Pixel 10

Repair manual

Version 1.1 , July 2025

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

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

Use caution if you engage in repair.

Opening or repairing your device could present electric shock, device damage, fire and personal injury risks, and other hazards. Before you service the product, read the full set of precautions in this document.

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 necessary skills and training to safely complete repairs.

Repair flows

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

Disassembly

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

Assembly

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

Troubleshooting and testing

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

Glossary

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

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Assembly

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

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- Front camera
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- mmWave module

Software

- Software tools

Revision history

Version	Date	Change description
V1.0	July, 2025	First release
V1.1	August,2025	1. Add “table of contents”, P4 2. Add torque spec. P12 3. Define the depth of opening pick in caution. P52 4. Add a Note,Undamaged and not dirty DAM foam can be reused. P108 5. Identify the area to apply IPA. P114 6. Modify wording. P124 7. Identify CG liner area. P156 8. Add shear PSA alignment line. P158 9. Add the direction of removing the white liner. P178 10. Correct screw GPN from G250-07891-04 to G250-07891-05. P200 11. Revise LDI quantity and photo. P15 12. Add new thermal grease (G160-01481-00). P26, P82, P124 13. Change battery assembly liner picture. P24, P178 14. Add one page for bottom speaker removal. P96 15. Change thermal graphite pictures. P108, P109

Pixel 10 repair manual

Precautions

Important: Before you begin

Be careful if you engage in repair

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

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

Make sure that there are no additional screws or small parts are left in the device after assembly and 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 device battery before you attempt repair.
- 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 keep the battery in a fire safe place 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 of the battery according to local regulations.

Use caution
Pixel 10 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.

Laser modules in this product comply with 21 CFR 1040.10 and 1040.11, except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.

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

Laser module:
Made in Austria. ams AG, Tobelbader Str. 30, 8141 Oberpremstätten, Austria.

Important: Before you begin

Use caution
Part handling – glass

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

Tools and fixtures

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

Use caution

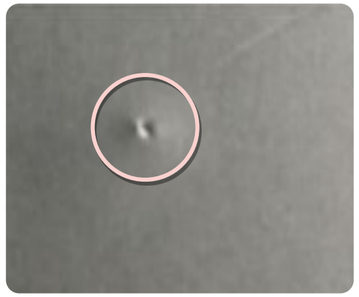
- We *don't* recommend that you perform repairs without the specified tools and fixtures.
- Improper use of tools and fixtures may result in injury to yourself, the user of the device or other third parties, along with damage to the product, tools, fixtures, replacement parts, or other spare parts.

Important: Before you disassemble the device

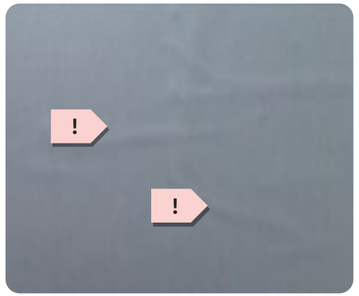
- *Disconnect the device from all power sources before any disassembly.*
- *Make sure that the battery is fully discharged before any disassembly.*
- *If the phone battery shows signs of swelling or damage, or if the phone feels hot or emits a strong odor, don't attempt disassembly. Please reach out 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 are not suitable for repair*

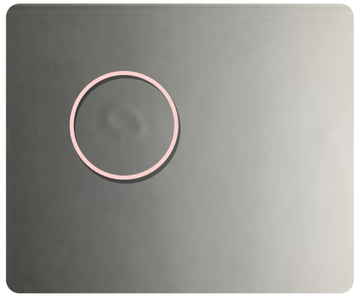


Pouch damage

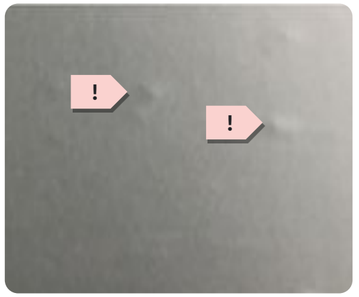


Line protrusion

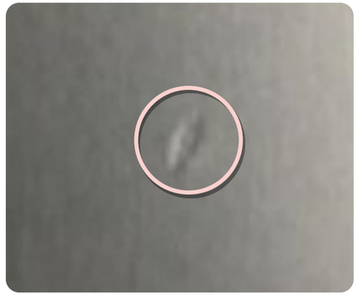
Scratch



Contamination mark

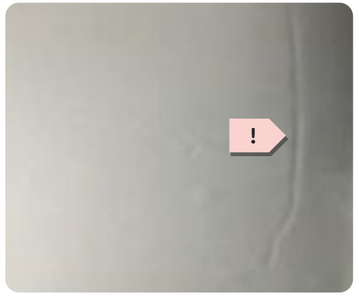


Dot protrusion

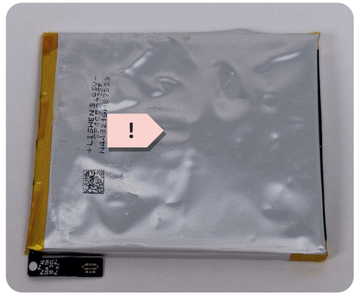


Dent

Bubbling



Imprinted line



Swelling or electrolyte leakage

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

Pixel 10 repair manual

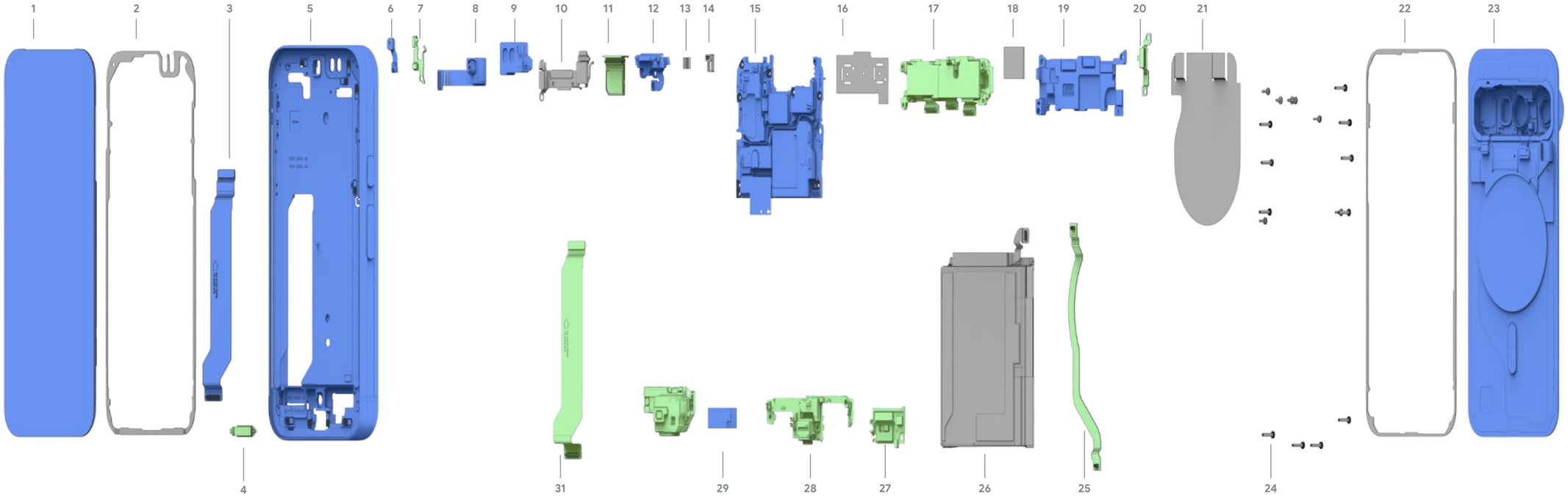
Introduction

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

Pixel 10: Expanded view

Reuse indications

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



Pixel 10 part ID

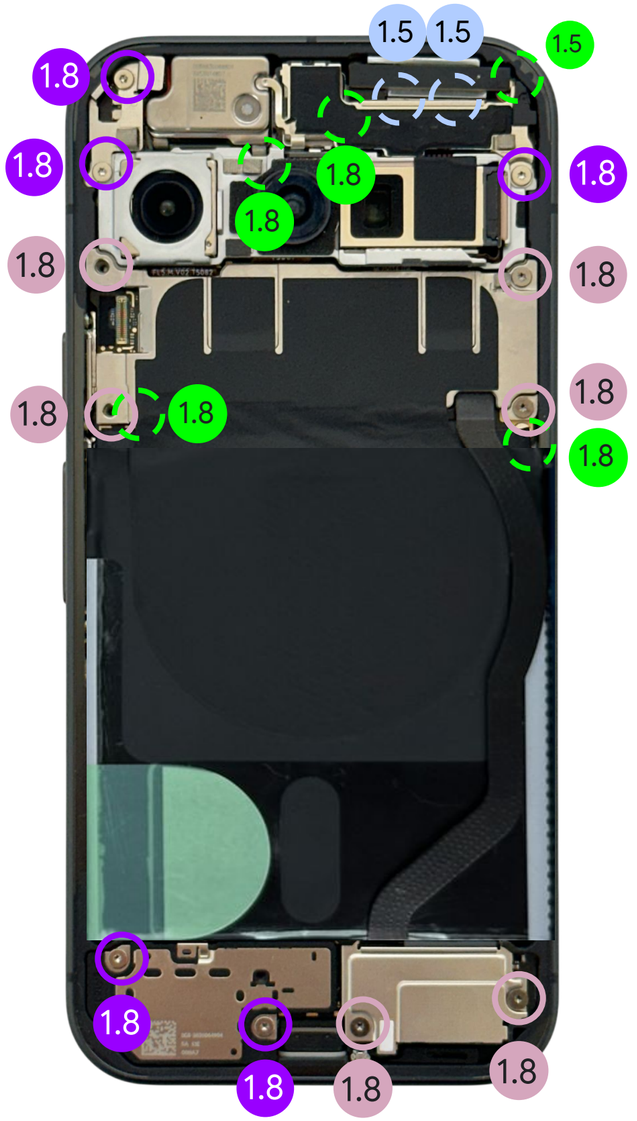
1	Display module	**8**	Front camera	**15**	Logic board	**22**	BG adhesive	**29**	Vibrator
2	Display adhesive	**9**	Top speaker	**16**	CU tape	**23**	BG sub	**30**	Bottom speaker
3	DJ flex	**10**	FCAM cowling	**17**	Rear camera	**24**	Screw	**31**	CJ flex
4	Display cowling	**11**	SIM tray_Sub 6	**18**	SOC TIM	**25**	RJ flex		
5	Enclosure	**12**	mmWave module	**19**	MLB cowling	**26**	Battery		
6	Mic3 flex	**13**	mmWave flex FoF	**20**	NFC cowling	**27**	CLB cowling		
7	Mic3 cowling	**14**	P-sensor foam	**21**	Graphite	**28**	Chin board		

Screw map

These are the screws used in the Pixel 10:

Screw G250-07856-02	Screw G250-07891-04	Screw G250-07891-05	Screw G250-07197-00

◯ - Not hidden ◌ - Hidden



⚠ Screws are a single use item

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

Torque Spec:
(1.5/1.8) ±0.05kgf-cm

After removal, always replace with a new screw

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

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, press the power button to power-on the device. *Don't* touch the device until it's fully booted into the user operating system.

Display touch calibration

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

Touch function

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

ESD protection

Electro Static Discharge (ESD) 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 the ESD mat, the person who repairs the device should wear 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.

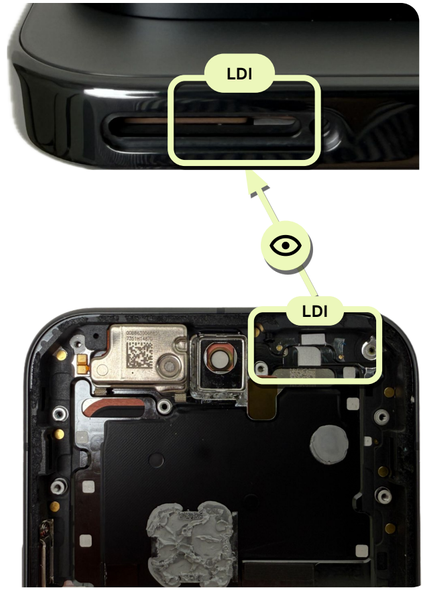
Did you know?

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.

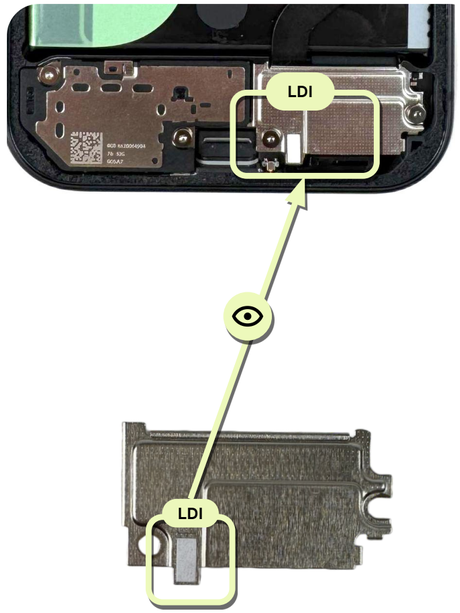
Liquid damage indicators

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

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



The SIM card tray slot on the enclosure is visible without disassembly of 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:
  - *To power off the phone, press and hold the power and volume up buttons for a few seconds. Then, tap **Power off** on screen.*
  - *For more information, see Google Help page.*

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

Turn the screen off and back on

- To turn the screen on and off 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 or 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 may result in injury to yourself, the user of the device or other third parties, as well as damage to the product, tools, fixtures, replacement parts, or other spare parts.

Tools and fixtures

Google-approved fixtures: Pixel 10

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

Universal press fixture
G940-00733-00

Universal disassembly fixture V3 - base
G940-00873-00
Alternate part numbers: G980-14551-00, G940-00734-00

Spare universal device clip #1
G940-00876-00

Universal press plate 12 mm
G940-00736-00

Universal holder
G940-00834-00

Universal base 12 mm
G940-00833-01

Universal holder limiting block
G940-00835-00

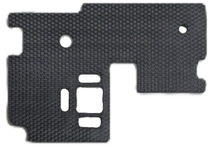
Universal supporting rubber
G940-00804-00

Pixel 10 battery press rubber
G940-01044-00

Pixel 10 BG press rubber
G940-01045-00

Pixel 10 CG press rubber
G940-01046-00

Pixel 10 thermal grease alignment fixture
G940-01049-00



Tools and fixtures

Standard tools

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

ESD wristband

ESD mat

ESD spudger

Plastic

ESD tweezers

Plastic

Opening pick

Plastic

Large suction cup

Approximately 5 cm diameter

Screwdriver

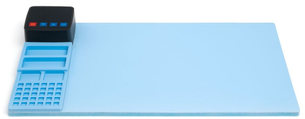
Hex shank torx plus bit 3

Adjustable torque screwdriver

Hex shank torx plus bit 3

SIM card ejection pin

Heat plate



Absorption-bulb

Small suction cup

Tools and fixtures

Standard consumables

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

IPA

3M AP111 primer

Sankol lubricant CFD 409Z_v2

Anti-static ESD gloves

Finger cots

Dust-free cotton swabs

Dust-free cloth

Protective film

Tools and fixtures

Safety items

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

Safety glasses

Heat resistant protective gloves

Cut resistant protective gloves

Nitrile or lint-free gloves

Sand bucket

Replacement parts

Important notice about replacement parts

- The use of Google-authorized replacement parts is strongly recommended.
- If Google-authorized replacement parts are not used then performance within product specifications can’t be assured.

Use caution

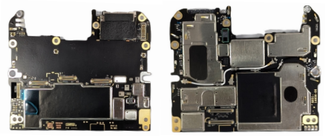
Use of replacement parts other than Google-authorized replacement parts, such as aftermarket batteries, may impact device safety, reliability, and performance.

Replacement parts

Reuse indications

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

Logic board
Multiple part numbers

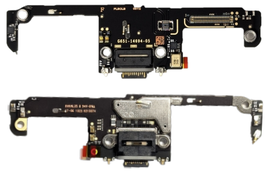


Display module
Multiple part numbers

BG sub
Multiple part numbers

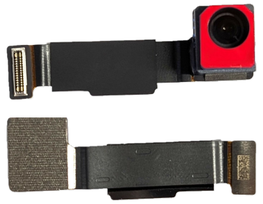
Enclosure
Multiple part numbers

Chin board
G949-01481-00

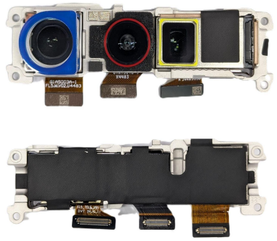


Front camera-mmWave
G949-01508-00

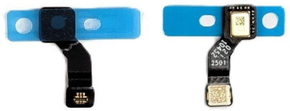
Front camera-sub6
G949-01482-00



Rear camera
G949-01483-00



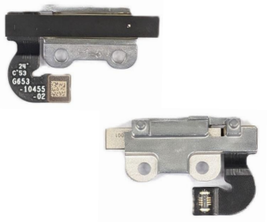
Mic3 flex
G949-01484-00



DJ flex
G949-01485-00

CJ flex
G949-01486-00

mmWave module
G949-01487-00



Replacement parts

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

Battery
Multiple part numbers

Display adhesive
G806-16008-01

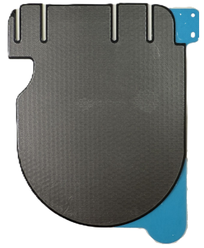
BG adhesive
G806-16039-01

P-sensor foam
G806-13064-01

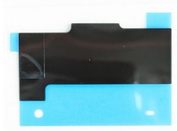
TIM pad
G806-13428-11

mmWave flex FoF
G806-15227-00

Graphite
G864-00999-21



CU tape
G806-13988-05



Vibrator
G710-07500-00

Bottom speaker
G863-00649-04

Top speaker
G863-00688-01

RJ flex
G652-10415-04

Replacement parts

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

SIM tray_sub 6
Multiple part numbers

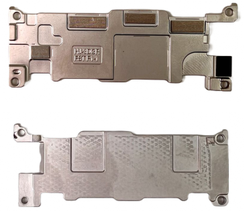
CLB cowling
G730-09460-11

Mic3 cowling
G730-10268-00

NFC cowling
G730-09357-21

FCAM cowling
G730-10188-00

MLB cowling
G730-09355-21



Display cowling
G730-10011-13

Screw
G250-07856-02

Screw
G250-07891-04

Screw
G250-07891-05

Screw
G250-07197-00

Thermal pad
G864-01089-00

Replacement parts

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

IC flex shim
G806-14220-01

Thermal grease*
*Material expires

G160-01459-00
G160-01481-00

Top speaker adhesive
G806-13436-02

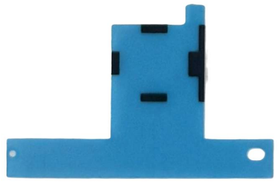
FCAM CPSA
G806-13421-01

Vibrator PSA
G806-13155-00

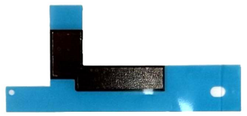
DJ shear PSA
G806-14931-01

Mic3 mesh
G806-14494-00

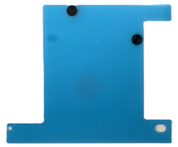
DAM foam
G806-15122-12



Nanocrystal tape
G806-15190-00



Coaxial cable shim
G806-15390-01



Battery flex PSA
G806-17443-00

Thermal graphite
G864-01154-01

Replacement parts

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

FoF

G806-14328-00

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, 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 isn't 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
UW	Ultra Wide

