



Pixel 10 Pro Fold

repair manual

Version 1.1, 2025



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

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



Use caution if you engage in repair.

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

Welcome!

We are here to help.

At Google, we innovate, design, and build to create helpful and sustainable products. Product longevity is important to us and repairability is part of that. Repair 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 complete the repairs safely.



Repair flows

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



Disassembly

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



Assembly

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



Troubleshooting and software

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



Glossary

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

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**User PF repair**

Inner display protective film

Inner display trim

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Disassembly order

Assembly order

**Disassembly-base**

BG (back glass) sub

Vibrator with cowling

mmWave module and IF FPC Base battery

Inner front camera

Bottom speaker

Logic board

Rear camera

ID (inner display) sub

**Assembly-base**

ID (inner display) sub

Rear camera

Logic board

mmWave module and IF FPC

Bottom speaker

Base battery

Vibrator with cowling

Inner front camera

BG (back glass) sub

**Disassembly-flip**

OD (outer display) sub

Lower board

Upper board

Outer front camera

Flip battery

ID (inner display) sub

**Assembly-flip**

ID (inner display) sub

Outer front camera

Upper board

Lower board

Flip battery

OD (outer display) sub

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Troubleshooting

- Connectors location
- Power
- Wireless charge
- Mic 1
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- Top speaker
- Bottom speaker
- Vibrator
- Outer display
- Outer display touch panel
- RF (BT, Wi-Fi, GPS, NFC)
- Battery
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- Sensor
- FPS (power button)
- Volume button
- Rear camera
- Outer front camera
- Inner front camera
- USB
- mmWave
- Inner display
- Inner display touch panel
- UWB
- Hinge



Software

- Software tools

Revision history

Version	Date	Change description
v1.0	August 15, 2025	First release
v1.1	September, 2025	1. Revise service trim pictures. P.55,P.56,P.58,P.59,P.63,P.64,P.66,P.67
		2. Modify the wording. P.60, P.68
		3. Increase the opening pick insertion depth to from 3.5mm to 5.0 mm. P.78, P.80
		4. Add picture to identify the area. P.152, P.153
		5. Modify the direction of insert feeler gauge. P.201
		6. Remove the duplicate page P.272
		7. Revise the note. P.180, P.184
		8. Remove the index of top speaker liner. P.236
		9. Revise the note and picture for Rcam’s PSAs. P.137
		10. Correct the GPNs. P.230, P.235



Pixel 10 Pro Fold repair manual

Precautions

Important: Before you begin



Be careful if you engage in repair

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

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

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

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 container as soon as possible.
- Take care to prevent shorting of battery terminals or damage of the battery, as it could result in fire or overheating.
- Dispose of the battery according to local regulations.



Use caution Pixel 10 Pro Fold contains a class 1 laser module

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

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

Important: Before you begin



Use caution Part handling – glass

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



Tools and fixtures

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

Use caution:

- We *don't* recommend that you perform repairs without the specified tools and fixtures.
- Improper use of tools and fixtures might result in injury to yourself, the user of the device or 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.

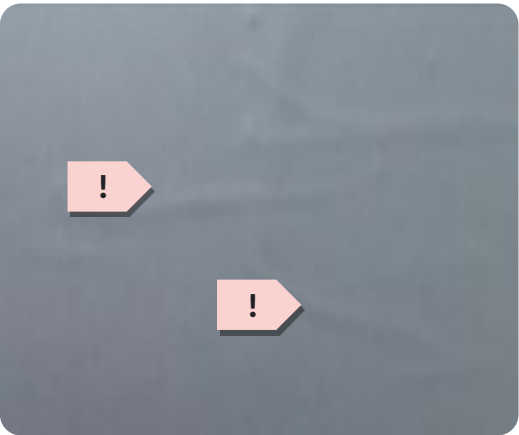
Use caution



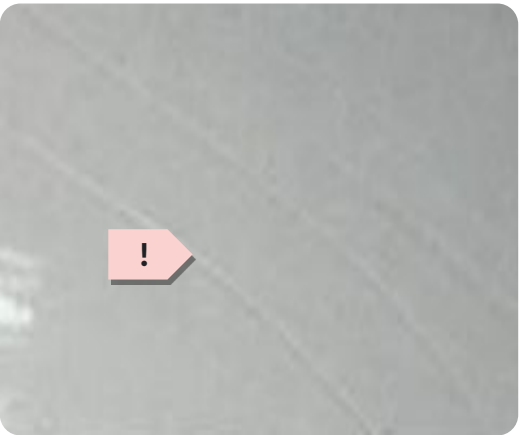
Examples of unacceptable battery conditions that aren't suitable for repair*



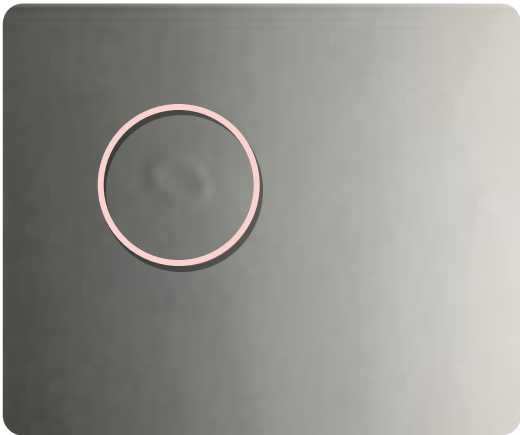
Pouch damage



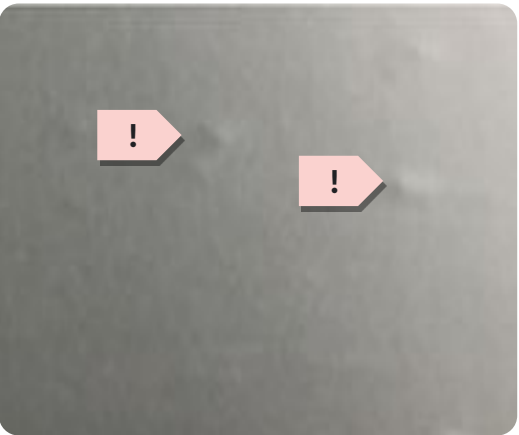
Line protrusion



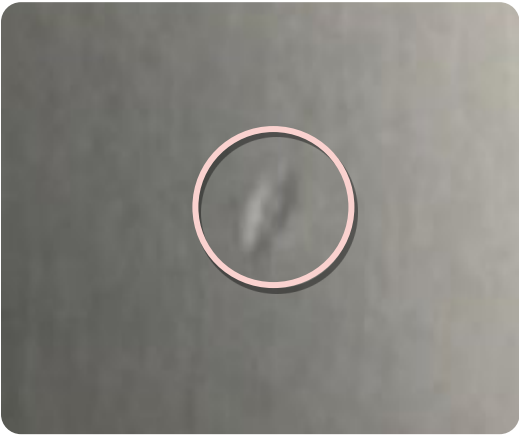
Scratch



Contamination mark



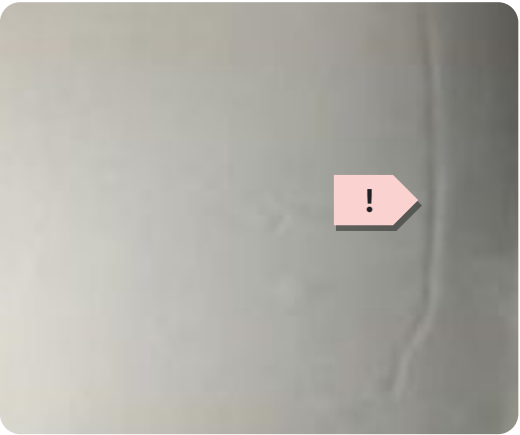
Dot protrusion



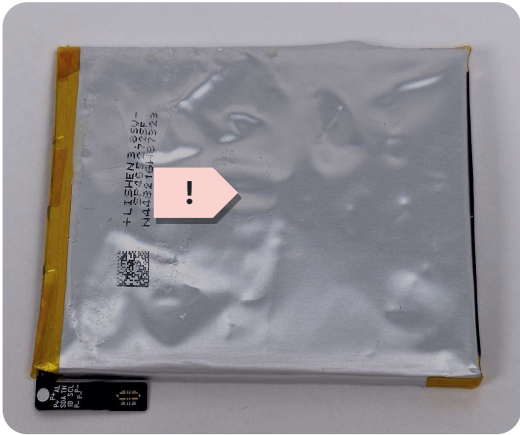
Dent



Bubbling



Imprinted line



Swelling or electrolyte leakage

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



Pixel 10 Pro Fold repair manual

Introduction

Expanded views

Turn the Pixel on and off

Screw map

Tools and fixtures

Screen calibration

Replacement parts

ESD protection

Glossary

Liquid damage

indicators

Pixel 10 Pro Fold part ID

Pixel 10 Pro Fold: Expanded view

Reuse indications



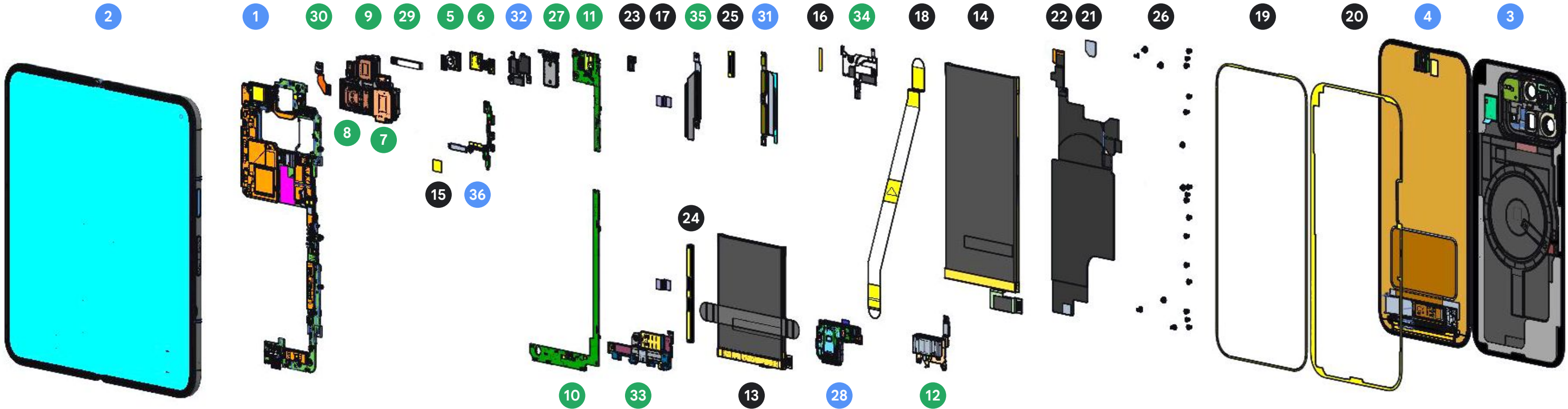
Reusable without cleaning



Reusable after cleaning



Not reusable after disassembly



1	● Logic board	7	● Rear camera_TELE	13	● Base battery	19	● OD(Outer display) PSA	25	● Top rubber	31	● Flip bridge cowling
2	● ID(Inner display) sub	8	● Rear camera_UW	14	● Flip battery	20	● BG(Back glass) PSA	26	● Screw	32	● Inner FCAM cowling
3	● BG (Back glass) sub	9	● Rear camera_WIDE	15	● FPS kapton	21	● RF sponge	27	● SIM tray	33	● OD(Outer display) cowling
4	● OD(Outer display) sub	10	● Lower board	16	● Cable kapton	22	● Graphite sheet	28	● Bottom speaker	34	● mmWave cowling
5	● Outer FCAM	11	● Upper board	17	● Conductive tape *2	23	● PL rubber	29	● mmWave module	35	● Base bridge cowling
6	● Inner FCAM	12	● Vibrator with cowling	18	● Flip Battery jacket	24	● Bottom rubber	30	● IF FPC	36	● ID(Inner display) cowling

Screw map

These are the screws used in the Pixel 10 Pro Fold:

Screw
G250-06623-00



Screw
G250-06986-00



Screw
G250-08002-10



Screw
G250-08003-10



Screw
G250-08004-20



Screw
G250-08005-12



Screw
G250-08248-00



Screw
G250-08005-21





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: (0.8, 0.9, or 1.2)
±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.

 - Not hidden

 - Hidden



Inner display touch screen calibration process

Important!

Complete the following before you boot up the device:

- Except for the inner display **pre-installed user protective film**, nothing should touch the inner display. This includes protective films, cases, fingers, tape, labels, scratch covers, adhesives, and debris.
- The device should be in **unfold** mode and open completely.
- The device should be on a flat surface. *Don't* hold it in your hands.

After the above conditions are met, press the power button and 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 might not work as intended.



ESD protection

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

Follow these four steps to keep ESD safe:



Stay grounded

Carry out repairs on an ESD mat, and 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.



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.



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.

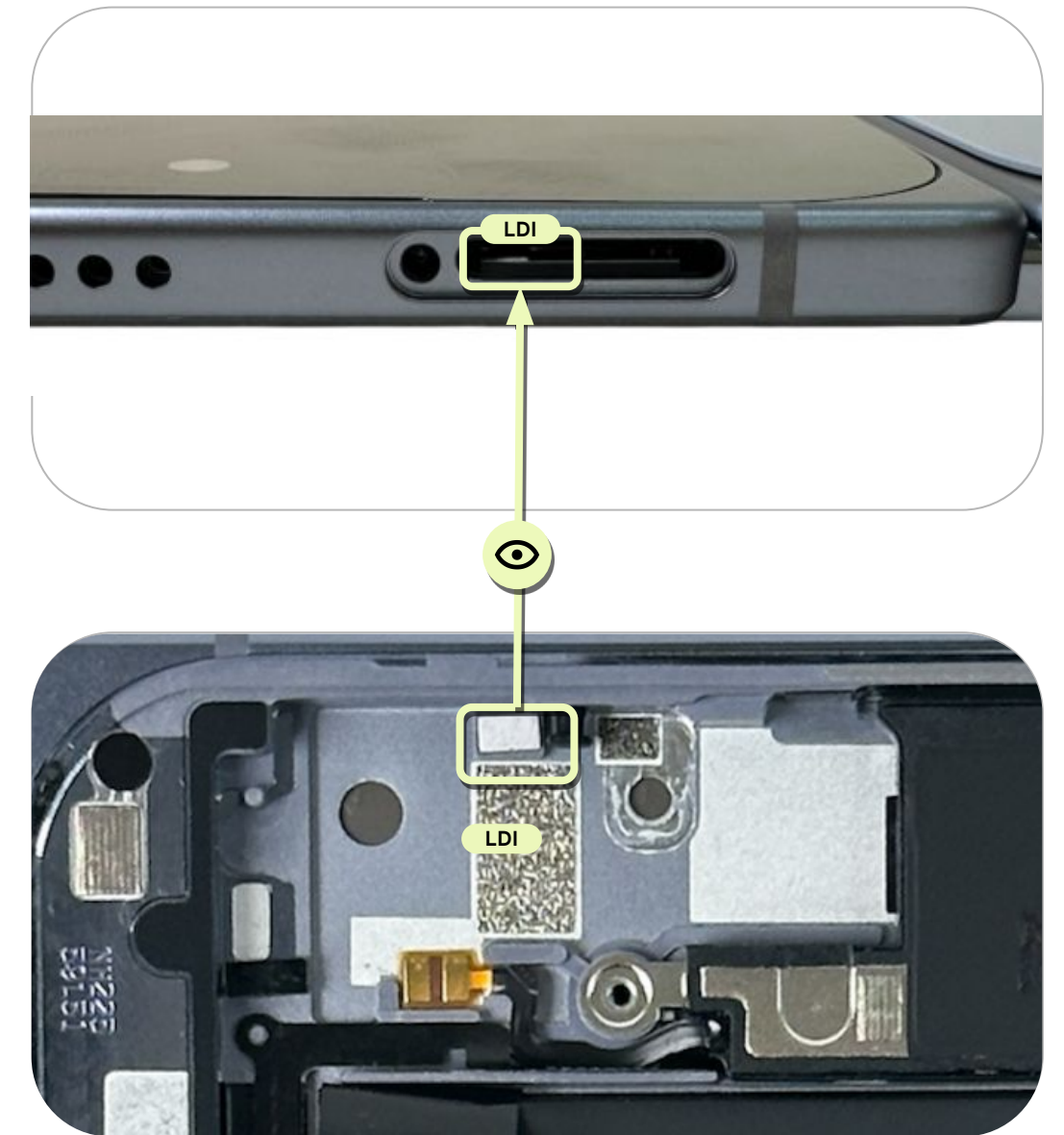
Liquid damage indicators

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 **two LDIs** on this device.
- If either indicator has turned red, the device is considered to have been exposed to liquid.



On the logic board, near the charging port.



The SIM card tray on the flip enclosure is visible without disassembly of the device.

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



Restart 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 might result in injury to yourself, the user of the device or other third parties, along with the damage to the product, tools, fixtures, replacement parts, or other spare parts.

Google-approved fixtures: Pixel 10 Pro Fold

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

Universal press

G940-00733-00



Universal press plate 12 mm

G940-00736-00



Universal base plate 12 mm

G940-00833-01



Universal large scraper

G940-00850-00



Pixel universal disassembly fixture V3 - base

G940-00873-00



Pixel 10 Pro Fold spare device clip - universal daisy fixture V3

G940-01029-00



Universal holder #2

G940-01014-00



Universal holder limiting block #2

G940-01016-00



Universal supporting rubber #2

G940-01015-00



Universal ID PF or trim supporting rubber

G940-01022-00



Tools and fixtures

Google-approved fixtures: Pixel 10 Pro Fold

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

Pixel 10 Pro Fold battery press rubber (base side)
G940-01018-00

A black, T-shaped rubber fixture used for pressing the battery on the base side of the Pixel 10 Pro Fold. It has a wide top bar and a narrower stem.

Pixel 10 Pro Fold battery press rubber (flip side)
G940-01019-00

A black, rectangular rubber fixture with a complex, notched shape used for pressing the battery on the flip side of the Pixel 10 Pro Fold.

Pixel 10 Pro Fold BG press rubber
G940-01020-00

A black, rectangular rubber fixture with a central rectangular cutout and four small circular indentations, used for pressing the BG component.

Pixel 10 Pro Fold OD press rubber
G940-01021-00

A black, rectangular rubber fixture with a central rectangular cutout and four small circular indentations, used for pressing the OD component.

Pixel 10 Pro Fold thermal grease alignment fixture-1
G940-01026-01

A small, black, L-shaped alignment fixture used for applying thermal grease.

Pixel 10 Pro Fold thermal grease alignment fixture-2
G940-01026-01

A black, L-shaped alignment fixture with a circular hole, used for applying thermal grease.

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



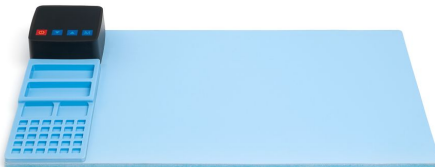
Adjustable torque
screwdriver
Hex shank torx plus bit 3



SIM card ejection pin



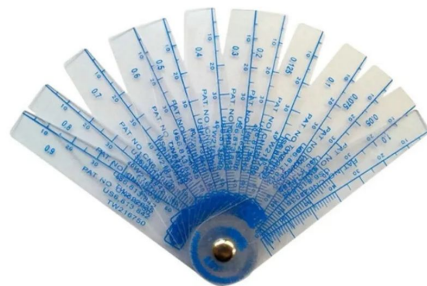
Heat plate



Absorption-bulb



Feeler gauge
*Help with upper or lower board
disassembly*



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



Masking tape
Help with battery disassembly.



Screen protector
accessories



Safety items

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

Safety glasses



Heat resistant protective gloves



Cut resistant protective gloves



Nitrile or lint-free gloves



Sand bucket





Replacement parts

Important notice about replacement parts

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



Use caution

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

Replacement parts

Reuse indications



Reusable without
cleaning



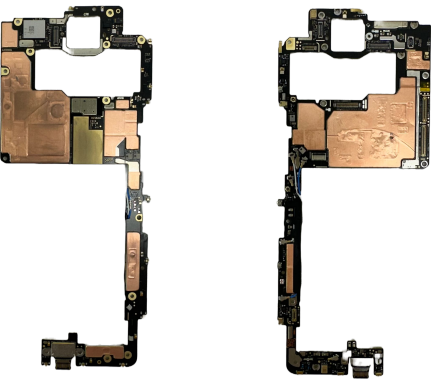
Reusable after
cleaning



Not reusable
after disassembly

Logic board

Multiple part numbers



Inner display sub

Multiple part numbers



BG sub

Multiple part numbers



Outer display

G949-01528-00



Outer FCAM

G949-01529-00



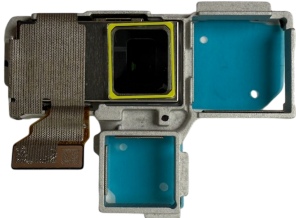
Inner FCAM

G949-01530-00



Rear camera_tele

G949-01531-00



Rear camera_UW

G949-01532-00



Rear camera_WIDE

G949-01533-00



Lower board

G949-01534-00



Upper board

G949-01535-00



Vibrator with cowling

G949-01536-00



Replacement parts

Reuse indications



Reusable without cleaning



Reusable after cleaning



Not reusable after disassembly

Flip battery

Multiple part numbers



Base battery

Multiple part numbers



Sidekey module

(included in inner display sub)

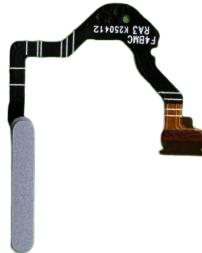
G949-01541-00



Fingerprint sensor module

(included in inner display sub)

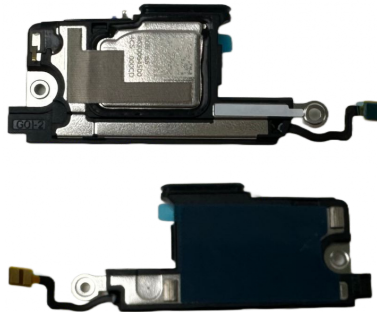
Multiple part numbers



Top speaker with ANT4 FPC

(included in inner display sub)

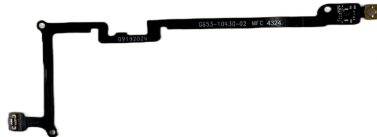
G949-01544-00



ANT1 FPC

(included in inner display sub)

G949-01545-00



FPS Kapton

G806-14456-01



Cable Kapton

G806-13991-01



Conductive tape*2

G806-14472-00



Flip battery jacket

G806-14434-00



OD PSA

G806-14480-00



BG PSA

G806-14457-00



Replacement parts

Reuse indications



Reusable without cleaning



Reusable after cleaning



Not reusable after disassembly

RF sponge

G806-15352-00



Graphite sheet

G864-01067-00



PL rubber

G806-14452-01



Bottom rubber

G806-15616-00



Top rubber

G806-15617-00



Screw

G250-06623-00



Screw

G250-06986-00



Screw

G250-08002-10



Screw

G250-08003-10



Screw

G250-08004-20



Screw

G250-08005-12



Screw

G250-08005-21



Replacement parts

Reuse indications



Reusable without cleaning



Reusable after cleaning



Not reusable after disassembly

Screw

G250-08248-00



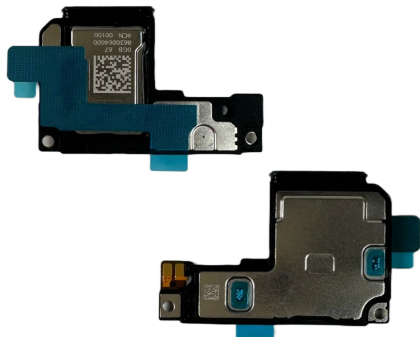
SIM tray

Multiple part numbers



Bottom speaker

G863-00646-00



mmWave module

G345-01633-02



IF FPC

G652-10426-01



Flip bridge cowling

G730-09662-00



FCAM cowling

G730-09675-00



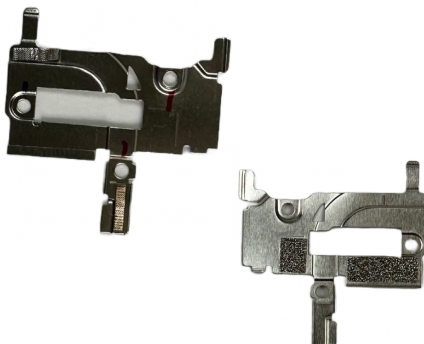
OD cowling

G730-09622-01



mmWave cowling

G730-09676-00



Base bridge cowling

G730-09678-00



ID cowling

G730-09680-00



Coaxial cable_RCAM

G821-01179-00



Replacement parts

Reuse indications



Reusable without cleaning



Reusable after cleaning



Not reusable after disassembly

ANT1 bracket

G730-09634-01



FPS support

G730-09651-01



FPS spacer-1

G730-09645-01



FPS spacer-2

G852-05081-01



VOL spacer*2

G852-05079-01



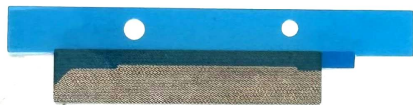
5G thermal pad

G864-01047-00



Conductive tape

G806-14461-00



Conductive tape

G806-14375-00



Flip battery PSA

G806-15380-01



Base battery PSA

G806-15394-00



Flip battery bond PSA

G806-17439-01



Lower PCB PSA-1*2

G806-13629-01



Replacement parts

Reuse indications



Reusable without
cleaning



Reusable after
cleaning



Not reusable
after disassembly

Lower PCB PSA-2*2

G806-13630-01



Lower PCB PSA-3

G806-13631-01



Lower PCB PSA-6

G806-14387-01



Upper PCB PSA

G806-14959-00



ANT1 PSA 1

G806-13625-01



ANT1 PSA 2

G806-13626-01



ANT1 PSA 3

G806-13627-01



ANT1 CPSA

G806-13628-01



ID cowling PSA

G806-14384-00



Bottom speaker CPSA

G806-13932-00



Pad PSA

G806-14307-01



TSPK CPSA

G806-14305-00



Replacement parts

Reuse indications

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

Mic mesh*2
G806-14011-00



Inner FCAM foam
G806-13943-00



VOL CPSA_top
G806-13930-00



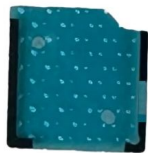
VOL CPSA_bottom
G806-13931-00



FPS flex CPSA
G806-13929-00



UW cam bracket
PSA
G806-13993-02



WIDE cam bracket
PSA
G806-13994-01



Alignment mylar
G806-16220-00



*Material expires

Thermal grease*
G160-01058-00



Rear camera_WIDE
G806-14592-00



Rear camera_UW
G806-14593-00



Rear camera_tele
G806-14594-00



Replacement parts

Reuse indications



Reusable without cleaning



Reusable after cleaning



Not reusable after disassembly

User PF

G806-14356-99



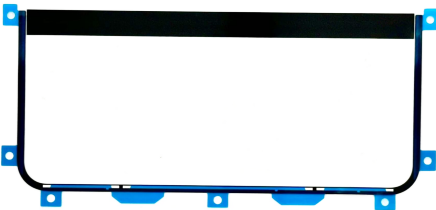
Guide sticker

G806-13134-00



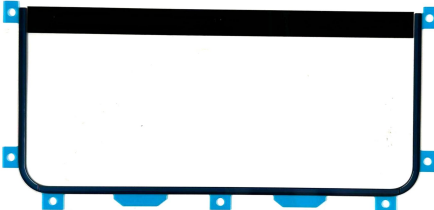
Trim base

G730-09903-00



Trim flip

G730-09911-00





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)ScreenDisplay
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: MLBMain Logic BoardMain BoardPCBA
Microphone	The component used to capture audio to make a call, video, or dictate some notes. Also known as: MicMic 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 coverBack coverBottom caseBack 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 indicatorLDI
FOF	Fabric-Over-Foam

Glossary

Acronym or term	Definition
Camera	Camera modules include the front camera and rear cameras. Also known as: CAM FCAM RCAM
Pressure sensitive adhesive	The adhesive that is used to bond the enclosure and display module, battery and enclosure, or other parts. Also known as: PSA
UDFPS	Under Display FingerPrint Sensor Also known as: Fingerprint sensor
TS	Temperature Sensor
Release liner	This is a tool used to transport sensitive parts, including adhesives. It needs to be removed during installation for the device to function as intended.
UW	Ultra Wide
LDAF	Laser Detect Auto Focus
NFC	Near Field Communication
IF	Intermediate Frequency
PF	Protective Film

Glossary

Acronym or term	Definition
RF	Radio Frequency
GPS	Global Positioning System
PSA	Pressure Sensitive Adhesive
WIDE	Wide Angle Lens
FPS	Finger Print Sensor
PL	Proximity-Light
ANT	Antenna
VOL	Volume
PCB	Printed Circuit Board
CPSA	Conductive Pressure Sensitive Adhesive
TSPK	Top Speaker
TP	Touch Panel



Pixel 10 Pro Fold repair manual

User PF Repair

Inner display protective film

Inner display trim

Inner display protective film

The user ID PF is intended to provide additional protection to the inner display during use of the device.



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, ensure to **power off** the device and disconnect any charging cables.



Tools

- Universal base plate 12 mm
- Universal holder #2
- Universal holder limiting block #2
- Universal press plate 12 mm
- Universal scraper-large
- Pixel 10 Pro Fold ID PF or trim supporting rubber

- Screen protector accessories
- Dust cleaning tool

✂ Required parts

Reuse indications



Reusable without
cleaning



Reusable after
cleaning



Not reusable
after disassembly

ID protective film replacement

Here’s the list of parts for the ID protective film disassembly.

User PF

G806-14356-99



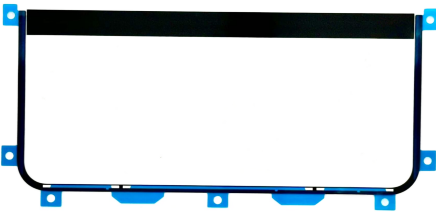
Guide sticker

G806-13134-00



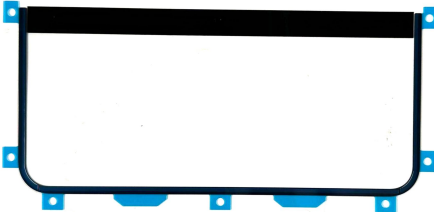
Trim base

G730-09903-00

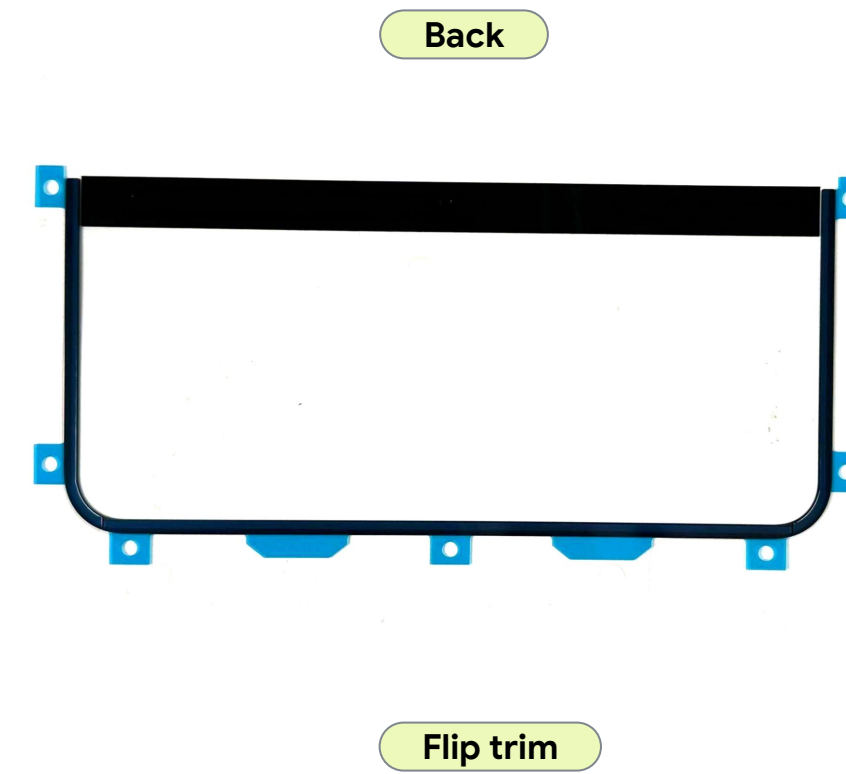
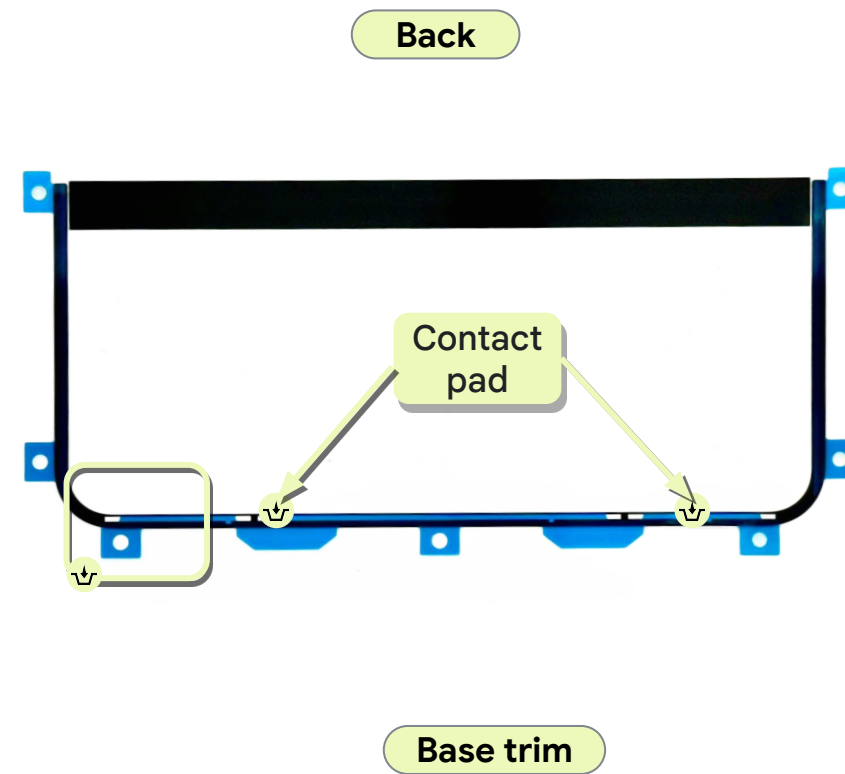


Trim flip

G730-09911-00

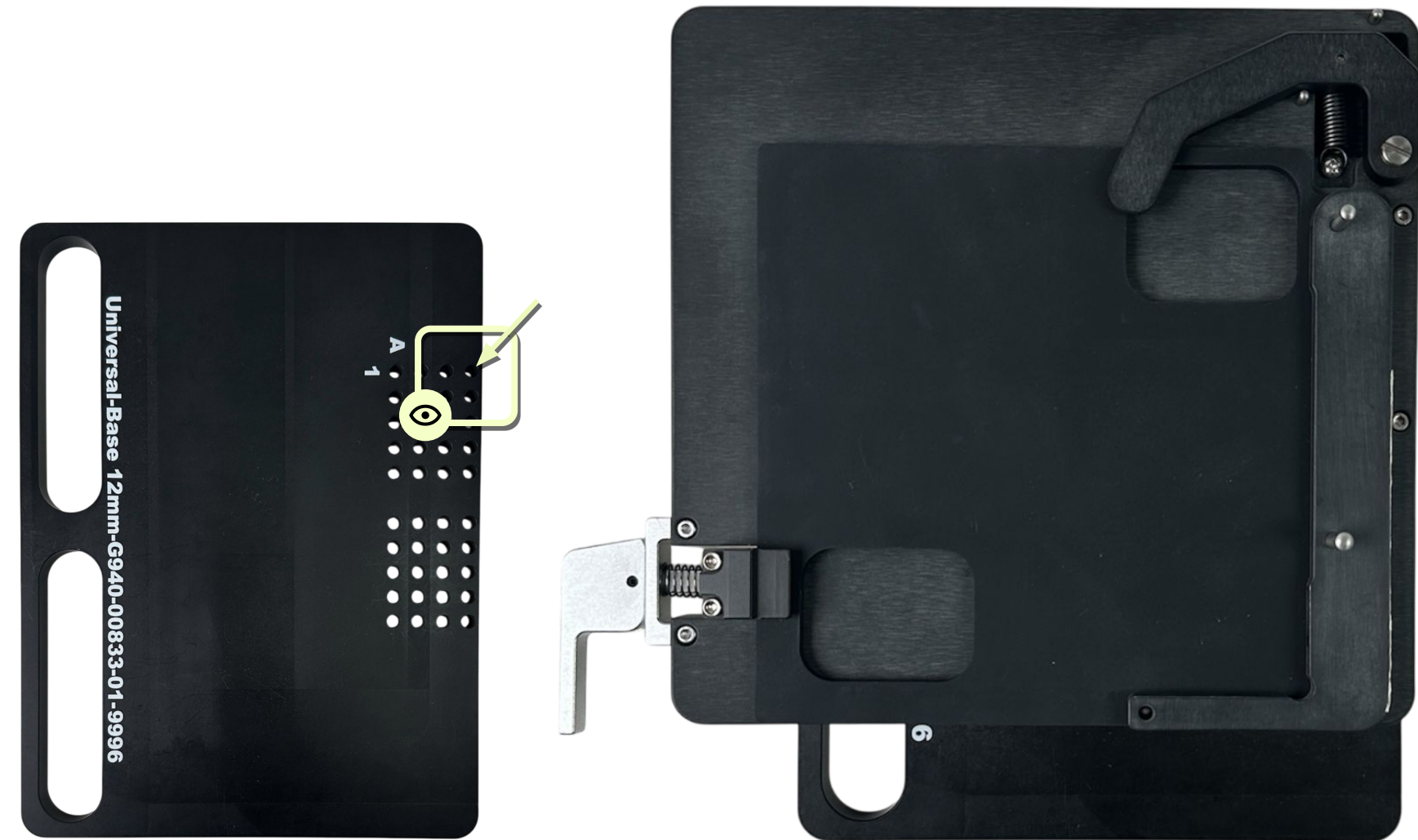


Trim difference



Prepare usage

- Place the **universal ID PF or trim supporting rubber** on the **universal holder #2**, and place the **universal holder limiting block #2** on top.
- Place the **fixture** in position **D1** on the **universal base**.



Remove the base and flip trims

- Make sure that the device is powered off before you proceed.
- Place the device in the **universal holder #2** with the inner display facing upward.
- Use a **spudger** and carefully lift the ends of both the **base** and **flip trim**, starting near the folding **hinge**.
- Remove the **flip trim** with your **hand**, and remove the **base trim** with your **hand**.
- Use a **spudger** to remove any adhesive residue from the **enclosure**.



Remove the user PF

- There are two **notched cutouts** on the upper and lower left of the **user PF**, as shown in **Fig 1**. Insert the **guide sticker liner** into one of them, as shown in **Fig 2**.
- Insert the plastic deeper to separate the **user PF** from the **ID**.
- Slowly tear off the user PF by **hand** and hold down the **ID**. Move the hand along to avoid the damage to the screen, as shown in **Fig 3**.



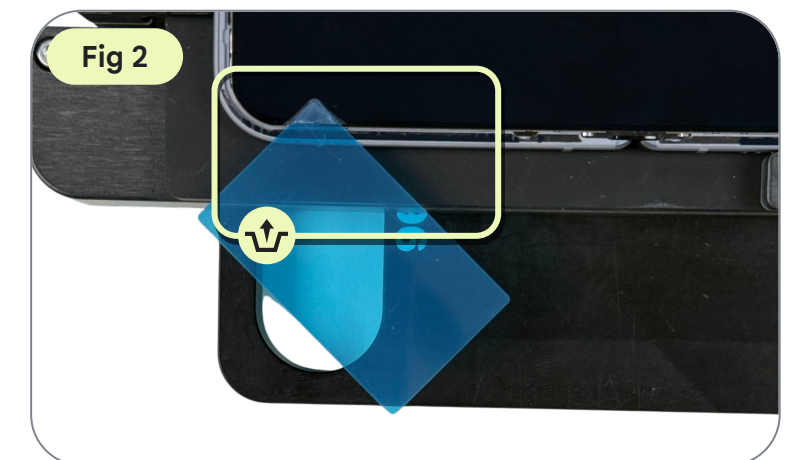
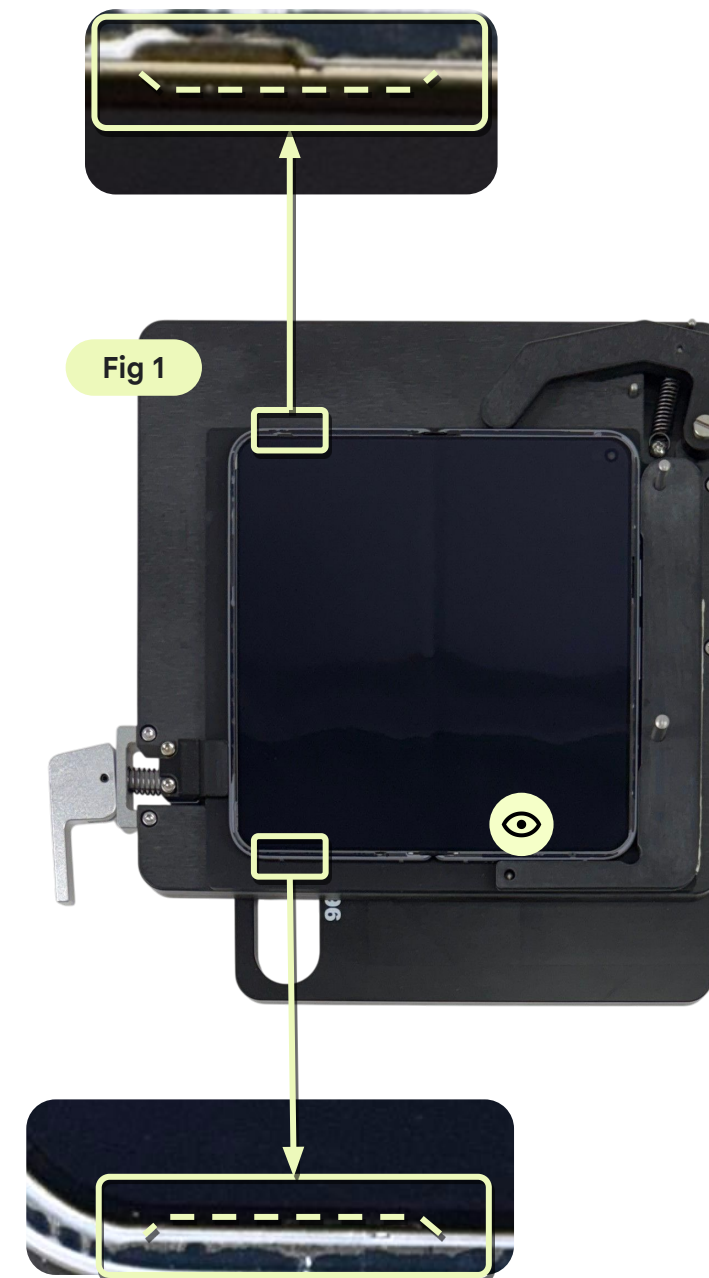
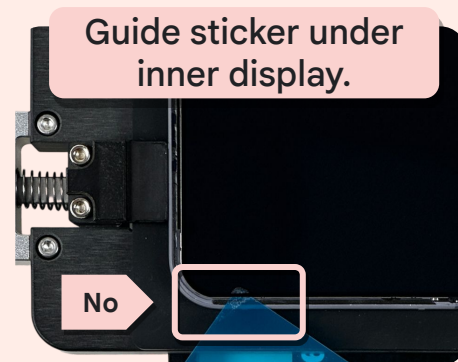
Note

Don't wear gloves when you handle the user PF.
Use a magnifying glass if needed.



Use caution

Peel off the **user PF** from the **notched cutouts** on the upper or lower left of the user PF to avoid the damage the **inner display**.



Clean the display

- Use **IPA** and a **dust-free cloth** to clean the screen of dust and residue.
- Use a dust cleaning tool and **screen protector accessories** to remove all dust from the display.



Use caution

Make sure that the environment is clean for this process.



Remove the release liners

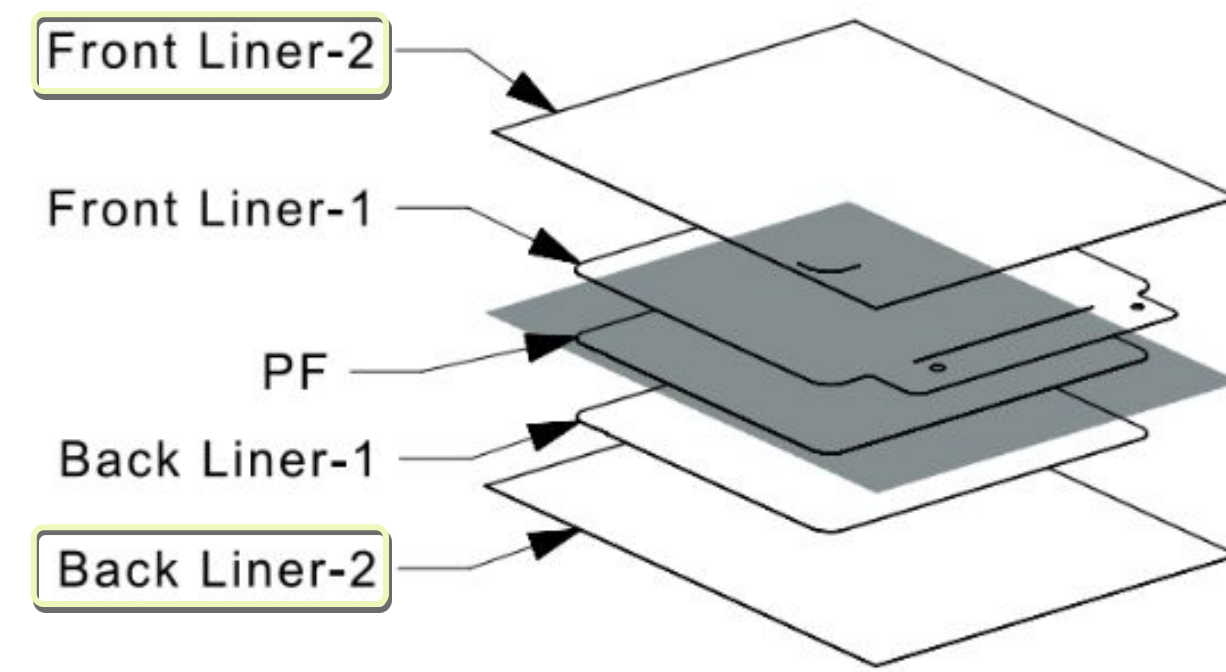
Slowly peel off the **front liner 2** and the **back liner 2** from the **user PF**.

Part: G806-14356-99 (user PF)



Use caution

Make sure that the environment is clean for this process.



Remove the back liner-1

- Gently peel the layered structure between **front liner-1**, **PF**, and **back liner-1** to identify the **back liner-1** side, as shown in **Fig 1**.
- Insert a **guide sticker** from the corner at a 45 degrees angle to peel the **black liner 1**, as shown in **Fig 2**.

Part: G806-13134-00 (guide sticker)



Use caution

Make sure that only one single layer, which is the back liner-1 is removed from the user PF.

Make sure that the environment is clean for this process.

Fig 1

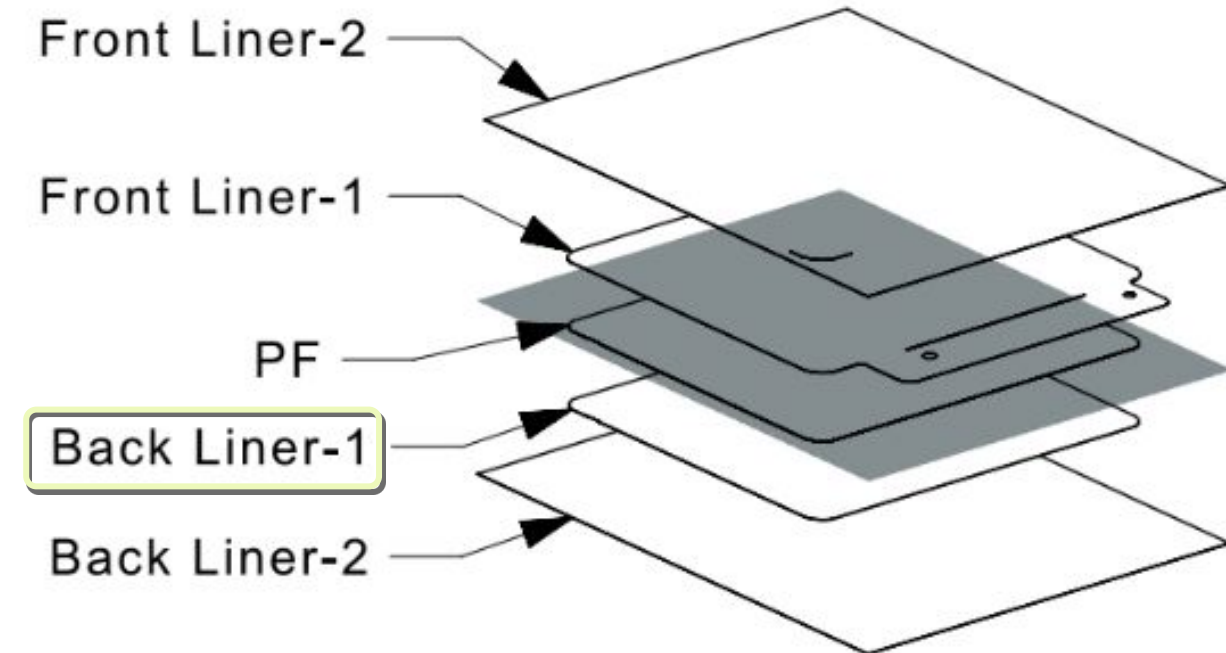
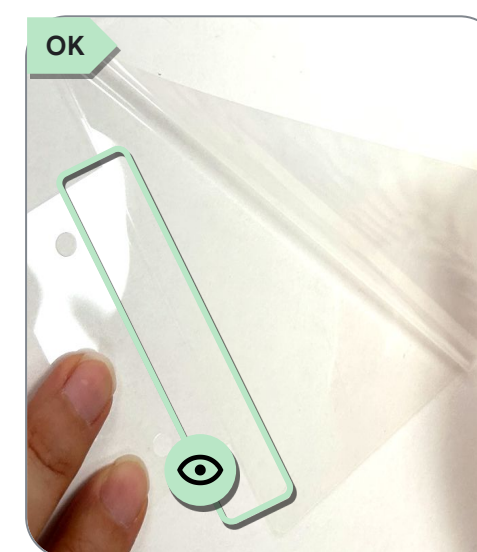
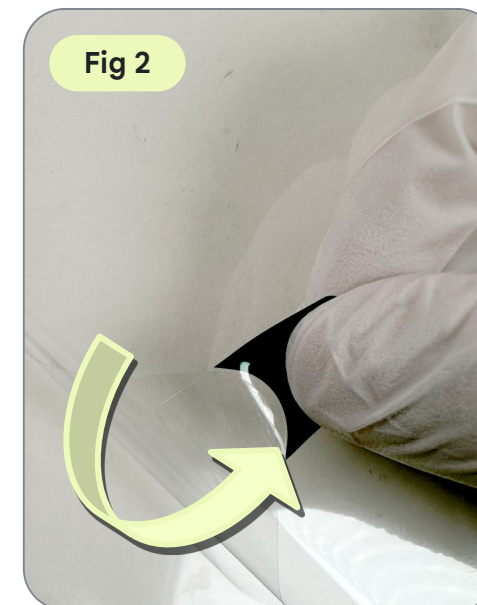
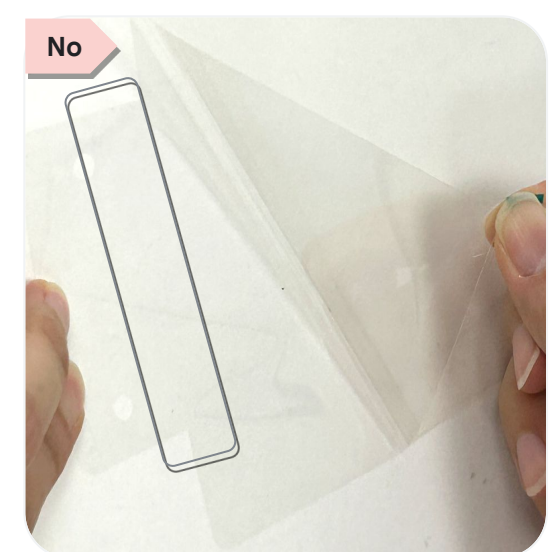


Fig 2



front liner-1 with user PF.



front liner-1 without user PF.

