Pixel 11 Pro XL

Repair manual

Version:1.1, July 2026

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 of prerequisite steps, tools, fixtures, and parts required to complete the repair, in the order of device disassembly.

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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Repair flows

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- Assembly order

Disassembly

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

Assembly

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

Troubleshooting

- Sensor and key feature location
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- Bottom speaker
- Vibrator
- Display
- NFC
- Proximity sensor
- UDFPS
- Rear camera
- Front camera
- USB-C
- mmWave module

Software

- Software tools

Revision history

Version	Date	Change description
V1.0	June, 2026	First release
V1.1	July, 2026	1. Add SOC foam (G806-16683-02). P11, P27, P111, P115 2. Revise wording. P114 3. Add note for rework process. P115, P119, P125, P129, P142, P179, P197



Pixel 11 Pro XL 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 11 Pro XL contains a class 1 laser module.

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

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

.

Important: Before you begin

Caution:
Part handling – glass

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

Tools and fixtures

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

Caution:

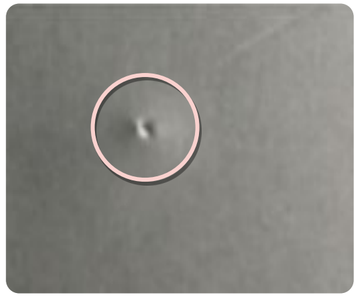
- We *don't* recommend that you perform repairs without the specified tools and fixtures.
- Improper use of tools and fixtures may result in injury to yourself, the user of the device or others, as well as damage to the product, tools, fixtures, replacement parts, or other spare parts.

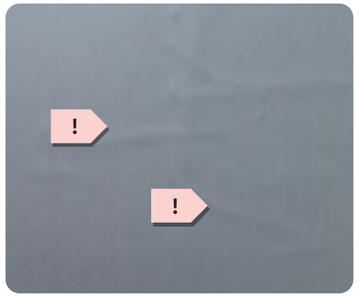
Important: Before you disassemble the device

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

Use caution ⚠

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

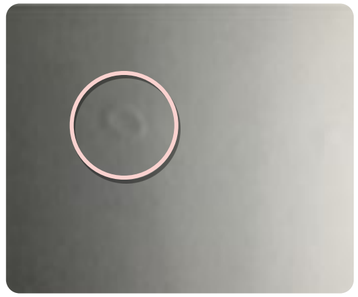

Pouch damage

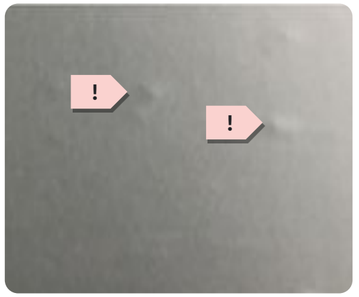


Line protrusion

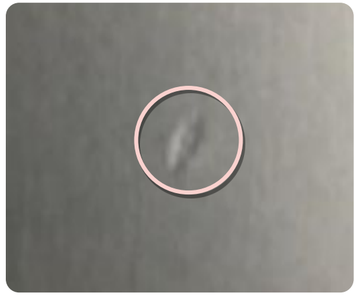


Scratch


Contamination mark

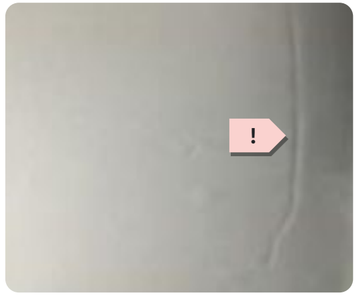


Dot protrusion

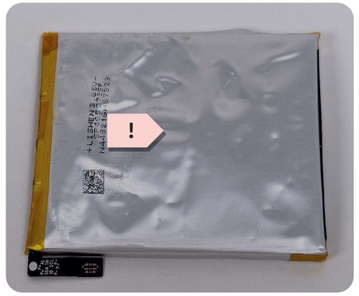

Dent



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 11 Pro XL repair manual

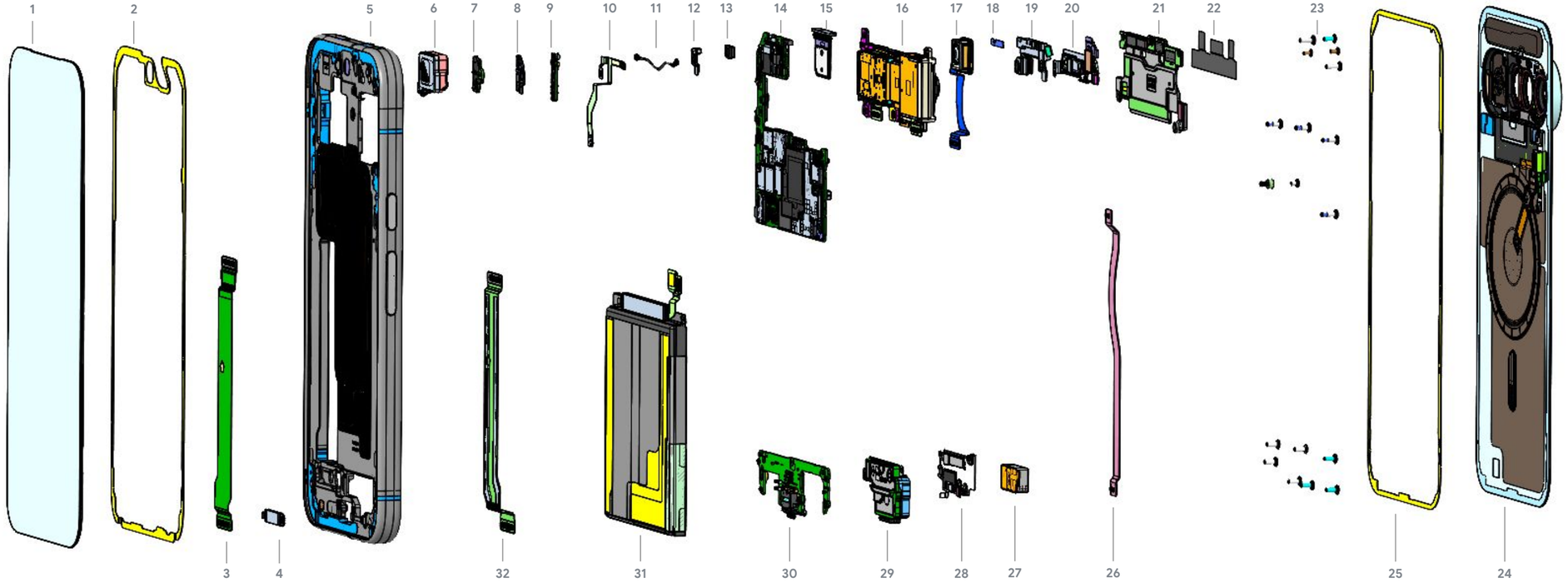
Introduction

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

Pixel 11 Pro XL: Expanded view

Reuse indications

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



Pixel 11 Pro XL part ID

1	Display module	**8**	ANT4 cowling	**15**	SIM tray_sub6	**22**	Heatsink tape	**29**	Bottom speaker
2	Display adhesive	**9**	NFC board	**16**	Rear camera	**23**	Screw	**30**	Chin board
3	DJ flex	**10**	TJ flex	**17**	Front camera	**24**	BG sub	**31**	Battery
4	Display cowling	**11**	Coaxial cable	**18**	TIM pad_mmWave	**25**	BG adhesive	**32**	CJ flex
5	Enclosure	**12**	Bracket_sub6	**19**	mmWave module	**26**	RJ flex		
6	Top speaker	**13**	P-sensor foam	**20**	FCAM cowling	**27**	Vibrator		
7	ANT4 board	**14**	Logic board	**21**	MLB cowling	**28**	CLB cowling		

Screw map

Here's the list of screws used in the Pixel 11 Pro XL:

Screw	Screw	Screw	Screw	Screw
G250-07839-04	G250-08385-01	G250-08386-12	G250-08386-23	G250-08387-22
				

Screw	Screw	Screw	Screw
G250-08436-03	G250-08437-01	G250-08482-01	G250-08582-01
			

- 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:
(1.0 or 1.2 or 1.5 or 1.8/2.0) ± 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 isn't 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.

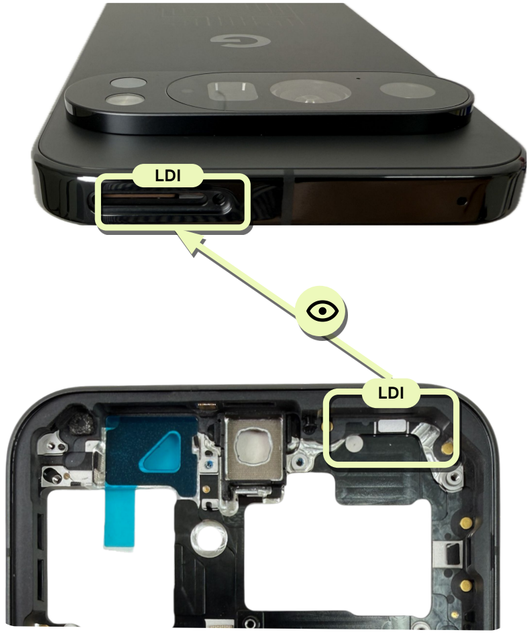
Did you know?

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.

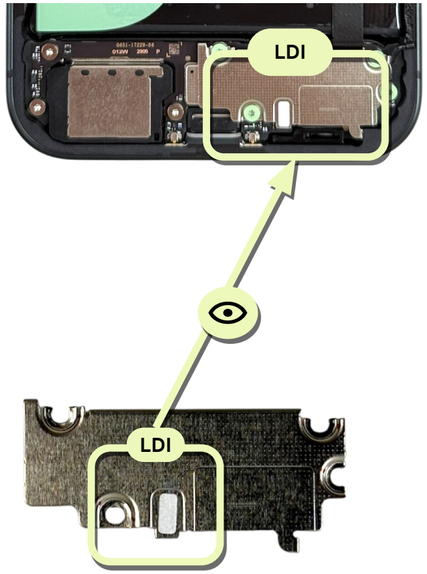
Liquid damage indicators

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

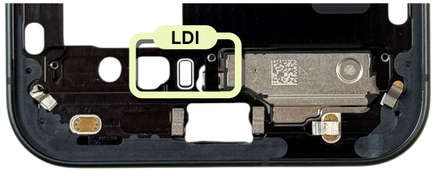
- Exposure to liquids could lead to the device malfunction, such as overheating or short circuits.
- There are three LDIs on this device.
- If either indicator has turned red, the device is considered to be exposed to liquid.



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 11 Pro XL

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

Universal press fixture
G940-00733-00



Universal disassembly fixture V3 - base (optional)
G940-00873-00



Spare universal device clip #1 (optional)
G940-00876-00



Universal press plate 12 mm
G940-00736-00



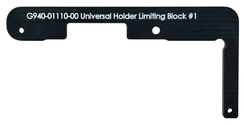
Universal holder
G940-00834-00



Universal base 12 mm
G940-00833-01



Universal holder limiting block
G940-01110-00



Universal supporting rubber
G940-00804-00



Pixel 11 Pro XL battery press rubber
G940-01170-00



Pixel 11 Pro XL BG press rubber
G940-01171-00



Pixel 11 Pro XL CG press rubber
G940-01172-00



Pixel 11 Pro XL thermal grease alignment fixture
G940-01174-00



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



Screwdriver

1/4 inch, tip size 2.5 mm



SIM card ejection pin



Heat plate



Absorption-bulb



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

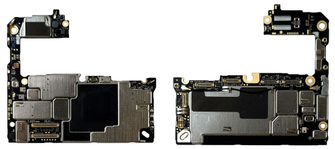
Use of replacement parts other than Google-authorized replacement parts, such as aftermarket batteries, might impact device safety, reliability, and performance.

Replacement parts

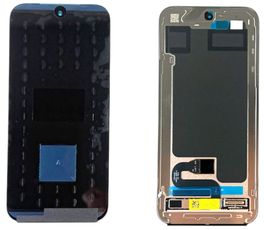
Reuse indications

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

Logic board
Multiple part numbers



Display module
G949-01777-00



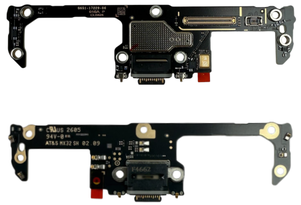
BG sub
Multiple part numbers



Enclosure
Multiple part numbers



Chin board
G949-01799-00



ANT4 board
G949-01800-00



NFC board
G949-01801-00



Front camera
G949-01802-00



Rear camera
G949-01803-00



CJ flex
G949-01804-00



DJ flex
G949-01805-00



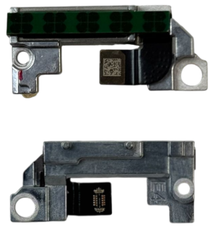
TJ flex
G949-01806-00



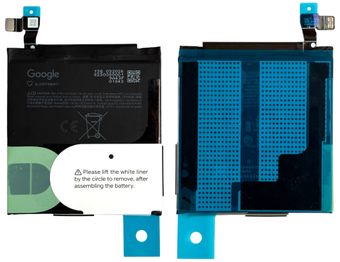
Replacement parts

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

mmWave module
G949-01807-00



Battery
Multiple part numbers



CG adhesive
G806-16631-93



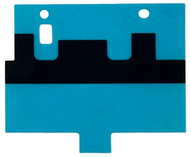
BG adhesive
G806-18416-01



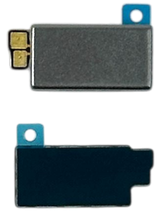
P-sensor foam
G806-13064-01



Heatsink tape
G806-18103-00



Vibrator
G710-09574-00



Bottom speaker
G863-00724-01



Top speaker
G863-00728-01



RJ flex
G652-10648-02



Coaxial cable
G949-01810-00



SIM tray_sub6
Multiple part numbers



Replacement parts

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

TIM pad_mmWave
G864-01188-02



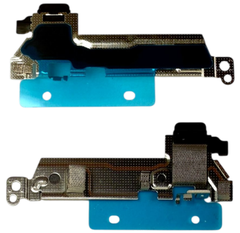
Bracket_sub6
G850-00866-01



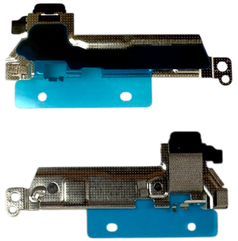
Display cowling
G730-10544-01



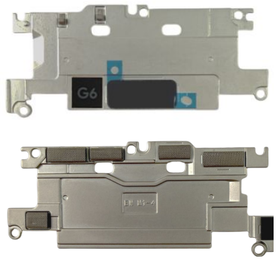
FCAM cowling_mmWave
G730-10538-01



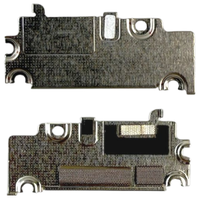
FCAM cowling_sub6
G730-10538-11



MLB cowling
G730-10539-02



CLB cowling
G730-10537-01



ANT4 cowling
G730-10536-01



Screw
G250-07839-04



Screw
G250-08385-01



Screw
G250-08386-12



Screw
G250-08386-23



Replacement parts

Reuse indications

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

***Material expires**

Screw
G250-08387-22



Screw
G250-08436-03



Screw
G250-08437-01



Screw
G250-08482-01



Screw
G250-08582-01



Thermal grease
G160-01481-00



FoF_ANT4
G806-16636-01



FoF_NFC
G806-16637-01



Bottom speaker PSA
G806-19437-00



Top speaker PSA
G806-16635-11



FCAM CPSA
G806-16651-04



Battery flex PSA
G806-17021-01



Replacement parts

Reuse indications

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

TJ flex CPSA
G806-19438-00



DJ shear PSA
G806-16654-91



Vibrator PSA
G806-19439-00



Mic 3 mesh
G806-16650-01



SOC foam
G806-16683-02

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, battery and enclosure, or other parts. Also known as: PSA
UDFPS	Under Display FingerPrint Sensor Also known as: Fingerprint 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
NFC	Near Field Communication
ANT	Antenna
FOF	Fabric-Over-Foam
CPSA	Conductive Pressure Sensitive Adhesive

Glossary

Acronym or term	Definition
SOC	System on Chip
AR	Augmented Reality
CJ	Connection Jumper
DJ	Display Jumper
TJ	Transmission Jumper

Glossary

Acronym or term	Definition
CLB	Chin Logic Board
SKU	Stock Keeping Unit
TIM	Thermal Interface Material
COF	Chip on Film
SPAM	Speaker and Microphone
RJ	Radio Frequency (RF) Jumper

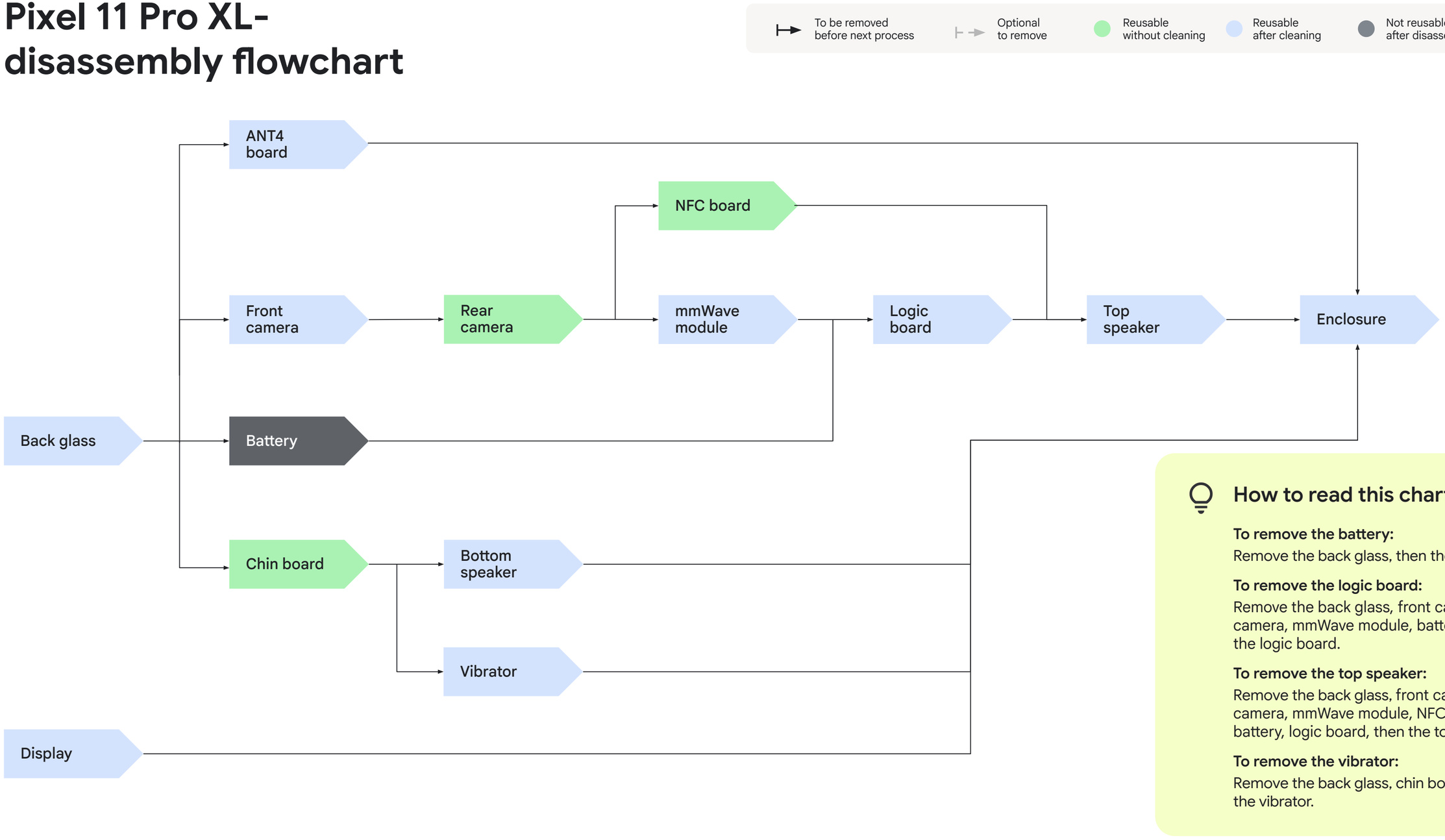
Pixel 11 Pro XL repair manual

Repair flows

Disassembly order

Assembly order

Pixel 11 Pro XL- disassembly flowchart



How to read this chart

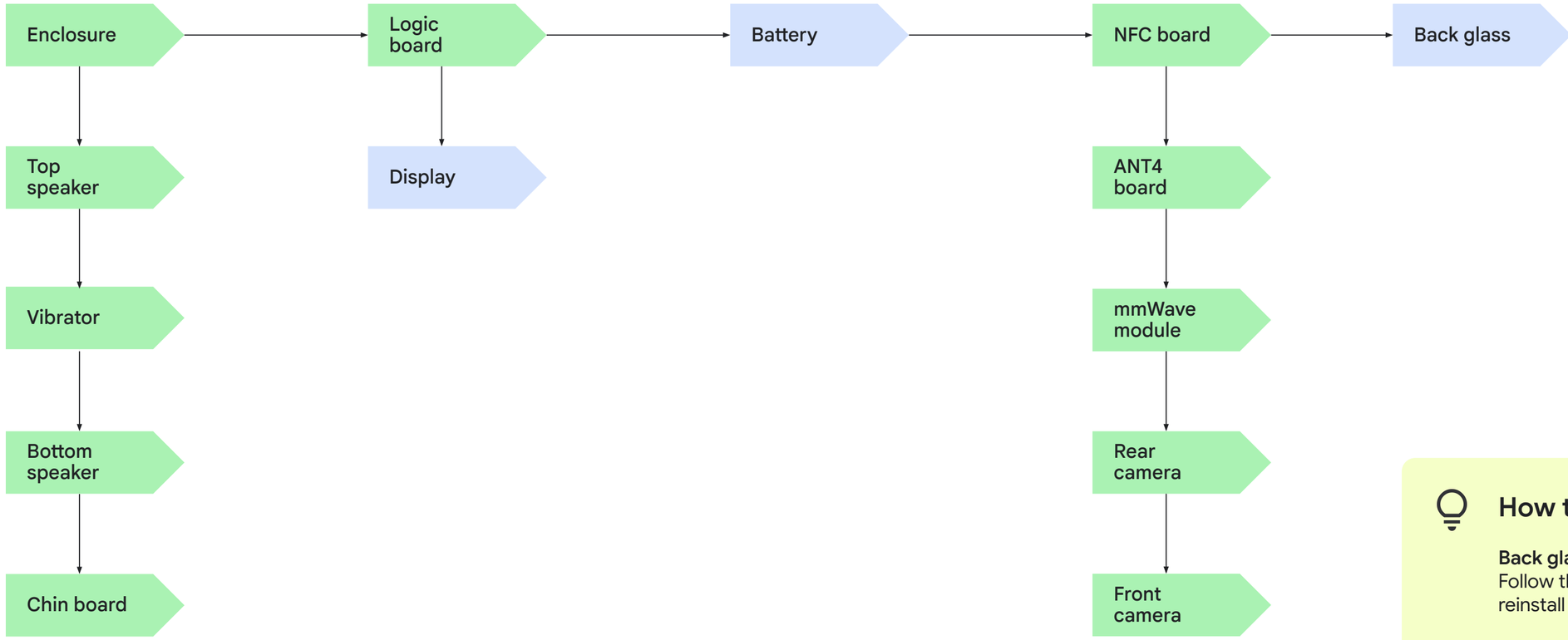
To remove the battery:
Remove the back glass, then the battery.

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

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

To remove the vibrator:
Remove the back glass, chin board then the vibrator.

Pixel 11 Pro XL- 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 11 Pro XL repair manual

Disassembly

BG sub

Front camera

Rear camera

mmWave module

ANT4 board

NFC board

Battery

Logic board

Display

Chin board

Bottom speaker

Vibrator

Top speaker

Enclosure

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 11 Pro XL CG press rubber
- Pixel 11 Pro XL BG press rubber
- Absorption bulb
- Large 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

G806-18416-01



Screw

G250-08387-22



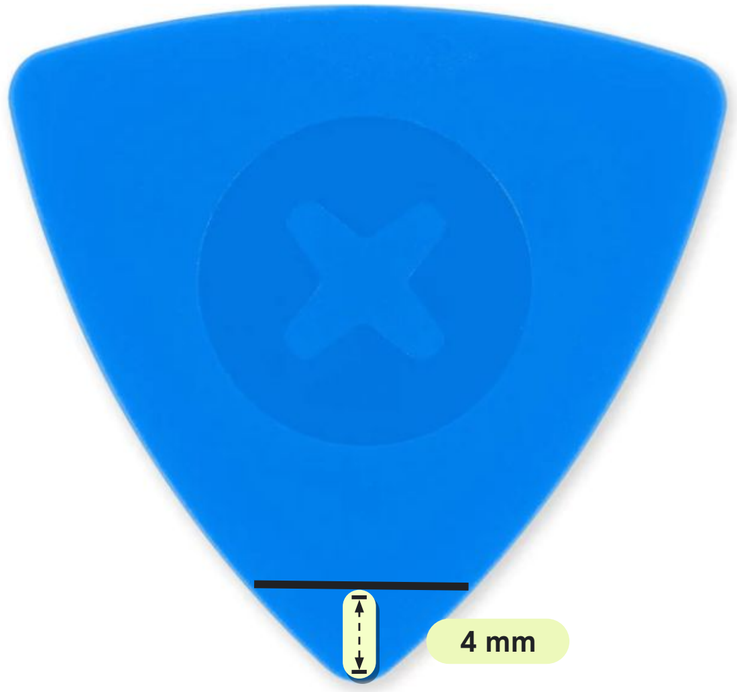
Mark the opening pick

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 large suction cup

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

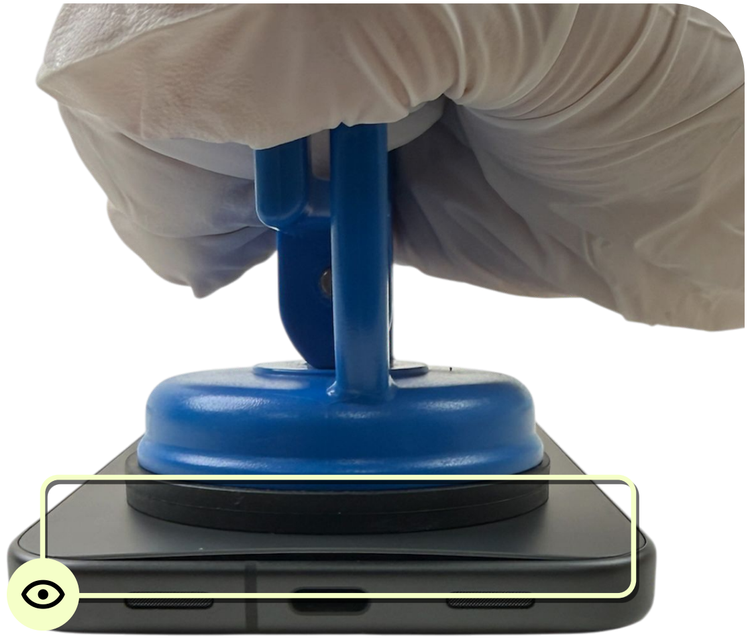


Separate the BG

- Hold the device with one hand and firmly pull up the **large 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 **140°F (60°C)** for **10 minutes** and try again.