Glossary

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

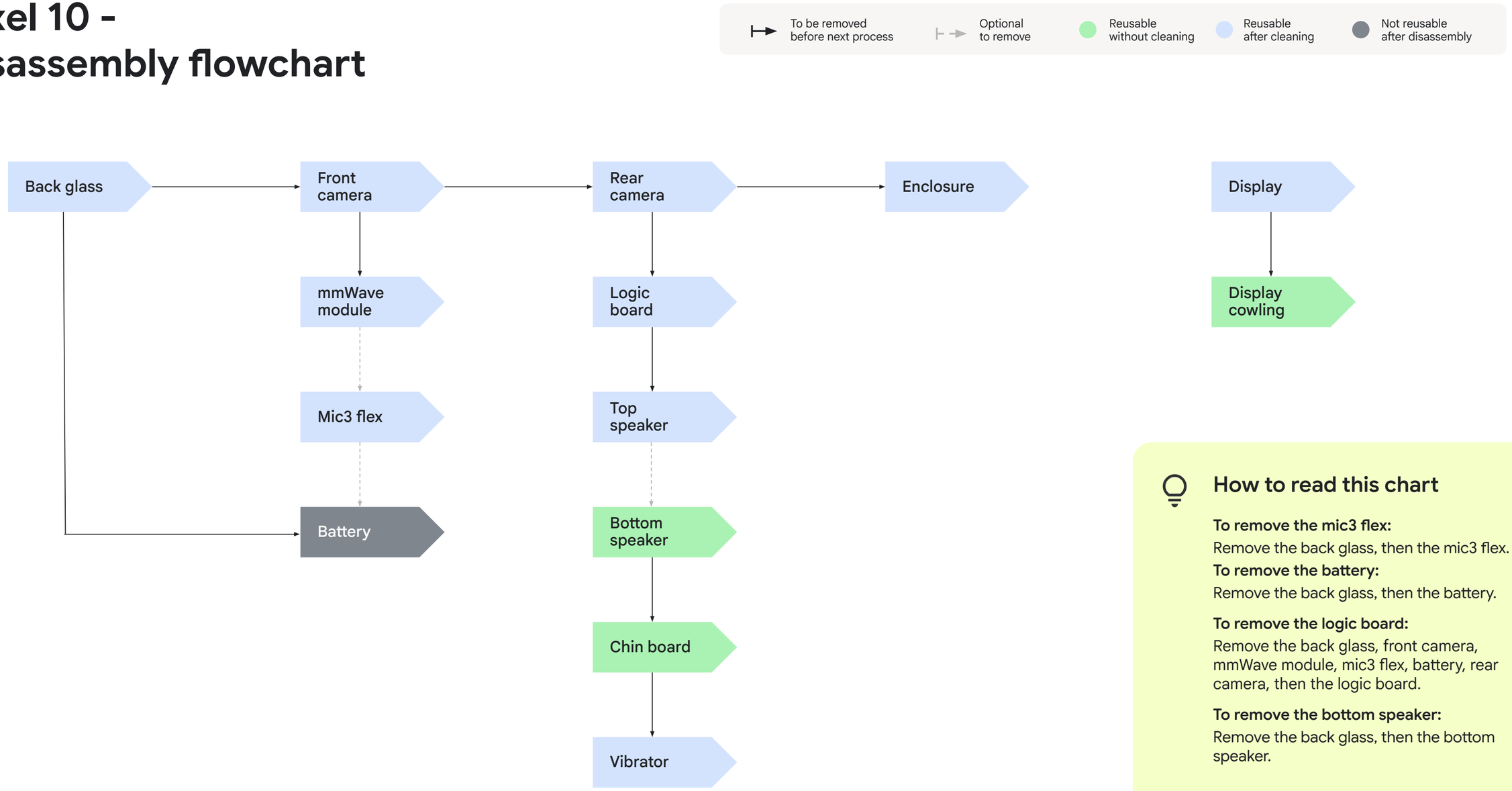
Pixel 10 repair manual

Repair flows

Disassembly order

Assembly order

Pixel 10 - disassembly flowchart



How to read this chart

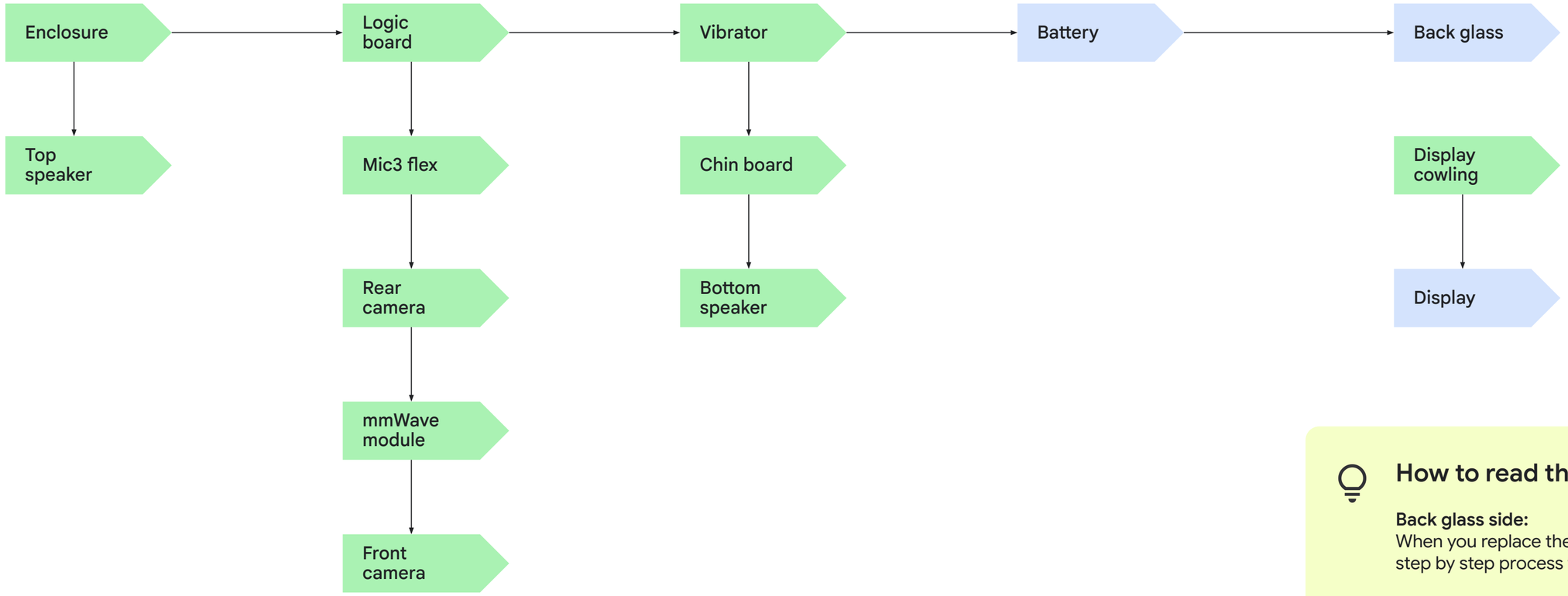
To remove the mic3 flex:
Remove the back glass, then the mic3 flex.

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

To remove the logic board:
Remove the back glass, front camera, mmWave module, mic3 flex, battery, rear camera, then the logic board.

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

Pixel 10 - assembly flowchart



How to read this chart

Back glass side:
When you replace the enclosure, follow the step by step process to reinstall.

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

Pixel 10 repair manual

Disassembly

Display

BG sub

Front camera

mmWave module

Mic3 flex

Battery

Rear camera

Logic board

Top speaker

Bottom speaker

Chin board

Vibrator

Enclosure

Disassembly instructions

Display

The display module is connected to the chin board. 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, make sure to **power off** the device and disconnect any charging cables.

Tools

- Heat plate
- Universal disassembly fixture V3
- Universal base 12 mm
- Universal holder
- Universal holder limiting block
- Universal press plate 12 mm
- Universal press fixture
- Pixel 10 BG press rubber
- Pixel 10 CG press rubber
- Absorption-bulb
- ESD tweezers
- ESD spudger
- 3M AP111 primer
- Dust-free cotton swabs
- IPA and cloth

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

Multiple part numbers

Display cowling

G730-10011-13

Display adhesive

G806-16008-01

DJ shear PSA

G806-14931-01

Soften the adhesive

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

Use caution

The heat plate is hot and can cause burns.

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

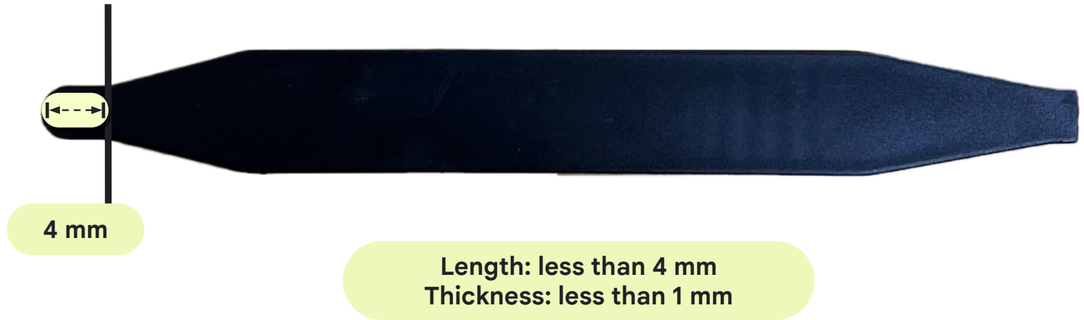
Review all **safety precautions** before you begin work.

Note

Don't heat the visor area.

Mark the ESD spudger

- Use the ESD spudger to carefully separate the **display** from the **enclosure**.
- Measure **4 mm** from the tip and mark the **ESD spudger** with a permanent marker for reference, to make sure that there's clear visibility as adhesive widths vary.



Use caution

Avoid deep insertion that may damage the device.

Use fixture

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

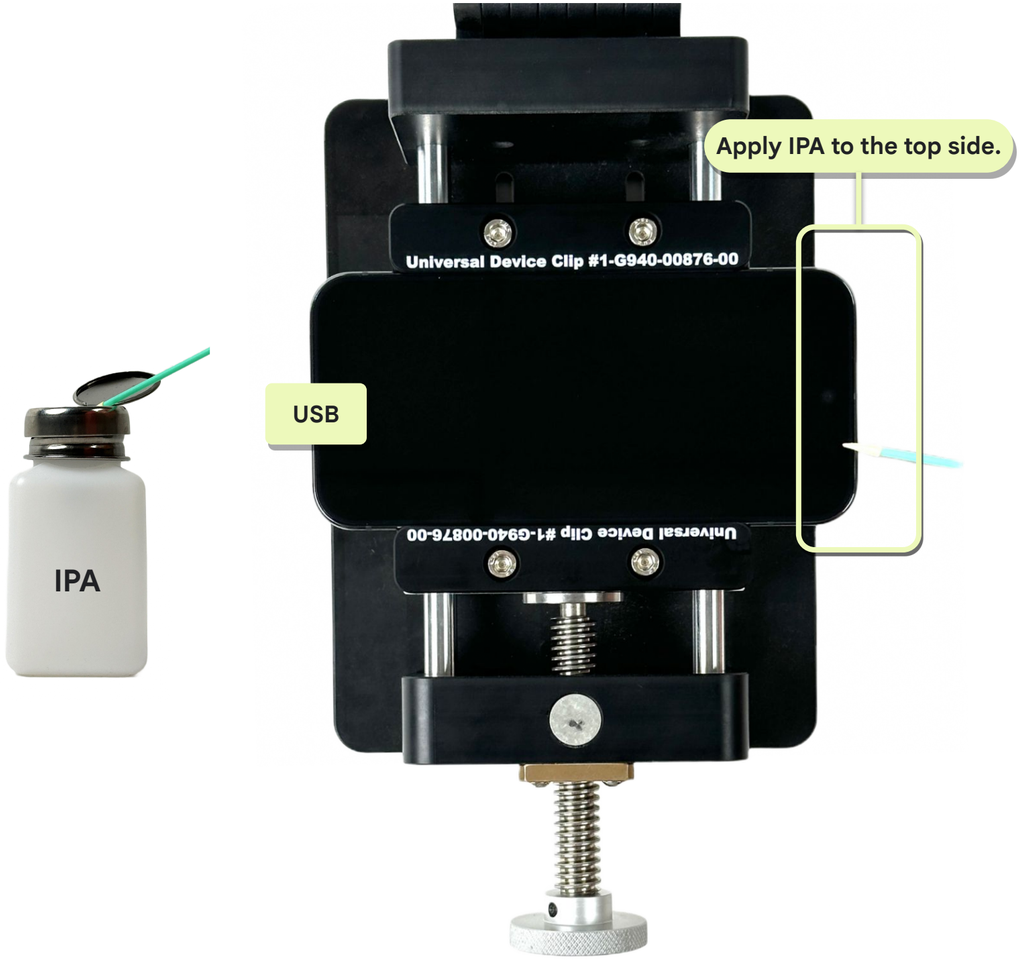
> **Note**
>
> Remove the display front protective film to attach the suction cup.
>
> A groove prevents accidental pressing of the power button.

Fig 1

Fig 2

Prepare for disassembly

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

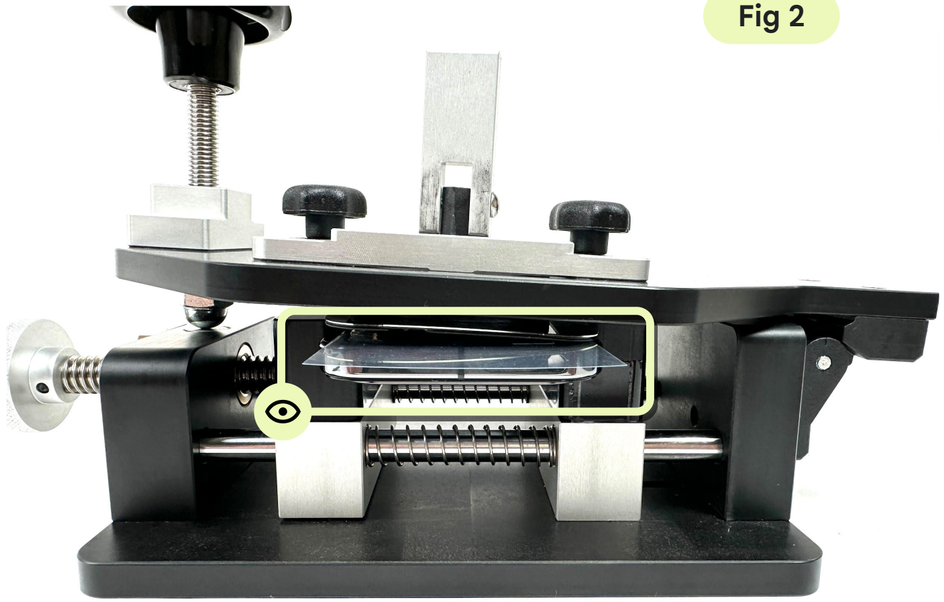


Separate the display

- 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**.
- Use the **ESD spudger** with **IPA** to cut the adhesive off the top side when there's a gap.
- 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 a protective liner to broken glass before removal.

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

Separate the display adhesive

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

Use caution

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

Insert the ESD spudger ***no* further than 4 mm**.

Disassembly sequence

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

To prevent the adhesive from sticking back, avoid to remove the release liner.

Fig 1

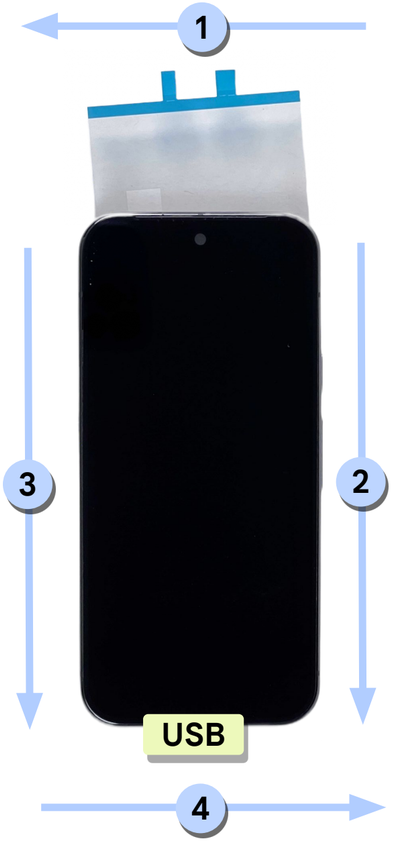
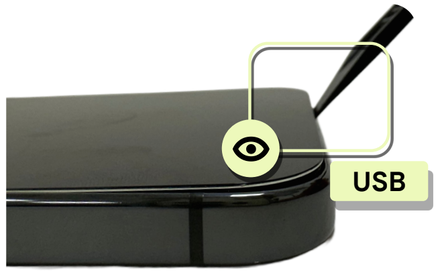


Fig 2

Fig 3



Prop the display

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

⚠ Use caution

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

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

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

Remove the cowling

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

Part: G730-10011-13 (display cowling)

Note

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

Finished! Want assembly instructions? ➜

Disconnect the display

- Detach the **display connector** with the **ESD spudger**.
- Slowly peel off the **DJ shear PSA** manually by pulling the DJ flex toward the display connector.
- Remove the **display module**.

Part: multiple part numbers (display module)

Part: G806-14931-01 (DJ shear PSA)

Note

Use the ESD spudger to avoid damage to the components.

Disassembly instructions

BG sub

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

Use caution

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

Prerequisites

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

Tools

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

Required parts

BG sub

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

Reuse indications

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

BG sub

Multiple part numbers

NFC cowling

G730-09357-21

BG adhesive

G806-16039-01

Screw

G250-07891-05

Mark the opening pick

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

Use caution

Ensure proper marking to minimize damage.

A thicker opening pick may crack the back glass.

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

Apply the small suction cup

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

Separate the BG

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

Note

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

Separate the BG adhesive

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

Disassembly sequence

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

Use caution

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

Remove the NFC cowling

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

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

Part: G730-09357-21 (NFC cowling)

Use caution

Be careful when you use the screwdriver.

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

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

Note

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

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

Finished! Want assembly instructions? ➜

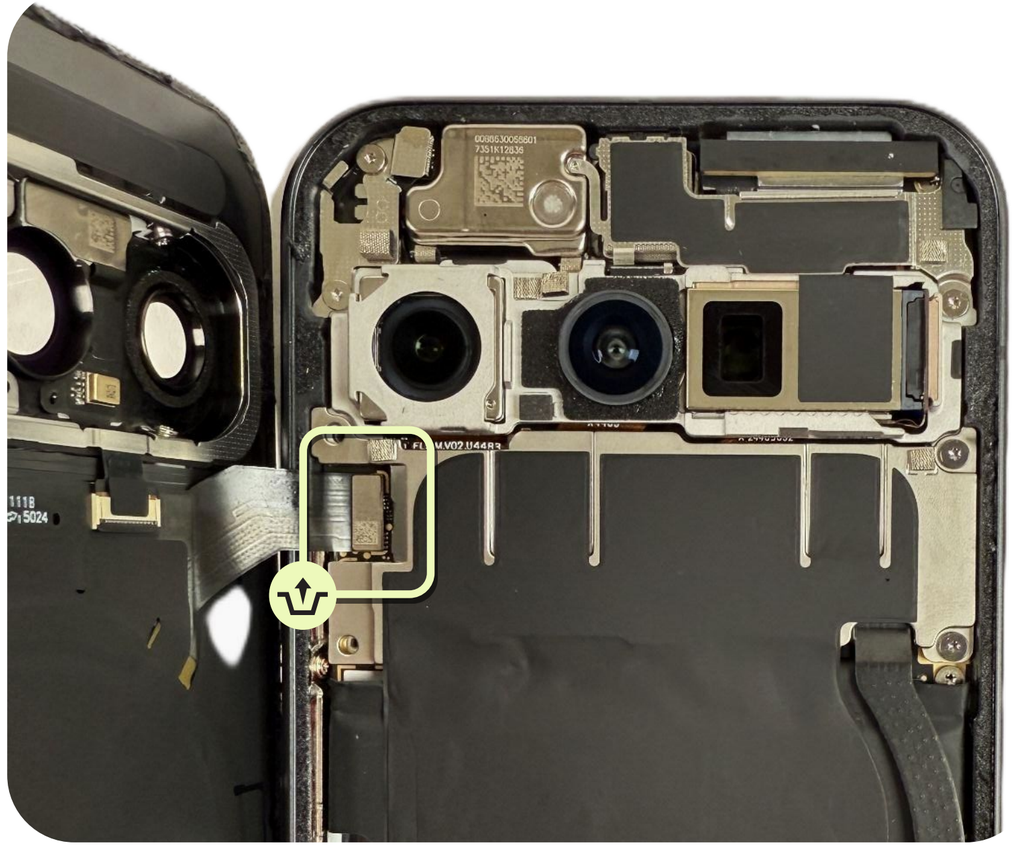
Remove the BG sub

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

Part: multiple part numbers (BG sub)

Note

Use the ESD spudger to avoid damage to the components.



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

Reuse indications

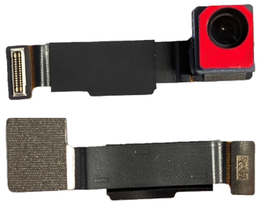
- Reusable without cleaning
- Reusable after cleaning
- Not reusable after disassembly

Front camera

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

Front camera-mmWave
G949-01508-00

Front camera-sub6
G949-01482-00



FCAM cowling
G730-10188-00

FCAM CPSA
G806-13421-01

Screw
G250-07891-04

Remove the screw

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

Part: G250-07891-04 (screw)

Use caution

Be careful when you use the screwdriver.

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

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

Note

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

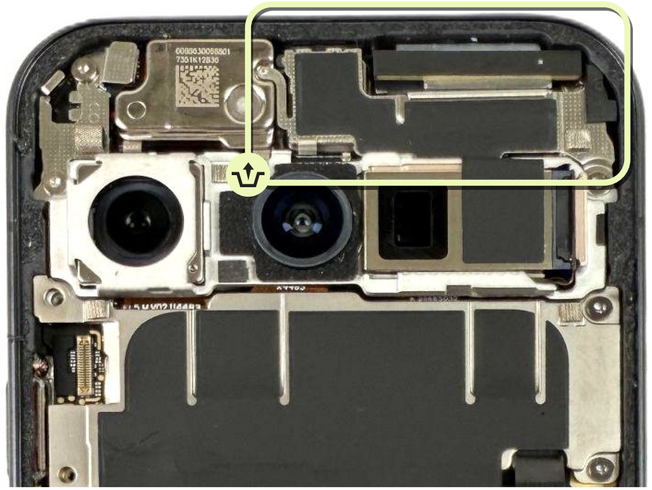
Remove the FCAM cowling

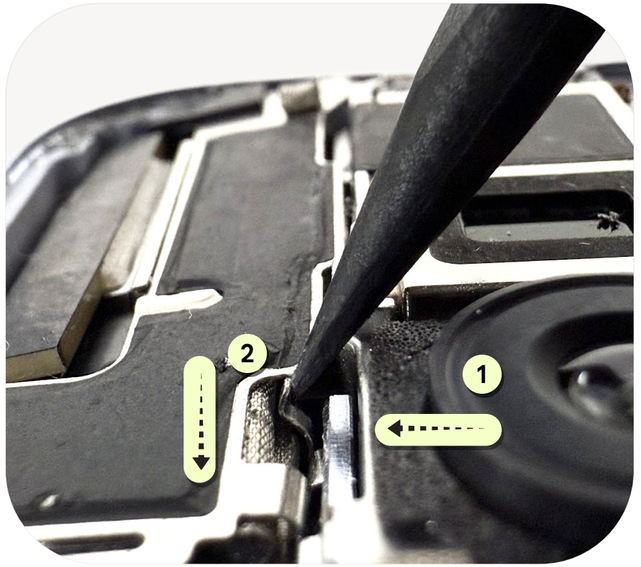
- Hold the **ESD spudger** against the hook.
- Push the **FCAM cowling** upward to remove the **FCAM cowling**.

