Don't* reuse the part.**

Fig 1



Fig 2

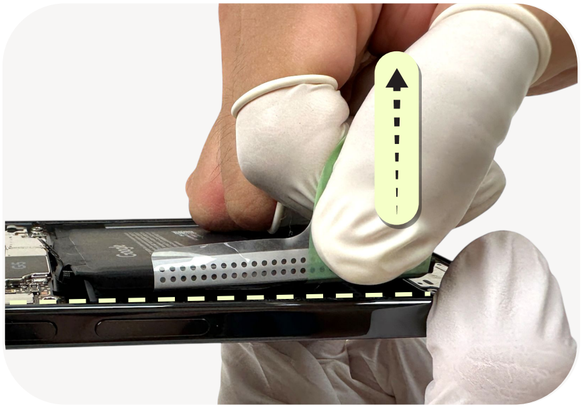


Fig 3

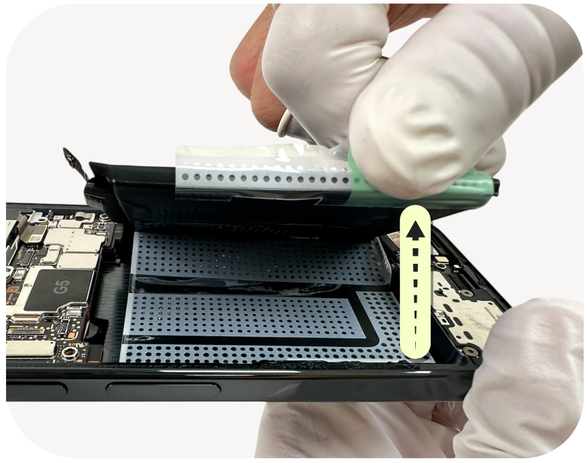


Fig 4



Disassembly instructions

Logic board

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

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 that you should remove first:

- **BG sub**
- **Front camera**
- **mmWave**
- **Battery**

Tools

Pixel 10 Pro thermal grease alignment fixture

Torx plus 3IP screwdriver

ESD spudger

ESD tweezers

SIM card ejection pin

IPA and cloth

Dust-free cotton swabs

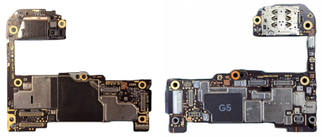
Required parts

Logic board

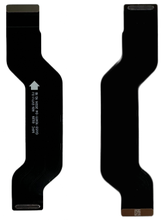
Reuse indications — Reusable without cleaning | Reusable after cleaning | Not reusable after disassembly

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

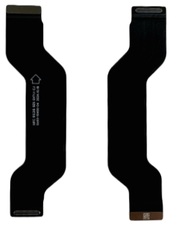
Logic board
Multiple part numbers



DJ flex
G949-01440-00



CJ flex
G949-01441-00



P-sensor foam
G806-13064-01



Strip shield 1
G806-16681-01



Strip shield 2
G806-15985-01



Screw
G250-07878-04



*Material expires

Thermal grease
G160-01459-00
G160-01481-00



Extended foam
G806-14748-02



SIM tray_Sub6
Multiple part numbers



Remove the strip shield 1 and 2

Slowly peel off **strip shield 1 and 2** with **ESD tweezers**.

Part: G806-16681-01 (strip shield 1)

Part: G806-15985-01 (strip shield 2)

Use caution

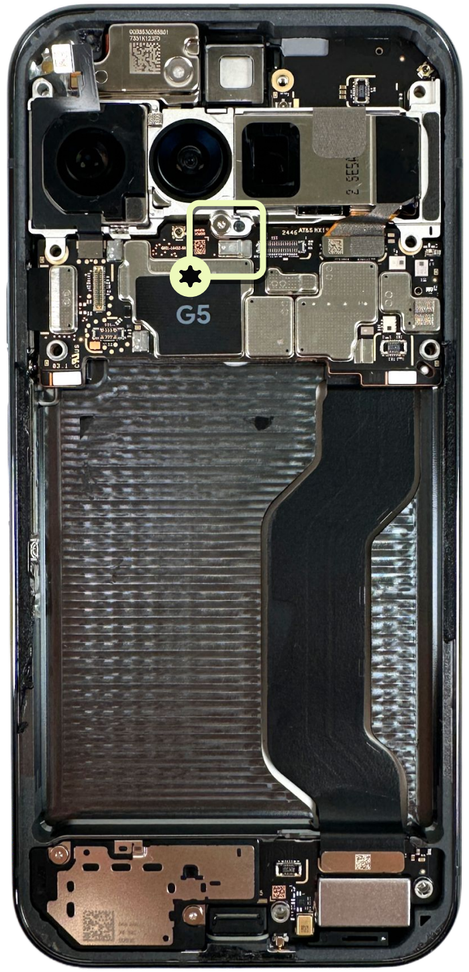
Be careful to avoid damage to the components on the **logic board**.



Remove the screw

Remove the **logic board screw** with a **torx plus 3IP screwdriver**.

Part: G250-07878-04 (screw)



Use caution

Be careful when you use the screwdriver.

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

Note

***Don't* reuse the screw.**

Remove the SIM tray

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

Part: multiple part numbers (SIM tray)



Note

This step is only present in the **sub6 SKU**.

Lift the logic board up

- Pry up the **logic board** with an **ESD spudger** from the lower right corner.
- Lift it from the screw boss near the FCAM bracket with an **ESD spudger**.

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**.

There are **CJ** and **DJ flex** connected to the **logic board**.





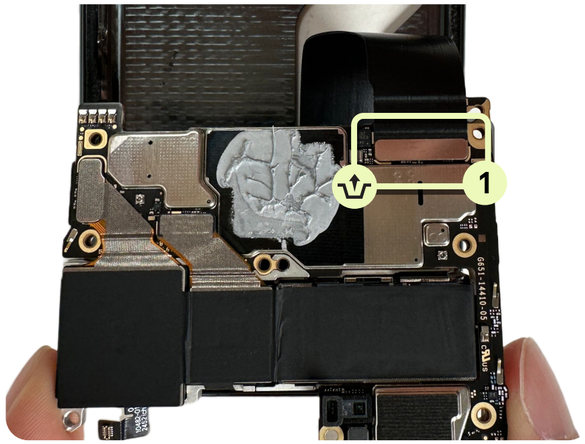
Remove the logic board, CJ flex, and DJ flex

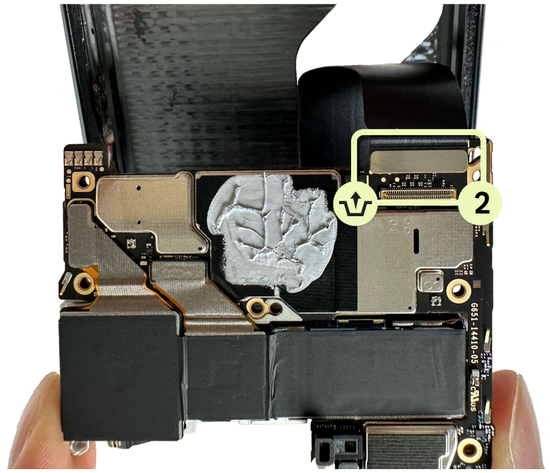
- Carefully hold the **logic board**.
- Detach the **DJ** and **CJ flex** with an ESD spudger.
- Gently remove the **logic board**, **DJ flex**, and **CJ flex**.

Part: multiple part numbers (logic board)

Part: G949-01440-00 (DJ flex)

Part: G949-01441-00 (CJ flex)







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**.

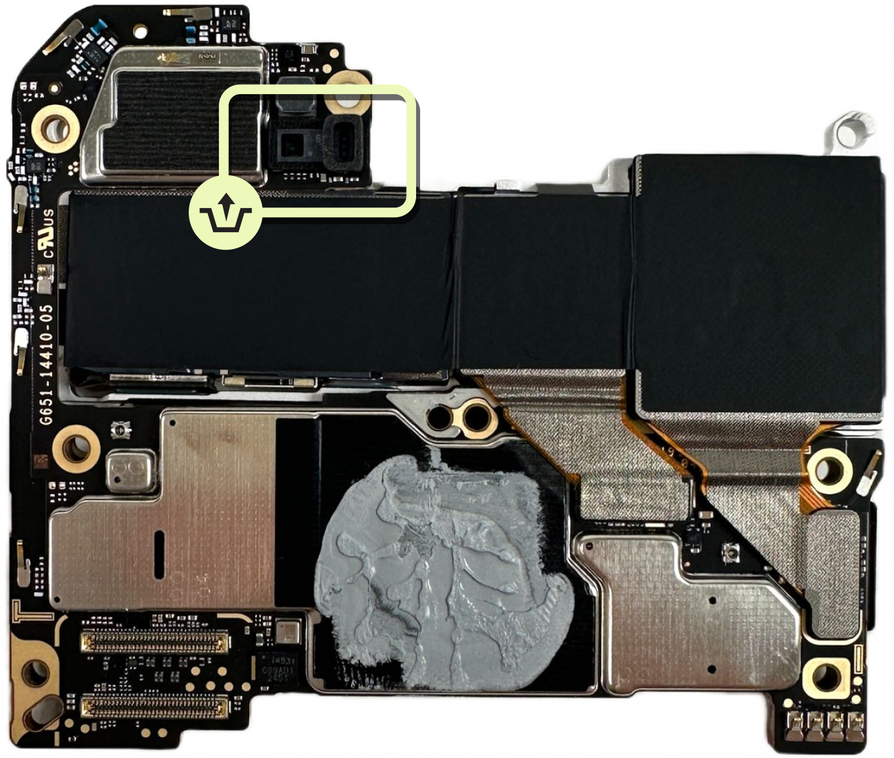
Use an ESD spudger to avoid damage to the components.

Finished! Want assembly instructions? →

Remove the P-sensor foam

Remove the **P-sensor foam** with **ESD tweezers**.

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



Note

Don't reuse the part.

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

Disassembly instructions

Rear camera

The rear camera module carries all the **rear cameras**.
It isn't possible to replace a single camera and lens.

Use caution

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

Prerequisites

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

- **BG sub**
- **Front camera**
- **mmWave module**
- **Battery**
- **Logic board**

Tools

ESD spudger

ESD tweezers

IPA and cloth

Required parts

Rear camera

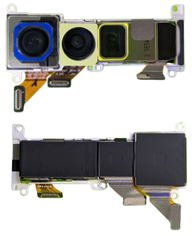
Here's the list of parts for the rear camera disassembly:

Reuse indications

- Reusable without cleaning
- Reusable after cleaning
- Not reusable after disassembly

Rear camera

G949-01438-00



SPAM flex

G949-01439-00



SPAM flex PSA

G806-16180-00



Remove the rear camera

- Detach the **three rear camera connectors** and **SPAM flex connector** on both sides of the **logic board** with an **ESD spudger** as shown in Fig 1 and Fig 2.
- Remove the **rear camera** with **ESD tweezers** as shown in Fig 3.

Part: G949-01438-00 (rear camera)

Use caution

Avoid touching the **rear camera lenses** and to damage the components on the **logic board**.

Note

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

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

Fig 1

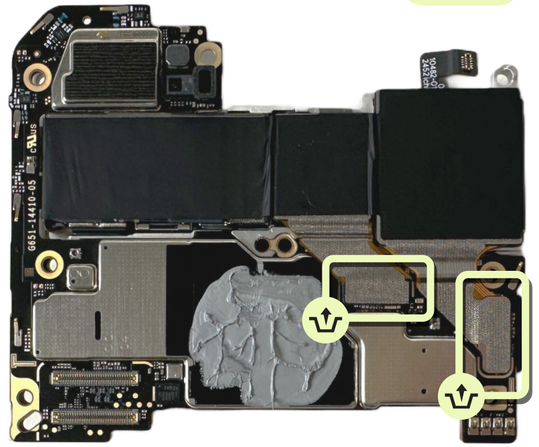


Fig 2

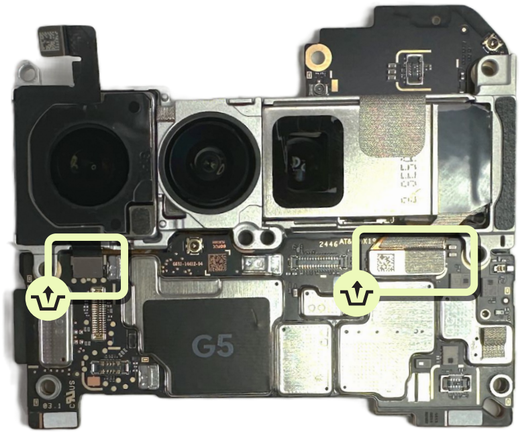
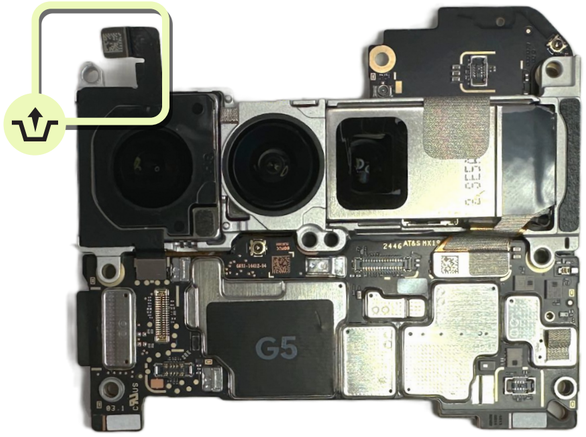


Fig 3

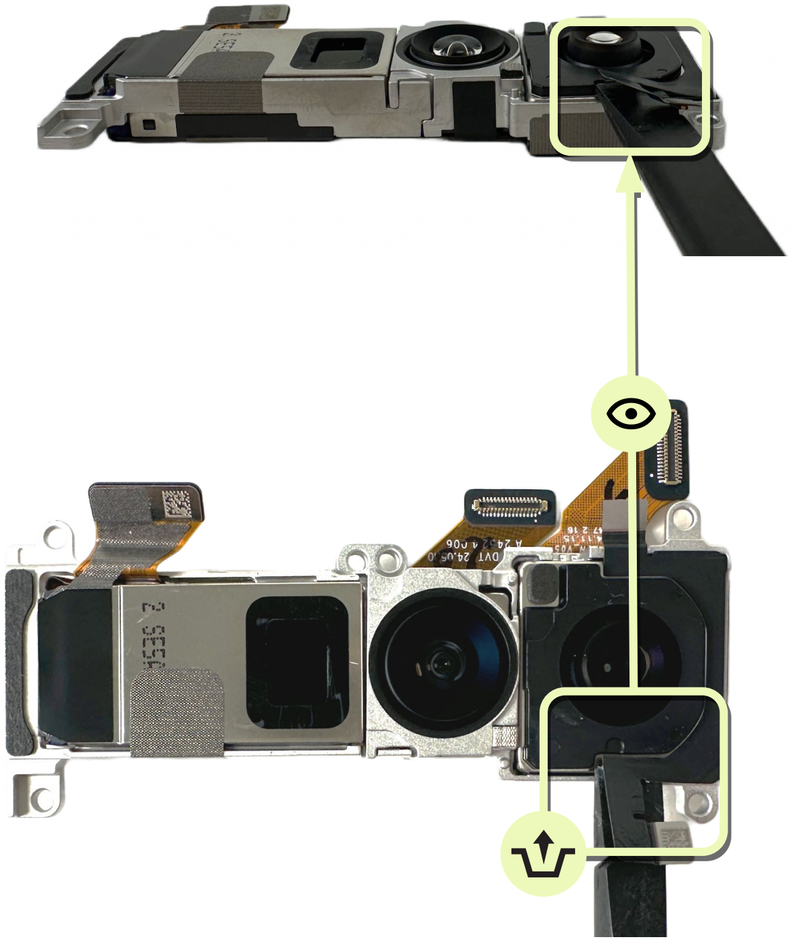


Finished! Want assembly instructions? →

Remove the SPAM flex

Insert an **ESD spudger** between between the **rear camera module** and the **SPAM flex** to remove the flex.

Part: G949-01439-00 (SPAM flex)



Use caution

Avoid touching the **rear camera lenses**.

Note

This step is only required when replace SPAM flex or RCAM.

Disassembly instructions

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 that you should remove first:

- **BG sub**
- **Front camera**
- **mmWave module**
- **ANT4 board**
- **Battery**
- **Logic board**

Tools

ESD spudger

ESD tweezers

IPA and cloth

Required parts

Top speaker

Reuse indications — Reusable without cleaning | Reusable after cleaning | Not reusable after disassembly

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

Top speaker
G863-00688-01



Top speaker FoF
G806-15608-00



Top speaker adhesive
G806-13668-10



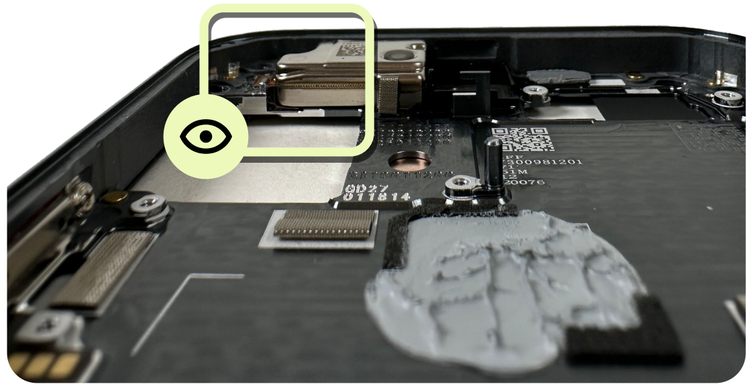
FoF
G806-11578-02

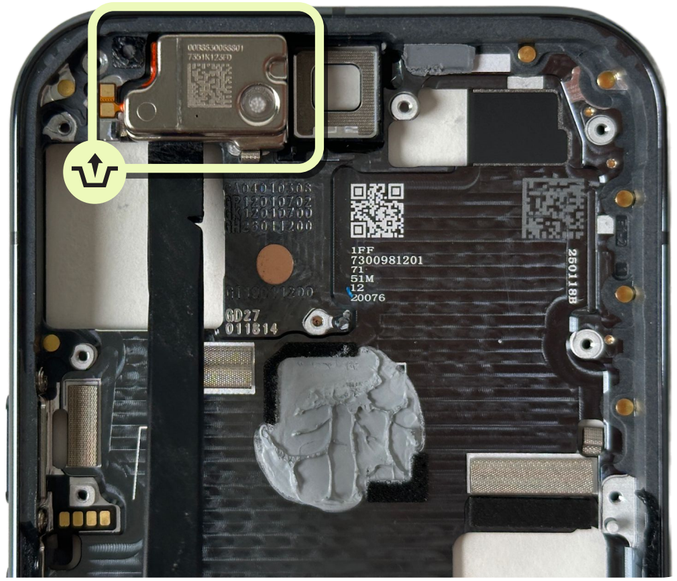


Remove the top speaker

Insert an **ESD spudger** into the gap between the **top speaker** and the **enclosure** and pry up the **top speaker**.

Part: G863-00688-01 (top speaker)



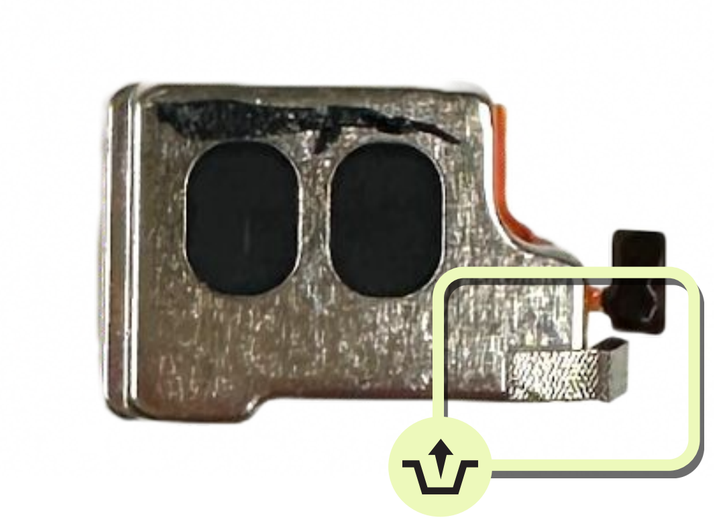


Finished! Want assembly instructions? →

Remove the top speaker FoF

Remove the **top speaker FoF** with an **ESD spudger**.