Align the PF with fixture

- Locate the two **Universal holder #2** alignment posts near the **inner display FCAM**.
- Place the guide plastic of the **user PF** through the posts, and ensure that there are no creases on the plastic around the posts.

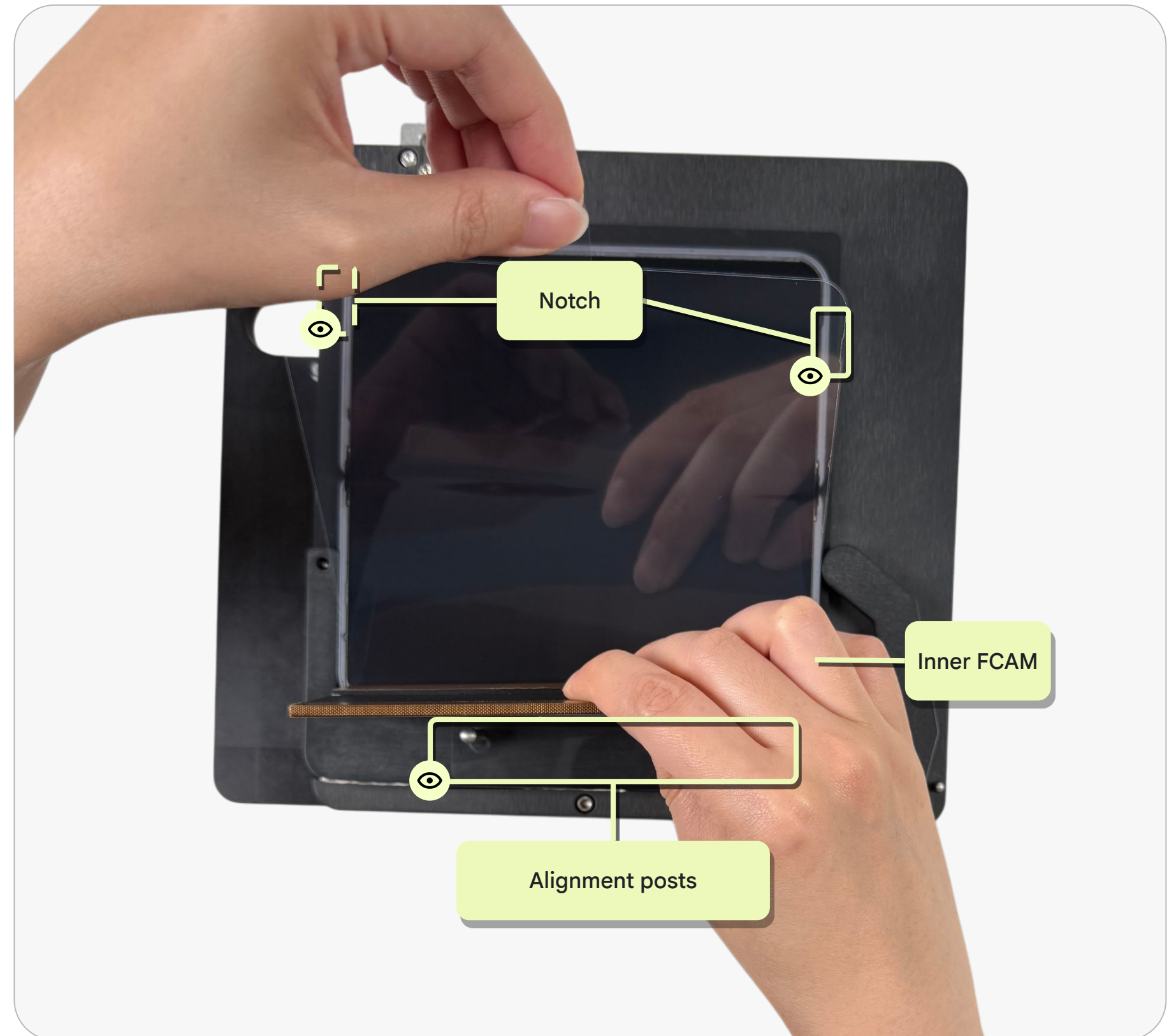
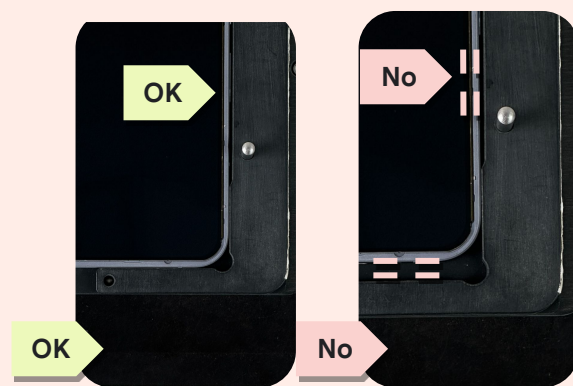
Part: G806-14356-99 (user PF)



Use caution

Make sure that the device leans on the L-shape limiting block without any gap.

Make sure that the environment is clean for this process.



Apply the PF

- Gently angle the **user PF** at a 75 degrees angle to the inner display with one **hand**.
- Align the **universal scraper-large** to the screen with the other hand.
- Starting from the edge, slowly apply the protective film onto the screen with the **universal scraper-large**. Move forward with moderate pressure.

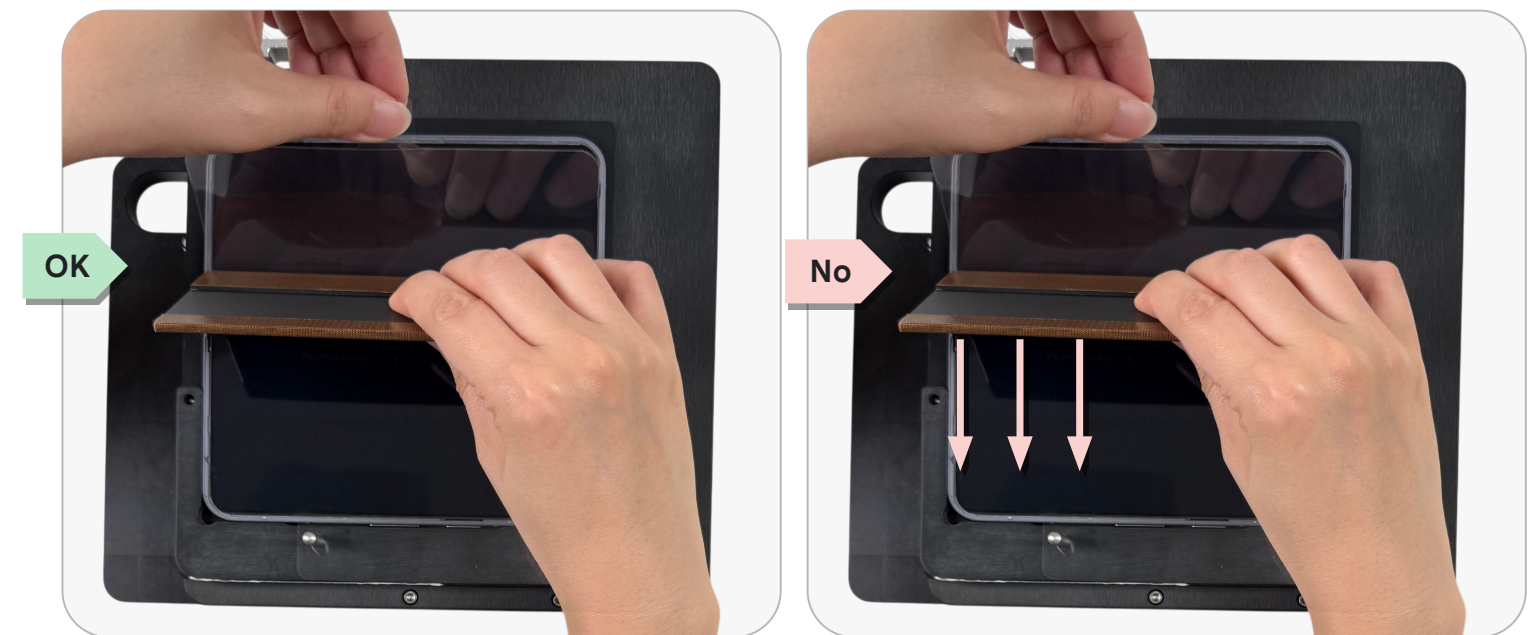
Part: G806-14356-99 (user PF)



Use caution

Make sure that the environment is clean for this process.

Avoid back-and-forth movements.



Apply the PF (continued)

- Glide the **universal scraper-large** on the **user PF** to wipe bubbles towards the edges of the PF, as shown in **Fig 1**.
- Use a **dust-free cloth** to gently press the hinge area and the four edges to ensure that the **user PF** adheres properly, as shown in **Fig 2**.

Part: G806-14356-99 (user PF)



Use caution

Make sure that the environment is clean for this process.

Fig 1



Fig 2



Remove the liner

After you attach the **user PF** to the **inner display**, wait for 5 minutes. Then, carefully peel off the front liner-1, and ensure that the PF stays attached.

Part: G806-14356-99 (user PF)



Note

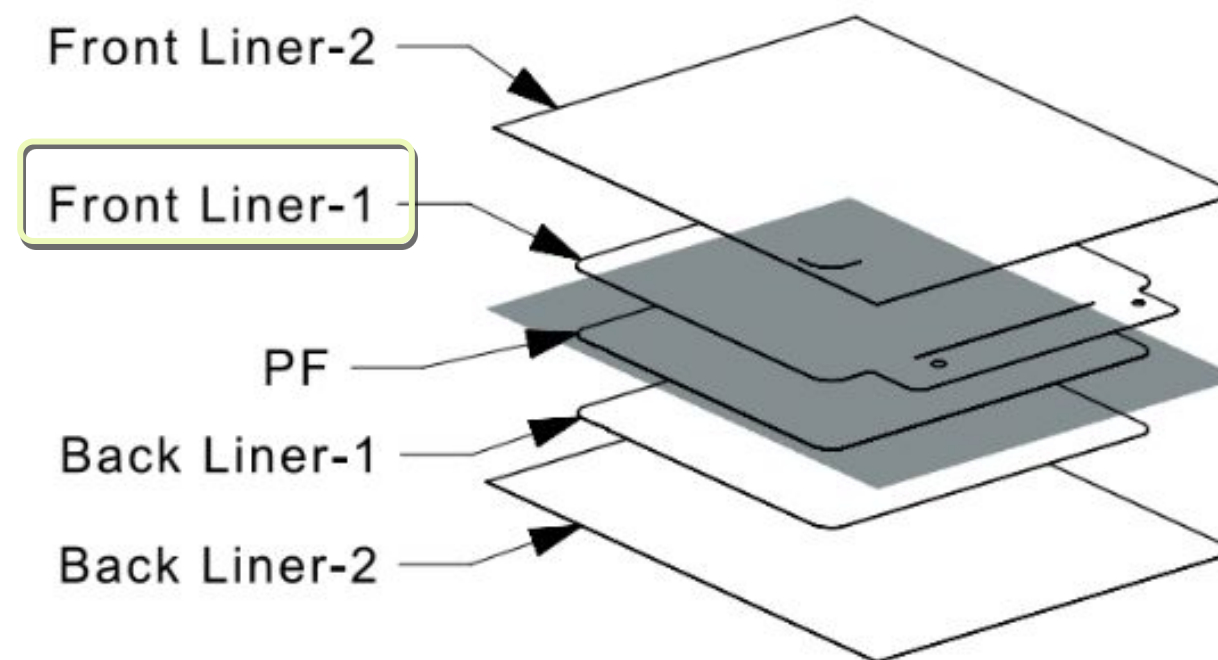
Wait for 5 minutes before you remove the front liner-1.



Use caution

The PF is prone to scratches after the front liner-1 is removed.

Don't use the universal scraper, other tools, or try to remove any blemishes after you remove the liner.



Keep the device unfolded

Keep the device unfolded for at least **an hour** after PF application.



Use caution

Avoid to fold or repair it during this time.

Don't use scrapers, dust-free cloth, or tools on the screen during the dwell period.



Inner display trim

Solution 1: use alignment fixture

Solution 1: use alignment fixture



Remove the base trim liner

- Slowly peel off the outer liner from the **base trim**, and move your other hand along.
- Use **ESD tweezers** to remove the trim and carefully grab the first blue release liner. Repeat for the second and third blue release liners.

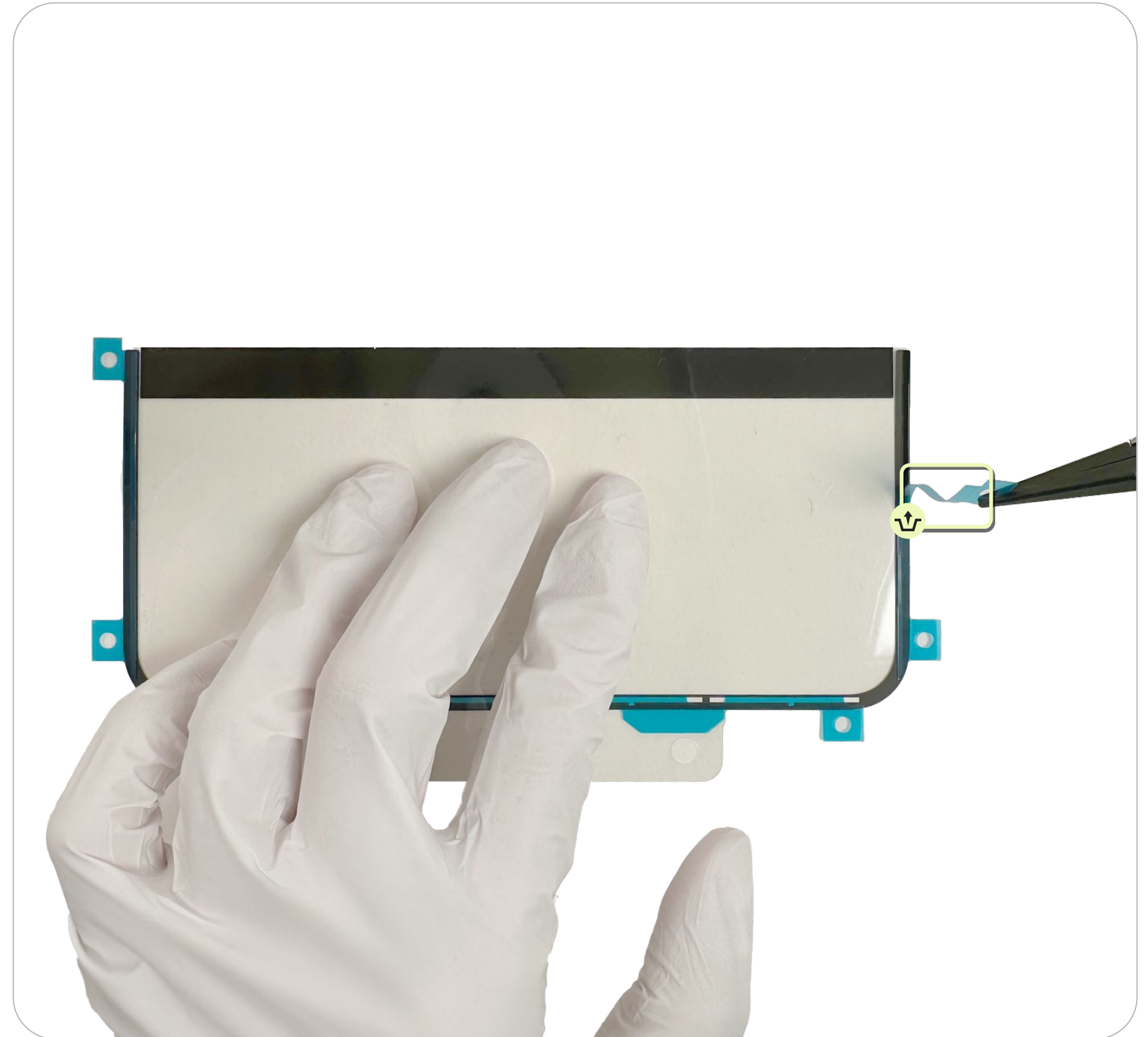
Part: G730-09903-00 (trim base)



Use caution

Make sure that the environment is clean for this process.

Be careful not to touch the trim or blue liner.



Solution 1: use alignment fixture



Place the base trim

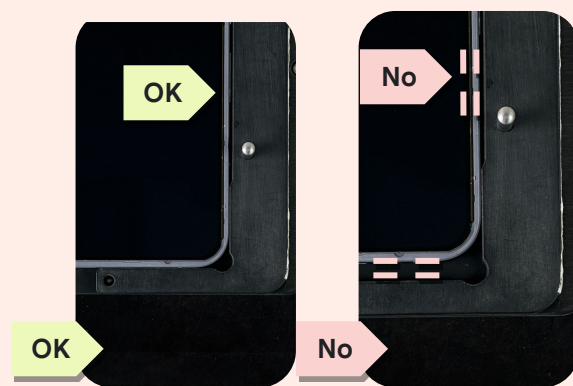
Place the guide plastic of the **base trim** through the **universal holder #2** alignment posts, and ensure that there are no creases on the plastic around the posts.



Use caution

Make sure that the device leans the L-shape limiting block without any gap.

Make sure that the environment is clean for this process.



Solution 1: use alignment fixture



Apply the base trim

- Allow the **base trim** to adhere naturally.
- Press the edges near the hinge on both sides.
- Push outward to ensure that the trim is in the groove.



Use caution

Make sure that the environment is clean for this process.



Solution 1: use alignment fixture



Remove the flip trim liner

- Slowly peel off the outer liner from the **flip trim**, and move your other hand along.
- Use **ESD tweezers** to remove the trim and carefully grab the first blue release liner. Repeat for the second and third blue release liners.

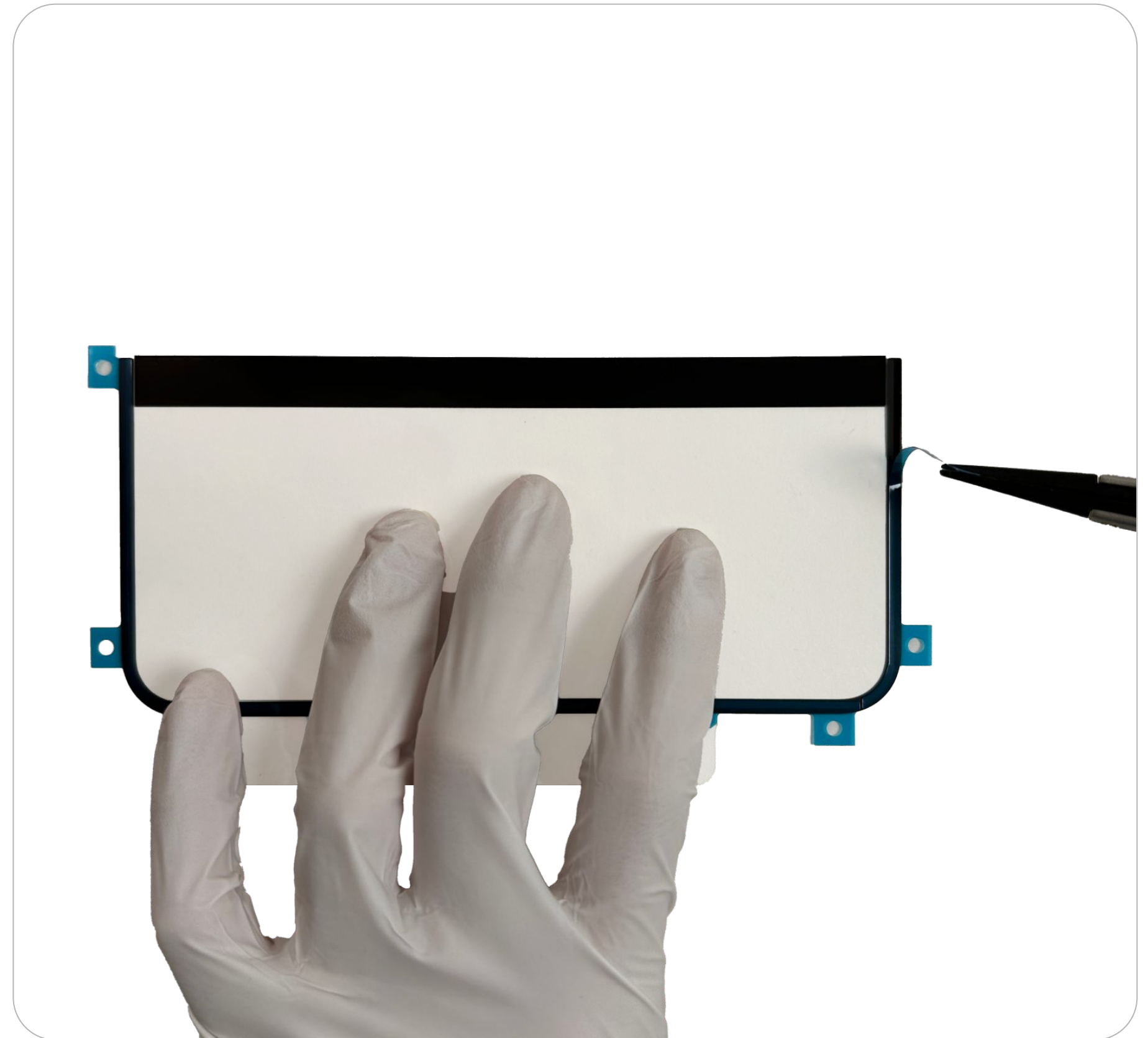
Part: G730-09911-00 (trim flip)



Use caution

Make sure that the environment is clean for this process.

Be careful not to touch the trim or blue liner.



Solution 1: use alignment fixture



Place the flip trim

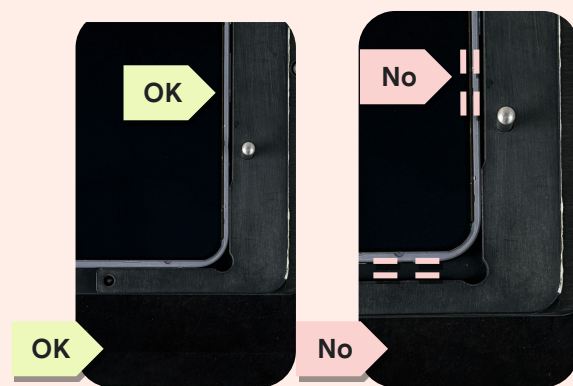
- Remove the device from the fixture, rotate 180 degrees, and place it back down on the fixture.
- Place the guide plastic of the **flip trim** through the **universal holder #2** alignment posts, and ensure that there are no creases on the plastic around the posts.



Use caution

Make sure that the device leans the L-shape limiting block without any gap.

Make sure that the environment is clean for this process.



Solution 1: use alignment fixture



Apply the flip trim

- Allow the **flip trim** to adhere naturally.
- Press the edges near the hinge on both sides.
- Push outward to ensure that the trim is in the groove.



Use caution

Make sure that the environment is clean for this process.



Solution 1: use alignment fixture



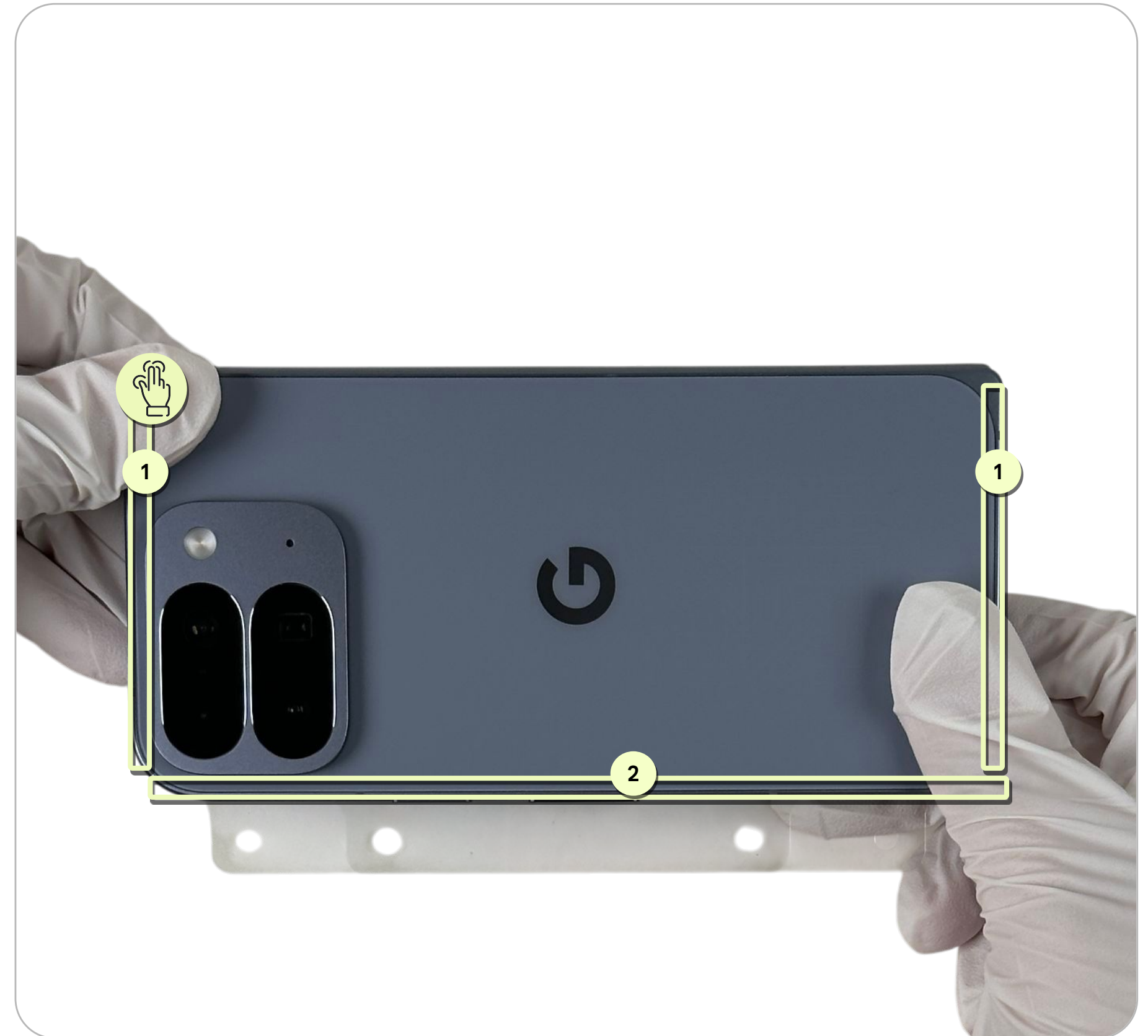
Press the base and flip trims

- Take the device out of the fixture.
- Fold the device and then press the first area for 20 seconds and press the second area for another 20 seconds to activate the **base and flip trim PSAs**.
- Unfold the device and gently remove both liners.



Use caution

Make sure that the environment is clean for this process.



Inner display trim

Solution 2: assemble manually

Solution 2: assemble manually



Remove the base trim liner

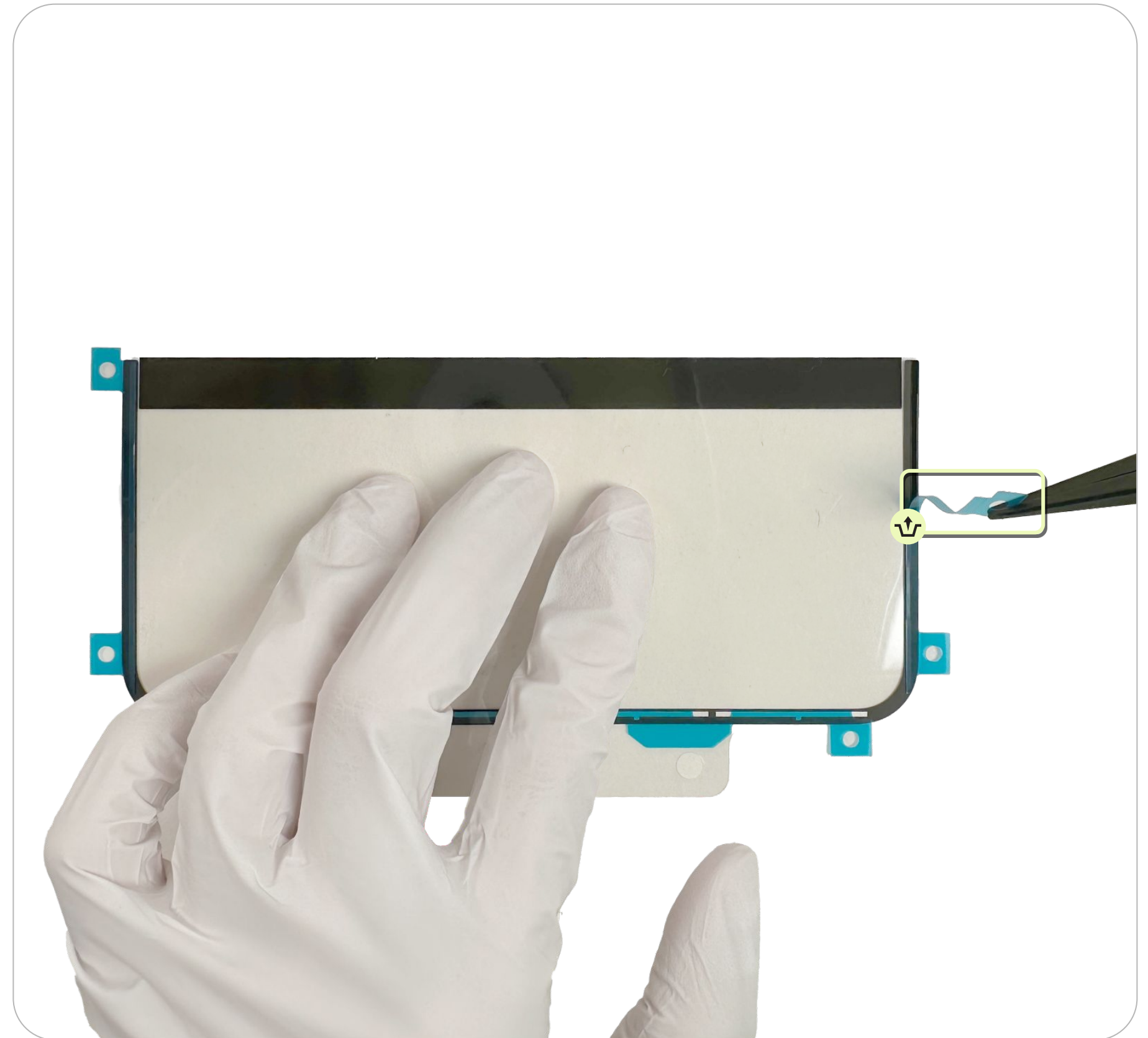
- Slowly peel off the outer liner from the **base trim**, and move your other hand along.
- Use **ESD tweezers** to remove the trim and carefully grab the first blue release liner. Repeat for the second and third blue release liners.

Part: G730-09903-00 (trim base)

Use caution

Make sure that the environment is clean for this process.

Be careful not to touch the trim or blue liner.



Solution 2: assemble manually



Place the base trim

Align the **base trim** with the lower left corner of the enclosure, and ensure that it sits flush within the frame.



Use caution

Make sure that the environment is clean for this process.



Solution 2: assemble manually



Apply the base trim

- Allow the **base trim** to adhere naturally.
- Press the edges near the hinge on both sides.
- Push outward to verify that the trim is in the groove.



Use caution

Make sure that the environment is clean for this process.



Solution 2: assemble manually



Remove the flip trim liner

- Slowly peel off the outer liner from the **flip trim**, move your other hand along.
- Use **ESD tweezers** to remove the trim and carefully grab the first blue release liner. Repeat for the second and third blue release liners.

Part: G730-09911-00 (trim flip)



Use caution

Make sure that the environment is clean for this process.

Be careful not to touch the trim or blue liner.



Solution 2: assemble manually



Place the flip trim

- Rotate the device 180 degrees.
- Align the flip trim with the lower left corner of the enclosure, also verify that it sits flush within the frame.



Use caution

Make sure that the environment is clean for this process.



Solution 2: assemble manually



Apply the flip trim

- Allow the **flip trim** to adhere naturally.
- Press the edges near the hinge on both sides.
- Push outward to ensure that the trim is in the groove.



Use caution

Make sure that the environment is clean for this process.



Solution 2: assemble manually



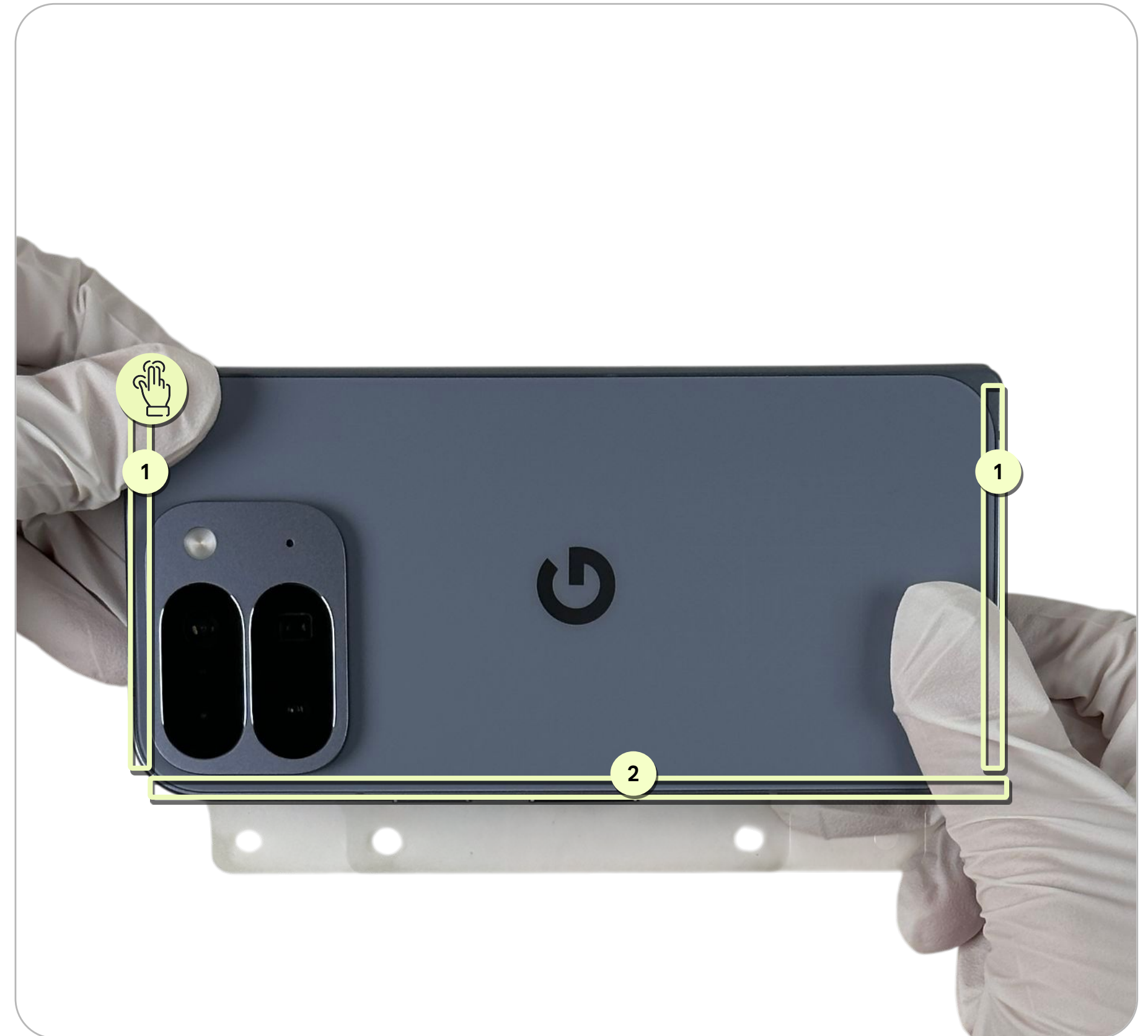
Press the base and flip trims

- Take the device out of the fixture.
- Fold the device and then press the first area for 20 seconds and press the second area for another 20 seconds to activate the **base and flip trim PSAs**.
- Unfold the device and gently remove both liners.



Use caution

Make sure that the environment is clean for this process.





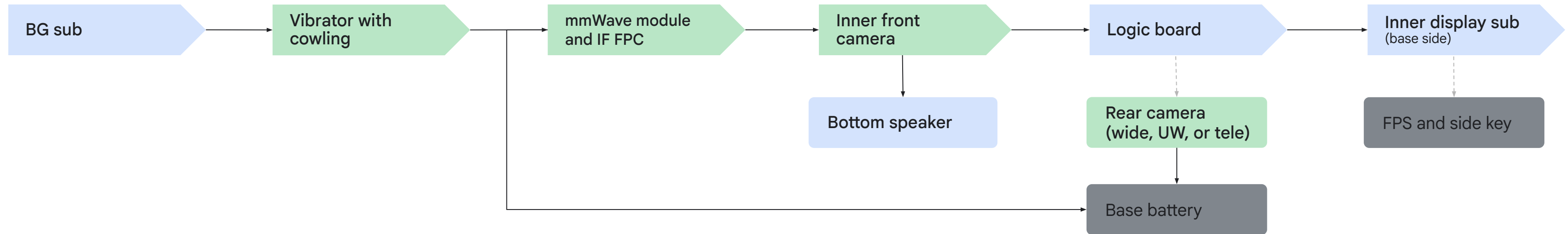
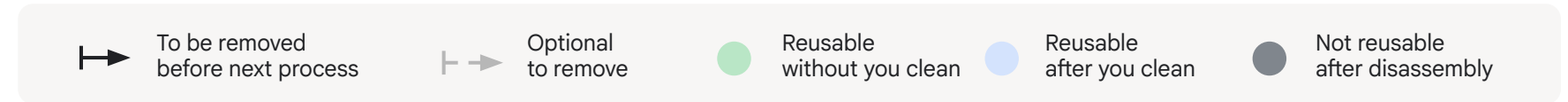
Pixel 10 Pro Fold repair manual

Repair flows

Disassembly order

Assembly order

Pixel 10 Pro Fold-base side (BG) disassembly flowchart



Base battery removal:

To make removal and replacement of the base battery easier: first take out the BG subassembly, then remove the vibrator with cowling, and finally, detach the base battery.

Pixel 10 Pro Fold-flip side (OD) disassembly flowchart



To be removed
before next process



Optional
to remove



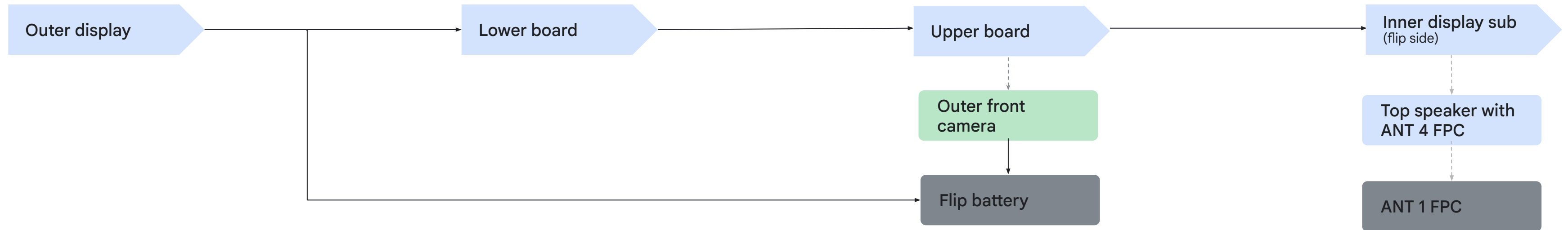
Reusable
without you clean



Reusable
after you clean



Not reusable
after disassembly



Flip battery removal:

To make removal and replacement of the flip battery easier:
first take out the outer display, and then the flip battery.

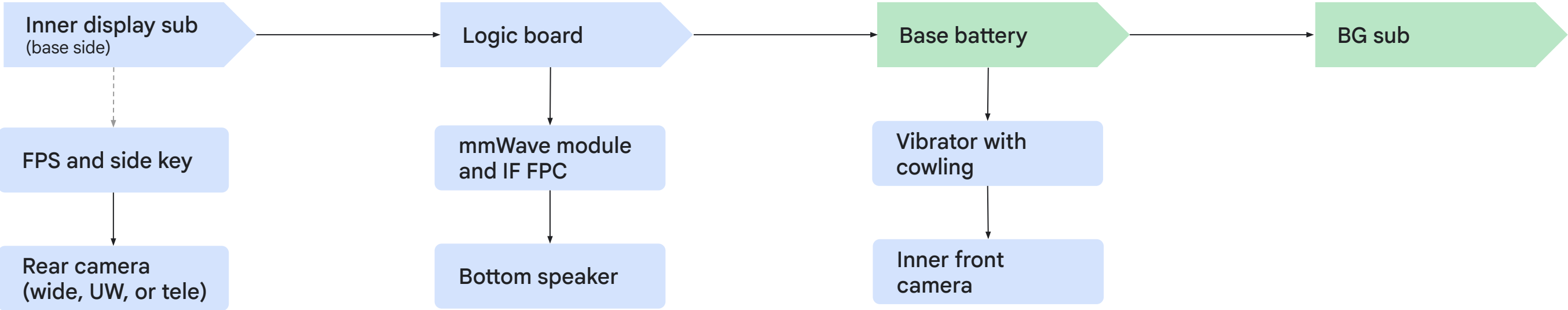


Note

The lower board and upper board are on the same
layer. You could remove them independently.

Pixel 10 Pro Fold-base side (BG) assembly flowchart

Assembled without a fixture Assembled with a fixture



Use caution

When you perform the inner display replacement, follow the sequence to assemble the base side then the flip side.



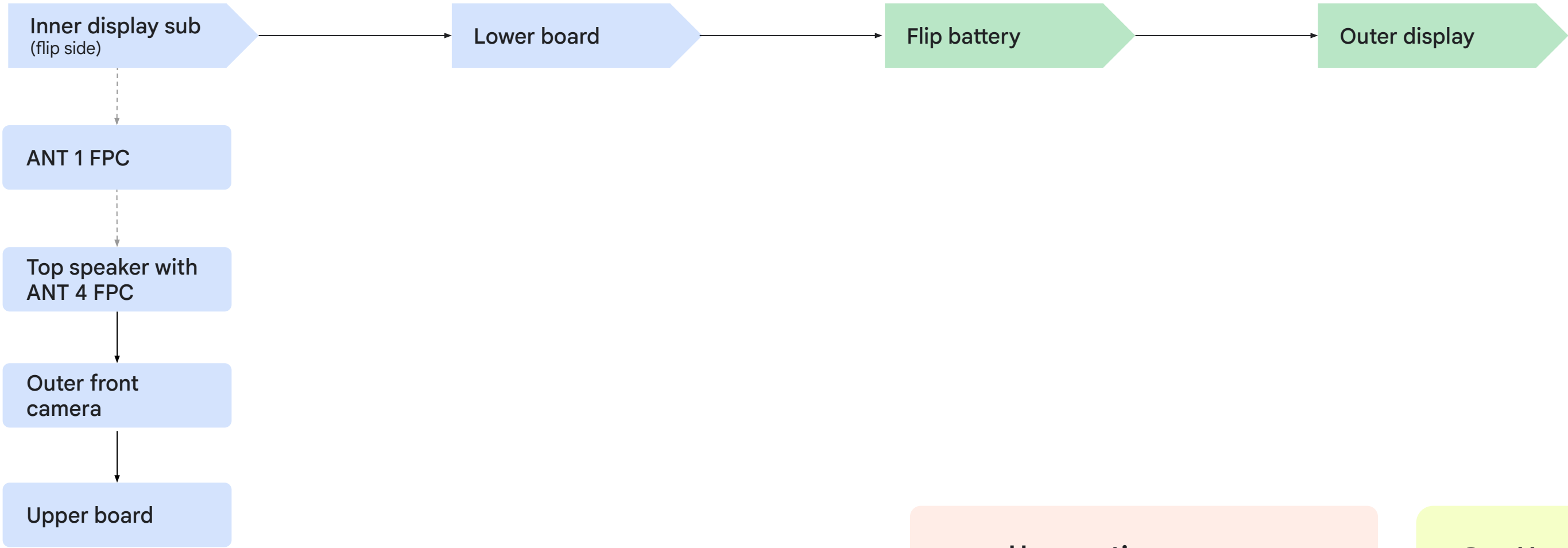
How to read this chart

- To reinstall the base battery:**
Install the base battery, vibrator with cowling, inner front camera, then the BG sub.
- To reinstall the logic board:**
Install the logic board, IF FPC or mmWave module, bottom speaker, base battery, vibrator with cowling, inner front camera, then the BG sub.
- New ID sub:**
The new inner display sub includes the FPS and the sidekey.

Pixel 10 Pro Fold-flip side (OD) assembly flowchart

Assembled without a fixture

Assembled with a fixture



Use caution

When you perform the inner display replacement, follow the sequence to the assembly base side then the flip side.



How to read this chart

- To reinstall the flip battery:**
Install the flip battery, then the outer display.
- To reinstall the lower board:**
Install the lower board, flip battery, then the outer display.
- New ID Sub:**
The new inner display sub includes the Ant 1 FPC and top speaker with Ant 4 FPC.



Pixel 10 Pro Fold repair manual

Disassembly-base

BG sub

Inner front camera

Rear camera

Vibrator with cowling

Bottom speaker

Base battery

mmWave module and IF

Logic board

Inner display sub

FPC



Disassembly instructions

BG (back glass) sub

The inner front camera cowling makes sure that connectors remain engaged with the logic board and acts as a heatsink.



Use caution

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

Apply protective film to the broken glass before removal.

Review all safety precautions before you begin work.



Prerequisites

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



Tools

Universal holder #2

Universal holder limiting block #2

Pixel 10 Pro Fold-BG press rubber

Pixel universal base plate 12 mm

Universal press pate 12 mm

Universal press fixture

Universal supporting rubber

Torx plus 3IP screwdriver

Tweezers

Spudger

Opening pick

Big suction cup

3M AP111 primer

Absorption-bulb

Feeler gauge 0.2t

 Required parts

BG sub replacement

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

Reuse indications



Reusable without
you clean



Reusable after
you clean



Not reusable
after disassembly

BG sub

Multiple part numbers



BG PSA

G806-14457-00



FCAM cowling

G730-09675-00



Screw

G250-08004-20



Alignment mylar

G806-16220-00



Avoid the spring damage

Before you remove the BG sub, be aware of the springs underneath, refer to the figure for locations.



Use caution

Avoid damage to the springs during disassembly.



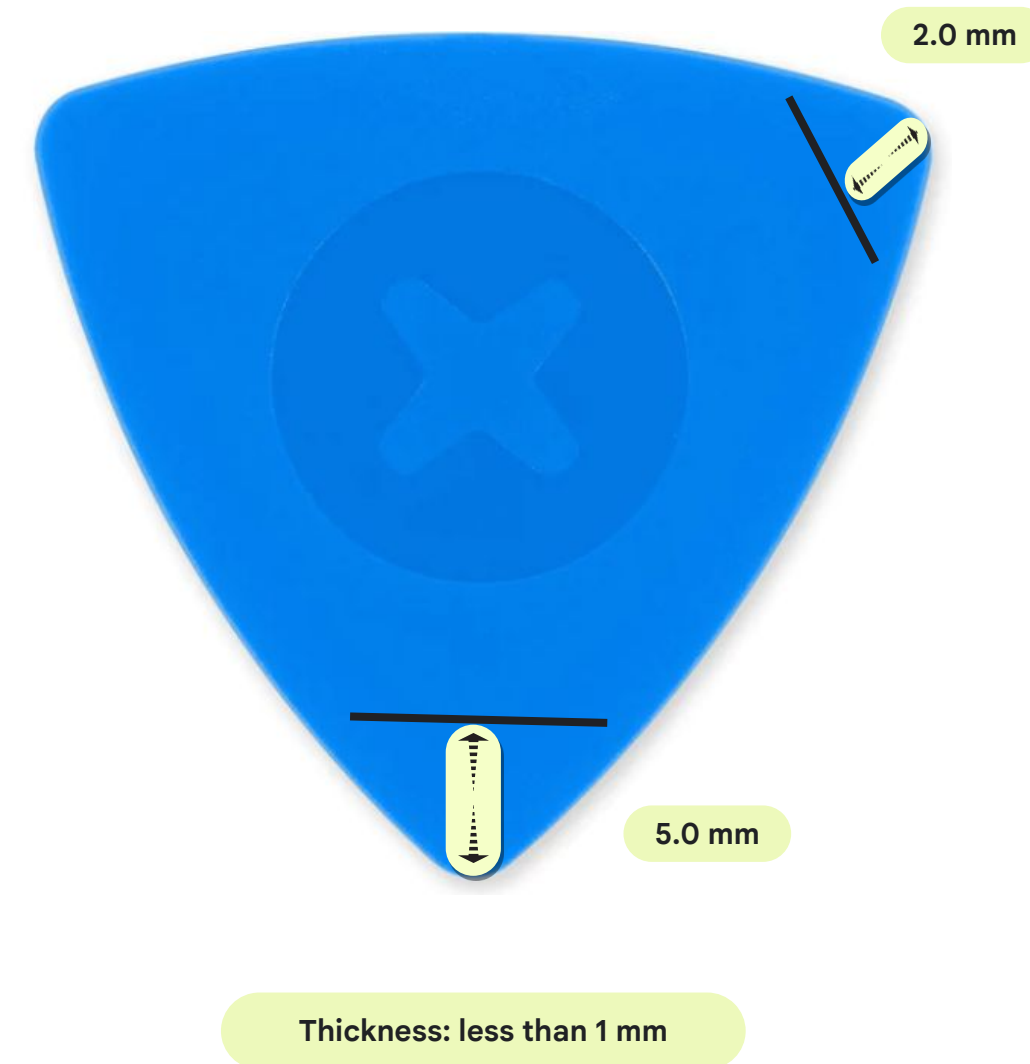
Mark the opening pick

- Use an opening pick to separate the BG from the enclosure. If you insert it too far, it could damage the device.
- The device has two adhesive widths. Measure 2.0 mm and 5 mm from the tip and mark the opening pick with a permanent mark.



Use caution

Follow the steps to mark your pick and prevent damage.