Part: G730-10188-00 (FCAM cowling)

Note

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





Finished! Want assembly instructions? ➜

Remove the front camera

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

Part: G949-01508-00 (front camera-mmWave)

Part: G949-01482-00 (front camera-Sub6)

⚠ Use caution

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

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

Disassembly instructions

mmWave module

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

Use caution

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

Prerequisites

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

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

Tools

Torx plus 3IP screwdriver

ESD spudger

ESD tweezers

IPA and cloth

Required parts

mmWave module

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

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

mmWave module
G949-01487-00

mmWave FoF
G806-15227-00

Screw
G250-07197-00

Thermal pad
G864-01089-00

Disconnect the mmWave

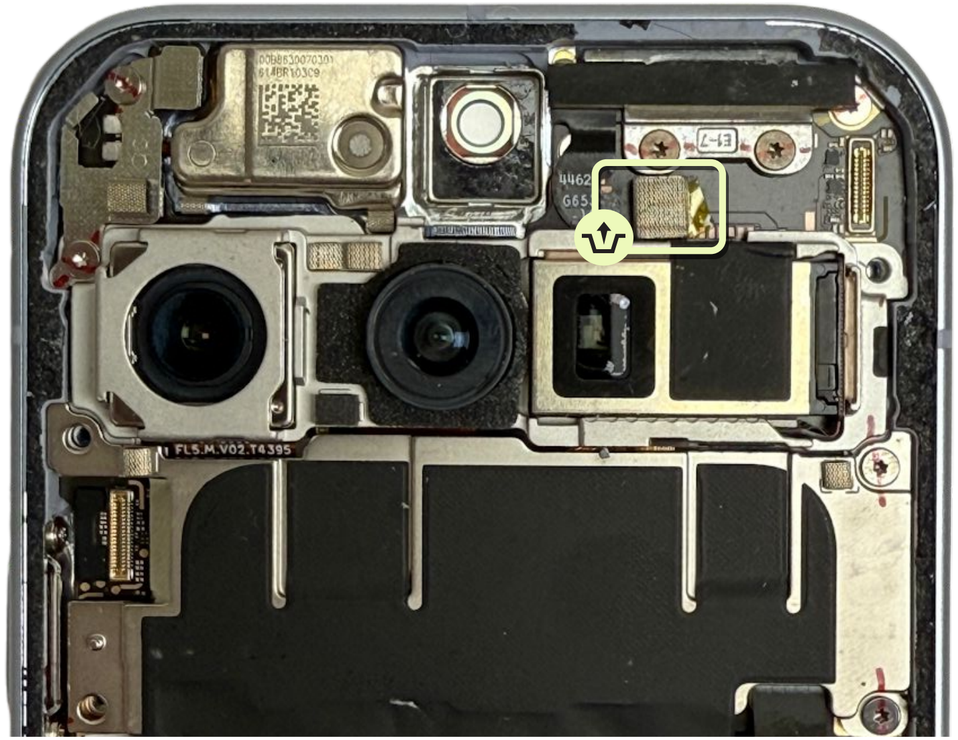
- Remove **mmWave flex FoF** with the **ESD tweezers**.
- Detach the **mmWave module connector** with the **ESD spudger**.

Part: G806-15227-00 (mmWave flex FoF)

Note

This step is only present in the mmWave SKU.

Use the ESD spudger to avoid damage to the components.



Finished! Want assembly instructions? ➜

Remove the mmWave module

- Remove the **two mmWave module screws** with a **torx plus 3IP screwdriver**.
- Remove the **mmWave module** with **ESD tweezers**.

Part: G250-07197-00* 2 (screw)

Part: G949-01487-00 (mmWave module)

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.**

This step is only present in the mmWave SKU.

Disassembly instructions

Mic3 flex

Use caution

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

Prerequisites

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

- **BG sub**

Tools

Torx plus 3IP screwdriver

ESD tweezers

ESD spudger

IPA and cloth

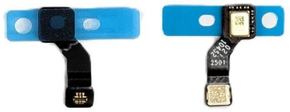
Required parts

Mic3 flex

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

Here's the list of parts for the mic3 flex disassembly:

Mic3 flex
G949-01484-00



Mic3 cowling
G730-10268-00

Mic3 mesh
G806-14494-00

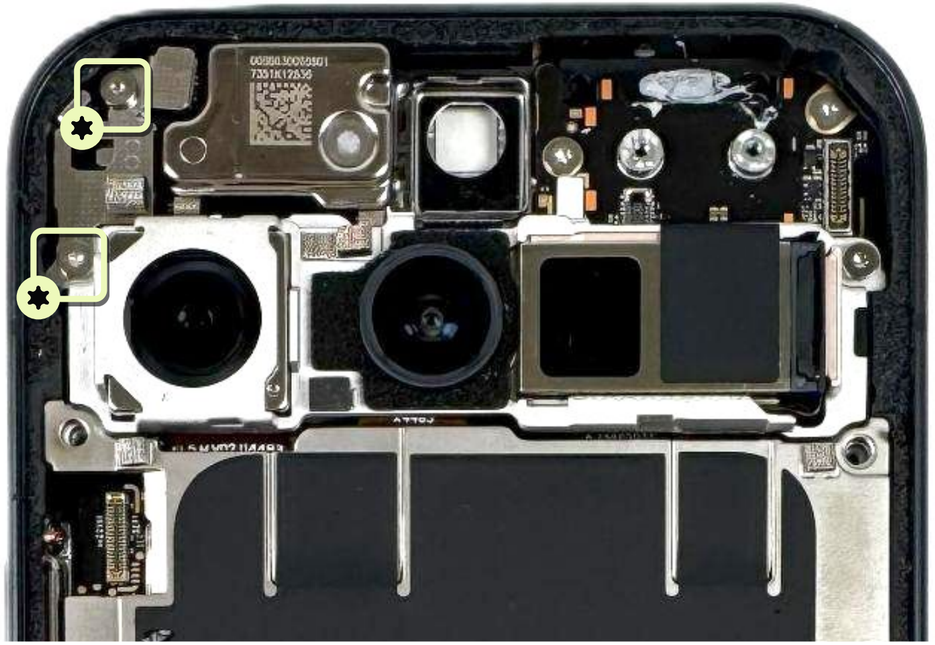
Screw
G250-07891-04

Remove the mic3 cowling

- Remove **two mic3 cowling screws** with the **torx plus 3IP screwdriver**.
- Remove the **mic3 cowling** with **ESD tweezers**.

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

Part:G730-10268-00 (mic3 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

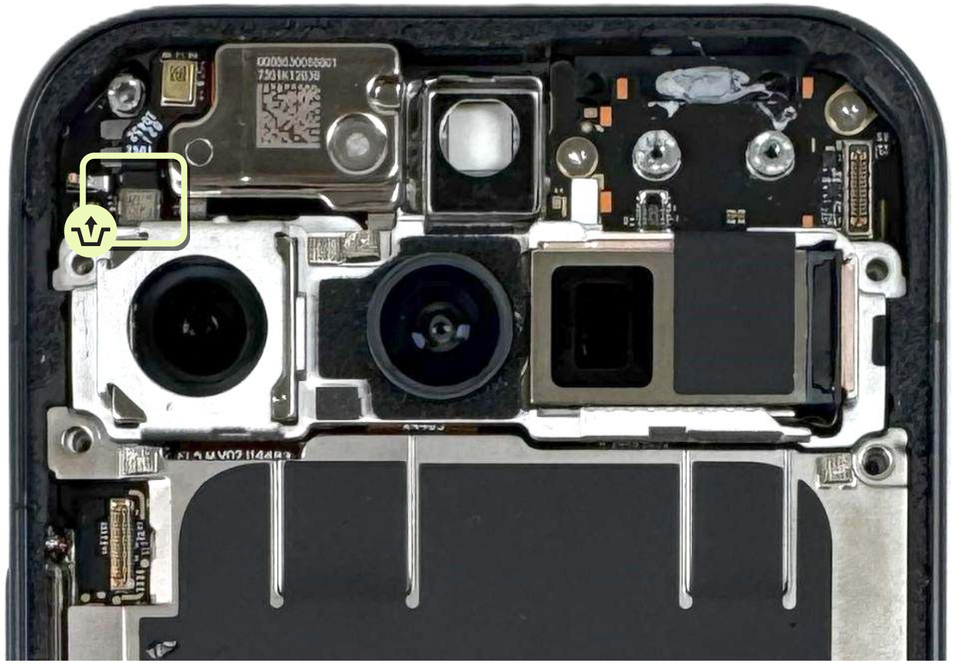
***Don't* reuse the screws.**

Finished! Want assembly instructions? ➜

Remove the mic3 flex

- Detach the **mic3 flex connector** with the **ESD spudger**.
- Remove the **mic3 flex** with **ESD tweezers**.

Part: G949-01484-00 (mic3 flex)



Note

Use the ESD spudger to avoid damage to the components.

Disassembly instructions

Battery

Use caution

Use caution if you engage in repair.

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

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

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

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

Disassembly instructions

Battery

It's recommended to use a wrap to remove the battery.
If you use other methods, it may 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
- Universal supporting rubber
- Pixel 10 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

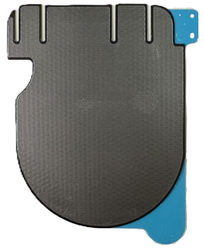
Battery

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

Battery
Multiple part numbers

TIM pad
G806-13428-11

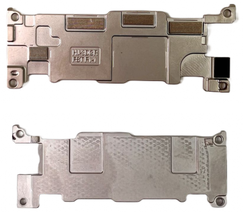
Graphite
G864-00999-21



RJ flex
G652-10415-04

CLB cowling
G730-09460-11

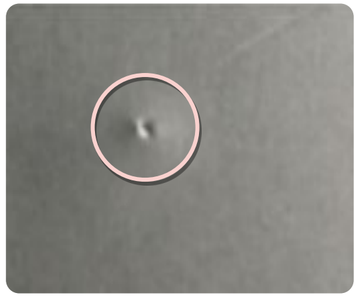
MLB cowling
G730-09355-21



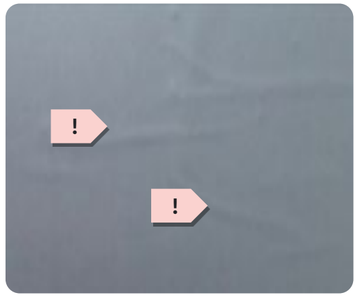
Screw
G250-07891-05

Caution ⚠

Examples of unacceptable battery conditions that are not suitable for repair

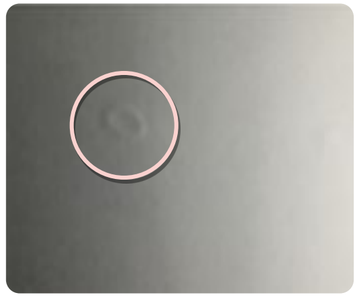


Pouch damage

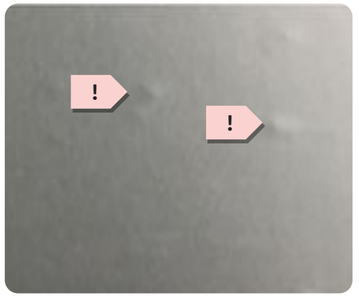


Line protrusion

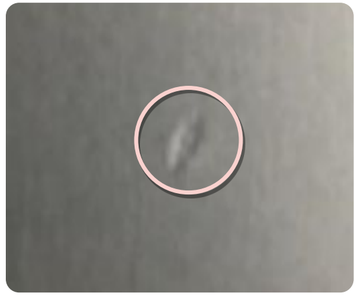
Scratch



Contamination mark

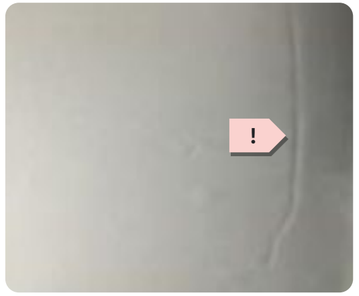


Dot protrusion

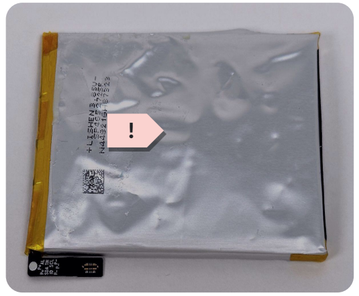


Dent

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 screws

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

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

Use caution

Be careful when you use the screwdriver.

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

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

Note

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

Remove MLB cowling

- Remove the **MLB cowling** and **graphite** with your **hand** to slowly tear off graphite from the battery as shown in Fig 1.
- Detach the **battery connector** with the **ESD spudger** as shown in Fig 2.

Part: G730-09355-21 (MLB cowling)

Part: G864-00999-21 (graphite)

Part: G806-13428-11 (TIM pad)

Note

***Don't* reuse the graphite and TIM pad.**

Fig 1

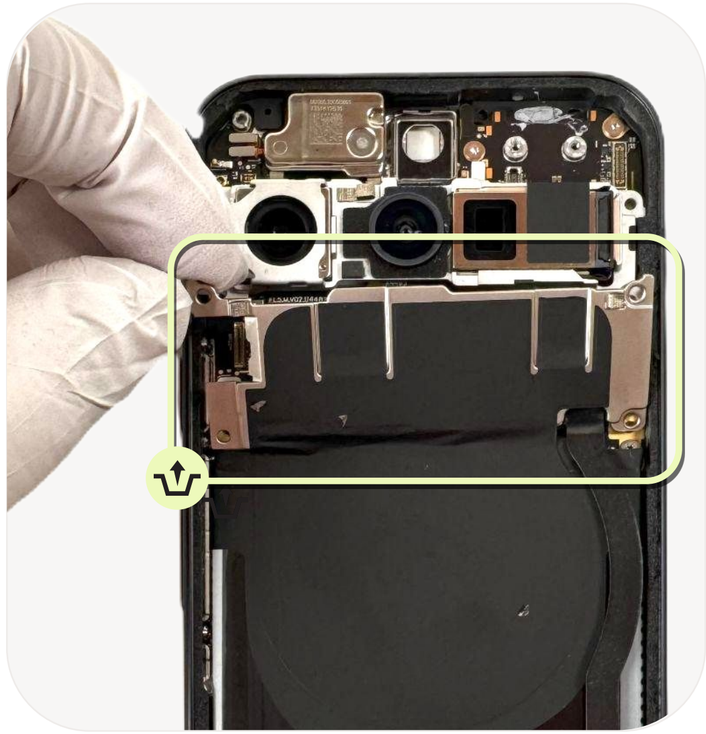


Fig 2

Remove CLB cowling

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

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

Part: G730-09460-11 (CLB cowling)

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 connector** with the **ESD spudger**.
- Remove the **RJ flex**.

Part: G652-10415-04 (RJ flex)

Note

Use the ESD spudger to avoid damage to the components.

Remove the battery

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

Part: multiple part numbers (battery)

Use caution

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

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

Fig 1

Fig 2

Finished! Want assembly instructions? →

Remove the battery

- Hold the device securely with your left hand, with the **left thumb located near the lower bottom speaker**. Grab the green battery tab with 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 it until you hear the adhesive break.
- Tear battery completely from the back side of the wrap as shown in **Fig 3.**
- When you hold the battery, slowly peel the battery wrap away from the enclosure as shown in **Fig 4.**
- Carefully remove and dispose of the **battery and battery wrap** safely.

Part: multiple part numbers (battery)

Fig 1

Fig 2

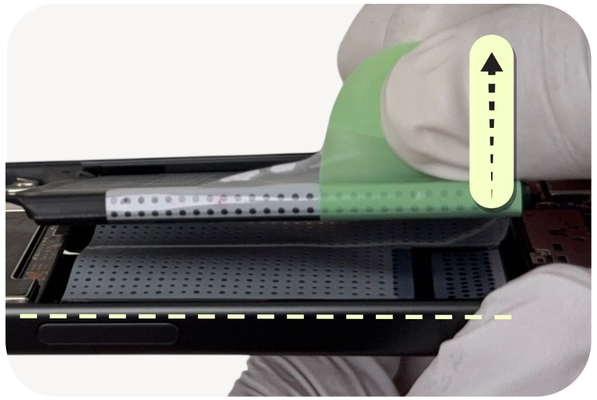


Fig 3

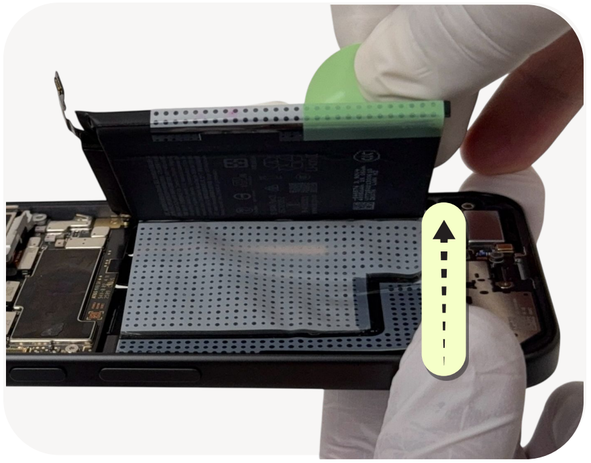
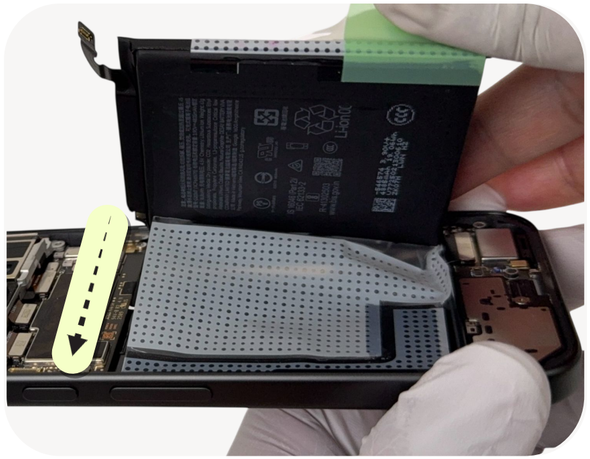


Fig 4



Use caution

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

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

Note

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

Pull the left side of the wrap **perpendicularly** to the device to remove the battery.

Disassembly instructions

Rear camera

The rear camera module carries all the rear cameras. It's not possible to replace a single camera and lens.

Use caution

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

Prerequisites

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

- **BG sub**
- **Front camera**
- **Mic3 flex**

Tools

ESD spudger

ESD tweezers

IPA and cloth

Required parts

Rear camera

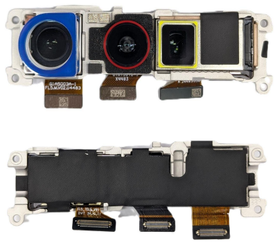
Here's the list of parts for the rear camera disassembly:

Reuse indications

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

Rear camera

G949-01483-00



Finished! Want assembly instructions? ➜

Remove the rear camera

- Detach the **three rear camera connectors** with the **ESD spudger** as shown in Fig 1.
- Remove the **rear camera** with **ESD tweezers** as shown in Fig 2.

Part: G949-01483-00 (rear camera)

Use caution

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

Note

Use the ESD spudger to avoid damage to the components.

Fig 1

Fig 2

Disassembly instructions

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**
- **Front camera**
- **mmWave module**
- **Mic3 flex**
- **Rear camera**

Tools

Pixel 10 thermal grease alignment fixture

Torx plus 3IP screwdriver

ESD spudger

ESD tweezers

SIM card ejection pin

IPA and cloth

Dust-free cotton swabs

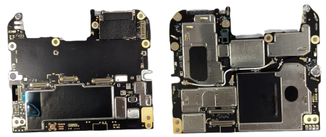
Required parts

Logic board

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

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

Logic board
Multiple part numbers



DJ flex
G949-01485-00

CJ flex
G949-01486-00

P-sensor foam
G806-13064-01

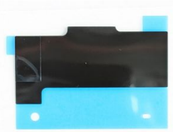
SIM tray_sub 6
Multiple part numbers

Screw
G250-07856-02

*Material expires

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

CU tape
G806-13988-05



Battery flex PSA
G806-17443-00

Remove the screws

Remove the **five logic board screws** with the **torx plus 3IP screwdriver**.

Part: G250-07856-02*5 (screw)

Use caution

Be careful when you use the screwdriver.