Part: G806-15608-00 (top speaker FoF)



Note

Don't reuse the part.

This step replaces the deformed top speaker FoF.

Disassembly instructions

Bottom speaker

The **bottom speaker** is fastened 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 that you should remove first:

- **BG sub**

Tools

Torx plus 3IP screwdriver

ESD spudger

ESD tweezers

Dust-free cotton swabs

Sankol lubricant CFD 409Z_V2

Required parts

Bottom speaker

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

Reuse indications — Reusable without cleaning | Reusable after cleaning | Not reusable after disassembly

Bottom speaker
G863-00649-04



Screw
G250-07891-05



Bottom speaker foam
G806-16072-15



Remove the screws

Remove the **two bottom speaker screws** with a **torx plus 3IP screwdriver**.

Part: G250-07891-04*2 (screw)



Use caution

Be careful when you use the screwdriver.

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

Note

***Don't* reuse the screws.**

Remove the bottom speaker

Push the **bottom speaker** from the **CG side** and remove the **bottom speaker**.

Part: G863-00649-04 (bottom speaker)



Finished! Want assembly instructions? ➜

Remove the bottom speaker

To remove the bottom speaker with display assembled, insert the narrow end of an **ESD spudger** through the boss hole and press down to pivot and lift the **bottom speaker**.

Part: G863-00649-04 (bottom speaker)





Note

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

This step is only for bottom speaker repair from the **BG side**.

Disassembly instructions

Chin board

The **chin board** is communicated with the components, such as the USB port and l**ogic board**.

Use caution

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

Prerequisites

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

- **BG sub**
- **Bottom speaker**

Tools

ESD spudger

ESD tweezers

Required parts

Chin board

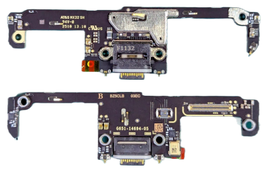
Here's the list of parts for the chin board disassembly:

Reuse indications

- Reusable without cleaning
- Reusable after cleaning
- Not reusable after disassembly

Chin board

G949-01435-00

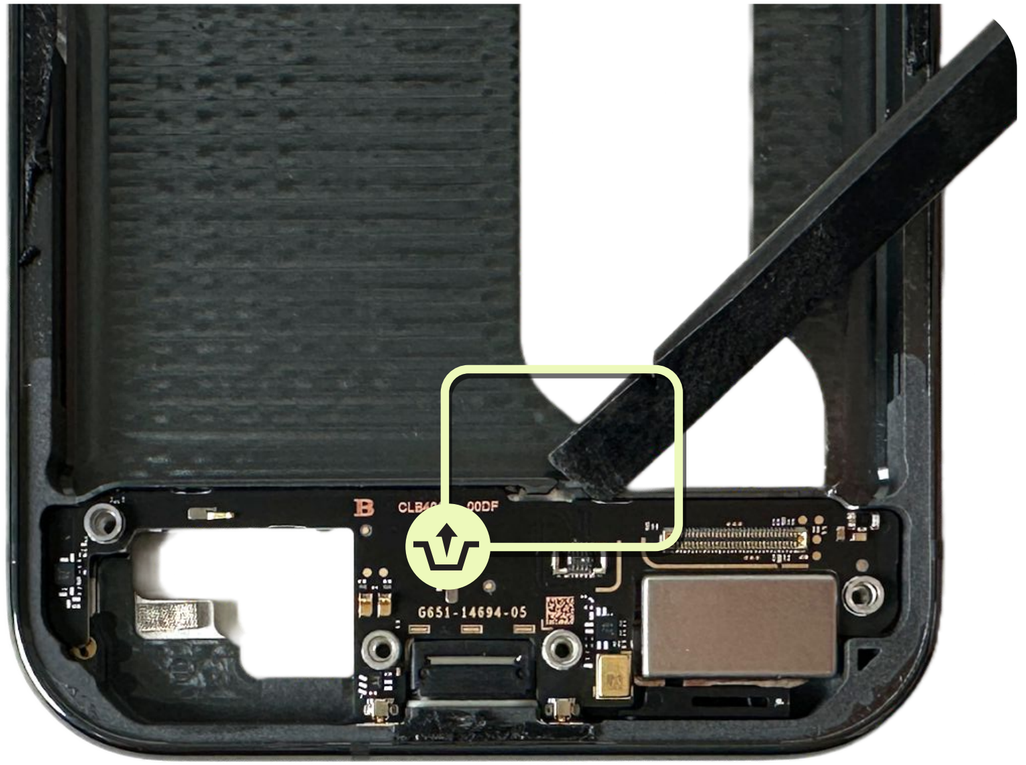


Finished! Want assembly instructions? →

Remove the chin board

Insert the **ESD spudger** between the **chin board** and the **retaining wall** to pry it up.

Part: G949-01435-00 (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**.

Disassembly instructions

Vibrator

The **vibrator** is adhered to the **enclosure**.
If it's removed, replace it with a new PSA and conductive tape.

Use caution

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

Prerequisites

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

- **BG sub**
- **Bottom speaker**
- **Chin board**

Tools

ESD tweezers

ESD spudger

IPA and cloth

Required parts

Vibrator

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

Reuse indications

- Reusable without cleaning
- Reusable after cleaning
- Not reusable after disassembly

Vibrator

G710-07500-00



Vibrator PSA

G806-13155-00

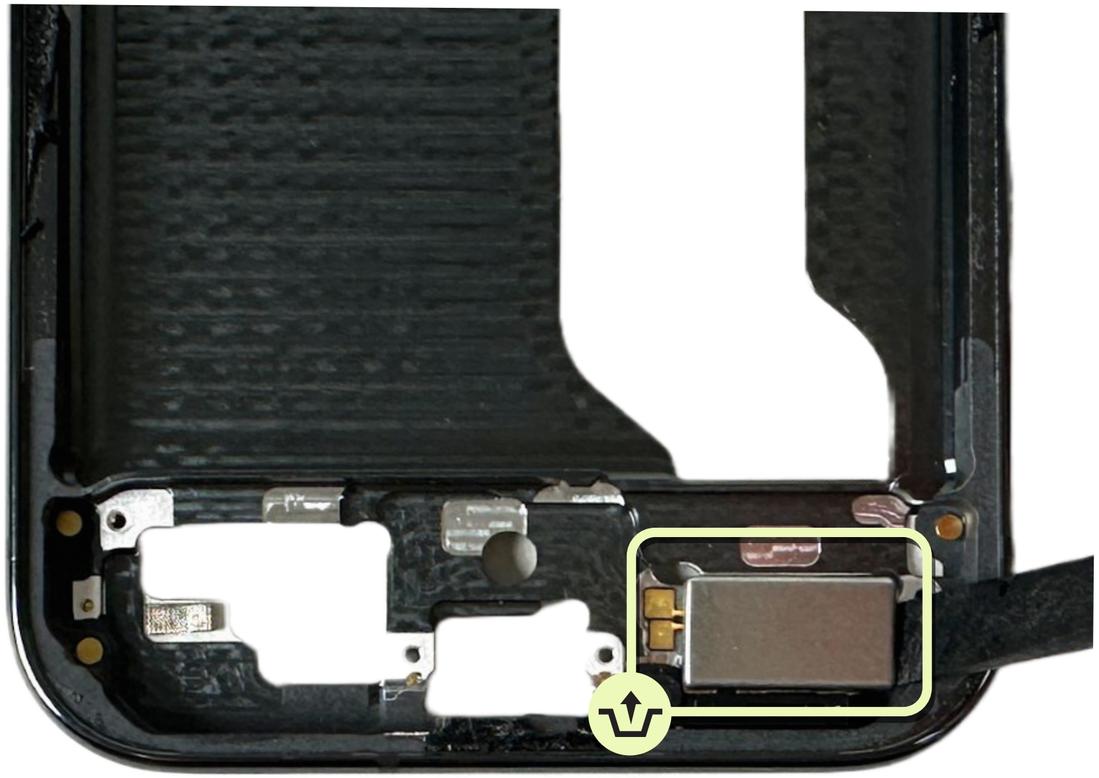


Finished! Want assembly instructions? ➜

Remove the vibrator

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

Part: G710-07500-00 (vibrator)



Disassembly instructions

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 that you should remove first:

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

Tools

Dust-free cotton swabs

IPA and cloth

Required parts

Enclosure

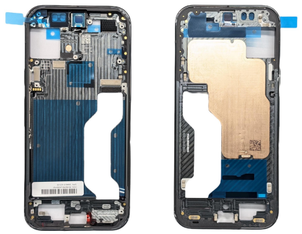
Here's the list of parts for the enclosure disassembly:

Reuse indications

- Reusable without cleaning
- Reusable after cleaning
- Not reusable after disassembly

Enclosure

Multiple part numbers



Pixel 10 Pro repair manual

Assembly

Enclosure
Top speaker
Rear camera
Logic board
Ant4 board
mmWave module
Front camera
Display
Vibrator
Chin board
Bottom speaker
Battery
BG sub

Assembly instructions

Enclosure

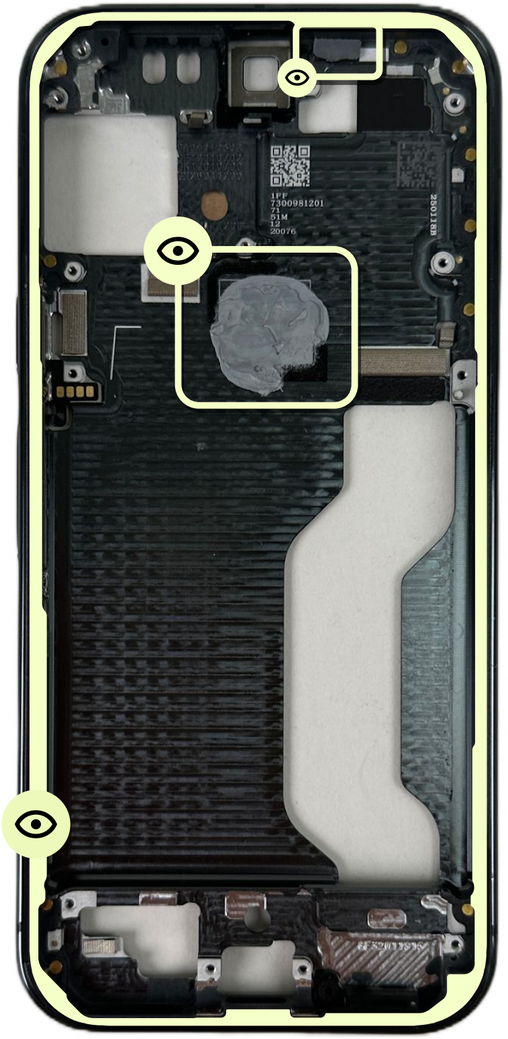
Reuse the enclosure

- Inspect the **enclosure** for adhesive residue.
- Carefully peel off the **adhesive** with your hand in large sections where possible.
- Use an **ESD spudger** to remove any remaining glue from the **enclosure**.
- Clean **thermal grease**, **extended foam** and **mmWave TIM residue** from the **enclosure** with an **ESD spudger**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: multiple part numbers (enclosure)

Note

Make sure that the side band protect film is removed when you use the **new enclosure**.



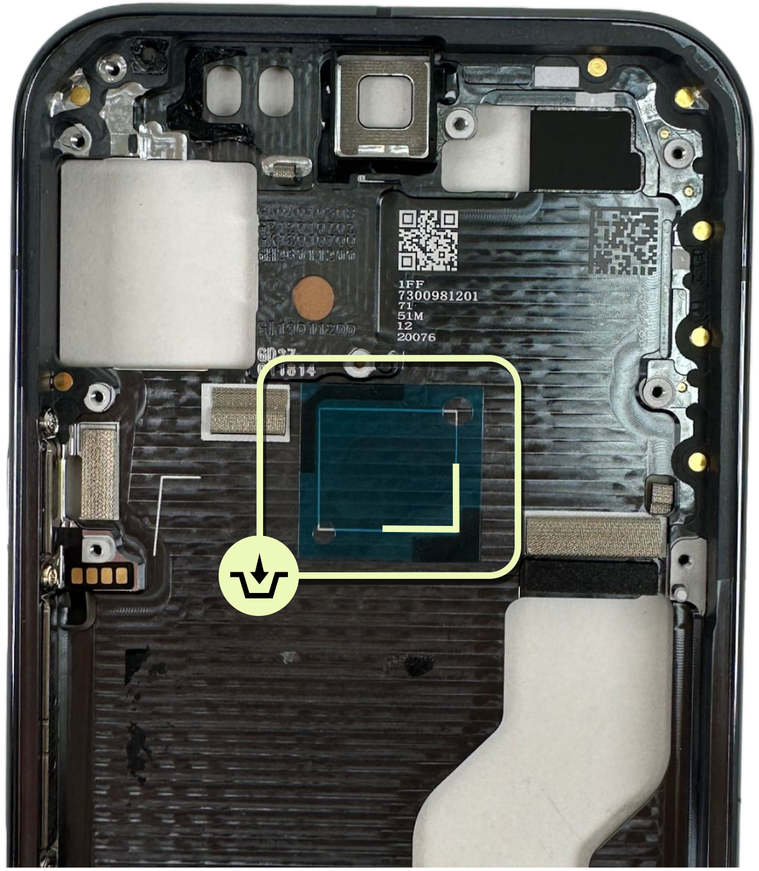
Attach the extended foam

Stick the **extended foam** to the designated position on the **enclosure** with **ESD tweezers**.

Part: G806-14748-02 (extended foam)

Note

Ensure that the lower right foam's inner edges align with the embossed rectangle on the **enclosure**.



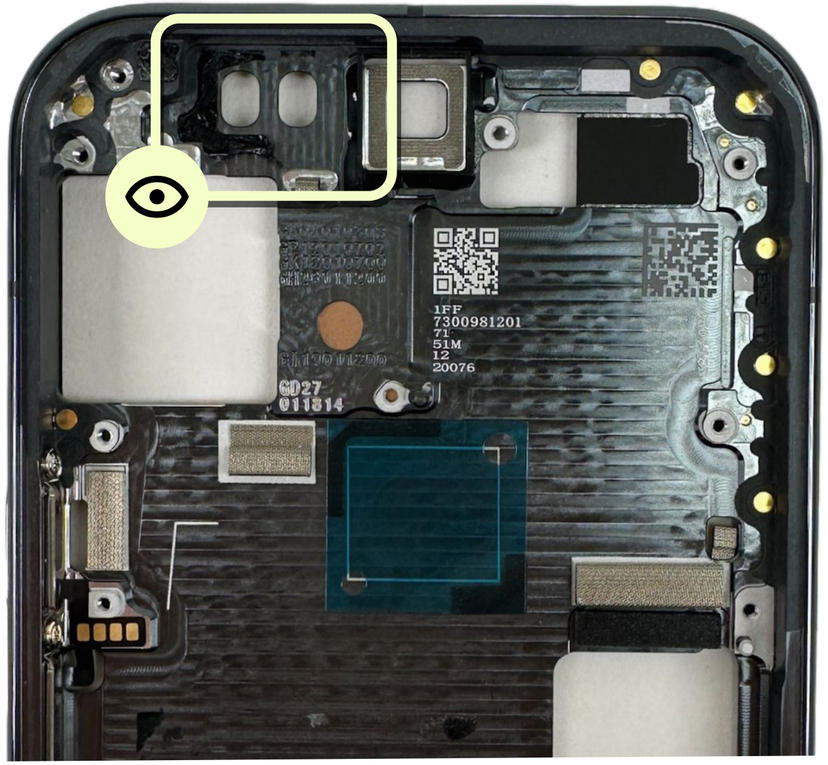
Assembly instructions

Top speaker

Clean the enclosure

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

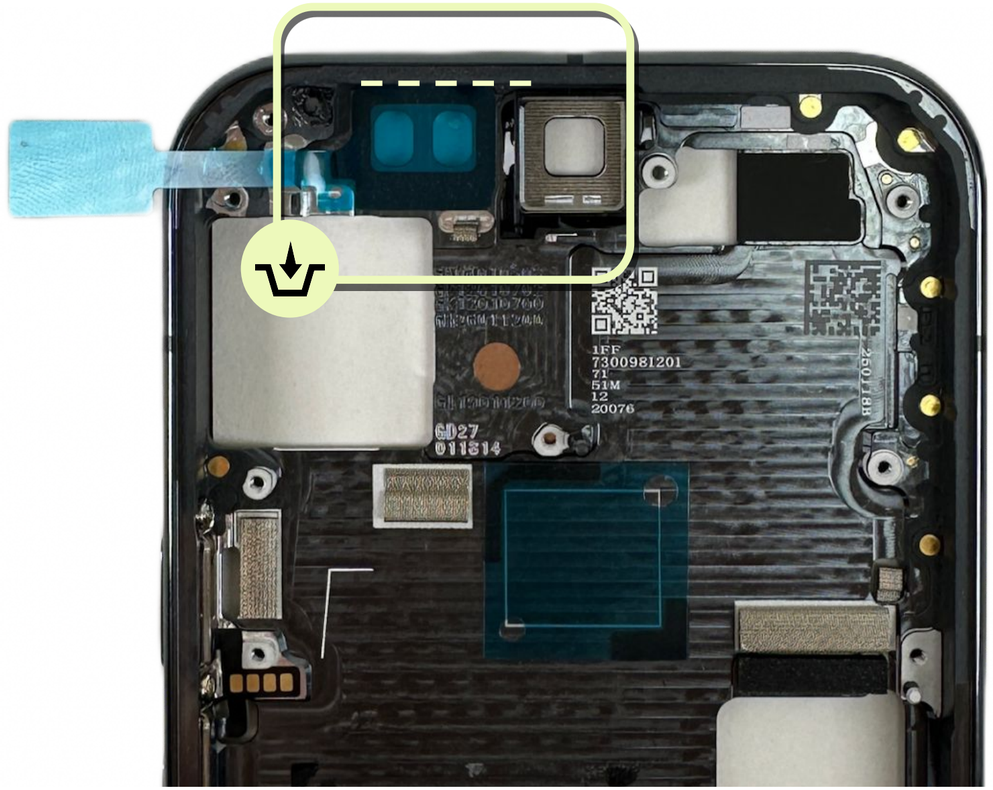
Part: multiple part numbers (enclosure)



Attach the top speaker PSA

Attach the **top speaker PSA** to the top with **ESD tweezers**.

Parts: G806-13668-10 (top speaker PSA)



Use caution

Don't cover the **speaker ports** with the **top speaker adhesive**.

Attach the FoF

- Align from the **dashed line** as shown in Fig 1.
- Attach the **FoF** with **ESD tweezers** as shown in Fig 2 and Fig 3.

Parts: G806-11578-02 (FoF)

> **Note**
>
> This step is only present if the **FoF** is deformed or missing.
>
> Otherwise, you might reuse it.