Separate the BG

- Use caution when you separate the adhesive to avoid damage to the spring contacts.
- Apply a suction cup to the BG, close to the USB side, as shown in **Fig 1**.
- Hold the device and pull up the suction cup forcefully until a gap appears, then insert an opening pick into the gap, as shown in **Fig 3**.



Use caution

Don't insert your opening pick deeper than 2.0 mm when you separate the adhesive, as it risks damaging the spring contacts.

Fig 1



Fig 2

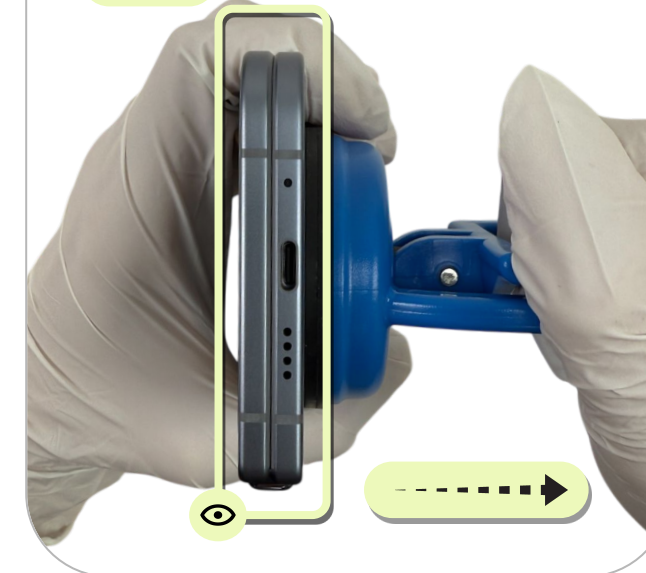


Fig 3



No



Cut through the BG adhesive

- Slide your opening pick clockwise.
- Cut adhesive on the left edge where PSA is smaller, then open toward the hinge to separate the larger adhesive side.
- Use the large suction cup to hold the BG after you open the device.



Disassembly sequence

1 (insert opening pick with 2.0 mm) → 2 (2.0 mm) → 3 (2.0 mm) → 4 (5.0 mm)



Use caution

Don't fully remove the BG yet, as it's still connected by the flam board flex.

Fig 1



Fig 2



Detach the BG

- Remove **three FCAM cowling screws** with a torx plus 3IP screwdriver.
- Remove the **FCAM cowling** to reveal the **FLAM FPC B2B connector**.

Part: G250-08004-20 *3 (screws)

Part: G730-09675-00 (inner FCAM cowling)



Use caution

Don't reuse the screw.

Avoid to damage the adjacent battery, flex board, springs, and the connector underneath.



Finished! Want assembly instructions? →

Remove the BG

- Disengage **connector** and remove the **BG**.





Vibrator with cowling

The vibrator with cowling is screwed to the enclosure.



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



Required parts

Reuse indications



Reusable without
cleaning



Reusable after
cleaning



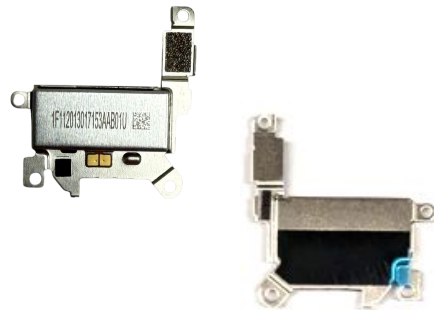
Not reusable
after disassembly

Vibrator with cowling

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

Vibrator with cowling

G949-01536-00



Screw

G250-08004-20



Graphite sheet

G864-01067-00



Sponge

G806-15352-00



Remove the graphite

- Peel the bottom of the **graphite sheet** and slowly move towards the top of the device.
- Part of the graphite sheet is lightly adhered to the copper foil on the **logic board**; peel it away slowly to avoid breaking the copper foil.

Part: G864-01067-00 (graphite sheet)



Use caution

Avoid use of sharp objects or tools to prevent damage to the **battery**.

Don't reuse the part.



Finished! Want assembly instructions? →

Remove the vibrator with cowling

Unscrew the **four vibrator cowling screws** with a torx plus 3IP screwdriver, and remove the vibrator with cowling.

Part: G250-08004-20 *4 (screws)

Part: G949-01536-00 (vibrator with cowling)



Use caution

Avoid use of sharp objects or tools to prevent damage to the **battery**.





Disassembly
instructions

mmWave module and IF FPC

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 should be removed first:

- **BG sub**



Tools

Torx plus 3IP screwdriver
Tweezers
Spudger
IPA and cloth
Dust-free cotton swabs



Required parts

Reuse indications



Reusable without
you clean



Reusable after
you clean



Not reusable
after disassembly

mmWave module and IF FPC

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

mmWave module

G345-01633-02



IF FPC

G652-10426-01



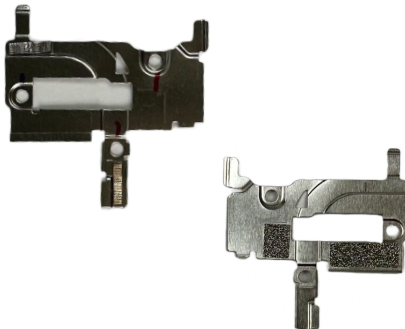
Base bridge cowling

G730-09678-00



mmWave cowling

G730-09676-00



ID cowling

G730-09680-00



Thermal pad

G864-01047-00



Screw

G250-06623-00



Screw

G250-06986-00



ID cowling PSA

G806-14384-00



Remove the screws

- Remove **six screws** with a torx plus 3IP screwdriver.
- Remove the **base bridge**, the **mmWave**, and the **ID cowlings**.

Part: G250-06986-00 *1 (screw)

Part: G250-06623-00 *5 (screws)

Part: G730-09678-00 (base bridge cowling)

Part: G730-09676-00 (mmWave cowling)

Part: G730-09680-00 (ID cowling)



Use caution

Be cautious when you use the screwdriver.
Avoid to damage the adjacent battery.

Incorrect use of the screwdriver might result in injuries to yourself or others, as well as damage to the battery or the product.



Note

Don't reuse the screws.



A: G250-06986-00

B: G250-06623-00

Disengage flexes

Disconnect the revealed **flexes** in the designated order with the **ESD spudger**.



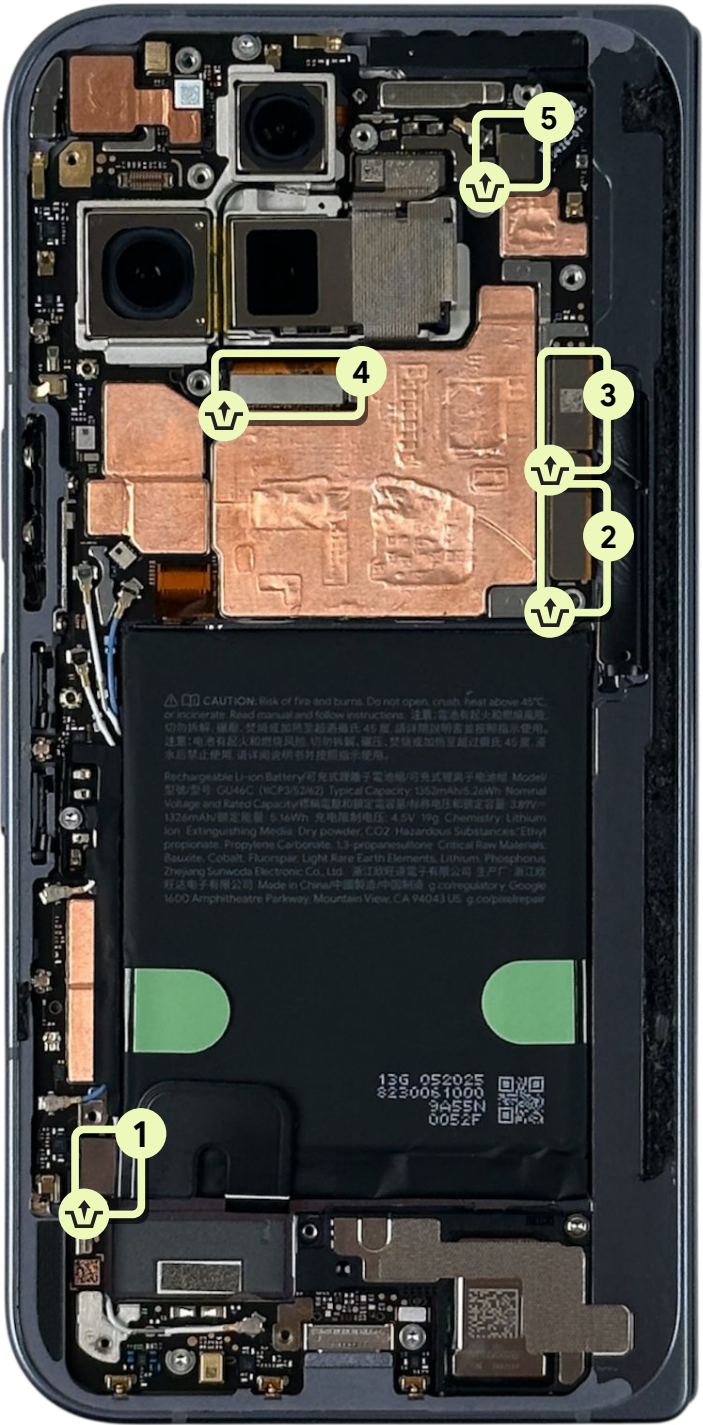
Disassembly sequence

1 (base battery) → 2 (base bridge bottom)→ 3 (base bridge top) → 4 (inner display) → 5 (IF FPC)



Note

Use a spudger to avoid damage to the components.

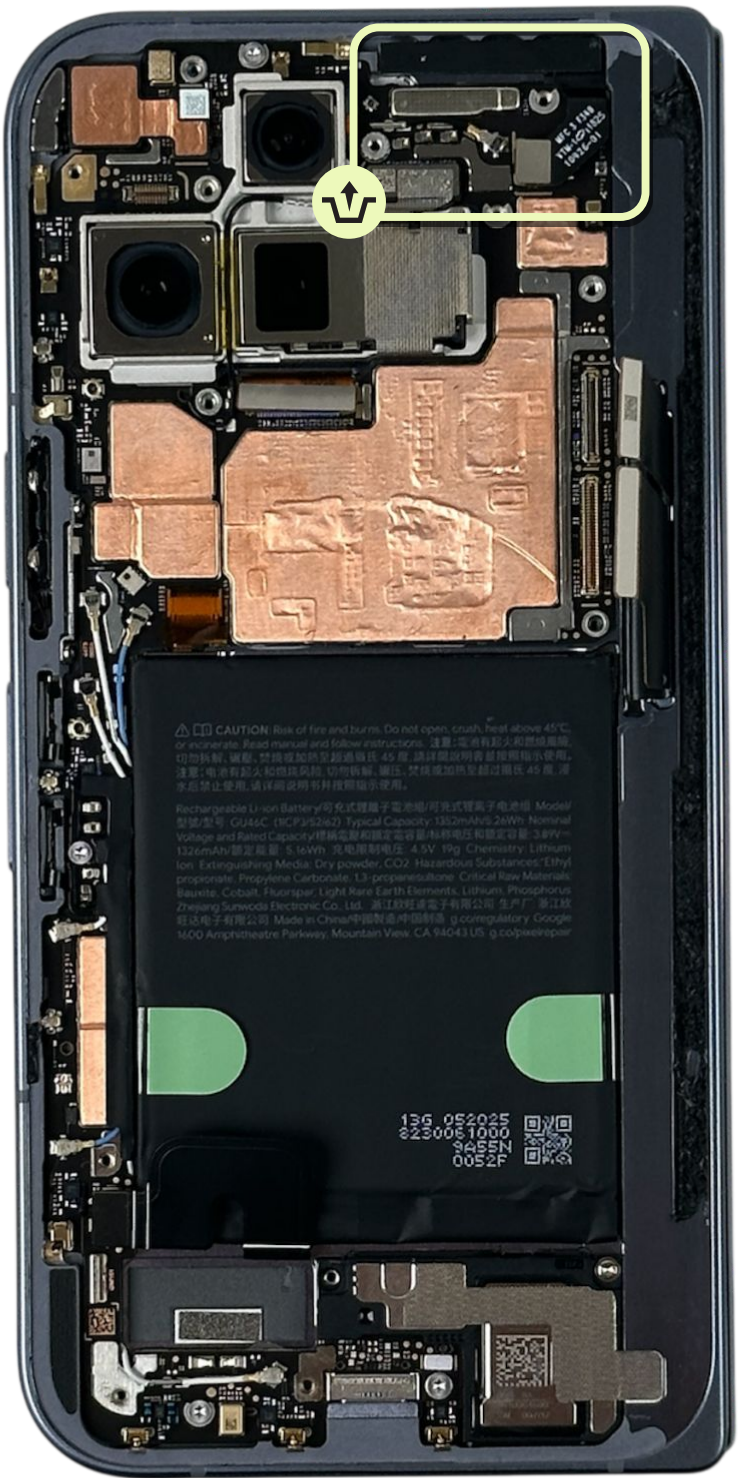


Remove the mmWave module and IF FPC

- mmWave module is lightly adhered to the enclosure. Insert a spudger to detach the **mmWave module**.

Part: G345-01633-02 (mmWave module)

Part: G652-10426-01 (IF FPC)



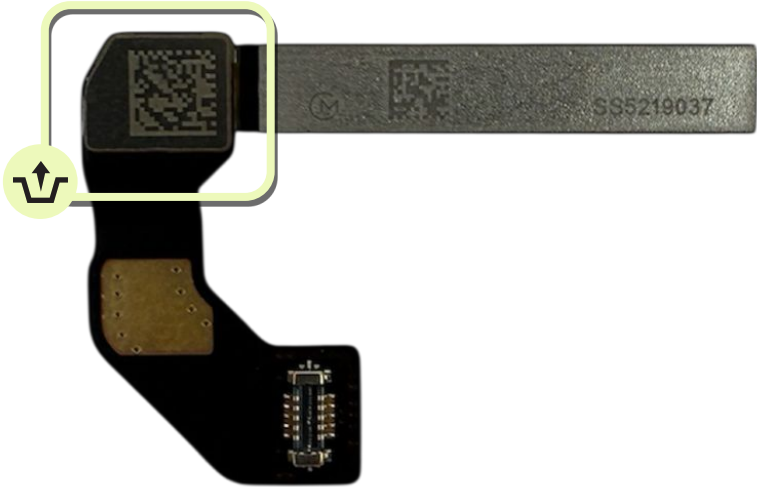
Finished! Want assembly instructions? →

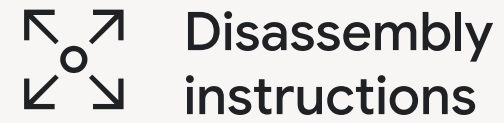
Disconnect the IF FPC

Separate the **IF FPC** from the **mmWave module**.

Part: G345-01633-02 (mmWave module)

Part: G652-10426-01 (IF FPC)





Disassembly
instructions

Inner front camera

The inner front camera is fastened to the enclosure and connected to the logic board.



Use caution

Review all safety precautions before you begin work.



Prerequisites

Here's the list of components that should be removed first:

- **BG sub**
- **Inner FCAM**



Tools

Spudger



Required parts

Reuse indications



Reusable without
you clean



Reusable after
you clean



Not reusable
after disassembly

Inner front camera

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

Inner front camera

G949-01530-00



Inner FCAM foam

G806-13943-00



Finished! Want assembly instructions? →

Remove the inner FCAM

- Disconnect the inner front camera connector with the **ESD spudger**.
- Remove the inner front camera.

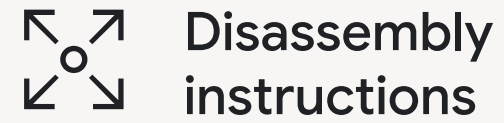
Part: G949-01530-00 (inner front camera)



Note

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





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**
- **Vibrator with cowling**



Tools

Tweezers

Spudger

Torx plus 3IP screwdriver

IPA and cloth

Dust-free cotton swabs



Required parts

Reuse indications



Reusable without
cleaning



Reusable after
cleaning



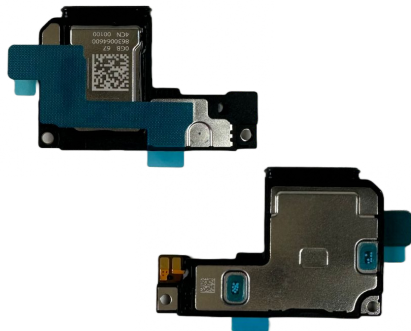
Not reusable
after disassembly

Bottom speaker

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

Bottom speaker

G863-00646-00



Screw

G250-08005-12



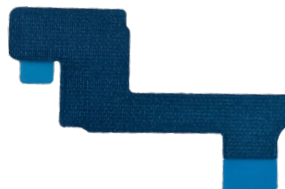
Bottom speaker CPESA

G806-13932-00



Conductive fabric

G806-14375-00



Remove the screw

- Remove the **screw** with a **torx plus 3IP screwdriver**.
- Detach the right end of the **conductive fabric** with a **spudger** or **tweezers**.

Part: G250-08005-12 (screw)

Part: G806-14375-00 (conductive fabric)



Note

Don't reuse the screw or conductive fabric.



Use caution

Avoid use of sharp objects or tools to prevent damage to the **battery**.



Finished! Want assembly instructions? →

Remove the bottom speaker

Press the screw boss area with the point of the **ESD spudger** and pry up to eject the **bottom speaker**.

Part: G863-00646-00 (bottom speaker)



Use caution

Be careful to avoid damage to the components on the **bottom speaker**.



Use caution

Avoid use of sharp objects or tools to prevent damage to the **battery**.





Disassembly instructions

Logic board

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



Use caution

Review all safety precautions before you begin work.



Prerequisites

Here's the list of components that should be removed first:

- **BG sub**
- **Vibrator with cawling**
- **mmWave module**
- **Inner front camera**
- **Bottom speaker**



Tools

Universal holder #2

Universal holder limiting block #2

Universal supporting rubber

Pixel 10 Pro Fold-thermal grease alignment fixture-1 or -2

Torx plus 3IP screwdriver

Tweezers

Spudger

Dust-free cotton swabs

IPA and cloth

 Required parts

Logic board

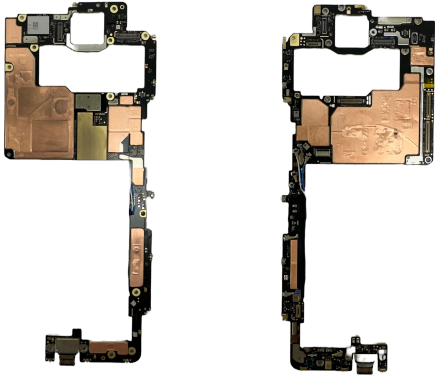
Here's the list of parts for the logic board disassembly.

Reuse indications

- Reusable without you clean
- Reusable after you clean
- Not reusable after disassembly

Logic board

Multiple part numbers



Screw*4

G250-06623-00



FPS Kapton

G806-14456-01



Thermal grease

G160-01058-00



Remove the logic board screws

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

Part: G250-06623-00 *4 (screws)



Use caution

Avoid use of sharp objects or tools to prevent damage to the **battery**.



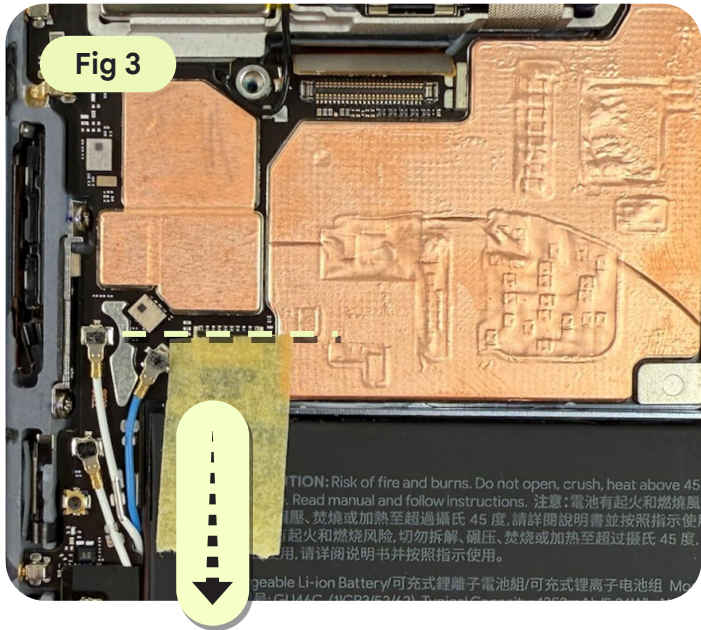
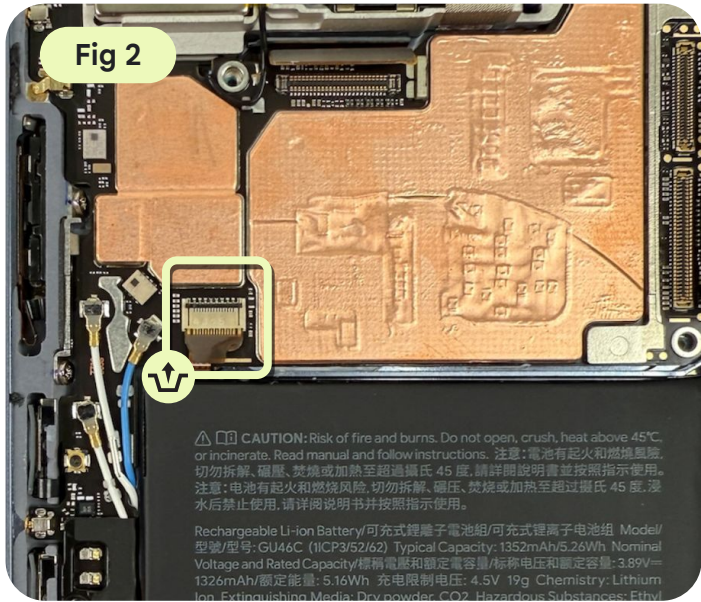
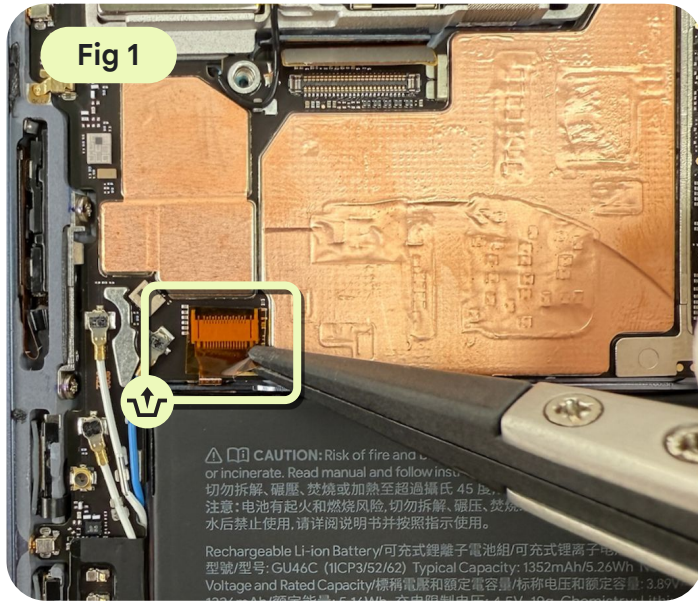
Note

Don't reuse the screws.



Disconnect the FPS flex

- Peel off the **Kapton tape** covering the **MLB ZIF connector**, as shown in **Fig 1**.
- Open the **latch** with the **ESD spudger**, as shown in **Fig 2**.
- Apply **masking tape** to the top of the ribbon cable which creates a tab for better grip, as shown in **Fig 3**.
- Pull the tape downward forcefully to extract the ribbon cable from the **ZIF connector**.



Part: G806-14456-01 (FPS Kapton)



Note

To avoid damage to the cable, make sure that the masking tape is properly aligned with the top of the cable.



Note

Don't reuse the FPS Kapton.

Use a spudger to avoid damage to the components.

[Finished! Want assembly instructions? →](#)

Remove the logic board

- Use a **spudger** to pry up the **logic board** from the mmWave recess.
- The **logic board** is embedded in the USB slot. To release it, pull it upward toward the top of the device.

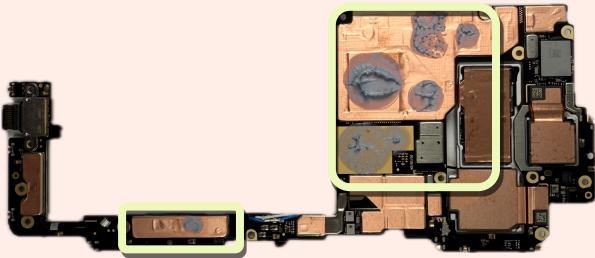
Part: multiple part numbers (logic board)



Use caution

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

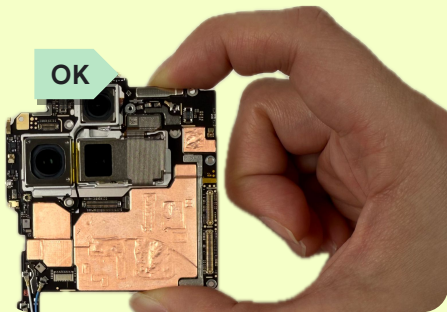
Be careful not to touch other components with the thermal grease during removal.



Note

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

Grip the logic board with your fingers.





Disassembly
instructions

Rear camera

The rear camera module carries all the rear cameras.
It's possible to replace a single camera.



Use caution

Review all safety precautions
before you begin work.



Prerequisites

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

- **BG sub**
- **Vibrator with cawling**
- **mmWave module**
- **Inner front camera**
- **Bottom speaker**
- **Logic board**



Tools

Spudger

Tweezers



Required parts

Reuse indications



Reusable without
you clean



Reusable after
you clean



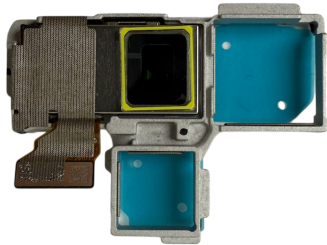
Not reusable
after disassembly

Rear camera

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

Rear camera_tele

G949-01531-00



Rear camera_UW

G949-01532-00



Rear camera_wide

G949-01533-00



Coaxial cable RCAM

G821-01179-00



Cable Kapton

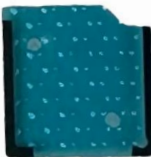
G806-13991-01



UW cam bracket

PSA

G806-13993-02



Wide cam bracket

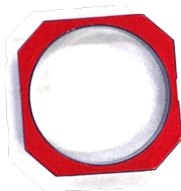
PSA

G806-13994-01



Rear camera_WIDE

G806-14592-00



Rear camera_UW

G806-14593-00



Rear camera_tele

G806-14594-00



Remove the Kapton and cable

- Detach the **Kapton tape** between the WIDE and tele cameras, and unlatch the **coaxial cable connector** with **tweezers**.

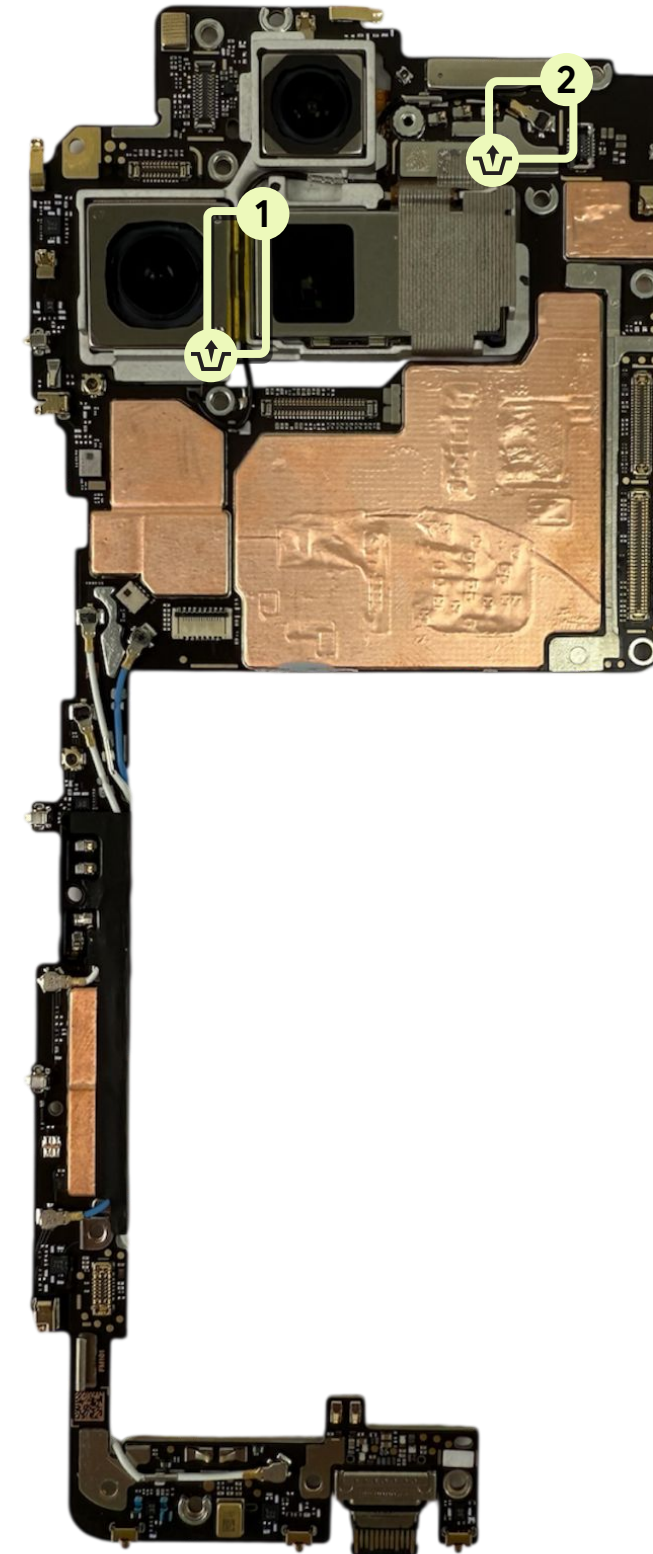
Part: G806-13991-01 (cable Kapton)

Part: G821-01179-00 (coaxial cable RCAM)



Note

Don't reuse the coaxial cable and Kapton.



Disconnect the rear cameras

- Disconnect the **three rear camera connectors** from the **logic board** with a spudger.
- Slightly rotate the entire module counterclockwise, and remove the **rear cameras** from the **logic board** manually, as shown in **Fig 3**.
- Unlatch the **coaxial cable connector** on the other side of the logic board, as shown in **Fig 4**.

⚠ Use caution

The rear camera module has cables on both sides of the logic board.

Be cautious when you remove it to avoid damaging the springs.

Fig 1

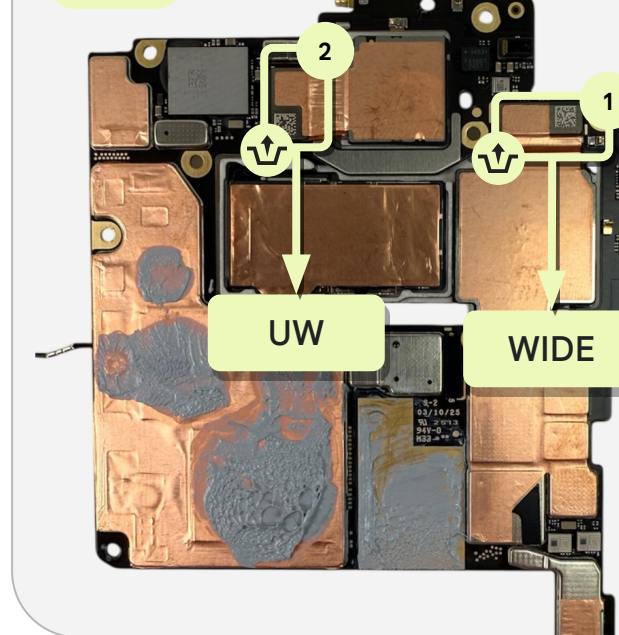


Fig 2

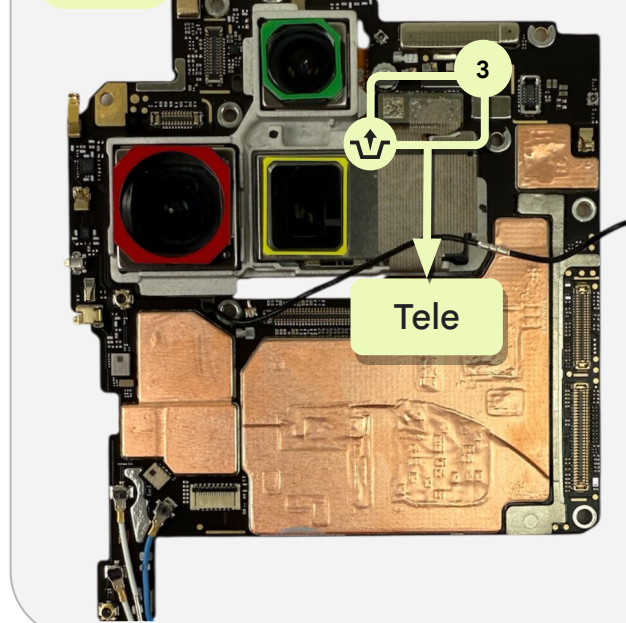


Fig 3

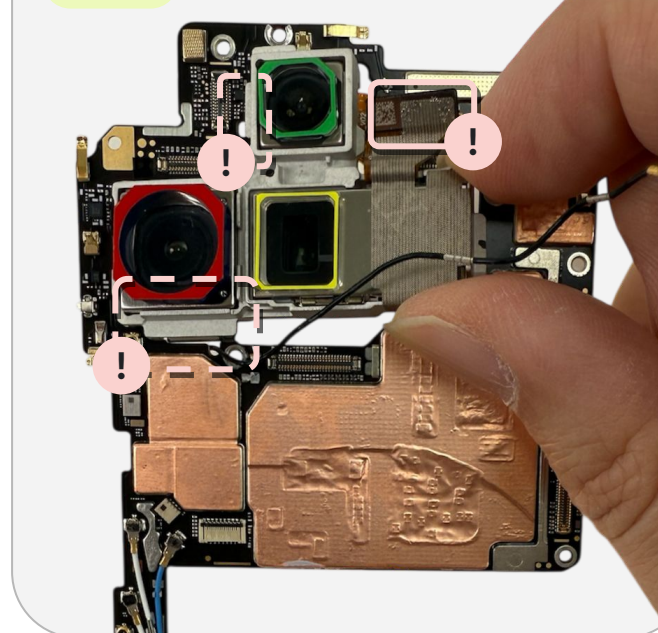
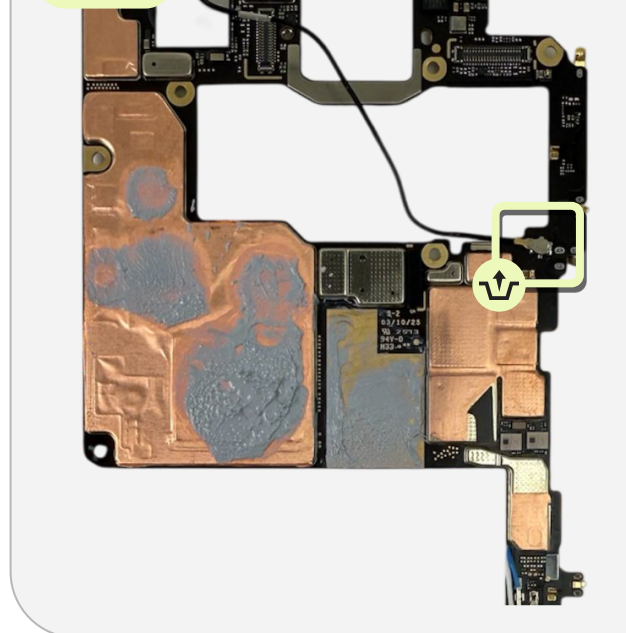


Fig 4



[Finished! Want assembly instructions? →](#)

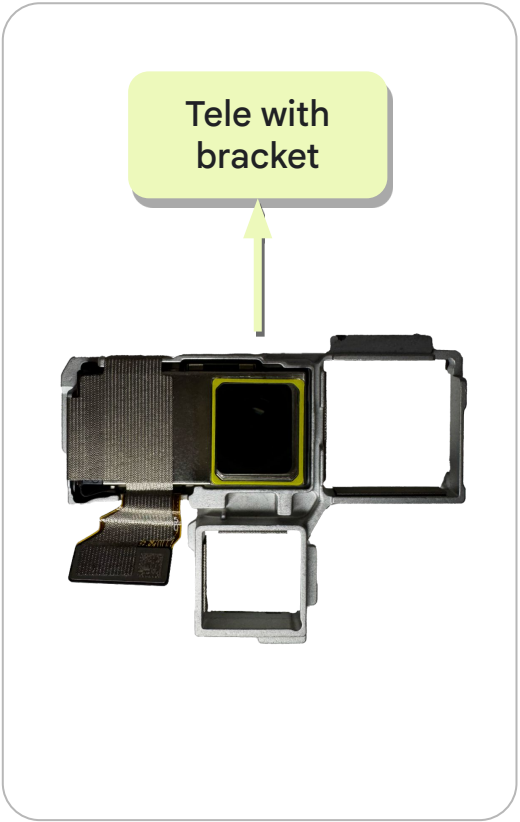
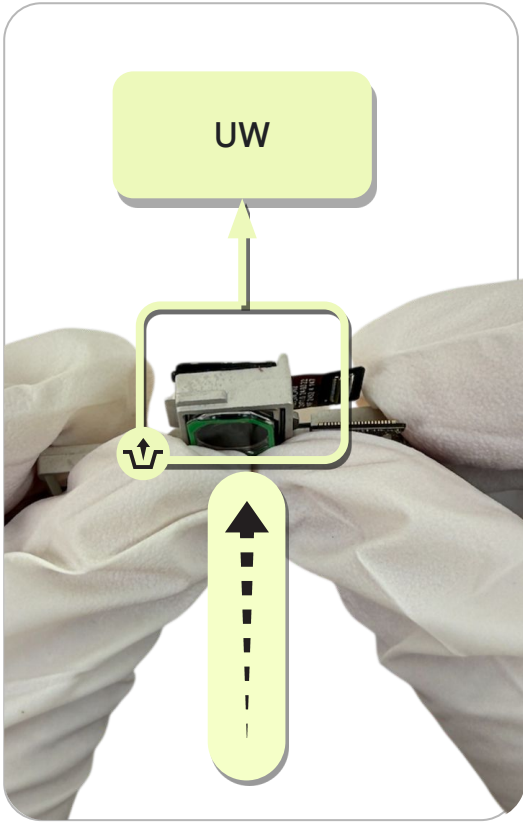
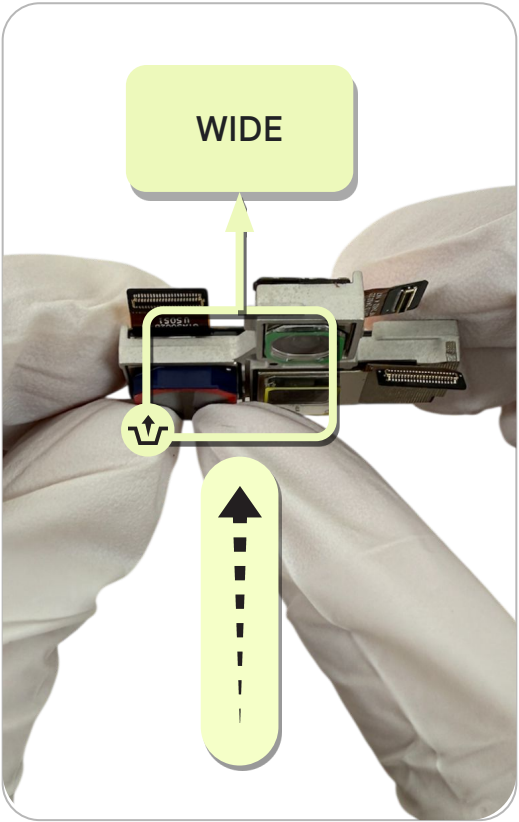
Separate the cameras

- The **rear cameras** feature a modular design. To separate the **WIDE** or **UW** cameras from the module, cover each lens with its cap and simply push from the lens side.

Part: G949-01532-00 (rear camera_UW)

Part: G949-01533-00 (rear camera_WIDE)

Part: G949-01531-00 (rear camera_tele)





Base battery



Use caution

Use caution if you engage in repair.

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

Before you service the product, read the full set of **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 keep the battery in a fire safe container as soon as possible.
- Take care to prevent shorting of battery terminals or damage the battery, as it could cause fire or overheating.
- Dispose of the battery according to the local regulations.

Confirm before you proceed

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



Base battery

We recommend that you use the universal disassembly fixture to hold the device during the battery removal process.

It's recommended to remove the battery with a pull jacket.



Use caution

Review all safety precautions before you begin work.



Prerequisites

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

- **BG sub**
- **Vibrator with cowling**



Tools

Heat plate

Universal holder #2

Universal holder Limiting Block #2

Universal supporting rubber

Universal press plate 12 mm

Battery press rubber (base side)

Universal press fixture

Pixel universal disassembly fixture V3 -base

Pixel 10 Pro Fold spare dece clip - universal dssy fixture V3

Adsorption-bulb

Tweezers

3M AP111 primer

IPA and cloth

Dust-free cotton swabs

✂ Required parts

Base battery

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

Reuse indications

- Reusable without you clean
- Reusable after you clean
- Not reusable after disassembly

Battery base

Multiple part numbers



Base battery cell difference

	Battery cell source (ATL)	Battery cell source (LWN)
Base battery GPN	G949-01539-00	G949-01540-00
Model name and part no. printing on the battery	GU46C/ 8230061000	GU46C/ 8230061100

Note

1. Always replace the base and flip batteries at the same time with the correct model name which is the same previous foldable phone projects.
2. Make sure that the new base and flip battery are from the same cell source.

Front

Back

Front

Back

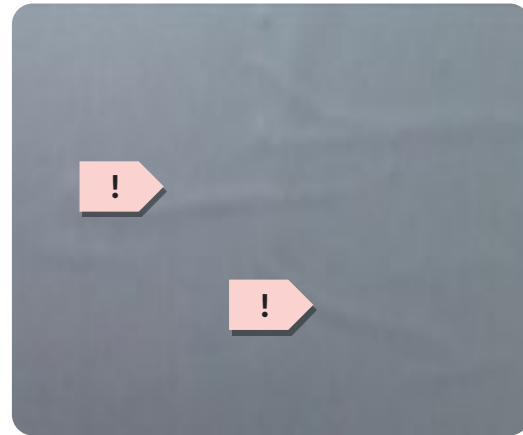
Use
caution



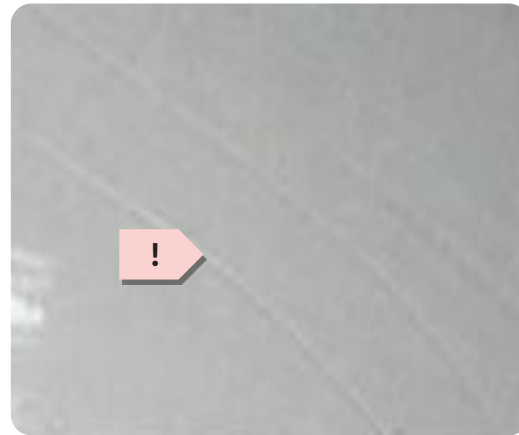
Examples of unacceptable battery conditions that aren't suitable for repair*



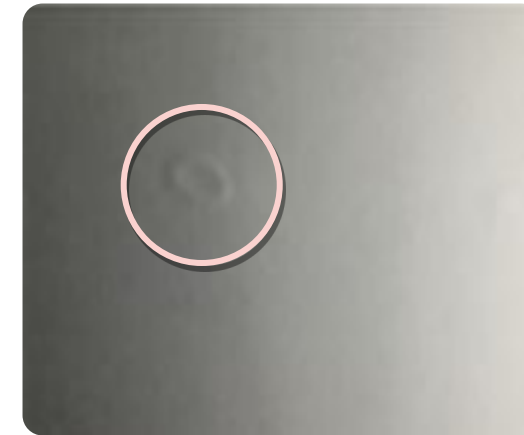
Pouch damage



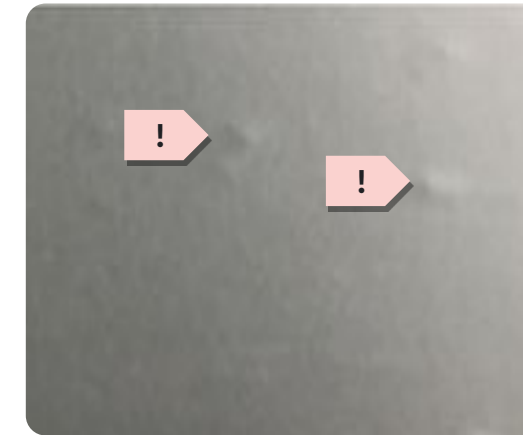
Line protrusion



Scratch



Contamination mark



Dot protrusion



Dent



Bubbling



Imprinted line



Swelling or electrolyte leakage

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

Unstick the pull jacket

- Use a pair of blunt nose tweezers or your fingers to peel the pull jacket away from the battery, as shown in **Fig 1**.
- The part of the pull jacket is folded under the green tabs. Unfold and pack them to cover partial of green tab by **masking tape (size: 10mm * 20mm)** to strengthen handling, as shown in **Fig 2** and **Fig 3**.



Use caution

Avoid use of sharp objects or tools to prevent damage to the **battery**.



Soften the glue

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



Use caution

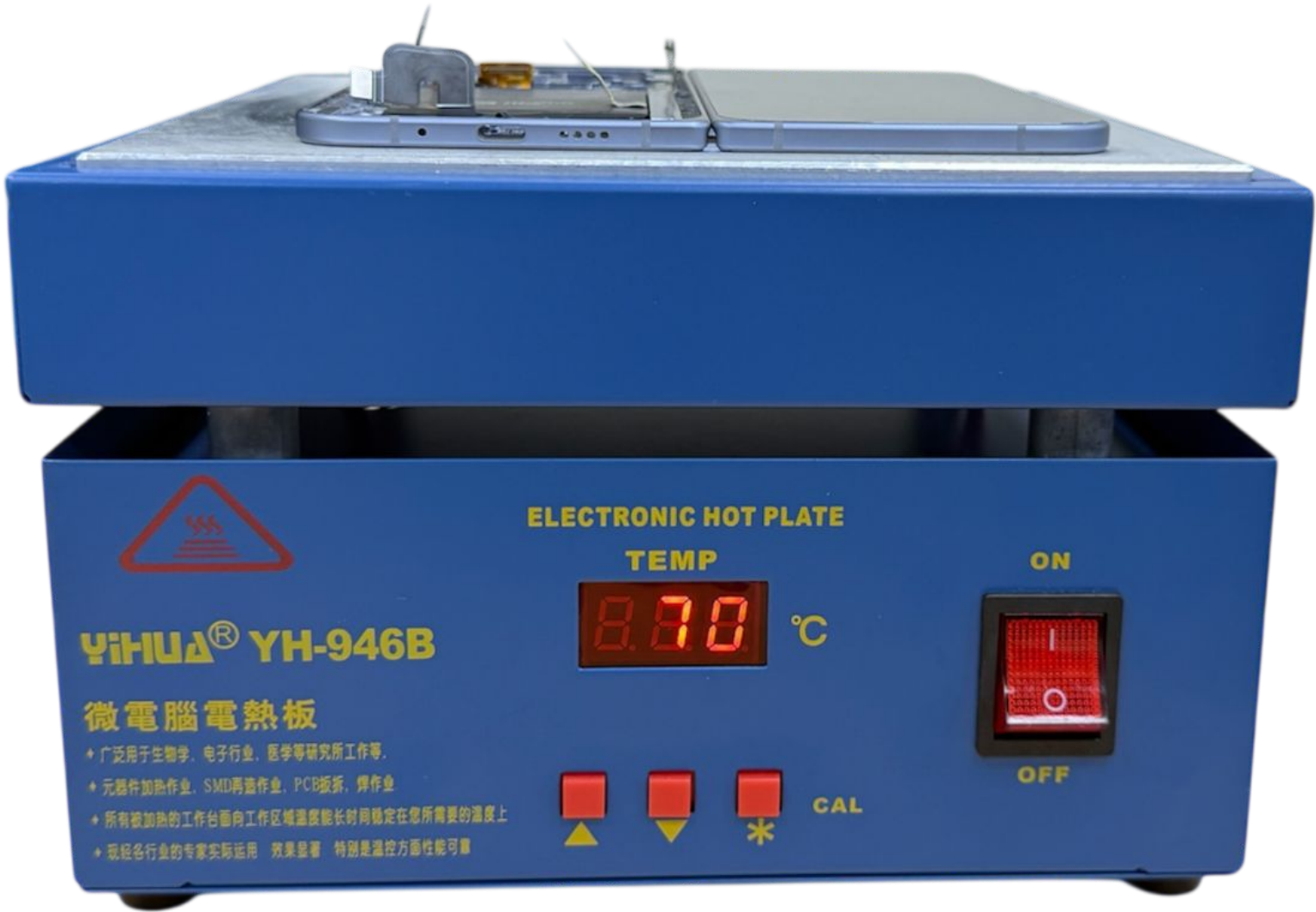
A heat plate is a hot surface.
Use caution as it could cause burns.



Use caution

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

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



Adjust the pull jacket

- Secure the fixture on the working surface.
- Fold the device, and secure it on the fixture.
- Wear ESD finger cots to increase friction to prevent slipping.
- Move the **pull jacket** back and forth to scrape the bottom PSA entirely, *don't* over the yellow dot line.



Note

If the pull jacket breaks, **insert a new flip pull jacket** (G806-14434-00) through the opening on the lower side of the base battery and reheat the device 3 minutes if it feels cooled down.

Entry point for new pull jacket

Adhesive area

Finished! Want assembly instructions? →

Remove the battery

- Grip the **pull jacket** with your fingers and pull straight up with steady force to separate the adhesive under the **base battery**.
- Gently remove the **base battery** and store it safely.

Part: multiple part numbers (base battery)



Use caution

Lift the battery as soon as the device leaves the heat plate before the adhesive cures.