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

Note

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

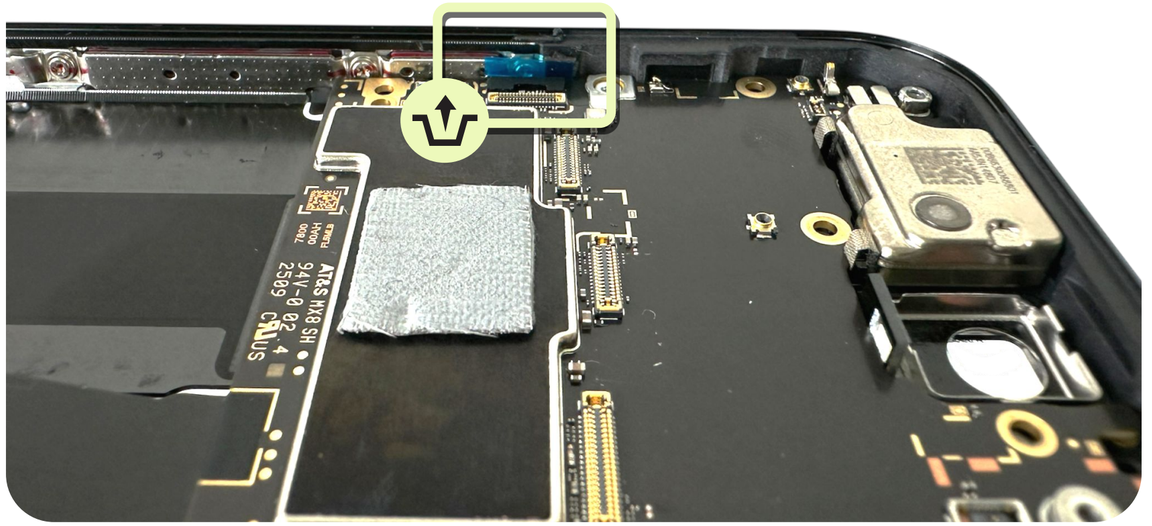
Remove the IC flex shim

Remove the **IC flex shim** with **ESD spudger** from the enclosure.

Part: G806-14220-01 (IC flex shim)

Use caution

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



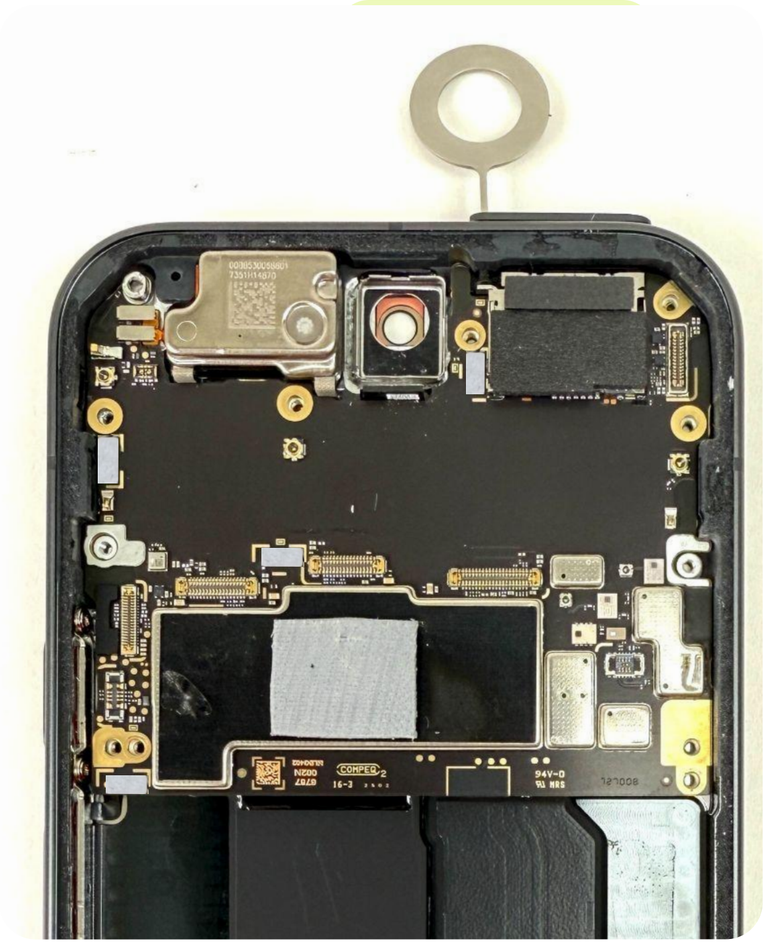
Remove the SIM tray

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

Part: multiple part numbers (SIM tray)

Note

This step is only present in the sub6 SKU.



Lift the logic board up

Pry up the **logic board** with the **ESD spudger** from the lower right corner side.

Part: multiple part numbers (logic board)

Use caution

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

Note

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

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

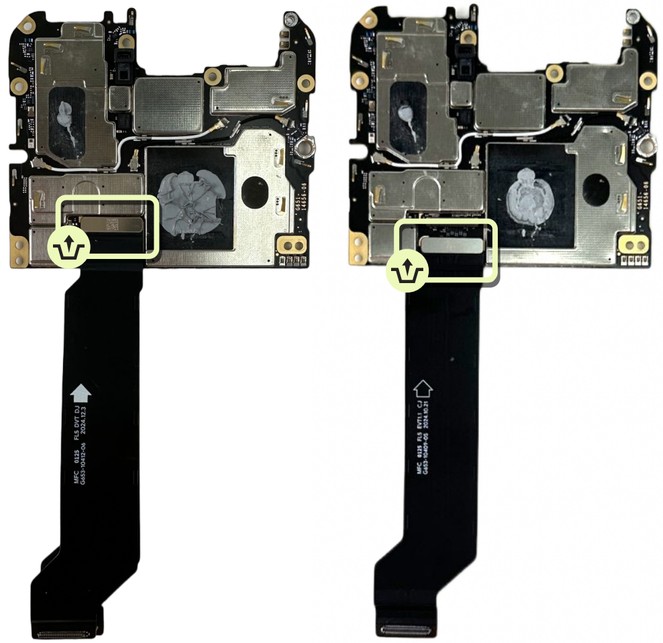
Remove the logic board, CJ flex, and DJ flex

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

Part: multiple part numbers (logic board)

Part: G949-01485-00 (DJ flex)

Part: G949-01486-00 (CJ flex)



Caution

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

Note

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

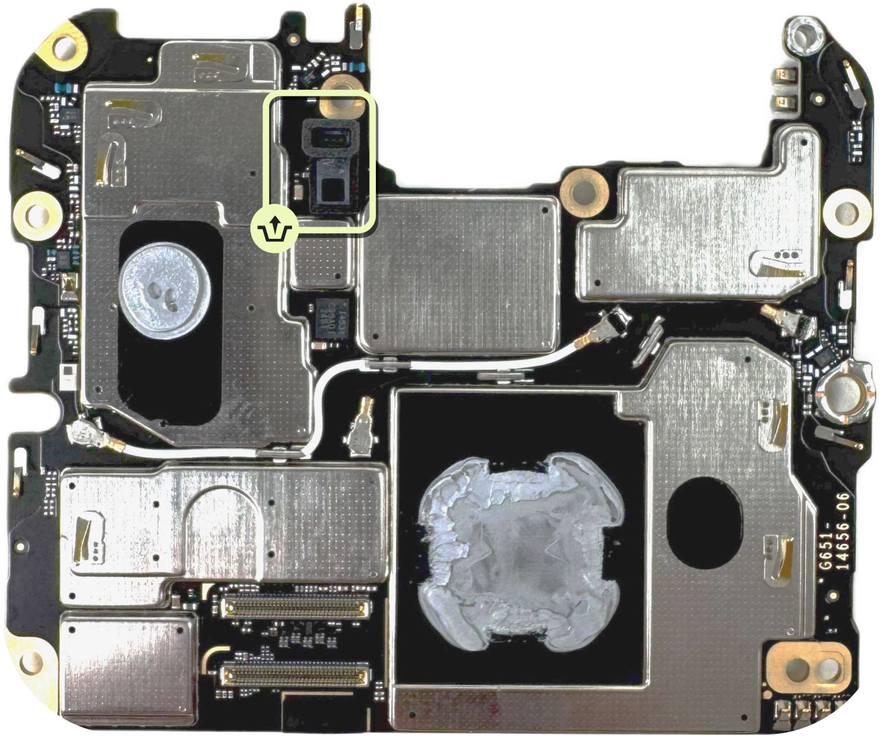
Use the ESD spudger to avoid damage to the components.

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

Top speaker

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

Use caution

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

Prerequisites

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

- **BG sub**
- **Front camera**
- **mmWave module**
- **Mic3 flex**
- **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

G863-00688-01

Top speaker PSA

G806-13436-02

Finished! Want assembly instructions? ➜

Remove the top speaker

- Insert the **ESD spudger** between the **top speaker** and the **FCAM bracket**.
- Gently pry the **top speaker** until a gap appears.
- Insert the **ESD spudger** into the gap and remove the **top speaker**.

Part: G863-00688-01 (top speaker)

> ⚠ **Use caution**
>
> *Don't* deform the FCAM bracket when you pry.

Fig 1

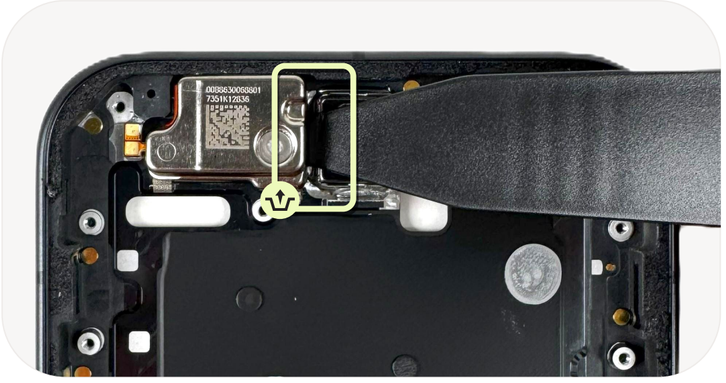
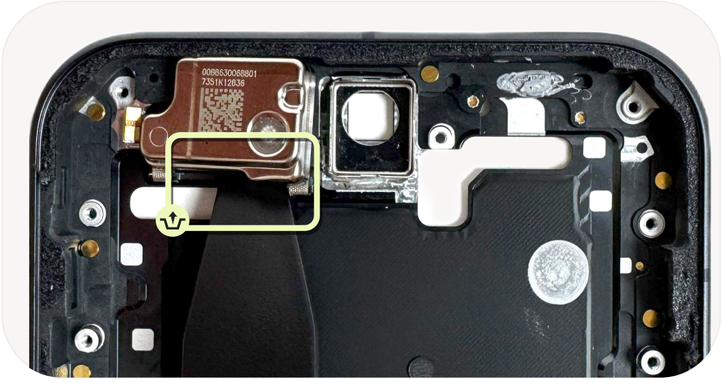
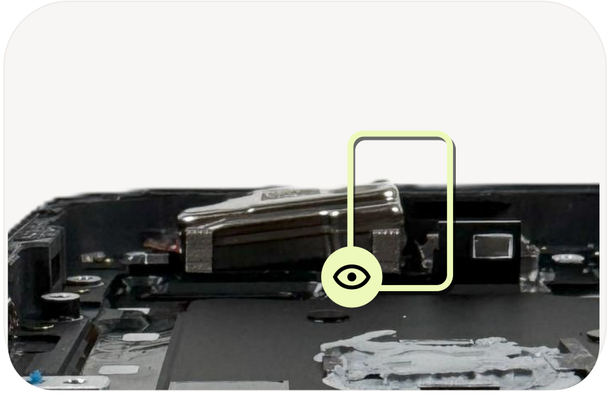


Fig 2





Disassembly instructions

Bottom speaker

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

Use caution

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

Prerequisites

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

- **BG sub**

Tools

Torx plus 3IP screwdriver

ESD spudger

ESD tweezers

Dust-free cotton swabs

Sankol lubricant CFD 409Z_V2

Required parts

Bottom speaker

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

Reuse indications

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

Bottom speaker

G863-00649-04

Screw

G250-07891-04

Remove screws

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

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

Use caution

Be careful when you use the screwdriver.

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

Note

Don't **reuse the screws.**

Finished! Want assembly instructions? ➜

Remove the bottom speaker

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

Part: G863-00649-04 (bottom speaker)

Finished! Want assembly instructions? ➜

Remove the bottom speaker

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

Part: G863-00649-04 (bottom speaker)

Note

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

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

Disassembly instructions

Chin board

The chin board is communicated with the components such as the USB port and 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**
- **Bottom speaker**

Tools

ESD spudger

ESD tweezers

Required parts

Chin board

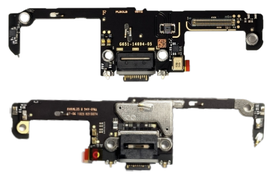
Here's the list of parts for the chin board disassembly:

Reuse indications

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

Chin board

G949-01481-00



Finished! Want assembly instructions? ➜

Remove the chin board

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

Part: G949-01481-00 (chin board)

Use caution

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

Note

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

Disassembly instructions

Vibrator

The vibrator is adhered to the enclosure.
If it's removed, replace with a new adhesive.

Use caution

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

Prerequisites

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

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

Tools

ESD tweezers

ESD spudger

IPA and cloth

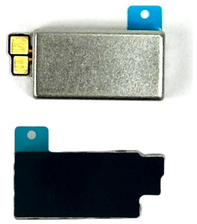
Required parts

Vibrator

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

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

Vibrator
G710-07500-00



Vibrator adhesive
G806-13155-00

Finished! Want assembly instructions? ➜

Remove the vibrator

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

Part: G710-07500-00 (vibrator)

Disassembly instructions

Enclosure

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

Use caution

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

Prerequisites

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

- **Display**
- **BG sub**
- **Front camera**
- **mmWave module**
- **Mic3 flex**
- **Battery**
- **Rear camera**
- **Logic board**
- **Top speaker**
- **Bottom speaker**
- **Chin board**
- **Vibrator**

Tools

Dust-free cotton swabs

IPA and cloth

Required parts

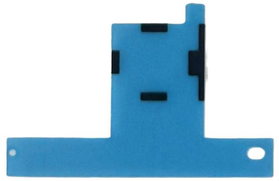
Enclosure

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

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

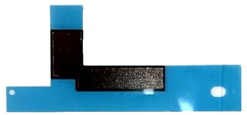
Enclosure
Multiple part numbers

DAM foam
G806-15122-12

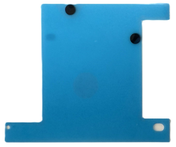


Thermal graphite
G864-01154-01

Nanocrystal tape
G806-15190-00



Coaxial cable shim
G806-15390-01



IC flex shim
G806-14220-01

Pixel 10 repair manual

Assembly

Enclosure

Top speaker

Logic board

Mic3 flex

Rear camera

mmWave module

Front camera

Display

Vibrator

Chin board

Bottom speaker

Battery

BG sub

Assembly instructions

Enclosure

Reuse the enclosure

- Inspect the **enclosure** for **adhesive** residue.
- If possible carefully peel off the **adhesive** by your hand in large sections.
- Use the **ESD spudger** to remove any remaining glue from the **enclosure**.
- Clean **thermal grease**, **mmWave TIM residue, thermal graphite, DAM foam, coaxial cable shim,** and **nanocrystal tape** from the **enclosure** with the **ESD spudger**.
- Where needed, use a **dust-free cloth** with **IPA** to clean the surface thoroughly.

Part: multiple part numbers (enclosure)

Note

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

Attach the thermal graphite and DAM foam

- Stick the **thermal graphite** to the **enclosure** with the dashed line with **ESD tweezers.**
- Remove the **thermal graphite** liner.
- Stick the **DAM foam** with the dashed line with **ESD tweezers**.

Part: G864-01154-01 (thermal graphite)

Part: G806-15122-12 (DAM foam)

Note

Undamaged and not dirty **DAM foam** can be reused.

Attach the coaxial cable shim and nanocrystal tape

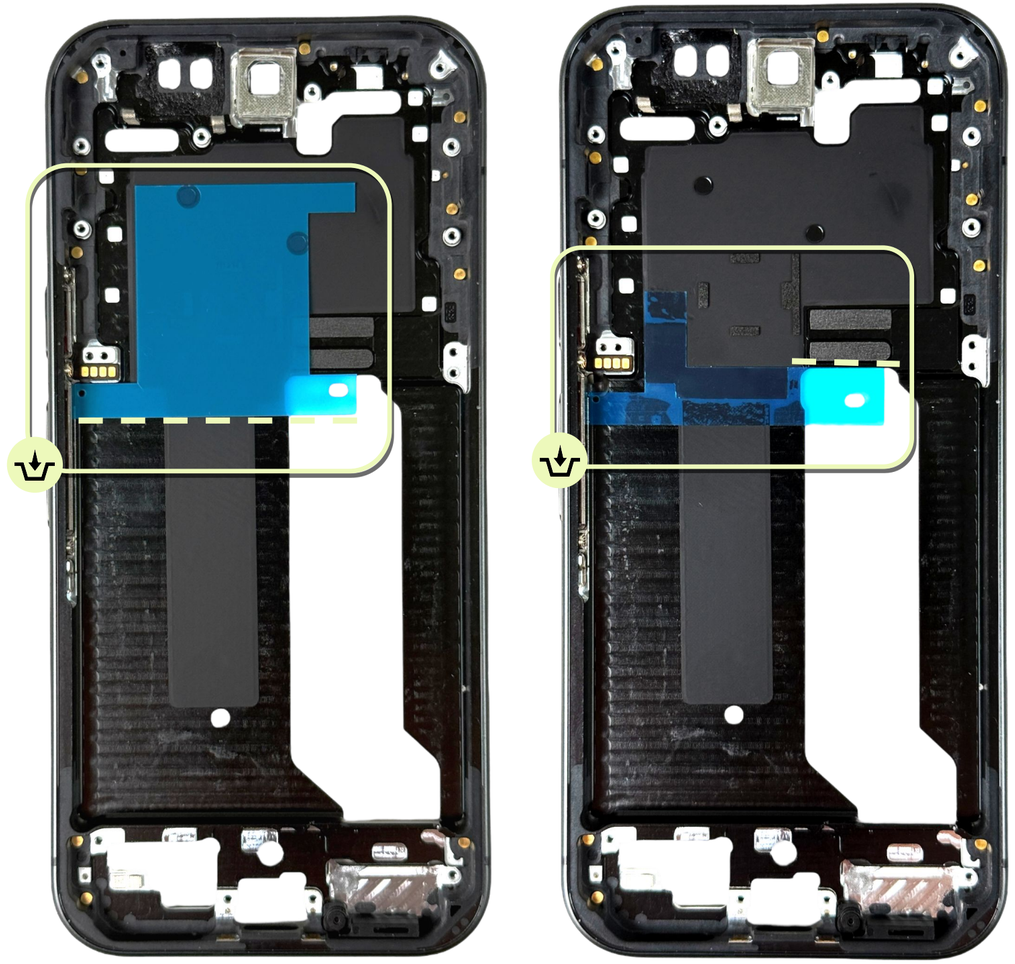
- Align the **coaxial cable shim** with the bottom of the **DAM foam** liner.
- Remove the **coaxial cable shim** and **DAM foam** liners.
- Stick the **nanocrystal tape** with the dashed line with the **ESD tweezers**.

Part: G806-15390-01 (coaxial cable shim)

Part: G806-15190-00 (nanocrystal tape)

Note

Don't remove the **DAM foam** liner before you attach the **coaxial cable shim**.



Assembly instructions

Top speaker

Clean the enclosure

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

Part: multiple part numbers (enclosure)

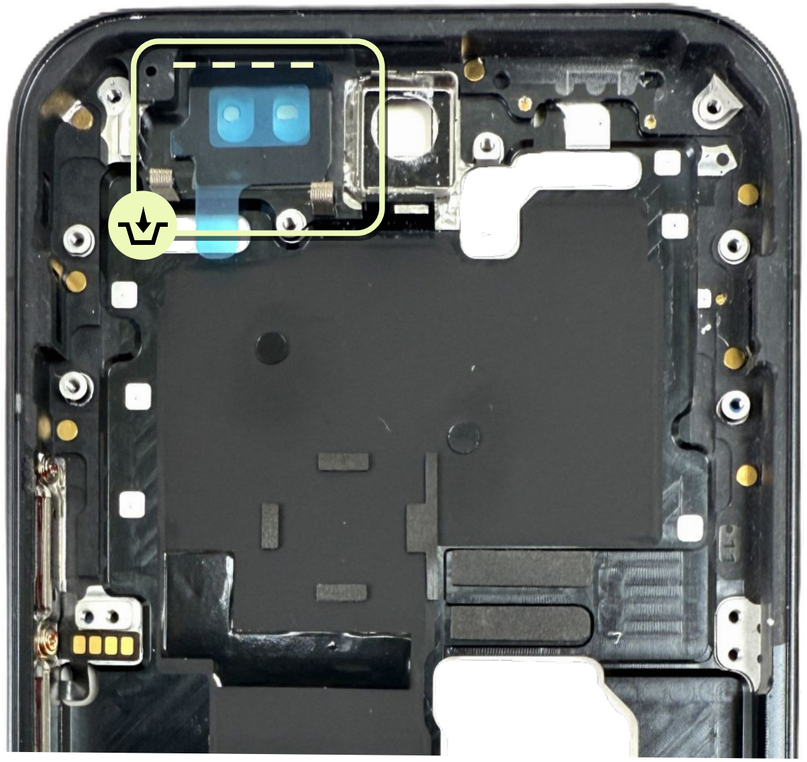
Attach the top speaker adhesive

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

Parts: G806-13436-02 (top speaker PSA)

Use caution

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



Attach the FoF

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

Parts: G806-14328-00 (FoF) * 2

Note

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

Otherwise, it can be reused.