Fig 1

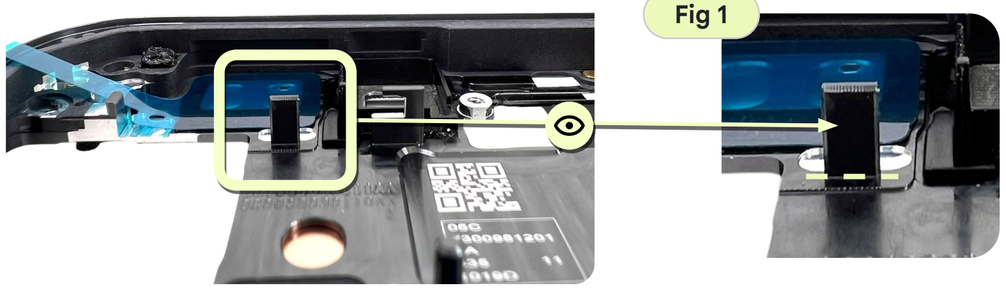


Fig 2

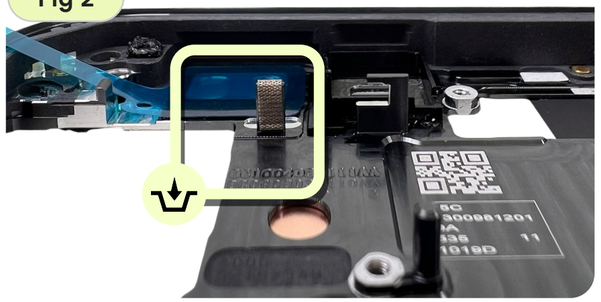
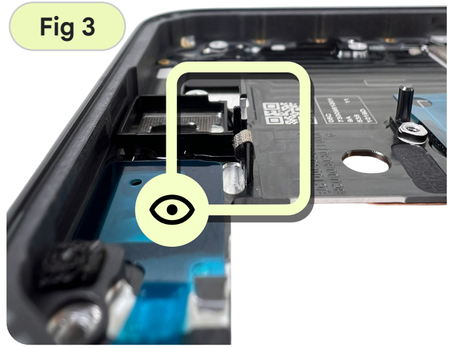


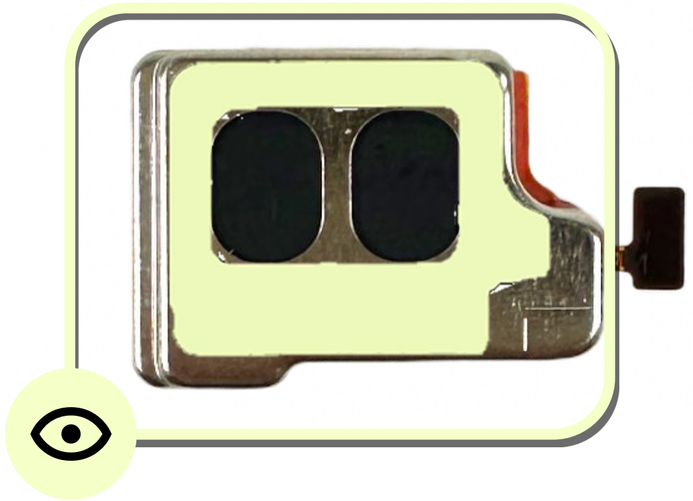
Fig 3



Reuse the top speaker

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

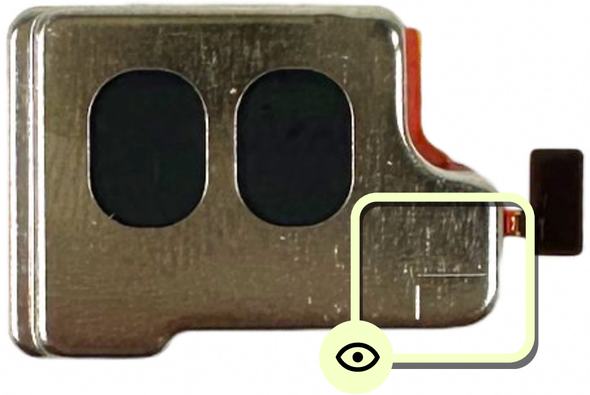
Part: G863-00688-01 (top speaker)

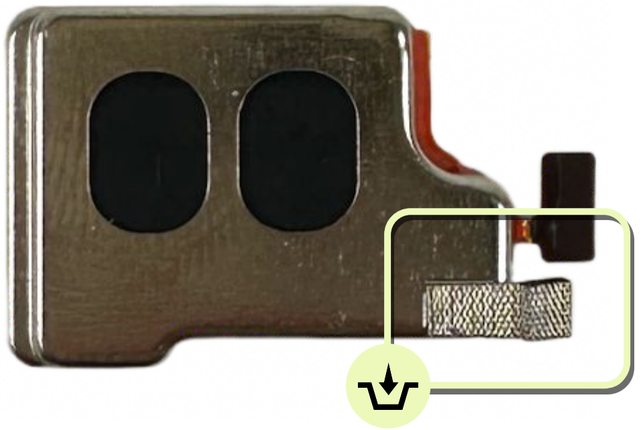


Attach the top speaker FoF

Use **ESD tweezers** to align and adhere the **top speaker pad** to the embossed lines on the **top speaker**.

Part: G806-15608-00 (top speaker FoF)





Note

Undamaged top speaker **FoF** could be reused.

Damaged top speaker **FoF** needs to be replaced.

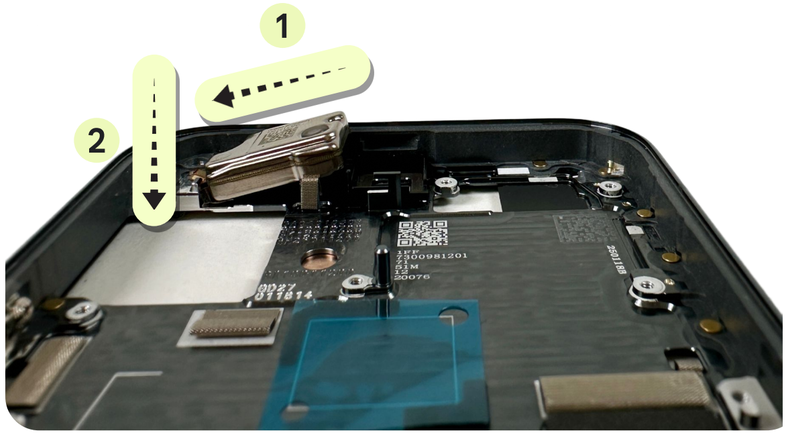
Assemble the top speaker

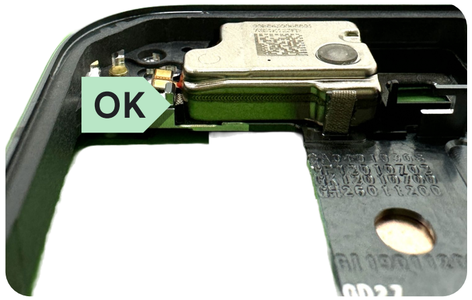
- Gently tear off the **top speaker PSA liner**.
- Press for **6 seconds** manually to ensure adhesion.

Part: G863-00688-01 (top speaker)

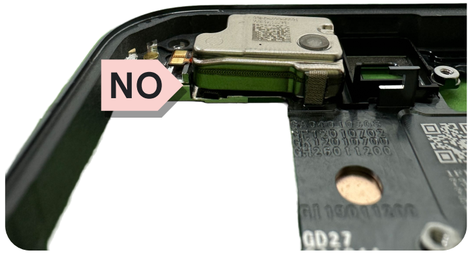
Note

If the **PSA** gets accidentally removed along with the **liner**, replace it.





FoF is between the top speaker and the enclosure.



FoF is under the top speaker.

Assembly instructions

Rear camera

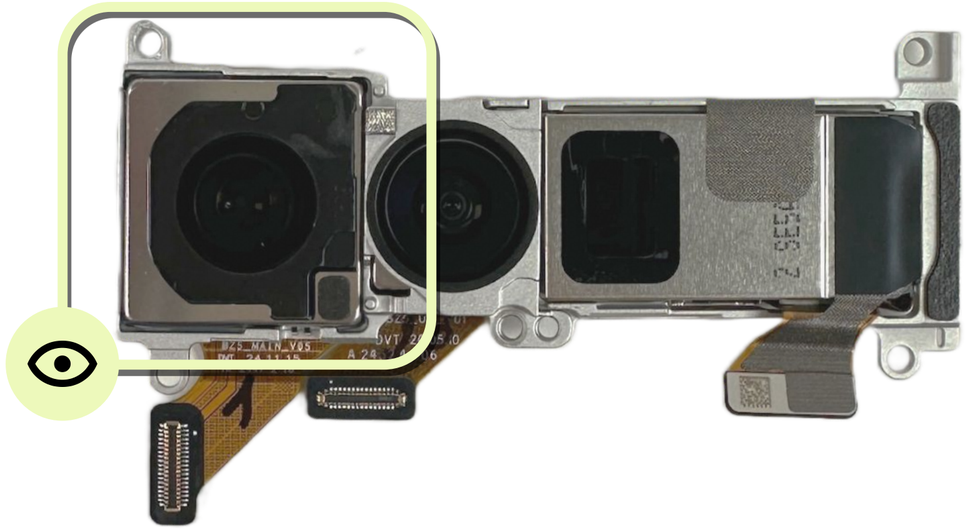
Reuse the rear camera

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

Part: G949-01438-00 (rear camera)

Use caution

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

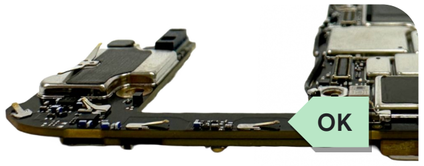


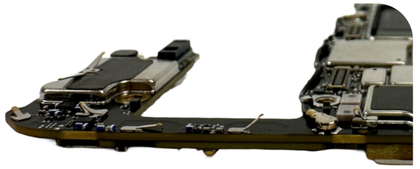
Check the logic board

General rules

> **Use caution**
>
> Before you attach the **rear camera** to the **logic board**, inspect the **springs** for any deformation.
>
> During assembly, be **particularly cautious** to prevent any damage to the **springs**.

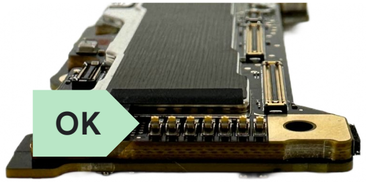
Springs

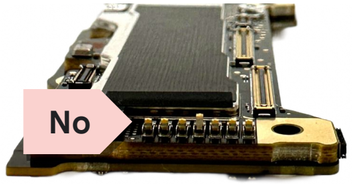




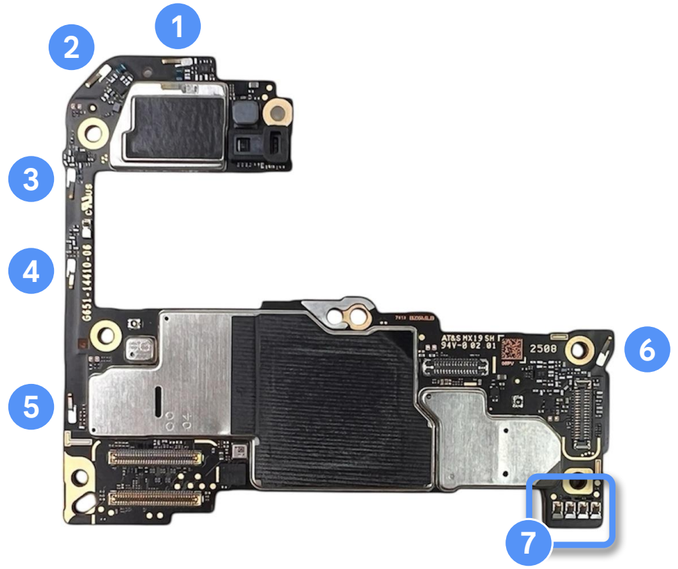
Deformation

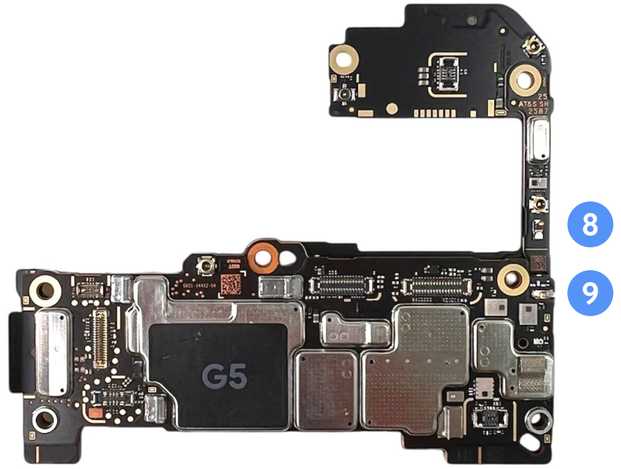
Pins





Deformation

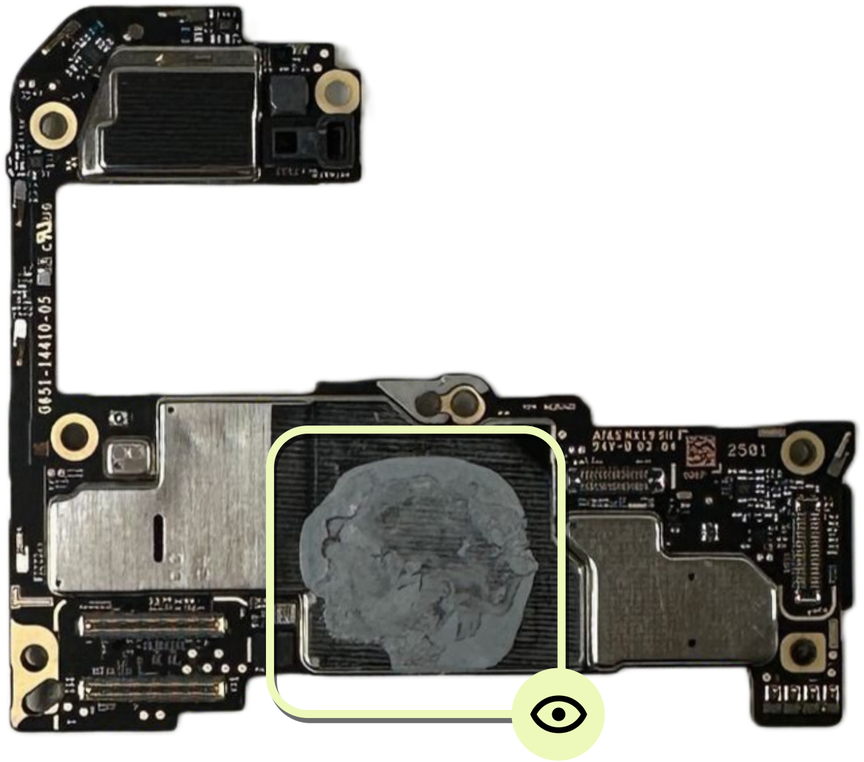




Reuse the logic board

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

Part: multiple part numbers (logic board)



Use caution

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

Note

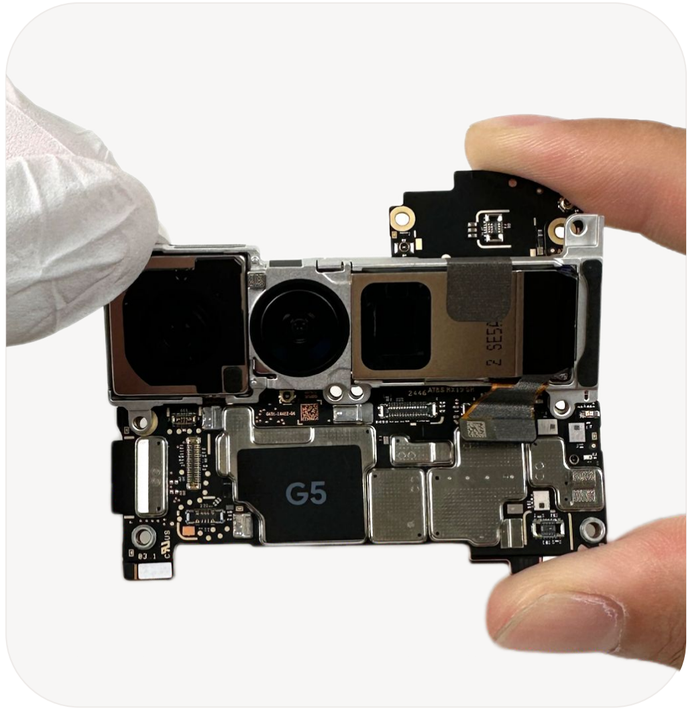
Don't wear **gloves** when you handle the **logic board**.

Assemble the rear camera

Assemble the **rear camera** to the **logic board** at an angle to make sure that the **flexes** go on both sides of the **logic board**.

Part: G949-01438-00 (rear camera)

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**.

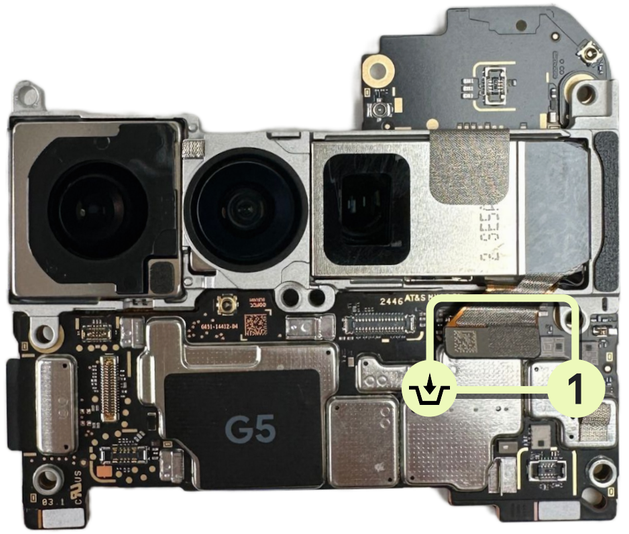
Don't touch the **rear camera lenses**.

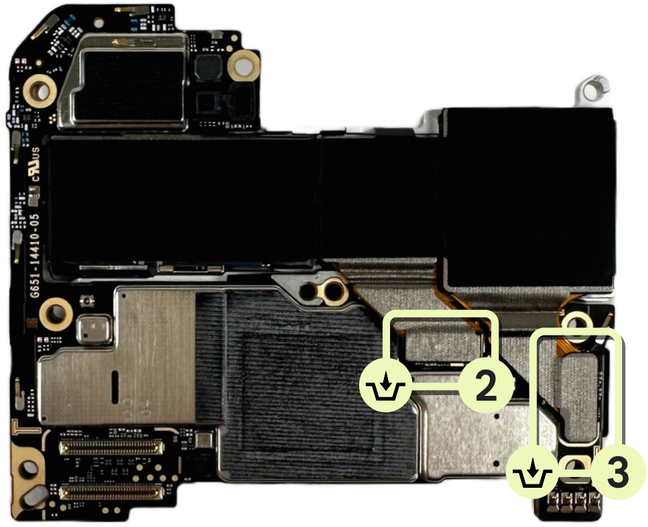
Buckle the rear camera

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

Part: G949-01438-00 (rear camera)

Part: multiple part numbers (logic board)





Note

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

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

Assembly instructions

Logic board

Check the logic board

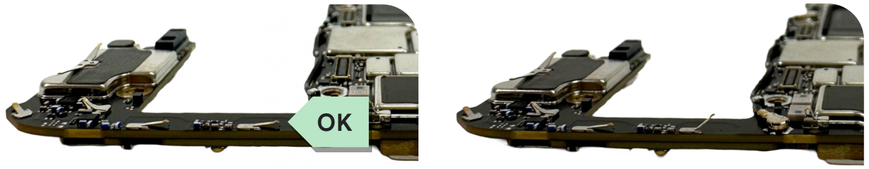
General rules

Use caution

Before you attach the **rear camera** to the **logic board**, inspect the **springs** for any deformation.