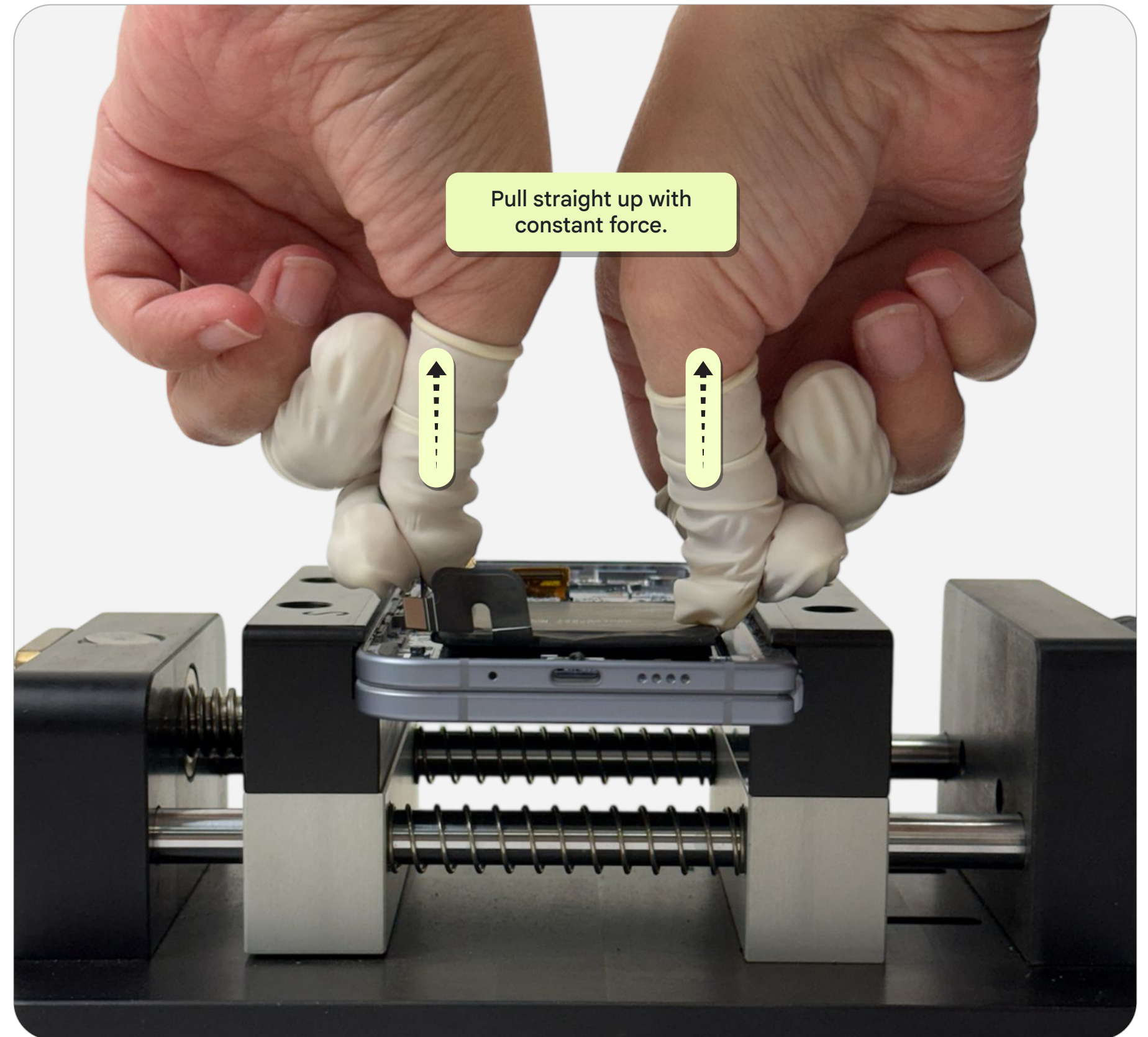
keep small screws and sharp objects away from the battery.

Don't reuse the part.



Note

Wear finger cots to increase friction.





ID (inner display) sub

Base side

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



Use caution

Review all safety precautions before you begin work.



Prerequisites

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

- **BG sub**
- **Vibrator with cawling**
- **mmWave module**
- **Inner front camera**
- **Bottom speaker**
- **Logic board**
- **Base battery**



Tools

Torx plus 3IP screwdriver
Tweezers
Spudger
Dust-free cotton swabs
IPA and cloth



Required parts

Reuse indications



Reusable without
you clean



Reusable after
you clean



Not reusable
after disassembly

Inner display sub (base side)

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

ID sub

Multiple part numbers



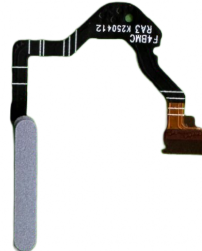
Sidekey module

G949-01541-00



Fingerprint sensor
module

Multiple part numbers



Screw*2

G250-06986-00



FPS support

G730-09651-01



FPS spacer-1

G730-09645-01



FPS spacer-2

G852-05081-01



VOL spacer*2

G852-05079-01



Mic mesh*2

G806-14011-00



VOL CPSA_top

G806-13930-00



VOL CPSA_bottom

G806-13931-00



FPS flex CPSA

G806-13929-00





Required parts

Inner display sub (base side)

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

Reuse indications



Reusable without
you clean



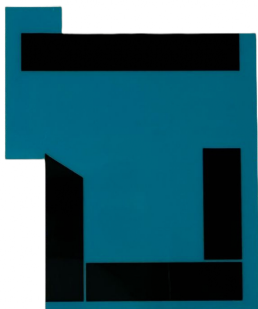
Reusable after
you clean



Not reusable
after disassembly

Base battery PSA

G806-15394-00



Remove the FPS support

- Remove the **two FPS support screws** with a torx plus 3IP screwdriver, as shown in **Fig 1**.
- Push the **FPS support** inward with the flat end of a spudger, as shown in **Fig 2**.
- Gently pry up and remove the **FPS spacer-1** and the **FPS spacer-2** with **tweezers**, as shown in **Fig 3**.

Part: G250-06986-00*2 (screw)

Part: G730-09651-01 (FPS support)

Part: G730-09645-01 (FPS spacer-1)

Part: G852-05081-01 (FPS spacer-2)



Note

Don't reuse the screw and the FPS support.

The inner display sub includes the FPS. **Only perform this and the next step if the FPS is damaged.**



Remove the FPS (power button)

- Push the FPS inward, as shown in **Fig 1** and push the FPS outward to remove the FPS module, as shown in **Fig 2**.
- Pull out the FPS module, as shown in **Fig 3** and release the FPS FPC slowly, as shown in **Fig 4**.

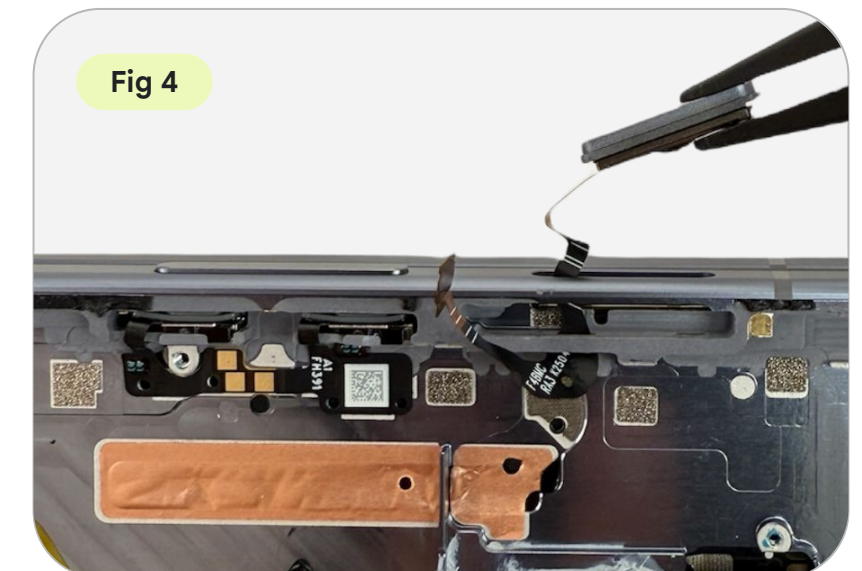
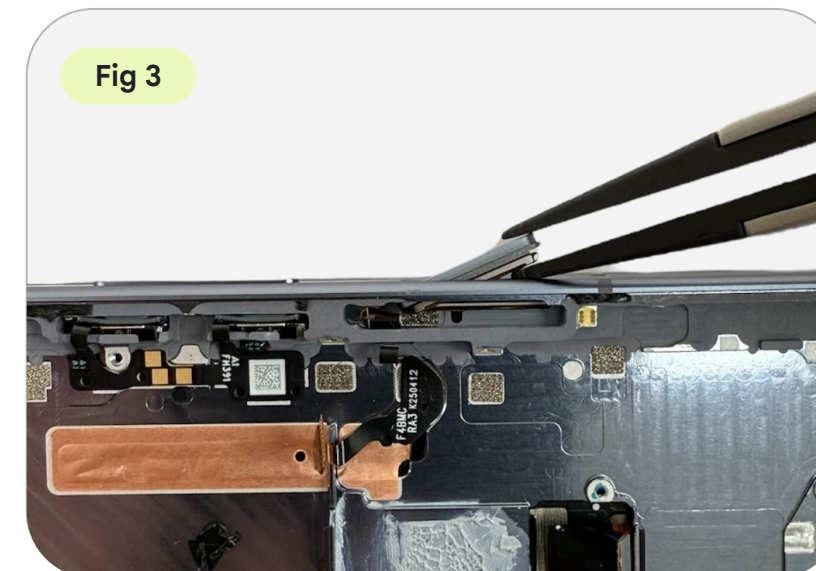
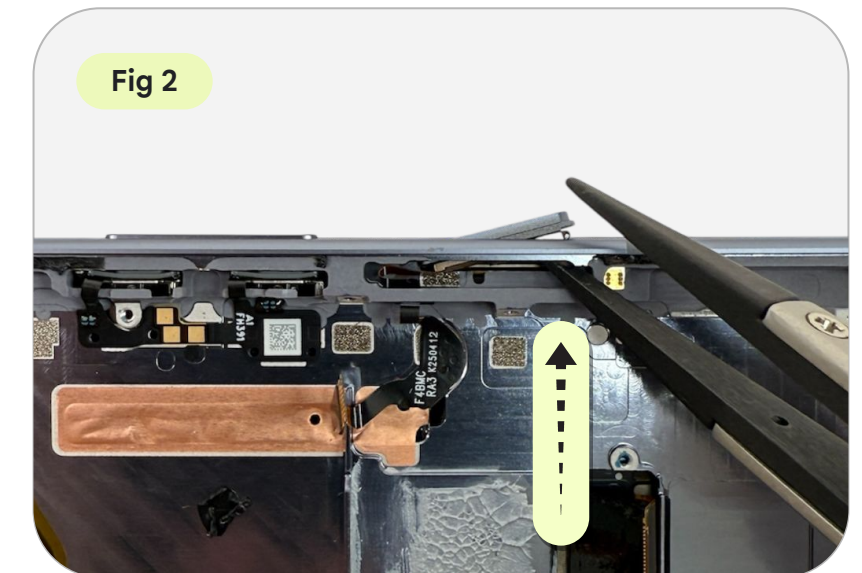
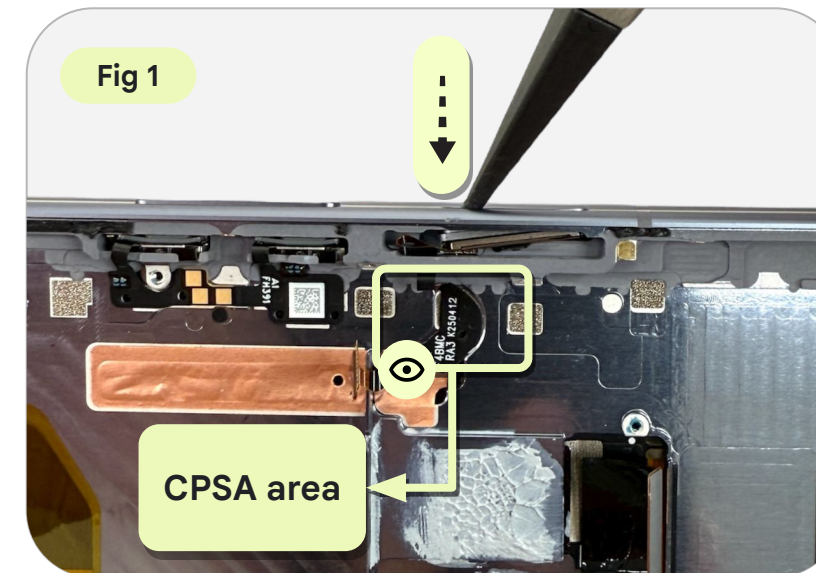
Part: multiple part numbers (FPS)



Note

Don't reuse the part.

The inner display sub includes the FPS. **Only perform this step if the FPS is damaged.**



Finished! Want assembly instructions? →

Remove the sidekey

- Release the sidekey FPC from the enclosure, as shown in **Fig 1**.
- Gently pull upward on the FPC to remove the **sidekey module**, as shown in **Fig 2**.
- Remove **two VOL spacers** from the enclosure slot, as shown in **Fig 3**.

Part: G949-01541-00 (sidekey module)

Part: G852-05079-01*2 (VOL spacer)



Note

Don't reuse the part.

The inner display sub includes the sidekey. **Only perform this step if the sidekey is damaged.**

Fig 1



Fig 2

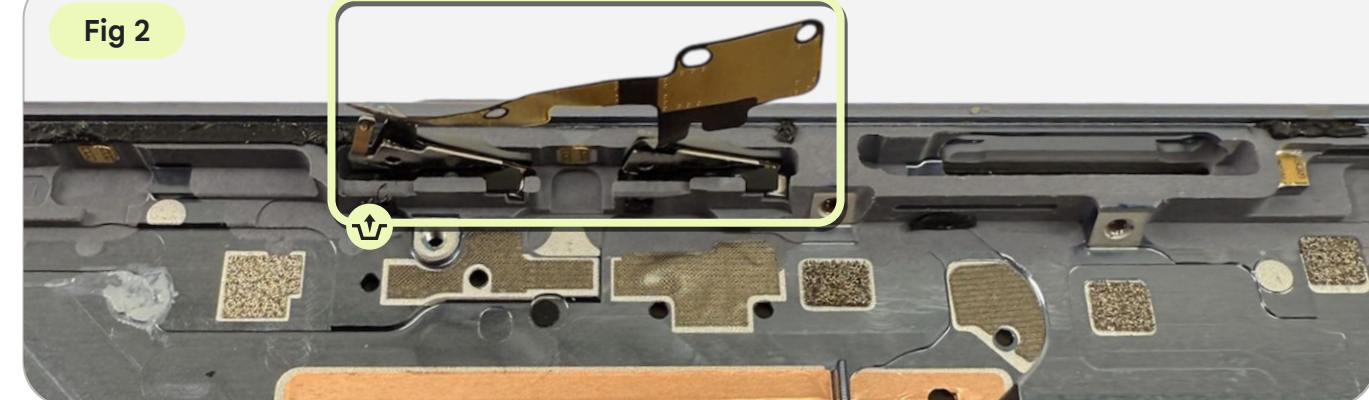


Fig 3





Pixel 10 Pro Fold repair manual

Assembly-base

Inner display sub

mmWave module and IF FPC

Vibrator with cowling

Rear camera

Bottom speaker

Inner front camera

Logic board

Base battery

BG sub



Assembly
instructions

ID (inner display) sub

Base side

Replace the VOL and FPS CPSA

- Use a **spudger** to remove remaining adhesive from the **enclosure**. Clean with a **dust-free cloth** and **IPA**, as shown in **Fig 1**.
- Apply the **FPS CPSA**, **VOL top and bottom CPSA** to the designated position, as shown in **Fig 2**.
- Use a **spudger** to firmly press over the CPSA, to ensure strong adhesion.

Part: G806-13929-00 (FPS flex CPSA)

Part: G806-13930-00 (VOL CPSA_top)

Part: G806-13931-00 (VOL CPSA_bottom)



Note

Don't remove the release liner yet.

Fig 1

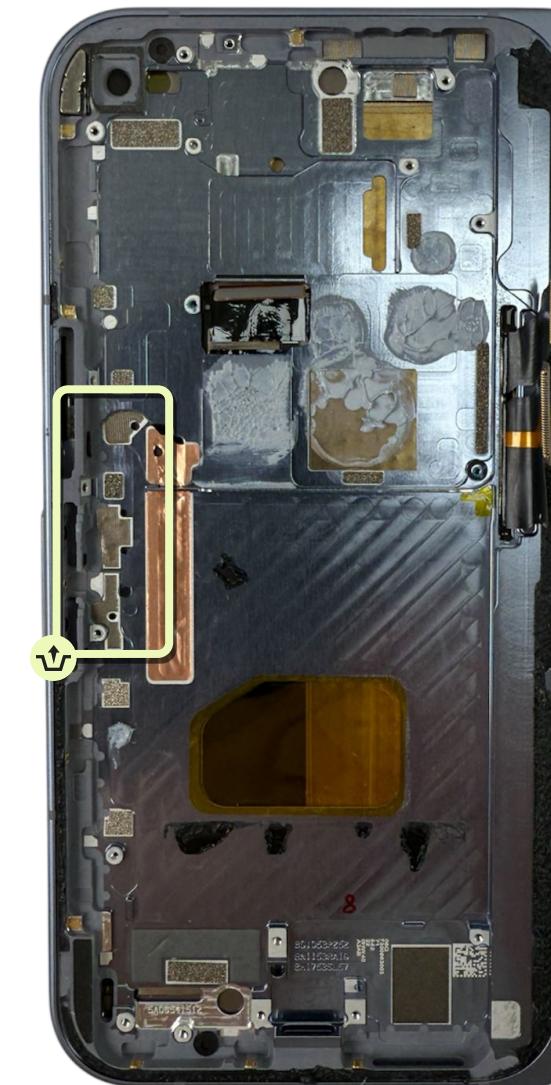


Fig 2



A: G806-13929-00

B: G806-13930-00

C: G806-13931-00

Assemble the FPS (power button)

- Fold the flex and insert the FPS flex from the slot through the middle frame, as shown in **Fig 1**.
- Push the button outward. Install the FPS spacer-1 and FPS spacer-2 into the slot of the middle frame with tweezers, as shown in **Fig 2**.

Part: multiple part numbers (FPS)

Part: G730-09645-01 (FPS spacer-1)

Part: G852-05081-01 (FPS spacer-2)



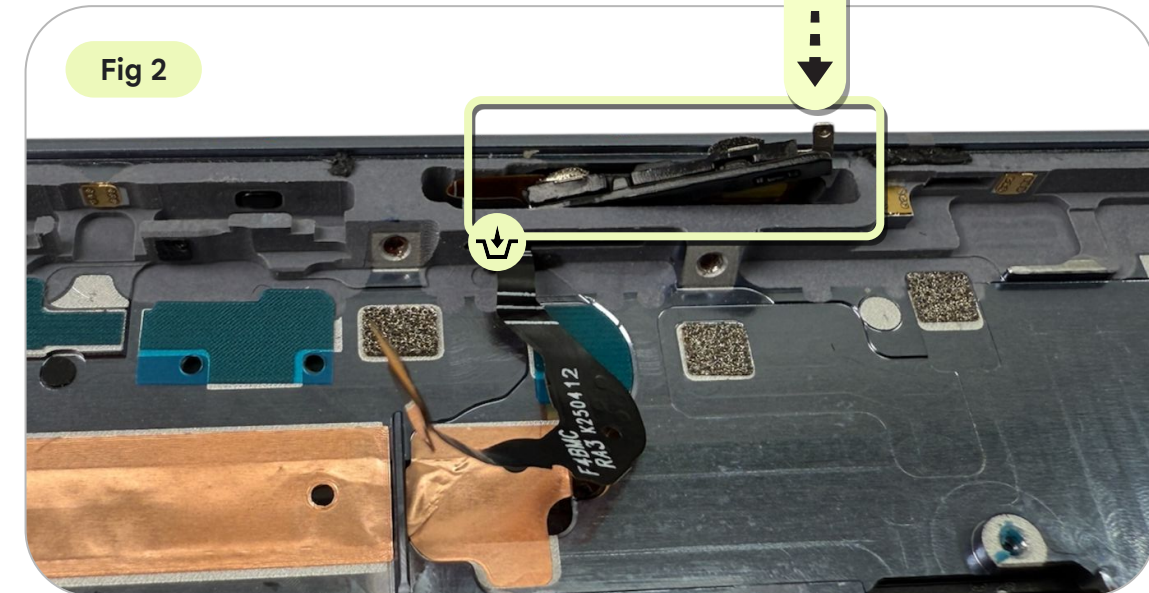
Note

The inner display sub includes the FPS and the sidekey. Only perform this and the next three steps if the FPS and the sidekey is damaged.

Fig 1



Fig 2



Assemble the FPS (power button)

- Tear off the two blue liners, as shown in **Fig 1**.
- Align the fixing hole and make sure that the white line is aligned with the shell, as shown in **Fig 2**.
- Assemble the FPS support to the designated position, as shown in **Fig 3**.
- Tighten the **screws** with the **torx plus (3IP) screwdriver** in a sequence.

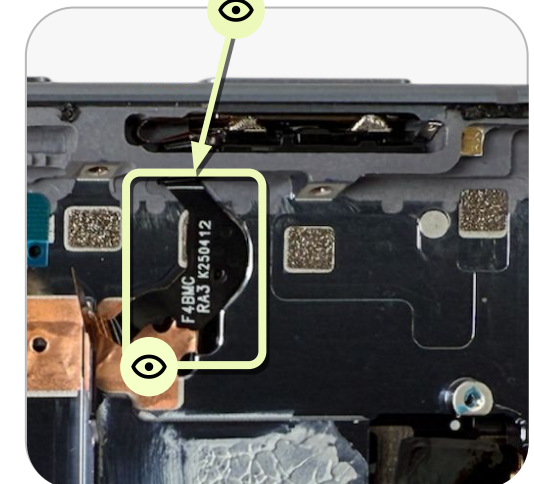
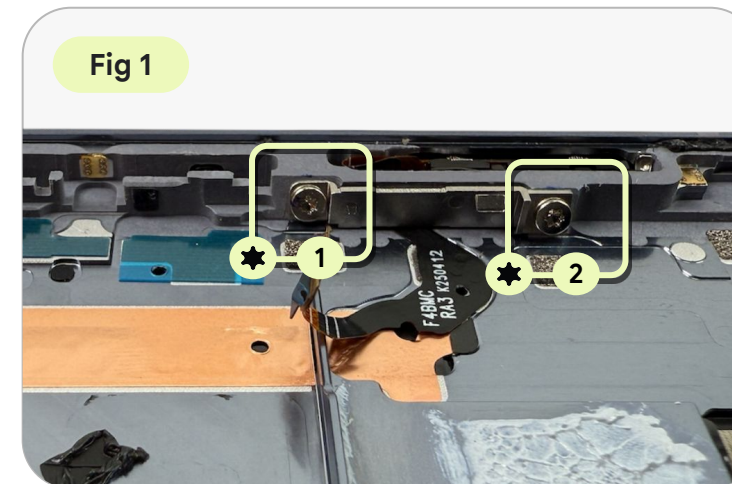
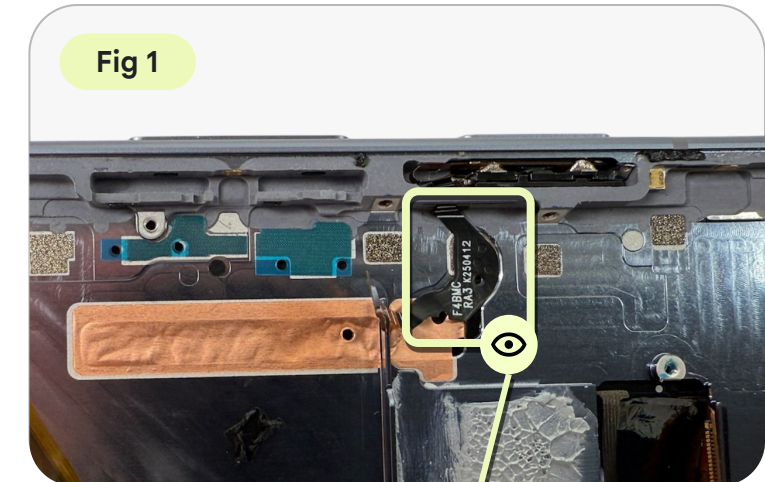
Part: G730-09651-01 (FPS support)

Part: G250-06986-00*2 (screw)



Note

The inner display sub includes the FPS and the sidekey. Only perform this and the next three steps if the FPS and the sidekey are damaged.



Assemble the sidekey

- Tear off the two blue liners, as shown in **Fig 1**.
- Install the sidekey FPC to the middle frame and align the fixing holes, as shown in **Fig 2**.
- Insert the **VOL spacer** into the gap to fix the volume button, as shown in **Fig 3**.
- Push downward to fix the **VOL spacer** to the designated position, as shown in **Fig 4**.

Part: G949-01541-00 (sidekey)

Part: G852-05079-01 *2 (VOL spacer)



Note

Clean the rubber surface with dust-free cotton swabs before installation.

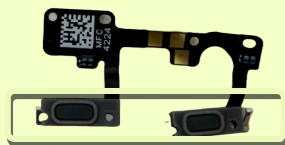


Fig 1

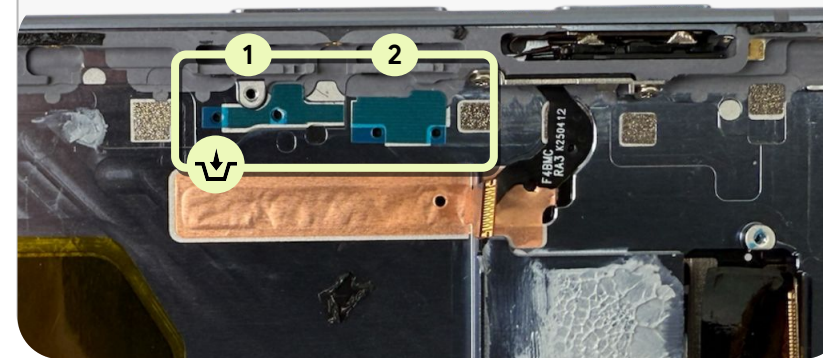


Fig 2

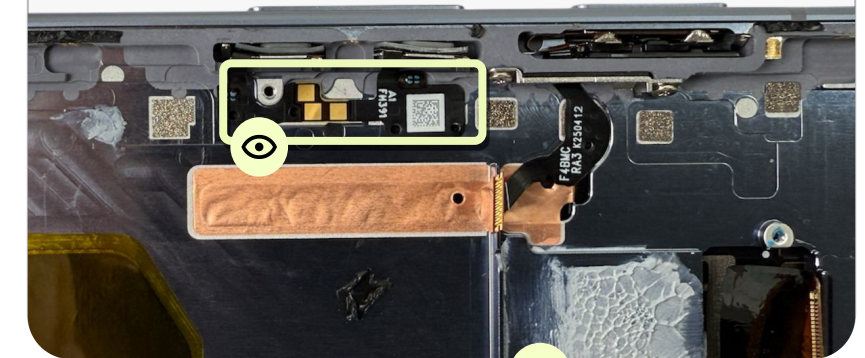


Fig 3

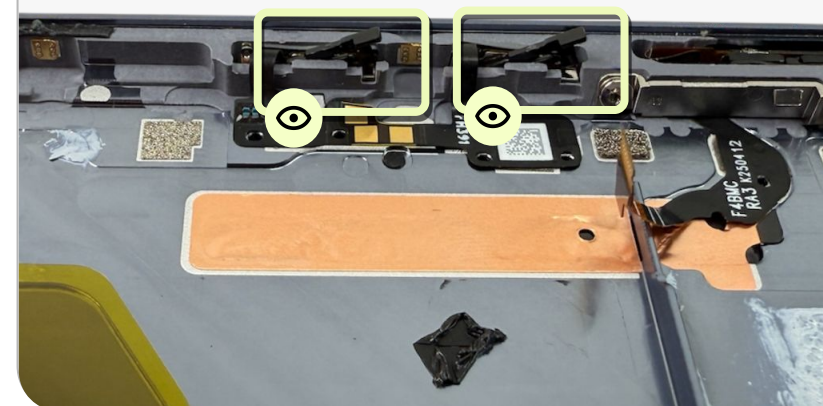
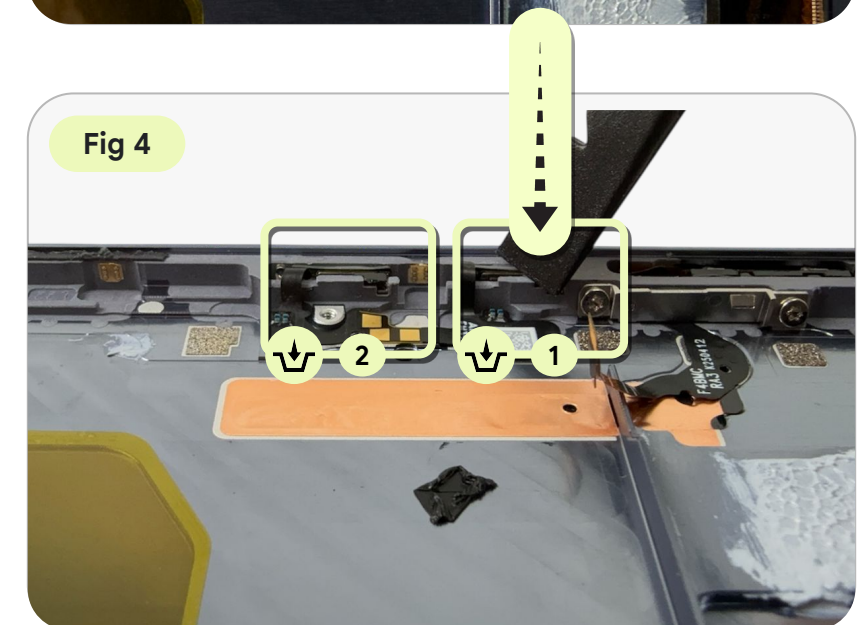


Fig 4



Reuse the ID sub or use new ID sub

- Use a **spudger** to remove remaining adhesive from the **enclosure**. Remove large chunks with fingers or **tweezers**. Clean with a **dust-free cloth** and **IPA**.
- Scrape **thermal grease** from enclosure areas with a spudger's flat end. Gently clean residue with a **cloth**.
- Remove **masking tapes** (no. 1 to 4) and the **wrap** on the **hinge** from the **base enclosure** for the new ID sub. Fold the liner of inner FCAM (no. 5) in advance to avoid interference with logic board assembling.

Part: G806-13943-00 (inner FCAM foam)



Use caution

Don't get conductive thermal grease on other components.

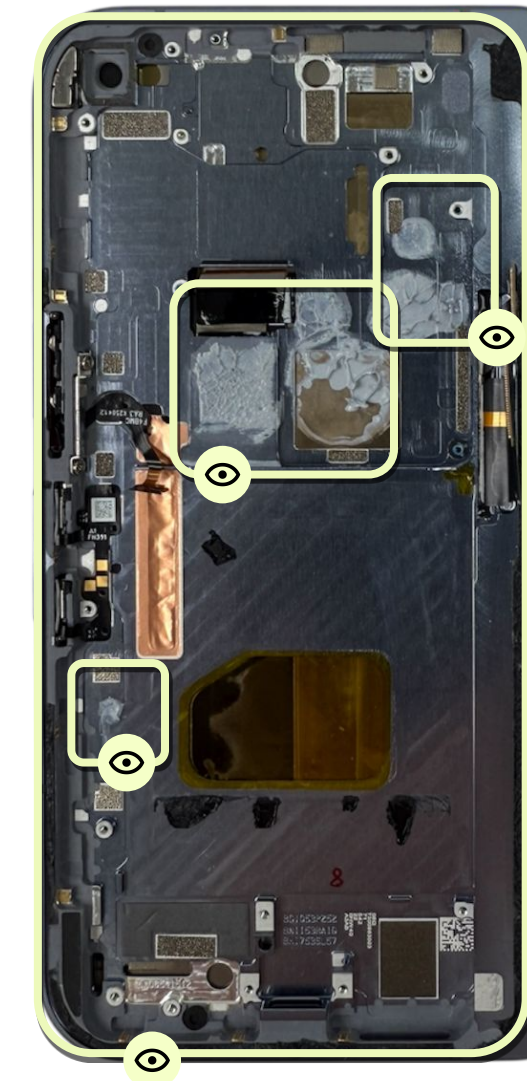
Don't use IPA to clean thermal grease.



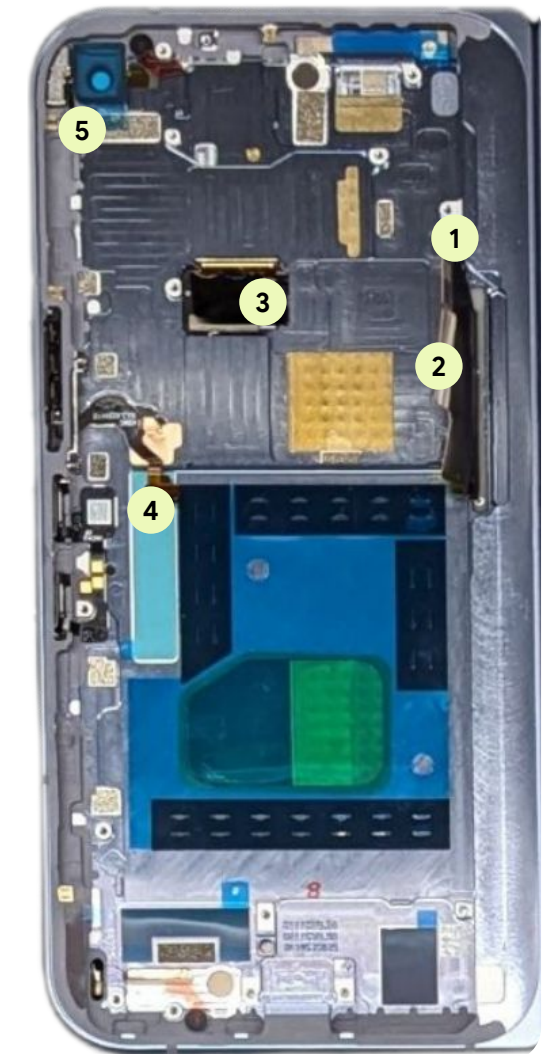
Note

If the inner FCAM PSA sponge is damaged or broken, replace it with a new one.

Paste the PSA sponge along the upper left corner as shown in figure.



Reuse ID sub



New ID sub

Clean off the thermal grease

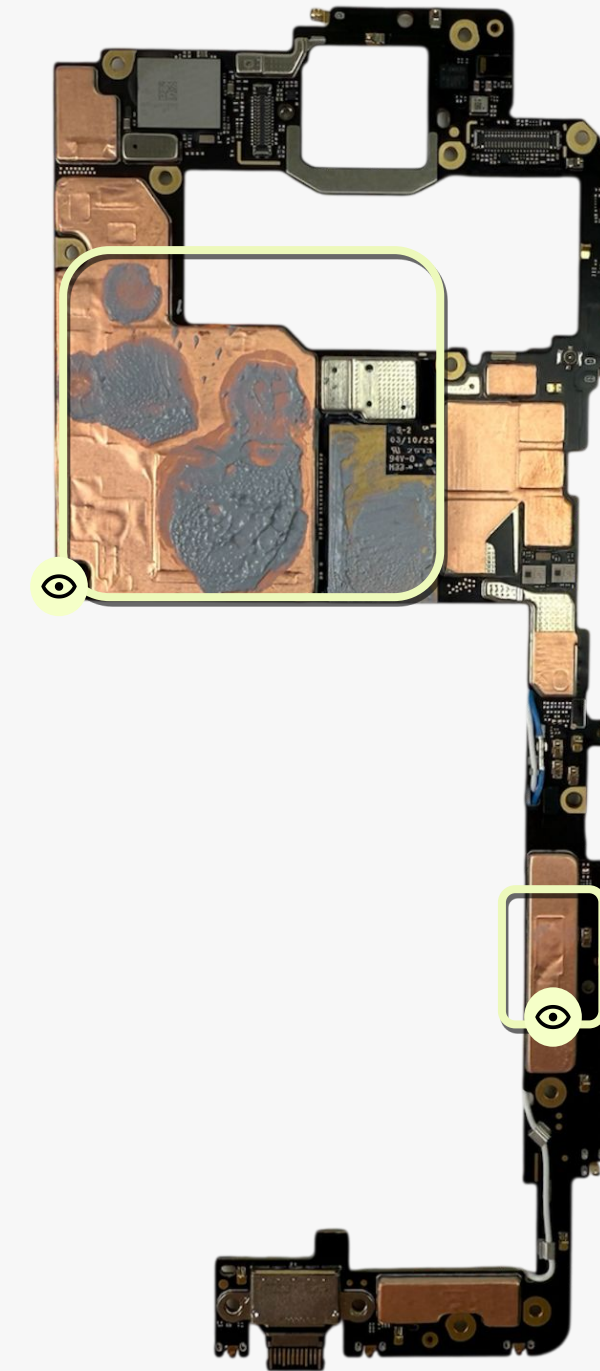
- Use the flat end of a spudger to scrape away the old thermal grease from the **logic board**.
- For any residue, gently clean the surface with a dust-free cloth.



Use caution

Don't get conductive thermal grease on other components.

***Don't* use IPA.**



Clean the base battery PSA residue

- Use a spudger's flat end to scrape up residue from the base battery area.
- Remove large adhesive chunks with your fingers or tweezers, then repeat for any remaining adhesive.
- Clean the base battery area with a dust-free cloth and IPA.



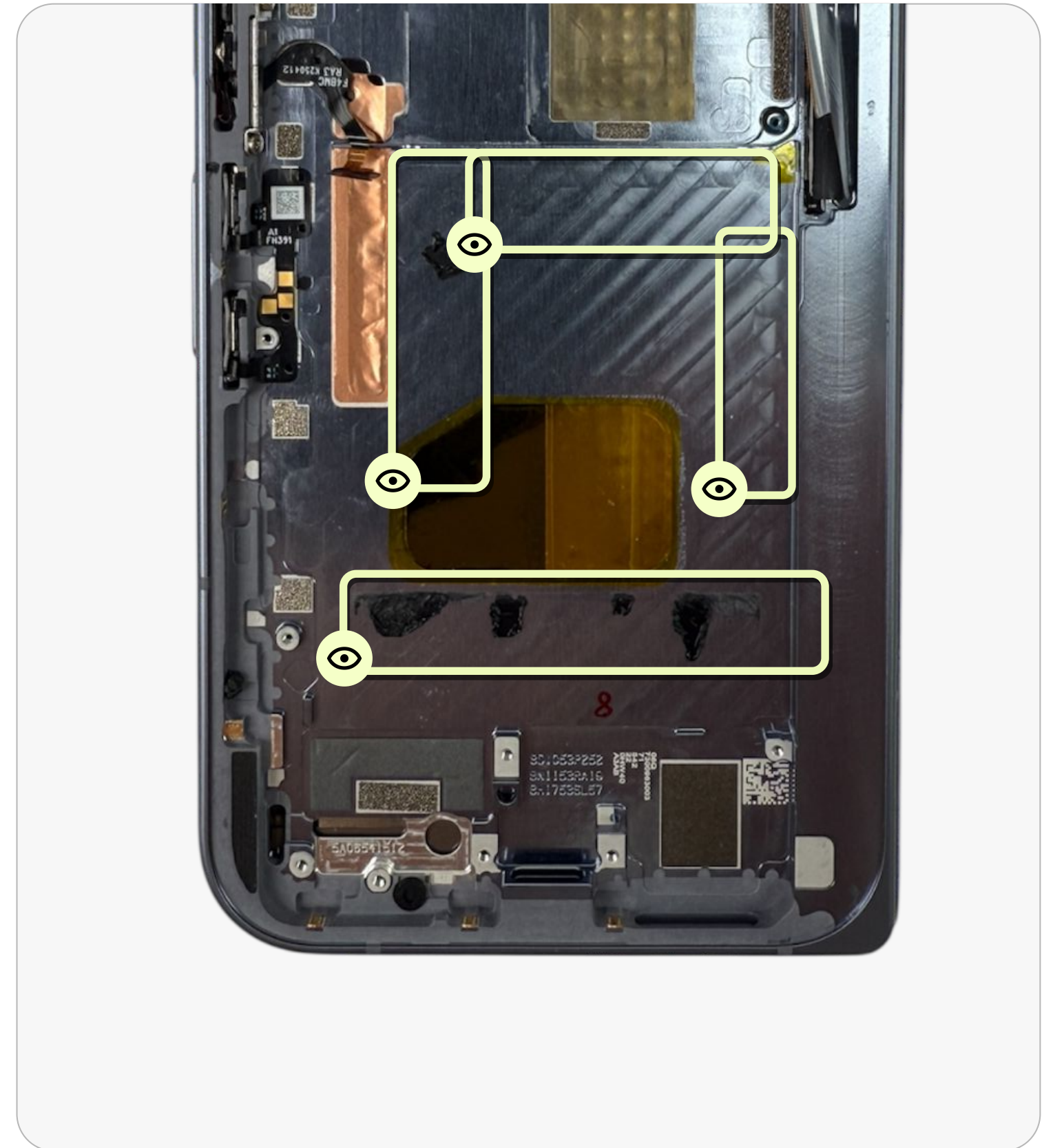
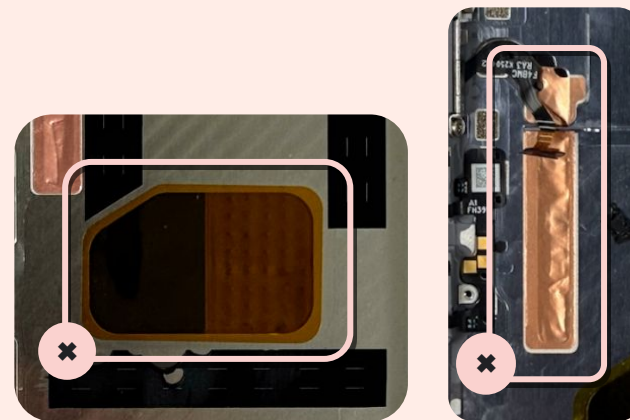
Note

The inner display subassembly includes the base battery PSA. Perform this step only when you reuse the inner display subassembly.



Use caution

Don't damage the Kapton and copper foil when you remove the residual PSAs.



Replace the base battery PSA

- Apply the **base battery PSA** to the recess in the upper right corner.
- Use a **spudger** to firmly press over the PSA, to ensure strong adhesion.

Part: G806-15394-00 (base battery PSA)



Note

Don't remove the release liner yet.



Paste the mic 1 and mic 3 meshes

- Remove damaged mic 1 and mic 3 meshes.
- Wrap a spudger with a dust-free cloth. Dip it in IPA and clean up any residue.
- Attach new meshes to the designated position.

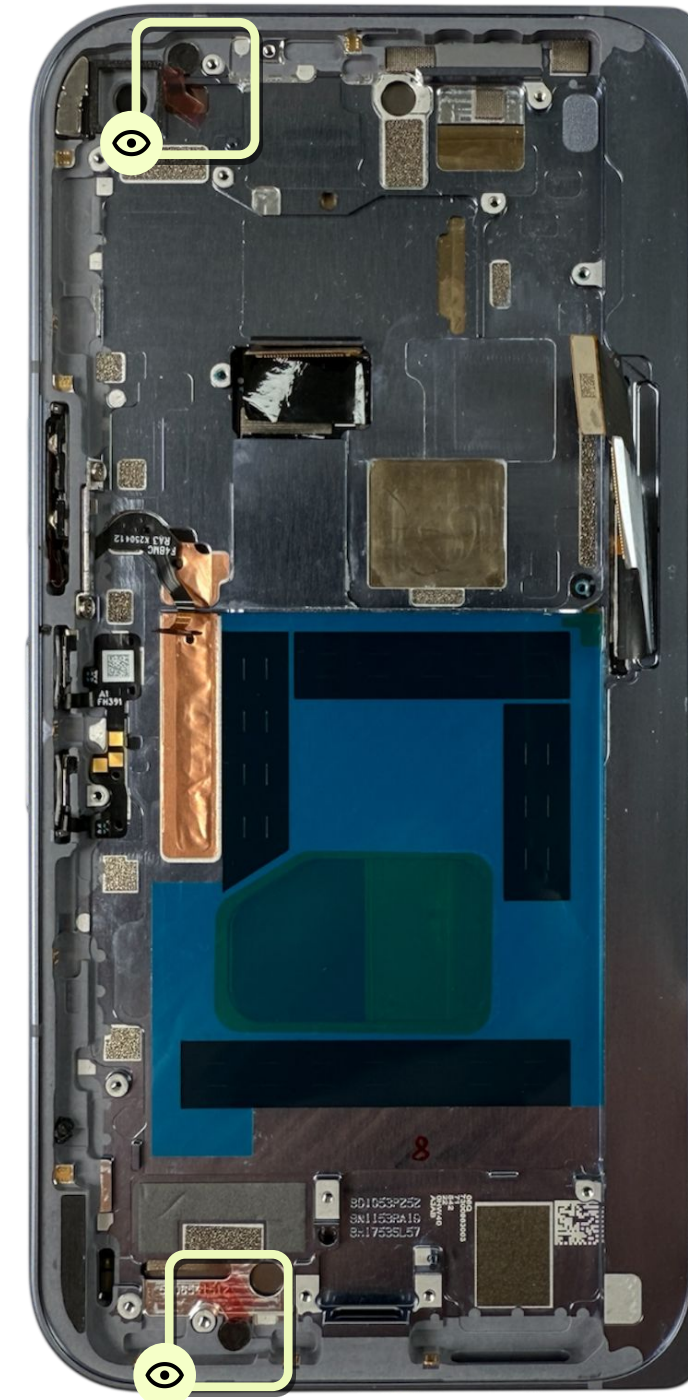
Part: G806-14011-00 *2 (mic mesh)

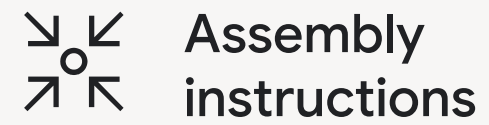


Use caution

Check the two meshes and replace them if they're damaged.

Make sure that the environment is clean for this process.





Assembly
instructions

Rear camera

Assemble the rear cameras

- The rear cameras have a modular design. When you use a new **tele camera module**, remove the 2 blue liners.

Part: G949-01531-00 (rear camera_tele)

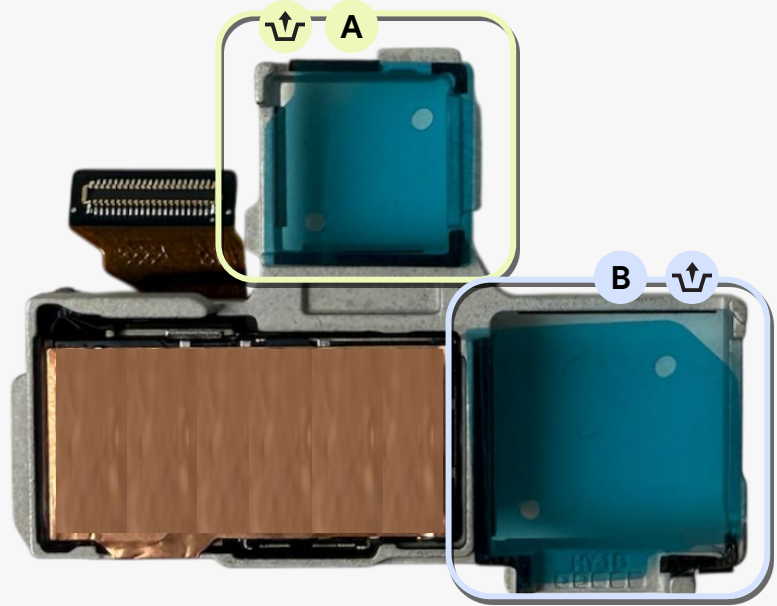
Part: G806-13993-02 (UW cam bracket PSA)

Part: G806-13994-01 (WIDE cam bracket PSA)



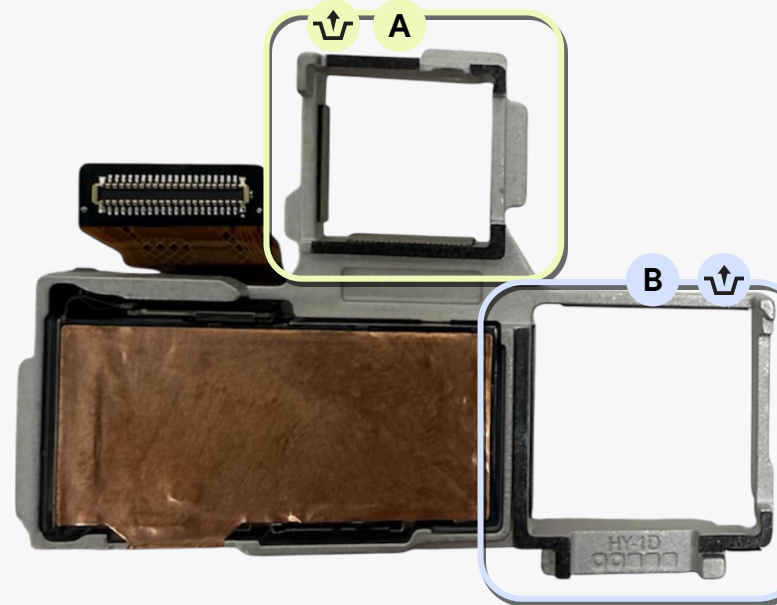
Note

Replace the PSAs on the frame if they're damaged.



A: G806-13993-02

B: G806-13994-01



Install the coaxial cable

- Turn the logic board to the back side, and latch the coaxial cable tip.
- Run the cable through the recess under the rear camera cutout and onto the front side.

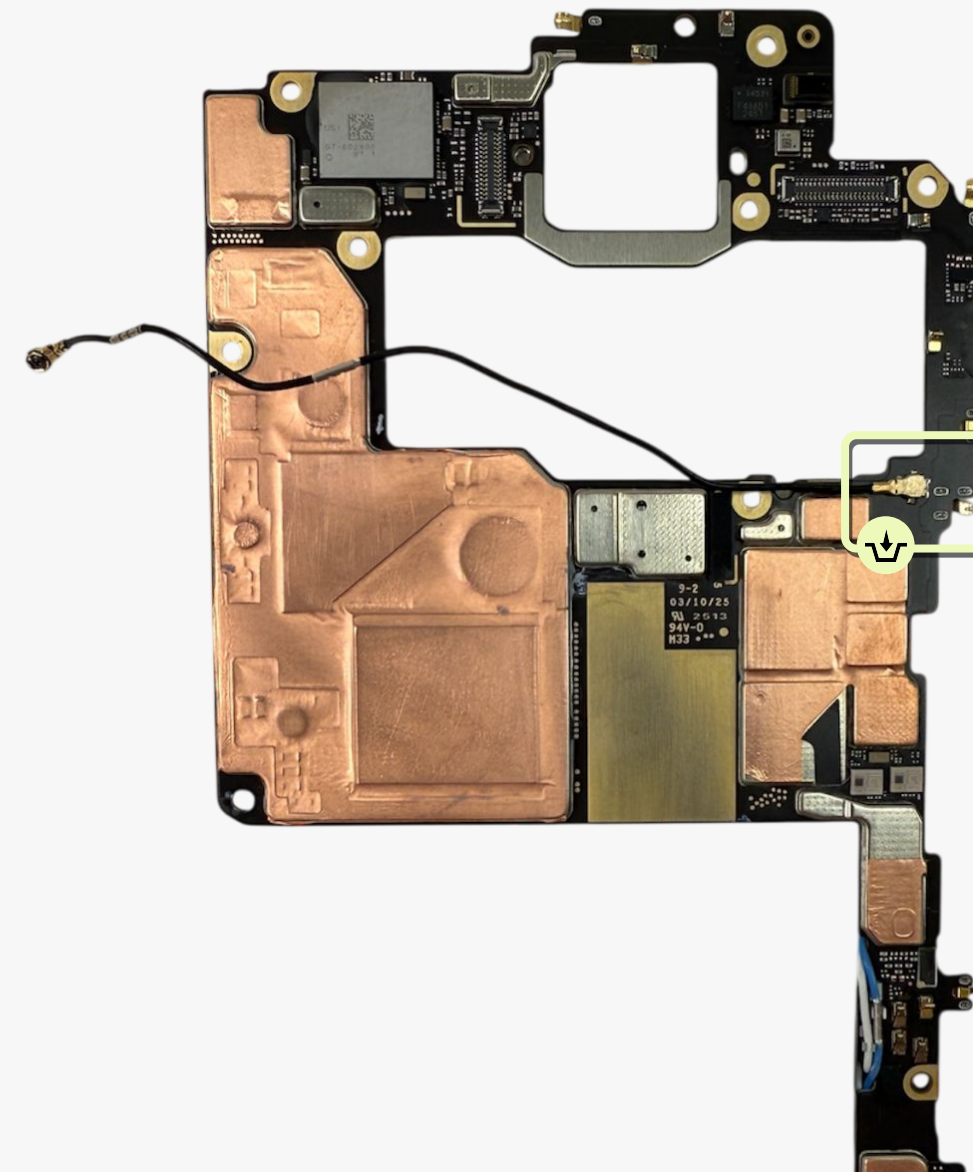
Part: G821-01179-00 (coaxial cable RCAM)



Note

The logic board includes the coaxial cable.