Separate the BG adhesive

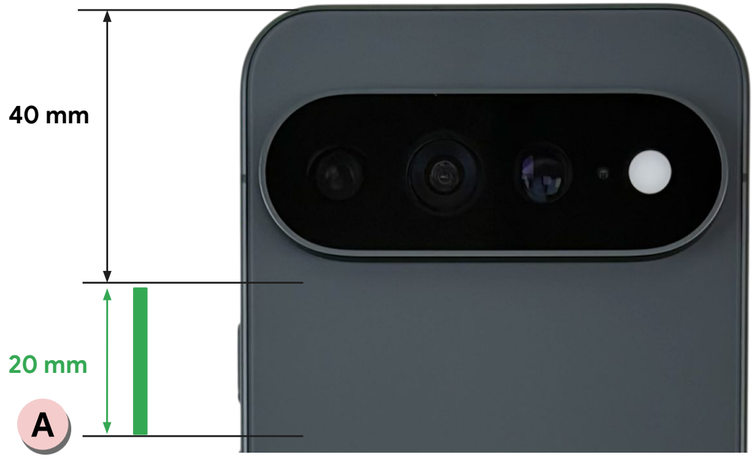
Slide the **pick** clockwise through the edges.

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 screws

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

Part: G250-08387-22*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.

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

Part: multiple part numbers (BG sub)

Note

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



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

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

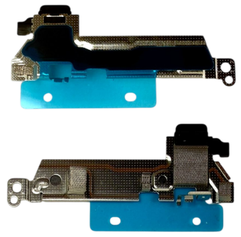
Here's the list of parts for the front camera disassembly:

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

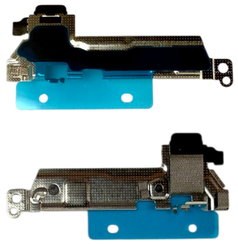
MLB cowling
G730-10539-02



FCAM cowling_mmWave
G730-10538-01



FCAM cowling_sub6
G730-10538-11



Front camera
G949-01802-00



Screw
G250-08386-23



Screw
G250-08436-03



Screw
G250-08386-12



Battery flex PSA
G806-17021-01



FCAM CPSA
G806-16651-04



Remove the screws

Remove **two BG cowling screws** with a **torx plus 3IP screwdriver**.

Part: G250-08386-23*2 (screw)

Part: G250-08436-03 (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

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

Don't reuse the **screw**.



A: G250-08386-23

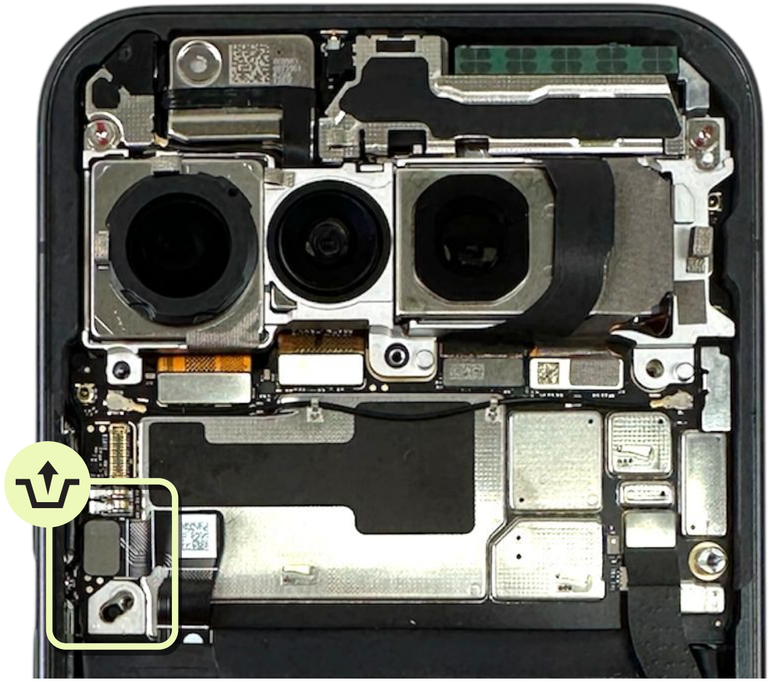
B: G250-08436-03

Disconnect the battery

- Remove the **MLB cowling** with **ESD tweezers**.
- Detach the **battery connector** with an **ESD spudger**.
- Slowly peel off the **battery flex PSA** with your hand.

Part: G806-17021-01 (battery flex PSA)

Part: G730-10539-02 (MLB cowling)



Note

Use the ESD spudger to avoid damage to the components.

Remove the screws

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

Part: G250-08386-12 (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**.

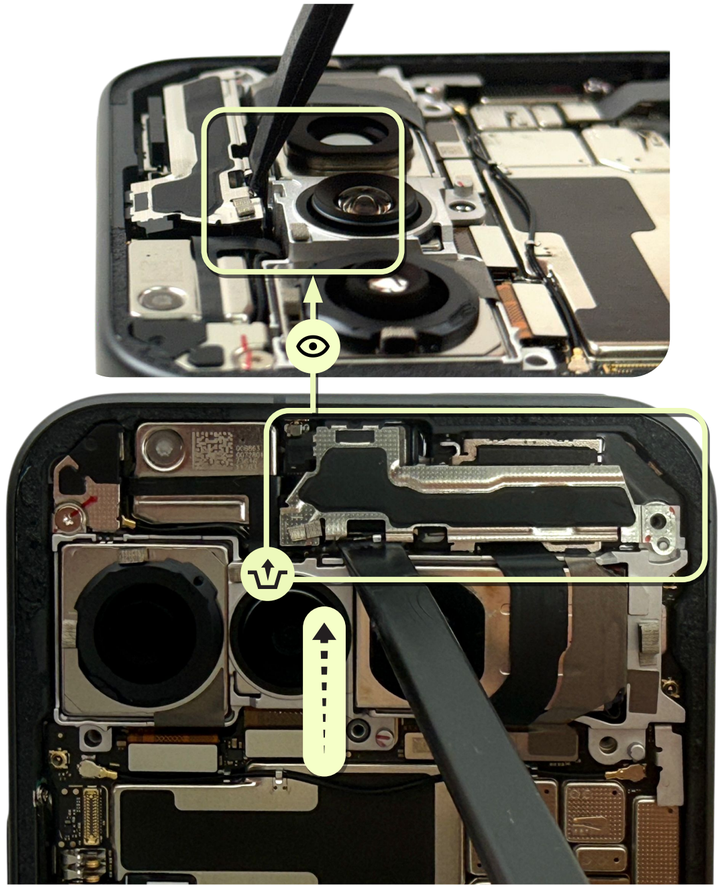


Remove the FCAM cowling

- Hold an **ESD spudger** against the **hook**.
- Push the **FCAM cowling** upward to remove the **FCAM cowling**.

Part: G730-10538-01 (FCAM cowling-mmWave)

Part: G730-10538-11 (FCAM cowling-sub6)



Note

Be careful not to damage or touch the RCAM lens.

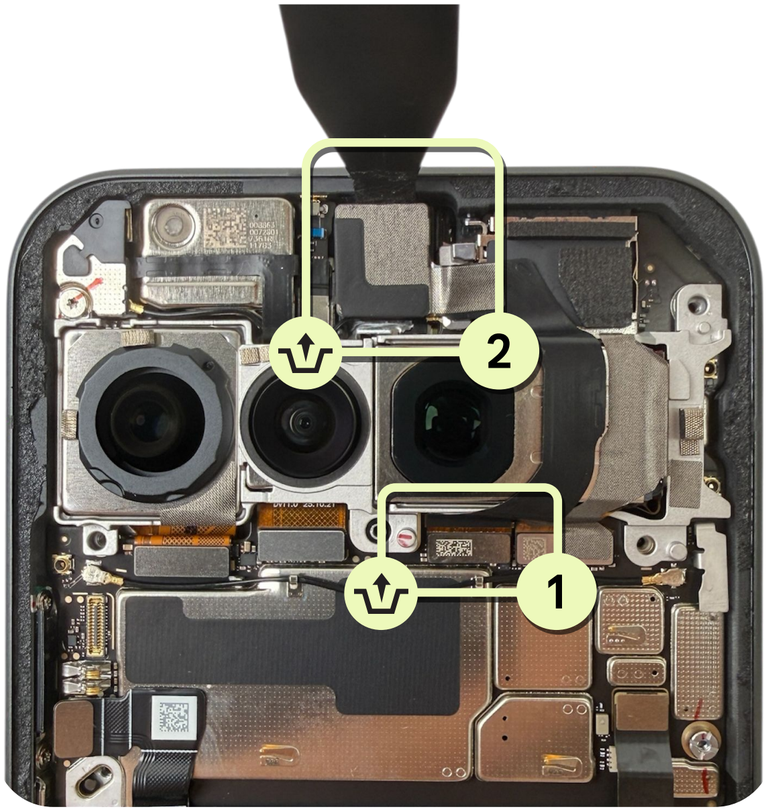
***Don't* reuse the part.**

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: G949-01802-00 (front camera)



⚠ Use caution

Be cautious not to touch the **FCAM** and **RCAM lens**.

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

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**

Tools

Torx plus 3IP screwdriver

ESD spudger

ESD tweezers

Required parts

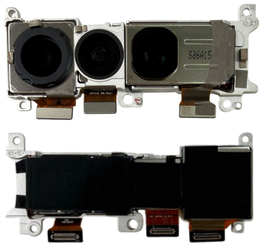
Rear camera

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

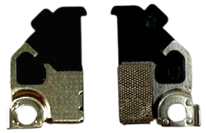
Reuse indications

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

Rear camera
G949-01803-00



ANT4 cowling
G730-10536-01



Screw
G250-08386-12



Remove the ANT4 cowling

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

Part: G250-08386-12 (screw)

Part: G730-10536-01 (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 the battery or the product.

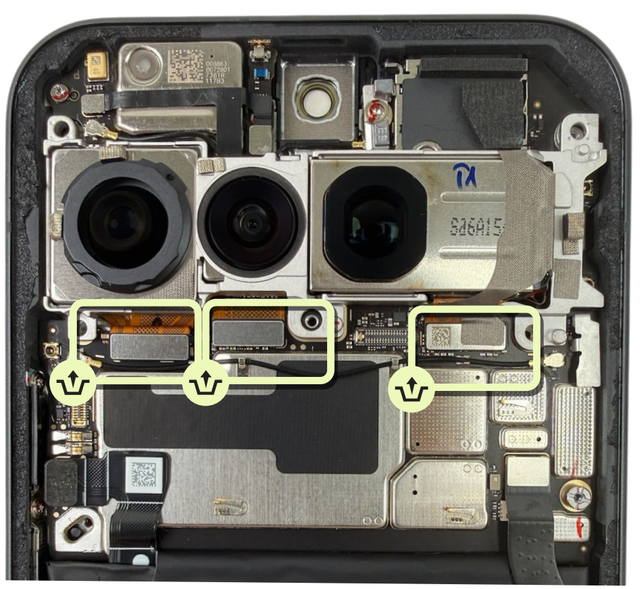
Note

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

Finished! Want assembly instructions? ➜

Remove the rear camera

- Detach the **three rear camera connectors** from the **logic board** with an **ESD spudger** as shown.
- Remove the **rear camera** with **ESD tweezers**.





Part: G949-01803-00 (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.

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**
- **Rear camera**

Tools

Torx plus 3IP screwdriver

ESD spudger

ESD tweezers

IPA and cloth

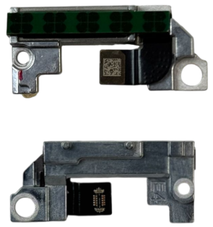
Required parts

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
G949-01807-00



Bracket_sub6
G850-00866-01



TIM pad_mmWave
G864-01188-02

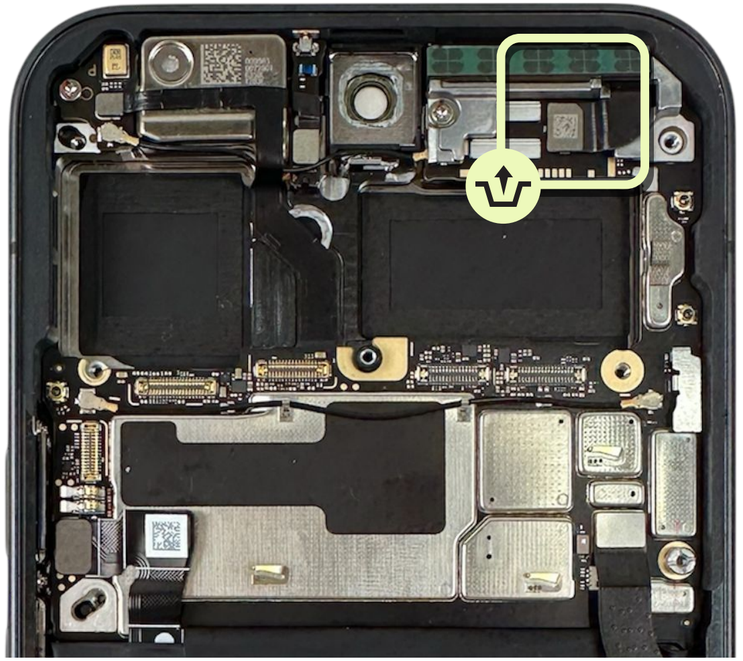


Screw
G250-07839-04



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: G949-01807-00 (mmWave module)

Part: G850-00866-01 (bracket_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 spudger

ESD tweezers

IPA and cloth

Required parts

ANT4 board

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

Reuse indications

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

ANT4 board
G949-01800-00



Coaxial cable
G949-01810-00



Mic 3 mesh
G806-16650-01



Screw
G250-08385-01

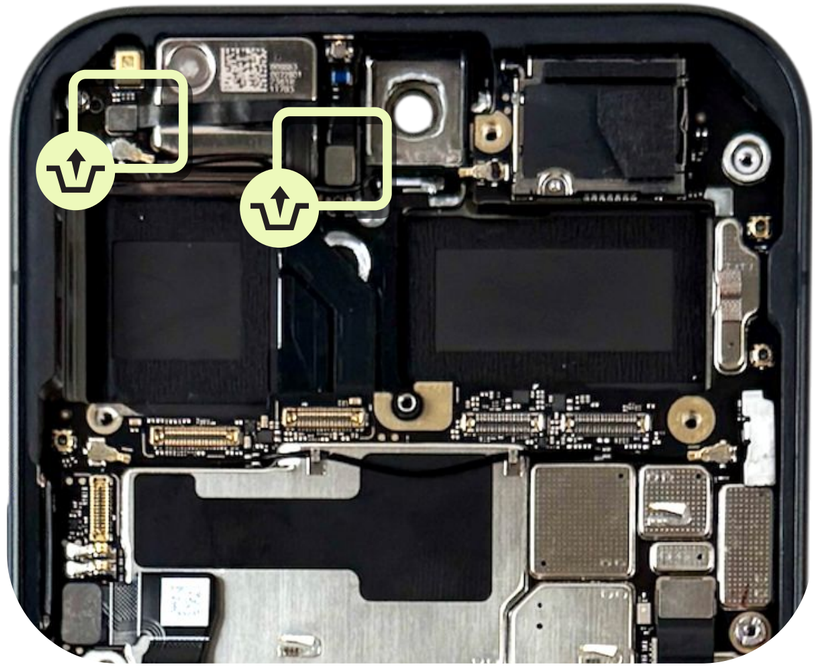


Disconnect the TJ flex

- Detach the **TJ flex connector** from the **ANT4 board** and **NFC board** with an **ESD spudger**.

Note

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



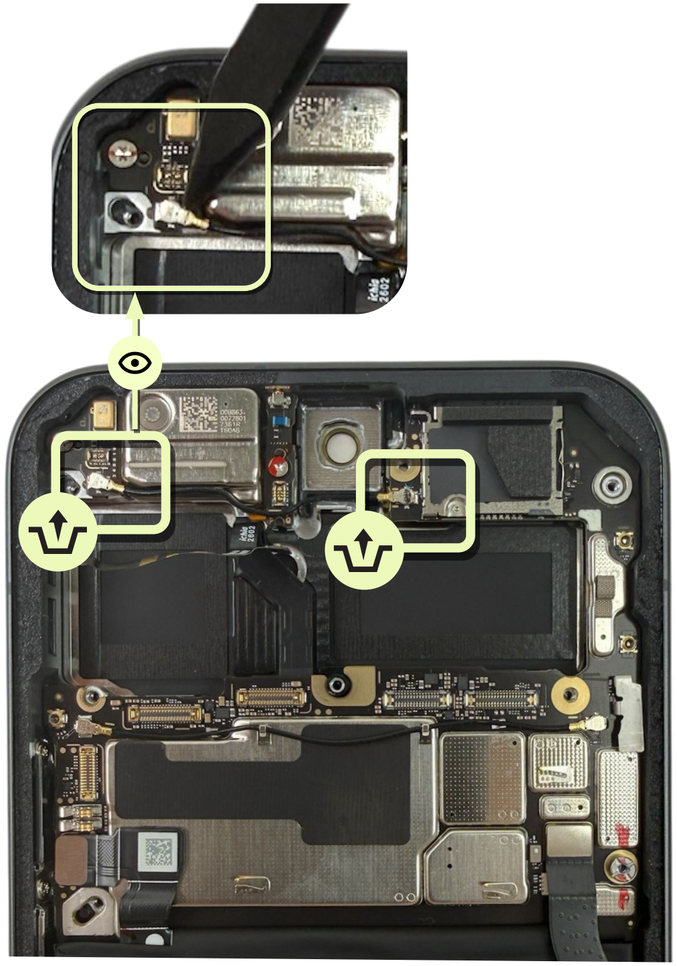
Remove the coaxial cable

- Unbuckle the **coaxial cable** from the **ANT4 board** and **logic board** with **ESD tweezers**.
- Remove the **coaxial cable**.

Part: G949-01810-00 (coaxial cable)

Note

Don't reuse the **part**.



Remove the screw

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

Part: G250-08385-01 (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

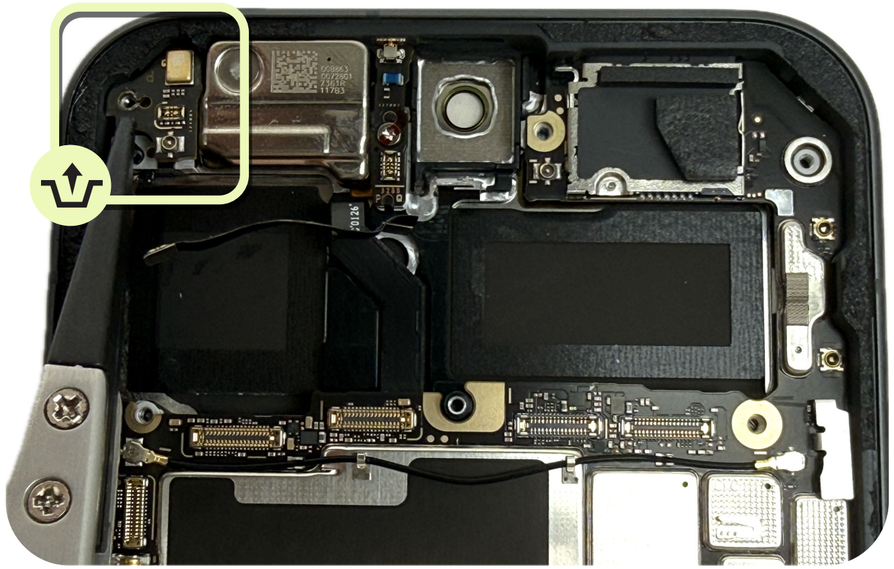
***Don't* reuse the screw.**

Finished! Want assembly instructions? ➜

Remove the ANT4 board

- Remove the **ANT4 board** with **ESD tweezers** from the left side.

Part: G949-01800-00 (ANT4 board)



Note

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

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

Disassembly instructions

NFC 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**
- **Front camera**
- **Rear camera**
- **ANT4 board**

Tools

Torx plus 3IP screwdriver

ESD spudger

ESD tweezers

Required parts

NFC board

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

Reuse indications

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

NFC board

G949-01801-00



Screw

G250-08385-01



Finished! Want assembly instructions? ➜

Remove the screw

- Remove the **NFC board screw** with a **torx plus 3IP screwdriver**.
- Remove the **NFC board** with **ESD tweezers** from the bottom side.

Part: G250-08385-01 (screw)

Part: G949-01801-00 (NFC board)



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

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 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 11 Pro XL battery press rubber
- Absorption bulb
- 3M AP111 primer
- Dust-free cotton swabs
- Finger cots
- IPA and cloth

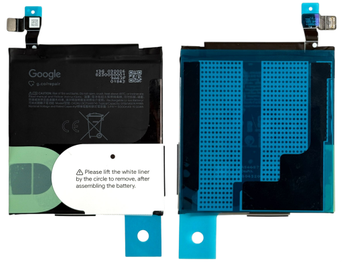
Required parts

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

Battery

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

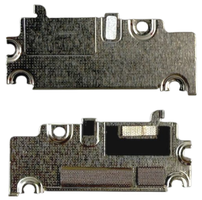
Battery
Multiple part numbers



RJ flex
G652-10648-02



CLB cowling
G730-10537-01

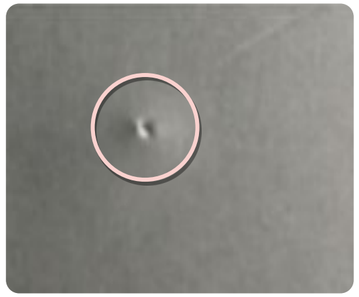


Screw
G250-08482-01

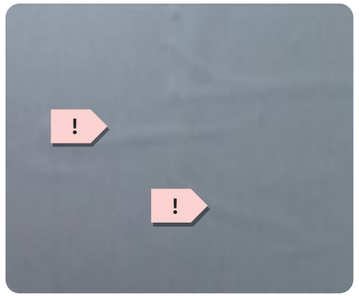


Use caution ⚠

Examples of unacceptable battery conditions - Not suitable for repair



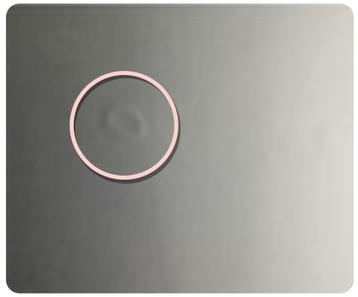
Pouch damage



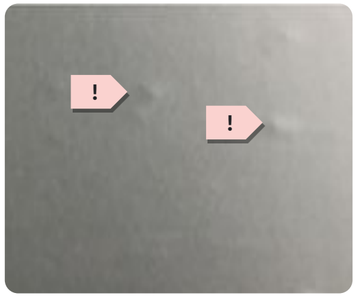
Line protrusion



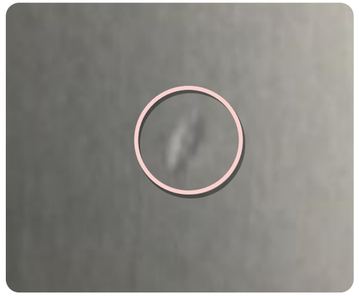
Scratch



Contamination mark



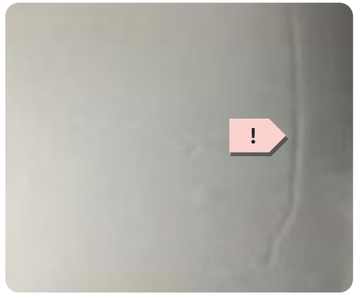
Dot protrusion



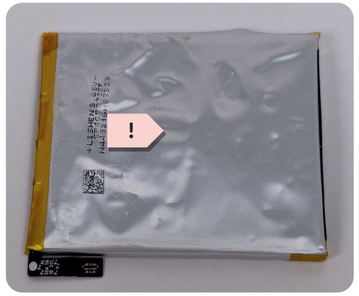
Dent



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 CLB cowling

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

Part: G250-08482-01*4 (screw)

Part: G730-10537-01 (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.**

Remove the RJ flex

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

Part: G652-10648-02 (RJ flex)

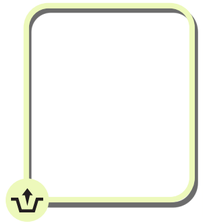
Note

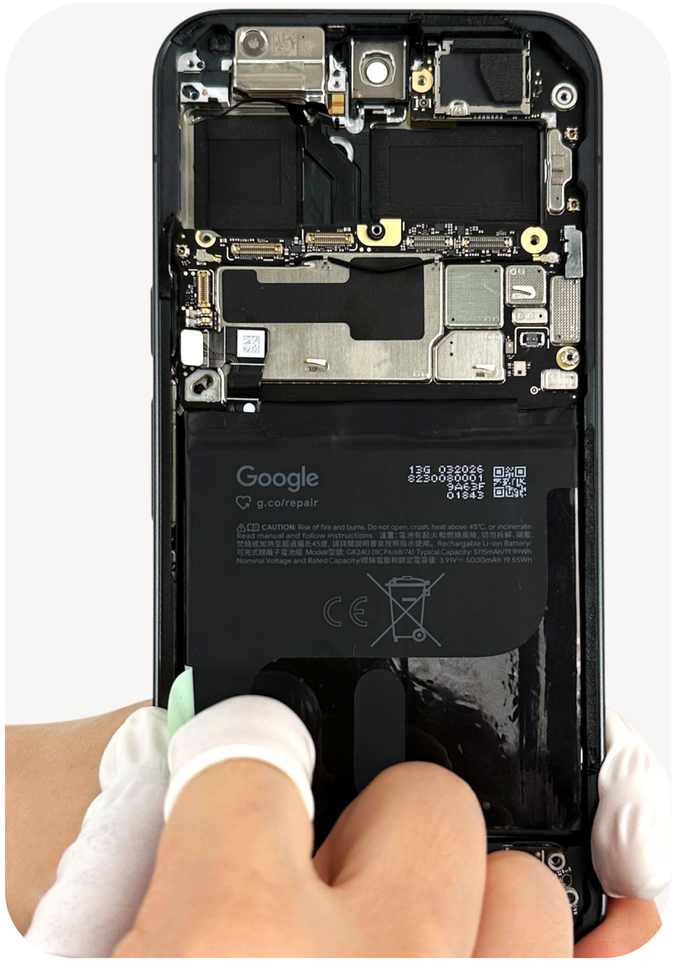
Use an **ESD spudger** to avoid damage to the components.