Fig 1

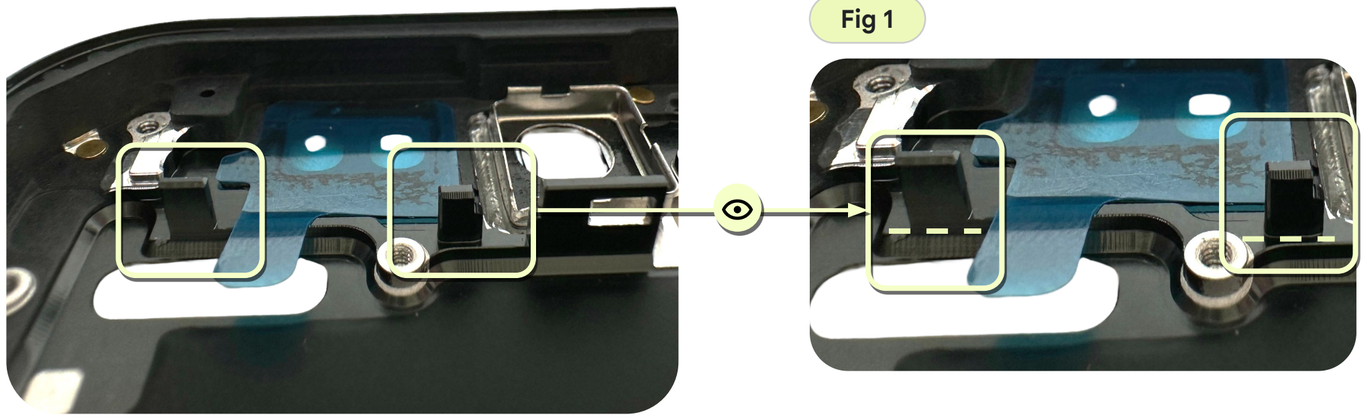


Fig 2

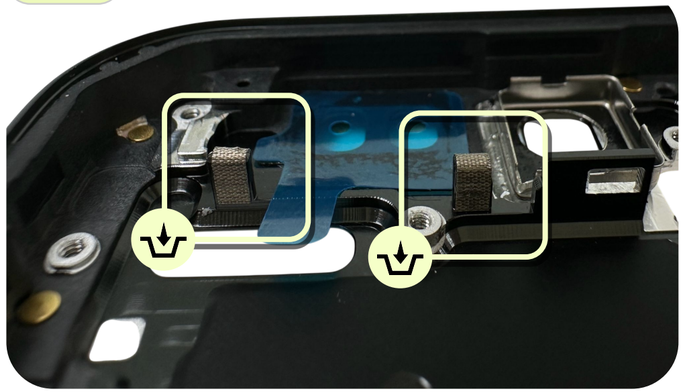
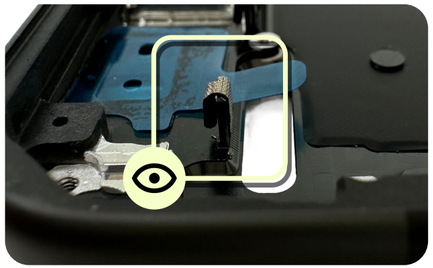


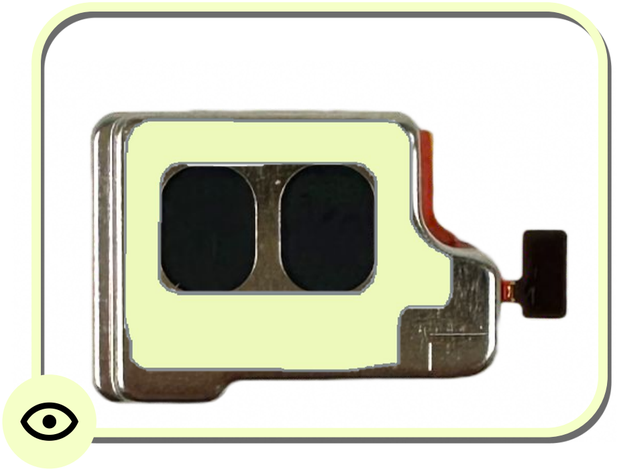
Fig 3



Reuse the top speaker

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

Part: G863-00688-01 (top speaker)



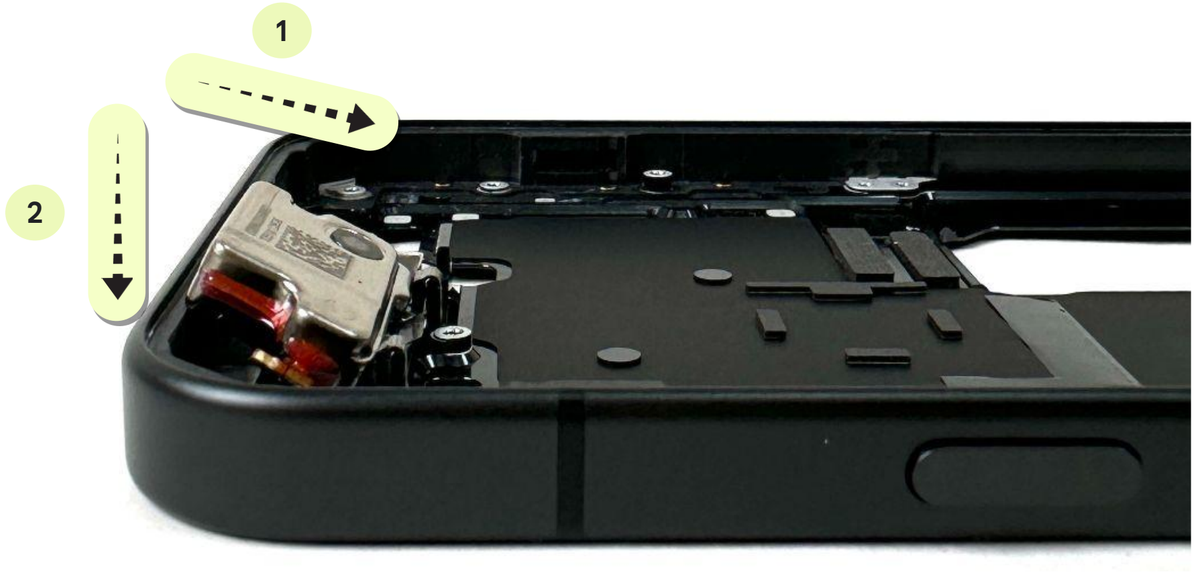
Assemble the top speaker

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

Part: G863-00688-01 (top speaker)

Note

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



Assembly instructions

Logic board

Check the logic board

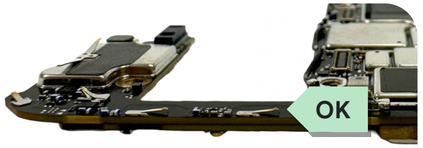
General rules

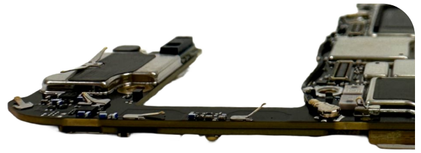
Use caution

Before you assemble the MLB, check for spring deformation.

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

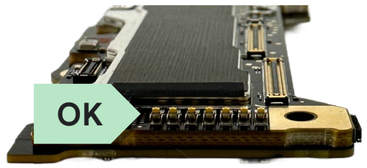
Springs

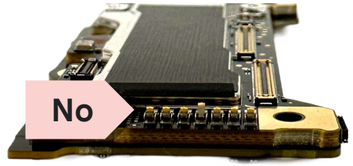




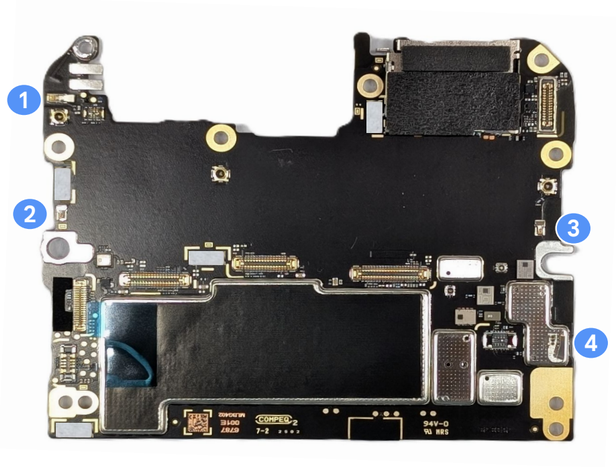
Deformation

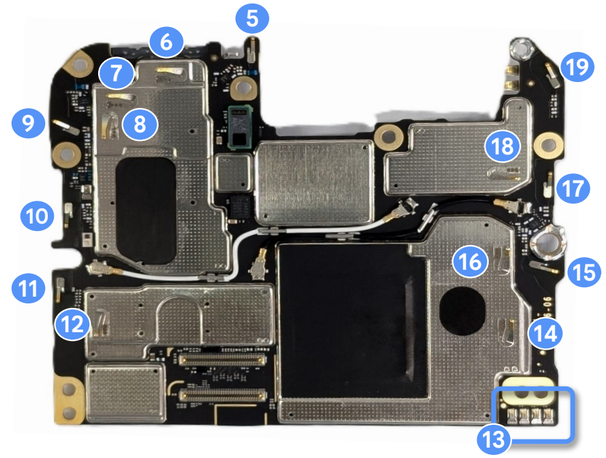
Pins





Deformation

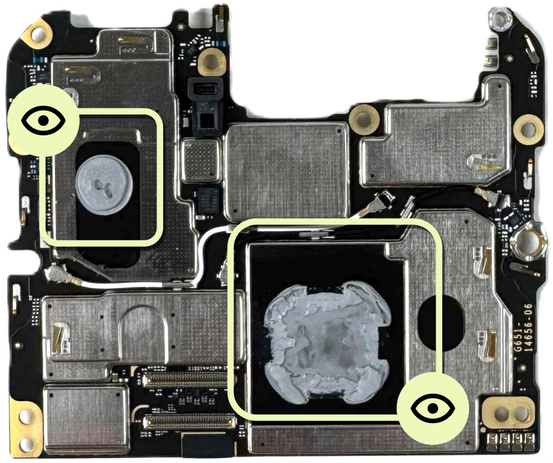


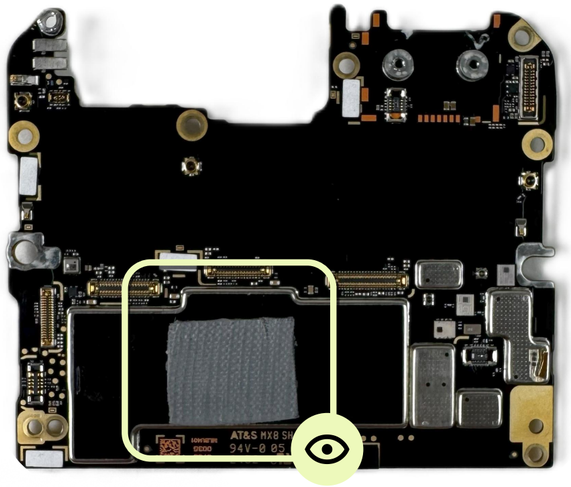


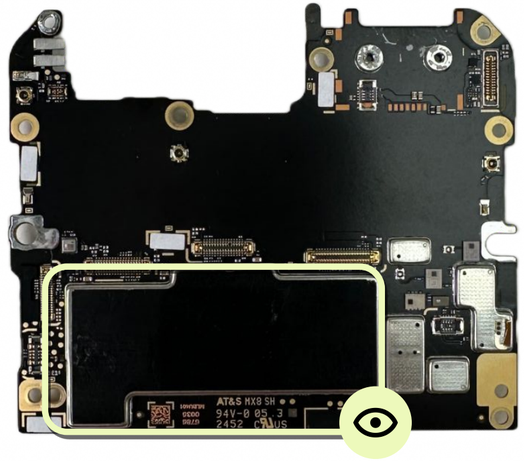
Reuse the logic board

- Clean any **thermal grease, TIM pad** residue, and **CU tape** from the **logic board** with the **ESD spudger**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: multiple part numbers (logic board)







Use caution

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

Note

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

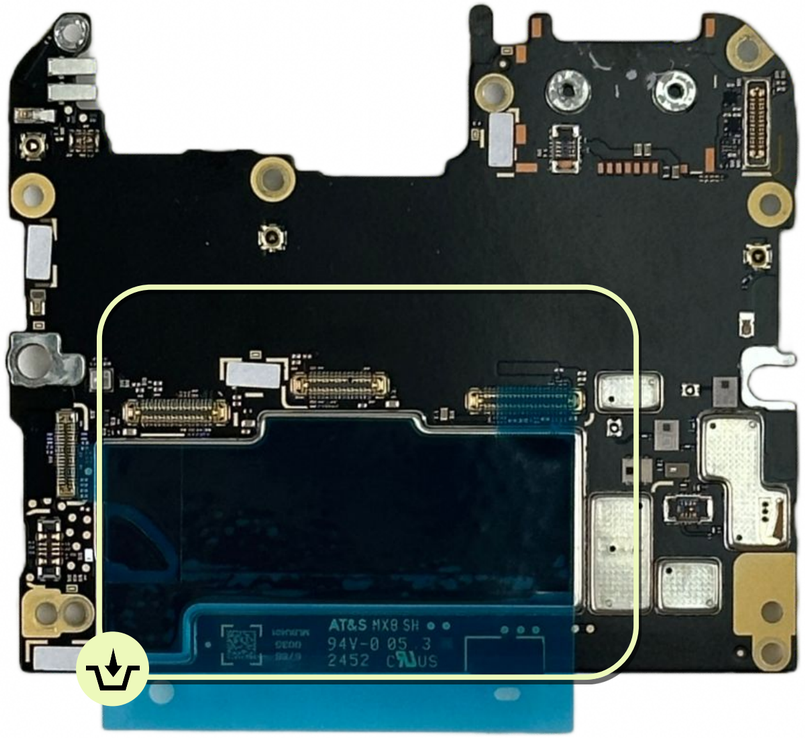
Undamaged **TIM pad** and **CU tape** can be reused.

Otherwise, they may need to be replaced.

Attach the CU tape

- Stick the **CU tape** to the **logic board** according to the outline with ESD tweezers.
- Apply gentle pressure to ensure proper attachment and tear off the liner from the bottom side.

Part: G806-13988-05 (CU tape)



Use caution

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

Note

Undamaged **CU tape** can be reused.

Battery flex PSA is part of CU tape. This step is only present for reclaimed **CU tape.**

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

Attach the battery flex PSA

- Use a pair of blunt nose tweezers or your fingers to peel the PSA away from the CU tape as shown in Fig 1.
- Stick the **battery flex PSA** to the **CU tape** according to the outline with ESD tweezers as shown in Fig 2.
- Apply gentle pressure to ensure proper attachment.

Part: G806-17443-00 (battery flex PSA)

Use caution

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

Note

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

Perform this step only when you replace the battery flex PSA.

Fig 1

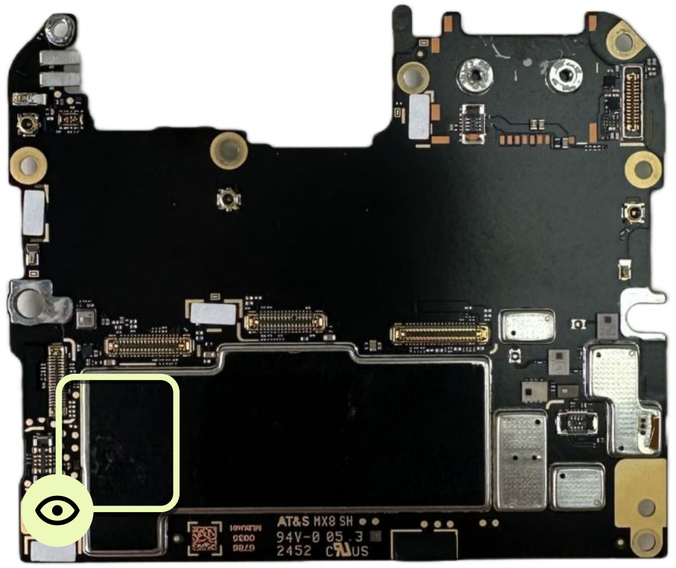
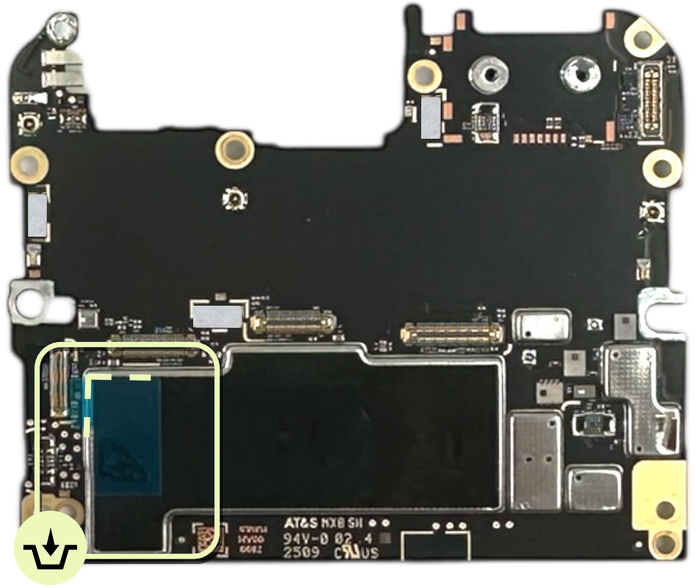


Fig 2



Attach the P-sensor foam

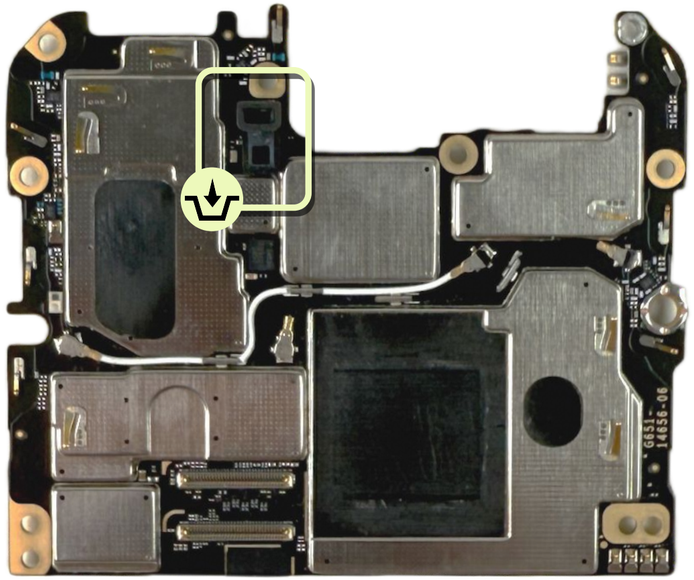
Attach the **P-sensor foam** to the **logic board** with **ESD tweezers**.

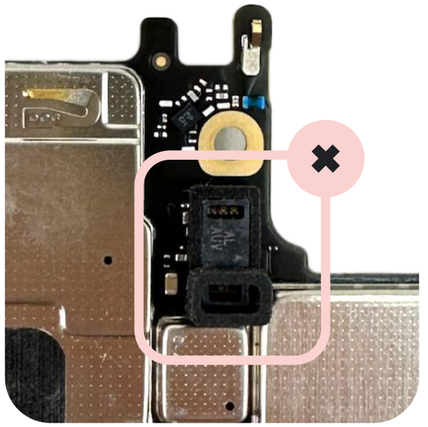
Part: G806-13064-01 (P-sensor foam)

Note

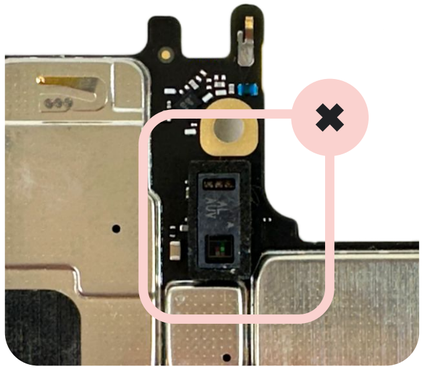
Skip this step if the **P-sensor foam** isn't removed or deformed during disassembly.

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





Wrong side



Missing

Reuse the DJ flex

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

Part: G949-01485-00 (DJ flex)

Part: G806-14931-01 (DJ shear PSA)

Assemble the CJ and DJ flex

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

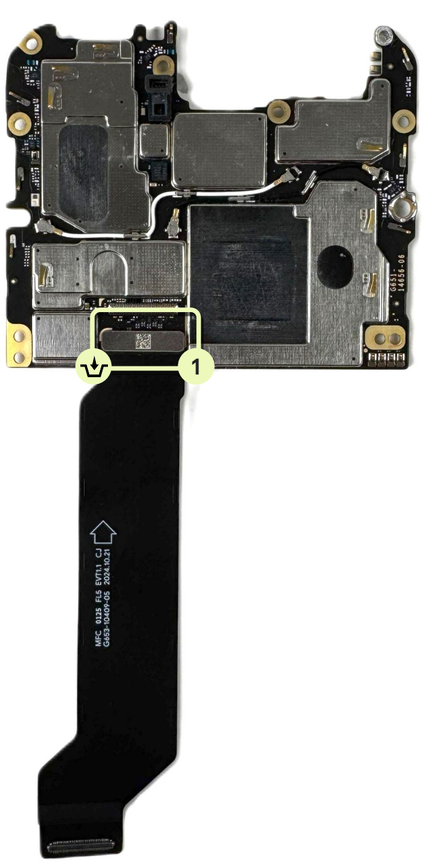
Part: G949-01486-00 (CJ flex)

Part: G949-01485-00 (DJ flex)

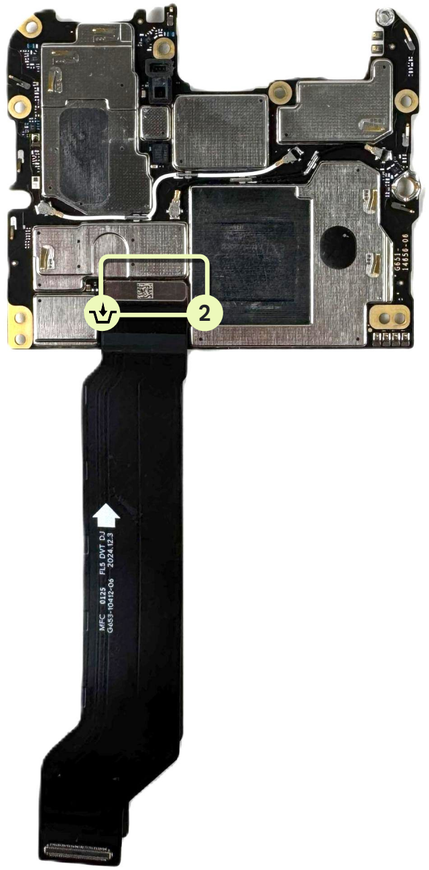
Note

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

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



CJ flex



DJ flex

Apply the thermal grease

- Place the **Pixel 10 thermal grease alignment fixture** on the enclosure, 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** as shown in Fig 2.
- Distribute the grease evenly across both regions shown in Fig 2 using an **opening pick**, moving it in a single direction as illustrated in Fig 3.
- Lift the **fixture** straight up to avoid contamination as shown in Fig 4.