Perform this step only if the cable is unlatched.



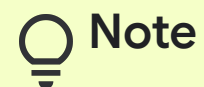
Connect the rear cameras

- Install the **rear camera_tele** to the **logic board**, as shown in **Fig 1**.
- Install the **rear camera_WIDE** and **rear camera_UW** to the **logic board** and attach the connectors, as shown in **Fig 2**.
- Attach **rear camera_tele** connector to the **logic board** in **Fig 3**.

Part: G949-01532-00 (rear camera_UW)

Part: G949-01533-00 (rear camera_WIDE)

Part: G949-01531-00 (rear camera_tele)

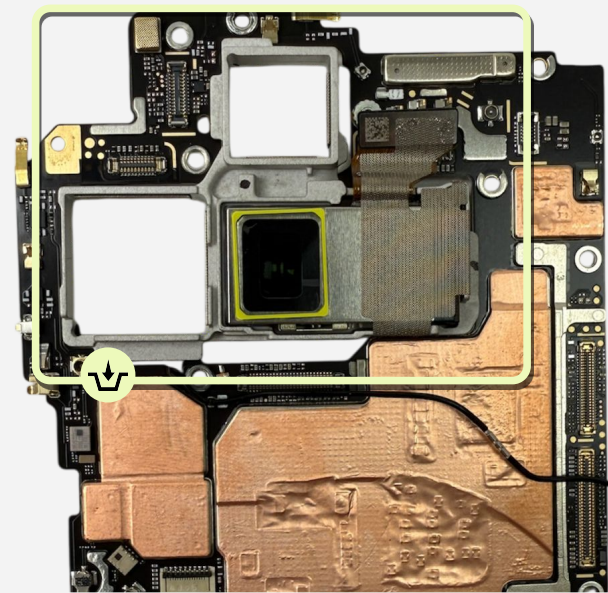


Note

Make sure that every connector is securely attached to the logic board.

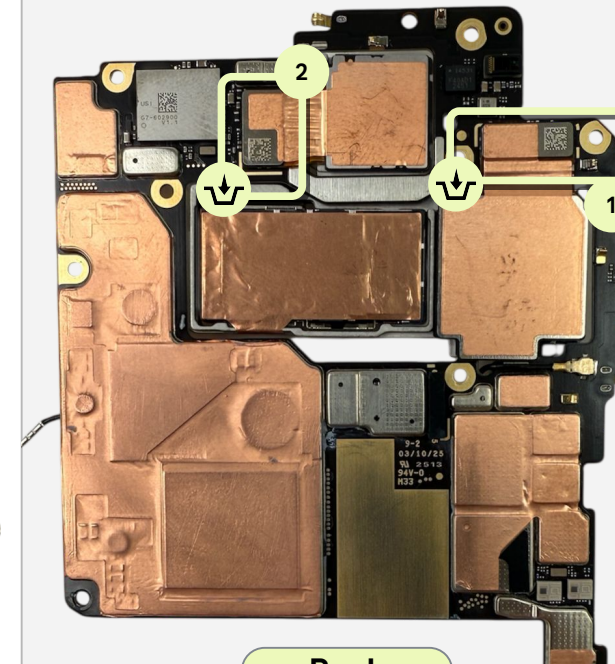
Take a close look at the connectors from different angles to help you align them properly.

Fig 1



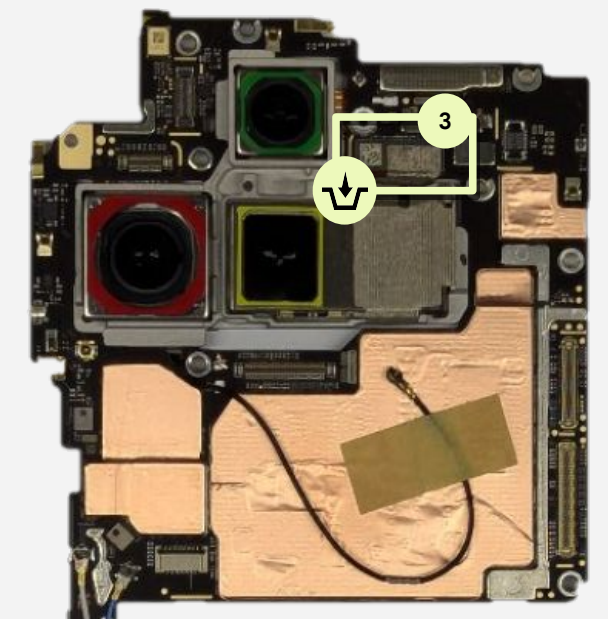
Front

Fig 2



Back

Fig 3





Assembly
instructions

Logic board

Check the logic board

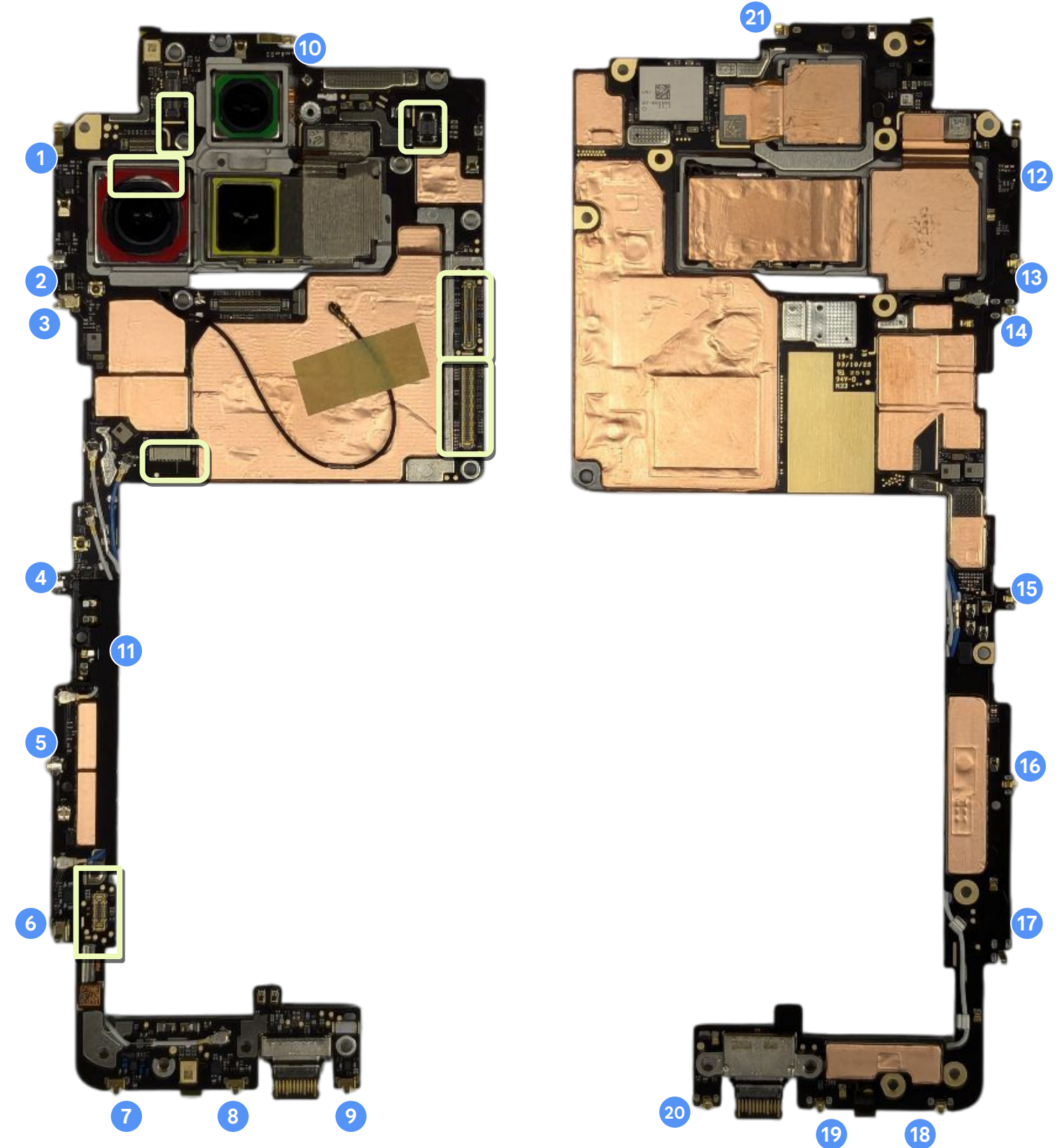
General rules



Use caution

Before you work on the logic board, check for spring deformation and damage to components near the edges.

Pay extra attention to the springs when you assemble to avoid damage to them.



Fasten the coaxial cable

- Gently press the **coaxial cable** into the channels on the logic board with **tweezers**, as shown in **Fig 1**.
- Latch the coaxial cable tip.
- Paste the Kapton between the WIDE and tele lenses, as shown in **Fig 2**.

Part: G821-01179-00 (coaxial cable RCAM)

Part: G806-13991-01 (cable Kapton)



Note

The logic board includes the coaxial cable.

Perform this step only if the cable is unlatched.

Fig 1

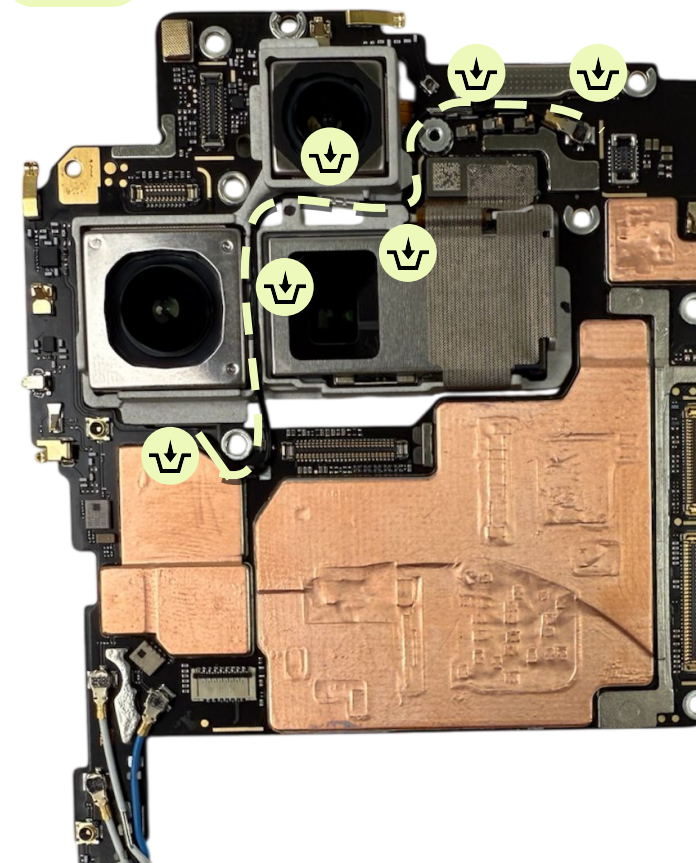
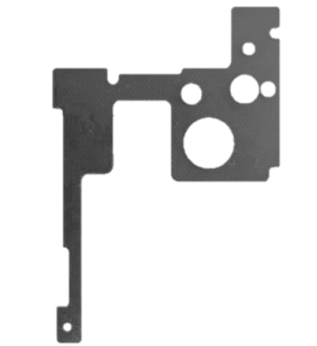
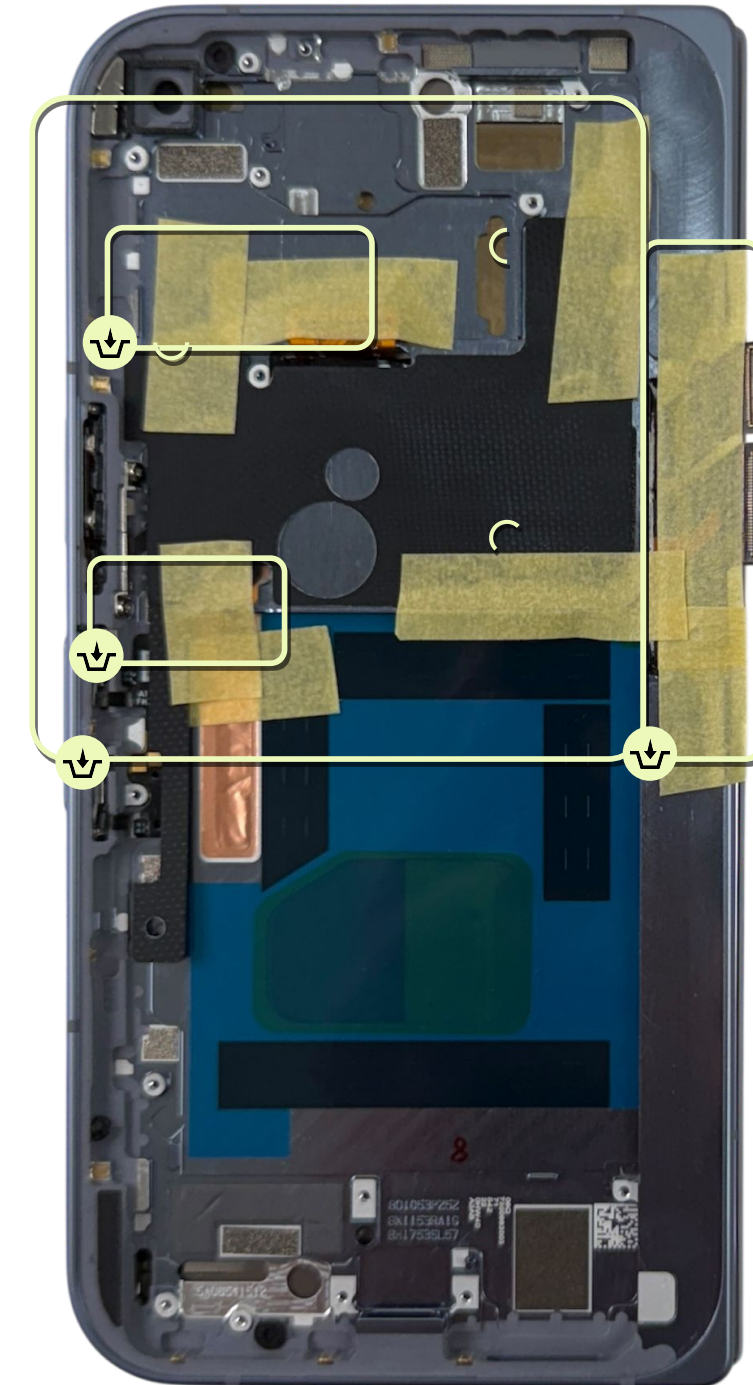


Fig 2

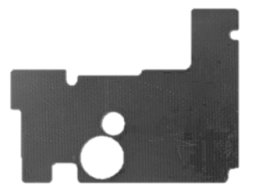


Apply the masking tapes and grease guide

- Keep the **Pixel 10 Pro Fold thermal grease alignment fixture-2** on the enclosure.
- Keep the **Pixel 10 Pro Fold thermal grease alignment fixture-1** on top of **fixture-2**, and secure it with masking tape, as shown in **Fig 1**.



Alignment fixture-2



Alignment fixture-1



Note

Use the C-shaped cutouts on the fixture for proper placement.

If any masking tape gets in the way, remove it first, keep the fixture, and then attach it back in place.

Apply the thermal grease

- Apply small beads (0.1 g $\pm$ 5%) of thermal grease into the two cutouts, holding the fixture with the other hand, as shown in **Fig 1**.
- Distribute the grease evenly with an **ESD spudger** or **EVA sponge**, moving in a single upward direction, as shown in **Fig 2**.
- Lift **fixture-1** straight up to avoid contamination, as shown in **Fig 3**.

Part: G160-01058-00 (thermal grease)



Use caution

Review all safety precautions before you begin work.

Clean the Pixel 10 Pro Fold thermal grease alignment fixture-1 and ESD spudger after each use.

Avoid applying conductive thermal grease to nearby components.

Fig 1

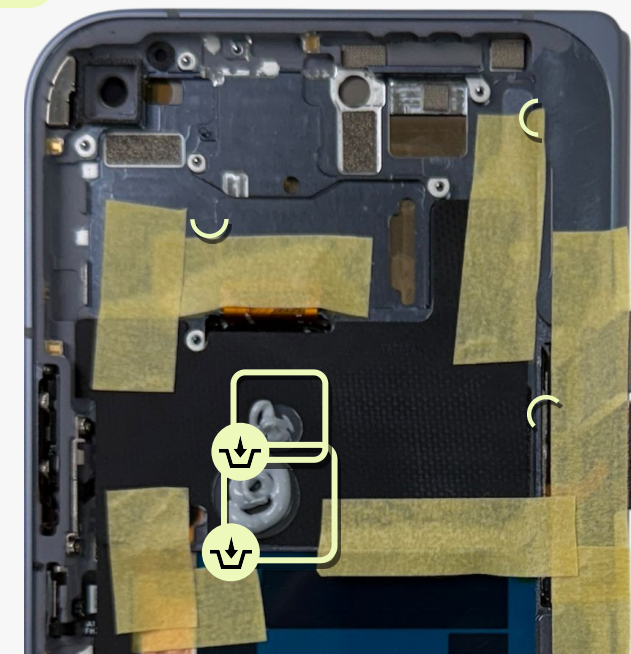


Fig 2



Fig 3



Apply the thermal grease (continued)

- Apply small beads (0.2 g $\pm$ 5%) of thermal grease into the five cutouts, holding the fixture with the other hand, as shown in **Fig 1**.
- Distribute the grease evenly with an **ESD spudger** or **EVA sponge**, moving in a single upward direction, as shown in **Fig 2**.
- Lift **fixture-2** straight up to avoid contamination, as shown in **Fig 3**.
- Remove all masking tape.

Part: G160-01058-00 (thermal grease)



Use caution

Review all safety precautions before you begin work.

Clean the Pixel 10 Pro Fold thermal grease alignment fixture-2 and ESD spudger after each use.

Avoid applying conductive thermal grease to nearby components.



Note

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

Fig 1

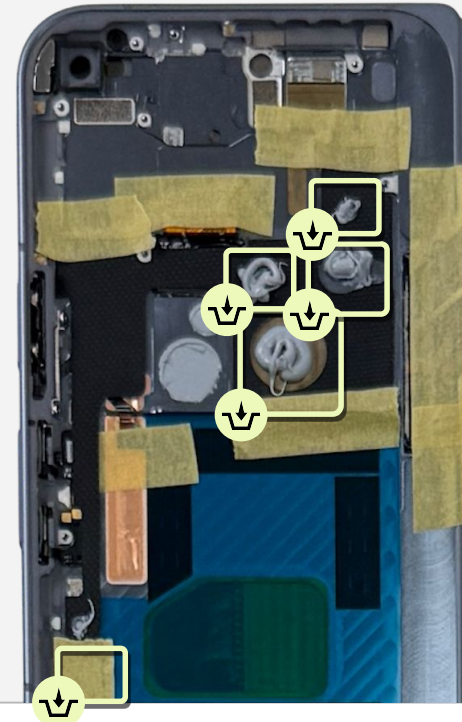


Fig 2

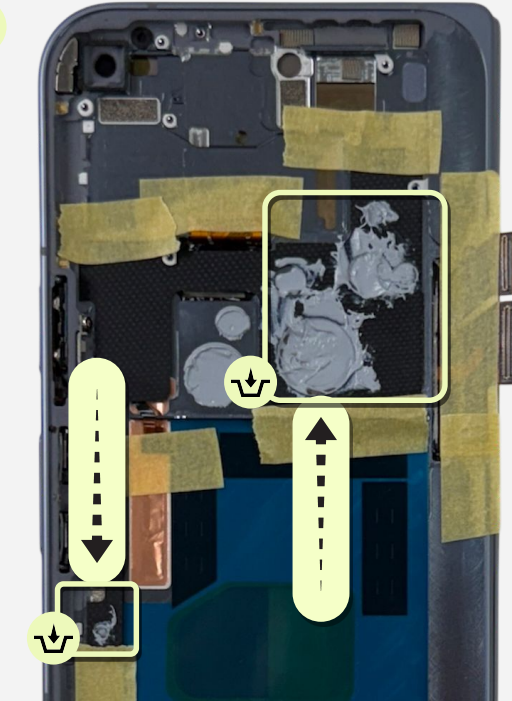
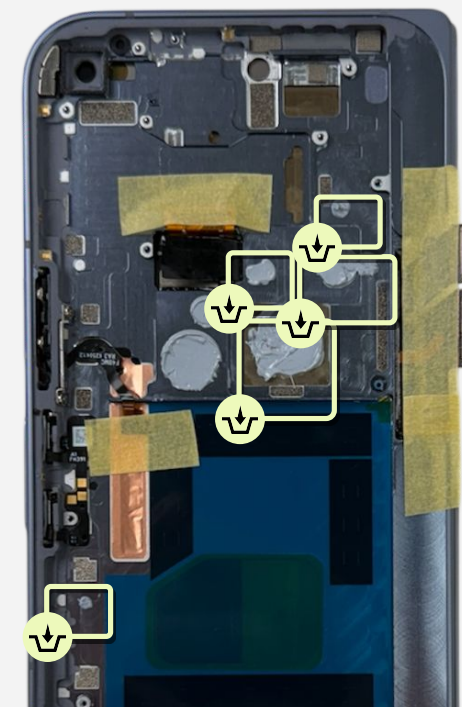


Fig 3



Prepare for the assembly

- If you use a new ID sub, remove the **mic 3**, **copper foil**, **vibrator**, **mic 1**, and **left bottom liners**. Lift the **inner FCAM liner**.
- Lift the **base top** or **bottom bridge FPC**, **inner display FPC**, and fold the **FPS FPC** downward to prevent them from being trapped under the **logic board**.



Note

Remove masking tape from the inner display, base top bridge, base bottom bridge, and FPS connectors.

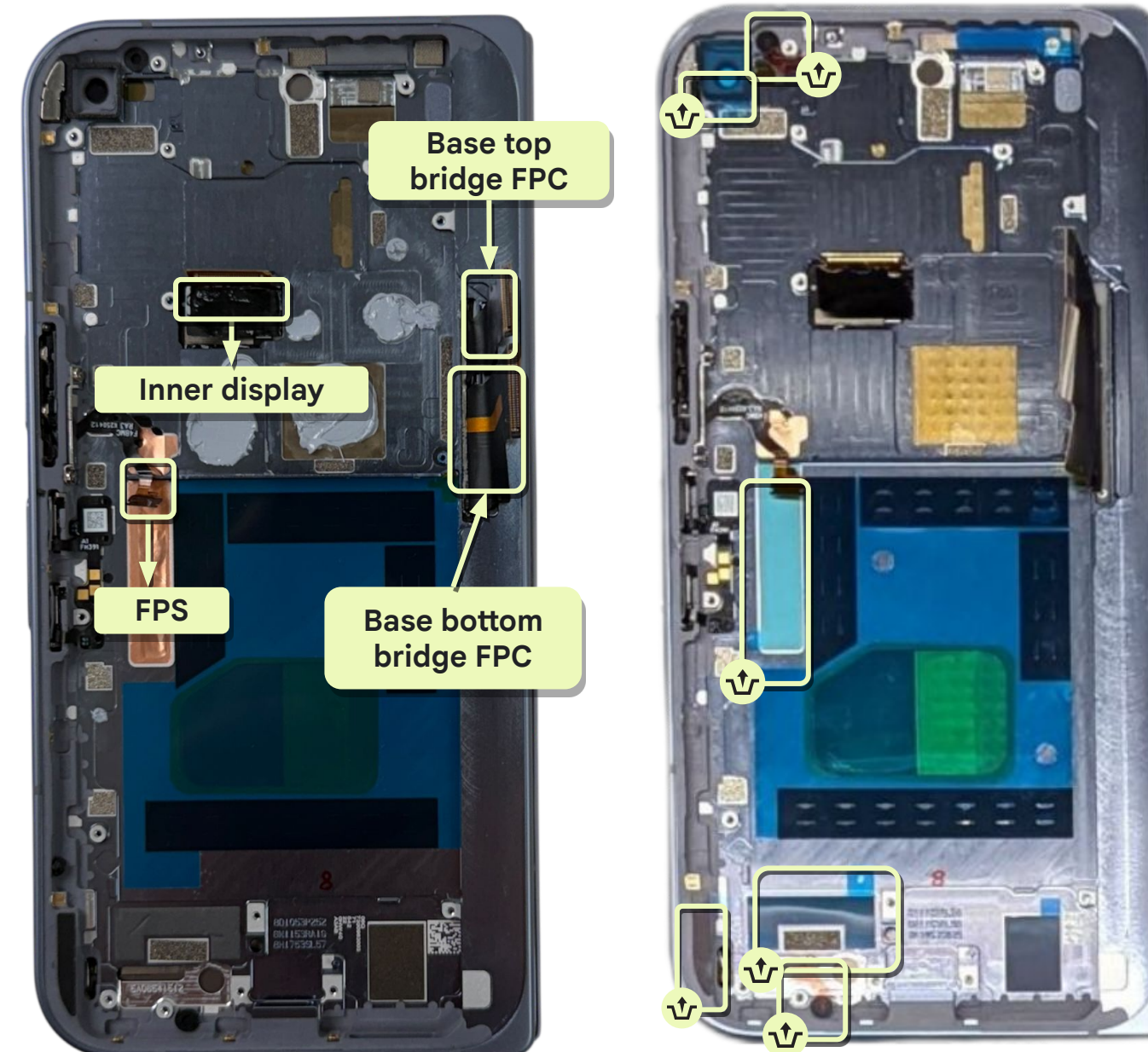
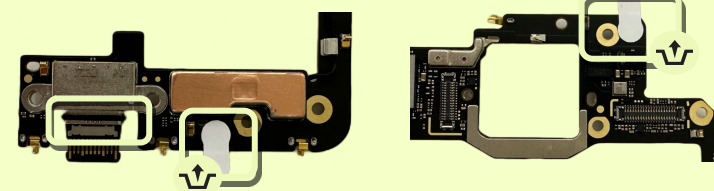
Leave the battery PSA liner in place.



Note

Clean the rubber surface with dust-free cotton swabs before installation.

Remove the mic protective liners on the logic board if you use a new logic board.



Reuse ID sub

New ID sub

Keep the logic board

- Keep a piece of **liner** on the mic1 mesh located in the lower left corner of the **logic board**.
- Insert the sticking out lower tip of the **logic board** into the USB slot to install it downward, and pull out the inserted liner.
- Install the **logic board** by gently pushing it to the left to prevent spring damage.
- Make sure that the **inner display FPC** passes through the gap between the **logic board** and the bottom of the **RCAM**.



Note

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

During installation, make sure that the base top bridge, base bottom bridge, and FPS cables aren't trapped under the logic board.



Note

Make sure that the logic board is properly installed sits against the alignment pins, as shown in **Fig 1**, and it sits against the retaining wall, as shown in **Fig 2** and **Fig 3**.

Fig 1



Fig 2

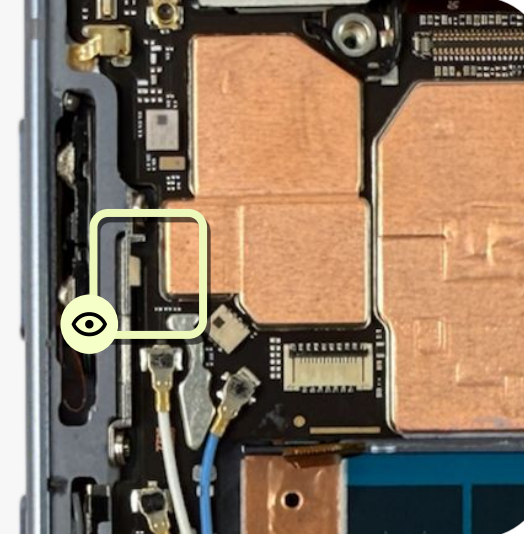
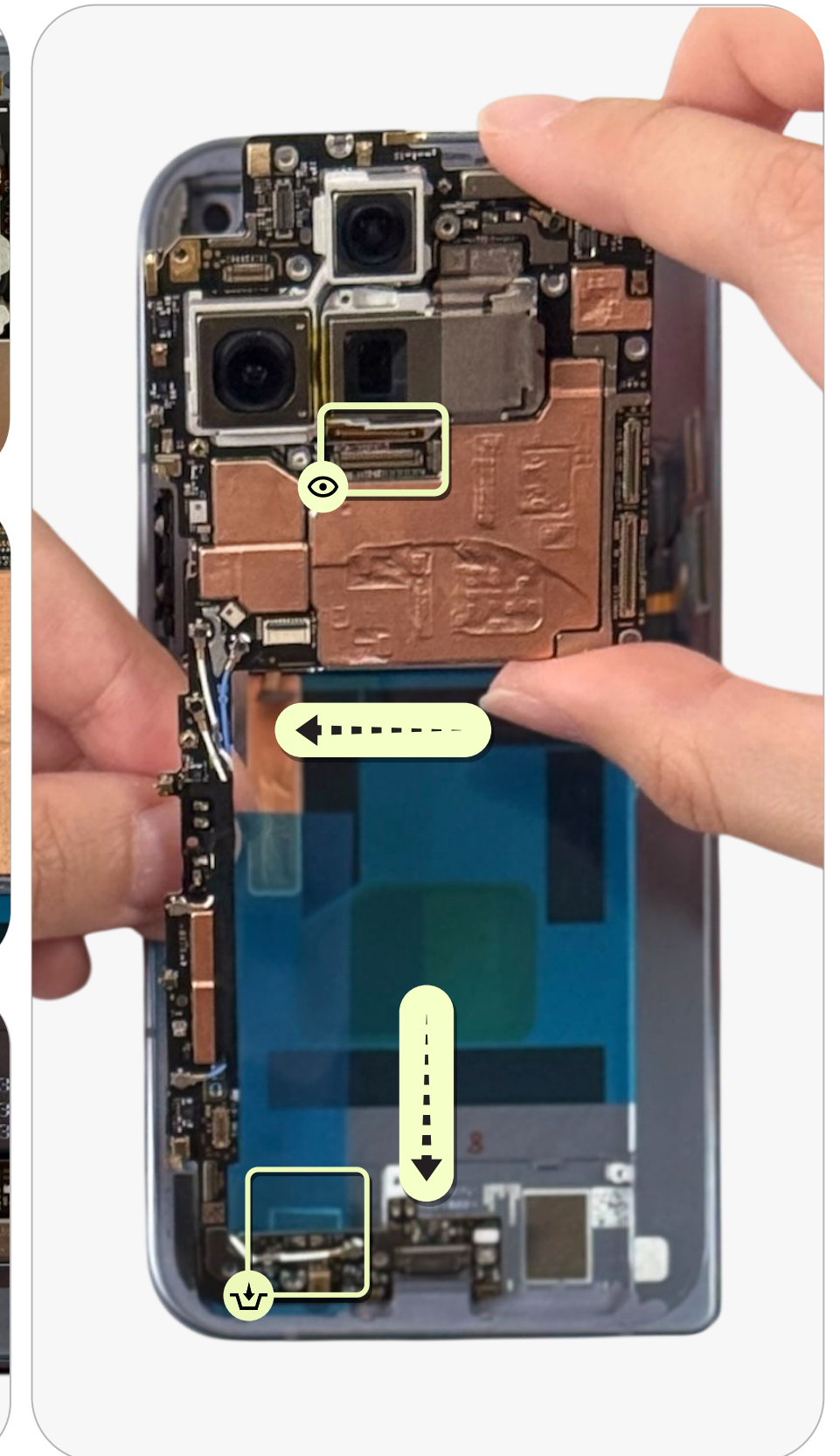
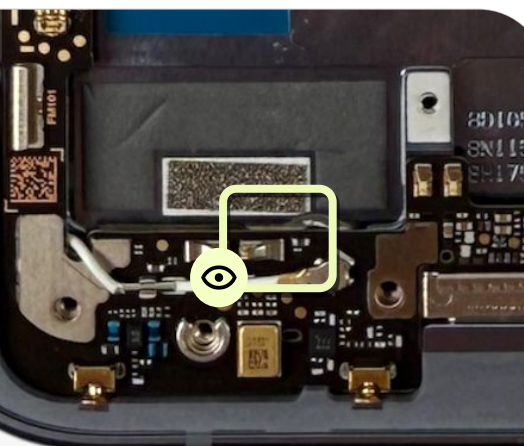


Fig 3



Insert the FPS flex to ZIF connector

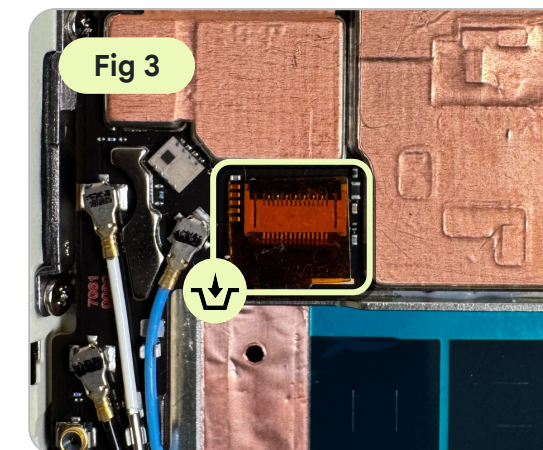
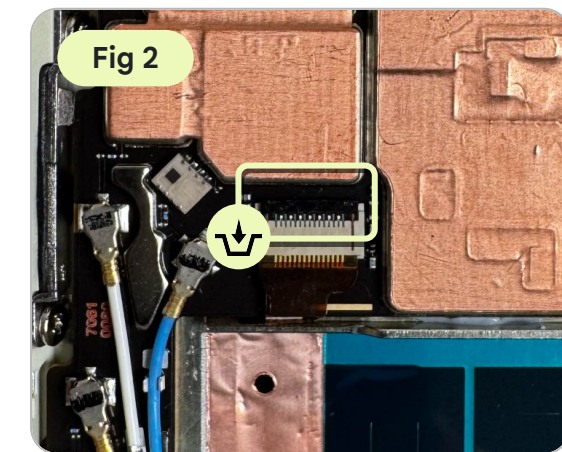
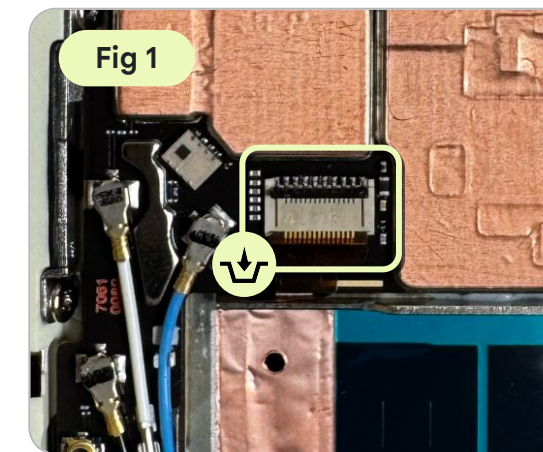
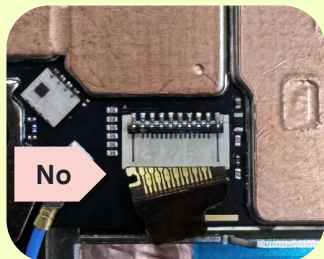
- Insert the FPS flex into the ZIF housing, to ensure full seating, as shown in **Fig 1**.
- Lock the latch for secure connection, as shown in **Fig 2**.
- Apply Kapton for insulate and protect, as shown in **Fig 3**.

Part: G806-14456-01 (FPS Kapton)



Note

Check if the FPS flex cable is fully seated in the housing.



Screw the logic board in place

- Tighten the four **logic board screws**.
- Tighten the screws a second time to make sure that there's firm attachment.

Part: G250-06623-00 *4 (screws)



Note

Don't reuse the screws.





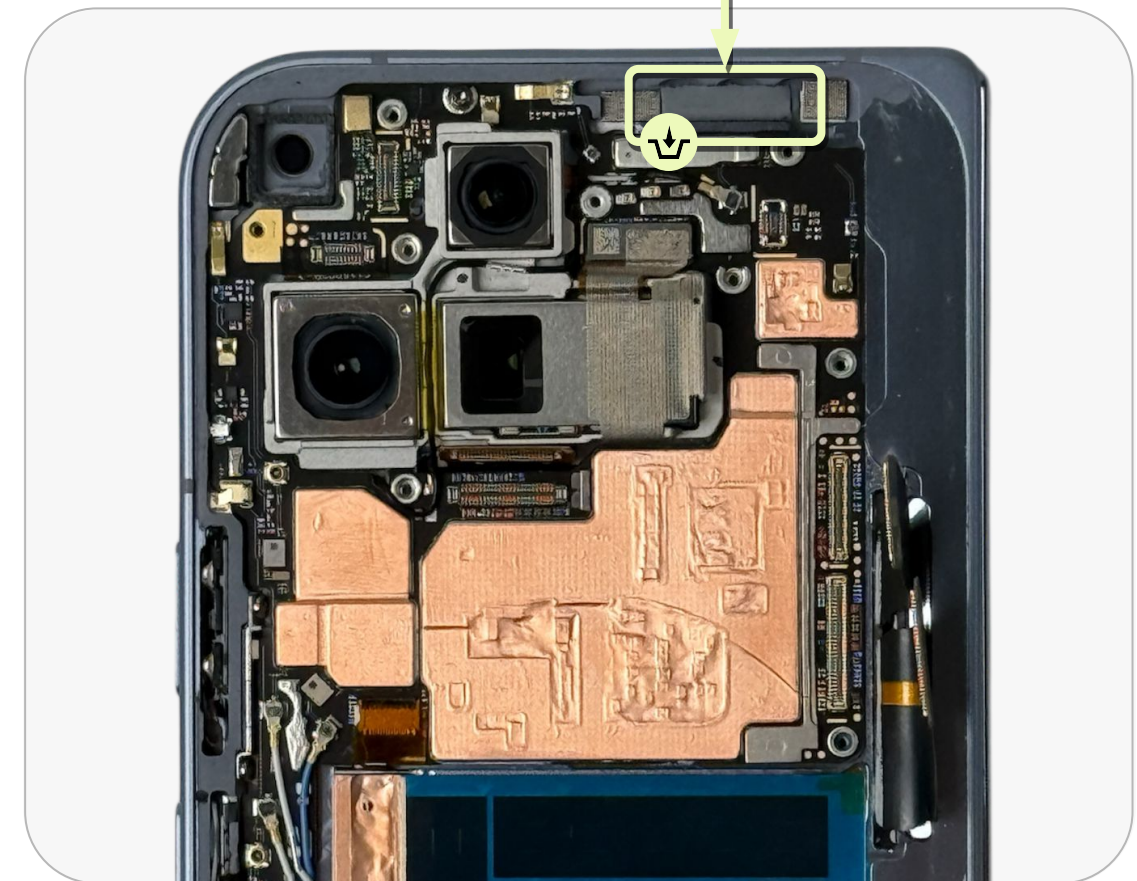
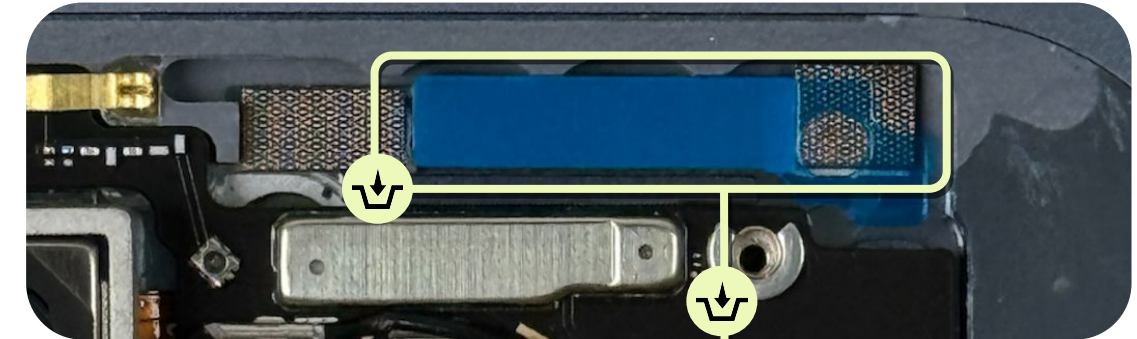
Assembly
instructions

mmWave module and IF FPC

Reuse the mmWave module

- Use a **spudger** to remove residual thermal pad and replace the new **thermal pad** between the two FOFs.
- Tear off the blue liner.

Part: G864-01047-00 (5G thermal pad)



Connect the mmWave module and IF FPC

- Connect the **IF FPC** to the **mmWave module**.
- Keep the **mmWave module** and **IF FPC** onto the **enclosure**, and connect it to the **logic board**.

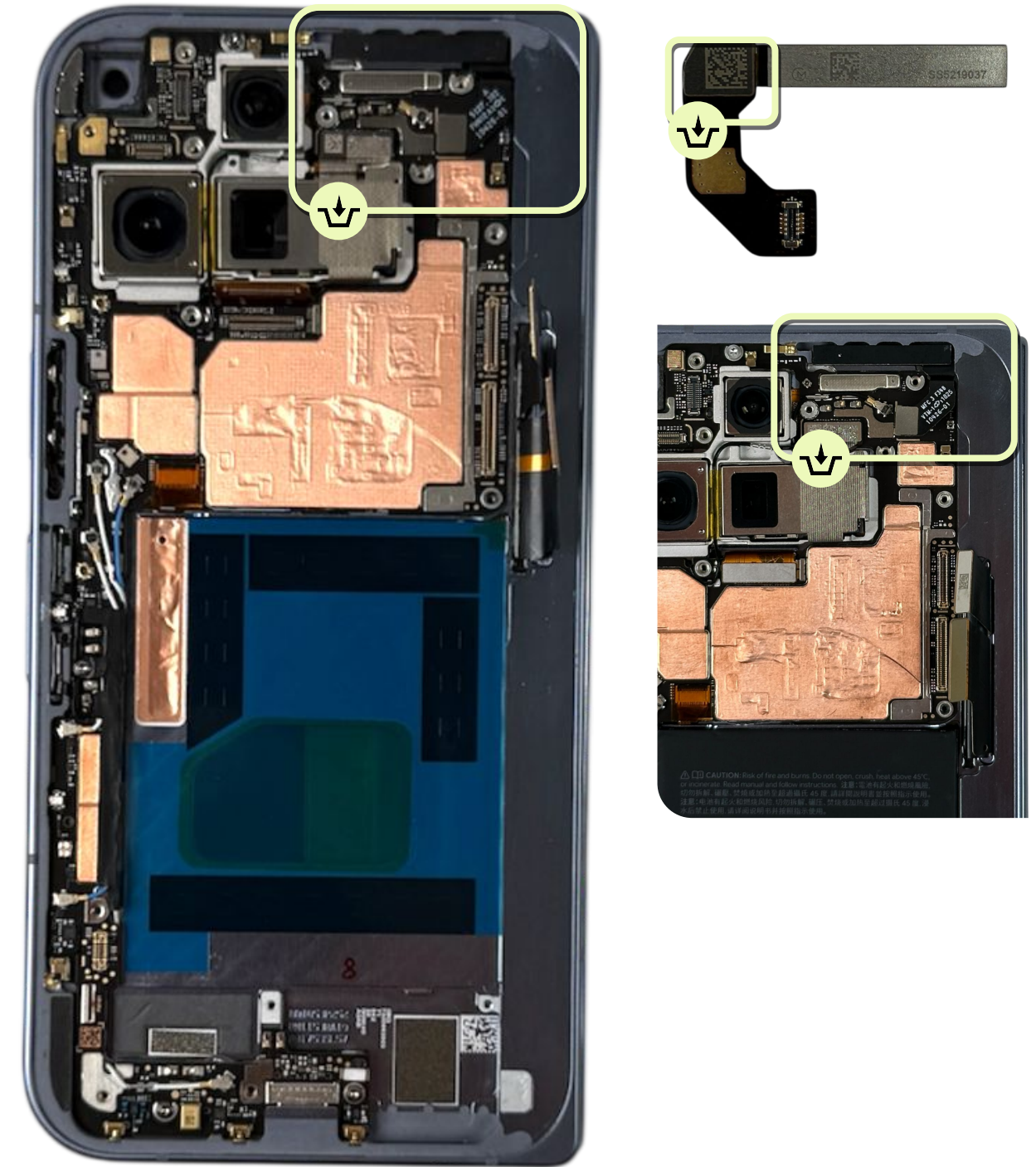
Part: G345-01633-02 (mmWave module)

Part: G652-10426-01 (IF FPC)



Note

Check if every connector is fully attached.



Screw the mmWave cowling

- Fasten the **mmWave cowling screws** with a torx plus 3IP screwdriver.
- Tighten the screws a second time to secure them in place.

Part: G730-09676-00 (mmWave cowling)

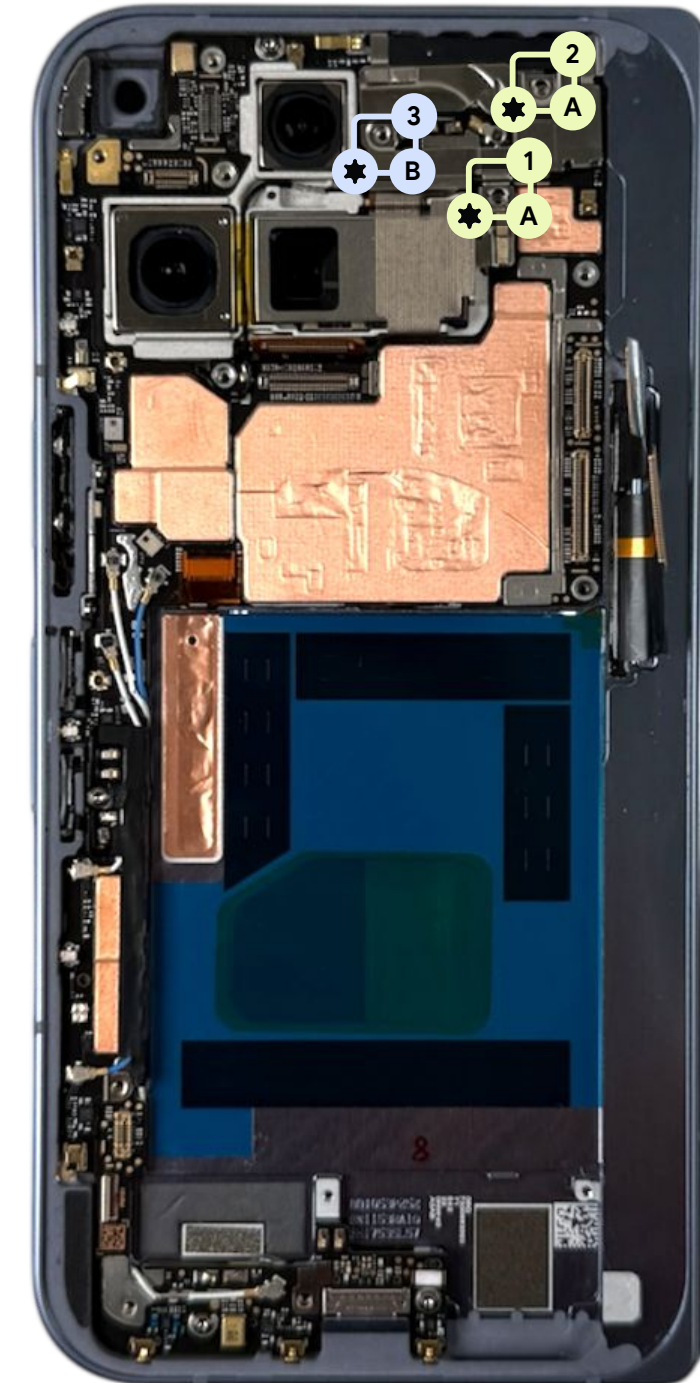
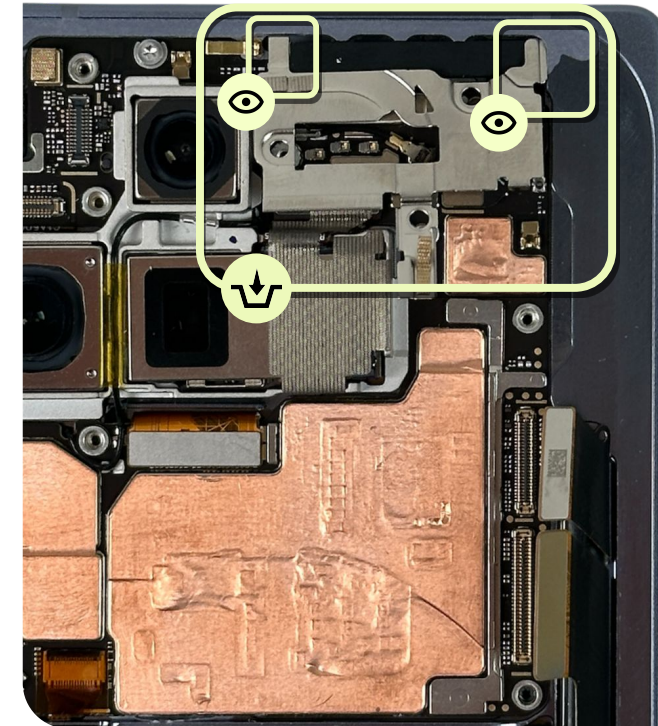
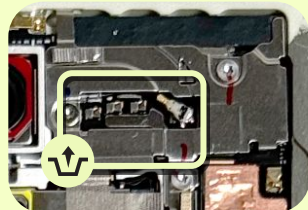
Part: G250-06623-00*2 (screw)

Part: G250-06986-00 (screw)



Note

Don't touch the flash spring.



A: G250-06623-00

B: G250-06986-00

Connect the base bridges

Connect the **base top** and **bottom bridges** to the **logic board**.



Note

Check if every connector is fully attached.

Connect the ID

Lift up the ID sub at a 45 degrees angle and buckle the connector from the right to left.



Note

Check if every connector is fully attached.