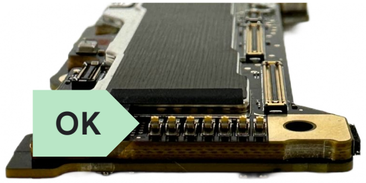
During assembly, be **particularly cautious** to prevent any damage to the **springs**.

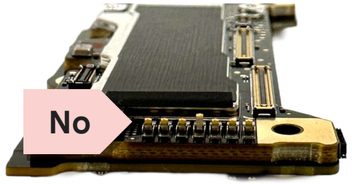
Springs



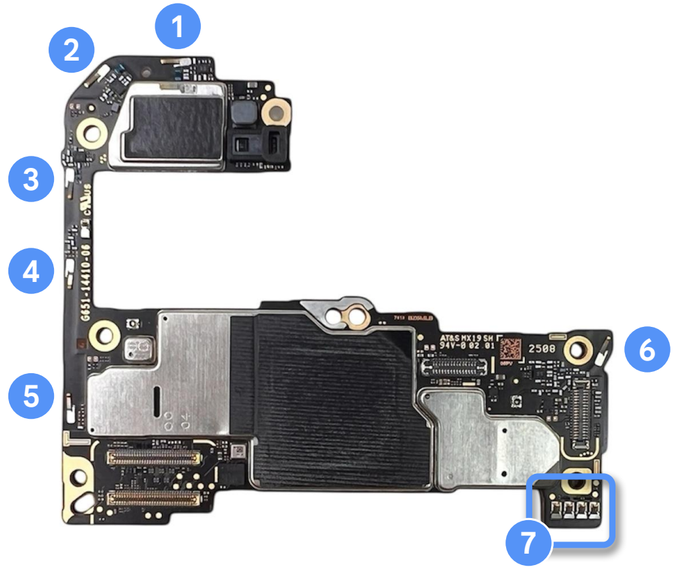
Deformation

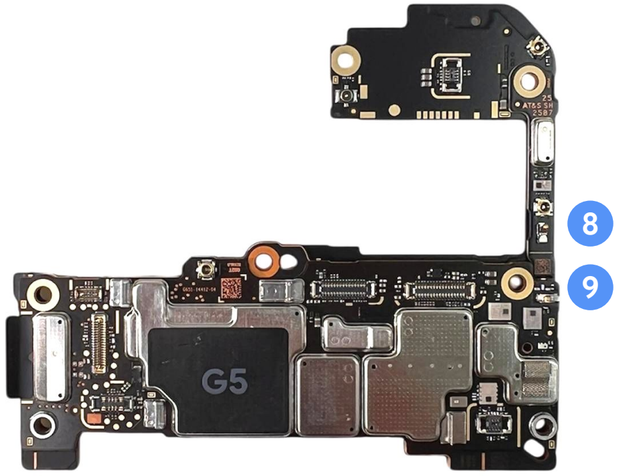
Pins





Deformation





Attach the P-sensor foam

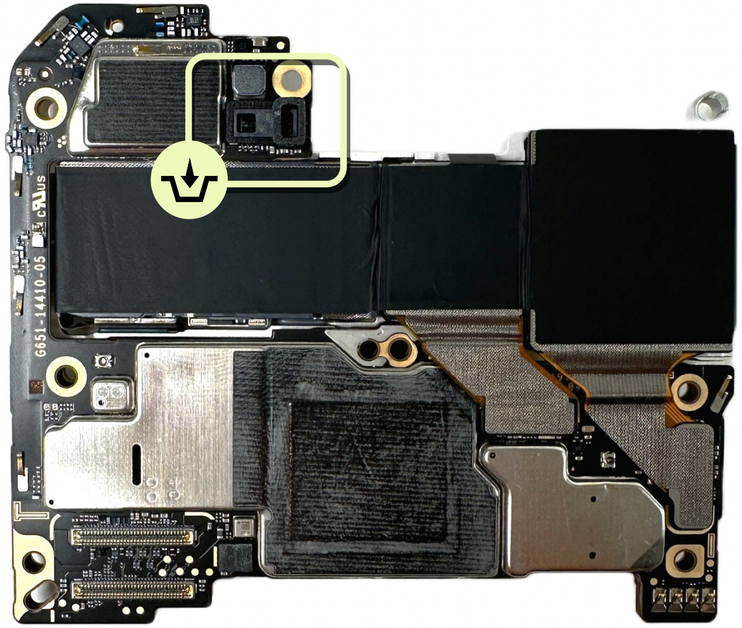
Attach the **P-sensor foam** to the **logic board** with **ESD tweezers**.

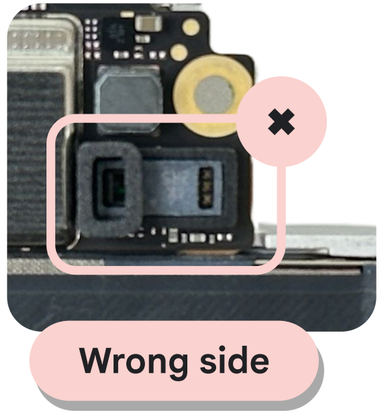
Part: G806-13064-01 (P-sensor foam)

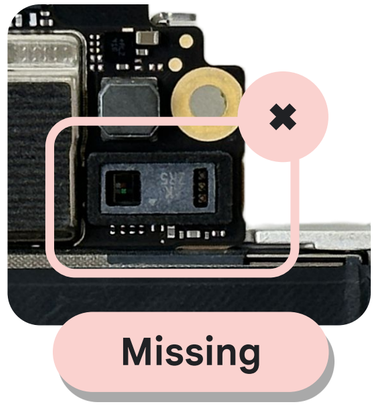
Note

Skip this step if the **P-sensor foam** isn't removed or deformed during disassembly.

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







Reuse the DJ flex

- Clean any **DJ shear PSA** residue from the **DJ flex** with an **ESD spudger**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: G949-01440-00 (DJ flex)



Assemble the CJ and DJ flex

Buckle the **CJ flex** and **DJ flex** to the **logic board** in a sequence.

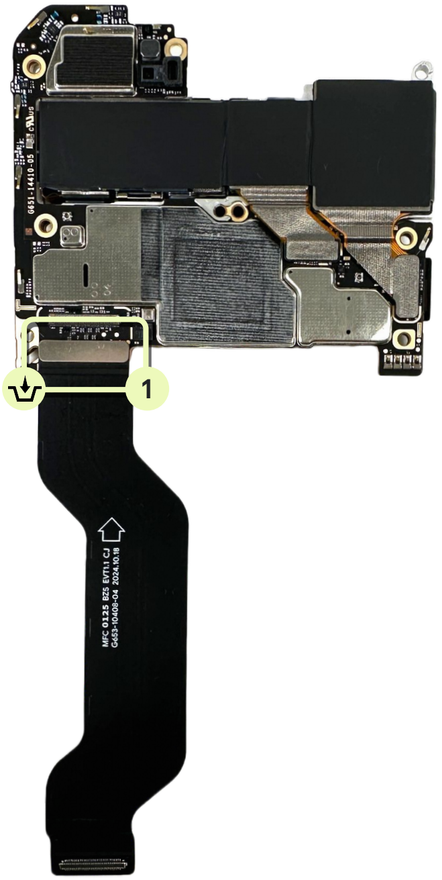
Part: G949-01441-00 (CJ flex)

Part: G949-01440-00 (DJ flex)

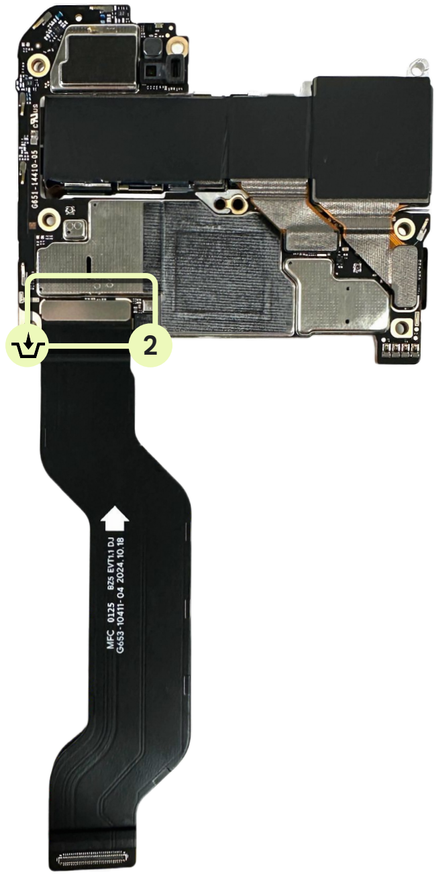
Note

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

Ensure that every **connector** is fully attached to the **logic board**.



CJ flex



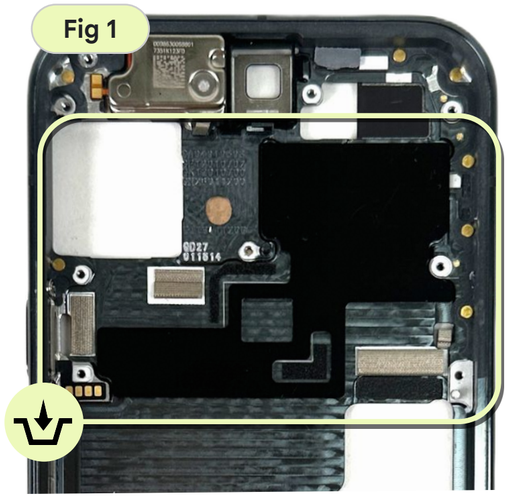
DJ flex

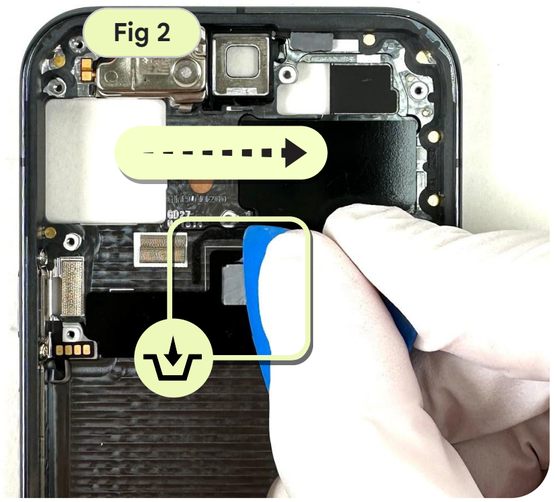
Apply the thermal grease

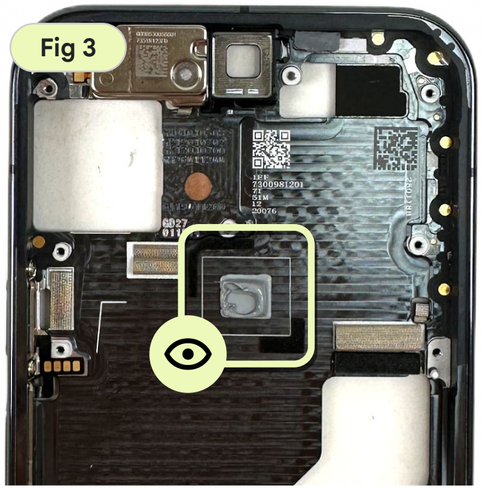
- Slightly remove the **extended foam liner** and place the **Pixel 10 Pro thermal grease alignment fixture** on the **enclosure**, and make sure it goes around the positioning post and boss hole as shown in Fig 1.
- Fill the cutout on the fixture with **thermal grease**.
- Distribute the grease evenly with an **opening pick**, moving in a single direction as shown in Fig 2.
- Lift the **fixture** straight up to avoid contamination as shown in Fig 3.

Part: G160-01459-00 (thermal grease)

Part: G160-01481-00 (thermal grease)







Use caution

***Don't* press the graphite.**

Review safety precautions before work.

Clean the **Pixel 10 Pro thermal grease alignment fixture** and **opening pick** after each use.

Avoid applying conductive thermal grease to nearby components.

Note

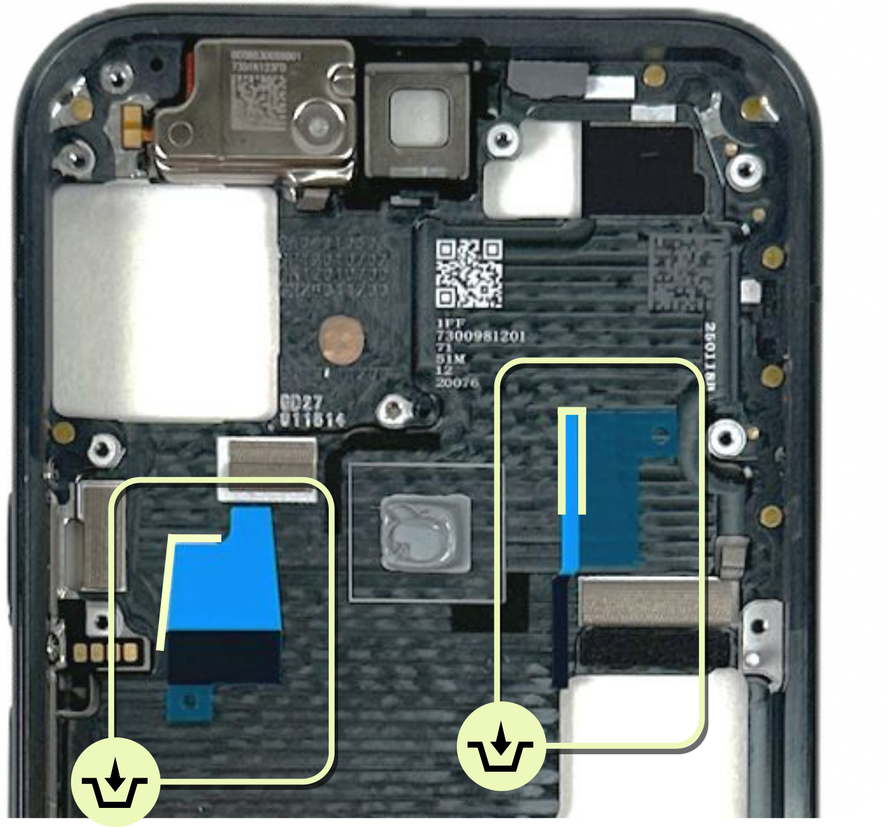
Use a **dust-free cotton swab** to clean up any excess thermal grease.

Attach strip shield 1 and strip shield 2

Attach the **strip shield 1** and **strip shield 2** to the outline on the **enclosure** with **ESD tweezers**.

Part: G806-16681-01 (strip shield 1)

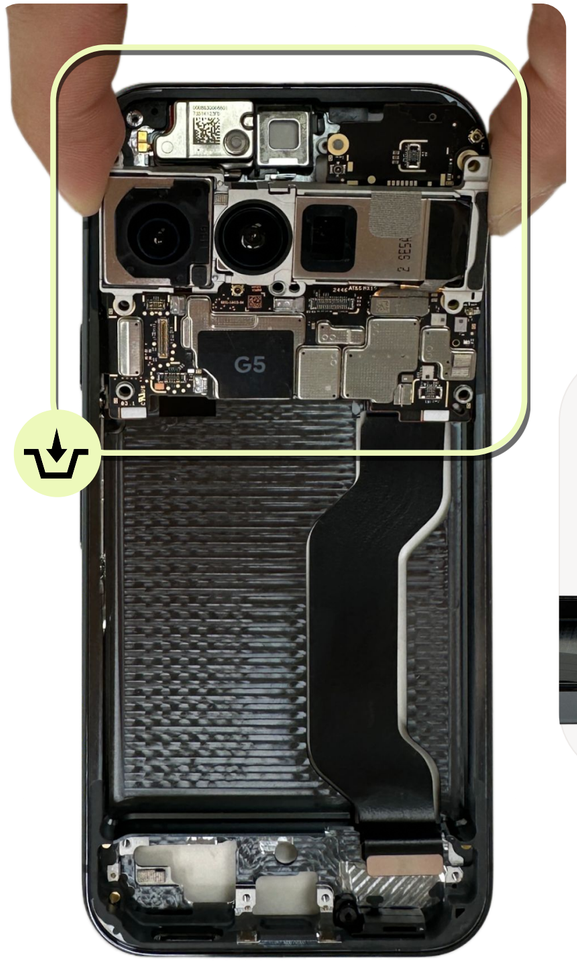
Part: G806-15985-01 (strip shield 2)

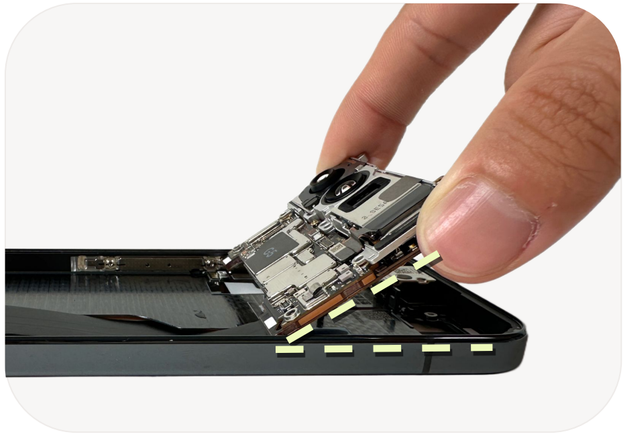


Assemble the logic board

- Remove **two MLB shear PSA liners**.
- Assemble the **logic board** to the **enclosure** from the **top side** at an angle.

Part: multiple part numbers (logic board)





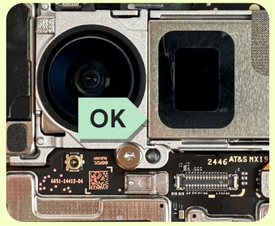
Use caution

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

Note

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

Make sure that the logic board is properly installed by ensuring the positioning post goes through the **boss hole**.



Insert the SIM tray

Insert the **SIM tray** into the slot.

Part: multiple part numbers (SIM tray)

Note

This step is only present in the **sub6 SKU**.



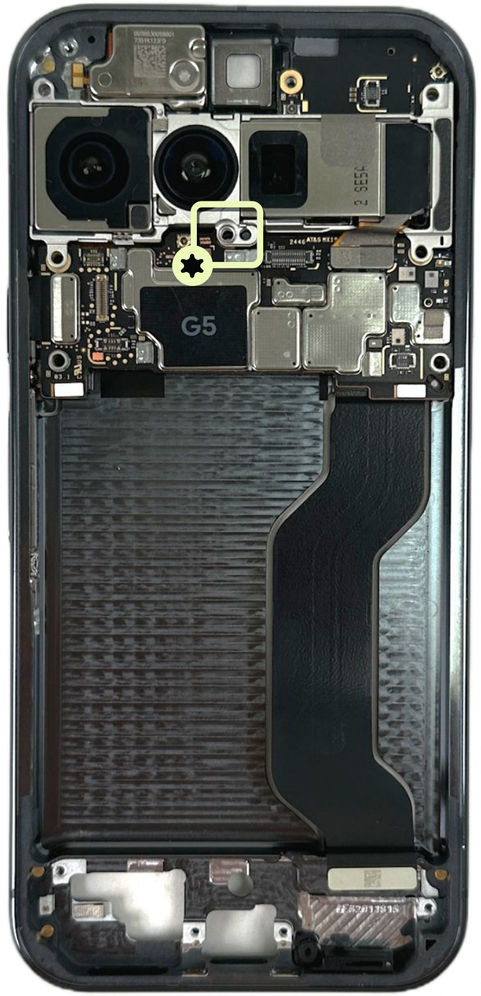
Fasten the screw

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

Part: G250-07878-04 (screw)

Use caution

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



Assembly instructions

ANT4 board

Clean the enclosure

- Clean the **mic3 mesh** 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 **mic3 mesh** residue on the **ANT4 board** with **ESD tweezers**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: G949-01436-00 (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**.