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.





Use caution

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

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

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 **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

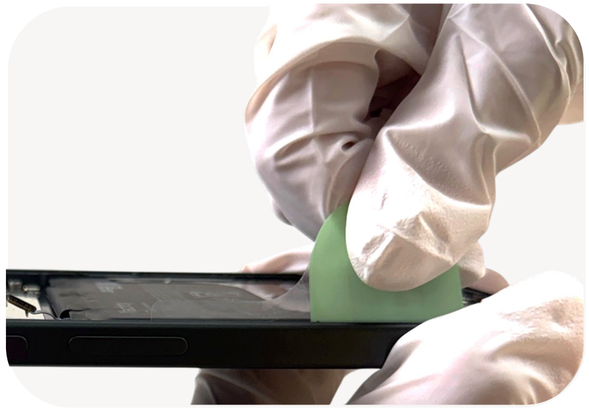


Fig 2

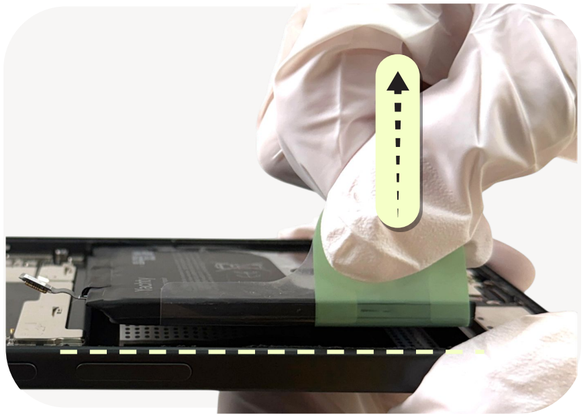


Fig 3

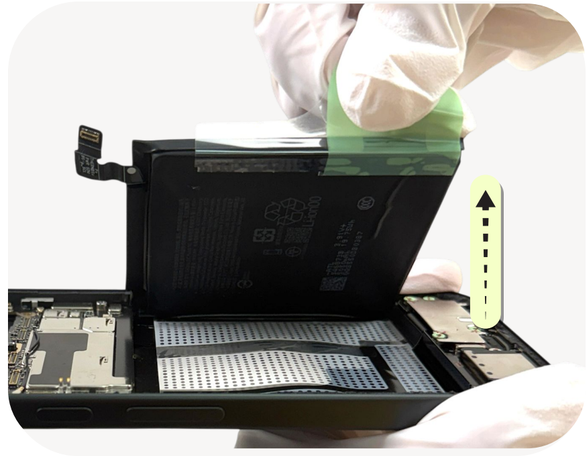
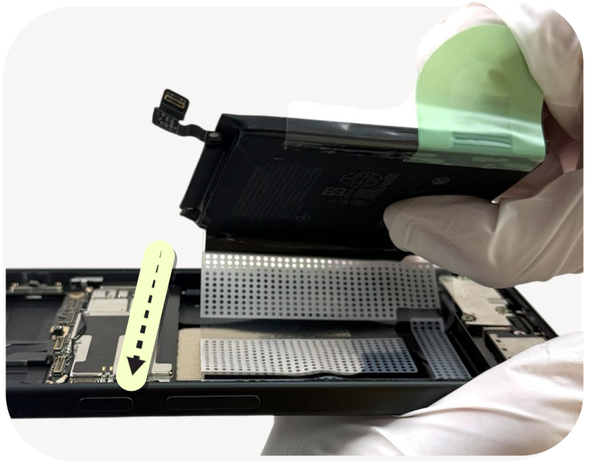


Fig 4



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**
- **Rear camera**
- **mmWave**
- **Battery**

Tools

Pixel 11 Pro XL thermal grease alignment fixture

Torx plus 3IP screwdriver

ESD spudger

ESD tweezers

SIM card ejection pin

IPA and cloth

Dust-free cotton swabs

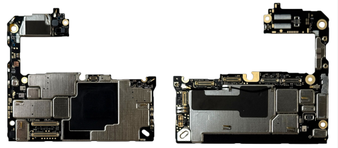
Required parts

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



CJ flex
G949-01804-00



DJ flex
G949-01805-00



TJ flex
G949-01806-00



P-sensor foam
G806-13064-01



SIM tray_sub6
Multiple part numbers



Screw
G250-08437-01



*Material expires

Thermal grease
G160-01481-00



TJ flex PSA
G806-19438-00



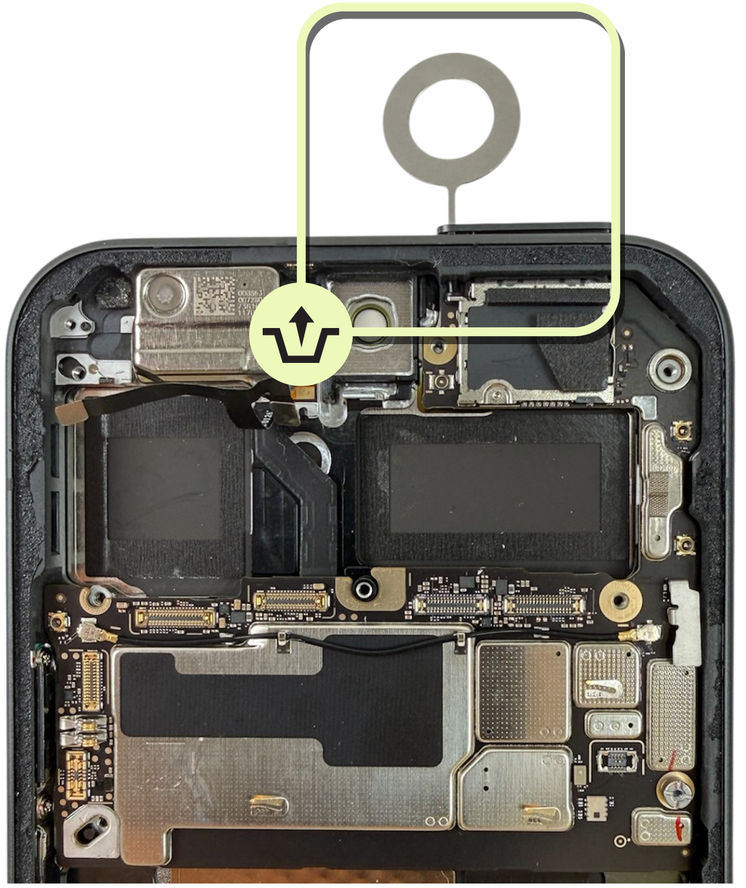
Remove the SIM tray

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**.



Remove the screw

Remove the **logic board screw** with a **cross screwdriver**.

Part: G250-08437-01 (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.**

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

Lift the logic board up

Pry up the **logic board** with **ESD tweezers** from the lower left corner.

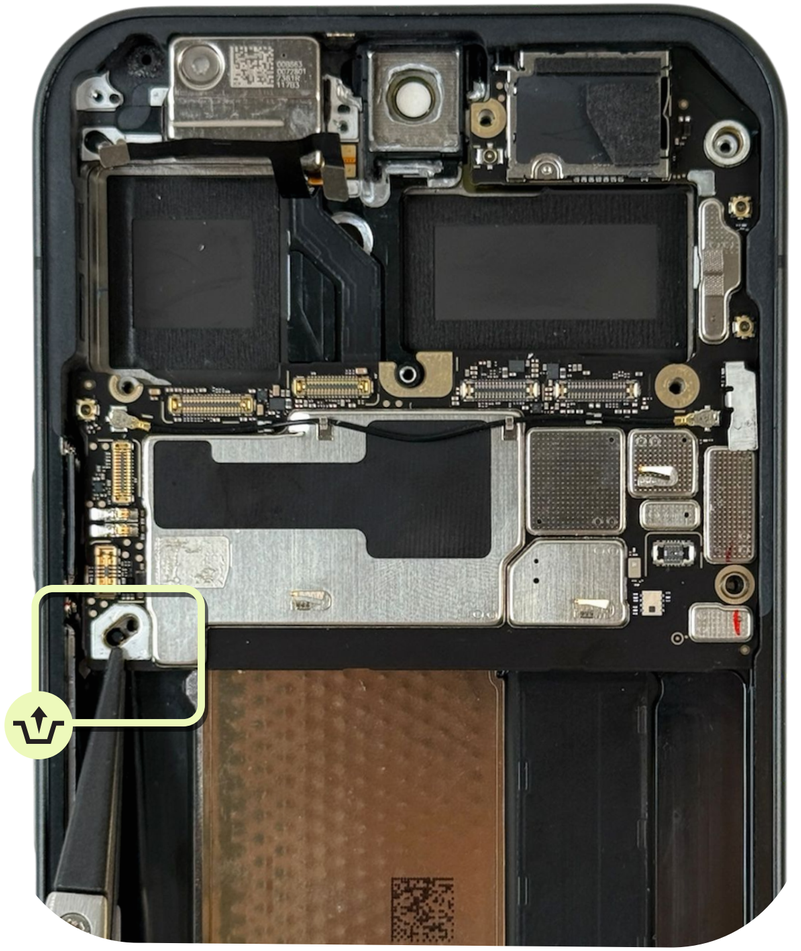
Use caution

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 and TJ flex

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

Part: multiple part numbers (logic board)

Part: G949-01804-00 (CJ flex)

Part: G949-01806-00 (TJ 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.

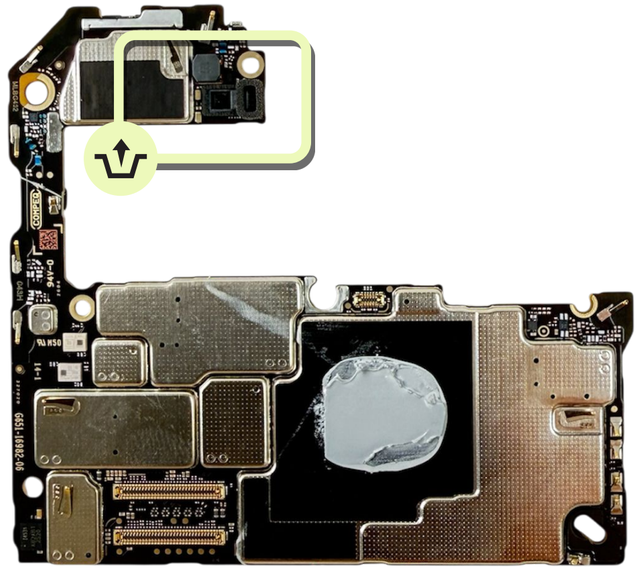


Finished! Want assembly instructions? →

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

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 11 Pro XL BG press rubber
- Pixel 11 Pro XL CG press rubber
- Absorption-bulb
- ESD tweezers
- ESD spudger
- 3M AP111 primer
- Dust-free cotton swabs
- IPA and cloth

Required parts

Display

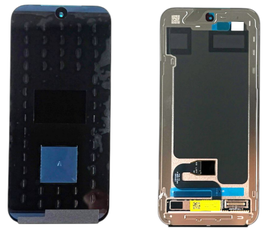
Here's the list of parts for the display disassembly:

Reuse indications

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

Display module

G949-01777-00



CG adhesive

G806-16631-93



Display cowling

G730-10544-01



DJ shear PSA

G806-16654-91



Soften the adhesive

Set the **heat plate** to **149°F (65°C)** and place the **phone back** on it for **5 minutes** to soften the adhesive.



Use caution

The **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.

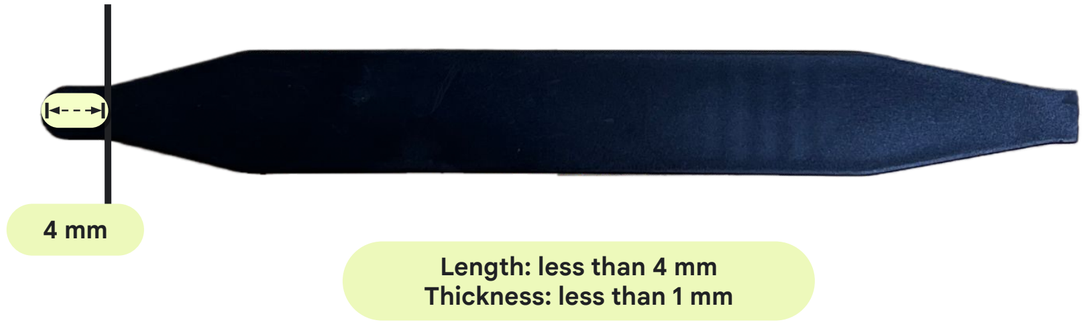
Review all **safety precautions** before you begin work.

Note

Don't heat the visor area when the back cover still exist. Only remove the **display**.

Mark the ESD spudger

- Use an **ESD spudger** to carefully separate the **display** from the **enclosure**.
- Measure **4 mm** from the tip and mark an **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.

Disassembly fixture V3 is optional for display replacement.

Fig 1



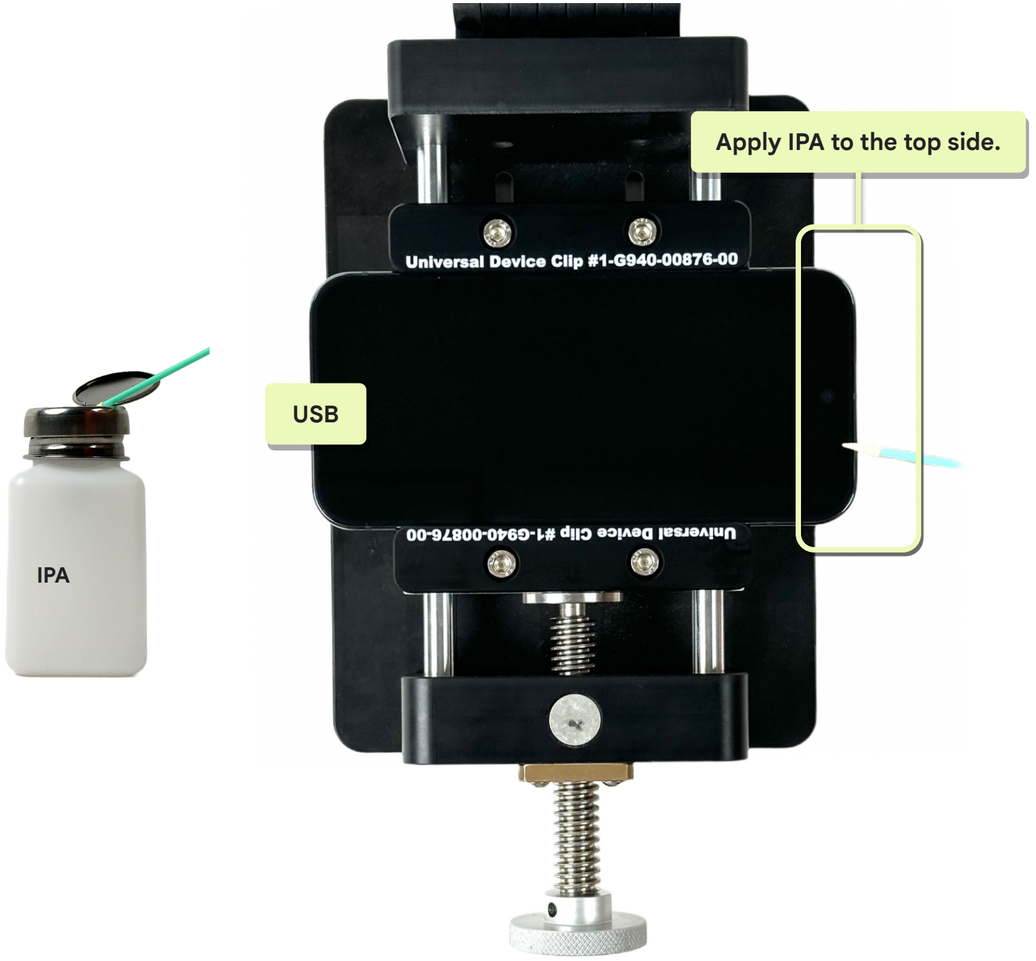


Fig 2



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**.
- When 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

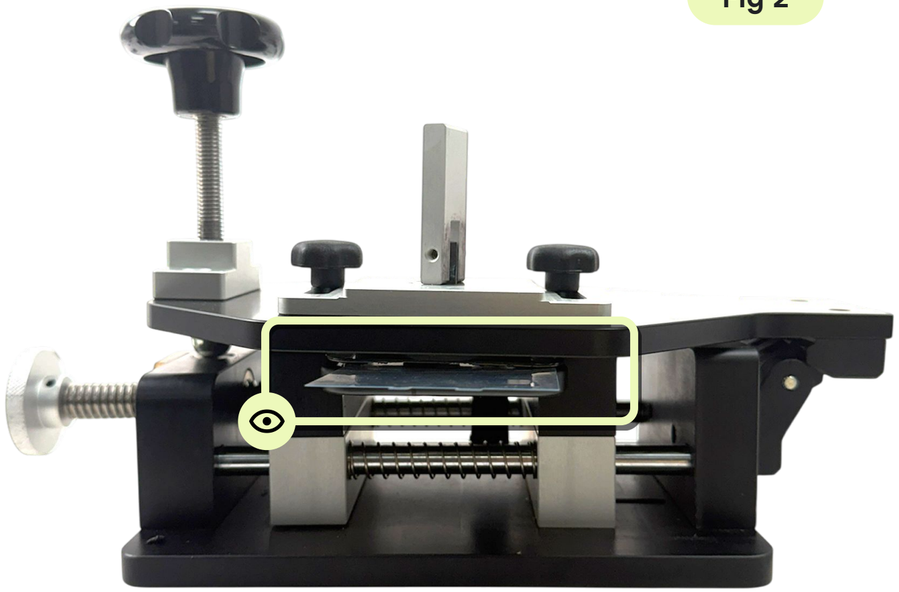


Fig 2

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, 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



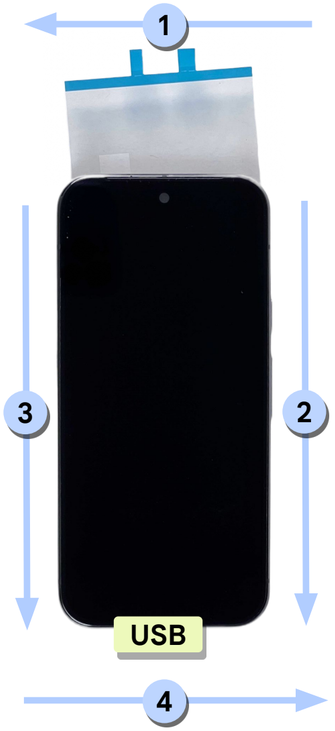
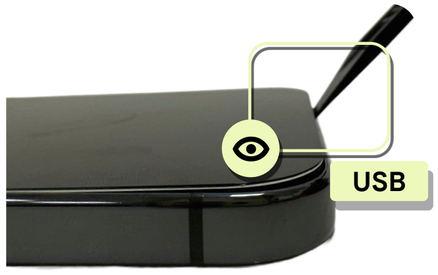


Fig 2



Fig 3



Remove the cowling

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

Part: G730-10544-01 (display cowling)

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**.

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 **DJ flex** and **display module**.

Part: G949-01805-00 (DJ flex)

Part: G949-01777-00 (display module)

Part: G806-16654-91 (DJ shear PSA)

Note

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



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**

Tools

ESD spudger

ESD tweezers

Required parts

Chin board

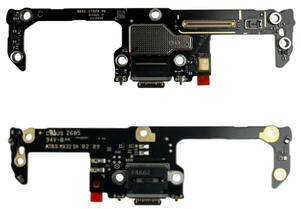
Here's the list of parts for the chin board disassembly:

Reuse indications

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

Chin board

G949-01799-00



Screw

G250-08582-01



Remove the screw

Remove three **chin board screws** with a **torx plus 3IP screwdriver**.

Part: G250-08582-01*3 (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.**

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

Finished! Want assembly instructions? →

Remove the chin board

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

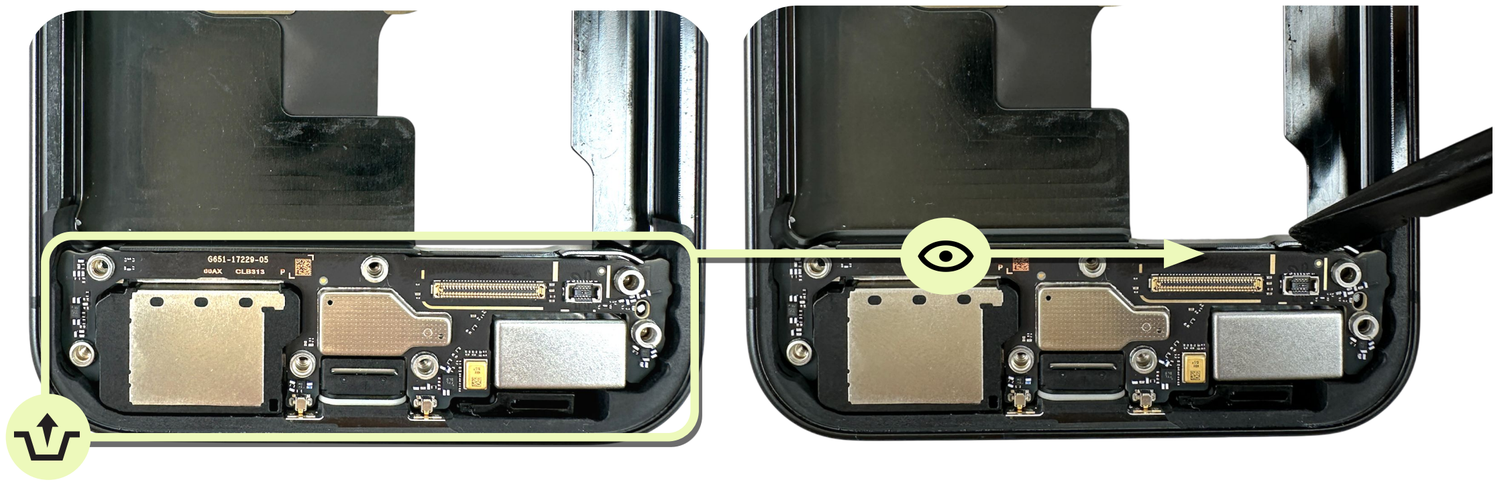
Part: G949-01799-00 (chin board)

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

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**
- **Chin board**

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
G863-00724-01



Bottom speaker PSA
G806-19437-00



Remove the bottom speaker

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

Part: G863-00724-01 (bottom speaker)



Finished! Want assembly instructions? ➜

Remove the bottom speaker

Lift the **bottom speaker** with an **ESD spudger**.

Part: G863-00724-01 (bottom speaker)



Use caution

Perform this step only when the **bottom speaker** is damaged.

Note

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

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**
- **Chin board**

Tools

ESD tweezers

ESD spudger

IPA and cloth

Required parts

Vibrator

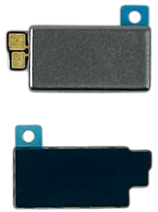
Here's the list of parts for the vibrator disassembly:

Reuse indications

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

Vibrator

G710-09574-00



Vibrator PSA

G806-19439-00



Finished! Want assembly instructions? →

Remove the vibrator

Remove the **vibrator** from the lower right corner with an **ESD spudger**.

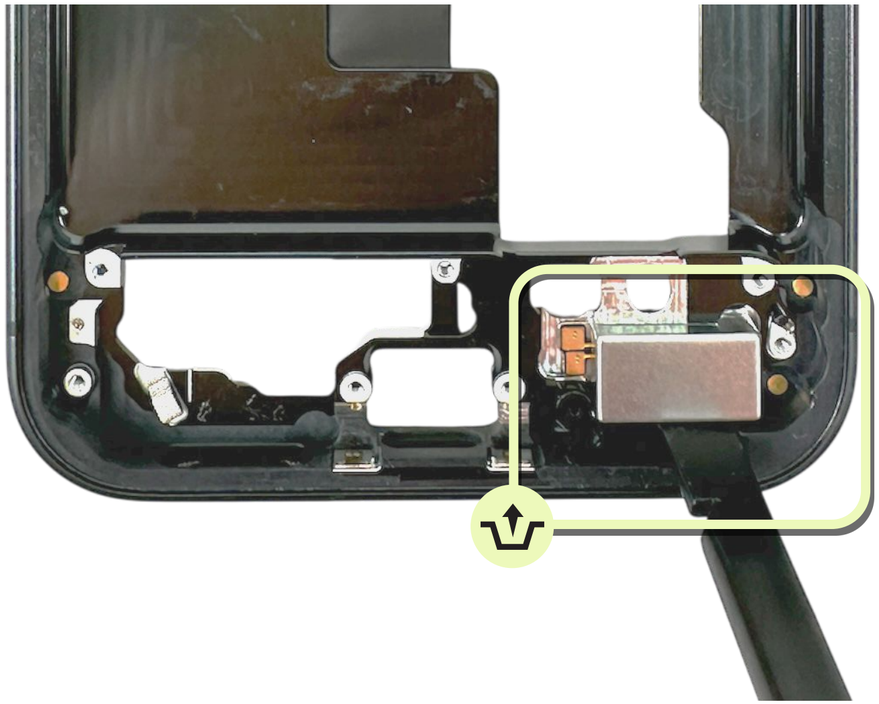
Part: G710-09574-00 (vibrator)

Use caution

Be careful to avoid damage or pry up the **mic 1 bracket**.

Note

If removal is difficult, apply heat at 60°C for 1 minute.