Fig 1

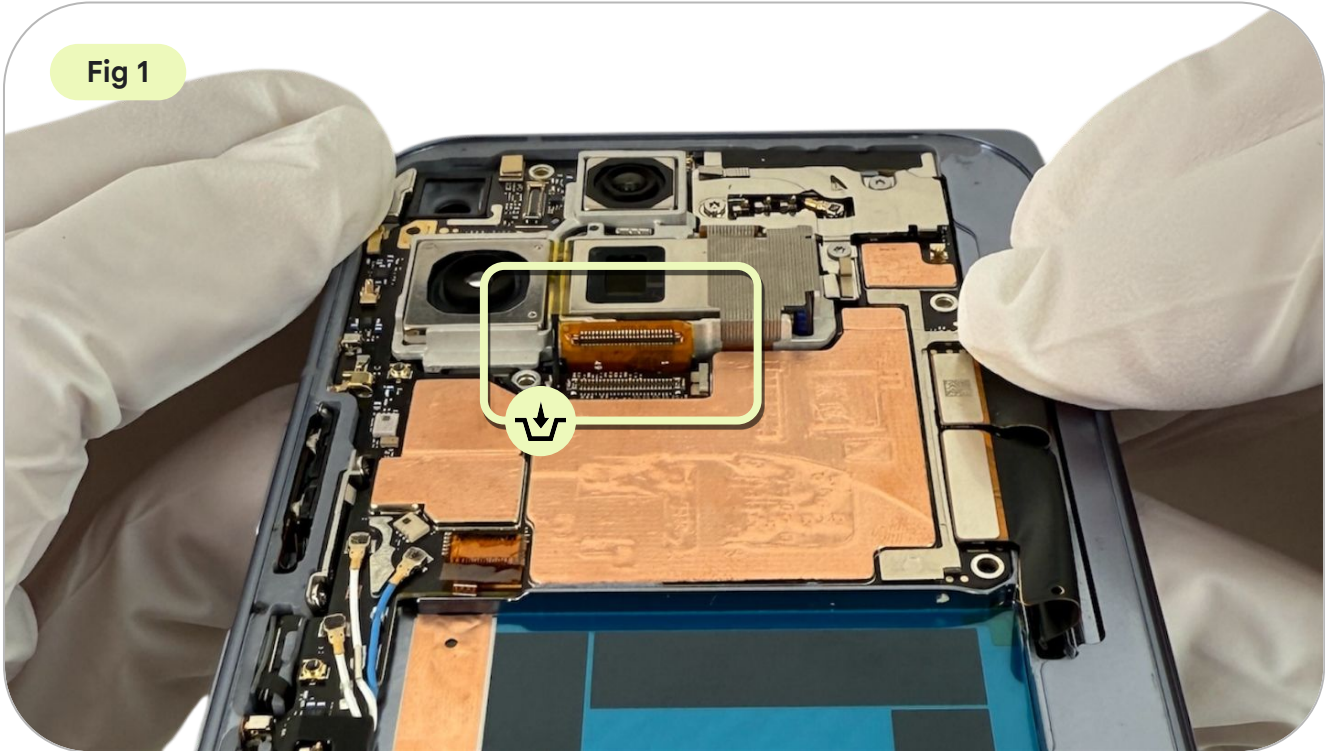
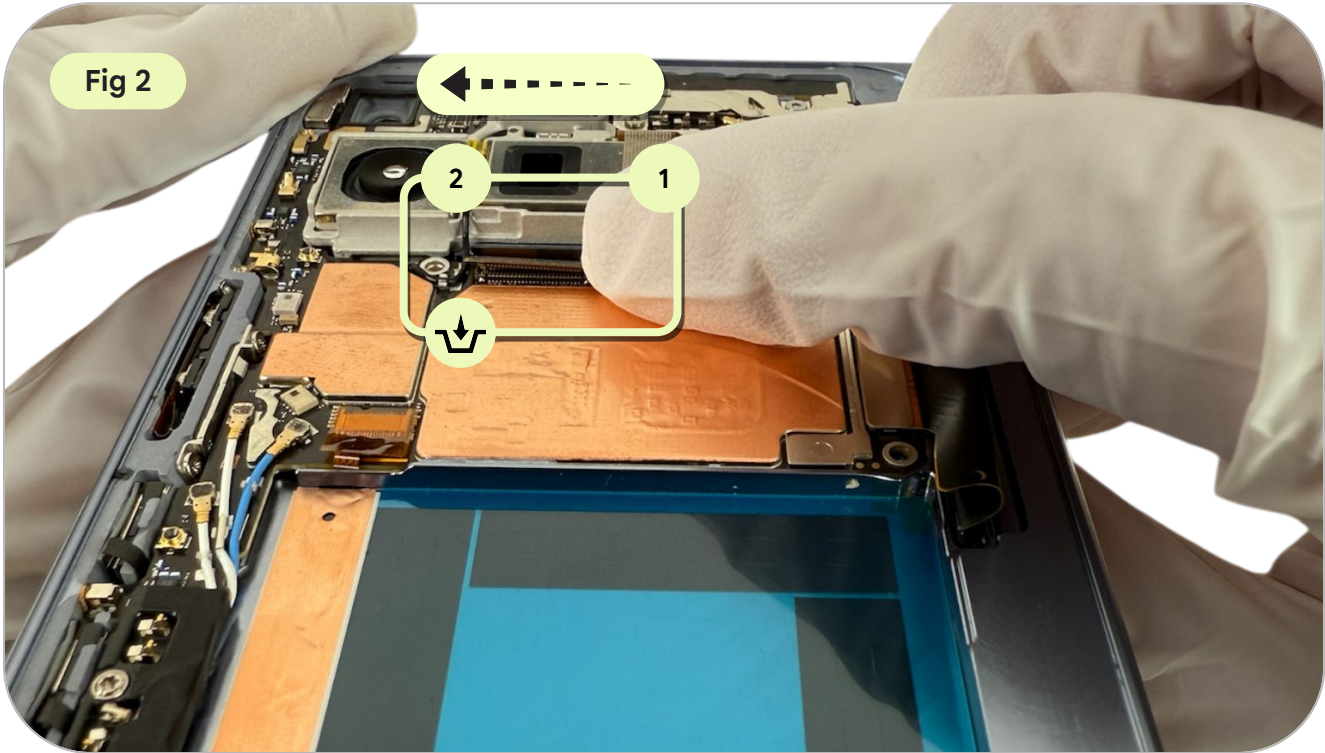


Fig 2



Reuse the ID cowl

- Use a **spudger** to remove residual adhesive from the **cowl**.
- If residue remains, clean the surface with a **dust-free cloth** and **IPA**.
- Apply a new **ID cowl PSA** to the designated position, as shown in **Fig 2**.

Part: G730-09680-00 (ID cowl)

Part: G806-14384-00 (ID cowl PSA)



Note

The ID cowl comes with the PSA. Perform this step only when you reuse the part.



Fig 1

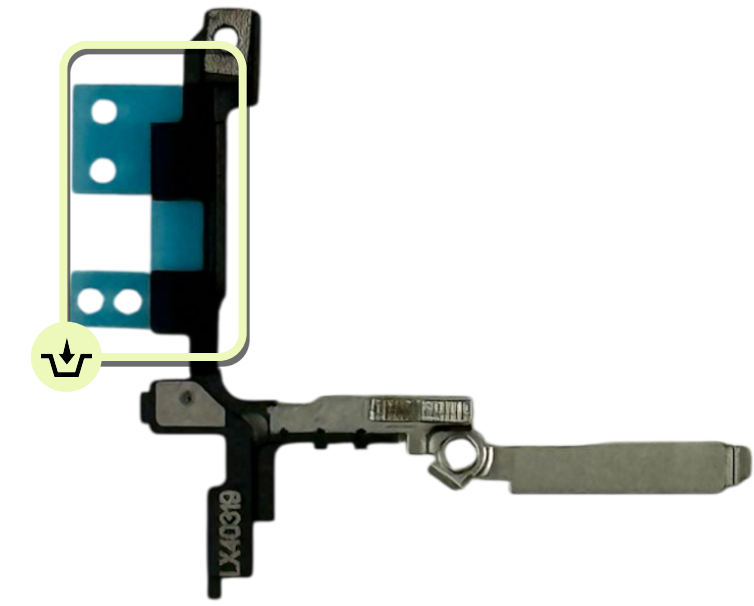


Fig 2

Install the base bridge and ID cowlings

- Insert the bridge of the **base bridge cowling** into the enclosure groove, as shown in **Fig 1**.
- Install the **ID cowling**, and make sure that the lower right and left end touches the retaining wall, as shown in **Fig 2** and **Fig 3**.
- Screw both cowlings into place with a **torx plus 3IP screwdriver**.
- Tighten the screws a second time for a secure fit.

Part: G730-09678-00 (base bridge cowling)

Part: G730-09680-00 (ID cowling)

Part: G250-06623-00*3 (screw)

Part: G806-14384-00 (ID cowling PSA)

Fig 1

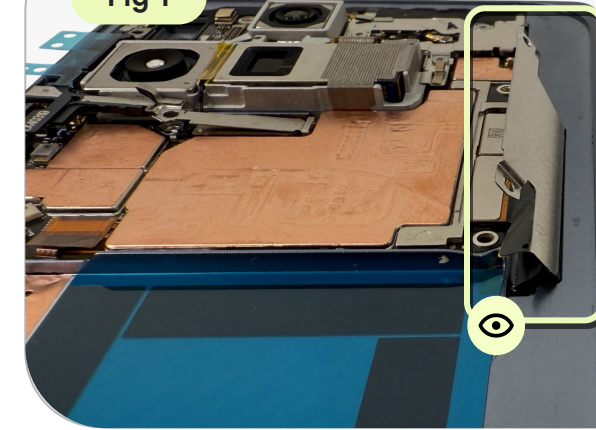


Fig 2

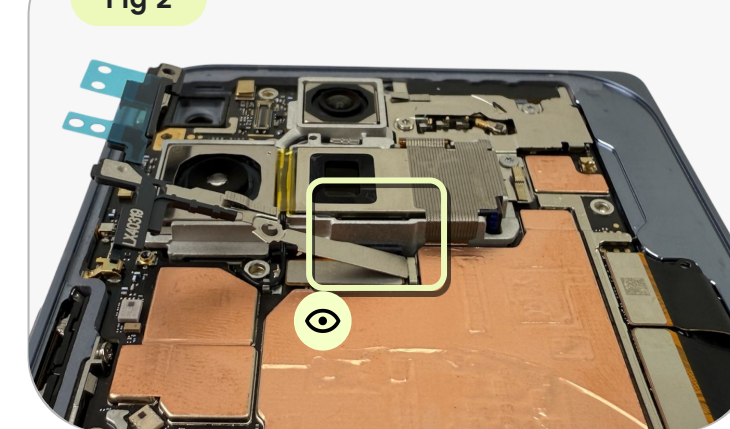
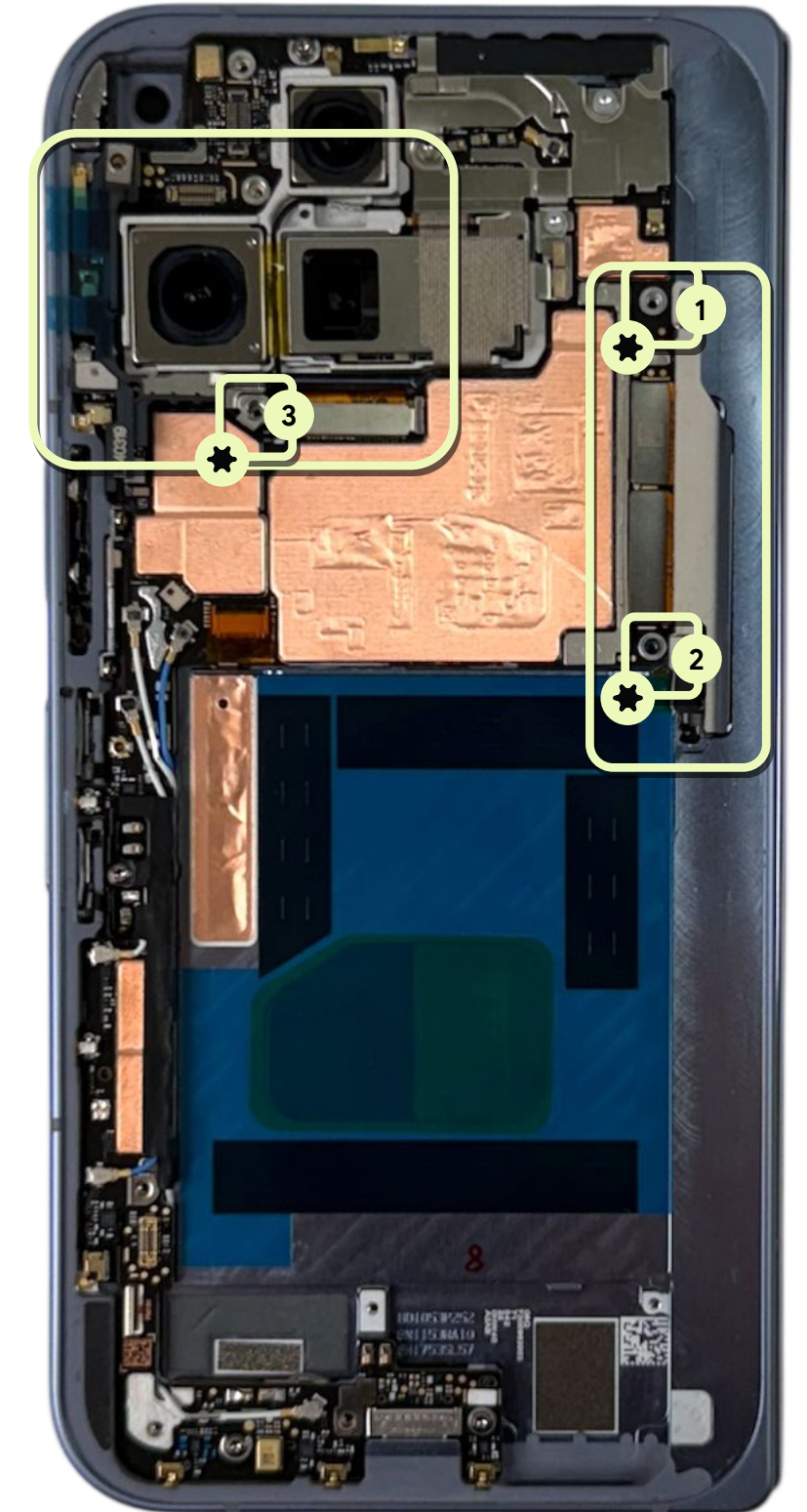
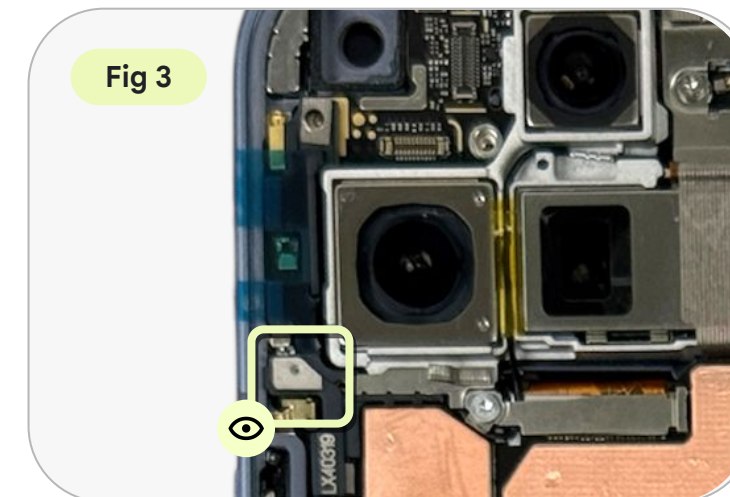


Fig 3





Assembly
instructions

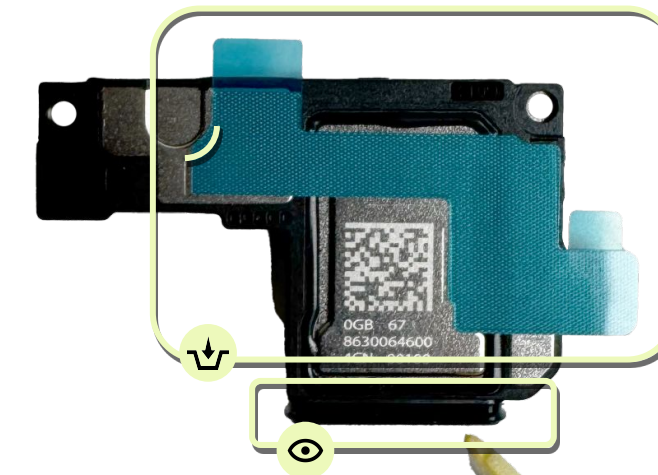
Bottom speaker

Apply the bottom speaker tape

- If you reuse the **bottom speaker**, remove the adhesive with a spudger. Wrap a spudger with a **dust-free cloth**. Dip it in **IPA** to clean residue.
- Apply the **conductive tape** to the bottom speaker and align it with the curve in the upper left corner.
- Clean the **rubber** in the bottom with a dust-free cotton swab.

Part: G863-00646-00 (bottom speaker)

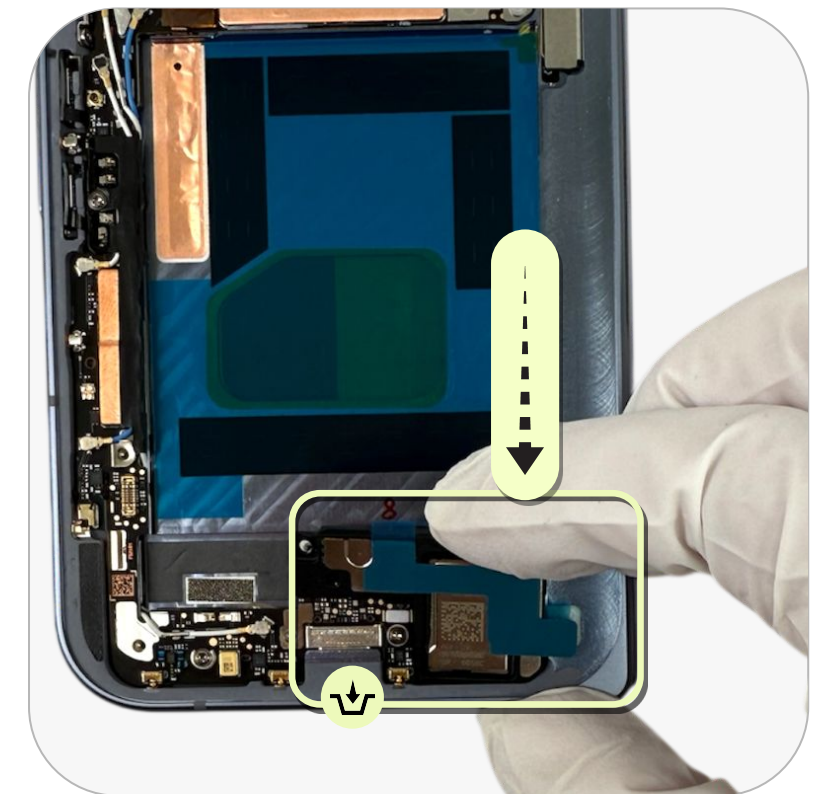
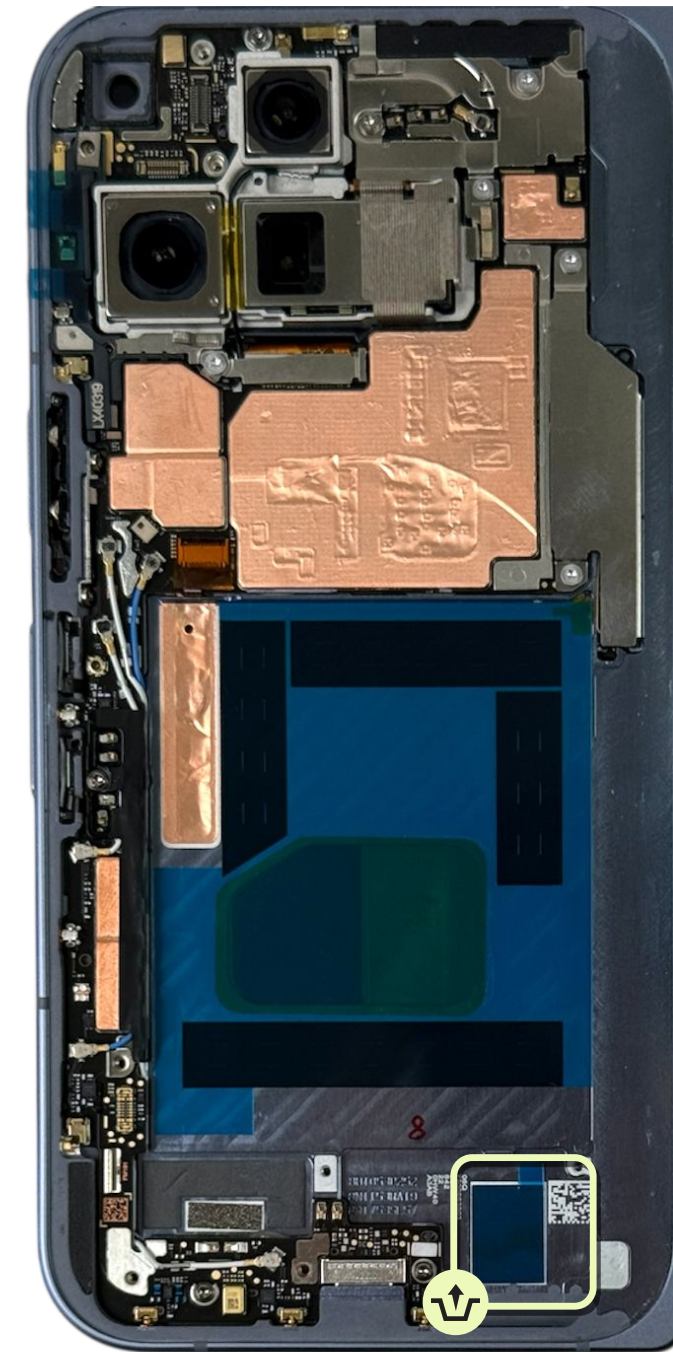
Part: G806-14375-00 (conductive fabric)



Attach the bottom speaker

- Remove any residual **bottom speaker PSA** and replace it with a new one if you reuse the **enclosure**.
- Tear off the blue liner.
- Install the **bottom speaker** at an angle under the **enclosure rim**.
- Press down for **six** seconds.

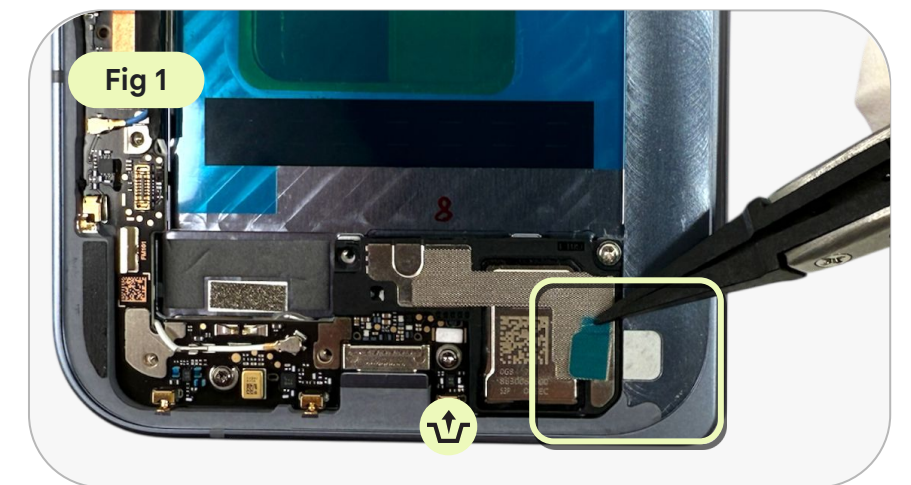
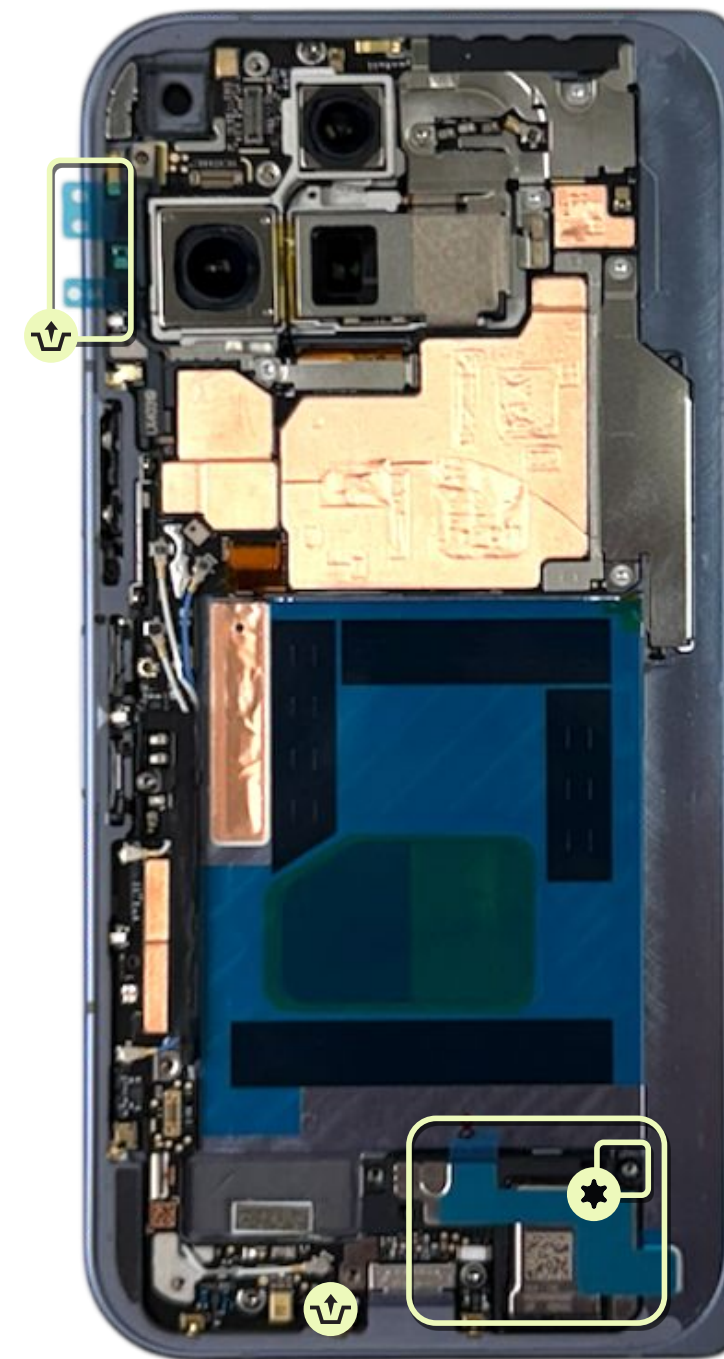
Part: G806-13932-00 (bottom speaker CPSA)

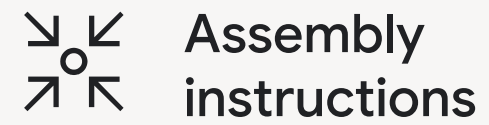


Secure the bottom speaker

- Tighten bottom speaker screw.
- Tighten the screws a second time for a secure fit.
- Remove the **conductive tape liner** and **ID cowling liner**.
- Peel off the liner from the opposite side of the conductive tape and paste on the designated position, as shown in **Fig 1**.

Part: G250-08005-12 (screw)





Base battery

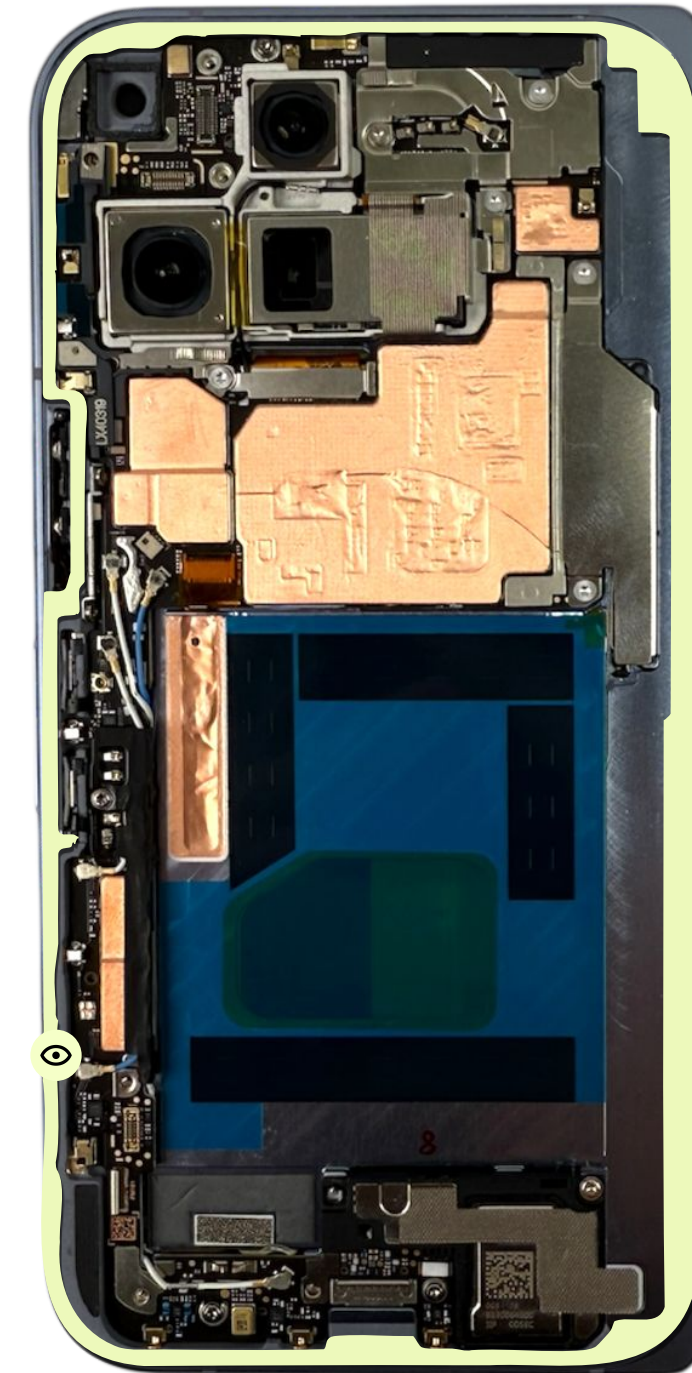
Apply the 3M AP111 primer

- Apply **IPA** around the **enclosure's** edges with a **dust-free cotton swab**.
- Apply one round of **3M AP111 primer** around the **enclosure's** edges with a **dust-free cotton swab**.



Use caution

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



Align the BG PSA

- Slowly remove the larger liner from the **adhesive sheet** to expose the adhesive.
- Keep the sheet over the device, to align it with the top side of the **enclosure**.

Part: G806-14457-00 (BG PSA)



Use caution

Don't touch the adhesive.

If it gets dirty, replace it.



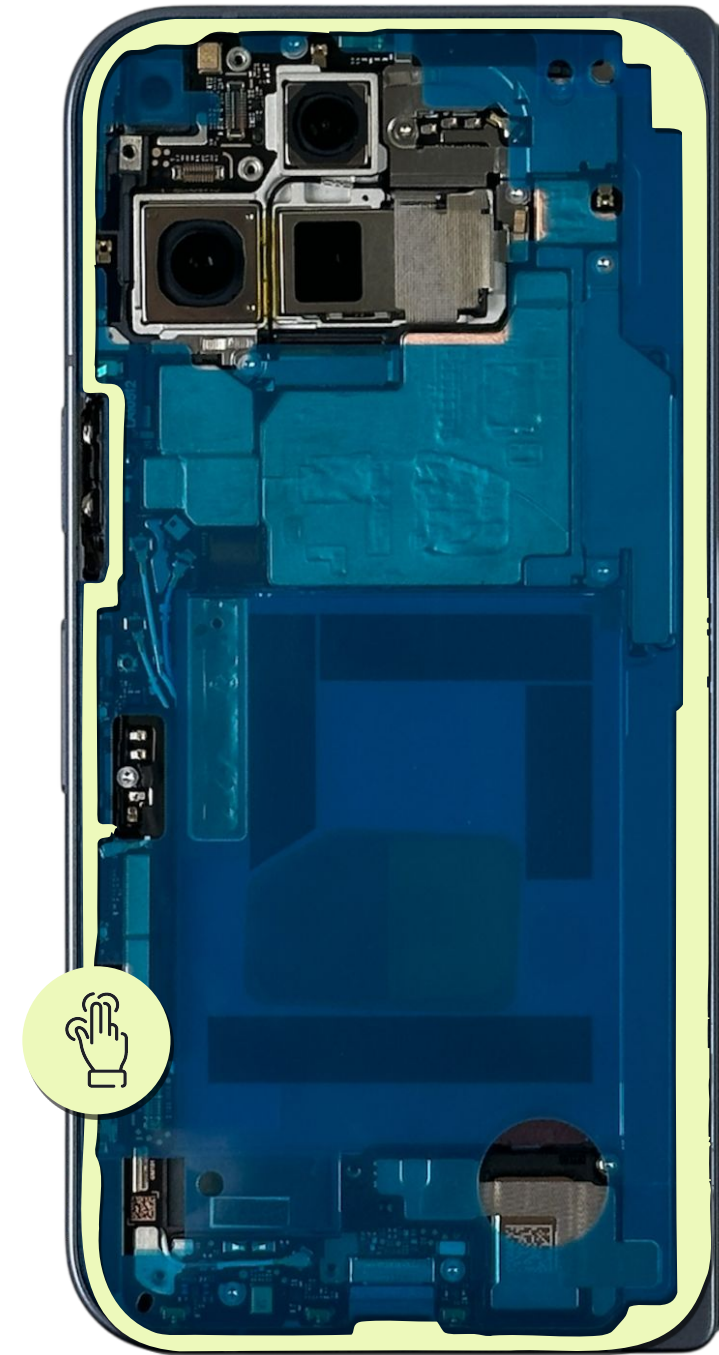
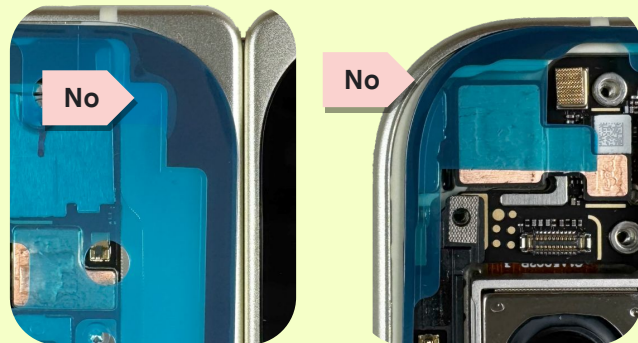
Activate the adhesive

- Make sure that the **adhesive** is fully seated on the **enclosure**.
- Activate it with a **spudger**.



Note

Check for mis-alignment and replace it.



Remove the liner (first layer)

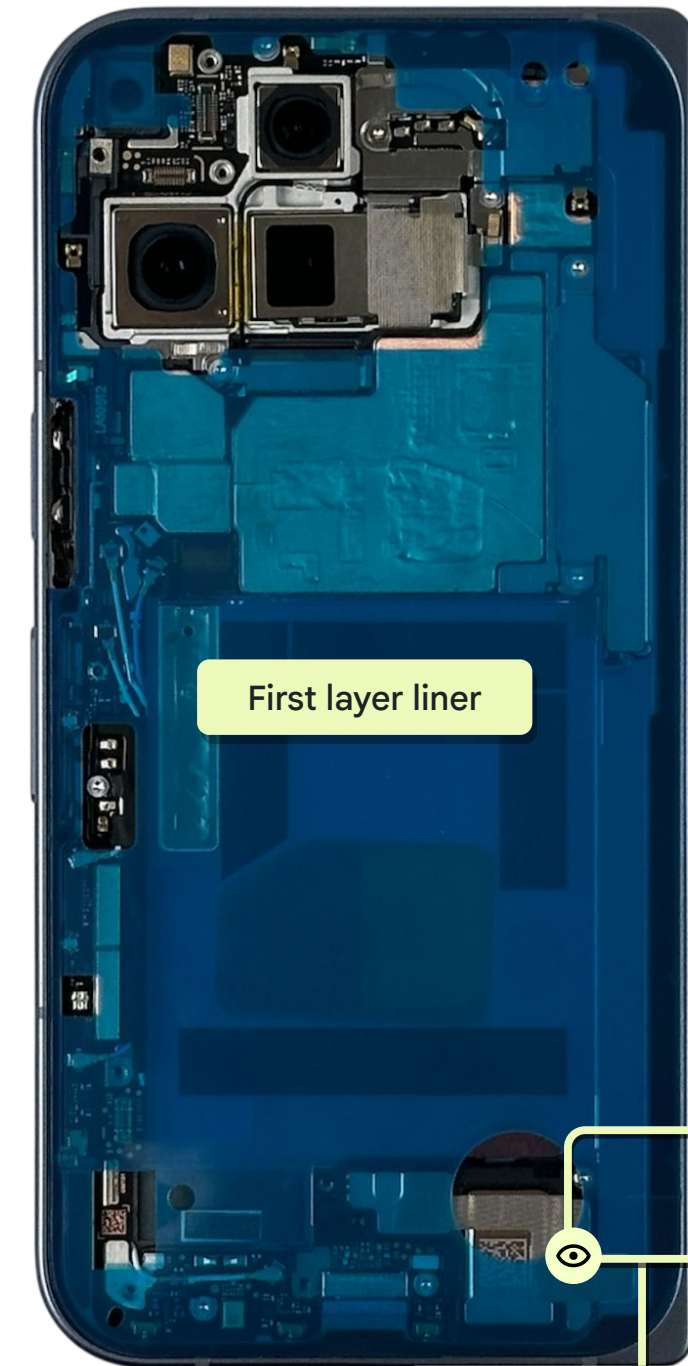
Pull the tab carefully to remove the liner.



Use caution

Don't lift the adhesive.

Don't remove the second layer of the liner.



First layer liner

Grab the tab here.

Apply the AP111 primer

- Remove debris and loose screws from the enclosure before you install the base battery.
- Peel off the blue liner.
- Apply AP111 across the base battery's back side, excluding the pull jacket.

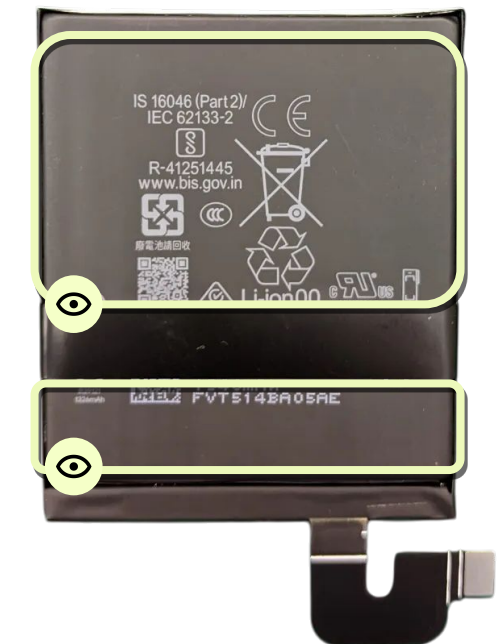
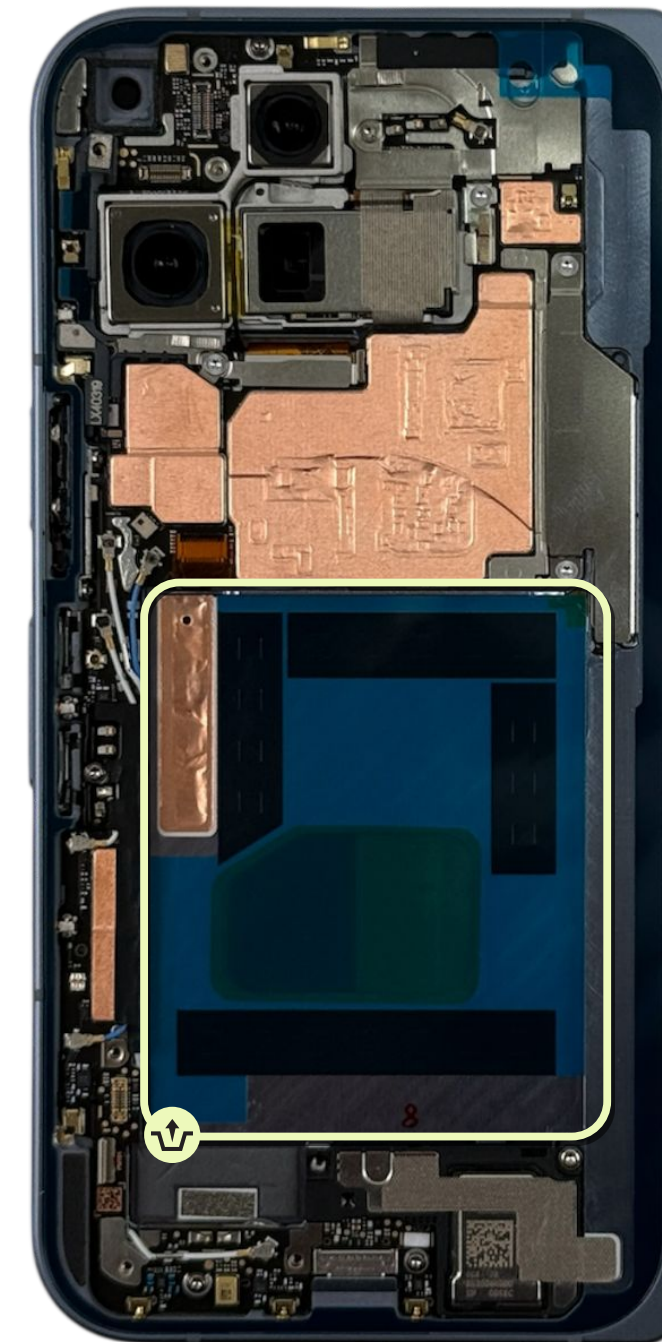
Part: multiple part numbers (base battery)



Use caution

Review all safety precautions before you begin work.

Make sure that the battery cosmetic checks are completed.



Position the base battery

- Confirm the battery model to be **GU46C**, as shown in **Fig 1**. If the model number isn't **GU46C**, please *don't* use the battery.
- Use an **adsorption bulb** with a smaller suction cup to pick up the battery.
- Align it to the **upper-right** corner of the depression and push it to upper side and right side as much as possible.
- Remove the adsorption bulb and the **white liner** carefully.



Use caution

Review all safety precautions before you begin work.



Note

The white liner ensures that the battery is in the correct position.

Don't remove it prior to the installation.



Note

Don't use the suction cup on the pull jacket.

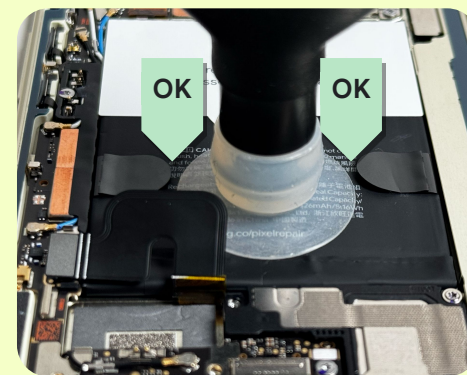
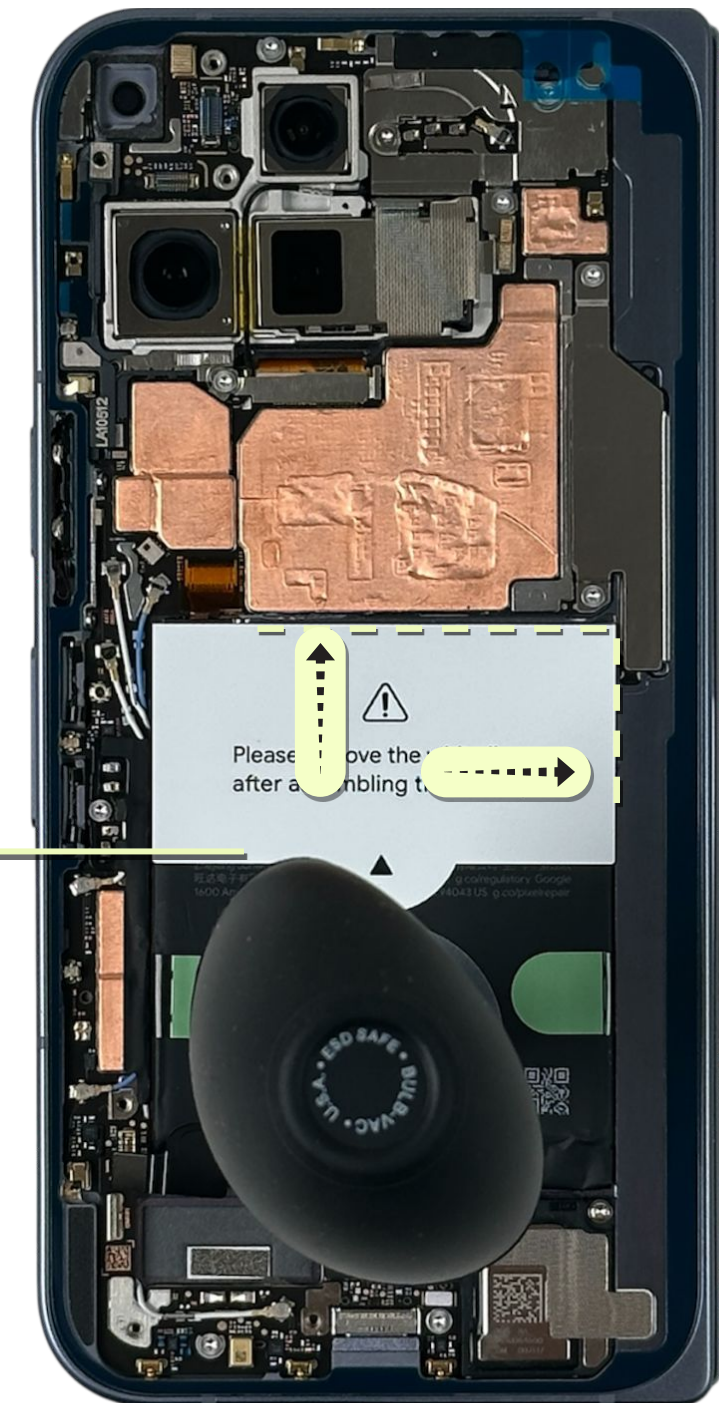
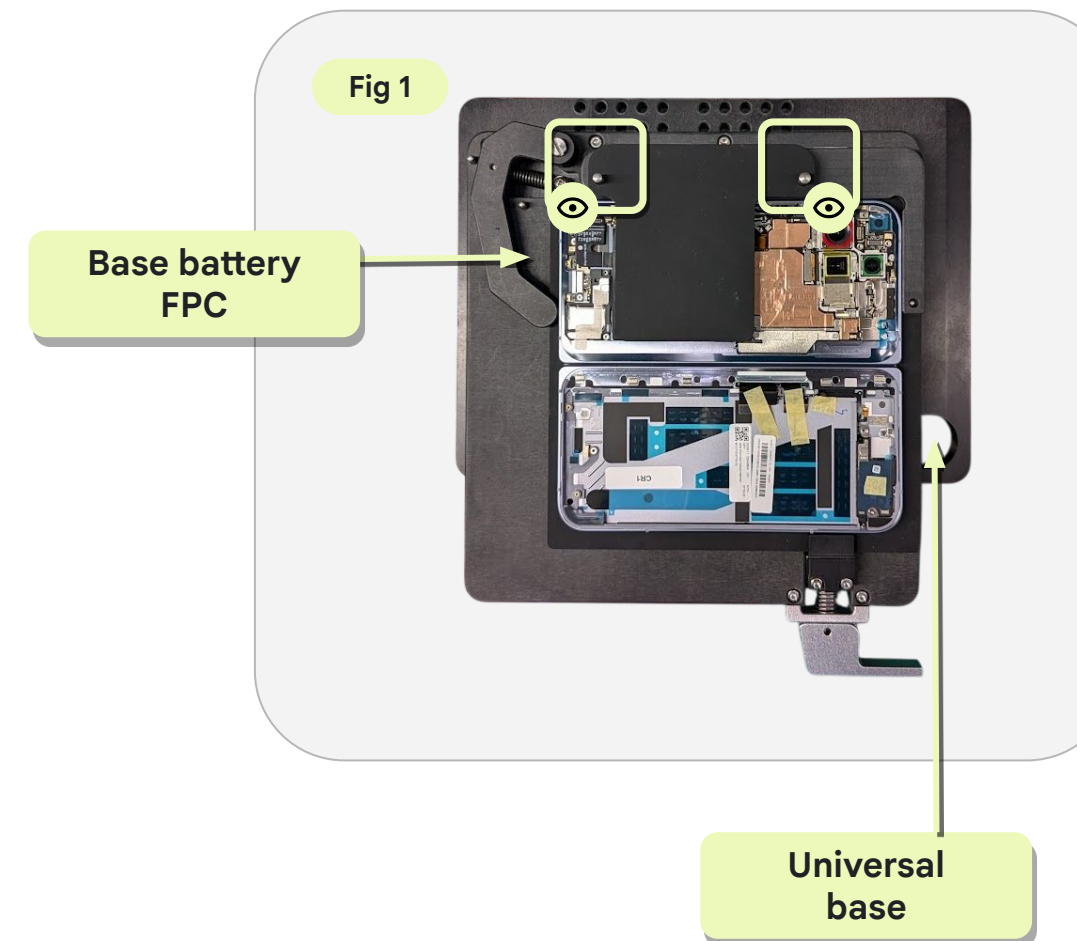


Fig 1



Press the base battery

- Keep the **universal supporting rubber #2** on the **universal holder #2**, and keep the **universal Holder limiting block #2** on top.
- Keep the **fixture** in position **B2** on the **universal base**.
- Keep the **Pixel 10 Pro Fold base battery press rubber** on top of the **universal holder #2**, as shown in **Fig 1**.
- Keep the **universal press plate 12 mm** on the **Pixel 10 Pro Fold base battery press rubber**, as shown in **Fig 2**.
- Keep it in the **universal press fixture**. Press the handle down for **25 seconds**, as shown in **Fig 3**.



Use caution

Keep hands clear during operation.



Note

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



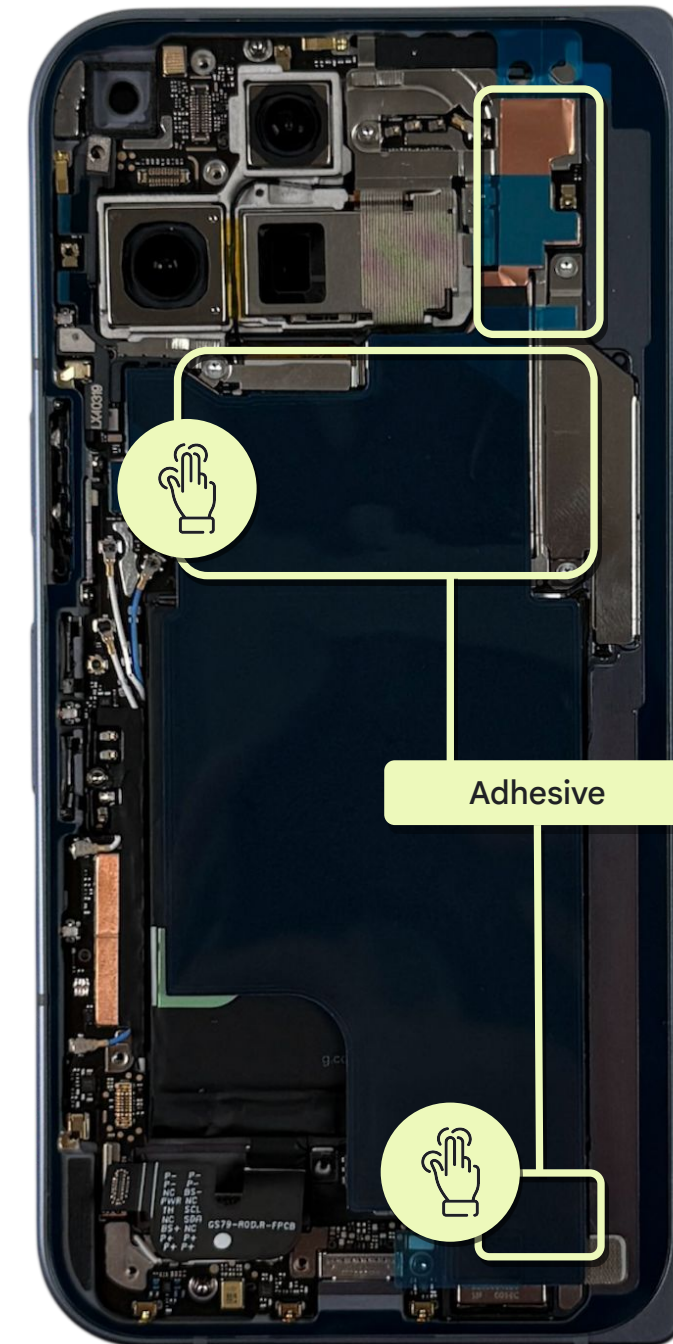
Assembly
instructions

Vibrator with cowling

Apply the graphite sheet

- Align the **graphite sheet** with the outline.
- Press down on the **adhesive** to secure it and remove air pockets.
- Remove the liner.