Replace the mic3 mesh

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

Part: G806-14784-30 (mic3 mesh)





Assemble the ANT4 board

Grab the **ANT4 board** securely along with the hook with **ESD tweezers** and attach it to the **enclosure**.

Part: G949-01436-00 (ANT4 board)

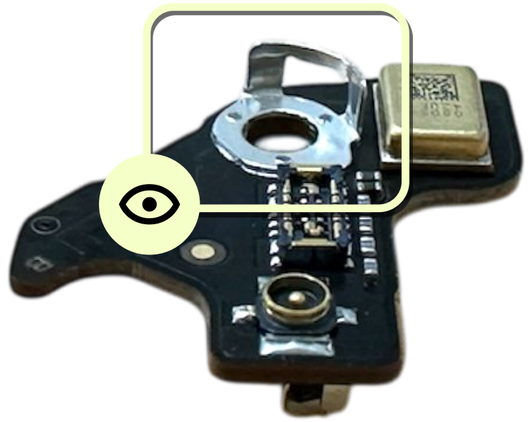
Use caution

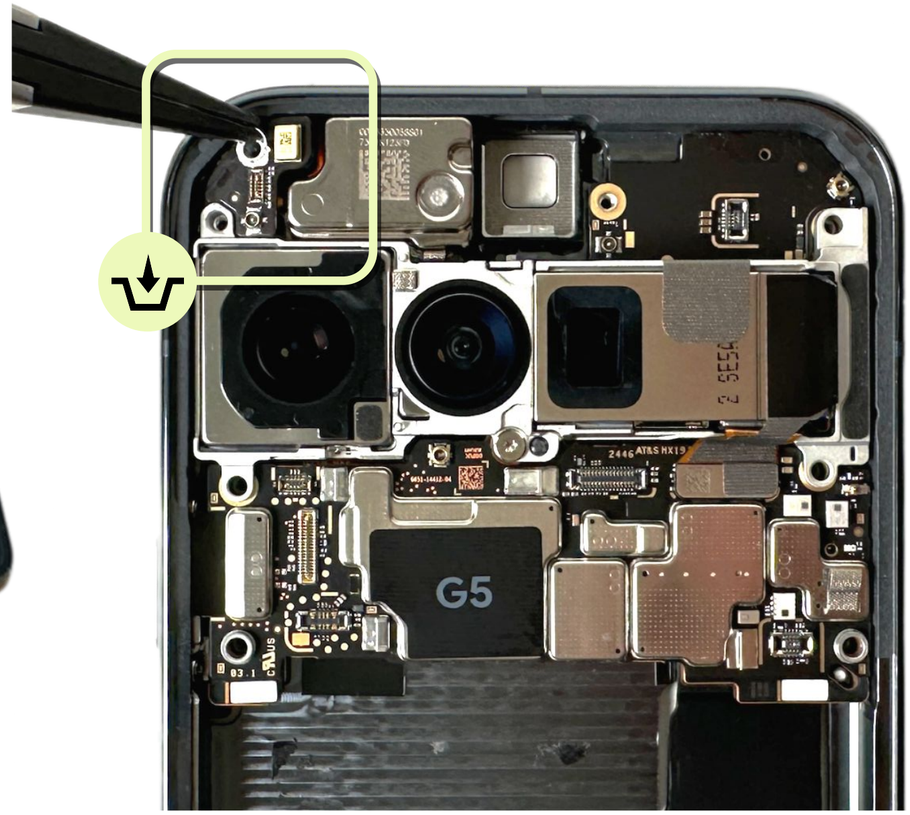
Make sure that the **mic3 mesh liner** is removed before assembly.

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

Note

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





Secure the ANT4 board

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

Part: G250-07891-04 (screw)



Use caution

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

Buckle the coaxial cable

- Buckle the **coaxial cable connectors** with an **ESD spudger**.
- Route the **coaxial cable** under the **top speaker** and front camera bracket bottom side as shown in **Fig 1**.

Part: G821-01167-03 (coaxial cable)

Note

Make sure that the **connector** is in the **right position**.

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

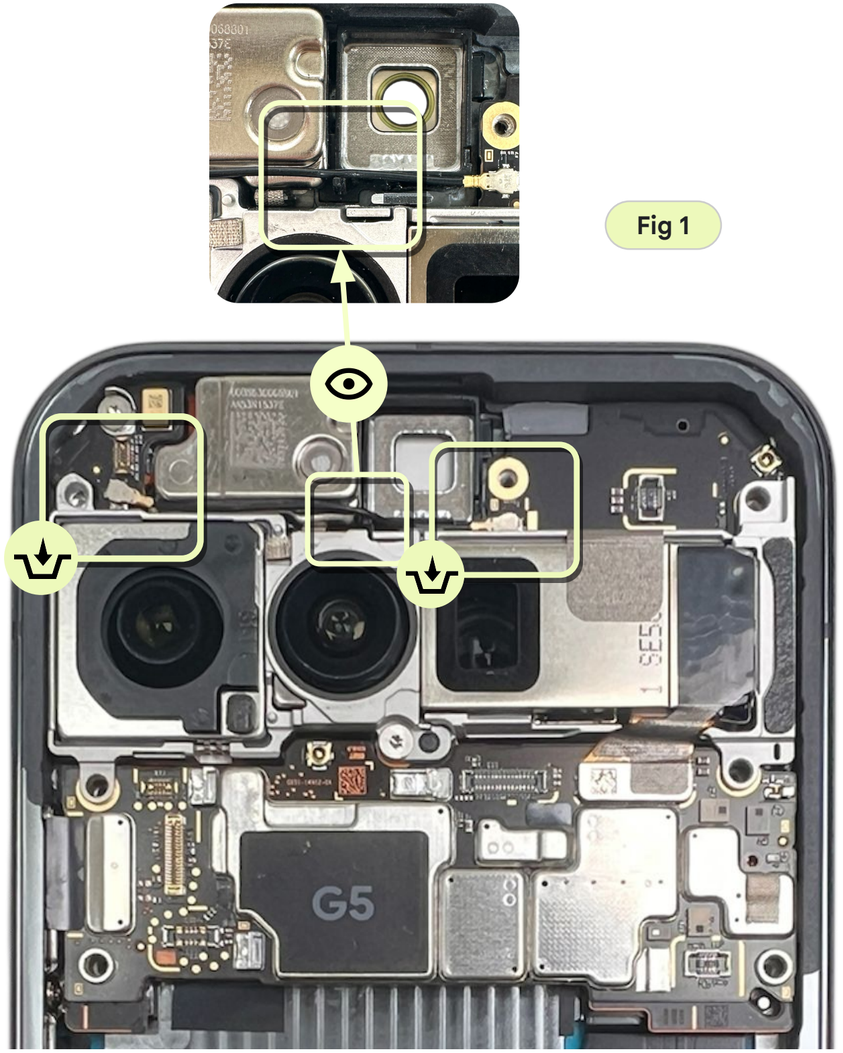


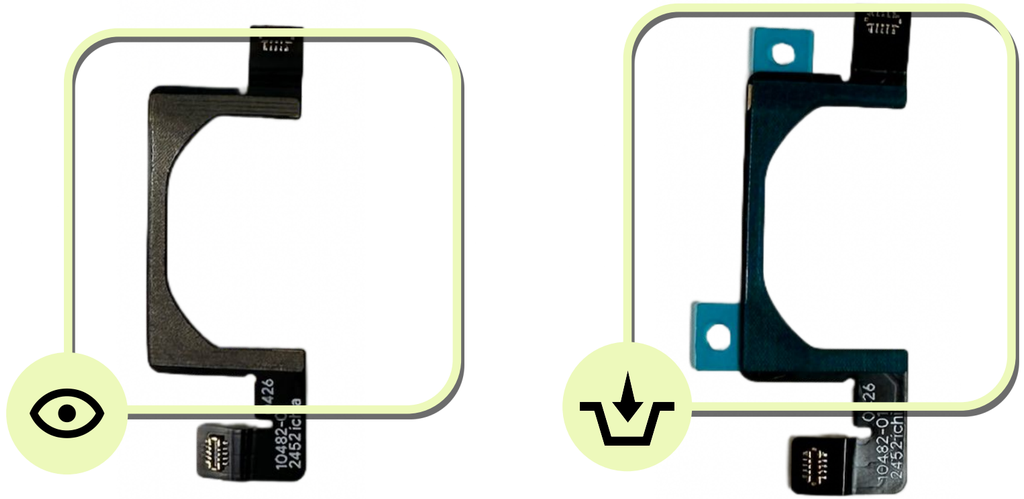
Fig 1

Reuse the SPAM flex

- Clean the adhesive residue on the **SPAM flex** with **ESD tweezers**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.
- Attach the **SPAM flex PSA** to the reused SPAM flex according to the outline.

Part: G949-01439-00 (SPAM flex)

Part: G806-16180-00 (SPAM flex PSA)



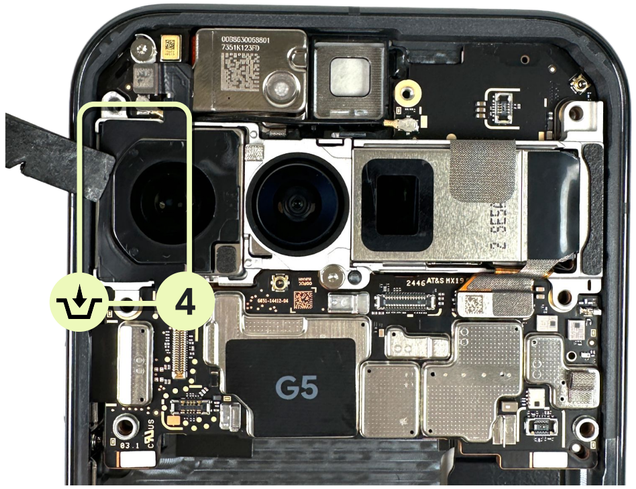
Assemble the SPAM flex

- Buckle the **lower SPAM flex connector** and remove the SPAM flex PSA liner.
- Buckle the **upper SPAM flex connector**.
- Ensure that the adhesive fully adheres with the **ESD spudger**.

Part: G949-01439-00 (SPAM flex)







Use caution

Avoid touching the **rear camera lenses**.

Note

Check if both **connectors** are fully attached to the **logic board** and the **ANT4 board**.

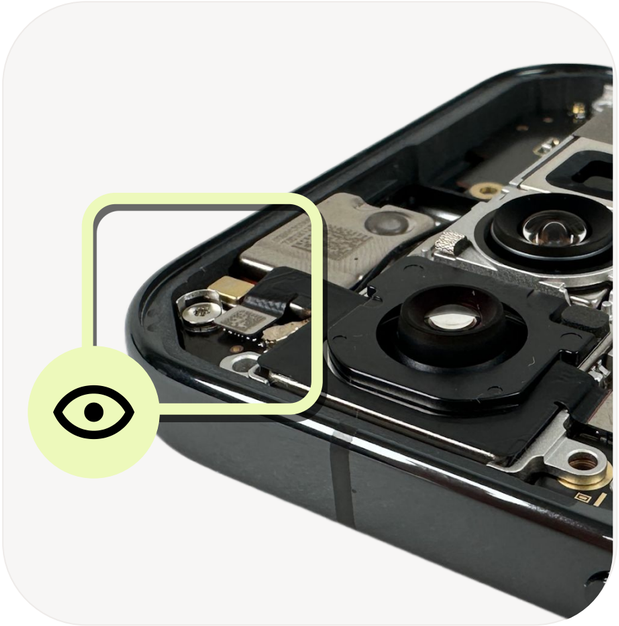
Assemble the ANT4 cowling

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

Part: G730-09426-01 (ANT4 cowling)

Note

Install the **ANT4 cowling** into the **hook**.





Fasten the screw

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

Part: G250-07891-04 (screw)



Use caution

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

Assembly instructions

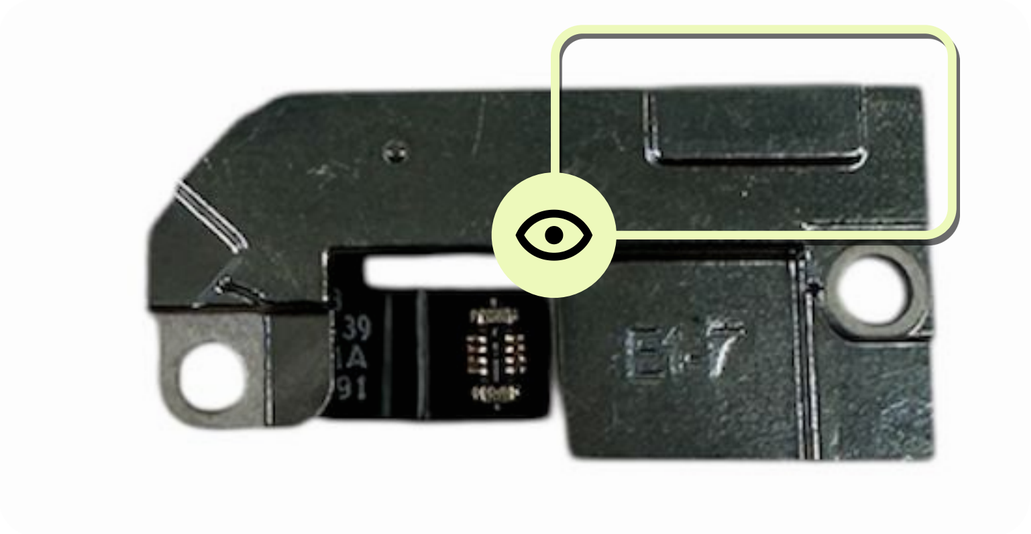
mmWave module

Reuse the mmWave module

- Clean the **mmWave TIM** residue with an **ESD spudger**.
- Use a **dust-free cloth** with **IPA** where needed.

Part: G949-01442-00 (mmWave module)

> **Note**
>
> This step is only present in the **mmWave SKU**.



Apply the thermal TIM_mmWave

- Align the **thermal TIM_mmWave** with **ESD tweezers** and press gently with your hand.
- Carefully remove the **liner**.

Part: G864-01024-03 (thermal TIM_mmWave)



Note

Undamaged **thermal TIM_mmWave** could be reused.

Otherwise, they should be replaced.

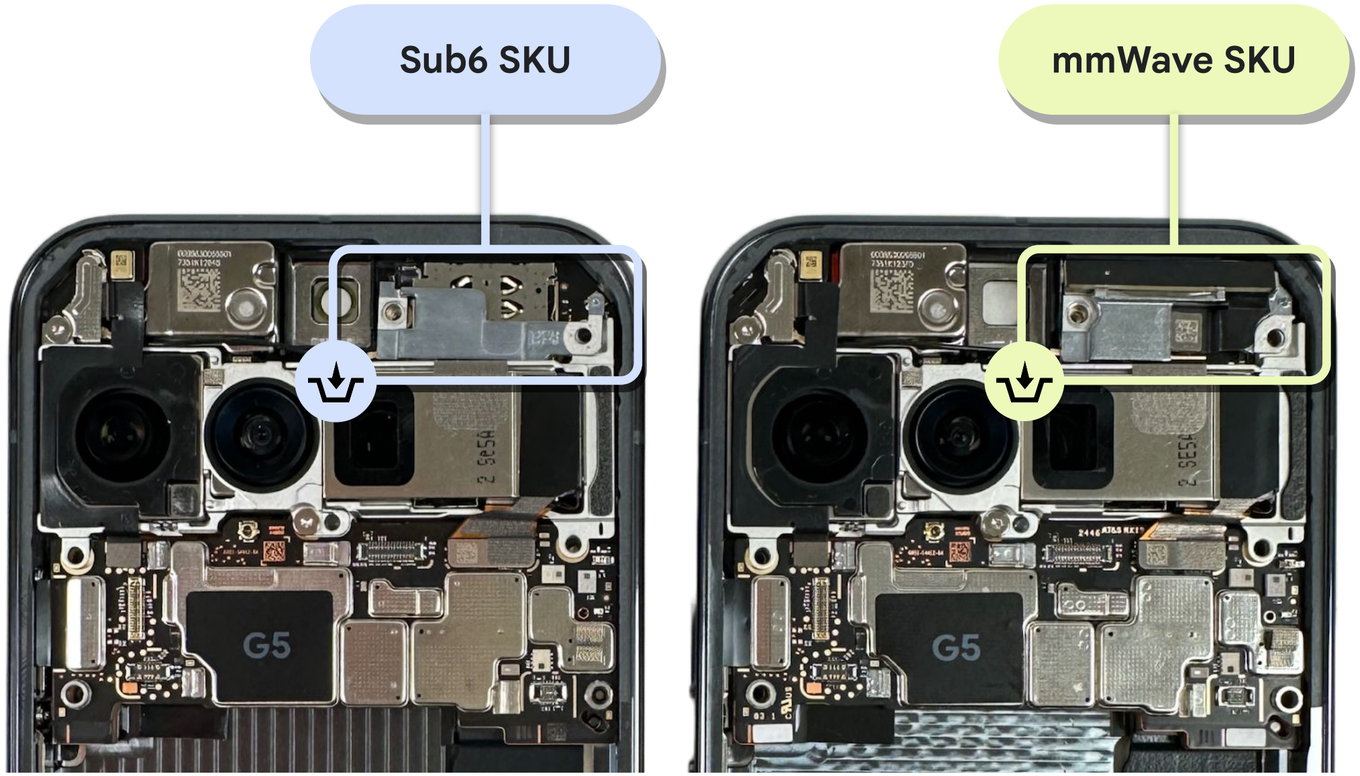
This step is only present in the **mmWave SKU**.

Assemble the mmWave module or heatsink_Sub6

Assemble the **mmWave module** or the **heatsink_Sub6**.

Part: G949-01442-00 (mmWave module)

Part: G850-00756-00 (heatsink_Sub6)



Connect the mmWave module

Buckle the **mmWave module connector**.

Part: G949-01442-00 (mmWave module)

Note

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

This step is only present for the **mmWave SKU**.



Fasten the screw

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

Part:G250-07839-04 (screw)



Use caution

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

Assembly instructions

Front camera

Clean the enclosure

- Clean the adhesive 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)



Note

Undamaged **FCAM adhesive** could be reused.

Otherwise, they should be replaced.

Reuse the front camera

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

Part: G949-01437-00 (front camera)

Use caution

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



Attach the FCAM CPSA

- Attach the **FCAM CPSA** to the **enclosure** with **ESD tweezers**.
- Apply gentle pressure to ensure proper attachment.