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**
- **Rear camera**
- **mmWave module**
- **NFC board**
- **Battery**
- **Logic board**

Tools

ESD spudger

ESD tweezers

IPA and cloth

Required parts

Top speaker

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

Reuse indications

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

Top speaker
G863-00728-01



FoF_ANT4
G806-16636-01



FoF_NFC
G806-16637-01



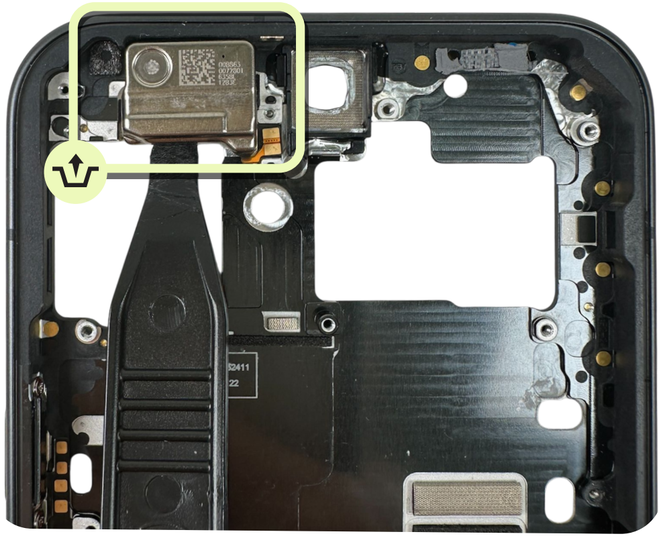
Top speaker PSA
G806-16635-11

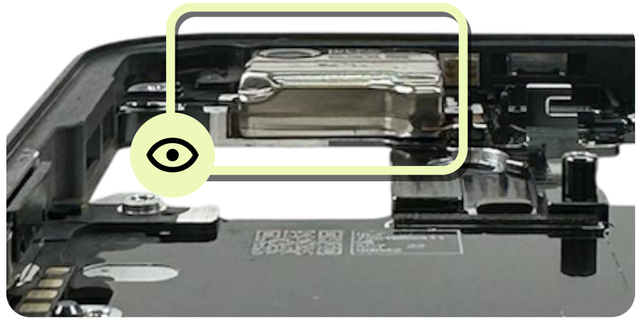


Remove the top speaker

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

Part: G863-00728-01 (top speaker)





Finished! Want assembly instructions? →

Remove the FoF_ANT4 and NFC

Remove the **FoF_ANT4 and NFC** with **ESD tweezers**.

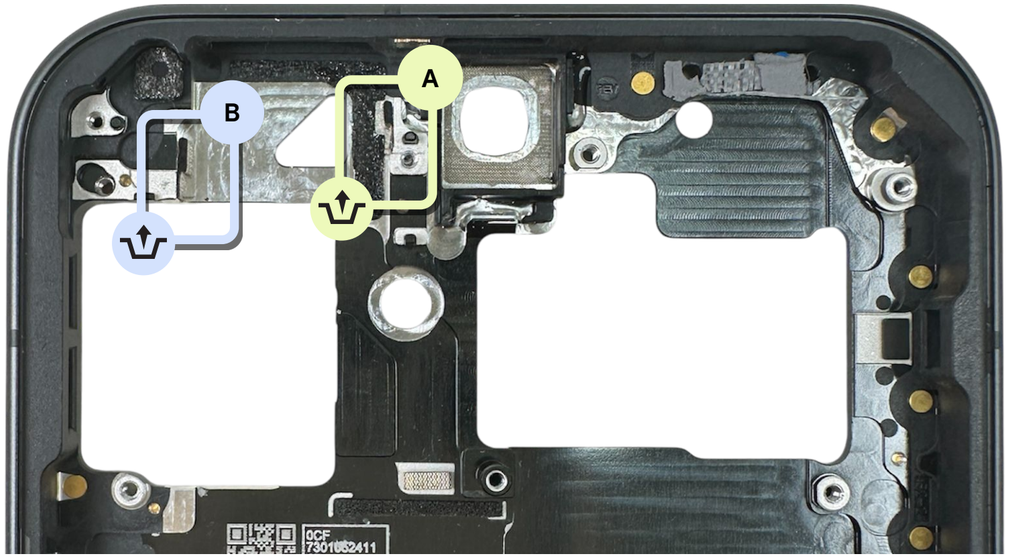
Part: G806-16636-01 (FoF_ANT4)

Part: G806-16637-01 (FoF_NFC)

Note

Don't reuse the part.

This step replaces the deformed FoF_ANT4 and NFC.



A: G806-16637-01

B: G806-16636-01

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:

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

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



SOC foam

G806-16683-02

Pixel 11 Pro XL repair manual

Assembly

Enclosure
Top speaker
Vibrator
Bottom speaker
Chin board
Logic board
Display
Battery
NFC board
ANT4 board
mmWave module
Rear camera
Front camera
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**, **SOC 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 protective film is removed when you use the **new enclosure**.

Attach the SOC foam

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

Part: G806-16683-02 (SOC foam)



Note

This step is only present in the rework process.

The new **enclosure** already has **SOC foam** on it.

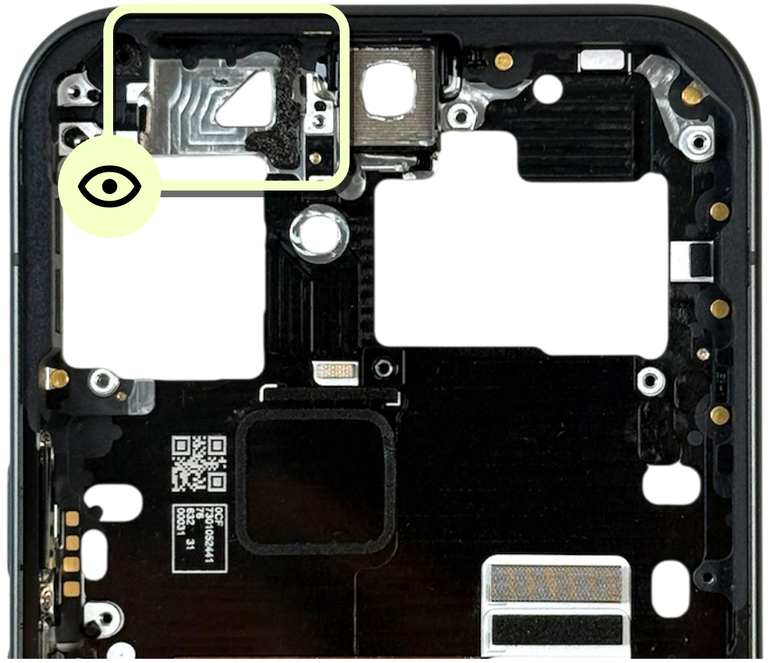
Assembly instructions

Top speaker

Clean the enclosure

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

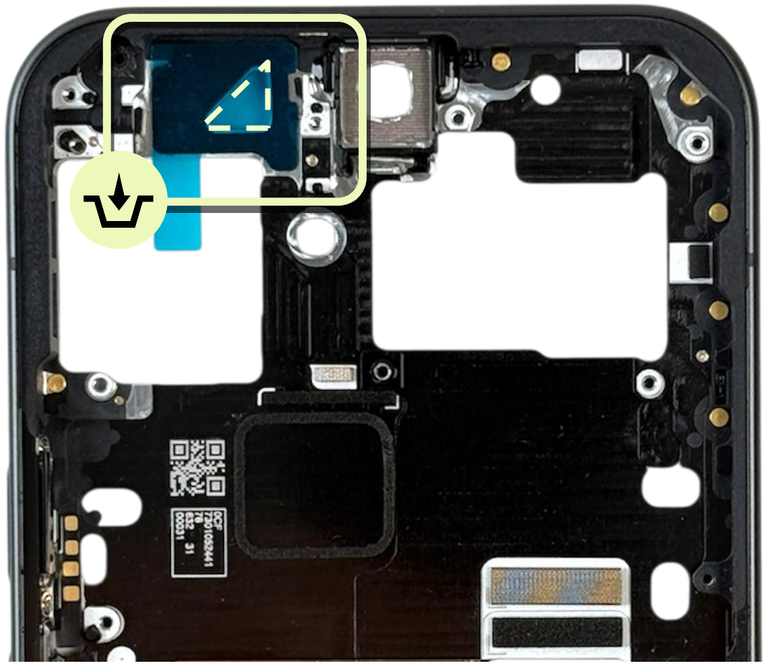
Part: multiple part numbers (enclosure)



Attach the top speaker PSA

- Align from the **dashed line** on the enclosure.
- Attach the **top speaker PSA** to the **yellow dashed line** with **ESD tweezers**.

Parts: G806-16635-11 (top speaker PSA)



Use caution

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

Note

This step is only present in the rework process.

The new **enclosure** already has **PSA** on it.

Attach the FoF_ANT4 and NFC

- Align from the **dashed line**, as shown in **Fig 1** and **Fig 2**.
- Attach the **FoF_ANT4 and NFC** with **ESD tweezers**, as shown in **Fig 3**.

Parts: G806-16636-01 (FoF_ANT4)

Parts: G806-16637-01 (FoF_NFC)

Note

This step is only present if the **FoF** is deformed or missing.

Otherwise, you might reuse it.

Fig 1

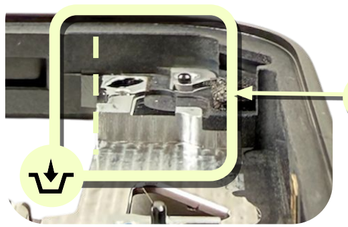
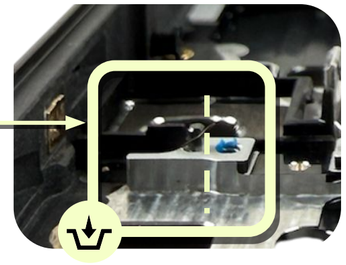


Fig 2



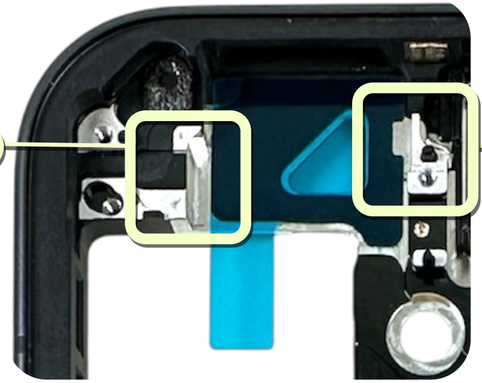
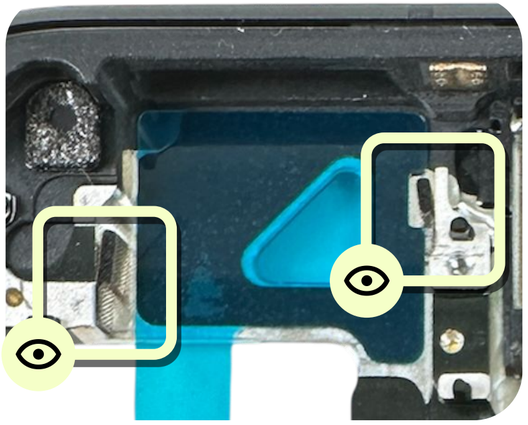


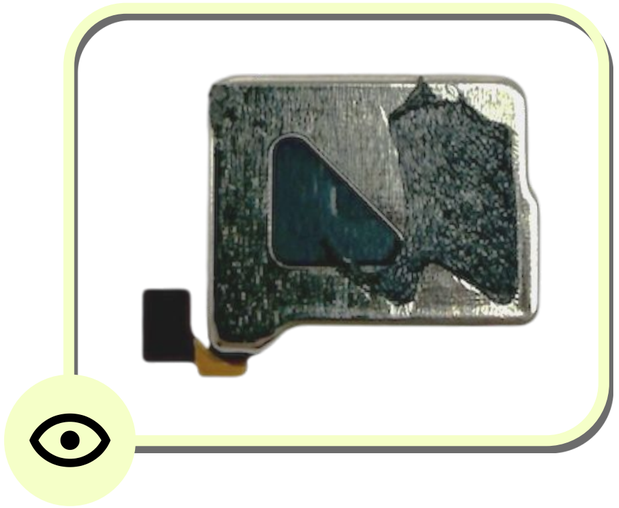
Fig 3



Reuse the top speaker

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

Part: G863-00728-01 (top speaker)



Assemble the top speaker

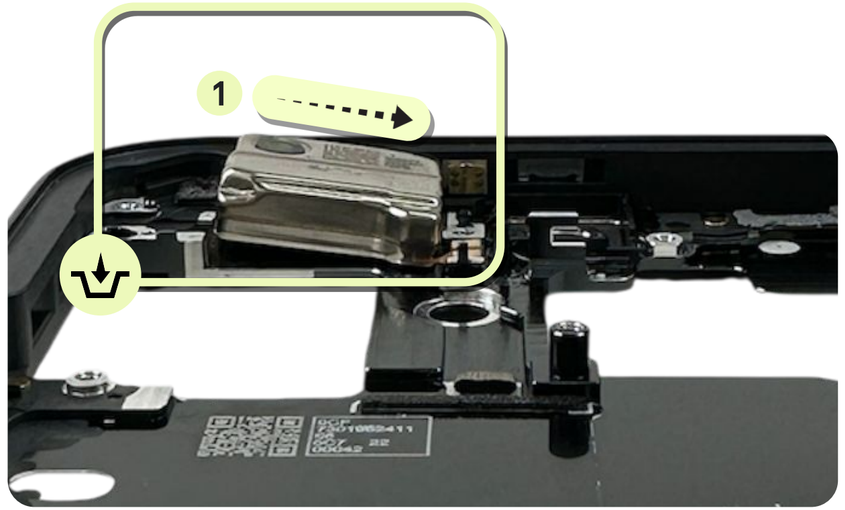
- Gently tear off the **top speaker PSA liner**.
- Align the **top speaker** following the sequence 1 and 2, then press down.
- Press for **10 seconds** manually to ensure adhesion.

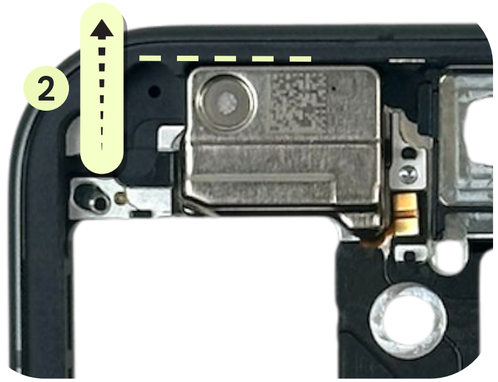
Part: G863-00728-01 (top speaker)

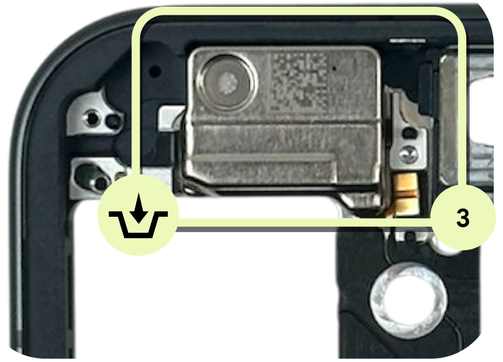
Note

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

Make sure that the FoF doesn't shift.







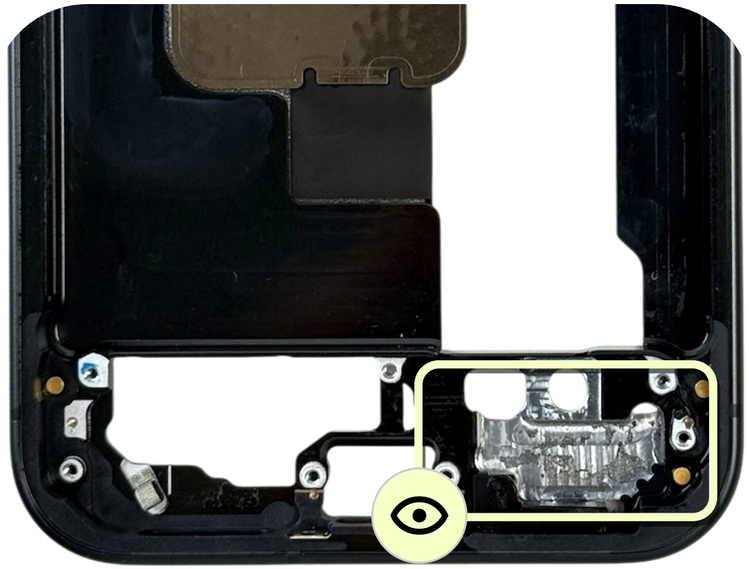
Assembly instructions

Vibrator

Clean the enclosure

- 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)

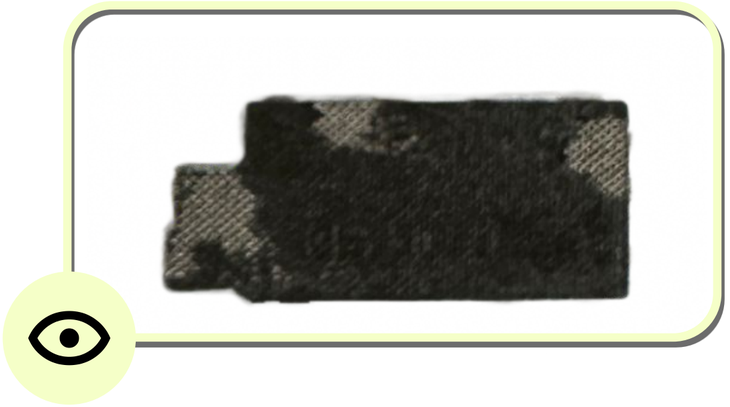


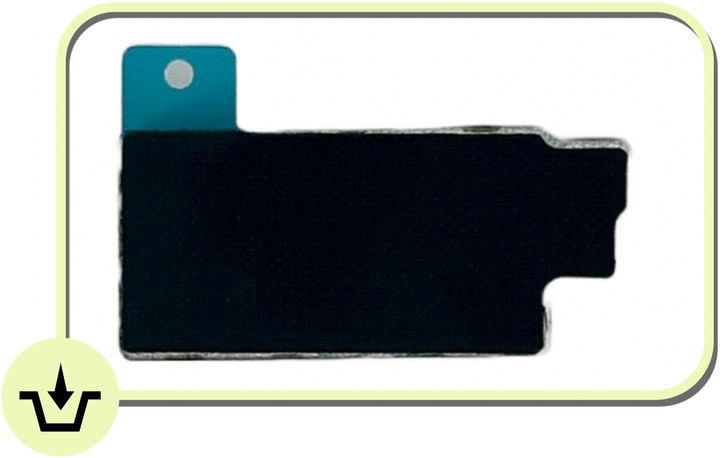
Reuse the vibrator

- 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: G710-09574-00 (vibrator)

Part: G806-19439-00 (vibrator PSA)





Note

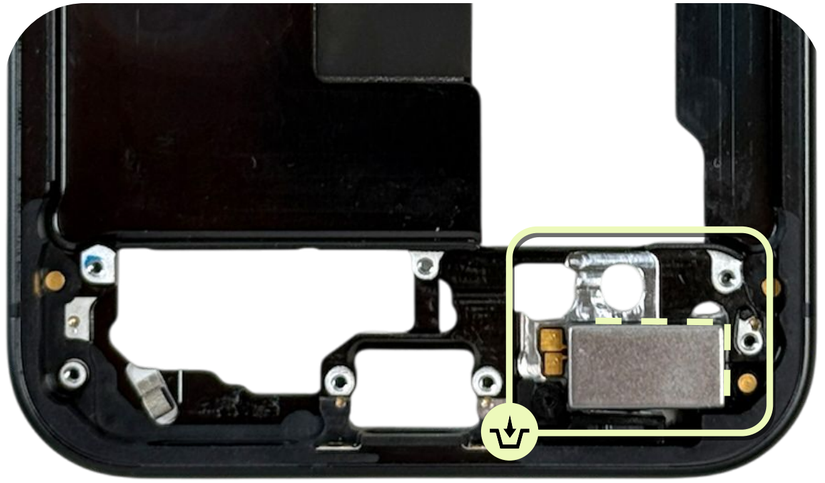
This step is only present in the rework process.

The new **vibrator** already has **CPSA** on it.

Attach the vibrator

- Remove the **vibrator PSA liner**.
- Slot the **vibrator** into place according to the upper right corner.
- Press for **10 seconds** manually.

Part: G710-09574-00 (vibrator)



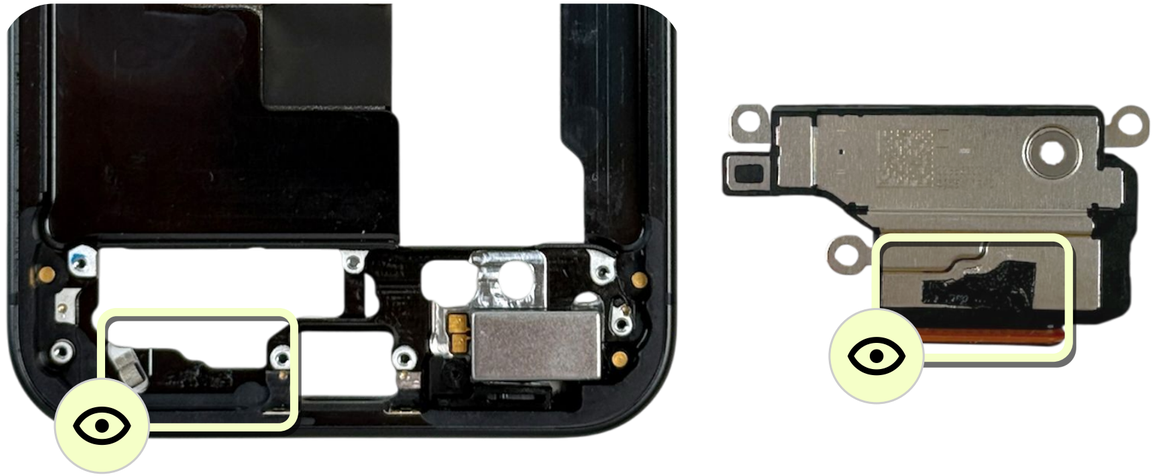
Assembly instructions

Bottom speaker

Clean the enclosure

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

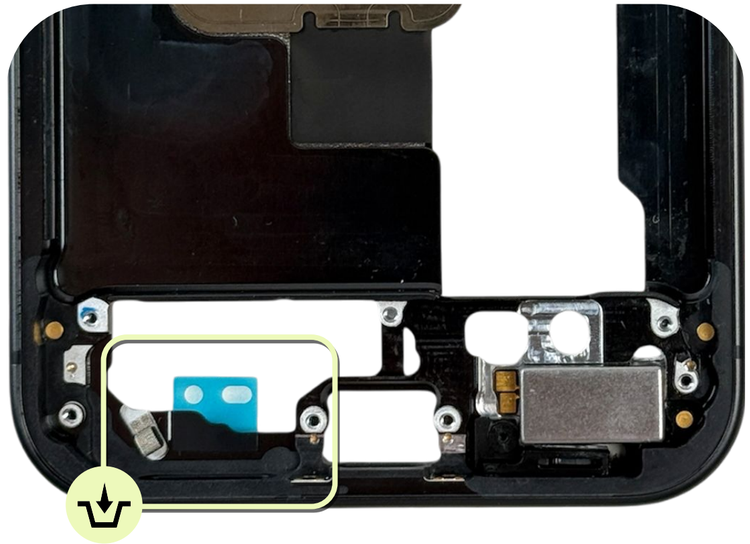
Part: multiple part numbers (enclosure)



Attach the bottom speaker PSA

Attach the **bottom speaker PSA** according to the outline of the **enclosure**.

Part: G806-19437-00 (bottom speaker PSA)



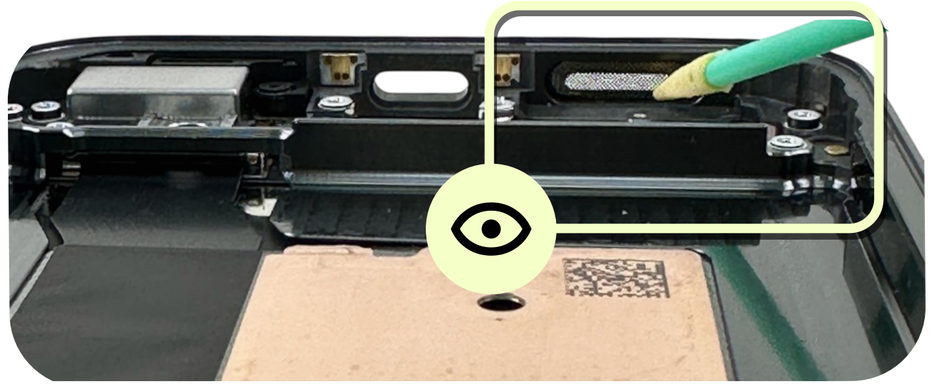
Note

This step is only present in the rework process.

The new **enclosure** already has **PSA** on it.

Apply the dry lube

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



Embed the bottom speaker

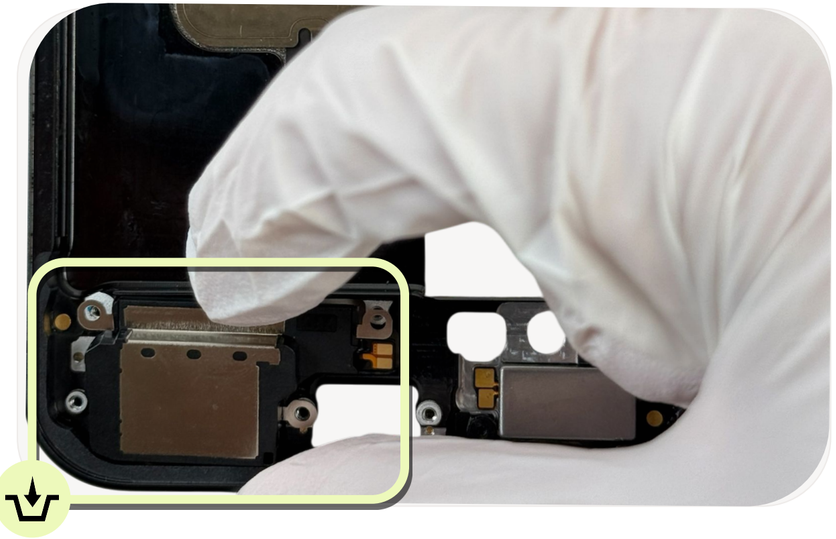
- Remove the **bottom speaker PSA liner**.
- Slot the **bottom speaker** into the **enclosure** at an angle.