Part: G160-01459-00 (thermal grease)

Part:G160-01481-00 (thermal grease)

Use caution

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

Review safety precautions before work.

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

Avoid to apply conductive thermal grease to nearby components.

Note

Use a cotton swab to clean up any excess thermal grease.

Fig 1

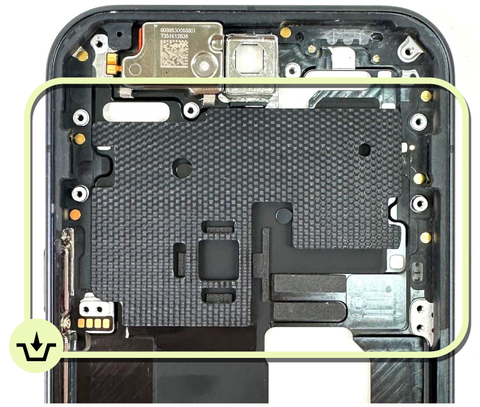


Fig 2

Fig 3

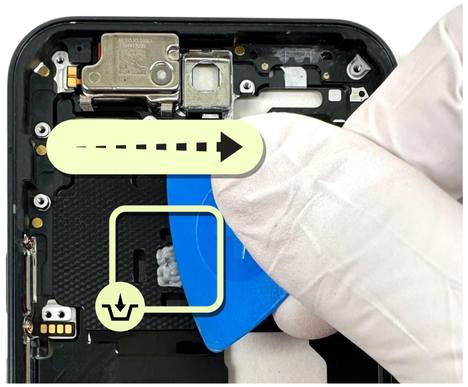
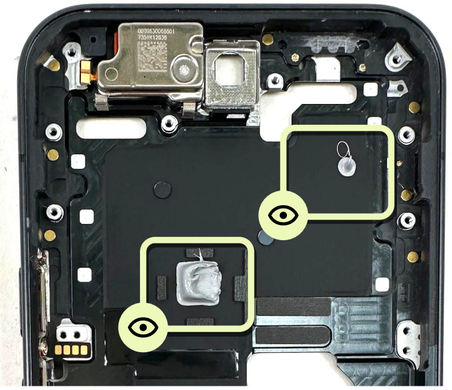


Fig 4



Assemble the logic board

Assemble the **logic board** to the **enclosure** from the **top side** at an angle.

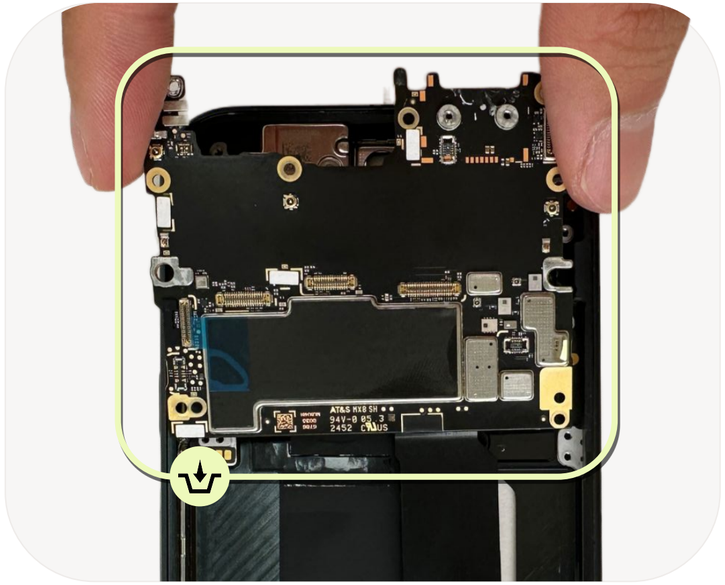
Part: multiple part numbers (logic board)

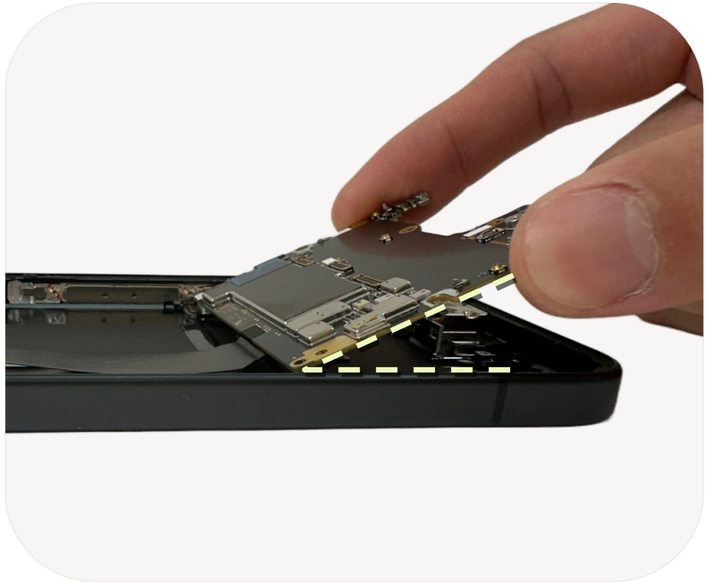
Use caution

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

Note

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

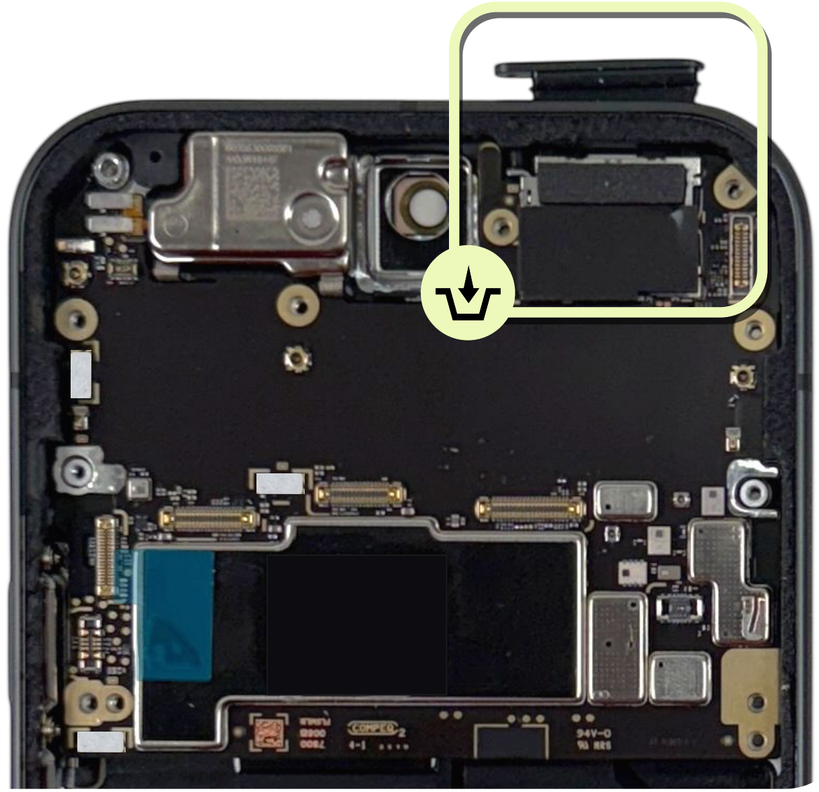




Insert the SIM tray

Hold the **logic board** lightly and insert the **SIM tray**.

Part: multiple part numbers (SIM tray)



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**.

This step is only present in the sub6 SKU.

Fasten the screws

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

Part: G250-07856-02*5 (screw)

Use caution

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

Assembly instructions

Mic3 flex

Clean the enclosure

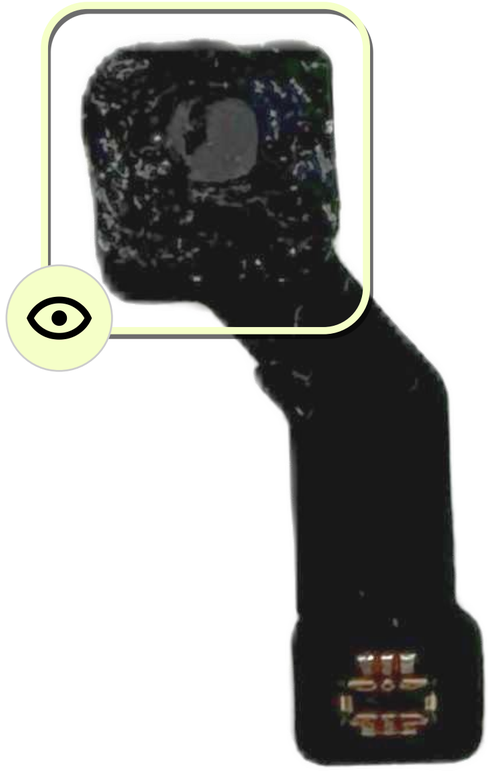
- Clean the **mic3 mesh** residue on the **enclosure** with **ESD tweezers**.
- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: multiple part numbers (enclosure)

Reuse the mic3 flex

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

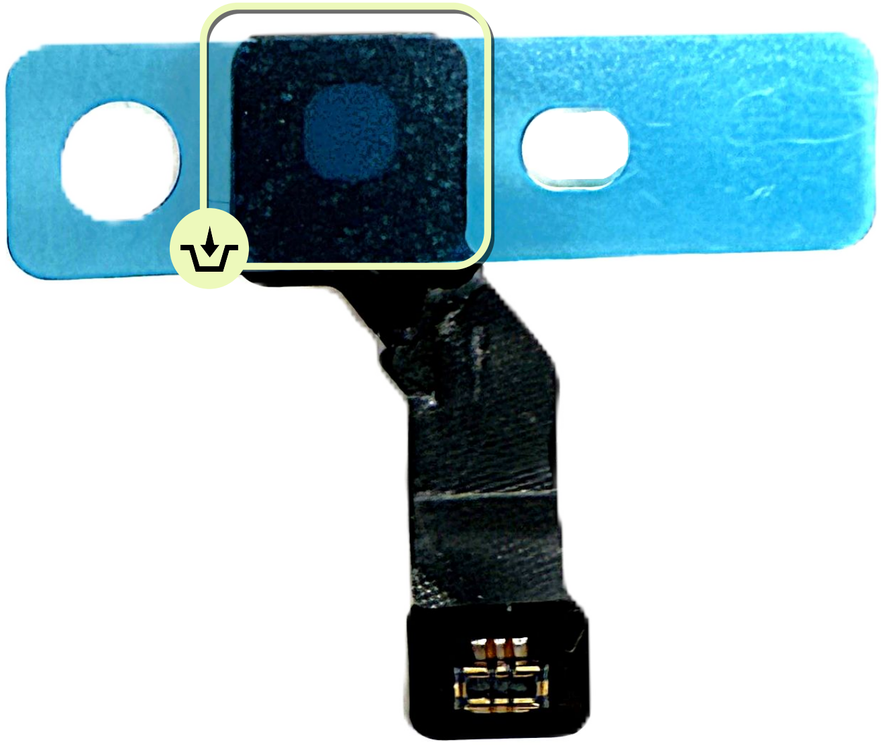
Part: G949-01484-00 (mic3 Flex)



Replace mic3 mesh

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

Part: G806-14494-00 (mic3 mesh)



Assemble the mic3 flex

- Buckle the **mic3 flex** to the **logic board**.
- Attach the **mic3 flex** to the **enclosure**.

Part: G949-01484-00 (mic3 flex)

Use caution

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

Note

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

Assembly instructions

Rear camera

Assemble the rear camera

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

Part: G949-01483-00 (rear camera)

Part: multiple part numbers (logic board)

Note

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

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

Assemble the mic3 cowling

- Assemble the **mic3 cowling** with **ESD tweezers**.
- Fasten **two mic3 cowling screws** in a sequence with a **torx plus 3IP screwdriver**.

Part: G730-10268-00 (mic3 cowling)

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

Use caution

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

Assembly instructions

mmWave module

Reuse mmWave module

- Clean the **thermal pad** residue with the **ESD spudger**.
- Use a **dust-free cloth** with **IPA** where needed.

Part: G949-01487-00 (mmWave module)

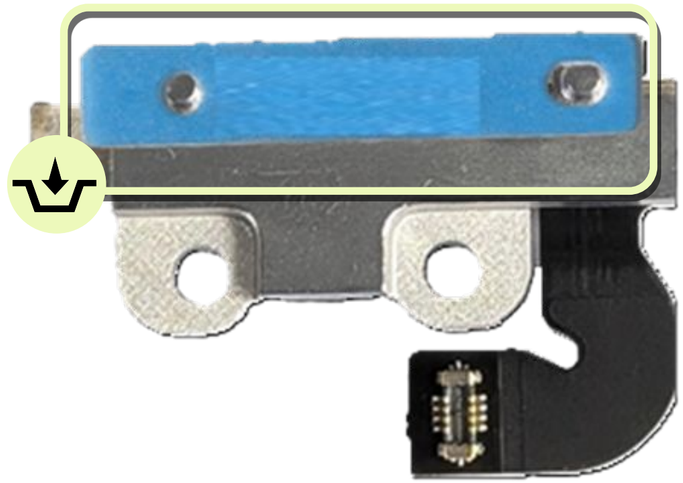
Note

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

Apply the thermal pad

- Align the **thermal pad** with **ESD tweezers** and press lightly by hand.
- Carefully remove the **liner**.

Part: G864-01089-00 (thermal pad)



Note

Undamaged **mmWave TIM** can be reused.

Otherwise, they may need to be replaced.

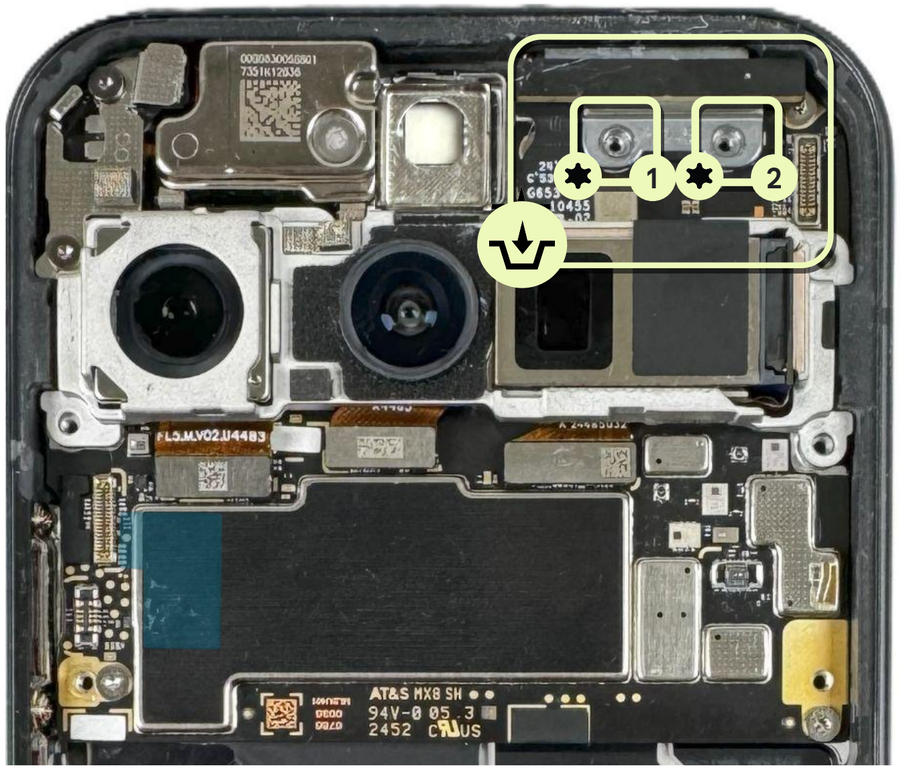
This step is only present for the **mmWave SKU**.

Assemble the mmWave module

- Assemble the **mmWave module**.
- Fasten **two mmWave module screws** in a sequence with the **torx plus 3IP screwdriver**.

Part: G949-01487-00 (mmWave module)

Part: G250-07197-00*2 (screw)



Attach mmWave flex FoF

- Buckle **mmWave module connector**.
- Stick the **mmWave flex FoF** on the **mmWave module connector**.

Part: G949-01487-00 (mmWave module)

Part: G806-15227-00 (mmWave flex FoF)

Use caution

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

Note

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

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

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.

Part: multiple part numbers (enclosure)

Note

Undamaged **FCAM adhesive** can be reused.

Otherwise, it may need to 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.

Part: G949-01508-00 (front camera-mmWave)

Part: G949-01482-00 (front camera-Sub6)

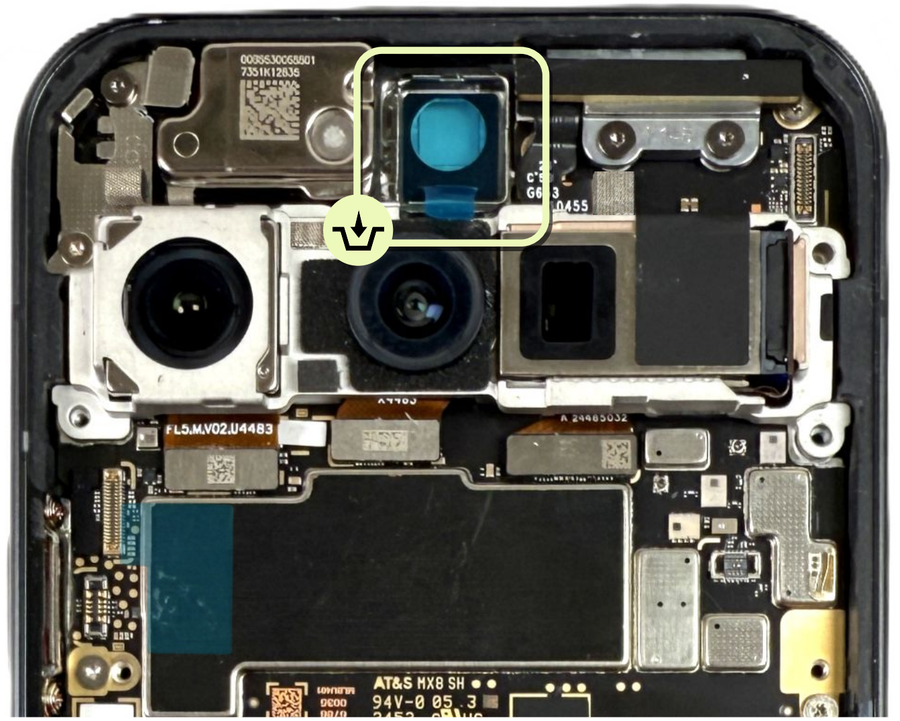
Use caution

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

Attach the FCAM adhesive

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

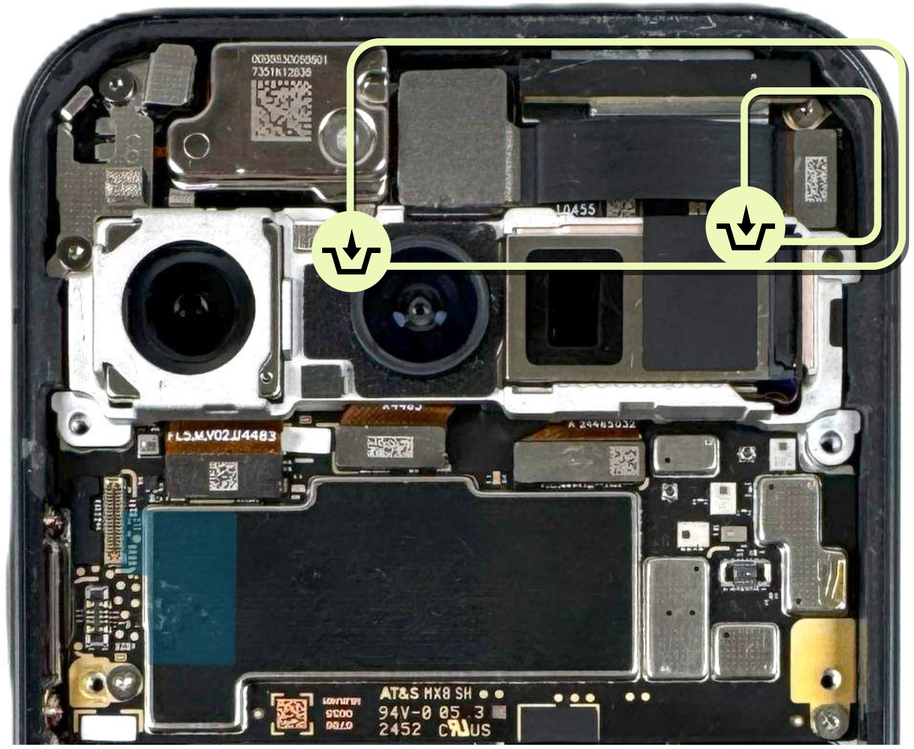
Part: G806-13421-01 (FCAM adhesive)



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: G949-01508-00 (front camera-mmWave)



Use caution

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

Note

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

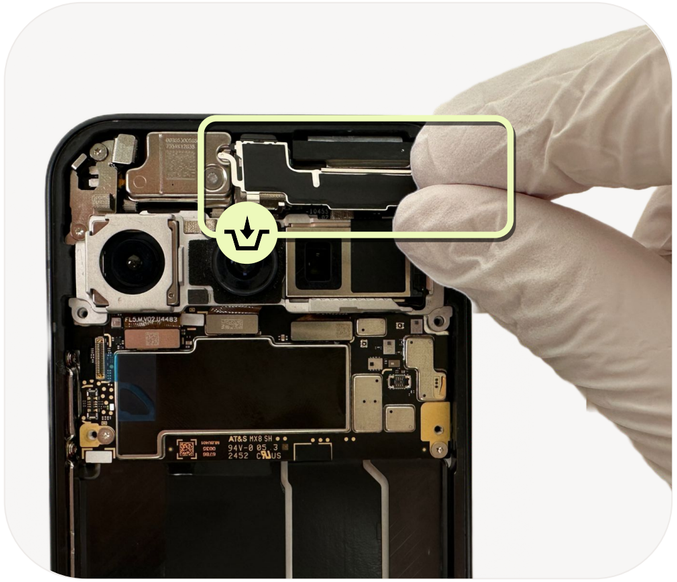
Assemble the FCAM cowling

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

Part: G730-10188-00 (FCAM cowling)

Note

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



Fasten the screw

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

Part: G250-07891-04 (screw)

Use caution

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

Assembly instructions

Display

Reuse the enclosure

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

Part: multiple part numbers (enclosure)

Apply the primer on enclosure

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

Part: multiple part numbers (enclosure)

Use caution

After the **primer** is applied, complete assembly 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: G806-16008-01 (display adhesive)

Use caution

Don't touch the **adhesive**.