Part: G864-01067-00 (graphite sheet)



Apply the RF sponge

- Attach the **RF sponge**, to ensure that the slanted corner aligns with the slanted side of the triangle.
- Carefully remove the liner.

Part: G806-15352-00 (RF sponge)



Connect to the logic board

Connect the **base battery** to the logic board.



Note

Make sure that the connector is securely attached to the logic board.



Place the vibrator with cowling

- Install the **vibrator with cowling** at an angle to the left so it goes under the hook, as shown in **Fig 1**.
- Tighten the four vibrator cowling screws.
- Tighten the screws a second time to ensure that there's a firm attachment.

Part: G949-01536-00 (vibrator with cowling)

Part: G250-08004-20 *4 (screws)



Use caution

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

Incorrect use of the screwdriver might result in injuries to yourself or others, along with the damage to the battery or the product.



Note

Tear off the blue liner if you use new vibrator with cowling.

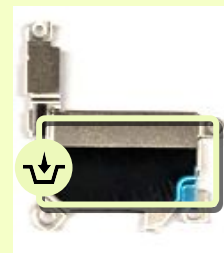
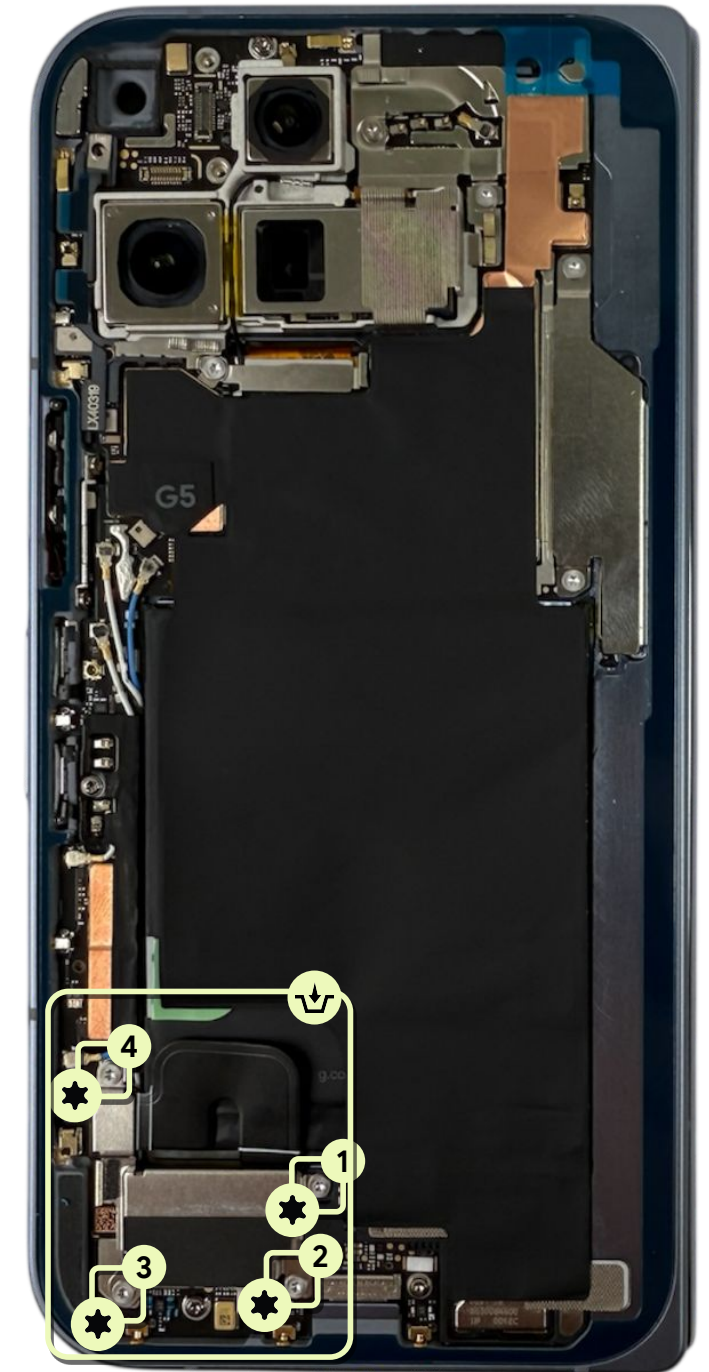


Fig 1





Assembly
instructions

Inner front camera

Attach the inner FCAM

- Remove the **inner FCAM cap** and **protective film** before installation, if you use a new inner FCAM or new ID sub.
- Assemble the **inner FCAM** in the **enclosure** slot.
- Connect the **inner FCAM connector** to the **logic board**.

Part: G949-01530-00 (inner front camera)



Note

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



Assembly
instructions

BG (back glass) sub

Reuse the BG

- Use a **spudger** to remove glue from the **BG**.
- Use fingers or **tweezers** to remove large **adhesive** chunks. Repeat for any adhesive.
- If residue remains, clean the surface with a **dust-free cloth** and **IPA**.

Part: multiple part number (BG sub)



Apply the AP111 primer

- Apply **IPA** around the **BG** sub's edges with a **dust-free cotton swab**.
- Apply one round of **3M AP111 primer** around the edges with a **dust-free cotton swab**.

Part: multiple part number (BG sub)



Use caution

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



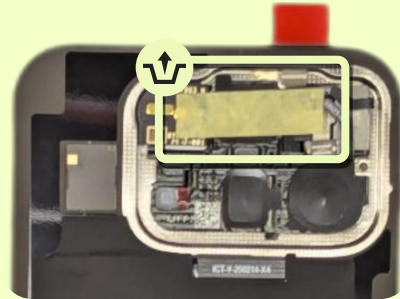
Connect the flam board

- Place the **BG** on top of the **enclosure** and prop up the BG sub.
- Apply even pressure with **tweezers** to connect the **flam board** to the **logic board**.



Note

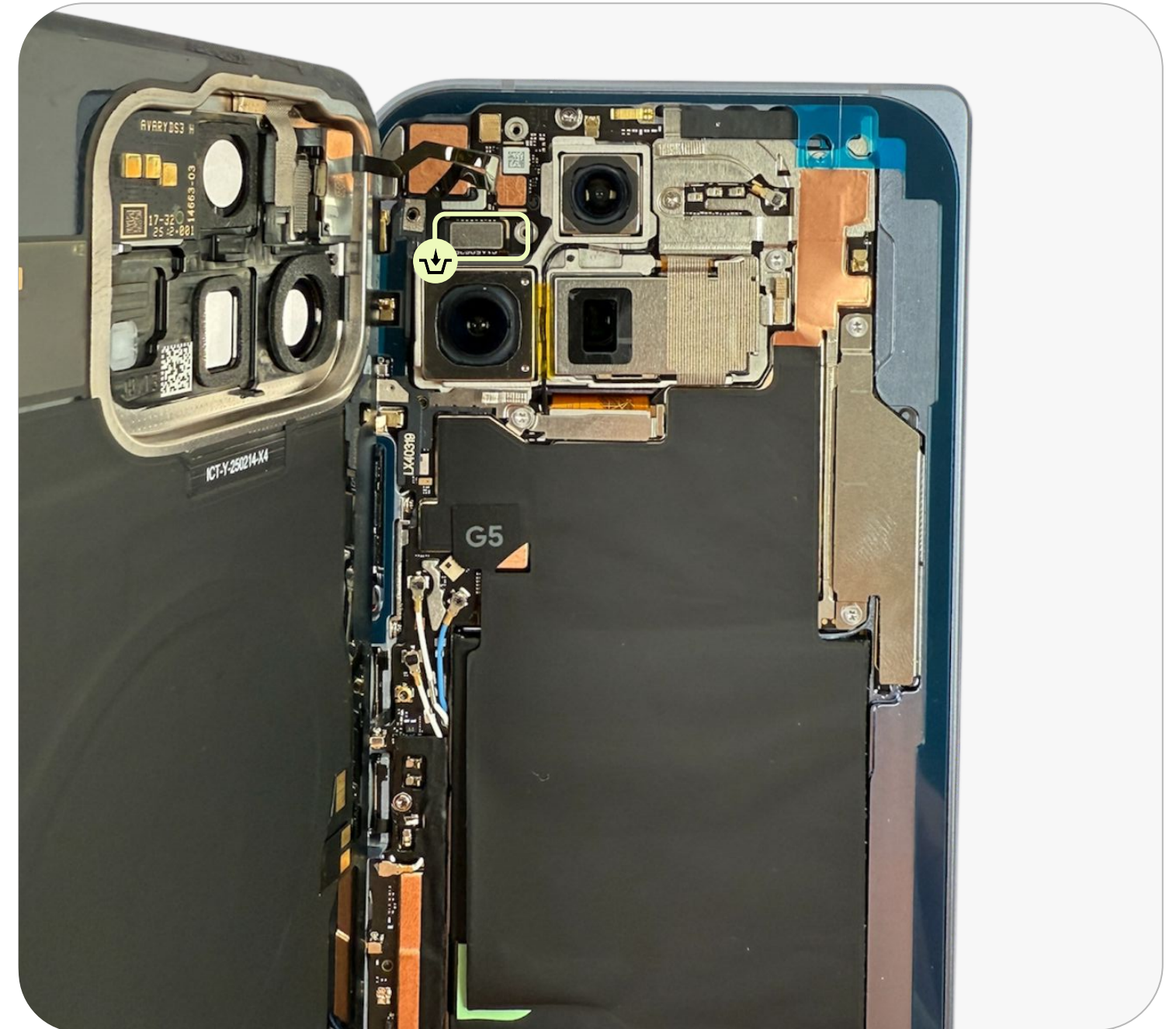
Remove masking tape from a new BG.



Use caution

When you attach the BG, **don't** damage or deform the FPC.

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



Check the display

- Remove the **inner display process protective film**.
- Power on with ESD spudger and **wait at least 10 seconds** to check if the device works properly. Power off after check.



Use caution

*Don't touch the ID's TP until it turns to the **welcome page** since touch panel self calibration is in progress.*

Follow the instruction:
TP calibration note



Reuse the inner FCAM cowling

- Apply a new **alignment mylar** to the designated position, as shown in **Fig 2**.

Part: G730-09675-00 (inner FCAM cowling)

Part: G806-16220-00 (alignment mylar)



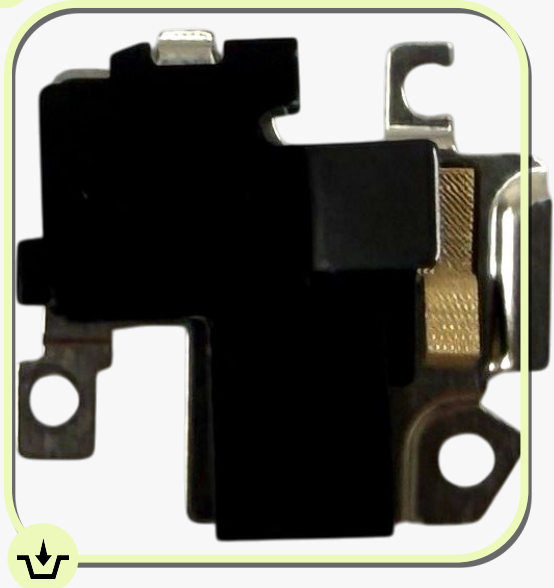
Note

The inner FCAM cowling comes with the alignment mylar. Perform this step only when you reuse the part.

Fig 1



Fig 1

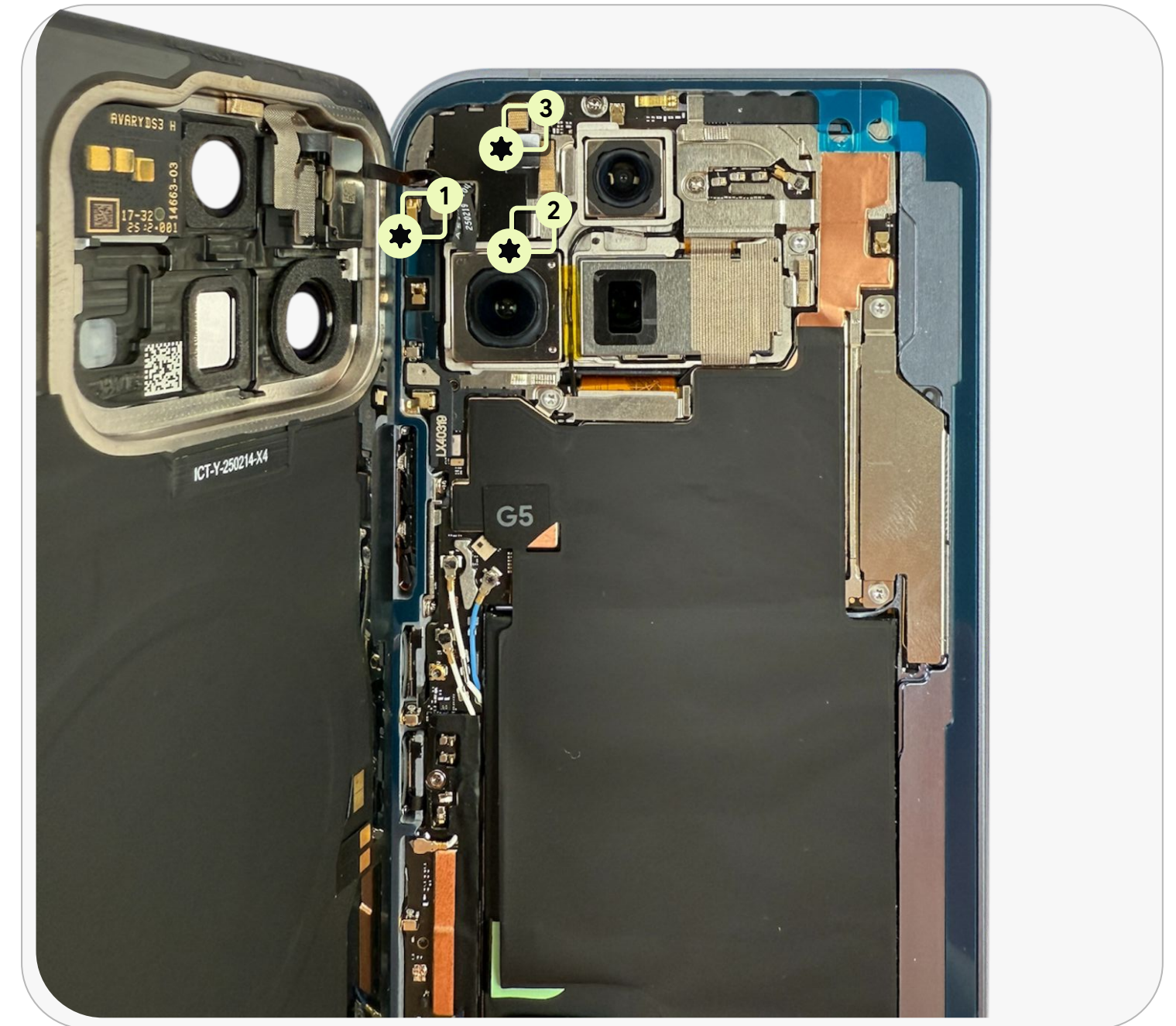
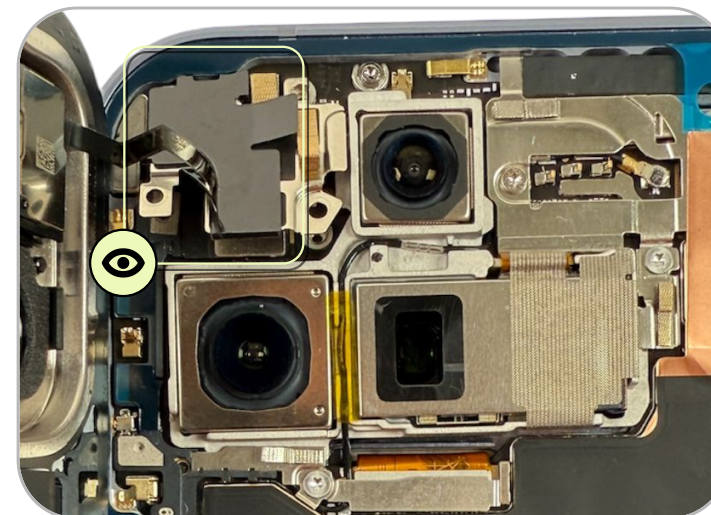


Secure the inner FCAM cowling

- Place the **FCAM cowling** on the **flam board FPC**, to cover the **connector**.
- Tighten the screws with a **torx plus 3IP screwdriver**.
- Tighten them again for secure placement.
- Remove the alignment mylar.

Part: G730-09675-00 (inner FCAM cowling)

Part: G250-08004-20 *3 (screws)



Remove the caps and liners

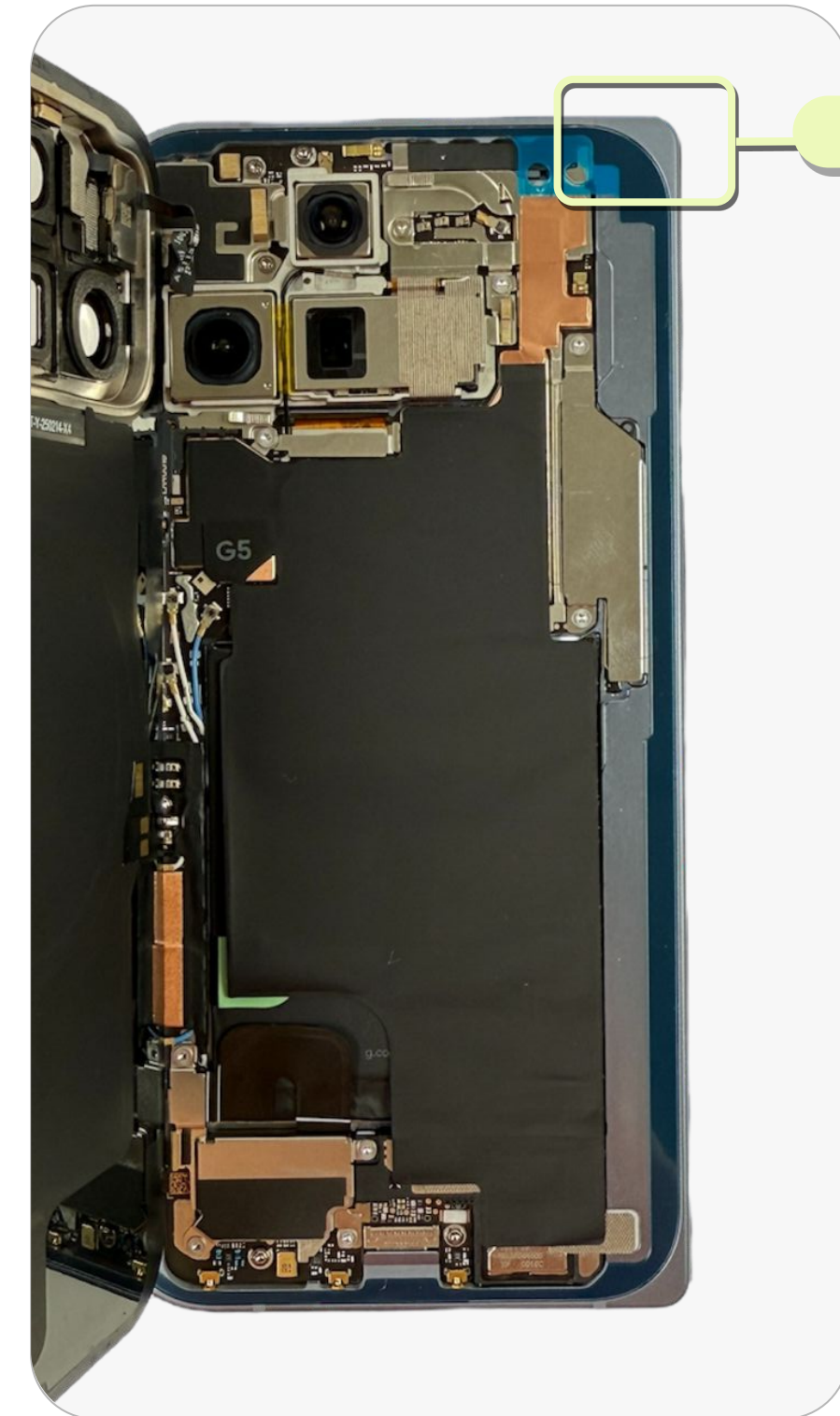
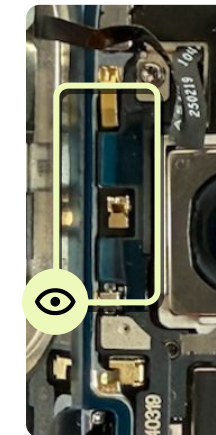
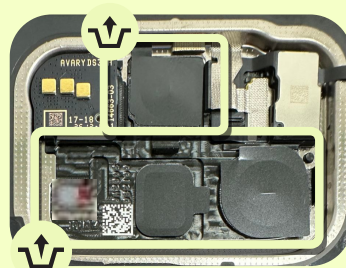
- Use **tweezers** to remove the **RCAM caps** from the new RCAM modules.
- Use **tweezers** to grab the **second layer of the BG liner** and two ID cowling blue liners carefully pull it away.

Part: G806-14457-00 (BG PSA)



Note

Remove RCAM lens and vent liner from a new BG.



Press the BG

- Align the **BG** vertically on the **enclosure**.
- Press around it with both hands.



Note

Press the top middle side first, then follow with the two long sides and the bottom side.



Press the BG

- Place the **universal supporting rubber #2** on the **universal holder #2**, and place the **universal holder limiting block #2** on top.
- Place the **fixture** in position **D2** on the **universal base**.
- Apply the **Pixel 10 Pro Fold BG press rubber** on top of the **universal holder #2**, as shown in **Fig 1**.
- Place the **universal press plate 12 mm** on the press rubber, as shown in **Fig 2**.
- Place it in the **universal press fixture** and press the handle down for **45 seconds**, as shown in **Fig 3**.



Use caution

Keep hands clear during operation.



Note

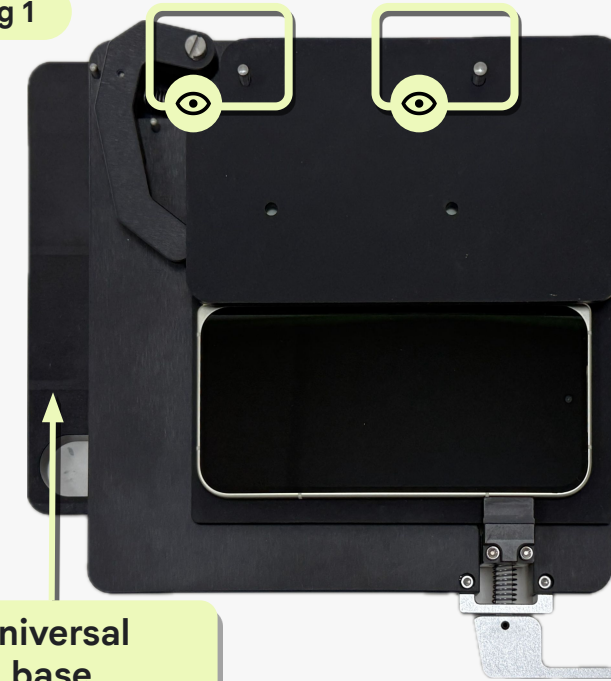
Make sure that all protective films are removed before you press.



Note

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

Fig 1



Universal base

Fig 2



Fig 3





Pixel 10 Pro Fold repair manual

Disassembly flip

Outer display

Outer front camera

Lower board

Flip battery

Upper board

Inner display sub



Disassembly instructions

OD (outer display) sub

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



Use caution

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

Apply protective film to broken glass before removal.

Review all safety precautions before you begin work.



Prerequisites

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



Tools

Pixel 10 Pro Fold main holder

Pixel 10 Pro Fold OD press rubber

Pixel universal base

Universal press plate 12 mm

Universal press fixture

Opening pick

Large suction cup

Torx plus 3IP screwdriver

Tweezers

Spudger

3M AP111 primer

Absorption bulb

IPA and cloth

Dust-free cotton swabs

 Required parts

Outer display

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

Reuse indications

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

Outer display

G949-01528-00



Screw

G250-08248-00



Screw*2

G250-08005-21



OD cowling

G730-09622-01



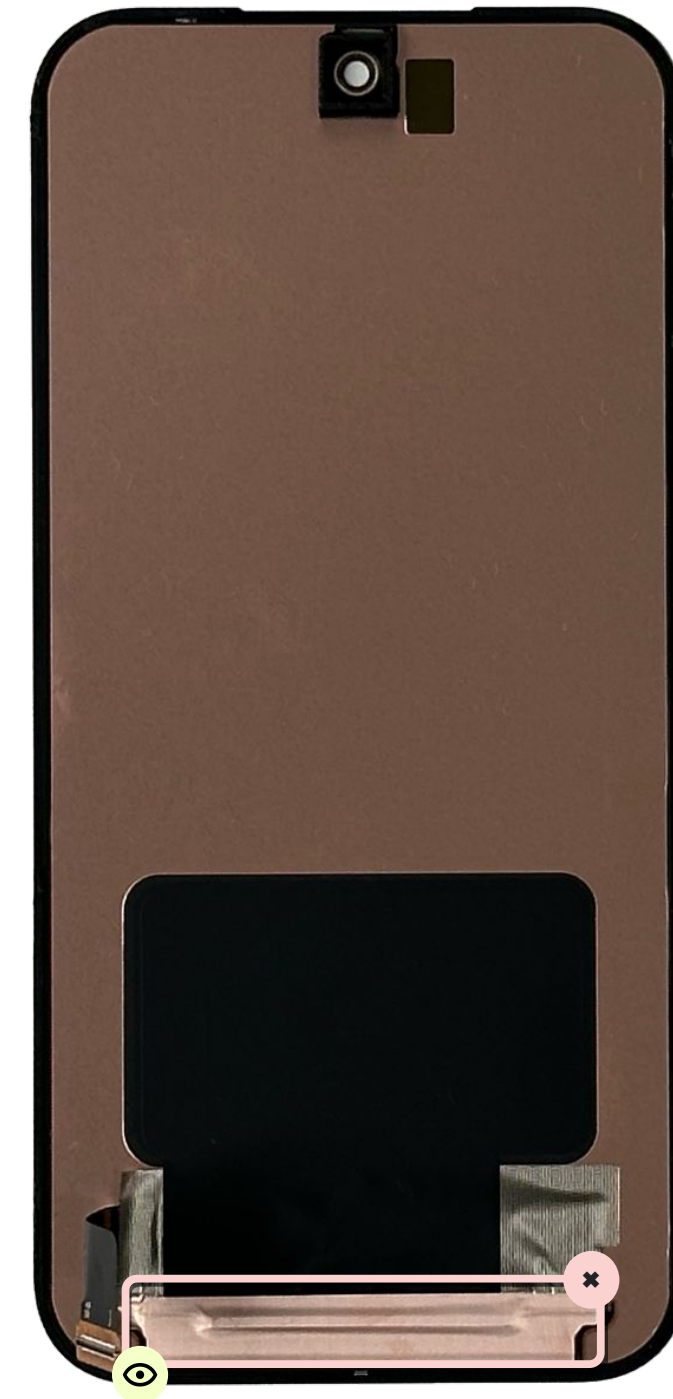
OD PSA

G806-14480-00



Locate the driver IC

- Before you remove the **outer display module**, be aware that there's a **driver IC** underneath.
- Avoid any damage to the **driver IC (COF area)** during the disassembly process.



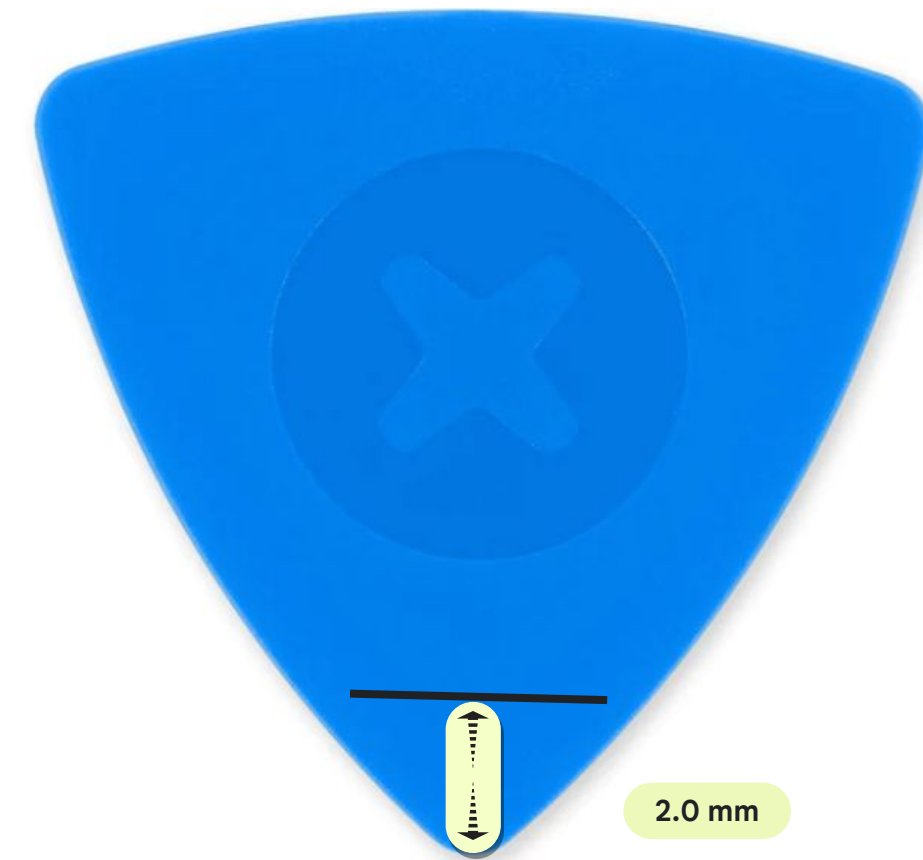
Mark the opening pick

- Use an opening pick to separate the OD from the enclosure. If you insert it too far, it could damage your device.
- Measure 2.0 mm from the tip and mark the opening pick with a permanent mark.



Use caution

Follow the steps to mark your pick and prevent damage.



Separate the OD

- Apply a suction cup to the OD, as close to FCAM side, as shown in **Fig 1**.
- Use one hand to firmly hold the device. With the other hand, strongly pull up the large suction cup to create a gap between the OD and the enclosure, as shown in **Fig 2**. Make sure that the device isn't open.
- Insert the opening pick into the gap, as shown in **Fig 3**.



Use caution

Don't insert your opening pick deeper than 2 mm when you separate adhesive, as you risk damage to the display.

Fig 1



FCAM side

Fig 2



Fig 3



No

Detach the OD

- Slide your **opening pick** clockwise.
- Open toward the **hinge** to separate the adhesive.
- Turn over the OD. Use the **suction cup** to hold it after the device is open.



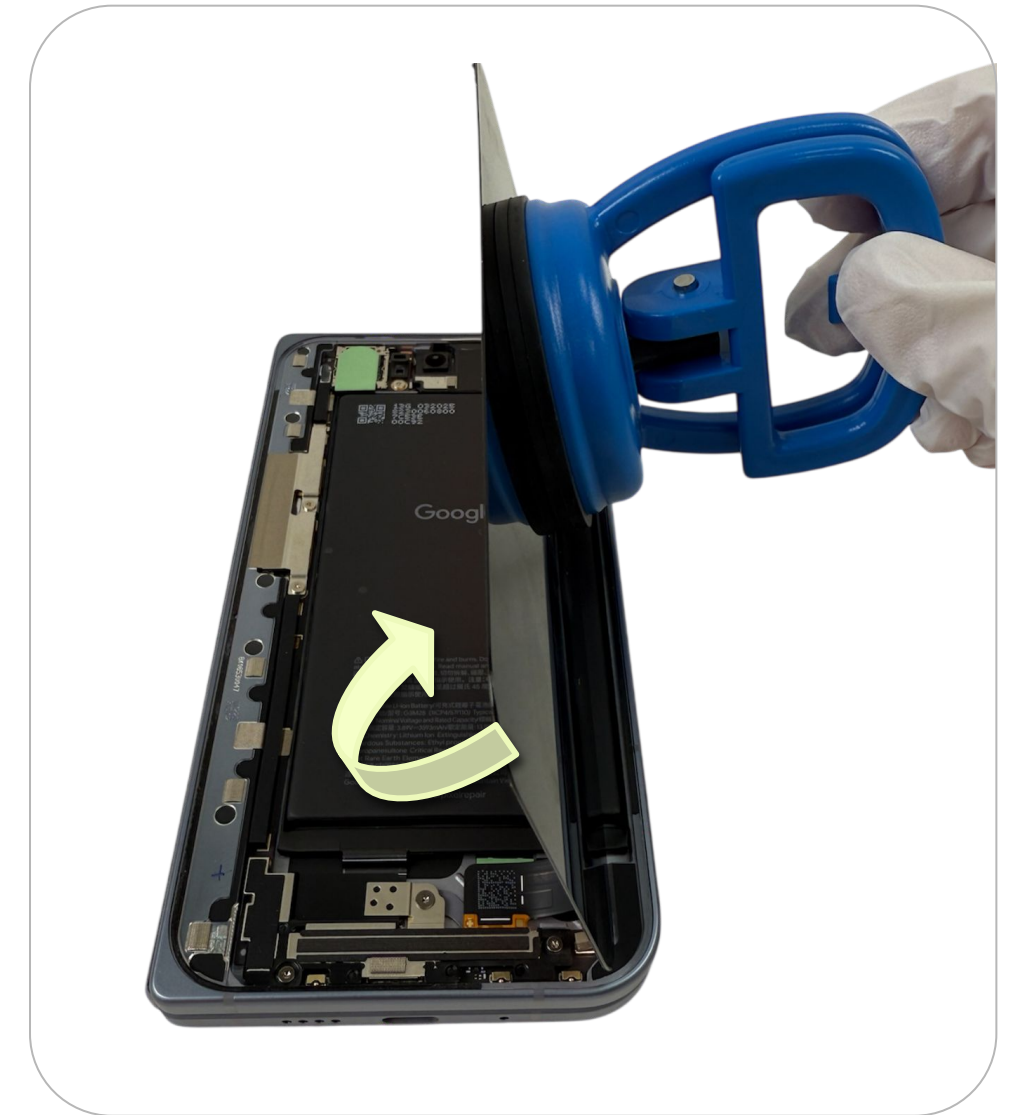
Disassembly sequence

1 (insert opening pick with 2.0 mm) → 2 → 3 → 4 → 5



Use caution

Don't fully remove the OD yet, as it's still connected to the device by the OD flex.



Remove the OD cowling

- Remove **three OD cowling screws** with a torx plus 3IP screwdriver, as shown in **Fig 1**.
- Remove the **OD cowling**.

Part: G250-08248-00 (screw)

Part: G250-08005-21 (screw*2)

Part: G730-09622-01 (OD cowling)



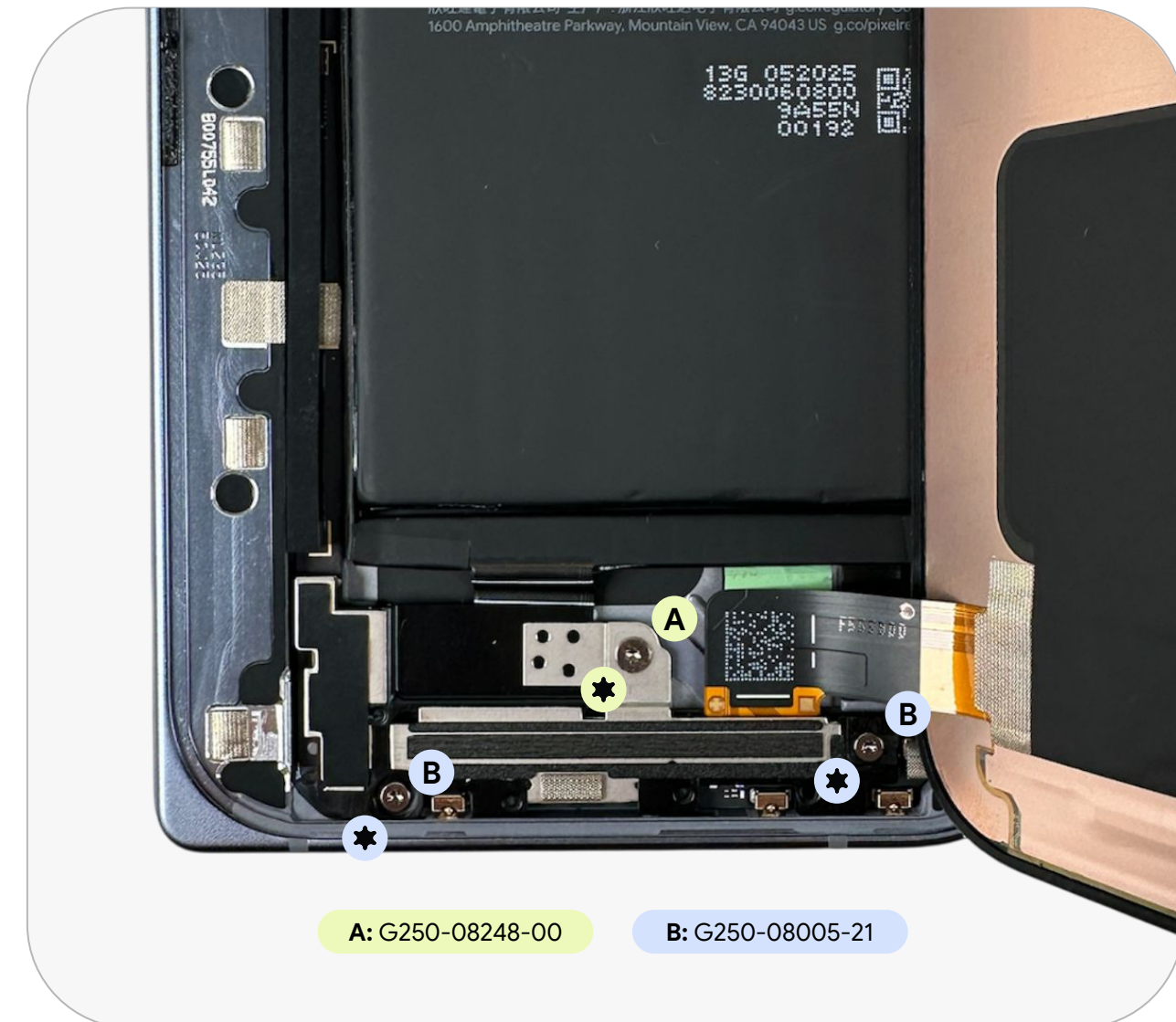
Note

Don't reuse the screws.



Use caution

Avoid use of sharp objects or tools to prevent damage to the **battery**.



Finished! Want assembly instructions? →

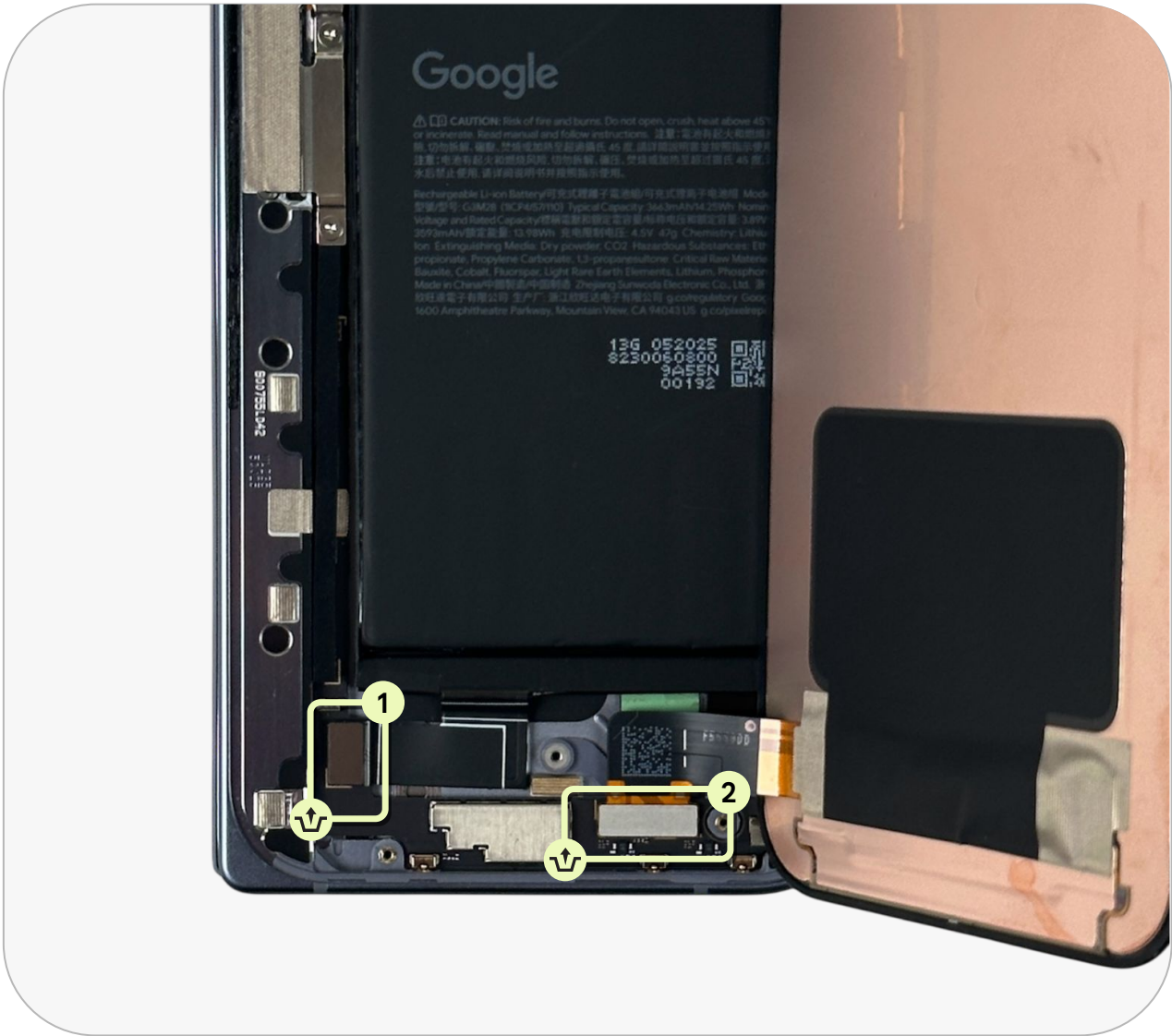
Disconnect the OD

- Disconnect the **flip battery** with a spudger.
- Loosen the **OD** connector with a spudger and then remove the **OD**.



Note

Use a spudger to avoid damage to the components.



Outer Display/

Lower Board

Upper Board

Outer Front Camera

Flip Battery

Inner Display Sub



Lower board

The lower board communicates with the components, such as the flip battery, lower bridge FPC, and the outer display.



Use caution

Review all safety precautions before you begin work.



Prerequisites

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

- **Outer display**



Tools

Torx plus 3IP screwdriver

Spudger

Feeler gauge 0.25t

Dust-free cotton swabs



Required parts

Reuse indications



Reusable without
cleaning



Reusable after
cleaning



Not reusable
after disassembly

Lower board

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

Lower board

G949-01534-00



Screw*2

G250-08002-10



Flip bridge cowling

G730-09662-00



Conductive tape

G806-14472-00



Bottom rubber

G806-15616-00



Conductive tape
cowling

G806-14461-00



Remove the screws and cowling

- Remove the two **flip bridge cowl**ing screws with a torx plus 3IP screwdriver.
- Remove the **flip bridge cowl**ing along with the **conductive tape** attached to it.

Part: G730-09662-00 (flip bridge cowl

Part: G250-08002-10 (screw*2)



Use caution

Avoid use of sharp objects or tools to prevent damage to the **battery**.



Note

Don't reuse the screws.



Disconnect the flip bridge and ANT 1

- Disconnect the **flip bridge bottom** and **top connectors** with a spudger.
- Disconnect the **ANT 1 connector** with a spudger.
- Apply **masking tape** to the flip bridge and ANT 1 connectors to avoid damage.



Use caution

Avoid use of sharp objects or tools to prevent damage to the **battery**.



Detach the rubber and conductive tape

Remove the **rubber** and the **conductive tape** below with a **spudger**.

Part: G806-15616-00 (bottom rubber)

Part: G806-14472-00 (conductive tape)



Use caution

Avoid use of sharp objects or tools to prevent damage to the **battery**.



Note

Don't reuse the parts.



[Finished! Want assembly instructions? →](#)

Remove the lower board

- Slightly lift the **lower board** with a spudger, as shown in **Fig 1**.
- Insert a 0.25 mm **feeler gauge** and slide upwards to cut the **PSA** attached to the lower board near the left edge of the enclosure, as shown in **Fig 2**.
- Gently remove the **lower board** with your bare hand.

Part: G949-01534-00 (lower board)



Use caution

Avoid use of sharp objects or tools to prevent damage to the **battery**.

There are **six adhesive areas** behind the lower board. Handle with care to prevent damage or distortion.

Fig 1



Fig 2



0.25 mm
feeler gauge

Outer Display

Lower Board

Upper Board

Outer Front Camera

Flip Battery

Inner Display Sub



Upper board

The upper board consists of the p sensor, light sensor, and communication components, such as the SIM card, upper bridge FPC, and the outer front camera.

Be aware that a replacement SIM tray *doesn't* have the IMEI number present.

Use caution

Review all safety precautions before you begin work.

Prerequisites

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

- **Outer display**

Tools

SIM card pin
Torx plus 3IP screwdriver
Feeler gauge 0.25t
Spudger
Tweezers



Required parts

Reuse indications



Reusable without
cleaning



Reusable after
cleaning



Not reusable
after disassembly

Upper board

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

Upper board

G949-01535-00



PL rubber

G806-14452-01



Screw

G250-08003-10



SIM tray

Multiple part numbers



Flip battery jacket

G806-14434-00



Upper rubber

G806-15617-00



Conductive tape

G806-14472-00



Remove the SIM tray and detach pull jacket

- Eject the **SIM tray** with an **ejector pin**.
- Detach the **flip battery pull jacket** from the **upper board** with a **spudger**.

Part: multiple part numbers (SIM tray)

Part: G806-14434-00 (pull jacket)



Remove the screw, rubber and tape

- Remove the **upper board** screw with a **torx plus 3IP screwdriver**.
- Remove the **rubber** and the **conductive tape** with a **spudger**.

Part: G250-08003-10 (screw)

Part: G806-15617-00 (upper rubber)

Part: G806-14472-00 (conductive tape)



Note

Don't reuse the parts.



Use caution

Avoid use of sharp objects or tools to prevent damage to the **battery**.



Remove the upper board

- Slightly lift the **upper board** with a spudger, as shown in **Fig 1**.
- Insert a 0.25 mm **feeler gauge** and slide downwards to cut the **PSA** attached to the upper board near the left edge of the enclosure, as shown in **Fig 2**.
- Gently remove the **upper board** with your bare hand.

Part: G949-01535-00 (upper board)



Use caution

Avoid use of sharp objects or tools to prevent damage to the **battery**.

There's one **adhesive area** behind the upper board. Handle with care to prevent damage or distortion.

Fig 1



Fig 2



[Finished! Want assembly instructions? →](#)

Inspect the P-sensor rubber

- Inspect the **P-sensor rubber**.
- If it's damaged, remove it. If it *isn't* damaged, leave it in place.

Part: G806-14452-01 (P-sensor rubber)



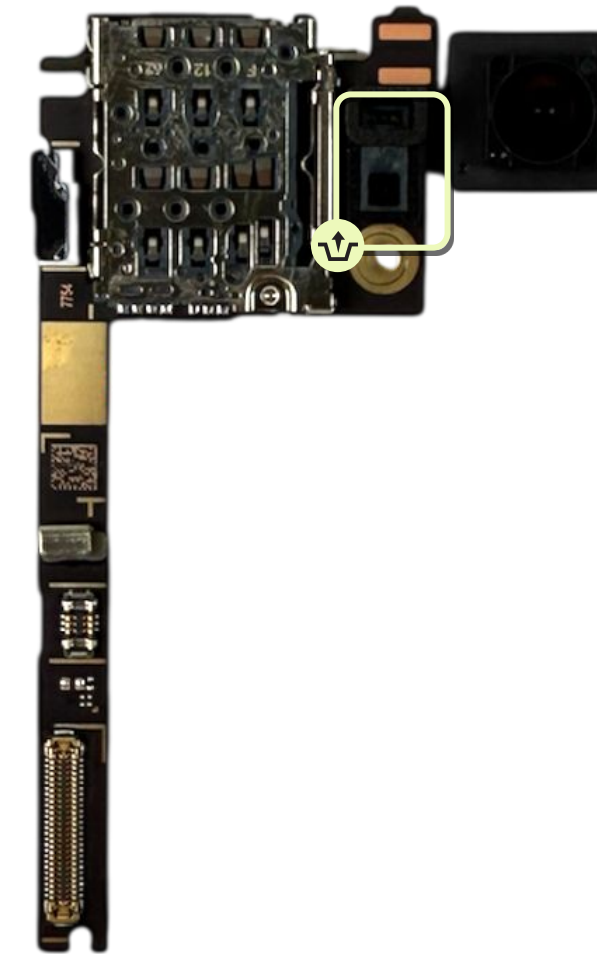
Note

Don't reuse the P-sensor rubber after removal.



Use caution

Skip this step if the P-sensor rubber is undamaged or intact.





Disassembly
instructions

Outer front camera

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



Use caution

Review all safety precautions before you begin work.