Part: G863-00724-01 (bottom speaker)

Note

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





Assembly instructions

Chin board

Check the chin board

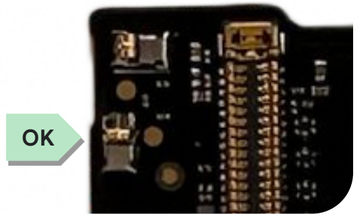
Use caution

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

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

General rules

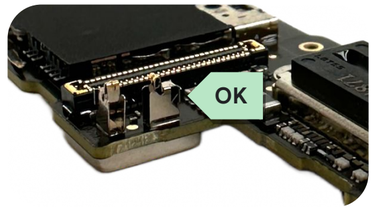
Bird view

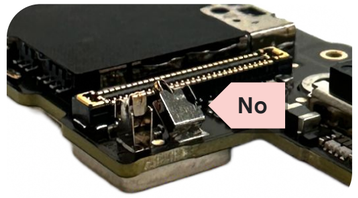




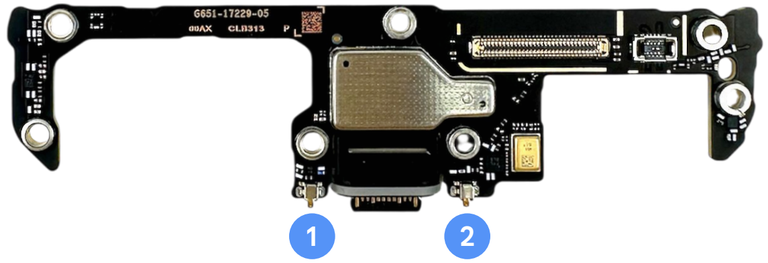
Missing

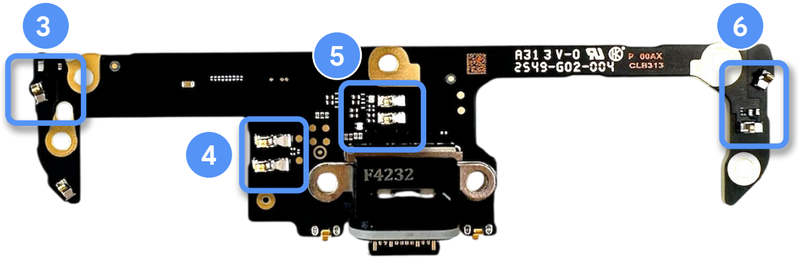
Side view





Broken



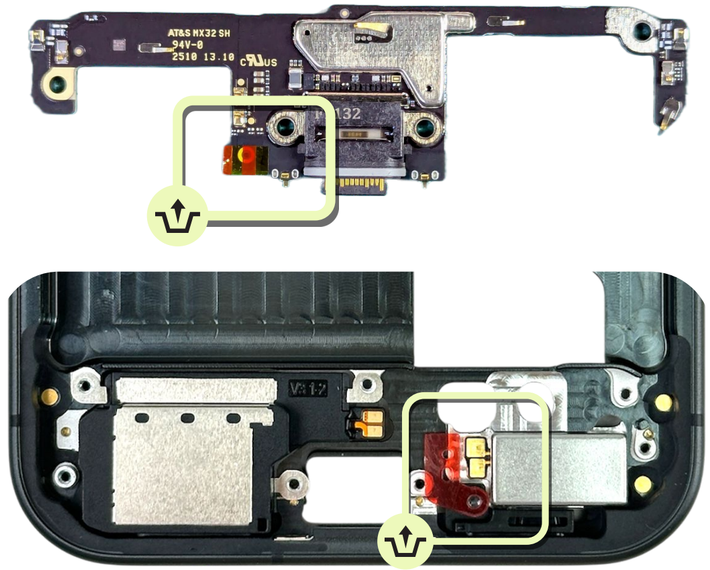


Prepare the chin board

- When you use a new **enclosure**, remove the **mic 1 bracket liner**.
- When you replace the **chin board**, remove the **mic 1 Kapton** from the new **chin board**.

Part: multiple part numbers (enclosure)

Part: G949-01799-00 (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 **near-horizontal** angle, as shown in **Fig 1** and **Fig 2**.
- Make sure that the USB port goes inside the slot on the **enclosure**.

Part: G949-01799-00 (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**.

Fig 1

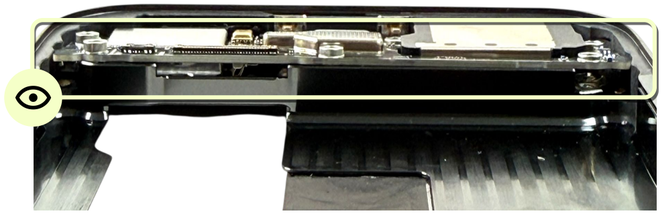
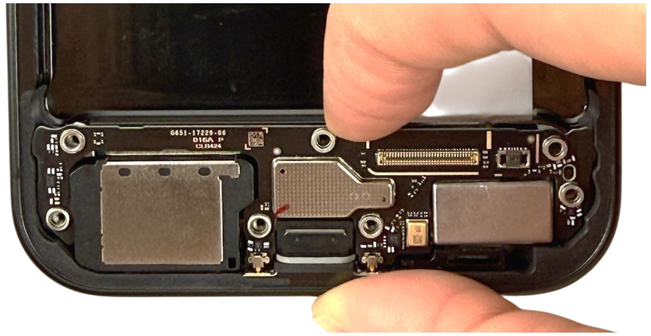


Fig 2





Fasten the screw

Fasten **three chin board screws** with a **torx plus 3IP screwdriver**.

Part: G250-08582-01*3 (screw)

Use caution

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



Assembly instructions

Logic board

Check the logic board

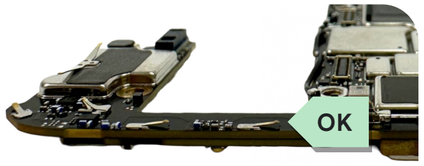
General rules

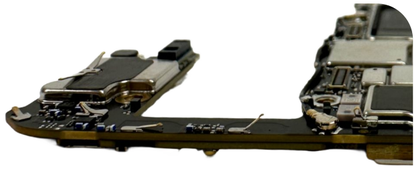
Use caution

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**.

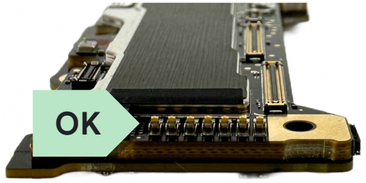
Springs

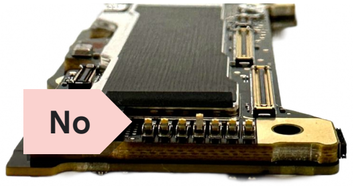




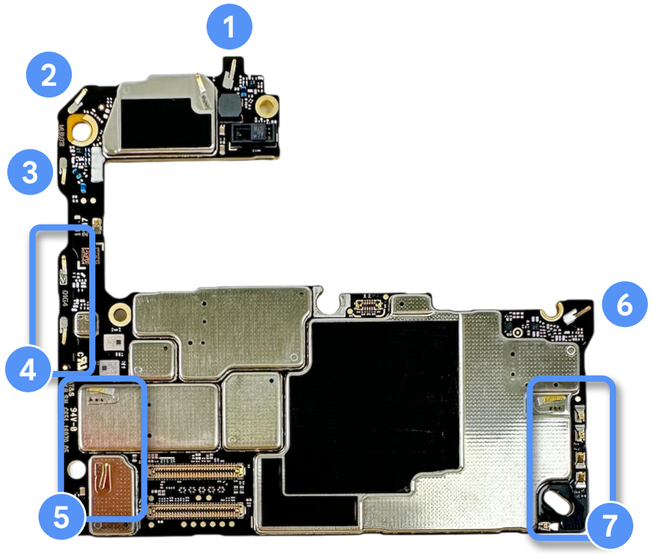
Deformation

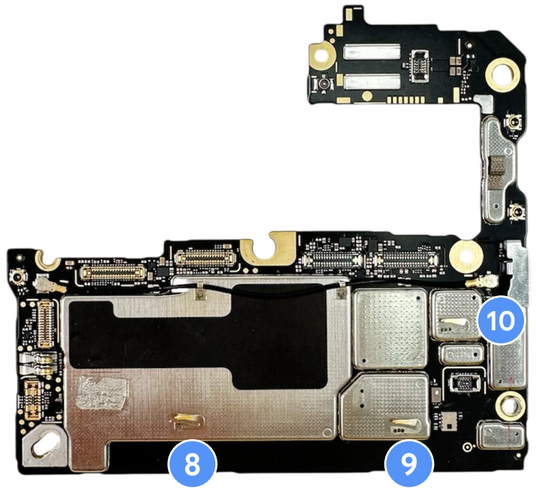
Pins





Deformation





Attach the P-sensor foam

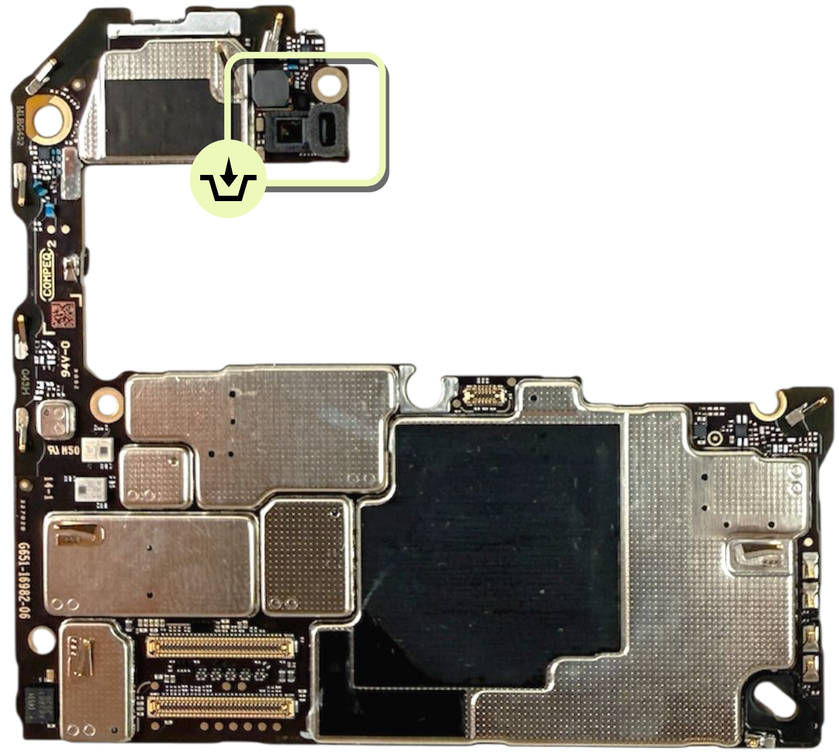
Attach the **P-sensor foam** to the **logic board** with **ESD tweezers**.

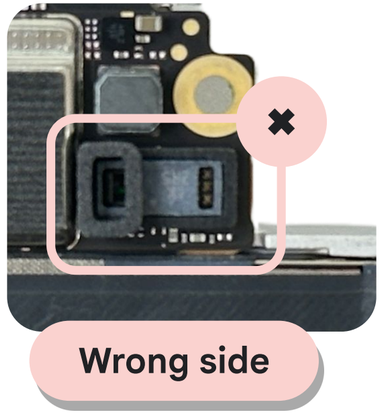
Part: G806-13064-01 (P-sensor foam)

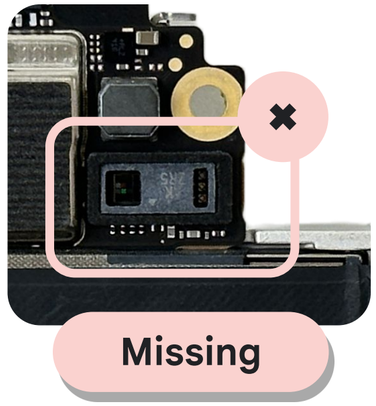
Note

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**.



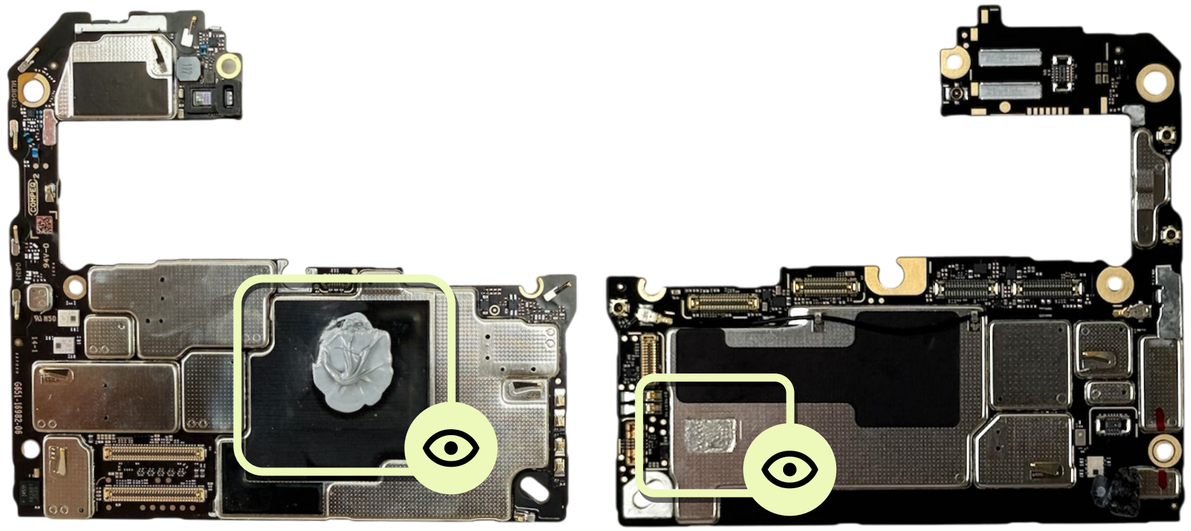




Reuse the logic board

- Clean any **thermal grease** and **battery flex PSA** 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**.

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: G949-01805-00 (DJ flex)

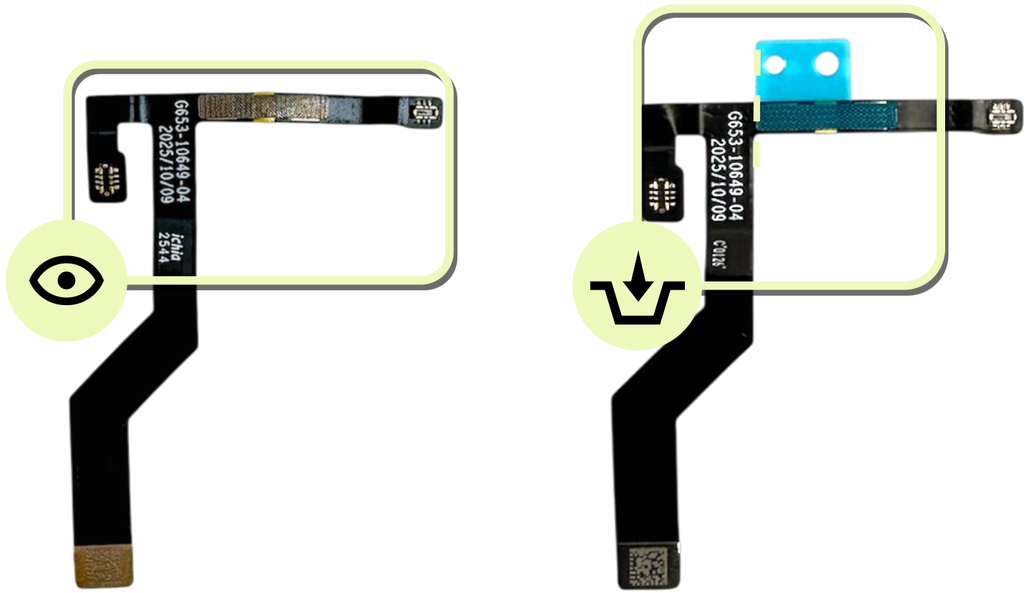


Reuse the TJ flex

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

Part: G949-01806-00 (TJ flex)

Part: TG806-19438-00 (TJ flex CPSA)



Note

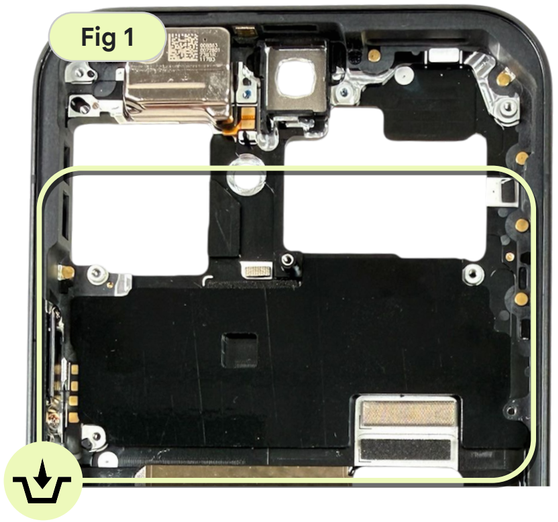
This step is only present in the rework process.

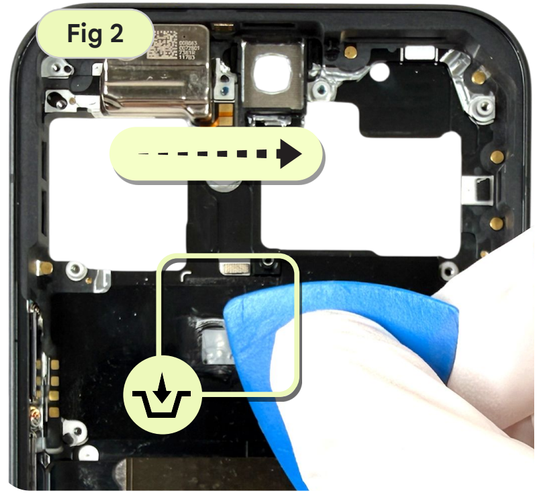
The new **TJ flex** already has **CPSA** on it.

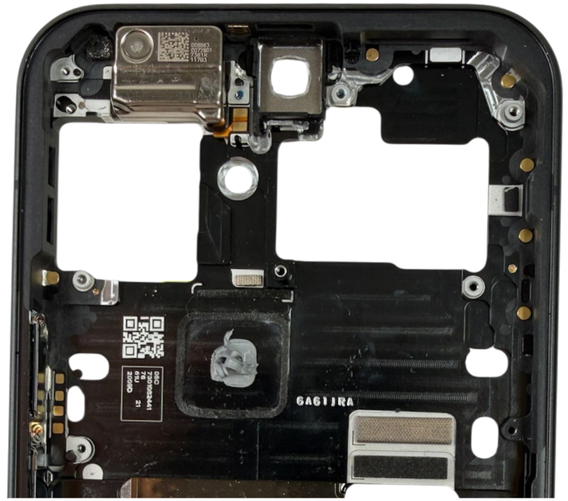
Apply the thermal grease

- Slightly remove the **SOC foam liner** and place the **Pixel 11 Pro XL 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: G160-01481-00 (thermal grease)







Use caution

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

Review all safety precautions before you begin work.

Clean the **Pixel 11 Pro XL 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.

Assemble the TJ, CJ, and DJ flex

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

Part: G949-01804-00 (CJ flex)

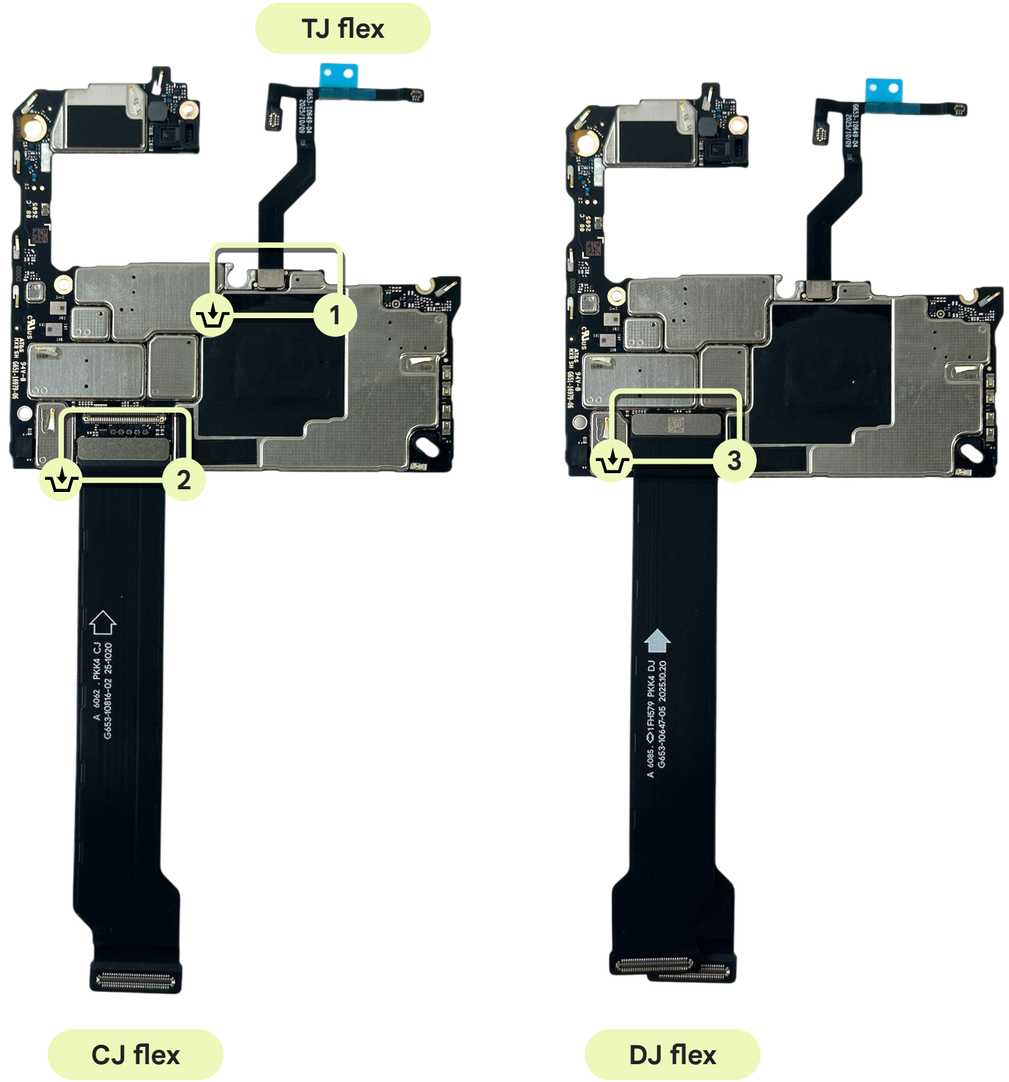
Part: G949-01805-00 (DJ flex)

Part: G949-01806-00 (TJ flex)

Note

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

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



Assemble the logic board

- Take the **highest boss hole** as the alignment pin, as shown in **Fig 1**.
- Assemble the **logic board** vertically to the **enclosure**.

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, as shown in **Fig 2**.

Fig 1

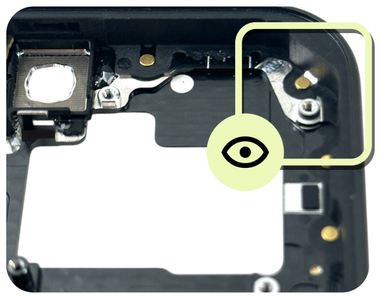
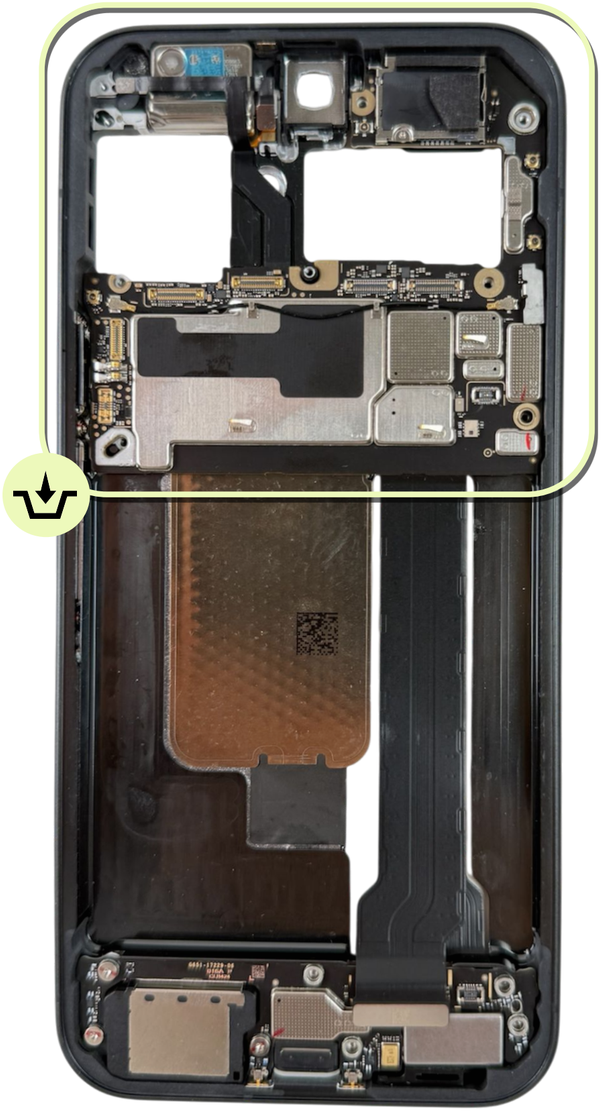


Fig 2





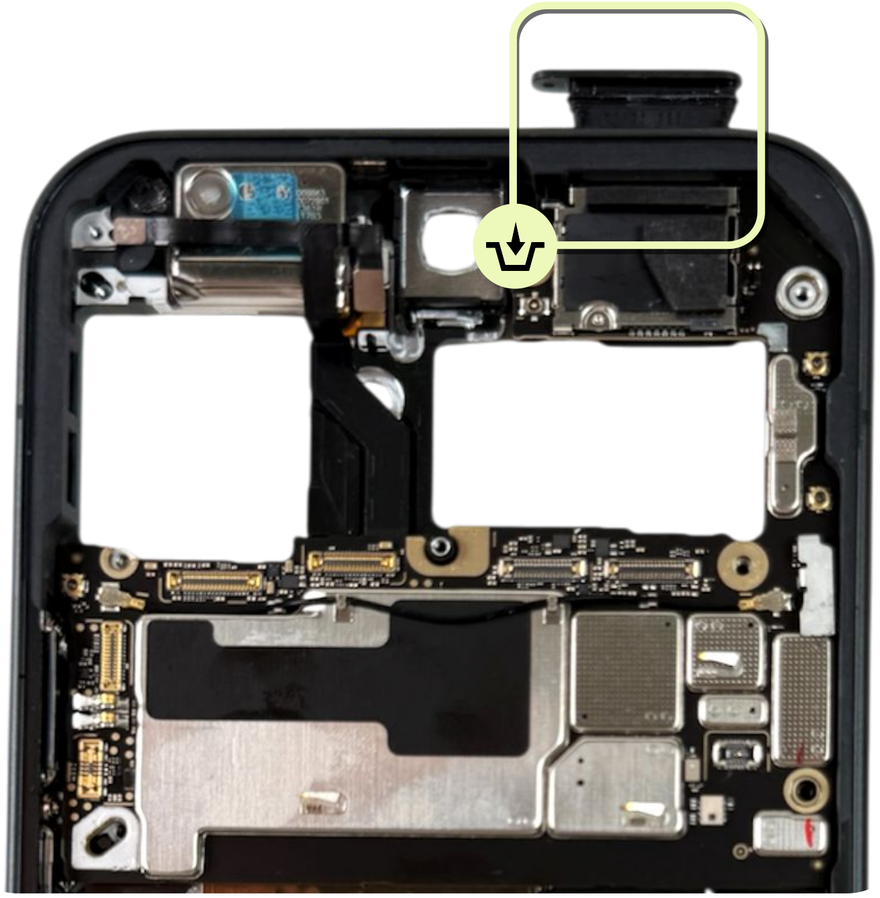
Insert the SIM tray

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 **cross screwdriver**.