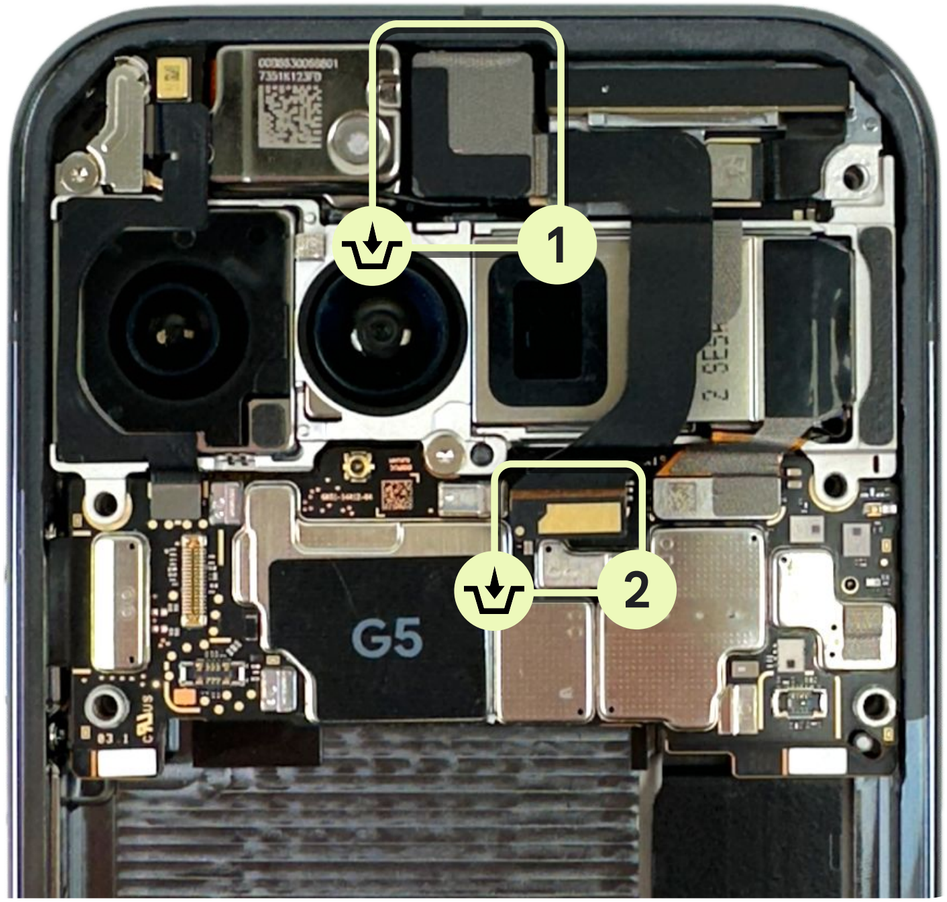
Part: G806-14192-01 (FCAM CPSA)



Insert the front camera

- Tear off the liner and assemble the **front camera** to the **enclosure**.
- Apply gentle pressure on the **camera** area to ensure proper attachment.
- Connect the **front camera** to the **logic board**.

Part: G949-01437-00 (front camera)



Use caution

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

Note

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

Assemble the FCAM cowling

Assemble the **FCAM cowling** to the **enclosure** at an angle to the top.

Part: G730-09462-25 (FCAM cowling-mmWave)

Part: G730-09462-26 (FCAM cowling-sub6)





Note

Make sure that the **FCAM cowling** goes under the enclosure slot.

Fasten the screw

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

Part: G250-07878-04 (screw)

Use caution

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

Note

Make sure that the **FCAM cowling** is properly installed by ensuring the positioning post.





Assemble the tele cowling

- Assemble the **tele cowling** with **ESD tweezers**.
- Secure the **tele cowling screw** with a **torx plus 3IP screwdriver**.

Part: G250-07878-04 (screw)

Part: G730-10080-01 (tele cowling)

Use caution

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



Assembly instructions

Display

Reuse the enclosure

- Inspect the **enclosure** for any adhesive residue.
- Carefully and slowly peel off the adhesive with your hand, in one piece.
- Use an **ESD spudger** to clean it. If needed, use a **dust-free cloth** with **IPA** to clean the surface.

Part: multiple part numbers (enclosure)



Apply the primer on 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**.

Part: multiple part numbers (enclosure)



Use caution

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

Align the adhesive

- Slowly remove the larger liner from the **adhesive sheet** to expose the adhesive.
- Place the **adhesive** according to the outline of the **enclosure**.

Part: G806-20010-50 (display adhesive)



Use caution

Don't touch the **adhesive**.

If it gets dirty, replace it with a new one.

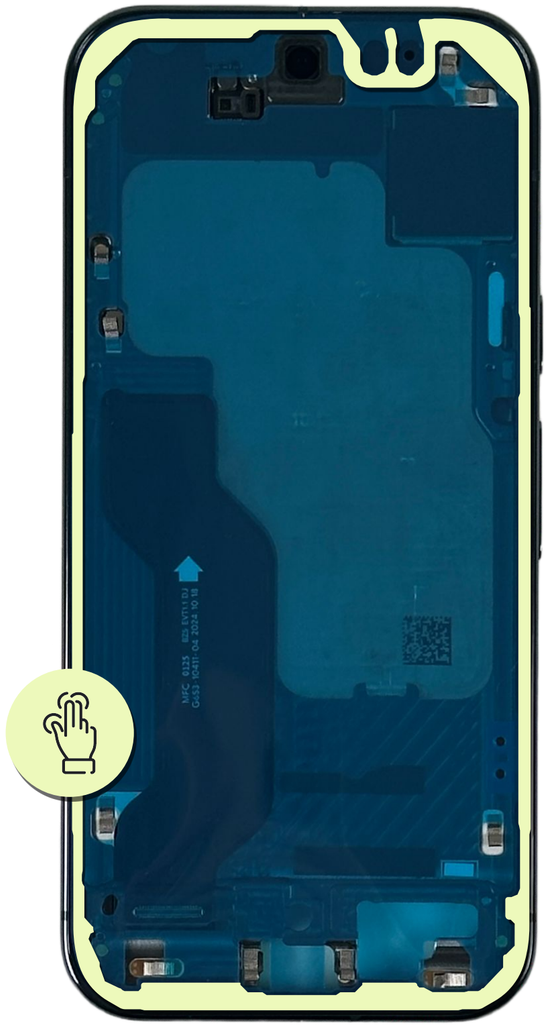
During assembly, handle the springs with care to avoid damage.

Note

Make sure that the **adhesive** fits properly onto the **enclosure**.

Activate the adhesive (first time)

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



Remove the liner (first layer)

Carefully pull the tab to remove the **liner**'s first layer, by avoiding lifting the **adhesive**.

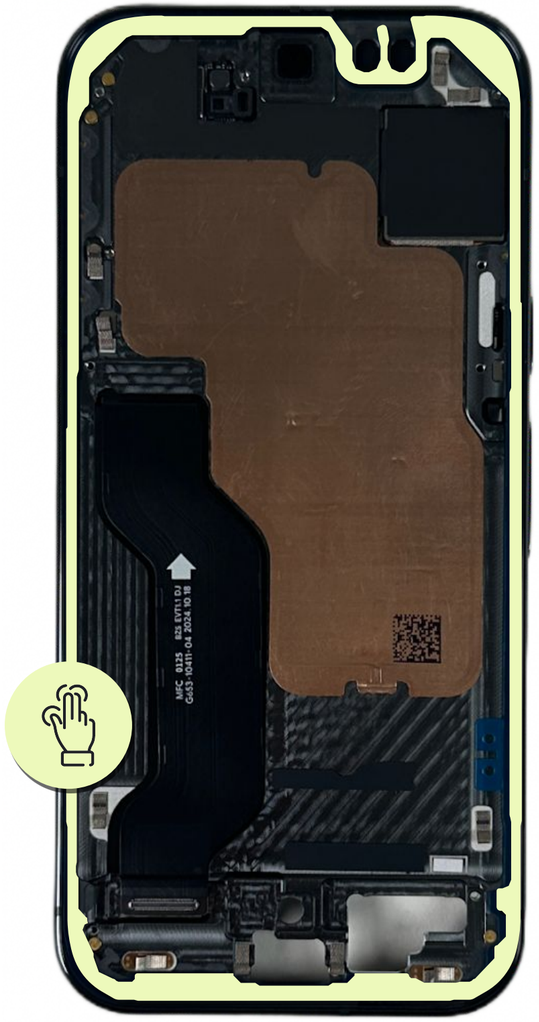
Use caution

***Don't* remove the second layer of the liner.**



Activate the adhesive (second time)

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



Check the display

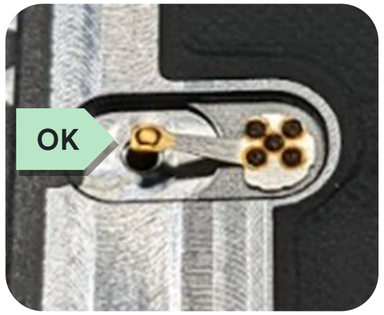
General rules

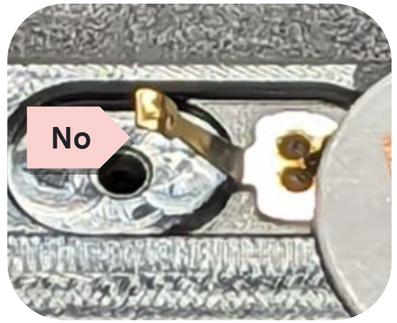
Use caution

Before you assemble, inspect the **display** for any spring deformation.

During assembly, handle the springs with care to avoid damage.

Spring







Prepare the display

- If you use a new **display**, remove the **shim** at the bottom**, FCAM liner and label**.
- Inspect the reused **display** for any adhesive residue.
- Carefully and slowly peel off the adhesive with your hand, in one piece.
- Use an **ESD spudger** to clean it. If needed, use a **dust-free cloth** with **IPA** to clean the surface.

Part: G949-01418-00 (display module)



Reused display



New display

Apply the primer on 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**.

Part: G949-01418-00 (display module)



Use caution

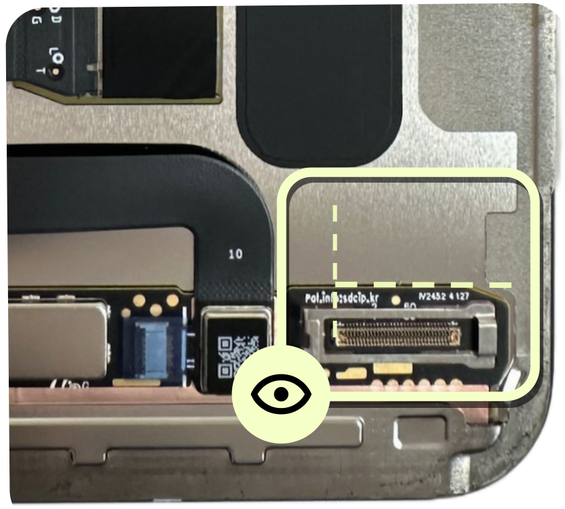
When you apply **IPA** and **AP111 primer** to the **display module**, avoid touching the copper and the sponge areas.

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

Attach the DJ shear PSA

Apply the **DJ shear PSA** to the **display module** and align it with a **dashed line** with **ESD tweezers**.

Part: G806-20030-24 (DJ shear PSA)





Connect the display

- Use the **absorption bulb** to prop up the **display module**.
- Apply even pressure across the **connector** to connect the **DJ flex** to the **display module** and ensure a full engagement.

Part: G949-01418-00 (display module)



Use caution

When you attach the **display module**, ensure that the **driver IC (COF)** isn't damaged or deformed.

Check if all **connectors** are fully attached to the **display module**.

Insert the display cowling

- Gently push the **display cowling** inside the left hook to snap it into place.
- Remove the **DJ flex PSA liner** and gently press on the adhesive area to ensure attachment.

Part: G730-10011-13 (display cowling)



Use caution

***Don't* remove the liner yet.**

Avoid scratching the **flex** against the **graphite**.

Remove the liner (second layer)

Carefully peel the **display adhesive liner** off with **ESD tweezers**.

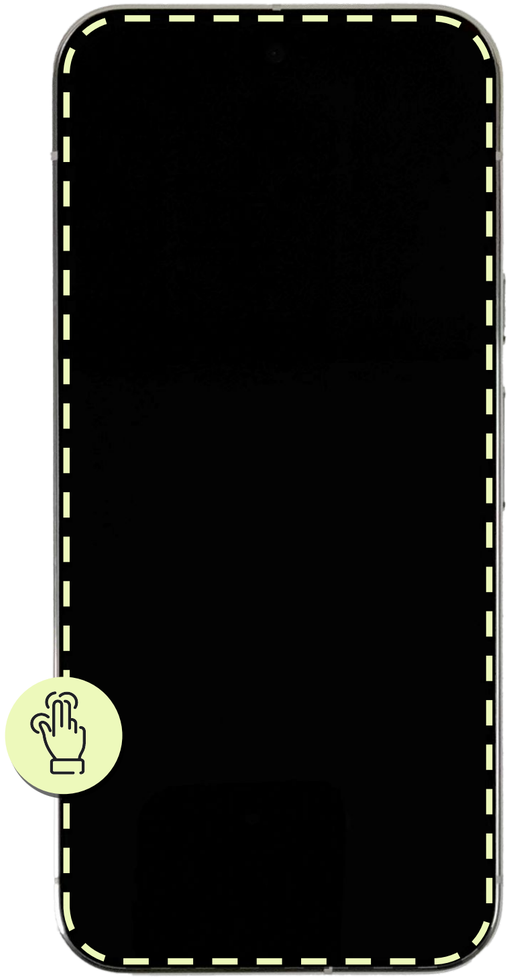


Activate the adhesive

- Attach the **display module** to the **enclosure** by aligning and lowering it vertically.
- Press along the **display bezel** with both hands to ensure proper attachment.

Use caution

Initially, press the center of the top edge, then continue along the two longer sides, and finish with the bottom edge.



Assembly instructions

Vibrator

Prepare for the vibrator attachment

- Remove any **adhesive** residue in the **vibrator** slot with an **ESD spudger**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: multiple part numbers (enclosure)

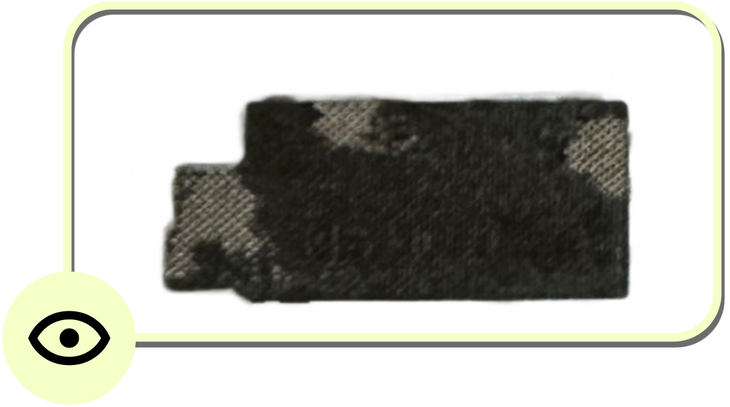


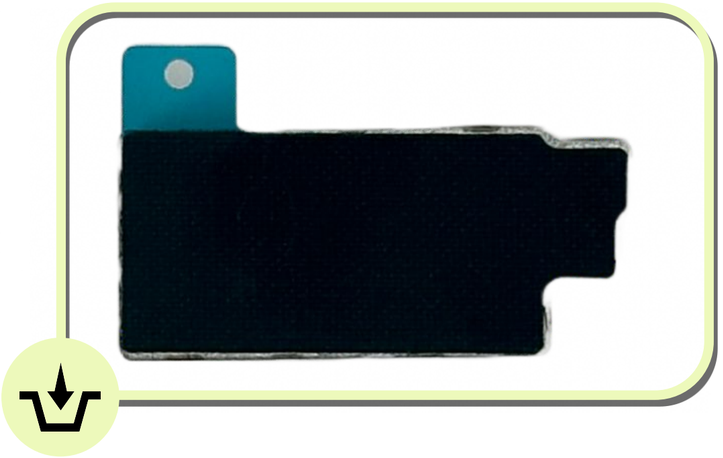
Reuse the vibrator

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

Part: G710-07500-00 (vibrator)

Part: G806-13155-00 (vibrator PSA)





Attach the vibrator

- Remove the **vibrator PSA liner**.
- Slot the **vibrator** into place according to the upper right corner.
- Press for **5 seconds** manually.

Part: G710-07500-00 (vibrator)



Assembly instructions

Chin board

Check the chin board

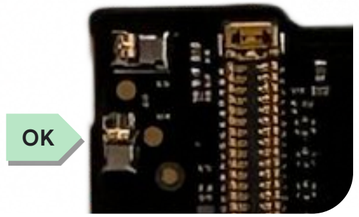
Use caution

Before you assemble the **chin board**, check for springs and pins deformation.

During assembly, be **particularly cautious** to prevent any damage to the springs.

General rules

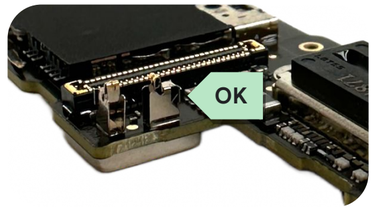
Bird view

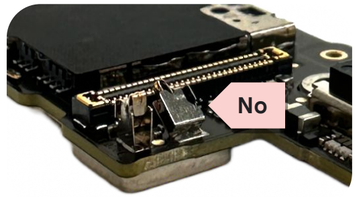




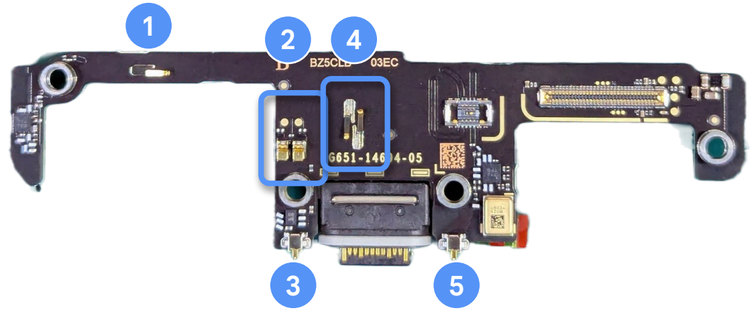
Missing

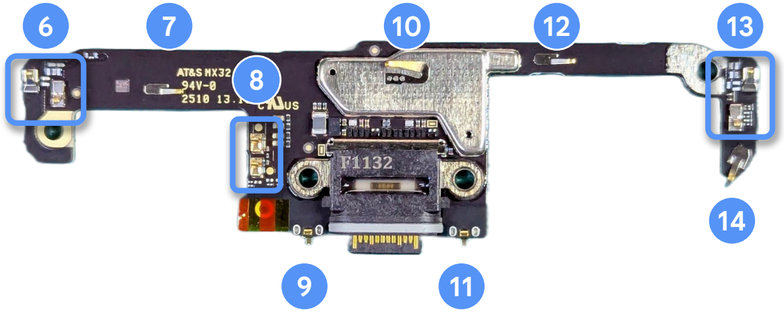
Side view





Broken



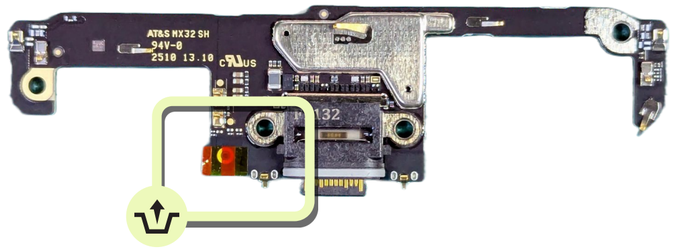


Prepare the chin board

- When you use a new **enclosure**, remove the **mic1 bracket liner**.
- When you replace the **chin board**, remove the **mic1 Kapton** from the new **chin board**.

Part: multiple part numbers (enclosure)

Part: G949-01435-00 (chin board)





Use caution

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

Make sure that **all liners** are removed before assembly.

Note

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

Install the chin board

Install the **chin board** downward at a slight angle to make sure that the USB port goes inside the slot on the **enclosure**.

Part: G949-01435-00 (chin board)

Note

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

Push gently to ensure that the **chin board** goes under the **retaining wall** above and that the lower two springs touch the metal sheets on the **enclosure**.



Assembly instructions

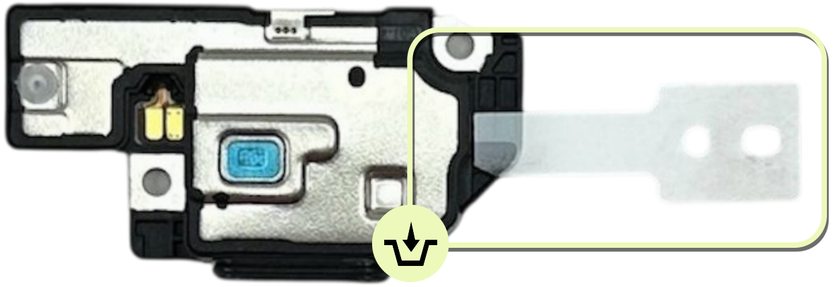
Bottom speaker

Attach the bottom speaker foam

Place the **bottom speaker foam** according to the outline of the **bottom speaker**.