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

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

Note

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

Activate the adhesive (first time)

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

Remove the liner (first layer)

Carefully pull the tab to remove the **liner**'s first layer. Avoid lifting the **adhesive**.

Use caution

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

Activate adhesive (second time)

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

Check display

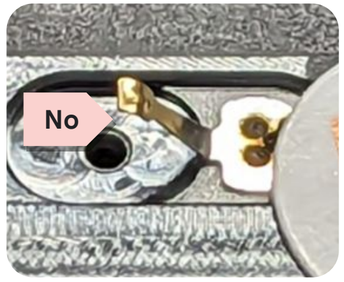
Use caution

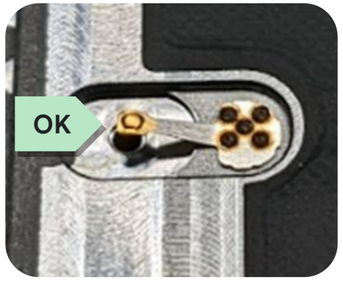
Before assembly, inspect the **display** for any spring deformation.

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, **label,FCAM and P-sensor liners**.
- Inspect the reused **display** for any adhesive residue.
- Carefully and slowly peel off the adhesive by hand in one piece.
- Use the **ESD spudger** to clean it. If needed, use a **dust-free cloth** with **IPA** to clean the surface.

Part: multiple part numbers (display module)

Reused display

New display

Apply 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: multiple part numbers (display module)

Use caution

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

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

Attach the DJ shear PSA

Apply the **DJ flex PSA** to the **DJ flex**, position it to the lower left corner of the slanted indent on the **flex**.

Part: G806-14931-01 (DJ shear PSA)

Connect the display

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

Part: multiple part numbers (display module)

Use caution

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

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

Insert the display cowling

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

Part: G730-10011-13 (display cowling)

Use caution

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

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

Remove the liner (second layer)

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

Activate the adhesive

- Align and lower the **display module vertically** to attach it to the **enclosure**.
- Press along the **display bezel** with both hands to ensure proper attachment.

Use caution

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

Assembly instructions

Vibrator

Prepare for the vibrator attachment

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

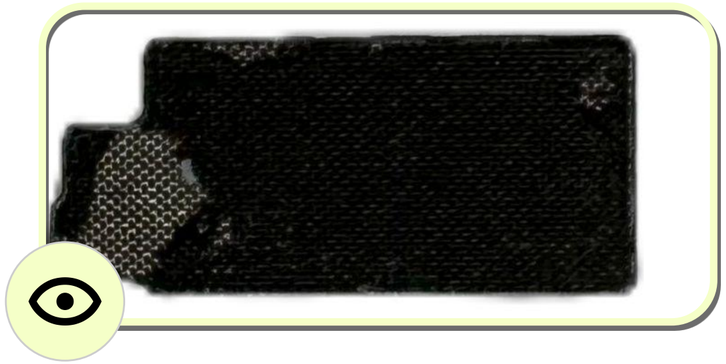
Part: multiple part numbers (enclosure)

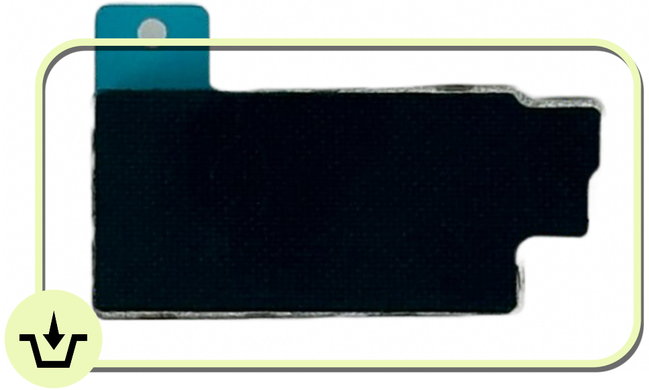
Reuse the vibrator

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

Part: G710-07500-00 (vibrator)

Part: G806-13155-00 (vibrator PSA)





Attach the vibrator

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

Part: G710-07500-00 (vibrator)

Assembly instructions

Chin board

Check the chin board

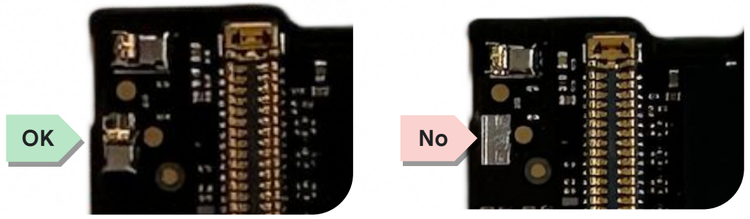
Use caution

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

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

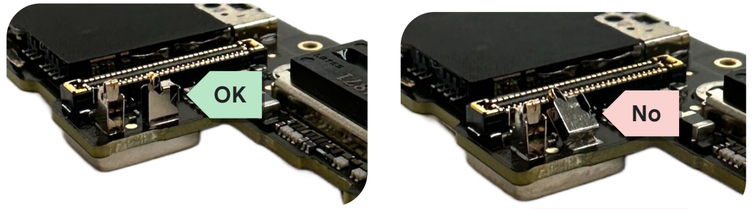
General rules

Bird view

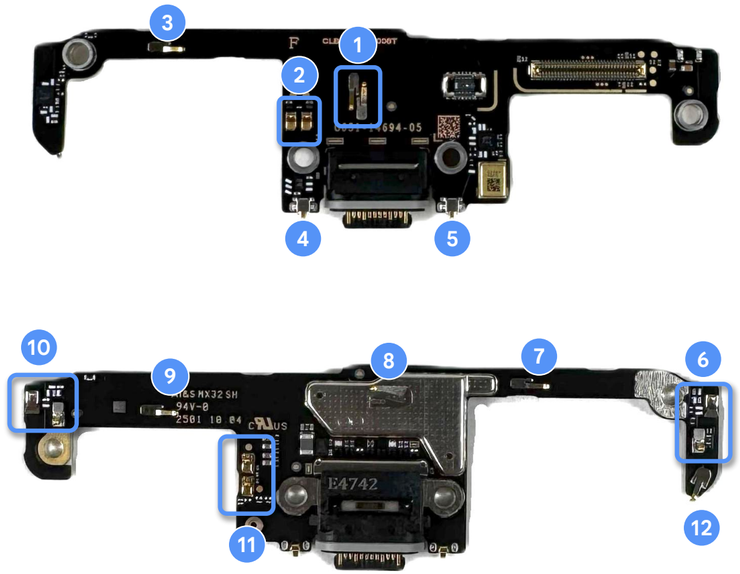


Missing

Side view



Broken

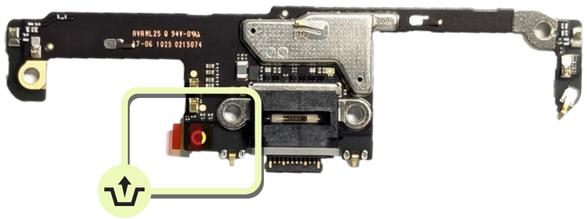


Prepare the chin board

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

Part: multiple part numbers (enclosure)

Part: G949-01481-00 (chin board)



Use caution

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

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

Note

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

Install the chin board

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

Part: G949-01481-00 (chin board)

Note

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

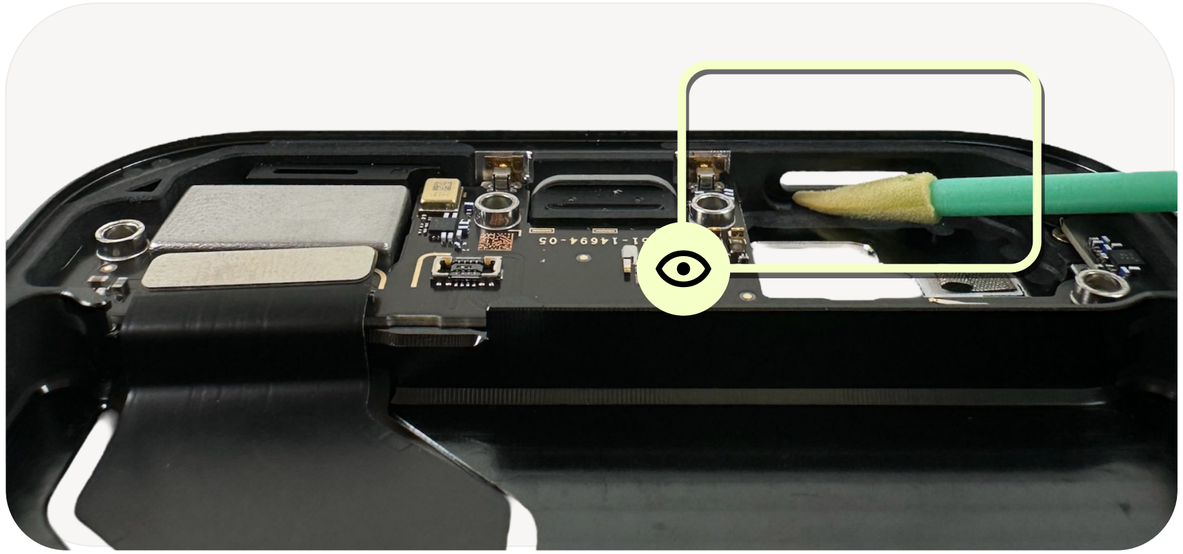
Push gently to ensure that the **chin board** goes under the retaining wall and that the lower two springs touch the metal sheets on the **enclosure**.

Assembly instructions

Bottom speaker

Apply the dry lube

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



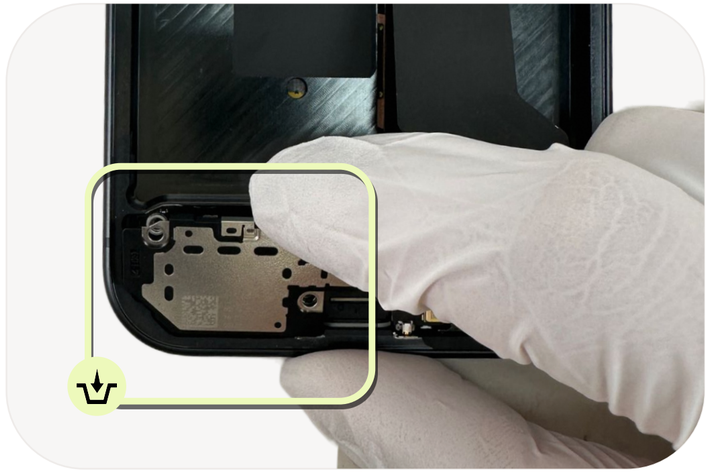
Embed the bottom speaker

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

Part: G863-00649-04 (bottom speaker)

Note

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



Fasten the screws

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

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

Use caution

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

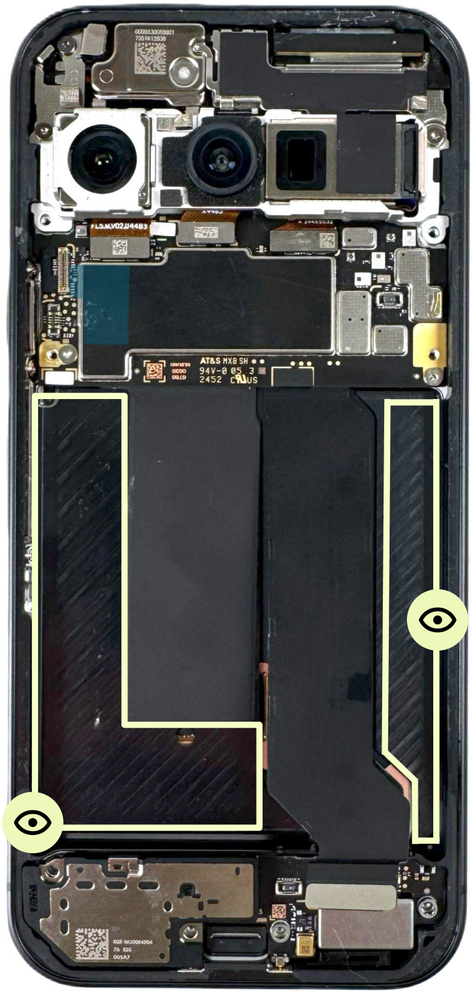
Assembly instructions

Battery

Clean the residue

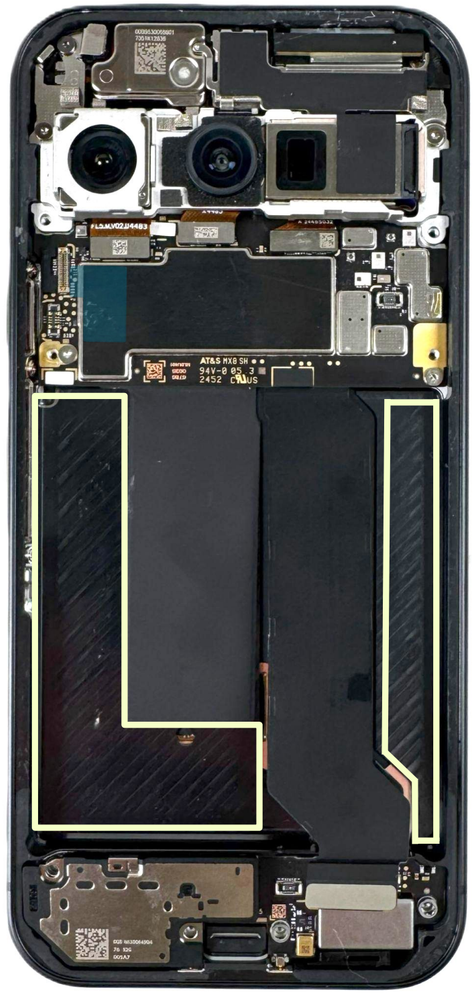
- Remove any adhesive residue in the **battery** area with the **ESD spudger**.
- Apply **IPA** with a **dust-free cloth where needed**.

Part: multiple part numbers (enclosure)



Apply the primer on 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 the assembly within 25 minutes.

Align the battery

- Buckle **CJ flex** to the **chin board**.
- Confirm the battery model to be **G20M7**. If the model number isn't **G20M7**, please don't use the battery.
- Use an **absorption-bulb** to pick up the **battery**.
- Align the **battery white liner** to the lower left corner of the depression.
- Gently press the **battery** down with the **suction bulb.**
- Remove the **white liner** from the **top side** to lift it up after assembling the battery.

Part: multiple part numbers (battery)

Use caution

Review all safety precautions before you begin work.

Note

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

Don't remove it prior installation.

Prepare to press

- Place the **universal holder** in the **C3 position** on the **universal base 12 mm.**
- Place the **universal supporting rubber** and the **universal holder limiting block** through the positioning posts on the **universal holder** in this order, as shown in Fig 1.
- Place the **device** and **lock** it as shown in Fig 2.
- Place the **Pixel 10 battery press rubber** through the positioning posts as shown in Fig 3.

Note

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

Ensure that the display is already assembled.

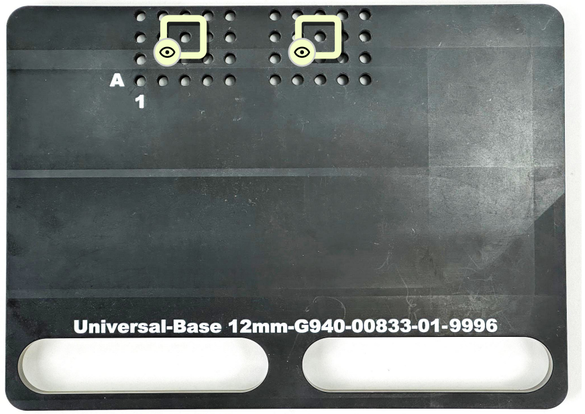


Fig 1

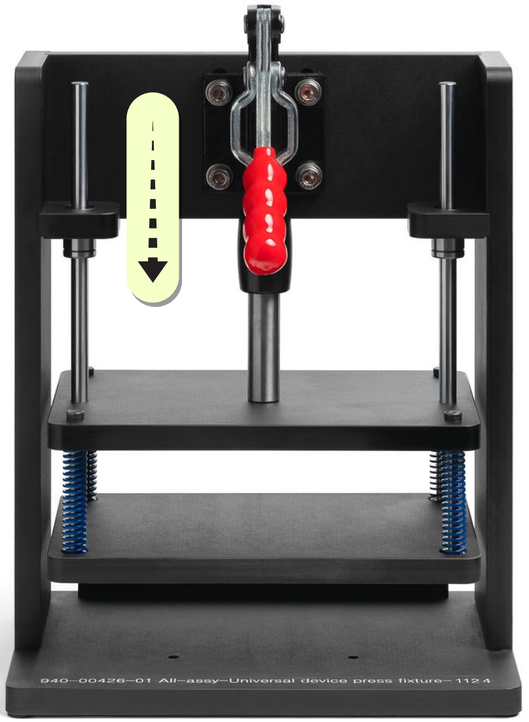
Fig 2

Fig 3

Prepare to press

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

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



Assemble the RJ flex

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

Part: G652-10415-04 (RJ flex)

Note

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

Assemble the CLB cowling

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

Part: G730-09460-11 (CLB cowling)

Fig 1

Fasten the screws

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

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

Use caution

Be careful when you use the screwdriver.

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

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

Connect the battery

- Tear off the blue liner as shown in Fig 1.
- Buckle the **battery connector** as shown in Fig 2.
- Apply gentle pressure to ensure battery flex attaches on the MLB shielding.
- Power on to check if the device works properly, power off the device after you check it.

> **Note**
>
> Ensure that the **battery connector** is fully attached to the **logic board**.

Fig 1

Fig 2

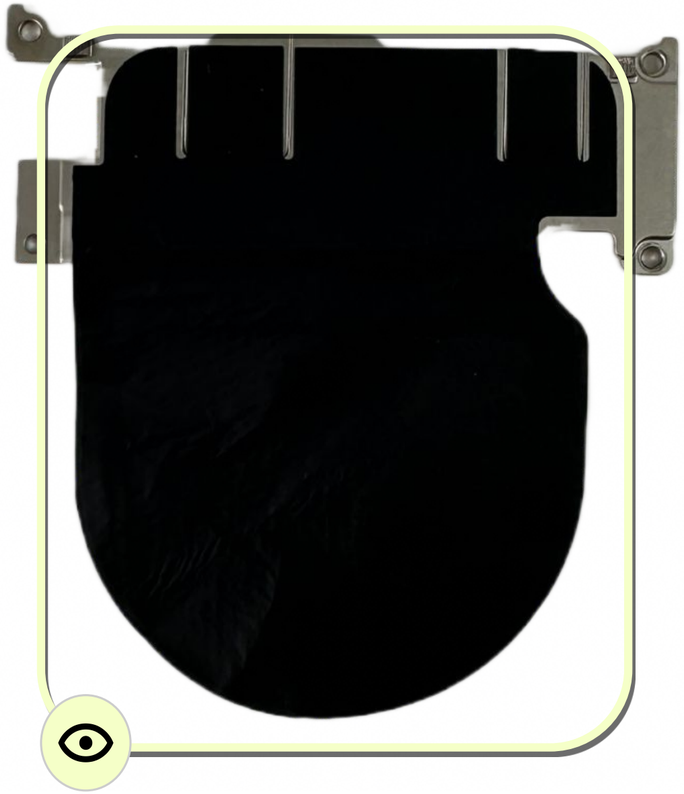
Assembly instructions

BG sub

Reuse the MLB cowling

- Remove the **graphite** with **ESD Tweezers**.
- Apply **IPA** with a **dust-free cloth** where needed.

Part: G730-09355-21 (MLB cowling)



Apply the TIM pad

Align the **TIM pad** with the outline on the **MLB cowling**.

Part: G806-13428-11 (TIM pad)

Use caution

Don't exceed the line after you remove liner.

Note

Undamaged **TIM pad** can be reused.

Damaged TIM pads might need to be replaced.

This step is only present for new and reclaimed **MLB cowling**.