Part: G250-08437-01 (screw)

Use caution

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



Connect the CJ flex

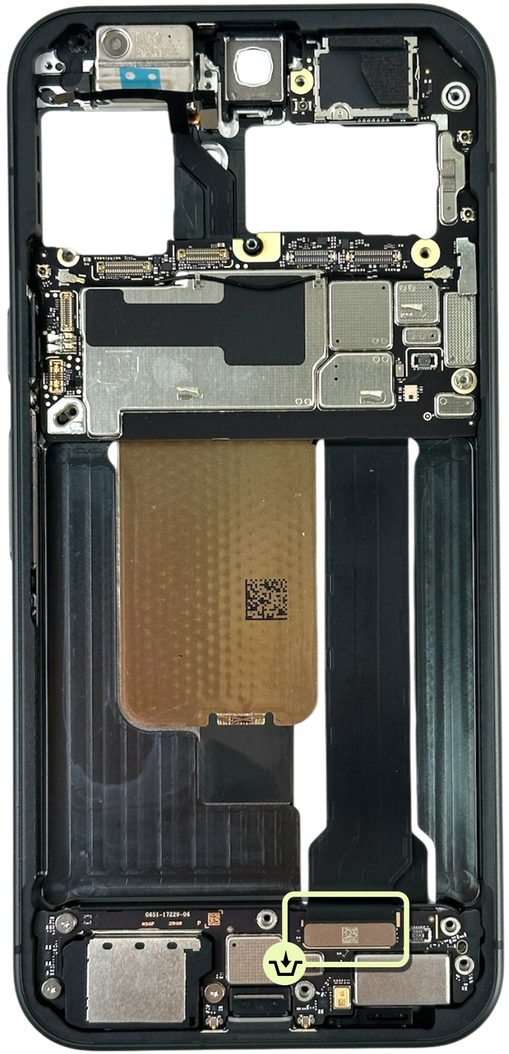
Buckle the **CJ flex** to the **chin board**.

Part: G949-01804-00 (CJ flex)

Part: G949-01799-00 (chin board)

Note

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



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.
- Use the narrow end of an **ESD spudger** to clean the **FCAM area**, as shown in **Fig 1**.

Part: multiple part numbers (enclosure)

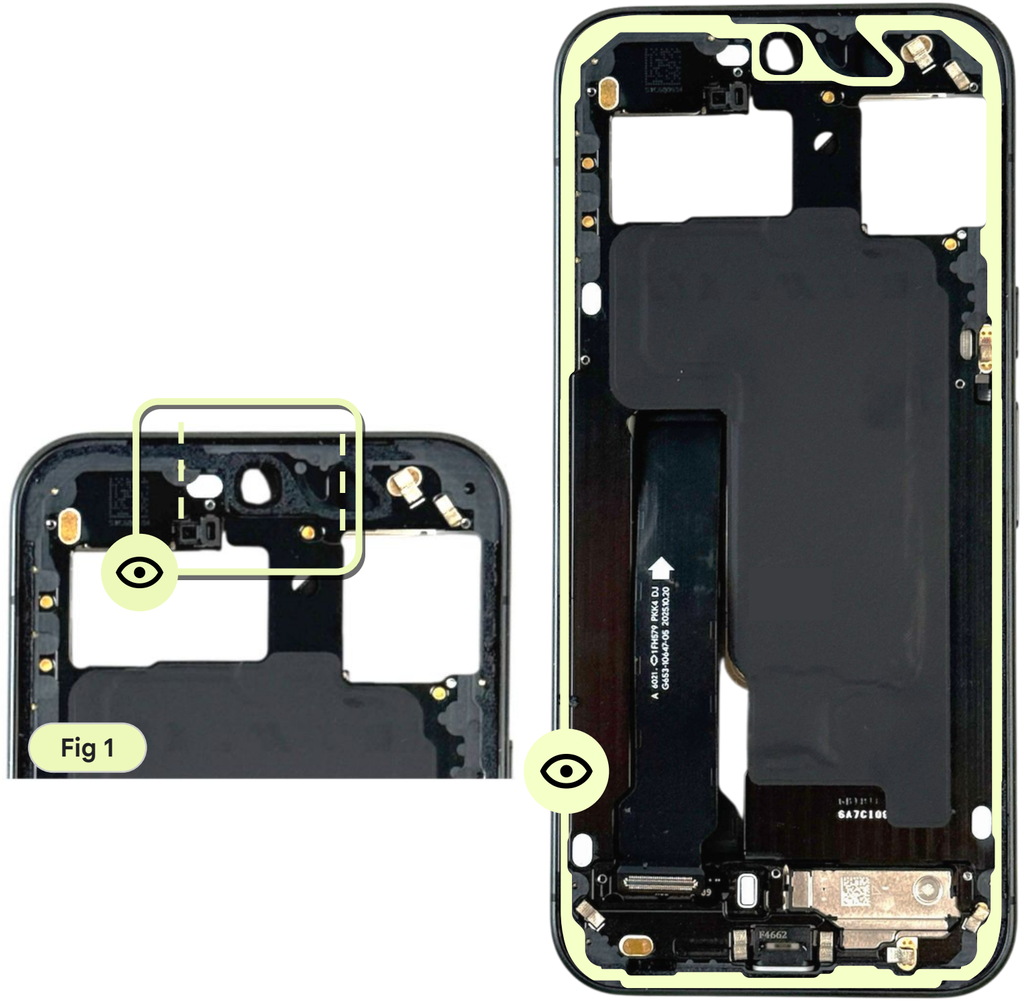


Fig 1

Use caution

Be careful to avoid touching the **front camera lens** when you replace the **display**.

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: G806-16631-93 (CG 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)

- Remove the first layer from the **triangle** on the liner.
- 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

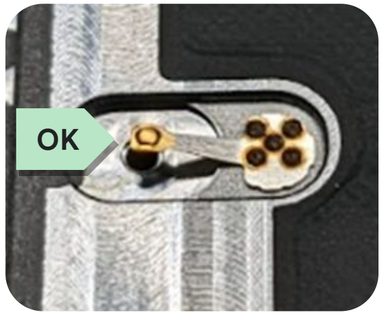
Use caution

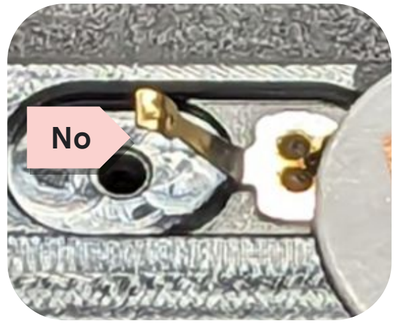
Before you assemble, inspect the **display** for any spring deformation.

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

General rules

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: G949-01777-00 (display module)

Note

Use the narrow end of an **ESD spudger** to clean the residue around the **FCAM area**.

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



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: G949-01777-00 (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: G806-16654-91 (DJ shear PSA)

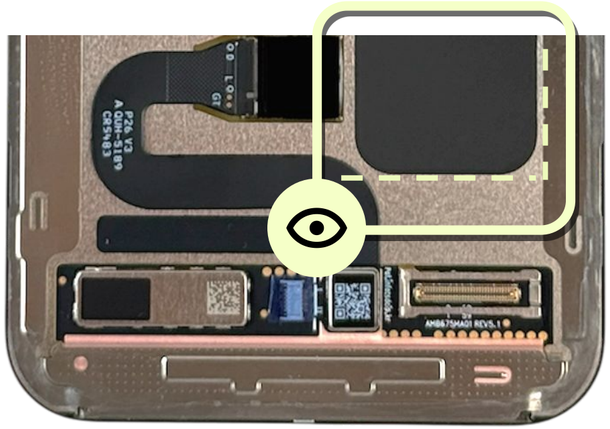
Use caution

Make sure that the **DJ shear PSA** is totally attached on the **display**.

Don’t cover it with **graphite** or the other materials.

Note

This step is only present in the **reused display**.





Connect the display

- Put the **display** on the table and hold the **enclosure** with your **hand**.
- Apply even pressure across the connector to connect the **DJ flex** to the **display** and ensure a full engagement.

Part: G949-01777-00 (display module)



Use caution

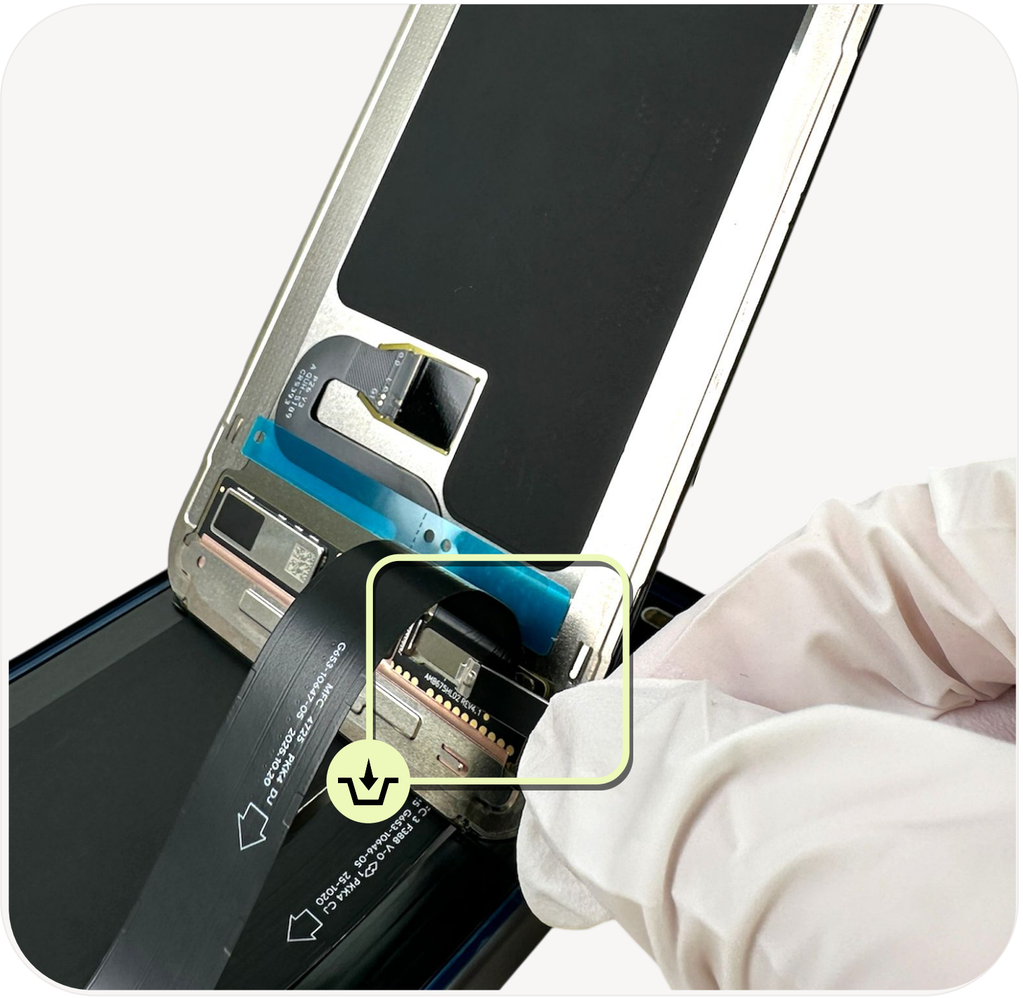
When you attach the **display**, ensure that the **driver IC (COF)** isn't damaged or deformed.

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

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: G730-10544-01 (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**.

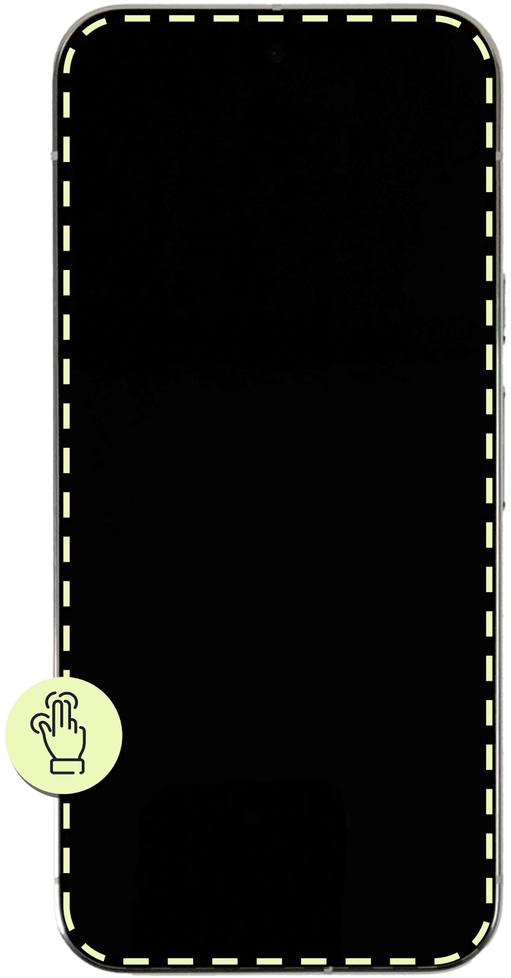


Activate the adhesive

- 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.



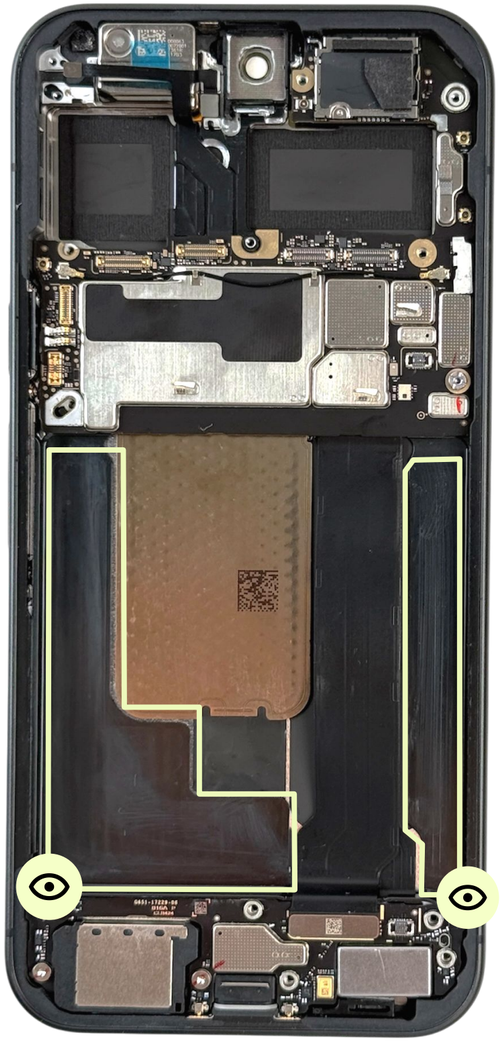
Assembly instructions

Battery

Clean the enclosure

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

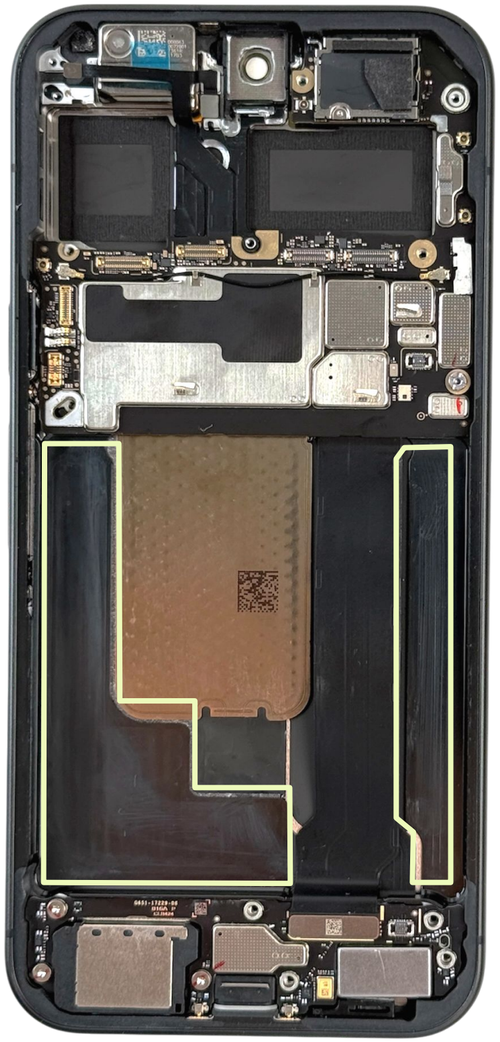
Part: multiple part numbers (enclosure)



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)



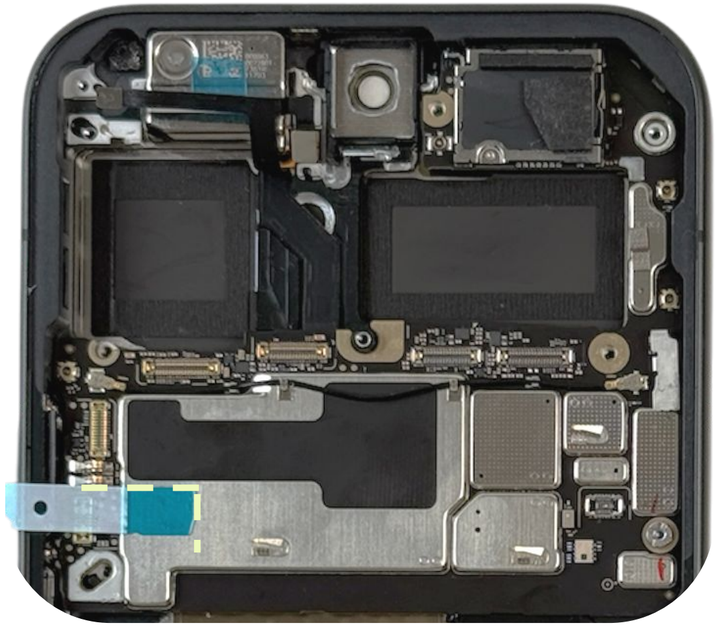
Use caution

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

Attach the battery flex PSA

- Align from the **dashed line** on the **logic board.**
- Attach the **battery flex PSA** with **ESD tweezers.**

Part: G806-17021-01 (battery flex PSA)



Use caution

Don't touch the **adhesive**.

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

Note

This step applies when you detach the **battery** connector.

Align the battery

- Confirm the battery model to be **GK2AU**. If the model number isn't **GK2AU**, *don't* use the battery.
- Use a **2.0 cm absorption bulb** to pick up the **battery**.
- Turn the device to **horizontal** and 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** by the **circle** to lift it up vertically 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 to installation.

Prepare to 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 11 Pro XL 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

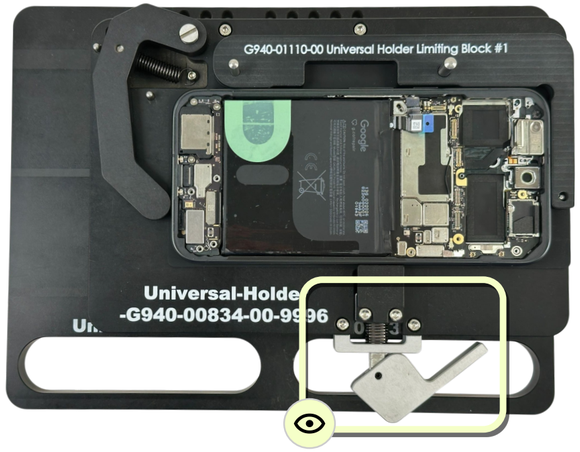


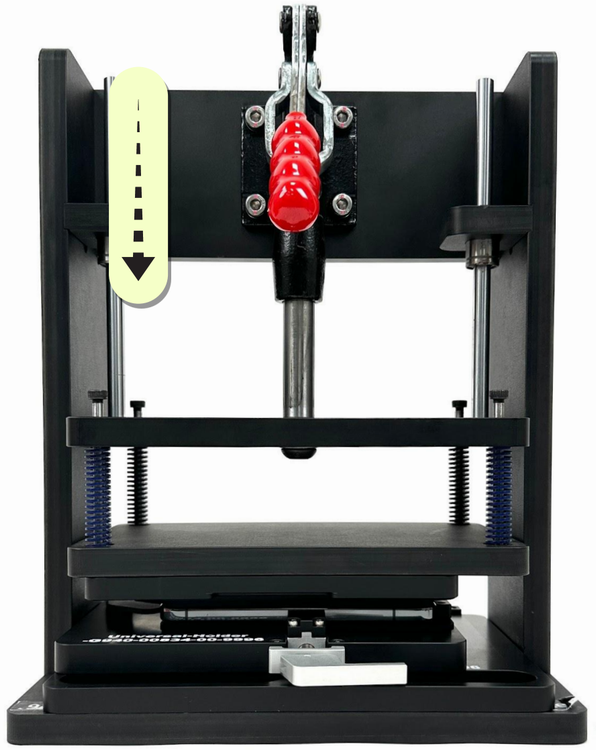
Fig 3



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 **60 seconds**.
- Restore the handle to the original position and remove the stack.





Use caution

Pinch point.

Keep your hands clear during operation.

Attach the RJ flex

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

Part: G652-10648-02 (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

- Place the **CLB cowling** in position with **ESD tweezers**, making sure the screw holes align with those of the components below.
- Fasten the **four CLB cowling screws** in a sequence with a **torx plus 3IP screwdriver**.

Part: G730-10537-01 (CLB cowling)

Part: G250-08482-01*4 (screw)



Use caution

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

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.

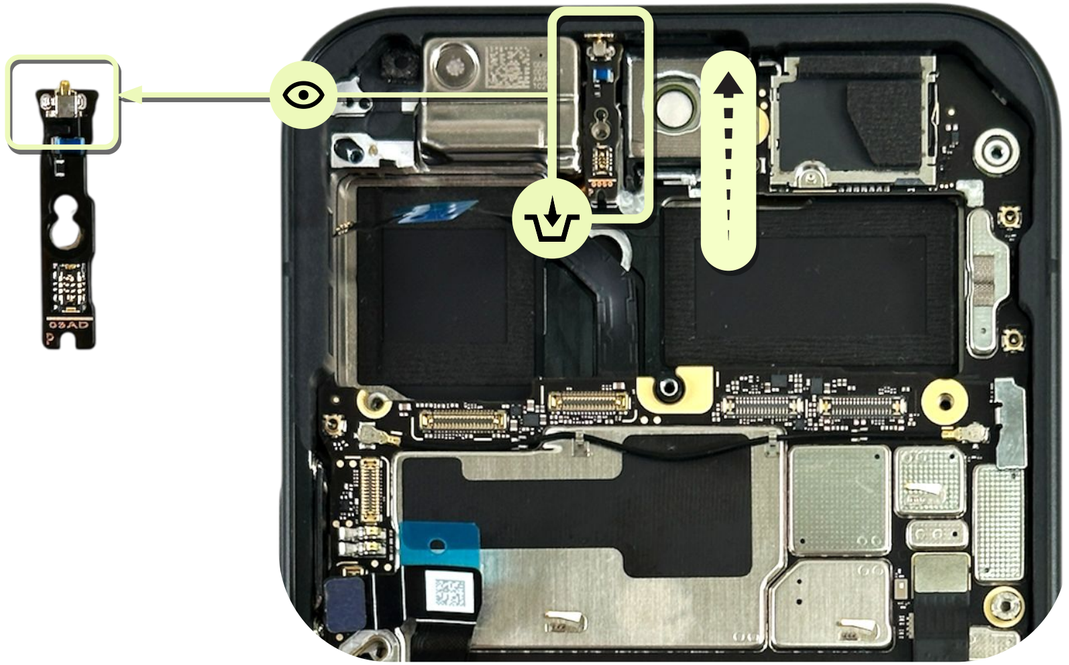
Assembly instructions

NFC board

Assemble the NFC board

Install the **NFC board** downward at a slight angle to make sure that the spring contacts the contact pad on the **enclosure**.

Part: G949-01801-00 (NFC board)



Use caution

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

Note

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

Make sure that the **NFC board** is properly installed by ensuring the positioning post goes through the **alignment pin**.