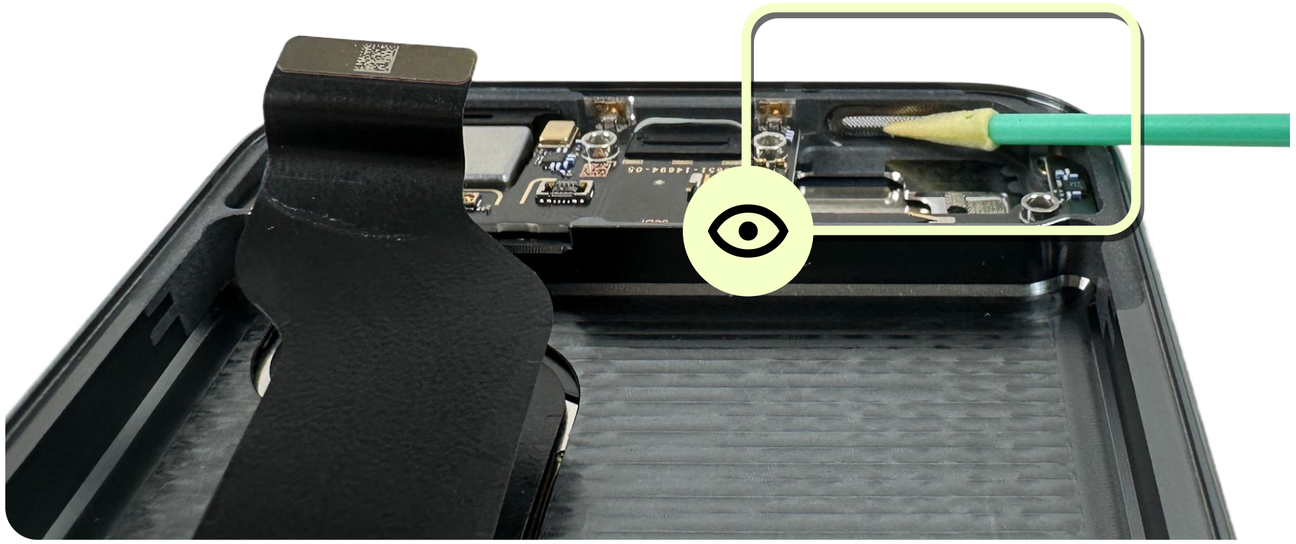
Part: G806-16072-15 (bottom speaker foam)





Apply the dry lube

Apple dry lube to the **bottom speaker** port.



Embed the bottom speaker

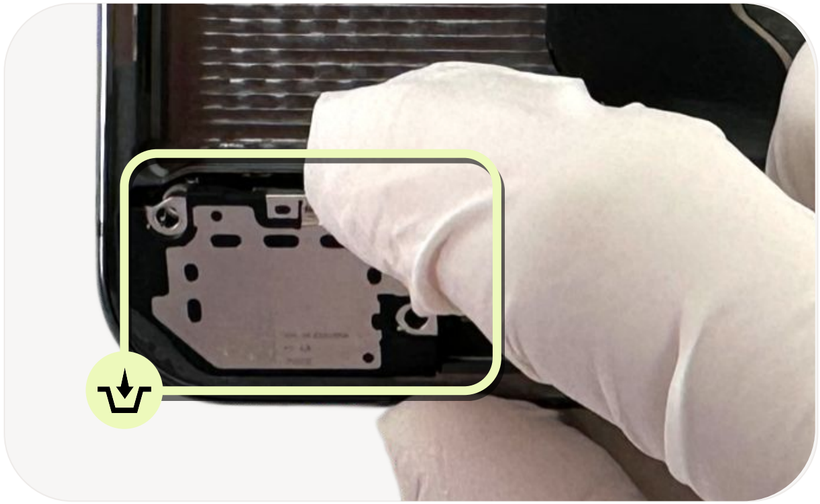
Slot the **bottom speaker** into the **enclosure** at an angle.

Part: G863-00649-04 (bottom speaker)

Note

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





Fasten the screws

Fasten the **two bottom speaker screws** in a sequence with a **torx plus 3IP screwdriver**.

Part: G250-07891-04*2 (screw)

Use caution

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



Assembly instructions

Battery

Clean the residue

- Remove any adhesive residue in the **battery** area with an **ESD spudger**.
- Apply **IPA** with a **dust-free cloth** where needed.

Part: multiple part numbers (enclosure)



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** on the **enclosure** with a **dust-free cotton swab**.

Part: multiple part numbers (enclosure)



Use caution

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

Align the battery

- Buckle the **CJ flex** to the **chin board**.
- Confirm the battery model to be **GLE28**. If the model number isn't **GLE28**, *don't* use the battery.
- Use an **absorption bulb** to pick up the **battery**.
- Align the **battery white liner** to the lower right corner of the depression.
- Gently press the **battery** down with the **absorption bulb**.
- Remove the **white liner** from the **top side** to lift it up after assembling the battery.

Part: multiple part numbers (battery)



Use caution

Review all safety precautions before you begin work.

Note

The **white liner** makes sure the **battery** is in the correct position.

Don't remove it prior installation.

Prepare to press - first press

- Place the **universal holder** in the **C3 position** on the **universal base 12 mm**.
- Place the **universal supporting rubber** and the **universal holder limiting block** on the **universal holder** in a sequence as shown in Fig 1.
- Place the **device** and **lock** it as shown in Fig 2.
- Place the **Pixel 10 Pro battery press rubber** as shown in Fig 3.

Note

Ensure that the **universal holder** is in the right position.

Ensure that the **display** is already assembled.

Fig 1



Fig 2



Fig 3

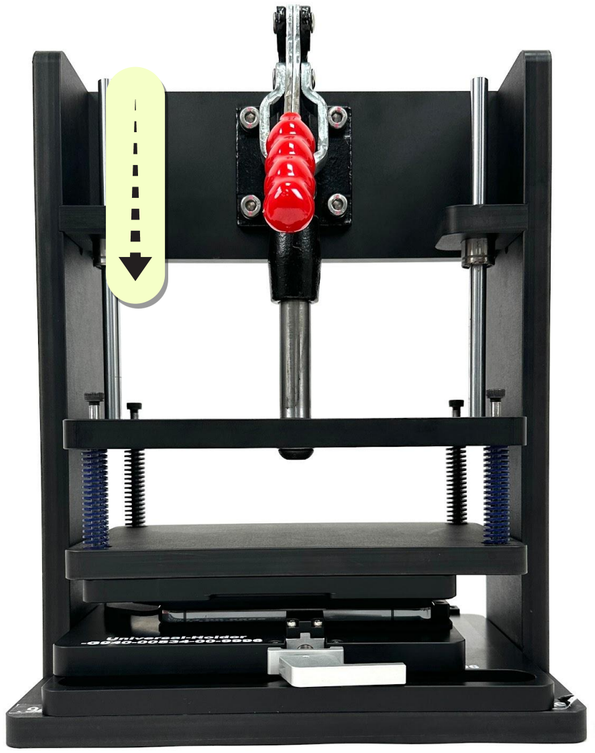


Prepare to press

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

> ⚠ **Use caution**
>
> Pinch point.
>
> Keep your hands clear during operation.





Prepare to press - second press

- Place the **universal holder** in the **C5 position** on the **universal base 12 mm**.
- Place the **universal supporting rubber** and the **universal holder limiting block** on the **universal holder** in a sequence as shown in Fig 1.
- Place the **device** and **lock** it as shown in Fig 2.
- Place the **Pixel 10 Pro battery press rubber** as shown in Fig 3.

Note

Ensure that the **universal holder** is in the right position.

Ensure that the **display** is already assembled.

Fig 1



Fig 2

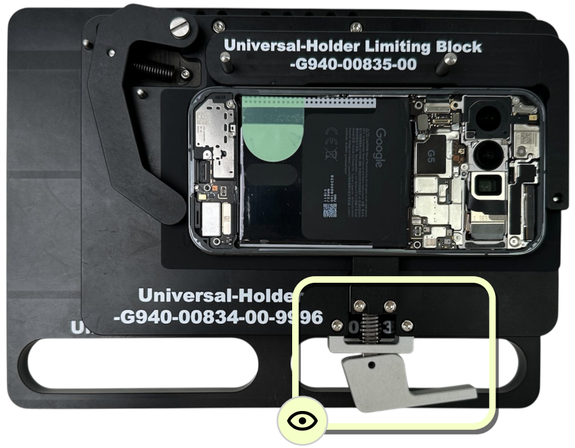


Fig 3

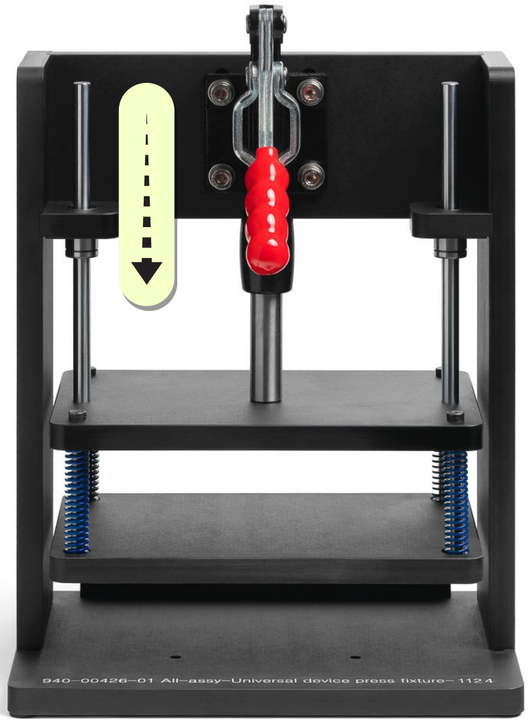


Prepare to press

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

> ⚠ **Use caution**
>
> Pinch point.
>
> Keep your hands clear during operation.

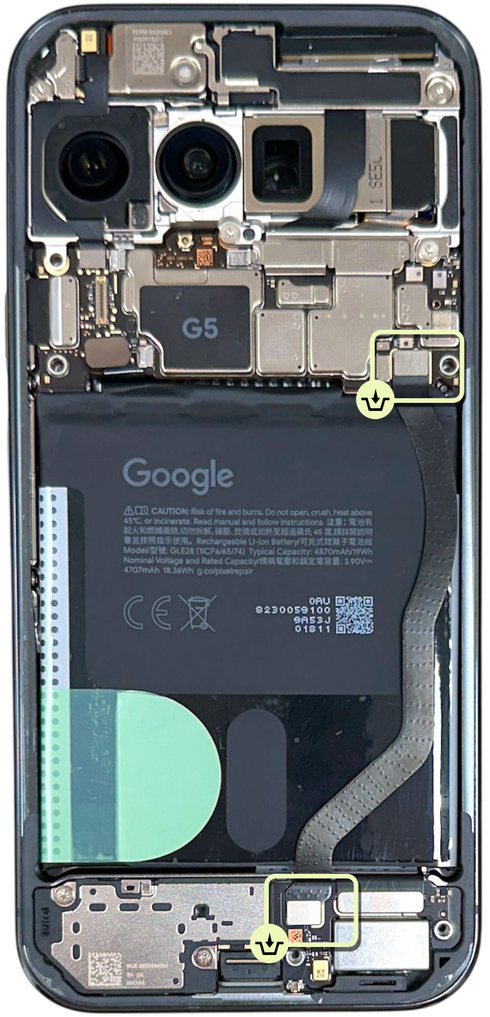




Assemble the RJ flex

Connect the **chin board** to the **logic board** with the **RJ flex**.

Part: G652-10414-03 (RJ flex)



Note

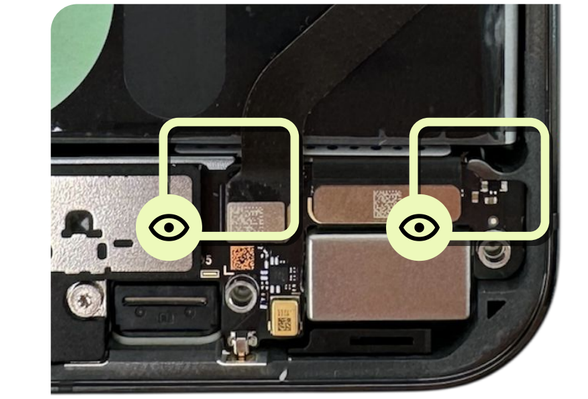
Ensure that the **RJ flex connectors** are fully attached to both the **logic board** and the **chin board**.

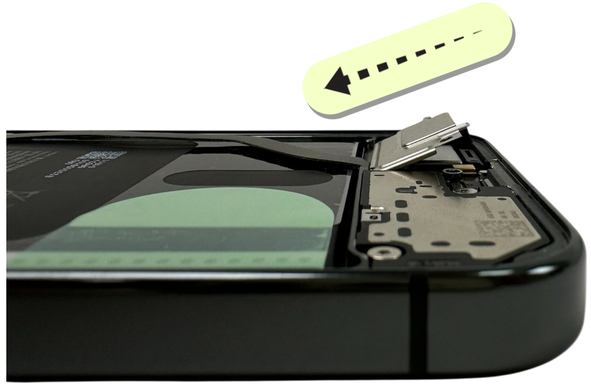
Assemble the CLB cowling

- There are **hooks** on the **retaining wall** as shown in Fig 1.
- Assemble the **CLB cowling** into the **hook** at an angle.

Part: G730-09460-11 (CLB cowling)

Fig 1







Fasten the screws

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

Part: G250-07891-05*2 (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 and damage the battery or the product.

Assemble the RF cowling

- Assemble the **RF cowling** into the **hook** with **ESD tweezers**.
- Fasten the **RF cowling screws** with a **torx plus 3IP screwdriver**.

Part: G730-09804-01 (RF cowling)

Part: G250-07876-04 (screw)



Use caution

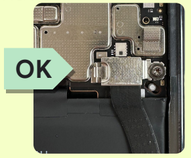
Be careful when you use the screwdriver.

Don't damage the adjacent **battery**.

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

Note

Don't insert the **RF cowling** too deeply, as it might cause deformation.



Connect the battery

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

> **Note**
>
> Check if the **battery connector** is fully attached to the **logic board**.



Assembly instructions

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**.

Part: multiple part numbers (enclosure)

Use caution

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



Align the adhesive

- Slowly remove the larger liner from the **adhesive sheet** to expose the adhesive.
- Place the **adhesive** according to the outline of the **enclosure**.

Part: G806-13890-33 (BG adhesive)



Use caution

Don't touch the **adhesive**.

If it gets dirty, replace it with a new one.

Handle the springs with care to avoid damage.

Note

Ensure that the **adhesive** fits properly onto the **enclosure**.

Activate the adhesive (first time)

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

Use caution

Don't touch the **RCAM** area during the process.



Remove the liner (first layer)

Carefully pull the tab to remove the **liner's** first layer, and avoid lifting the **adhesive**.

Use caution

Don't touch the **RCAM** area during the process.

Don't remove the second layer of the **liner**.



Activate the adhesive (second time)

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



Use caution

Don't touch the **RCAM** area during the process.

Prepare the BG sub

- If you use a new **BG sub**, remove the **RCAM protective films** and **BG graphite protective film**.
- Inspect the reused **BG sub** for any adhesive residue.
- Carefully and slowly peel off the adhesive with your hand in one piece.
- Use an **ESD spudger** to clean it. If needed, use a **dust-free cloth** with **IPA** to clean the surface.

Part: multiple part numbers (BG sub)

Use caution

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



Reused BG sub



New BG sub

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**.

Part: multiple part numbers (BG sub)



Use caution

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

Connect the BG sub

- Use the **absorption-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.

Part: multiple part numbers (BG sub)

Use caution

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



Insert the battery cowling

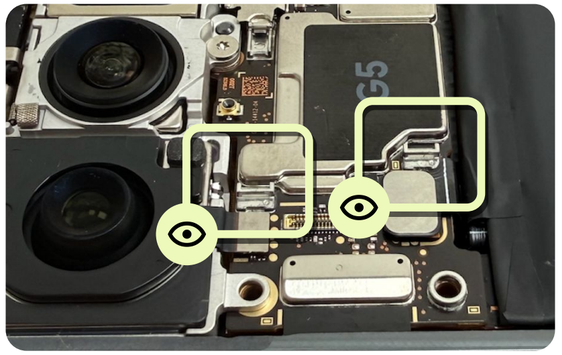
- There are **two hooks** on the **logic board** as shown in Fig 1.
- Install the **battery cowling** into the **hooks** with **ESD tweezers**.

Part: G730-09803-01 (battery cowling)

Use caution

Avoid damage to the **BG sub flex**.

Fig 1





Tighten the screws

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

Part: G250-07876-04*2 (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 and damage the **battery** or the product.

Remove the liner (second layer)

Carefully pull the tab to remove the **liner**'s second layer, and avoid lifting the **adhesive**.

Use caution

Avoid damage to the **BG sub flex**.

Don't touch the **RCAM** area during the process.



Attach the BG sub

- Attach the **BG sub** to the **enclosure** by aligning and lowering it vertically.
- Press along the **BG bezels** with both hands to ensure proper attachment.



Note

Initially, press the center of the top edge, then continue along the two longer sides, and finish with the bottom edge.

Don't press directly on the visor area during this process.

Prepare to press

- Place the **universal holder** in the **B1 position** on the **universal base 12 mm**.
- Place the **Pixel 10 Pro CG press rubber** and the **universal holder limiting block** on the **universal holder** in a sequence as shown in Fig 1.
- Place the **device** and **lock** it as shown in Fig 2.
- Place the **Pixel 10 Pro BG press rubber** as shown in Fig 3.

Note

Ensure that the **universal holder** is in the right position.