Secure the MLB cowling

- Place the **MLB cowling** in position with **ESD tweezers**.
- Fasten **two MLB cowling screws** in a sequence with a **torx plus 3IP screwdriver**.

Part: G730-09355-21 (MLB cowling)

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

Use caution

Be careful when you use the screwdriver.

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

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

Attach the graphite

- Align the **graphite** to the **MLB cowling** with dashed line with **ESD tweezers**.
- Apply gentle pressure to ensure proper attachment.

Part: G864-00999-21 (graphite)

Apply the primer onto the enclosure

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

Part: multiple part numbers (enclosure)

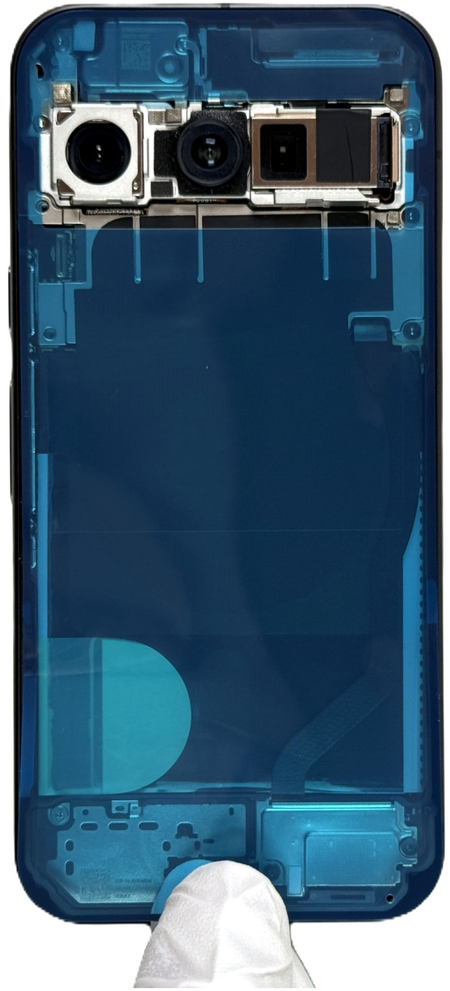
Use caution

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

Align the adhesive

Place the **adhesive** according to the outline of the **enclosure**.

Part: G806-16039-01 (BG 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 with the **ESD spudger** to enhance the bond between the **enclosure** and the **adhesive**.

Use caution

Don't touch the RCAM area during the process.

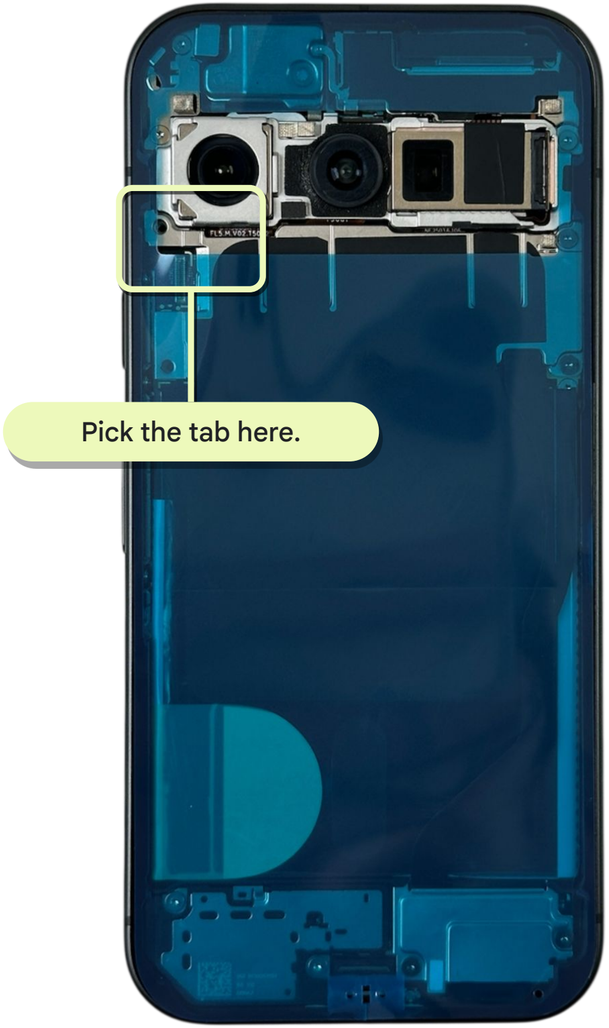
Remove the liner (first layer)

Carefully pull the tab to remove the **liner**'s first layer. 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 the **ESD spudger** to strengthen the bond between the **enclosure** and the **adhesive**.

Use caution

Don't touch the RCAM area during the process.

Attach the IC flex shim

- Clean the **enclosure**'s **adhesive** residue with **ESD tweezers** as shown in Fig 1.
- Use a **dust-free cloth** with **IPA** to clean the affected surface.
- Stick the **IC flex shim** to the **enclosure** according to the outline with ESD tweezers as shown in Fig 2.
- Apply gentle pressure to ensure proper attachment and tear off the liner as shown in Fig 3.

Part: G806-14220-01 (IC flex shim)

Use caution

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

Fig 1

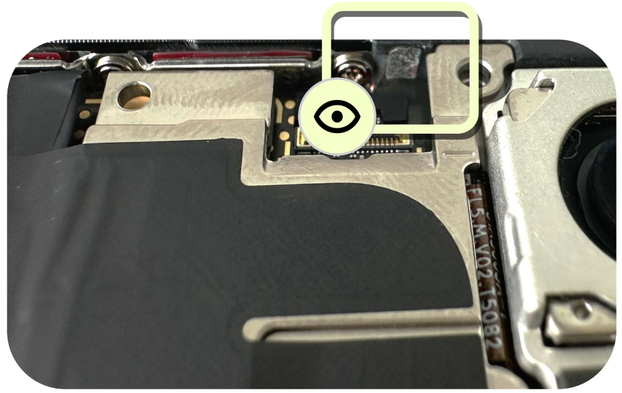


Fig 2

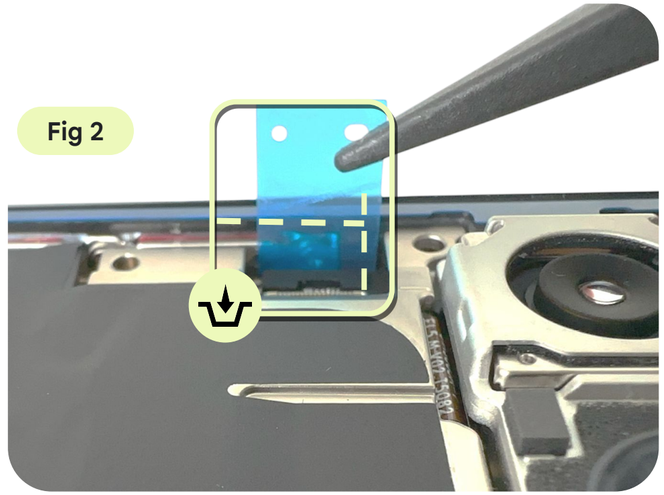
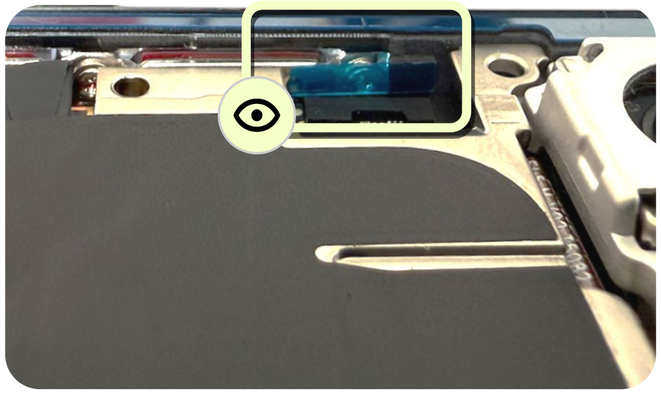


Fig 3



Prepare the BG sub

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

Part: multiple part numbers (BG sub)

Use caution

Be careful to avoid touching 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** for one round.

Part: multiple part numbers (BG sub)

Use caution

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

Connect the BG sub

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

Use caution

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

Insert the NFC cowling

- Assemble the **NFC cowling** into the **hooks** with **ESD tweezers**.

Part: G730-09357-21 (NFC cowling)

Use caution

Avoid damage to the BG sub flex.

Tighten the screws

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

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

Use caution

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

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

Remove the liner (second layer)

Carefully pull the tab to remove the **liner**'s second layer. Avoid lifting the **adhesive**.

Use caution

Avoid damage to the BG sub flex.

Don't touch the RCAM area during the process.

Attach BG sub

- Alling and lower the **BG sub** into the **enclosure** vertically.
- Press along the **BG bezels** with both hands to ensure proper attachment.

> ***Note***
>
> *To begin 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 in this process.***

Prepare to press

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

Note

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

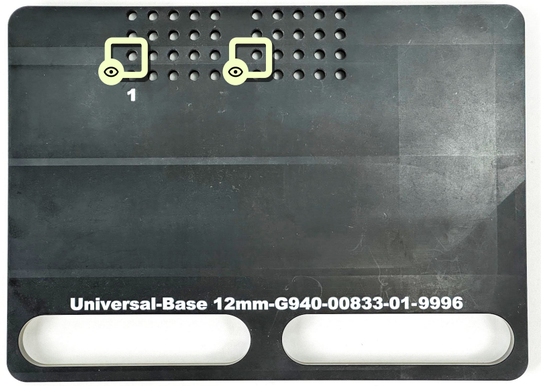
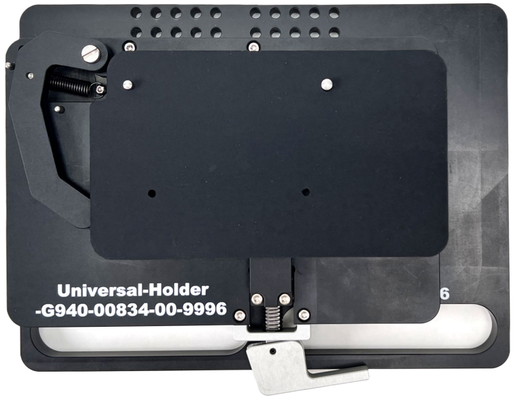


Fig 1

Fig 2

Fig 3

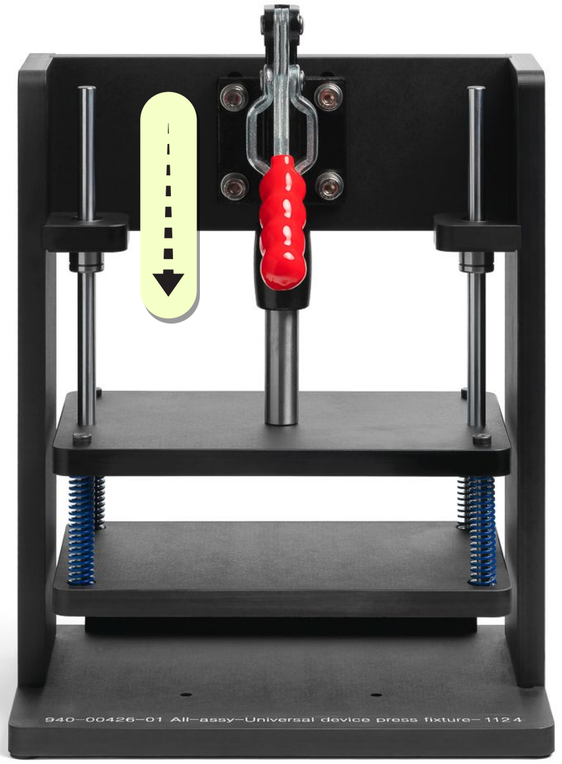


Prepare to press

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

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

Fig 1



Pixel 10 repair manual

Troubleshooting

Sensor location

Connectors and feature location

Power

Wireless charge

Mic1

Mic2

Mic3

Top speaker

Bottom speaker

Vibrator

Display

NFC

Proximity sensor

UDFPS

Rear camera

Front camera

USB-C

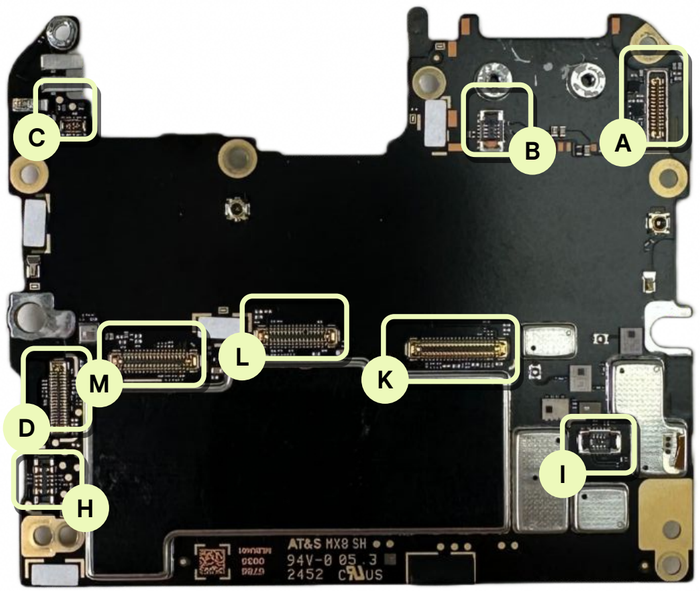
mmWave module

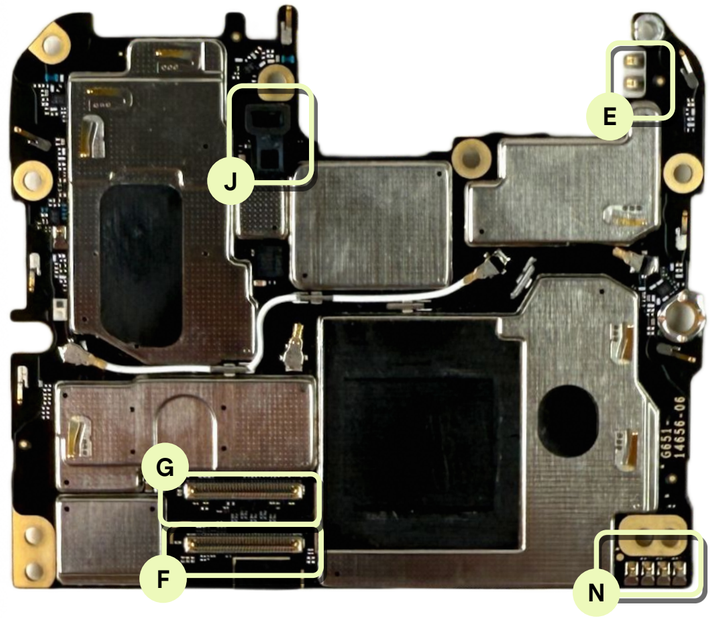
Sensor location

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

Connectors and feature location

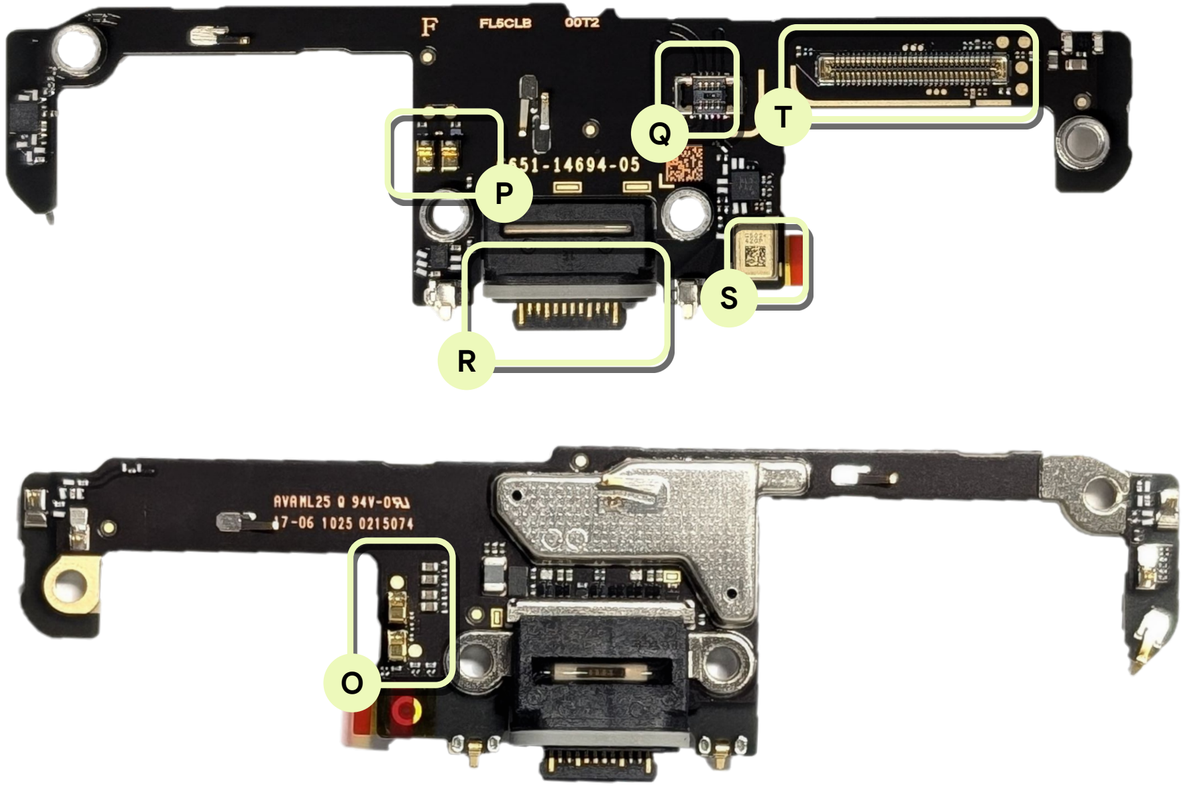
Location and description	
A	Front camera connector
B	mmWave module connector
C	Mic3 flex connector
D	BG connector
E	Top speaker spring
F	CJ flex connector
G	DJ flex connector
H	Battery connector
I	RJ flex connector
J	P-sensor or light sensor
K	Tele camera connector
L	Rear camera UW connector
M	Rear camera main connector
N	Sidekey spring





Connectors and feature location (continued)

Location and description	
O	Vibrator spring
P	Bottom speaker spring
Q	RJ flex connector
R	USB port
S	Mic1
T	CJ flex connector



Connectors and feature location (continued)

Location and description	
U	DJ flex connector
V	BG connector
W	Mic2
X	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 **LDI**.	
	Display	• Remove the **display module** and seat a new one. Charge for 10 minutes to see if the device can power on.	**Disassembly** • Display
	Connectivity issue	• Remove the **MLB cowling**, Check if the connectivity between the **battery connector** and the **logic board** are normal. If they’re not 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're not 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

Mic1

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

1. Mic1
2. Mic2
3. Mic3

Disassembly

- Chin board
- Enclosure

Mic2

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

1. Mic1
2. Mic2
3. Mic3

Mic3

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

Top speaker

Symptom	Potential root cause	Procedure	
  T019: top speaker no sound **T020:** top speaker low sound **T021:** top speaker distorted sound	Internal debris	• Inspect whether the **logic board spring** and **top speaker pad** are broken or squeezed.	
	Connectivity issue	• Check the contact condition between the **top speaker** and the **logic 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 **top speaker** and **logic board** to cross-check with original ones • Replace the defective component	**Disassembly** • Top speaker • Logic 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 burnin **T039:** display temporary burnin	Damage	• Inspec the **display** for damage and replace if necessary. • Inspect whether the **VC** edge is flat or not.	**Check display**
	Connectivity issue	• Check if the connectivity between the **display connector**, **DJ flex,** and the **logic board** is normal. • If they're not 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 new **display module**.	**Disassembly** • Display

Display (cont.)

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're not fully buckled, reassemble and then test again.	**Connectors location**
	Component issue	• Use a good **BG** and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • BG sub • Logic board

Proximity Sensor

Symptom	Potential root cause	Procedure	
 T059: proximity sensor failure	Assembly issue	Check if the **p-sensor foam** is posted flat or not.	**Assembly** • P-sensor foam
	Component issue	• Disassemble and check the appearance of the **p-sensor foam** without abnormality. • Use a good **p-sensor foam** to the **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 prior to testing related to display function.	
	Damage	• Inspect the **display** for damage and replace if necessary. • Inspect the **UDFPS area**. If there's dirt or debris, clean it with a **dust-free cloth.**	
	Connectivity issue	• Check if the connectivity between the **display connector** and the **chin board** is normal. • If they're not fully buckled, reassemble and then test again.	**Connectors location**
	Component issue	• Use a good **display** and **chin board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • Display • Chin 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 Rear Camera photo quality **T199:** tele Rear Camera video quality	Damage	• Inspect the **camera lens area** for damage. • Check the function by triage test. • Disassemble the device to check that the **camera connector** is seated properly. Power on the unit and check that the **camera** fails again.	
	Connectivity issue	• Check if the connectivity between the **rear camera connector** and the **logic board** is normal. • If they're not 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’re not 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 **LDI**.	
	Connectivity issue	• Check if the connectivity between the **CJ flex connector** and the **chin board** is normal. If they're not fully buckled, reassemble and then test again. • Check if the connectivity between the **CJ flex connector** and the **logic board** is normal. If they're not 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	
	Damage	• Inspect the **mmWave module** for damage.	
T105: 5G_low_med_band_failure **T106:** 5G_high_band_failure	Connectivity issue	• Check if the connectivity between the **mmWave connector** and the **logic board** is normal. • If they're not 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 10 repair manual

Software

Software tools

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