Fasten the screw

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

Part: G250-08385-01 (screw)

Use caution

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



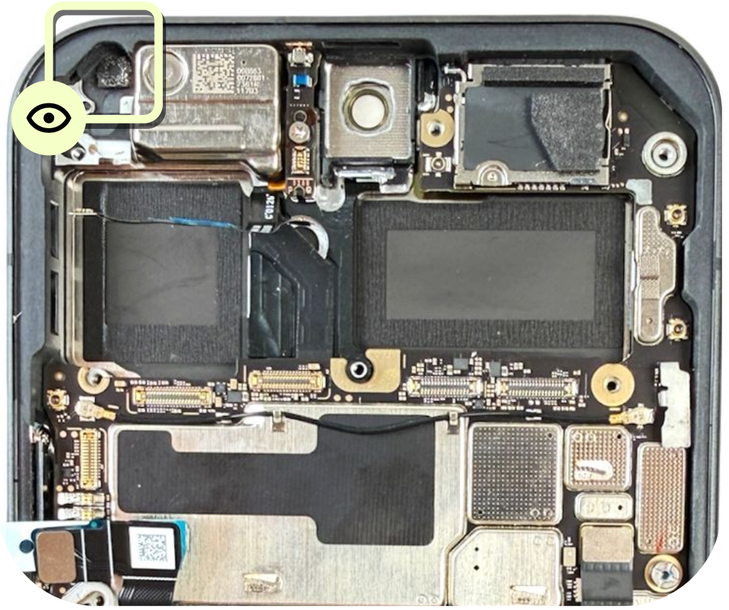
Assembly instructions

ANT4 board

Clean the enclosure

- Clean the **mic 3 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 **mic 3 mesh** residue on the **ANT4 board** with **ESD tweezers**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: G949-01800-00 (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 mic 3 mesh

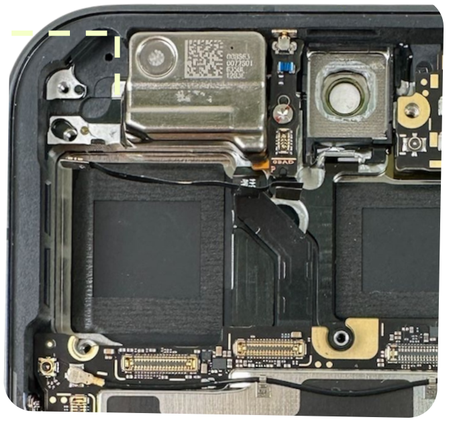
Attach the **mic 3 mesh** according to the outshape of the **enclosure** with **ESD tweezers**.

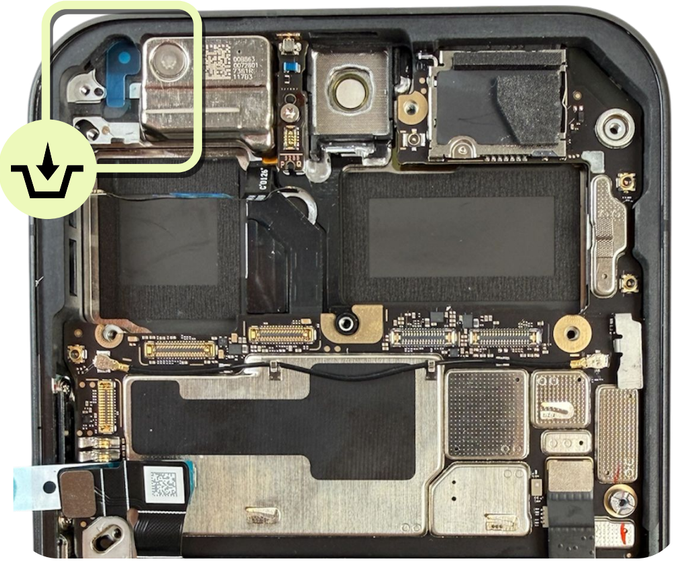
Part: G806-16650-01 (mic 3 mesh)

Note

This step is only present in the rework process.

The new **enclosure** already has **mic 3 mesh** on it.

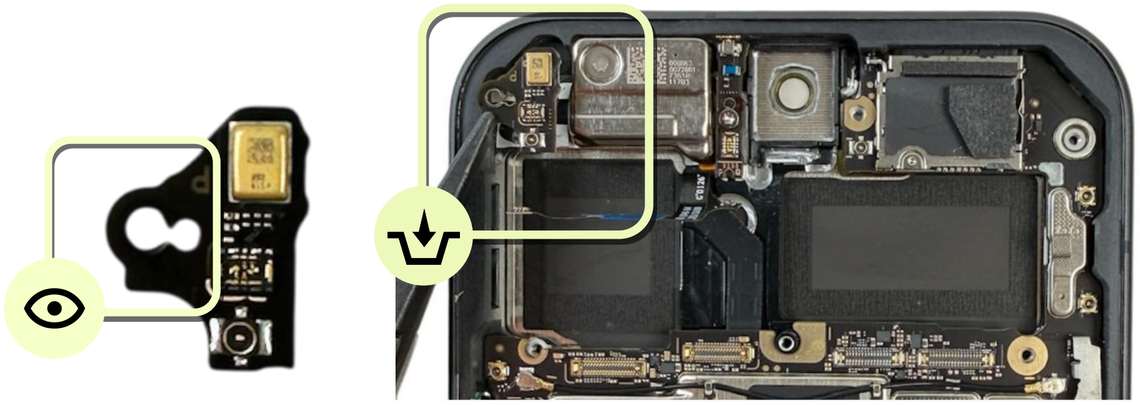




Assemble the ANT4 board

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

Part: G949-01800-00(ANT4 board)



Use caution

Make sure that the **mic 3 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**.

Fasten the screw

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

Part: G250-08385-01 (screw)

Use caution

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



Buckle the coaxial cable

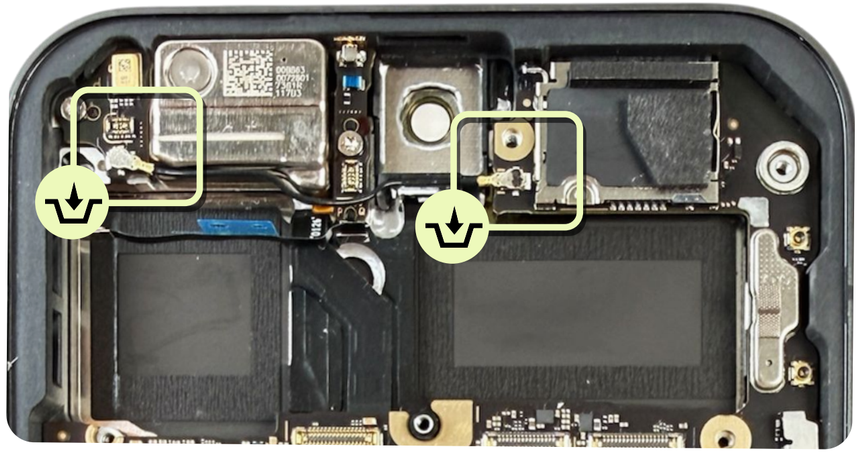
- Buckle the **coaxial cable** to the **ANT4 board** with an **ESD spudger**.

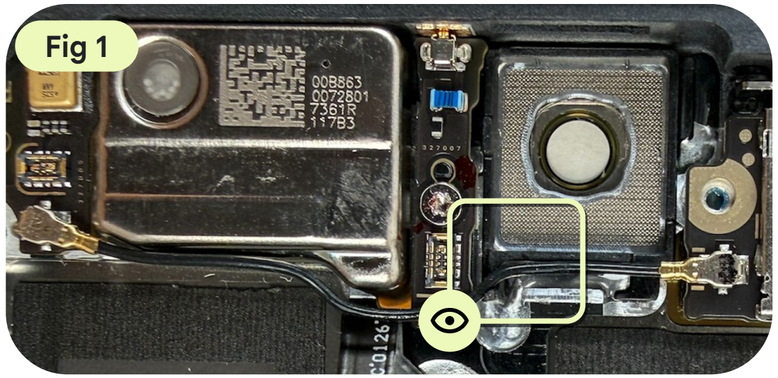
Part: G949-01810-00 (coaxial cable)

Note

Make sure that the **coaxial cable** is inside the locating pin, as shown in **Fig 1**.

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

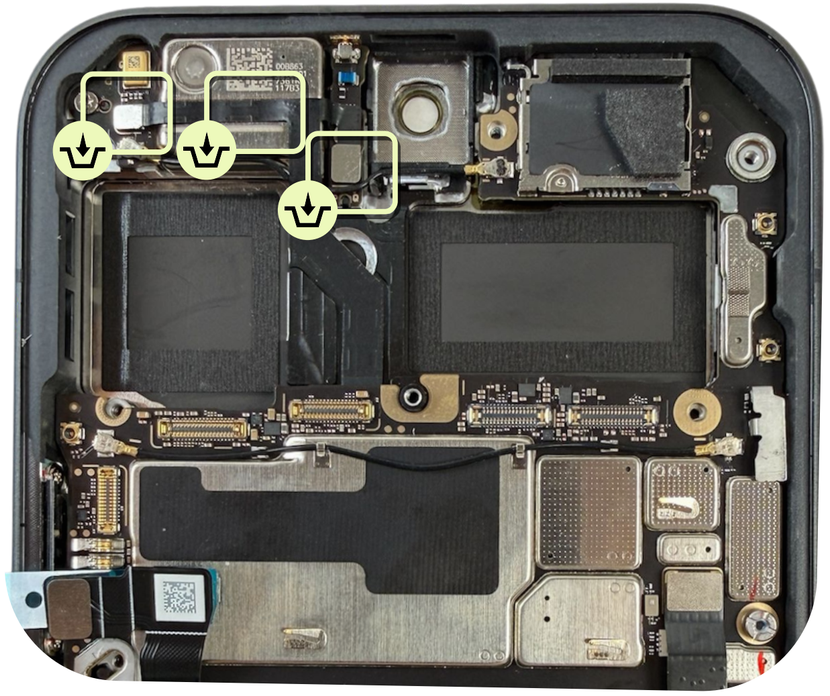




Connect the TJ flex

- Remove the **TJ flex CPSA liner** and buckle the **TJ flex** to the **ANT4 board** and **NFC board.**
- Ensure that the adhesive fully adheres with an **ESD spudger**.

Part: G949-01806-00 (TJ flex)



Note

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

Assembly instructions

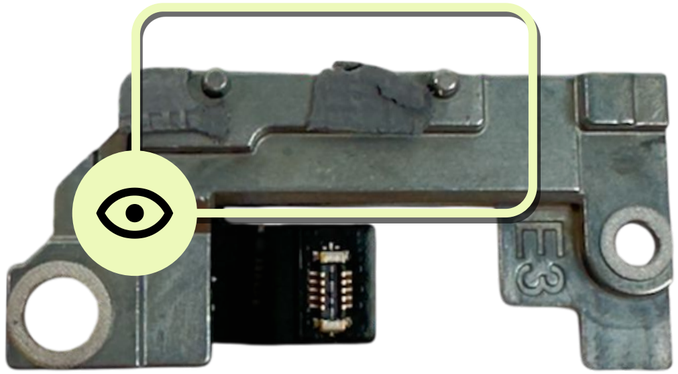
mmWave module

Reuse the mmWave module

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

Part: G949-01807-00 (mmWave module)

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



Apply the thermal TIM_mmWave

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

Part: G864-01188-02 (TIM pad_mmWave)



Note

Undamaged **TIM pad_mmWave** could be reused.

Otherwise, they should be replaced.

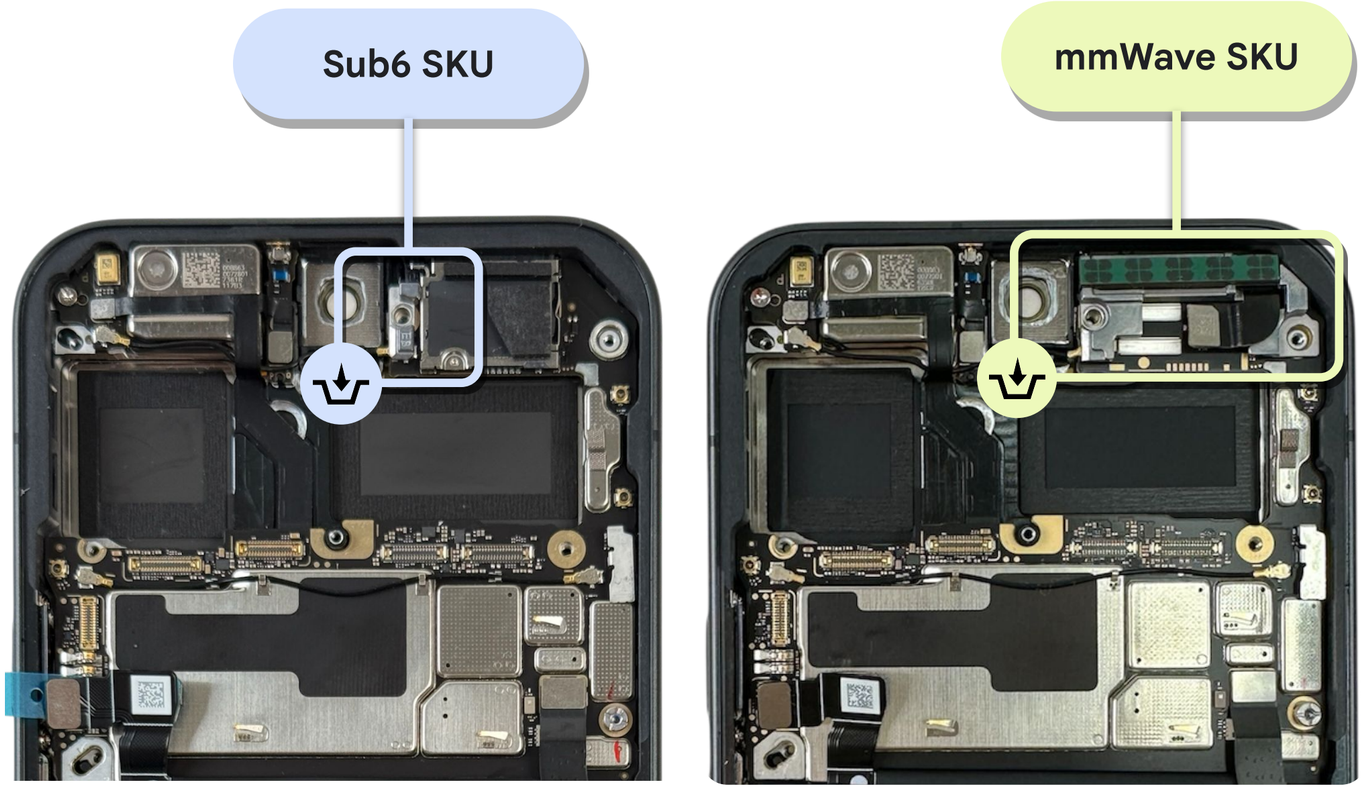
This step is only present in the **mmWave SKU**.

Assemble the mmWave module or bracket_sub6

Assemble the **mmWave module** or the **bracket_sub6**.

Part: G949-01807-00 (mmWave module)

Part: G850-00866-01 (bracket_sub6)



Fasten the screw

Fasten the **mmWave module** or **bracket_sub6 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.



Sub6 SKU

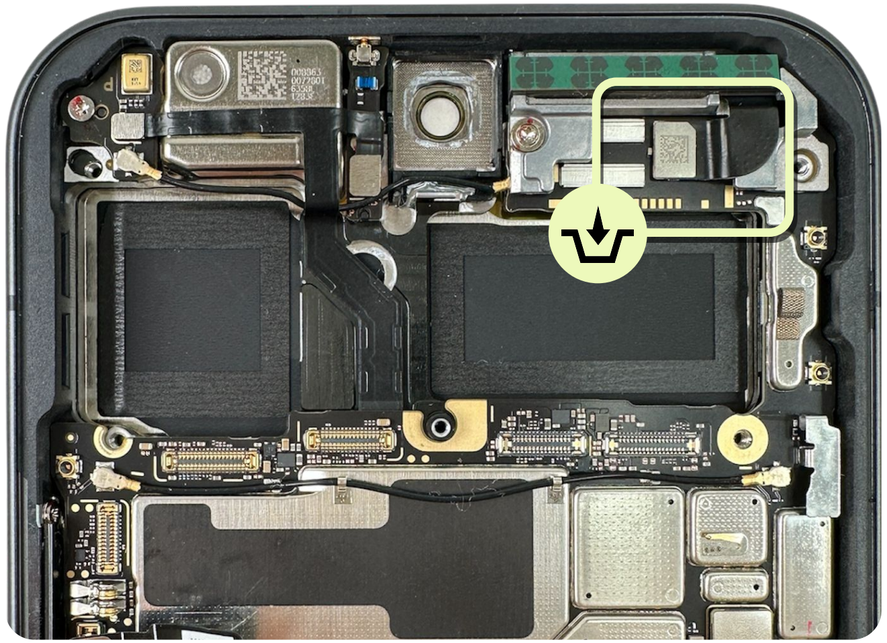
mmWave SKU

Connect the mmWave module

Buckle the **mmWave module connector** to the **logic board**.

Part: G949-01807-00 (mmWave module)

Part: multiple part numbers (logic board)



Note

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

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

Assembly instructions

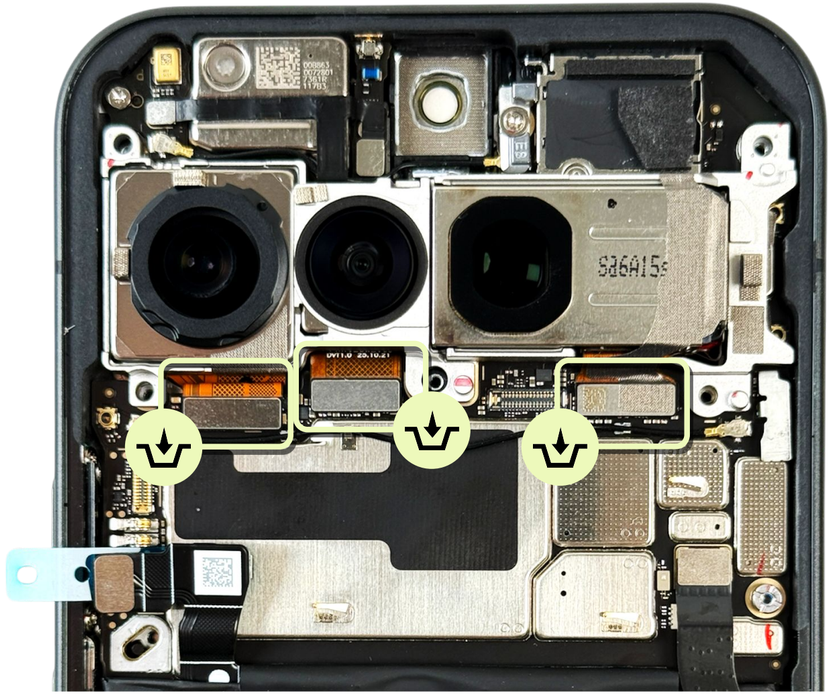
Rear camera

Assemble the rear camera

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

Part: G949-01803-00 (rear camera)

Part: multiple part numbers (logic board)



Use caution

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

Note

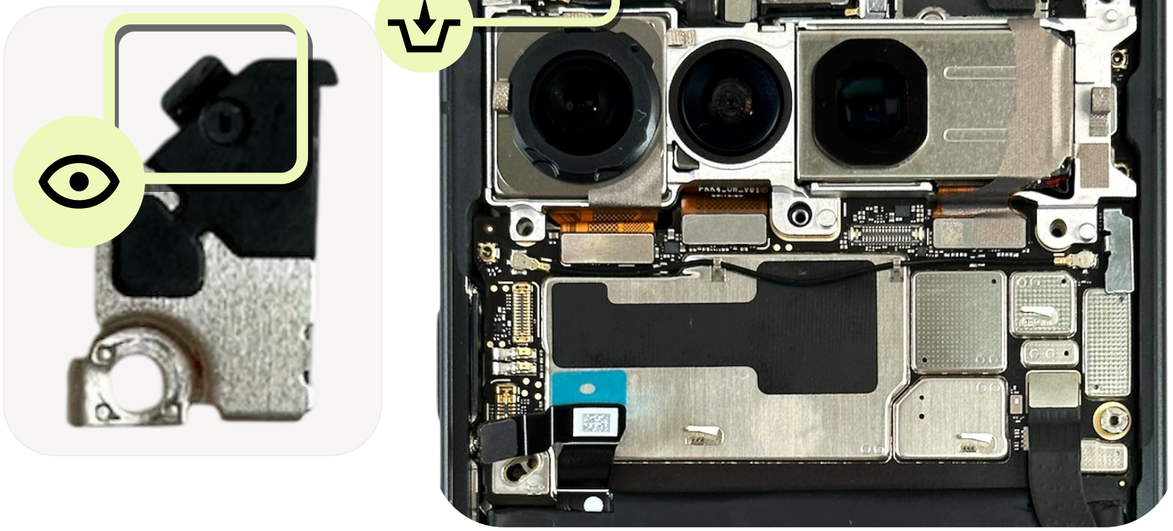
Don't touch the **rear camera lenses**.

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

Assemble the ANT4 cowling

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

Part: G730-10536-01 (ANT4 cowling)



Note

Make sure that the **ANT4 cowling** goes under the enclosure slot.

Fasten the screw

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

Part: G250-08386-12 (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: G949-01802-00 (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: G806-16651-04 (FCAM CPSA)



Use caution

Don't touch the **adhesive**.

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

Note

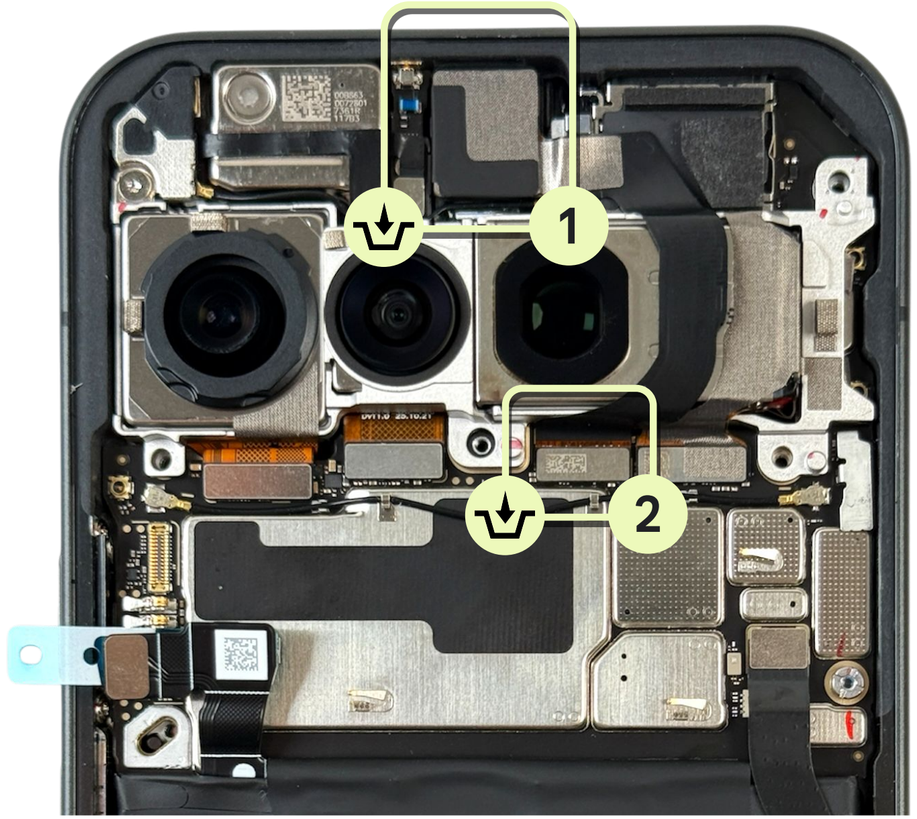
This step is only present in the rework process.

The new **enclosure** already has **CPSA** on it.

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: G949-01802-00 (front camera)



Use caution

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

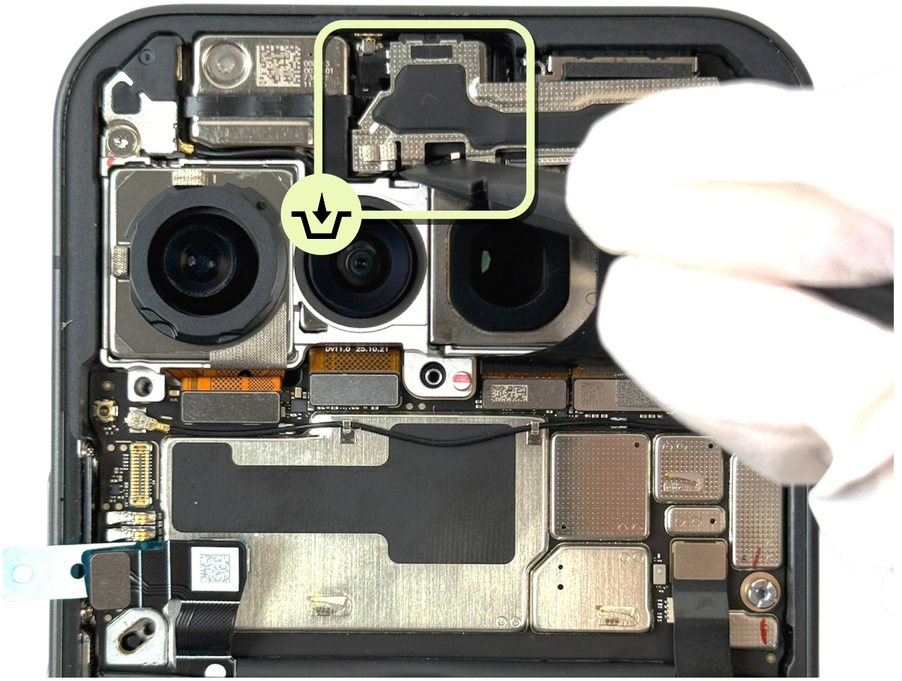
Note

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.
- With an **ESD spudger**, push the **FCAM cowling** retaining clip forward.





Part: G730-10538-01 (FCAM cowling-mmWave)

Part: G730-10538-11 (FCAM cowling-sub6)

Note

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

Use caution

Be careful to route the **coaxial cable**.

Fasten the screws

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

Part: G250-08386-12 (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.