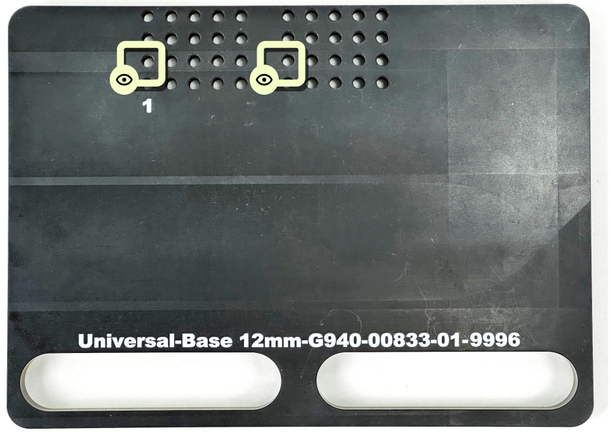


Fig 1



Fig 2

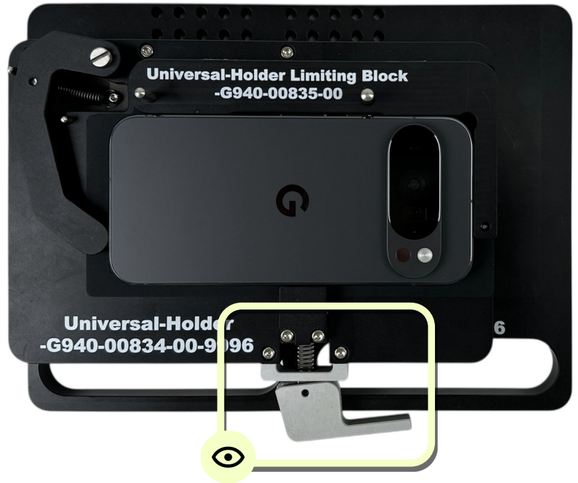
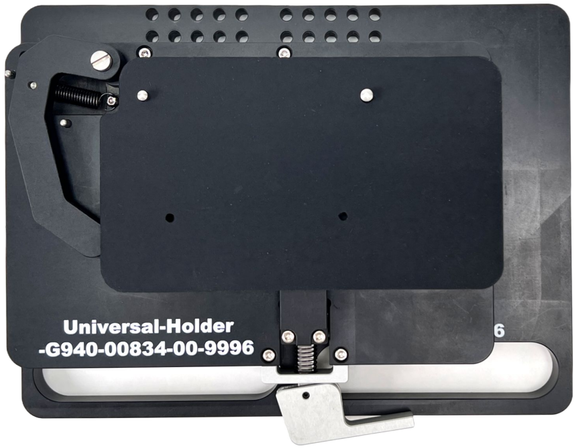


Fig 3



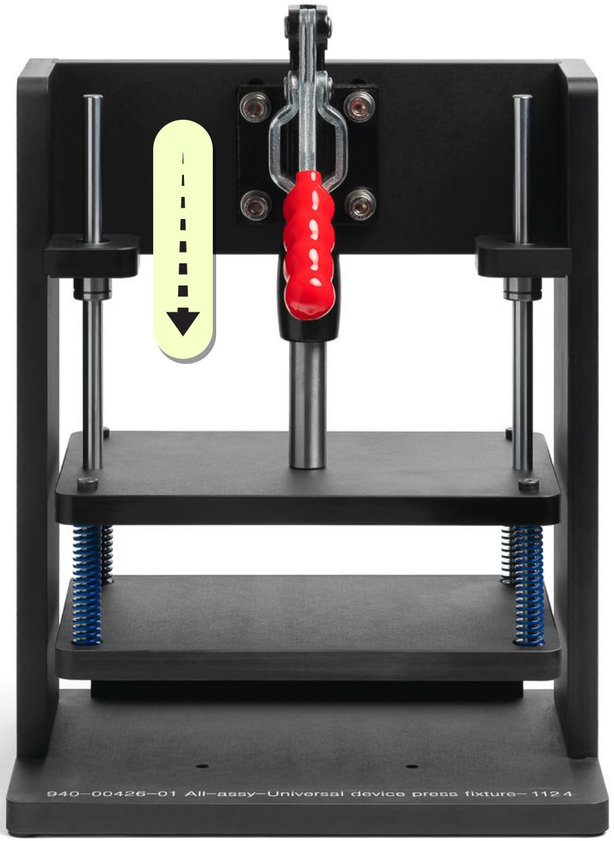
Prepare to press

- Place the **universal press plate 12 mm** on the **universal base 12 mm** as shown in Fig 1.
- Place the stack in the **universal press fixture**.
- Press the handle down for **45 seconds**.
- Restore the handle to the original position and remove the device.

> ⚠ **Use caution**
>
> Pinch point.
>
> Keep hands clear during operation.

Fig 1





Pixel 10 Pro repair manual

Troubleshooting

Sensor location

Connectors and feature location

Power

Wireless charge

Mic1

Mic2

Mic3

Top speaker

Bottom speaker

Vibrator

Display

NFC

Proximity sensor

UDFPS

Rear camera

Front camera

USB-C

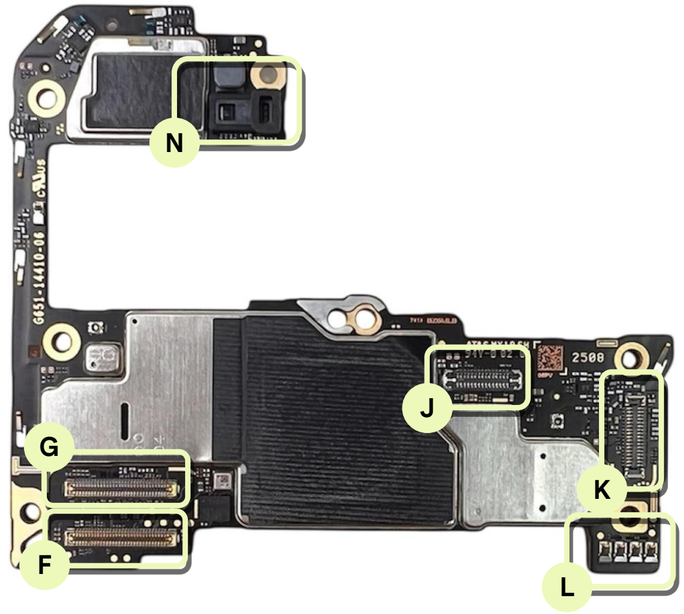
mmWave module

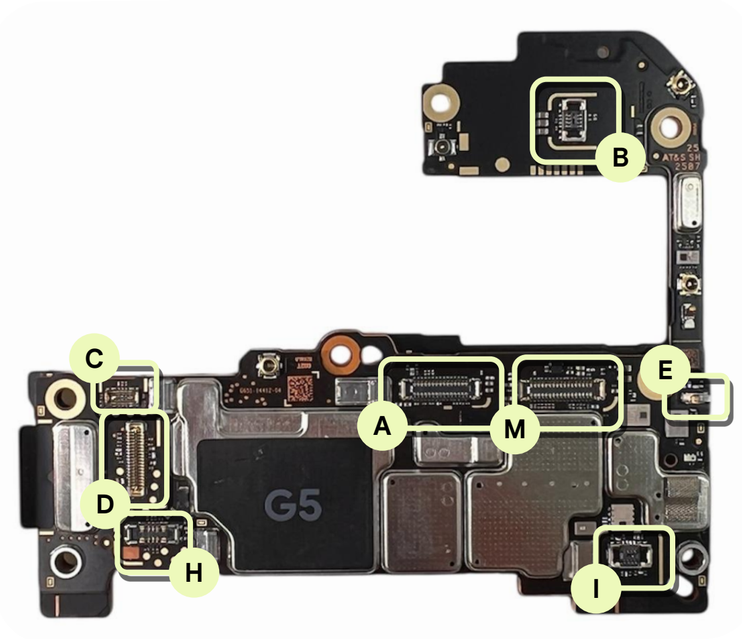
Sensor location

No	Function	Logic board	Chin board	BG sub
1	Light sensor	O		
2	P sensor	O		
3	Barometer	O		
4	Gyroscope	O		
5	Accelerometer	O		
6	Rainbow			O
7	LDAF			O
8	Magnetic 2		O	
9	BTS			O

Connectors and feature location

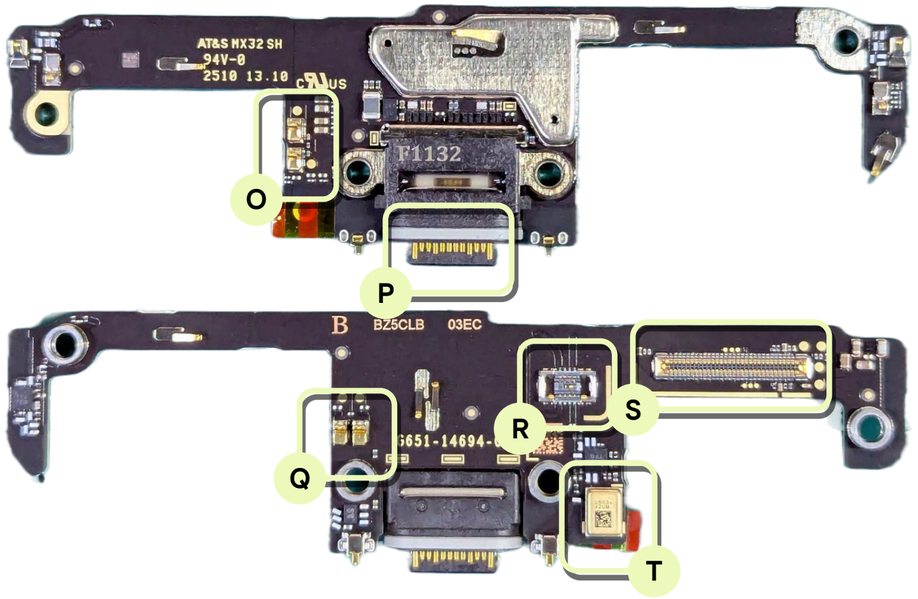
Location and description	
A	Front camera connector
B	mmWave module connector
C	SPAM connector
D	BG connector
E	UWB spring
F	CJ flex connector
G	DJ flex connector
H	Battery connector
I	RJ flex connector
J	Rear camera UW connector
K	Rear camera main connector
L	Sidekey spring
M	Tele camera connector
N	P-sensor or light sensor

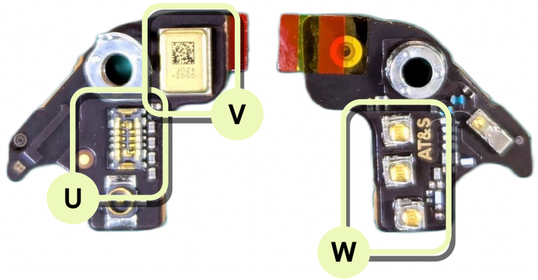




Connectors and feature location (continued)

Location and description	
O	Vibrator spring
P	USB port
Q	Bottom speaker spring
R	CJ flex connector
S	RJ flex connector
T	Mic1
U	SPAM connector
V	Mic3
W	Top speaker spring





Connectors and feature location (continued)

Location and description	
X	DJ flex connector
Y	UWB
Z	BG connector
a	Mic2
b	Rainbow
c	BTS



Power

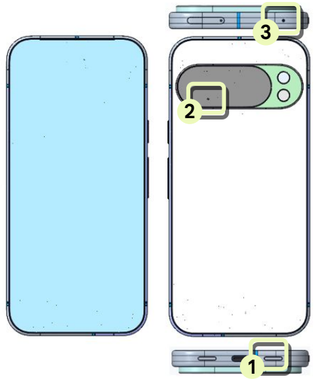
Symptom	Potential root cause	Procedure	
 **T001:** *doesn't* power on **T002:** powers off suddenly **T004:** wired charging failure **T053:** battery damage **T054:** battery draining fast **T055:** device overheats	Damage	• Inspect the **USB-C connector** for debris preventing charging. • Inspect device for damage. • Inspect **Liquid Damage Indicators (LDIs)**.	
	Display	• Remove the **display module** and seat a new one. Charge for 10 minutes to see if the device could power on.	**Disassembly** • Display
	Connectivity issue	• Remove the **battery cowling**, check if the connectivity between the **battery connector** and the **logic board** are normal. If they aren't fully buckled, reassemble and then retest.	**Connectors location**
	Component issue	• Use a good **battery** and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • Battery • Logic board

Wireless charge

Symptom	Potential root cause	Procedure	
 **T003:** wireless charging failure	Connectivity issue	• Check if the connectivity between **BG sub** and the **logic board** is normal. • If they aren't fully buckled, reassemble and then retest.	**Connectors location**
	Component issue	• Use a good **BG sub** and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • BG sub • Logic board

Mic1

Symptom	Potential root cause	Procedure
T010: mic1 no sound **T011:** mic1 low sound **T012:** mic1 distorted sound	Mesh not clean	• Use a microscope and check the **mesh** for damage or blockage. • Clean the **mesh** and test audio.
	Assembly problem	• Disassemble the device, check if the **mic1 bracket** is fully seated. • Check if the **chin board mic1 liner** and the **enclosure mic1 mesh liner** is removed. If it's removed, go to the next step. • Test audio again.
	Component issue	• Use a good **chin board** and **enclosure** to cross check with original ones. • Replace the defective component.



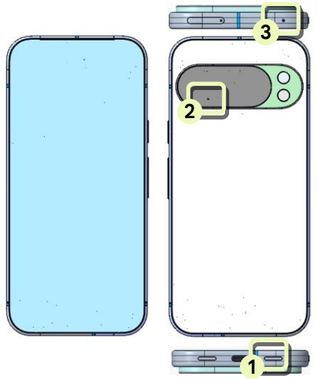
1. Mic1
2. Mic2
3. Mic3

Disassembly

- Chin board
- Enclosure

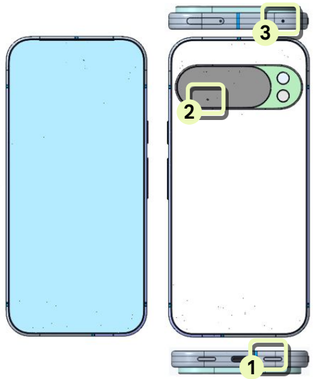
Mic2

Symptom	Potential root cause	Procedure	
T013: mic2 no sound **T014:** mic2 low sound **T015:** mic2 distorted sound	Connectivity issue	• Check if the connectivity between the **BG sub** and the **logic board** is normal. • If they aren't fully buckled, reassemble and then retest.	**Connectors location**
	Component issue	• Use a good **BG sub** and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • BG sub • Logic board



1. Mic1
2. Mic2
3. Mic3

Mic3

Symptom	Potential root cause	Procedure	
T016: mic3 no sound **T017:** mic3 low sound **T018:** mic3 distorted sound  1 Mic1 2 Mic2 3 Mic3	Connectivity issue	• Check if the connectivity between the **ANT4 board**, **SPAM flex**, and **logic board** are normal. • If they aren't fully buckled, reassemble and then retest.	**Connectors location**
	Assembly problem	• Check if the **enclosure mic3 mesh liner** and the **ANT4 board mic3 liner** are removed. If they aren't removed, go to the next step. • Test audio again.	
	Component issue	• Inspect whether the mic3 component is damaged. • Use a good **SPAM flex**, **ANT4 board**, and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • SPAM flex • ANT4 board • Logic board

Top speaker

Symptom	Potential root cause	Procedure	
	Damage	• Inspect whether the **ANT4 board spring** and **top speaker pad** is broken or squeezed.	
	Internal debris	• Disassemble the device and inspect the **top speaker**.	
T019: top speaker no sound **T020:** top speaker low sound **T021:** top speaker distorted sound	Connectivity issue	• Check the contact condition between the **SPAM flex**, **top speaker pin contact pad**, and **ANT4 board**. 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	• If sound quality is still poor, use a good **SPAM flex**, **top speaker**, and **ANT4 board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • SPAM flex • Top speaker • ANT4 board

Bottom speaker

Symptom	Potential root cause	Procedure	
 **T023:** bottom speaker no sound **T024:** bottom speaker low sound **T025:** bottom speaker distorted sound	Mesh problem	• Visually inspect the exterior of the phone to check for a polluted **mesh** on the **bottom speaker port**. Use a soft **ESD brush** to remove any debris. • Test audio.	
	Internal debris	• If sound quality is still poor, inspect the **mesh** and the **bottom speaker** with a **microscope**. • Disassemble the device and inspect the **bottom speaker**.	
	Connectivity issue	• 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	• If sound quality is still poor, use a good **bottom speaker** and **chin board** to cross-check with original ones • Replace the defective component.	**Disassembly** • Bottom speaker • Chin board

Vibrator

Symptom	Potential root cause	Procedure	
 **T026:** vibrator failure	Connectivity issue	• Check the contact condition between the **vibrator pad** 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. • Test **vibrator** again. • Check the function by triage test.	**Connectors location**
	Component issue	• Use a good **vibrator** and **chin board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • Vibrator • Chin board

Display

Symptom	Potential root cause	Procedure	
 **T027:** display blank **T028:** display dead pixel, dark spots or foreign material **T029:** display bright pixel, bright or colored spots **T030:** display vertical or horizontal lines **T031:** display black, white or colored screen **T032:** display flickering or abnormal **T033:** display image quality **T034:** display color mura **T035:** display light leakage **T036:** display backlight issue **T037:** display shadow **T038:** display permanent burn-in **T039:** display temporary burn-in	Damage	• Inspect the **display** for damage and replace if necessary.	
	Connectivity issue	• Check if the connectivity between the **display connector**, **DJ flex**, and **logic board** is normal. • If they aren't fully buckled, reassemble and then retest.	**Connectors location**
	Dead pixels Distorted graphics Flickering Color issues	• 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**.	**Disassembly** • Display

Display (continued)

Symptom	Potential root cause	Procedure	
 **T040:** display single crack **T041:** display multiple cracks **T043:** display cosmetic defects **T044:** multi-touch poor response **T045:** multi-touch no response **T046:** multi-touch erratic response	Touch screen fingerprint sensor	• 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**.	**Disassembly** • Display
	Component issue	• Use a good **display** and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • Display • Logic board

NFC

Symptom	Potential root cause	Procedure	
 **T051:** NFC connectivity Issues	Connectivity issue	• Check if the connectivity between **BG sub** and the **logic board** is normal. • If they aren't fully buckled, reassemble and then retest.	**Connectors location**
	Component issue	• Use a good **BG sub** and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • BG sub • Logic board

Proximity Sensor

Symptom	Potential root cause	Procedure	
 **T059:** proximity sensor failure	Assembly issue	Check if the **p-sensor foam** is posted flat or not.	**Assembly** • P-sensor foam
	Component issue	• Disassemble and check the appearance of the **p-sensor foam** without abnormality. • Use a good **p-sensor foam** and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • Logic board

UDFPS

Symptom	Potential root cause	Procedure	
 **T064:** fingerprint sensor failure	Interference Issue	Remove any screen protector before tests related to display function.	
	Damage	• 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	• Check if the connectivity between the **display connector**, **DJ flex**, and **logic board** is normal. • If they aren't fully buckled, reassemble and then retest.	**Connectors location**
	Component issue	• Use a good **display** and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • Display • Logic board

Rear camera

Symptom	Potential root cause	Procedure	
T072: camera AR failure **T073:** camera rear photo quality **T074:** camera rear video quality **T077:** camera flash not working **T078:** can't switch between cameras **T079:** camera damage **T111:** main RCAM crashes **T112:** UW RCAM crashes **T114:** main RCAM no preview **T115:** UW RCAM no preview **T116:** UW RCAM photo quality **T117:** UW RCAM video quality **T196:** tele RCAM crashes **T197:** tele RCAM no preview **T198:** tele RCAM photo quality **T199:** tele RCAM video quality	Damage	• 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	• 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	• Use a good **rear camera** and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • Rear camera • Logic board

Main UW Tele



Front camera

Symptom	Potential root cause	Procedure	
 **T075:** camera front photo quality **T076:** camera front video quality **T078:** can’t switch between cameras **T079:** camera damage **T110:** FCAM crashes **T113:** FCAM no preview	Damage	Inspect the **display** and the **front camera** for damage.	
	Connectivity issue	• 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**
	Component issue	• Use a good **front camera** and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • Front camera • Logic board

USB-C

Symptom	Potential root cause	Procedure	
 **T083:** USB-C port corrosion **T084:** USB-C port damage **T085:** USB-C failure	Damage	• Inspect the **USB-C connector** for debris preventing charging. • Inspect the device for damage. • Inspect the **Liquid Damage Indicators (LDIs)**.	
	Connectivity issue	• Check if the connectivity between the **CJ flex connector** and the **chin board** is normal. If they aren't fully buckled, reassemble and then retest. • Check if the connectivity between the **CJ flex connector** and the **logic board** is normal. If they aren't fully buckled, reassemble and then retest.	**Connectors location**
	Component issue	• Use a good **CJ flex** and **chin board** to cross-check with original ones. • Replace the defective component. • Use a good **CJ flex** and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • CJ flex • Chin board • Logic board

mmWave module

Symptom	Potential root cause	Procedure	
	Damage	• Inspect the **mmWave module** for damage.	
T105: 5G_low_med_band_failure **T106:** 5G_high_band_failure	Connectivity issue	• 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	• Connect a new **mmWave module** to test. • If the issue is resolved, proceed with the **mmWave module** replacement and assemble device. • If the **mmWave module** issue remains, replace the **logic board**.	**Disassembly** • mmWave module • Logic board

Pixel 10 Pro repair manual

Software

Software tools

Description	Documentation
Update or reinstall the software on Pixel devices	Google Pixel - Update and Software Repair