Assembly instructions

BG sub

Connect the battery

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

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



Attach the heatsink tape

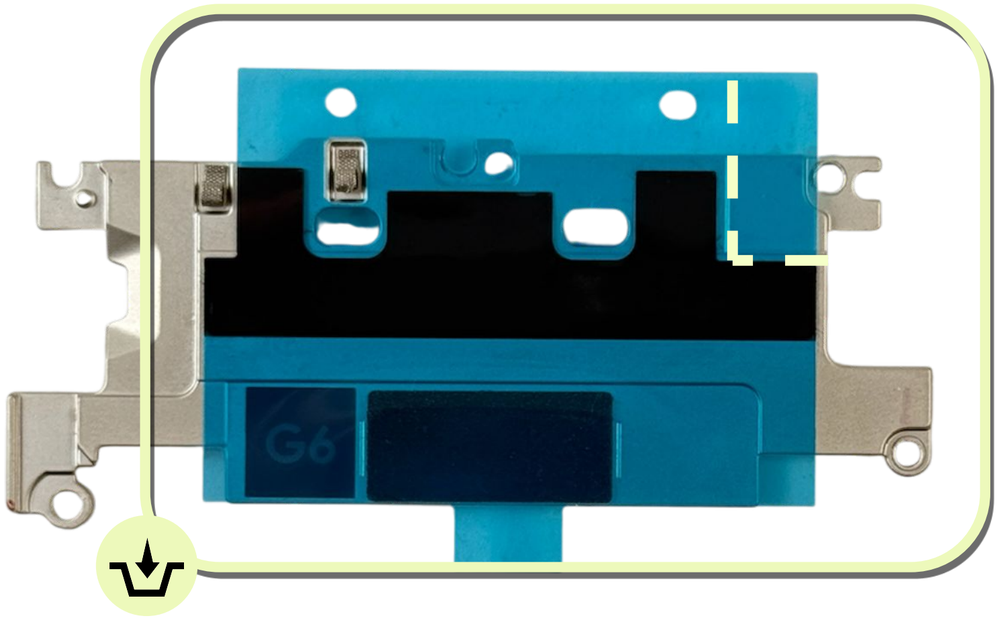
- Align from the **dashed line** on the **MLB cowling.**
- Attach the **heatsink tape** with **ESD tweezers.**

Part: G806-18103-00 (heatsink tape)

Use caution

Don't touch the **adhesive**.

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



Fasten the screws

- Assemble the **MLB cowling** with **ESD tweezers**.
- Fasten **three MLB cowling screws** with a **torx plus 3IP screwdriver**.

Part: G730-10539-02 (MLB cowling)

Part: G250-08436-03 (screw)

Part: G250-08386-23*2 (screw)



A: G250-08436-03

B: G250-08386-23

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.

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: G806-18416-01 (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

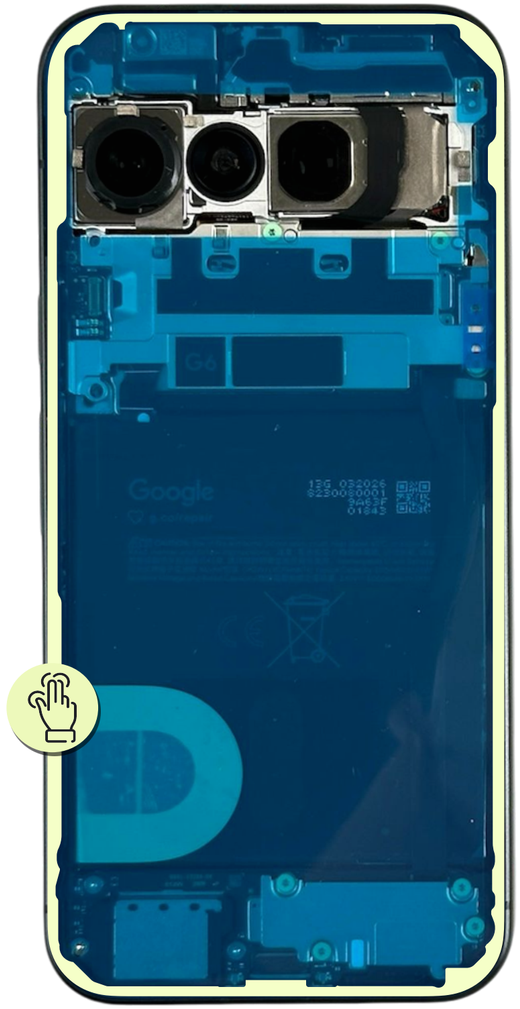
Ensure that the **adhesive** fits properly onto the **enclosure**.

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.



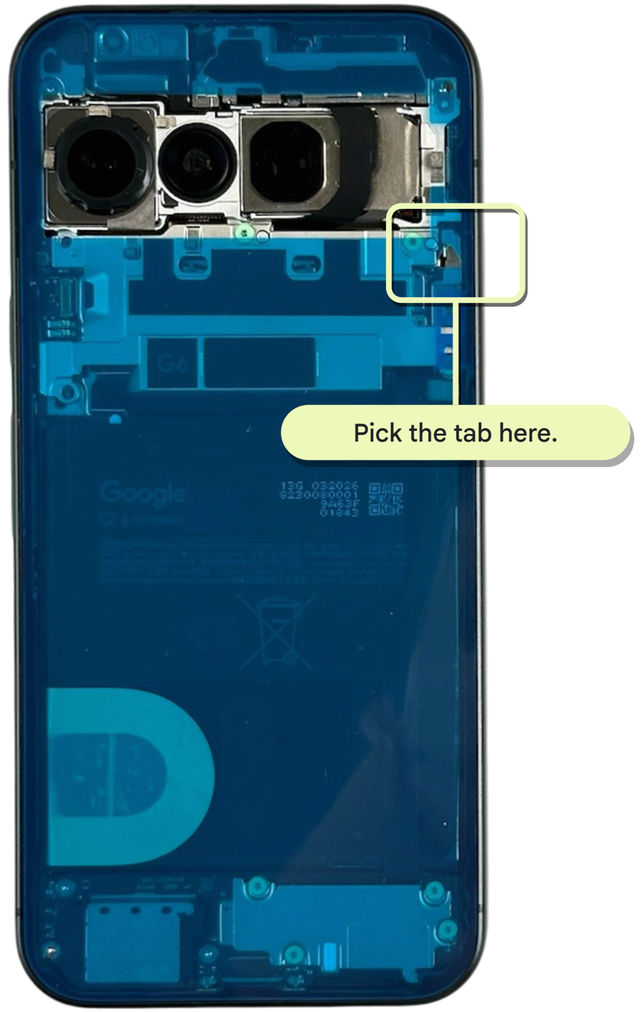
Remove the liner (first layer)

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.

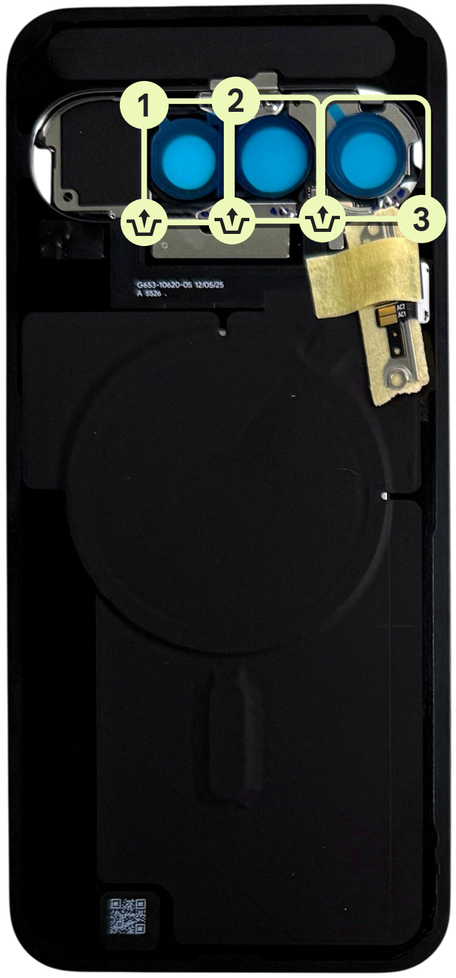
Part: multiple part numbers (BG sub)

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 sub** 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**.



Fasten the screws

- Assemble the **BG cowling** into the designed position.
- Fasten the **two BG cowling screws** with a **torx plus 3IP screwdriver**.

Part: G250-08387-22*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.

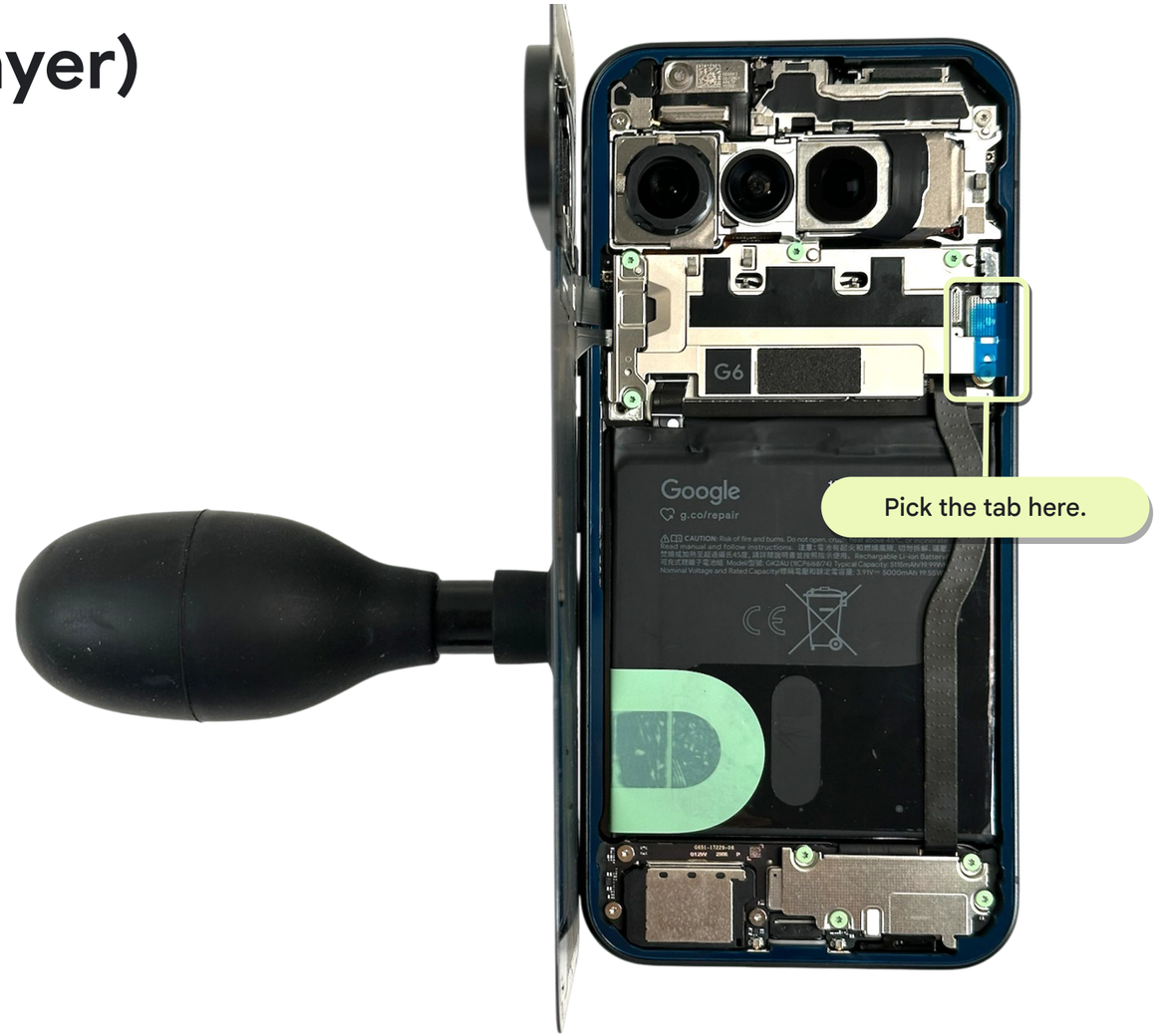
Remove the liner (second layer)

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 **D1 position** on the **universal base 12 mm**.
- Place the **Pixel 11 Pro XL 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 11 Pro XL BG press rubber**, as shown in **Fig 3**.

Note

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

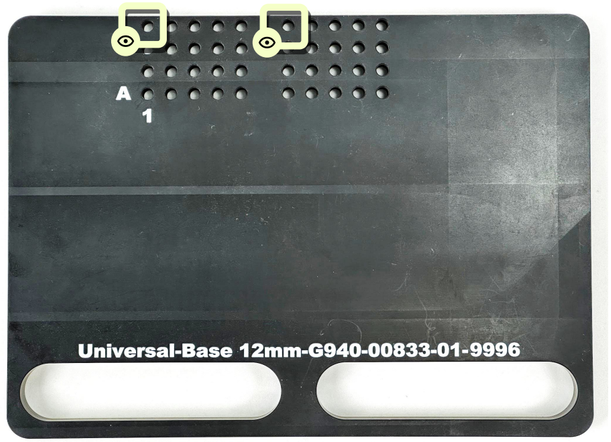


Fig 1



Fig 2

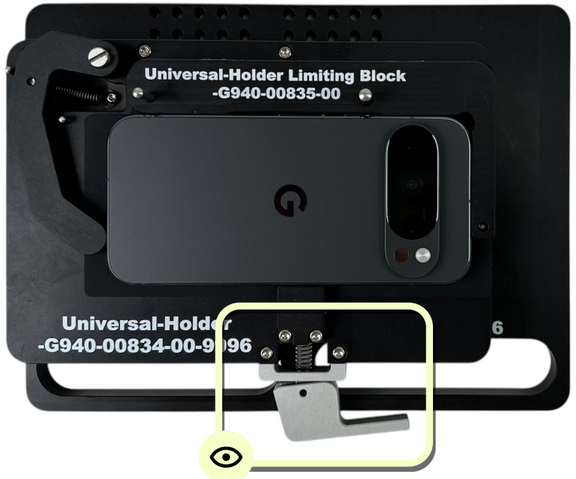
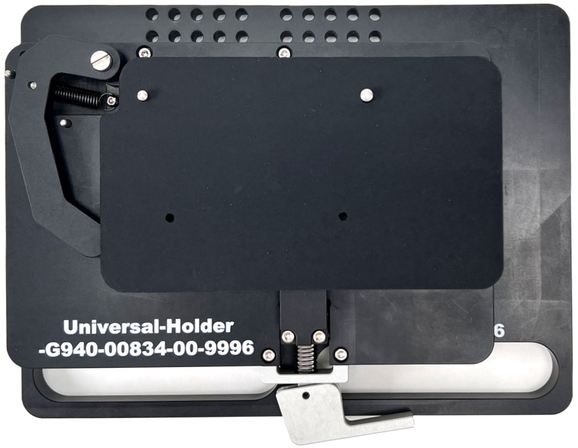


Fig 3



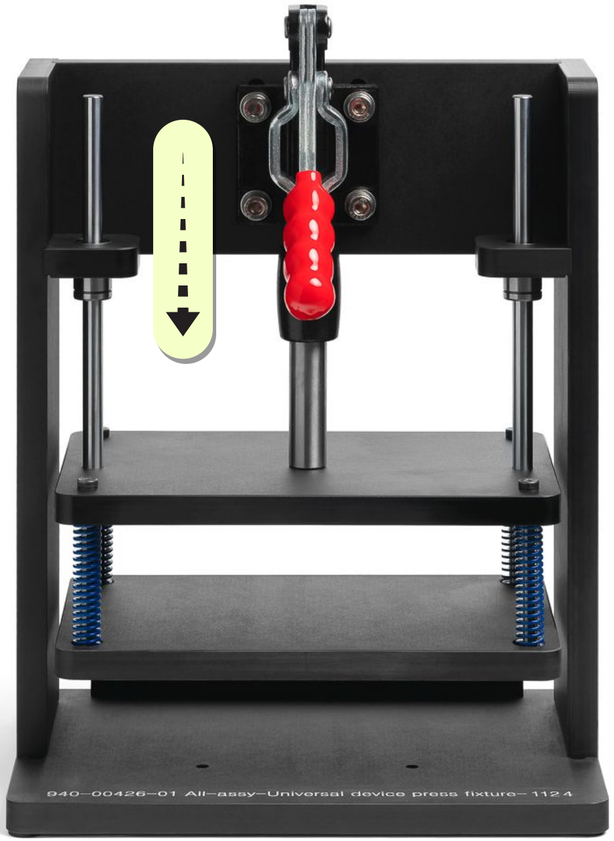
Prepare to press

- 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 **30 seconds**.
- Restore the handle to the original position and remove the device.

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

Fig 1





Pixel 11 Pro XL repair manual

Troubleshooting

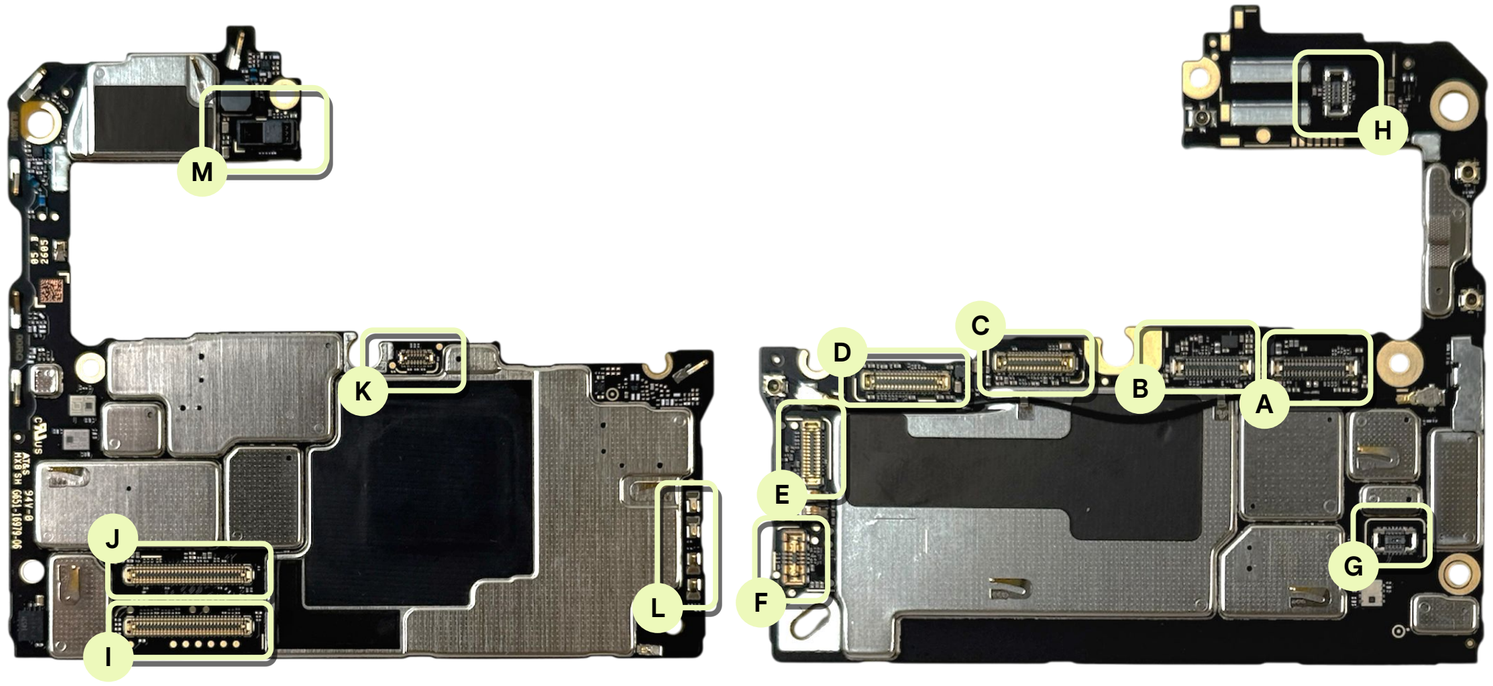
Sensor location
Connectors and feature location
Power
Wireless charge
Mic 1
Mic 2
Mic 3
Top speaker
Bottom speaker
Vibrator
Display
NFC
Proximity sensor
UDFPS
Rear camera
Front camera
USB-C
mmWave module

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	eLDI	O		
9	Magnetic		O	

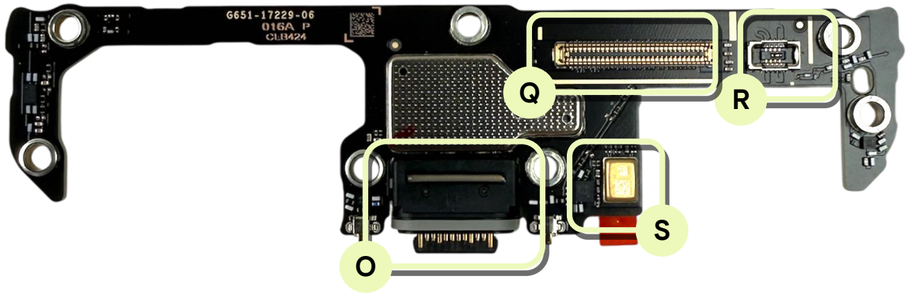
Connectors and feature location

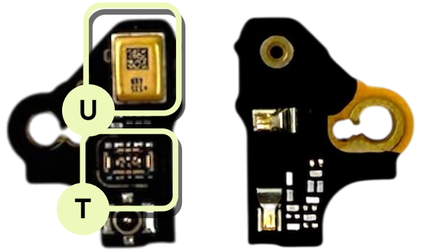
Location and description	
A	Rear camera tele connector
B	Front camera connector
C	Rear camera UW connector
D	Rear camera main connector
E	BG connector
F	Battery connector
G	RJ flex connector
H	mmWave module connector
I	CJ flex connector
J	DJ flex connector
K	TJ flex connector
L	Sidekey spring
M	P-sensor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

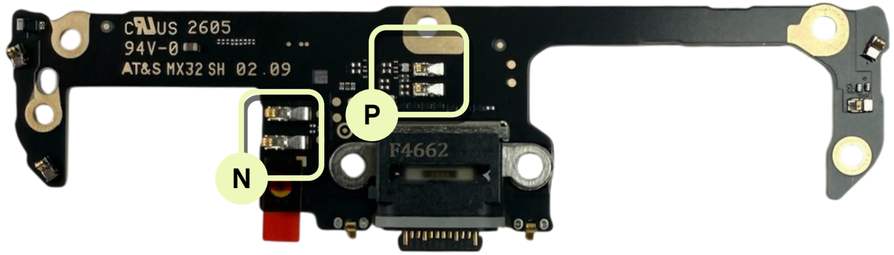


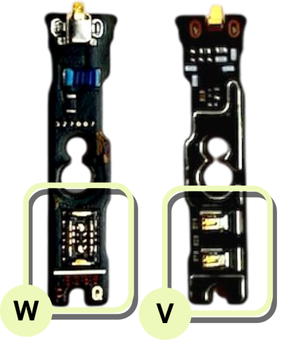
Connectors and feature location (continued)

Location and description	
N	Vibrator spring
O	USB port
P	Bottom speaker spring
Q	CJ flex connector
R	RJ flex connector
S	Mic 1
T	TJ flex connector
U	Mic 3
V	Top speaker spring
W	TJ flex connector





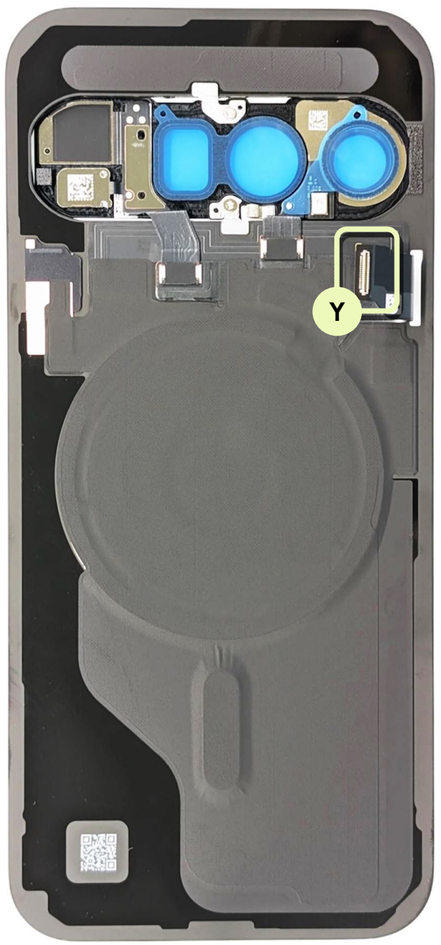




Connectors and feature location (continued)

Location and description	
X	DJ flex connector
Y	BG connector
Z	LDAF
a	Mic 2
b	Rainbow







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**.	
	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 test again.	**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 test again.	**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

Mic 1

Symptom	Potential root cause	Procedure
T010: mic 1 no sound **T011:** mic 1 low sound **T012:** mic 1 distorted sound	Assembly problem	• Disassemble the device, check if the **mic 1 bracket** is fully seated. • Check if the **chin board mic 1 liner** and the **enclosure mic 1 mesh liner** is removed. If it's removed, go to the next step. • Test audio again.
	Component issue	• Inspect whether the mic 1 component is damaged. • Use a good **chin board** and **enclosure** to cross check with original ones. • Replace the defective component.



1. Mic 1
2. Mic 2
3. Mic 3

Disassembly

- Chin board
- Enclosure

Mic 2

Symptom	Potential root cause	Procedure	
T013: mic 2 no sound **T014:** mic 2 low sound **T015:** mic 2 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 test again.	**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. Mic 1
2. Mic 2
3. Mic 3

Mic 3

Symptom	Potential root cause	Procedure	
T016: mic 3 no sound **T017:** mic 3 low sound **T018:** mic 3 distorted sound	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 test again.	**Connectors location**
	Assembly problem	• Check if the **enclosure mic 3 mesh liner** and the **ANT4 board mic 3 liner** are removed. If they aren't removed, go to the next step. • Test audio again.	
	Component issue	• Inspect whether the mic 3 component is damaged. • Use a good **TJ flex**, **ANT4 board**, and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • TJ flex • ANT4 board • Logic board



1. Mic 1
2. Mic 2
3. Mic 3

Top speaker

Symptom	Potential root cause	Procedure	
 **T019:** top speaker no sound **T020:** top speaker low sound **T021:** top speaker distorted sound	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**.	
	Connectivity issue	• Check the contact condition between the **TJ 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 **TJ flex**, **top speaker**, and **ANT4 board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • TJ 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 test again. **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 test again.	**Connectors location**
	Component issue	• Use a good **NFC board**, **TJ flex**, and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • TJ flex • NFC board • 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 test again.	**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 test again.	**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 test again. **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**.	
	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 test again. • Check if the connectivity between the **CJ flex connector** and the **logic board** is normal. If they aren't fully buckled, reassemble and then test again.	**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	
 **T105:** 5G_low_med_band_failure **T106:** 5G_high_band_failure	Damage	• Inspect the **mmWave module** for damage.	
	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 test again.	**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 11 Pro XL repair manual

Software

Software tools

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