Prerequisites

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

- **Outer display**
- **Upper board**



Tools

Spudger



Required parts

Outer front camera

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

Reuse indications



Reusable without cleaning



Reusable after cleaning



Not reusable after disassembly

Outer FCAM

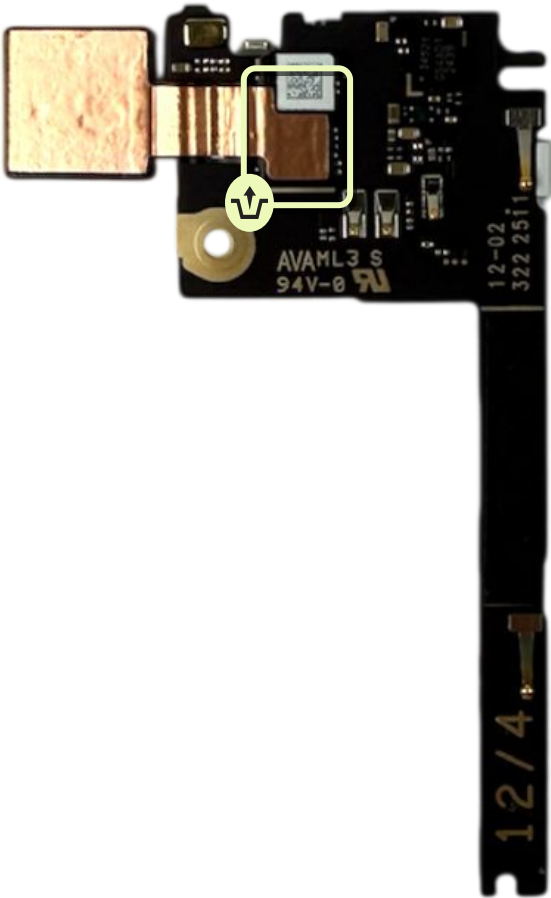
G949-01529-00



Finished! Want assembly instructions? →

Remove the outer front camera

Disconnect the **outer front camera** with a spudger.



Part: G949-01529-00 (outer front camera)



Note

Use a spudger to avoid damage to the components.



Disassembly instructions

Flip battery



Use caution

Use caution if you engage in repair.

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

Before you service the product, read the full set of **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 keep the battery in a fire safe container as soon as possible.
- Take care to prevent shorting of battery terminals or battery damage, as it could cause fire or overheating.
- Dispose of the battery according to local regulations.

Confirm before you proceed

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



Disassembly
instructions

Flip battery

We recommend that you use the universal disassembly fixture to hold the device when the battery removal is in process.

It's recommended to remove the battery with a pull jacket.



Use caution

Review all safety precautions before you begin work.



Prerequisites

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

- **Outer display**
- **Lower board**



Tools

Heat plate

Universal holder #2

Universal holder limiting block #2

Universal supporting rubber

Universal press plate 12 mm

Battery press rubber (flip side)

Universal press fixture

Pixel universal disassembly fixture V3 -base

Pixel 10 Pro Fold spare dece clip - universal dssy fixture V3

Adsorption-bulb

Tweezers

3M AP111 primer

IPA and cloth

Dust-free cotton swabs



Required parts

Flip battery

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

Reuse indications



Reusable without cleaning



Reusable after cleaning



Not reusable after disassembly

Battery flip

Multiple part numbers



Flip battery jacket

G806-14434-00



Flip battery cell difference

	Battery cell source (ATL)	Battery cell source (LWN)
Flip battery GPN	G949-01537-00	G949-01538-00
Model name and part no. printing on the battery.	G3M28/ 8230060800	G3M28/ 8230060900

Note

1. Always replace the base and flip batteries at the same time with the correct model name which is the same previous foldable phone projects.
2. Make sure that the new base and flip battery are from the same cell source.

Front

Back

Front

Back

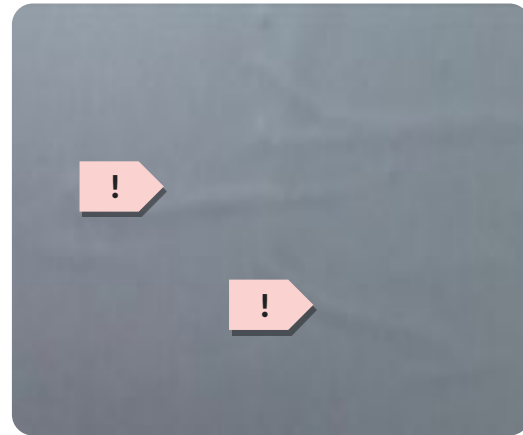
Use
caution



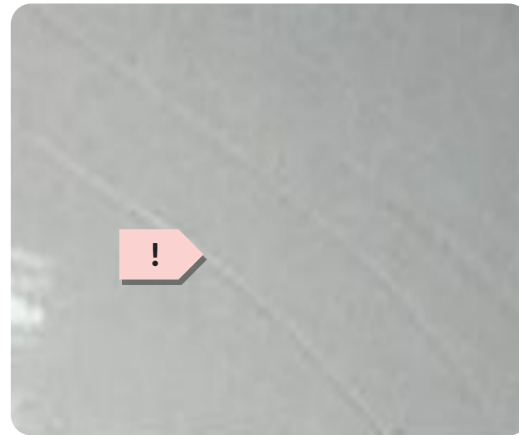
Examples of unacceptable battery conditions that aren't suitable for repair



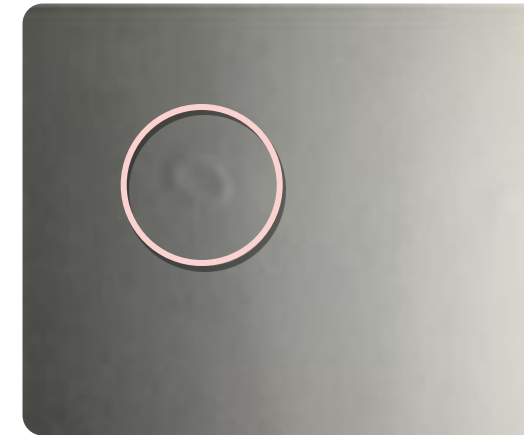
Pouch damage



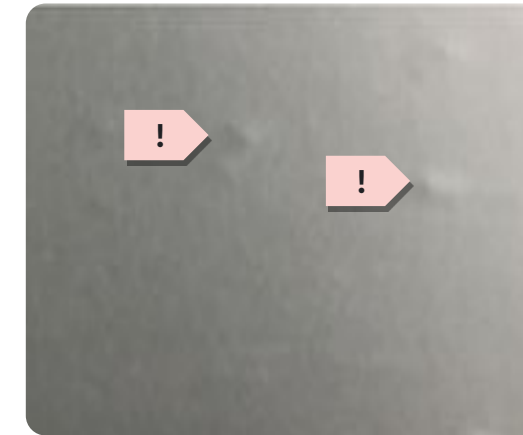
Line protrusion



Scratch



Contamination mark



Dot protrusion



Dent



Bubbling



Imprinted line



Swelling or electrolyte leakage

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

Release the pull tab and adjust pull jacket

- Slightly pull the **pull tab** downward with tweezers and wrap it around the tweezers. Repeat to release it from under the **flip battery**, as shown in **Fig 1**.
- Partially the pull jacket is folded under the green ends. Unfold and pack it to cover partial of the green tab by **masking tape (size: 10 mm * 20 mm)** to strengthen handling, as shown in **Fig 2**.
- Pull up the upper side of the jacket to lift up the battery a little bit and then move the jacket to the left of the battery. Stop at the yellow line, as shown in **Fig 2**.

Part: G806-17439-01 (bond PSA)

Part: G806-14434-00 (pull jacket)



Use caution

Avoid use of sharp objects or tools to prevent damage to the **battery**.

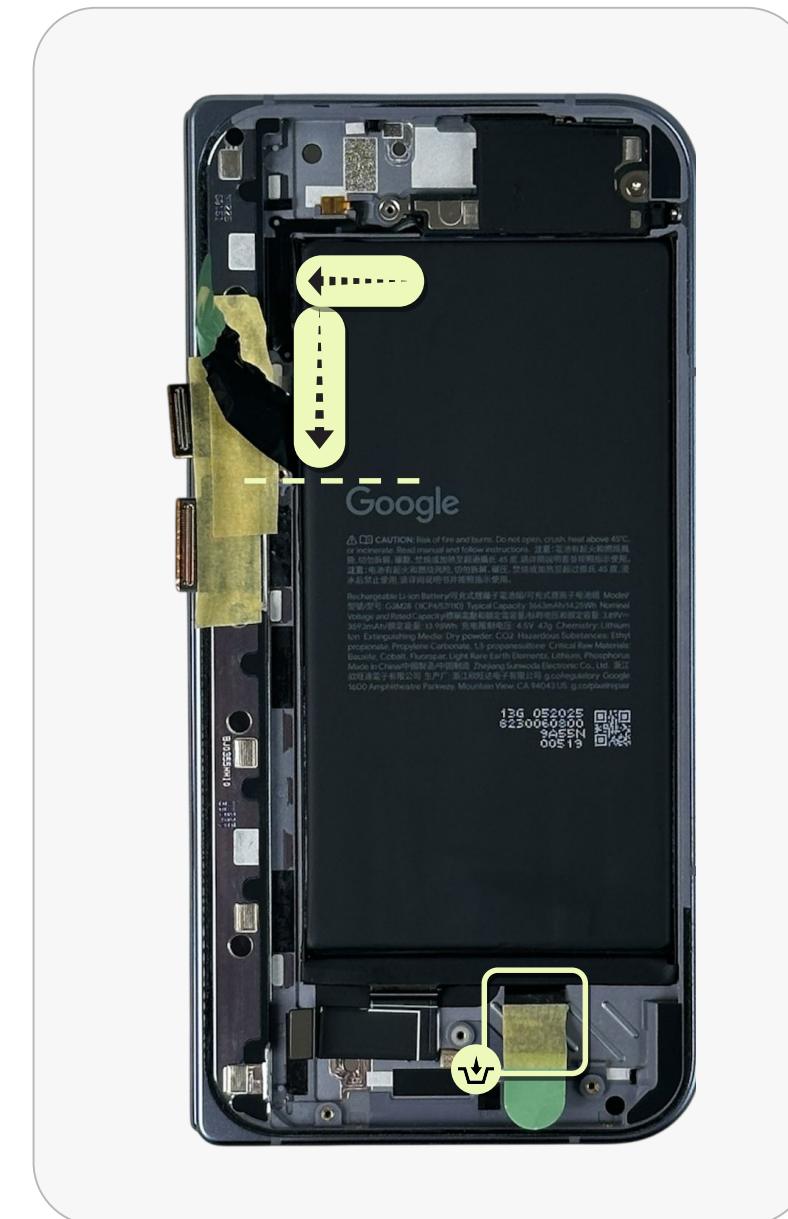


Note

Add tape to the flip bridge cowl area to protect the pull jacket from sharp objects, ensuring it moves freely.



Fig 1



Soften the adhesive

With the device unfolded, place the device **ID** face down on the heat plate set to **158°F (70°C)** for **10 minutes** to soften the **flip battery** adhesive.



Use caution

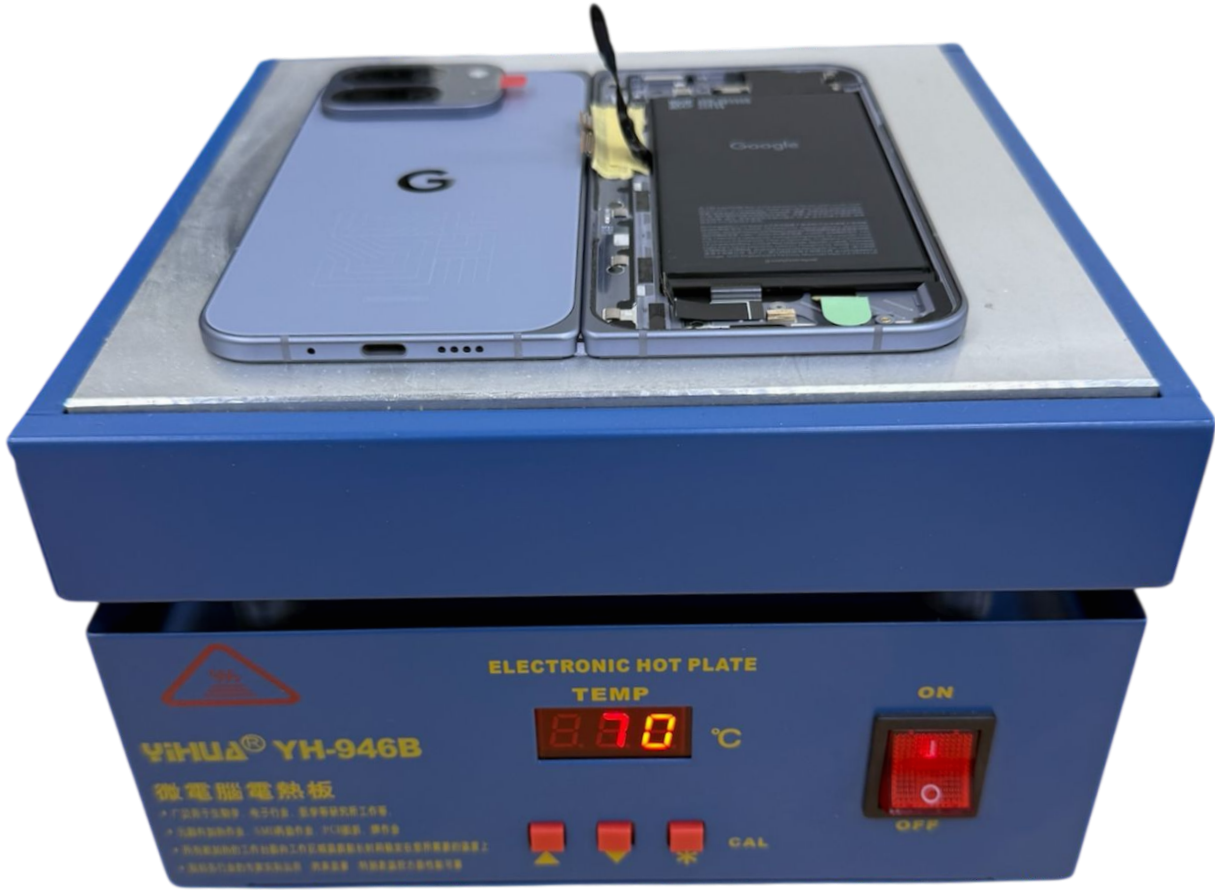
The heat plate is a hot surface. Use caution as it could cause burns.



Use caution

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

Review all [safety precautions](#) before you begin work.

[Outer Display](#)[Lower Board](#)[Upper Board](#)[Outer Front Camera](#)[Flip Battery](#)[Inner Display Sub](#)

Secure the device

- Secure the fixture on the working surface.
- Fold the device, and secure it on the fixture.



Use caution

The heat plate is a hot surface, so caution to avoid burns.



Adjust the pull jacket

Pull the **pull jacket** back and forth to move the left end toward the bottom of the **flip battery**.



Use caution

Avoid use of sharp objects or tools to prevent damage to the **battery**.



Note

The back-and-forth motion cuts through the adhesive under the flip battery.

It might require some strength. Wear finger cots to increase friction.



Finished! Want assembly instructions? →

Remove the battery

- Insert a 0.05 mm liner in the lower right corner, as shown in **Fig 1**, then move the **bottom pull jacket** behind the liner. Reheat the device 3 minutes, if it feels cooled down.
- Pull the **pull jacket** back and forth upward to cut through the top-right adhesive under the **flip battery**.
- Gently remove the **flip battery** and store it safely.

Part: multiple part numbers (flip battery)



Use caution

Lift the battery as soon as the device leaves the heat plate before the adhesive cures.

keep small screws and sharp objects away from the battery.

Don't reuse the part.



Note

Wear finger cots to increase friction.

If the pull jacket breaks, **insert a new one (G806-14434-00)** through the opening at the lower side of the battery and reheat the device 3 minutes, if it feels cooled down.

Fig 1

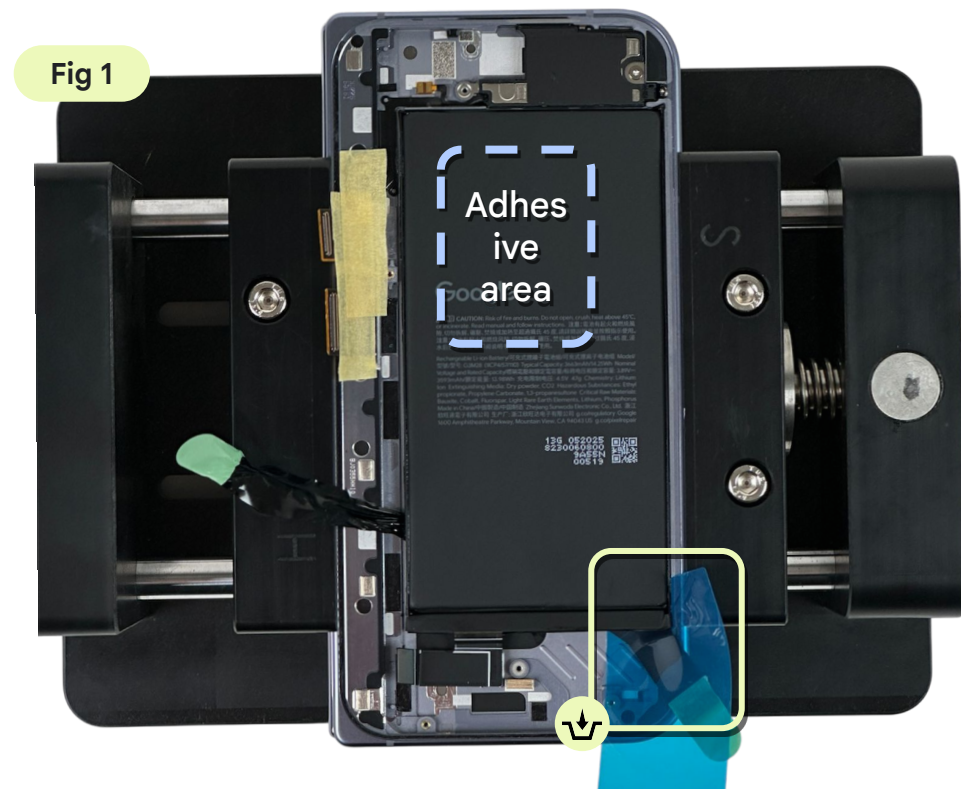
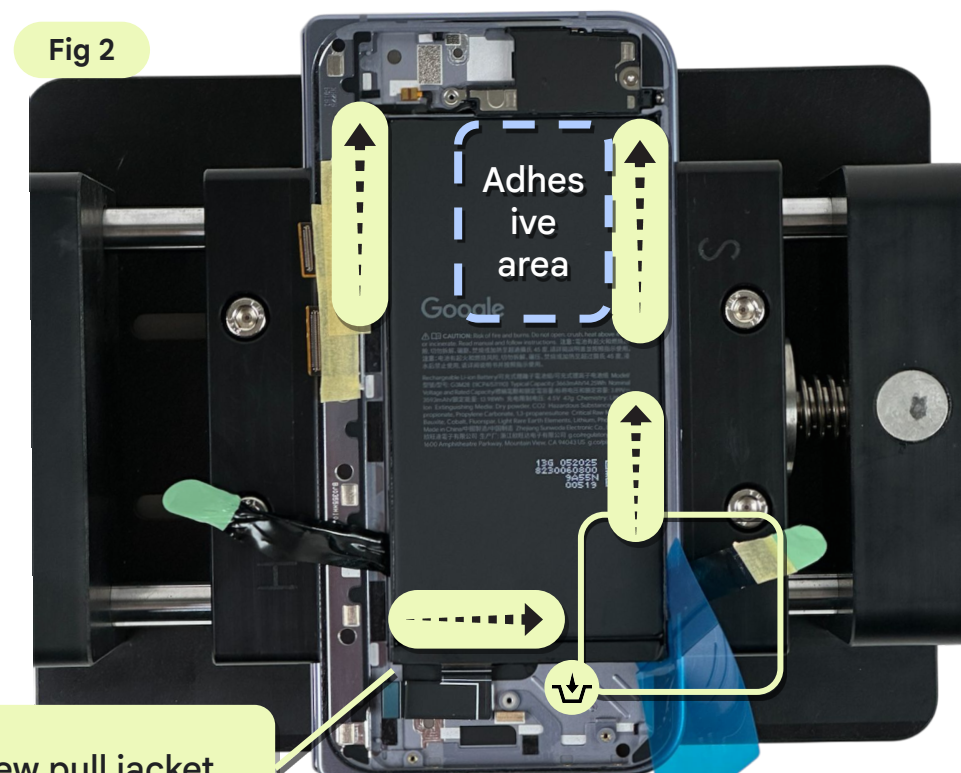


Fig 2



Entry point for new pull jacket.



Disassembly
instructions

ID (inner display) sub

Flip side

If you reuse the inner display sub (flip side), ensure that any 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:

- **Outer display**
- **Lower board**
- **Upper board**
- **Flip battery**



Tools

Torx plus 3IP screwdriver
Spudger
Tweezers
IPA and cloth
Dust-free cotton swabs



Required parts

Reuse indications



Reusable without
cleaning



Reusable after
cleaning



Not reusable
after disassembly

Inner display sub (flip side)

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

Top speaker with ANT 4 FPC

(included in inner display sub)

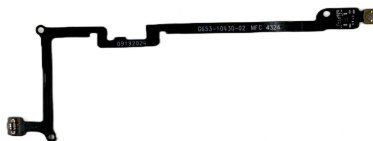
G949-01544-00



ANT 1 FPC

(included in inner display sub)

G949-01545-00



Screw

G250-08003-10



Screw

G250-06986-00



ANT 1 bracket

G730-09634-01



Pad PSA

G806-14307-01



TSPK CPSA

G806-14305-00



ANT 1 PSA 1

G806-13625-01



ANT 1 PSA 2

G806-13626-01



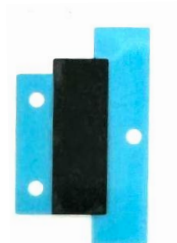
ANT 1 PSA 3

G806-13627-01



ANT 1 CPSA

G806-13628-01





Required parts

Reuse indications



Reusable without
cleaning



Reusable after
cleaning



Not reusable
after disassembly

Inner display sub (flip side)

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

Inner display sub

Multiple part numbers



Flip battery PSA

G806-15380-01



Flip battery bond PSA

G806-17439-01



Lower PCB PSA-1*2

G806-13629-01



Lower PCB PSA-2*2

G806-13630-01



Lower PCB PSA-3

G806-13631-01



Lower PCB PSA-6

G806-14387-01



Upper PCB PSA

G806-14959-00



Remove the top speaker screw

Remove the **top speaker screw** with a torx plus 3IP screwdriver.

Part: G250-08003-10 (screw)



Note

Don't reuse the screw.



Remove the top speaker

- Insert an ESD spudger under the **shielding bracket** to pry up the **top speaker**, as shown in **Fig 1**.
- Lift the **top speaker** to the left, detach the **contact pad**, and remove the module, as shown in **Fig 2**.

Part: G949-01544-00 (top speaker with ANT 4 FPC)

Fig 1

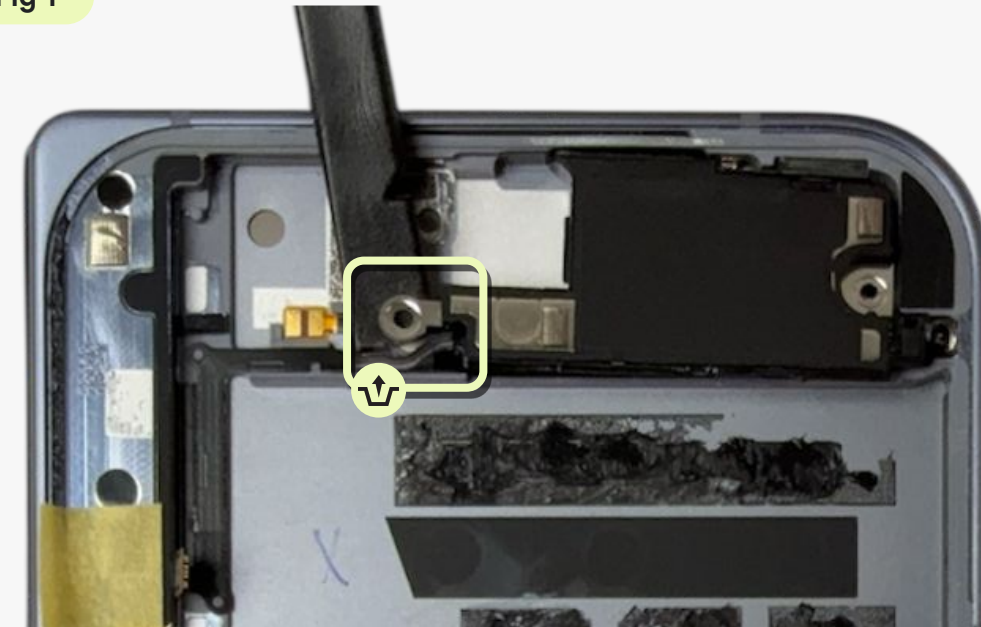
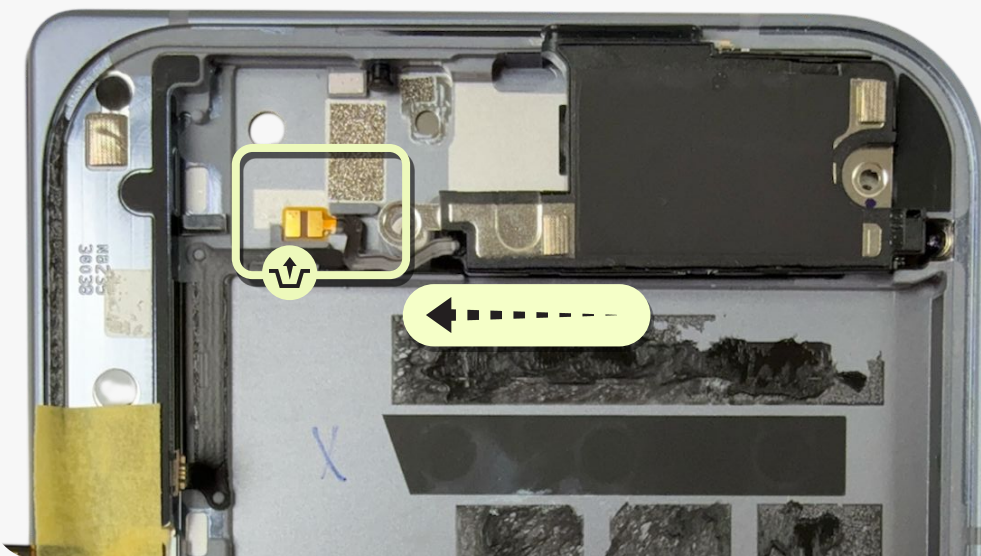


Fig 2



Remove the ANT 1 FPC screw

Remove the **ANT 1 FPC screw** on the wall with a torx plus 3IP screwdriver.

Part: G250-06986-00 (screw)



Note

Don't reuse the screw.



[Finished! Want assembly instructions? →](#)

Remove the ANT 1 FPC

Unstick the **ANT 1 FPC** from the connector and remove it completely.

Part: G949-01545-00 (ANT 1 FPC)



Note

Don't reuse the part.





Pixel 10 Pro Fold repair manual

Assembly flip

Inner display sub

Lower board

Outer front camera

Flip battery

Upper board

Outer display



Assembly
instructions

ID (inner display) sub

Flip side

Prepare for ANT 1 FPC attachment

- Use a **spudger** to remove residual glue from the enclosure.
- If there's still residue, clean the surface with a dust-free cloth and **IPA**.
- Apply the **ANT 1 CPSA**, folding it along the enclosure frame, as shown in **Fig 1**.
- Attach the **ANT 1 PSA 1**, **ANT 1 PSA 2**, and **ANT 1 PSA 3**, as shown in **Fig 2**.
- Remove the liners.

Part: G806-13628-01 (ANT 1 CPSA)

Part: G806-13625-01 (ANT 1 PSA 1)

Part: G806-13626-01 (ANT 1 PSA 2)

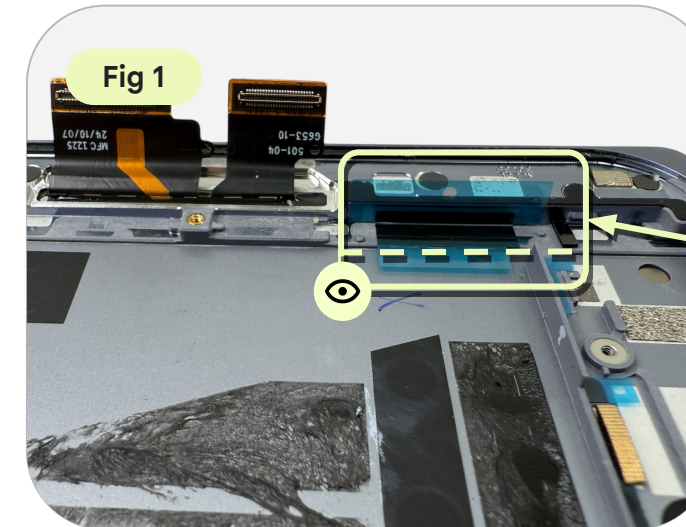
Part: G806-13627-01 (ANT 1 PSA 3)



Note

The inner display sub includes the ANT 1 FPC.

Perform this step only if the ANT 1 FPC is damaged.



A: G806-13628-01

B: G806-13627-01

C: G806-13626-01

D: G806-13625-01

Install the ANT 1 FPC

- Attach the **ANT 1 FPC** to the **inner display sub**, follow the sequence to assemble. Fold the middle part along the retaining wall to the bottom.
- Press down for **5** seconds.

Part: G949-01545-00 (ANT1 FPC)

Note

The inner display sub includes the ANT 1 FPC.

Perform this step only if the ANT 1 FPC is damaged.

Make sure that the flex fits around the three positioning posts, as shown in **Fig 1** and **Fig 2**.



Attach the ANT 1 FPC

- Tear off the liner and apply the ANT 1 bracket to the positioning hole.
- Tighten the **screw** with a torx plus 3IP screwdriver.
- Tighten the screw a second time for a secure fit.

Part: G730-09634-01 (ANT 1 bracket)

Part: G250-06986-00 (screw)



Note

The inner display sub includes the ANT 1 FPC. Perform this step only if the ANT 1 FPC is damaged.



Reuse the top speaker

- Remove residual adhesive with an ESD spudger, as shown in **Fig 1**.
- Clean the surface with a dust-free cloth dampened with IPA.
- Apply the **top speaker CPSA** and **contact pad PSA** according to the outline, as shown in **Fig 2**.
- Tear off the liners.

Part: G806-14305-00 (TSPK CPSA)

Part: G806-14307-01 (pad PSA)



Note

The inner display sub includes the top speaker with ANT 4 FPC.

Perform this step only if the top speaker is damaged.

Fig 1

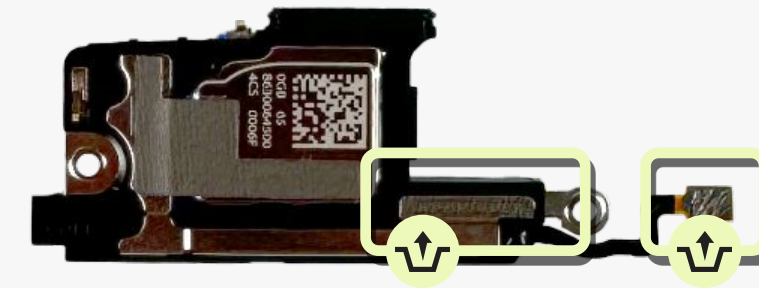
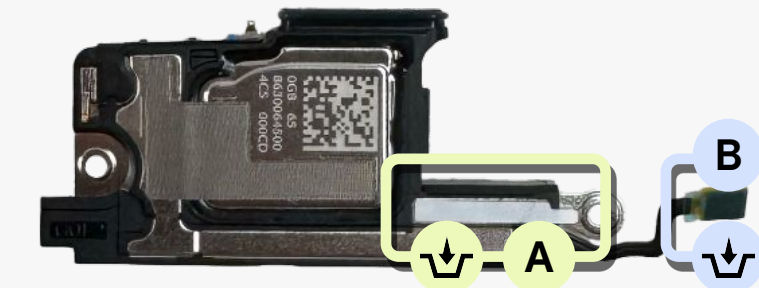


Fig 2



A:G806-14305-00

B: G806-14307-01

Attach the top speaker

- Install the **top speaker** to the **enclosure** and press it to make sure that it fits completely, as shown in **Fig 1**.
- Fix the pad according to the designated position, as shown in **Fig 2**. Tighten the **screw** with a torx plus 3IP screwdriver. Tighten the screw a second time for a secure fit.
- Tear off the blue liner if you use the new **top speaker**.

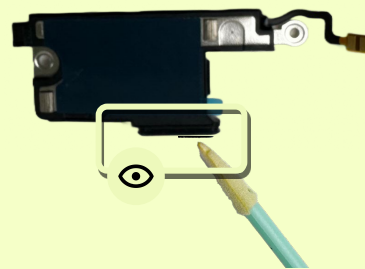
Part: G949-01544-00 (top speaker with ANT 4 FPC)

Part: G250-08003-10 (screw)



Note

Clean the rubber surface with dust-free cotton swabs before the installation.



Note

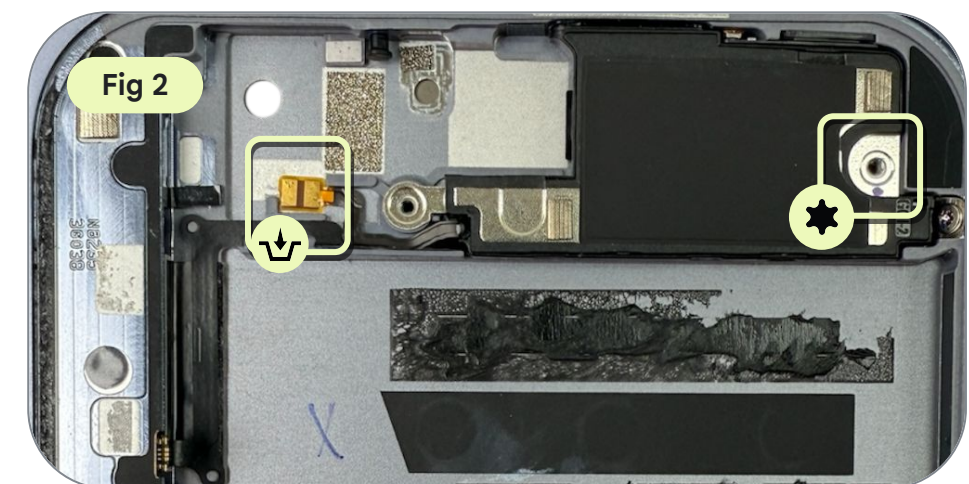
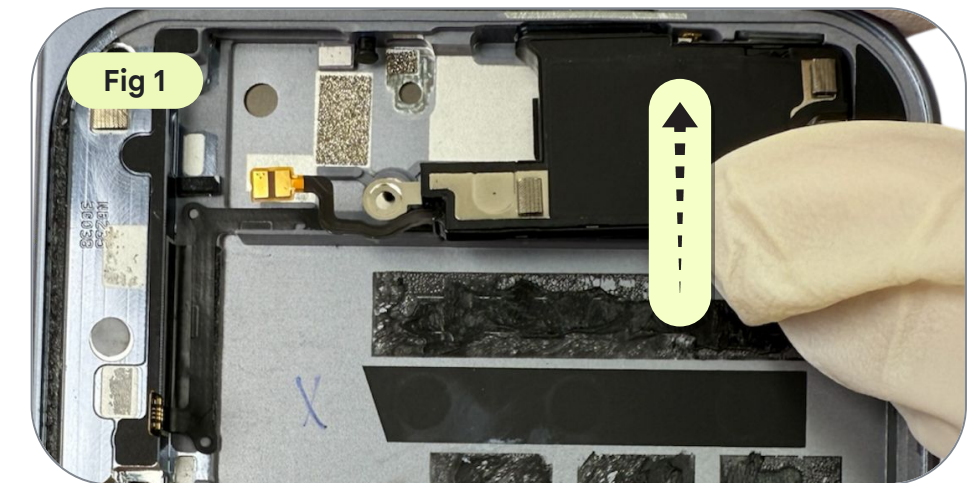
Press the ANT 4 FPC before the Top speaker assembly.

lift up

No



OK



Replace the board PSA

Replace the **six lower board PSAs** and **one upper board PSA**.

Part: G806-13629-01 (lower PCB PSA-1) *2

Part: G806-13630-01 (lower PCB PSA-2)*2

Part: G806-13631-01 (lower PCB PSA-3)

Part: G806-14387-01 (lower PCB PSA-6)

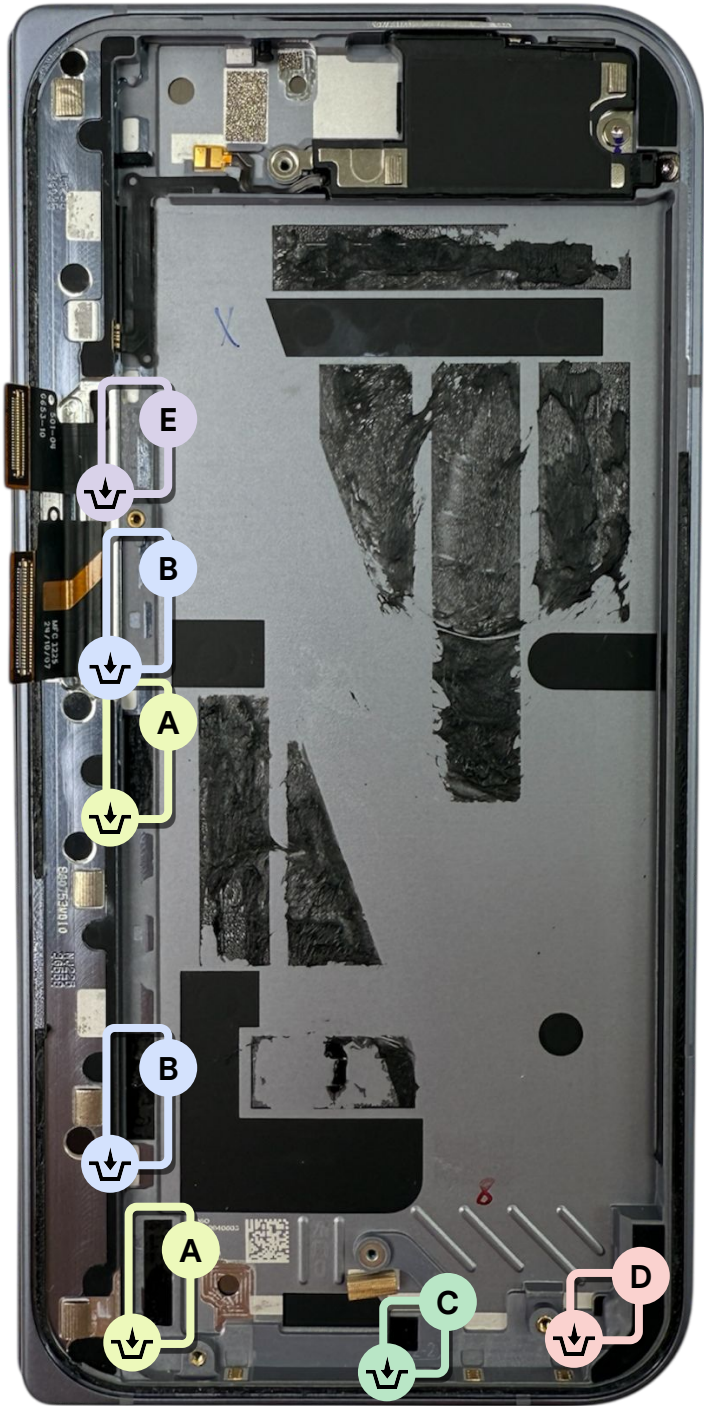
Part: G806-14959-00 (upper PCB PSA)



Note

The inner display sub includes the PSAs. Perform this step only if the OD sub is disassembled.

Don't remove the release liner just yet.



A: G806-13630-01

B: G806-13629-01

C: G806-13631-01

D: G806-14387-01

E: G806-14959-00

Reuse the ID sub or use new ID sub

- Use a **spudger** to remove remaining adhesive from the **enclosure** and **flip battery** area.
- Remove large chunks with fingers or **tweezers**. Clean with a **dust-free cloth** and **IPA**.
- Remove **masking tapes**, **liners** (no. 1 to 4) and the **wrap** on the **hinge** from the **flip enclosure** for the new ID sub.



Use caution

Be careful to avoid damage to the foam on the enclosure side during deglue the residual glue.



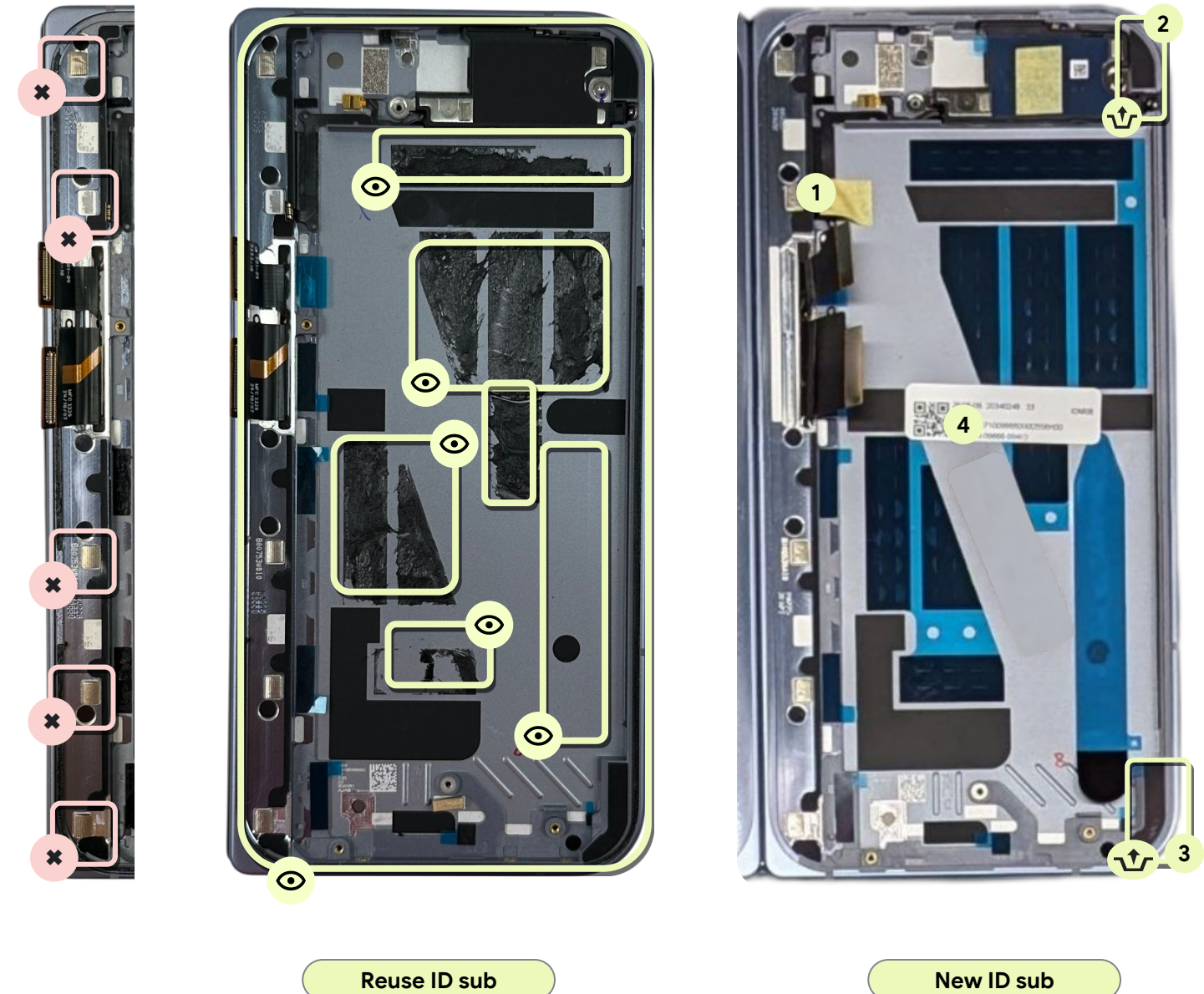
Note

The inner display subassembly includes the flip battery PSA. Perform this step only when need to reusing the inner display subassembly.



Note

The yellow highlight is where the residual adhesive exists.



Place flip battery PSA

- Paste the **flip battery PSA** along the upper-right corner.
- Paste the pull tab along the retaining wall in the lower right, and make sure that the black dot is in the center.
- Run a spudger over the PSA to strengthen adherence.

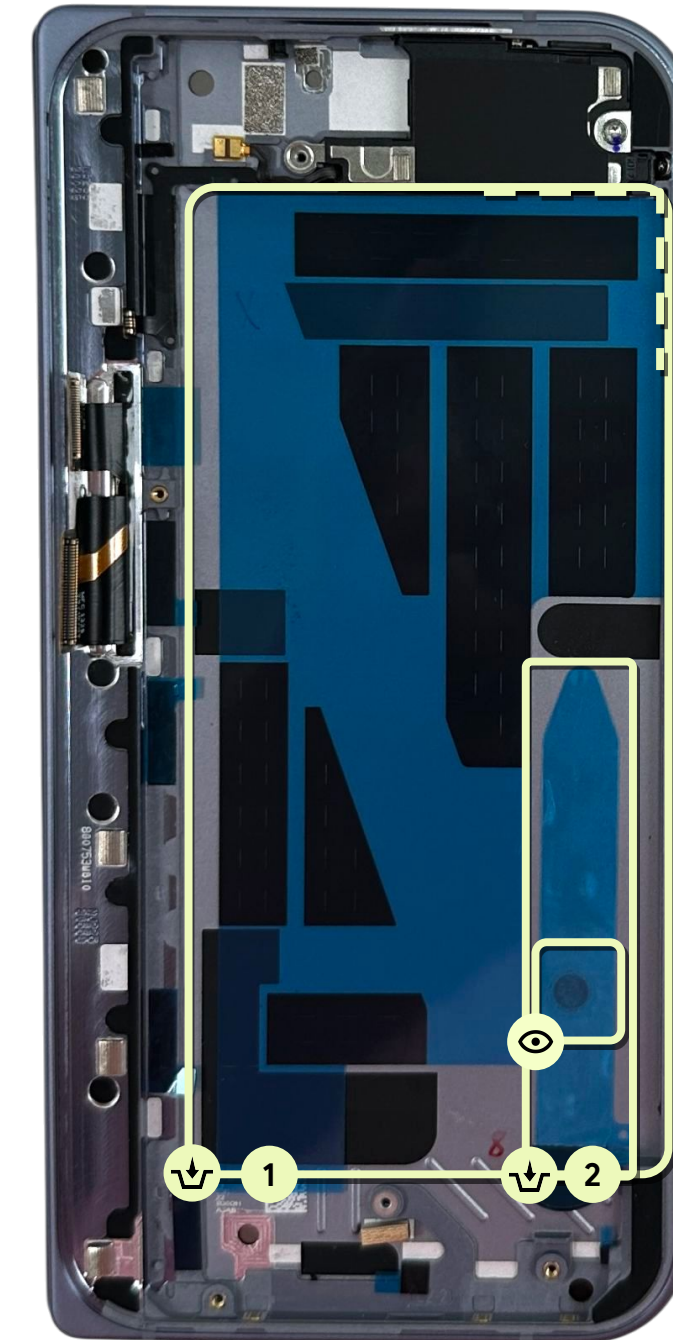
Part: G806-15380-01 (flip battery PSA)

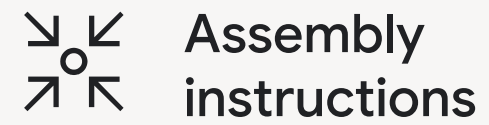
Part: G806-17439-01 (flip battery bond PSA)



Note

Don't remove the release liner just yet.





Outer front camera

Attach the outer front camera

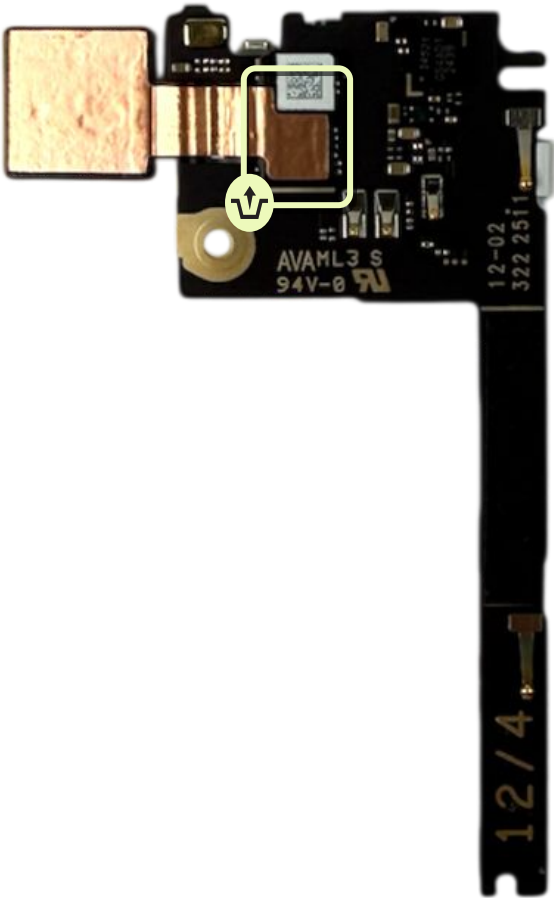
Latch the outer FCAM connector to the **upper board**.

Part: G949-01529-00 (outer front camera)



Note

Make sure that the connector is fully attached to the **upper board**.





Assembly
instructions

Upper board

Place the upper board

- Tear off the blue liner, as shown in **Fig 1**.
- Push the **upper board** upward at an angle to install it onto the enclosure, as shown in **Fig 2**.

Part: G949-01535-00 (upper board)



Note

Install the upper board under the hook. Refer to the relative position.

Fig 1

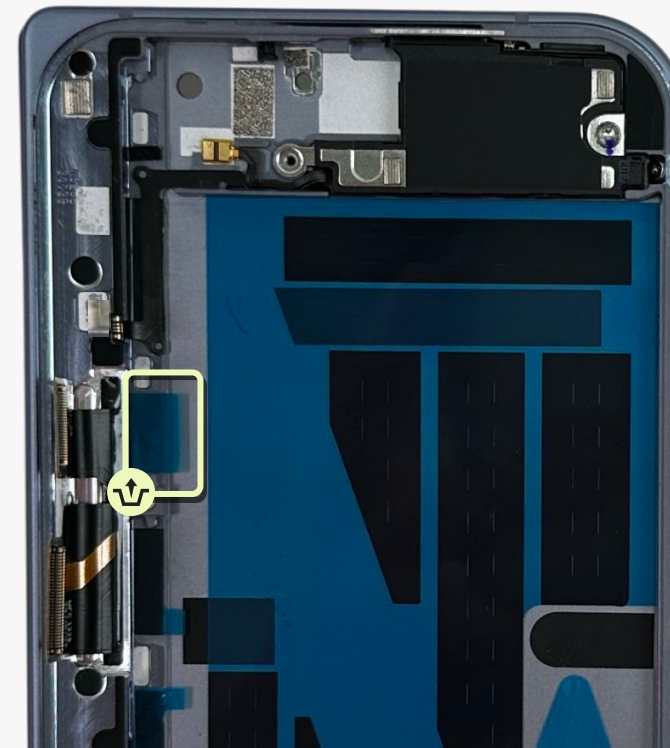


Fig 2



Install the SIM tray and upper board

- Insert the SIM tray into the slot.
- Fasten one upper board screw with a **torx plus 3IP screwdriver**, tightening twice.

Part: multiple part numbers (SIM tray)

Part: G250-08003-10 (screw)

Note

Wear a glove when handling the SIM tray; on the contrary, *don't* wear gloves when handling the upper board.

Note

Clean the rubber surface with dust-free cotton swabs before installation.



Apply the P-sensor rubber

Apply the P-sensor rubber to the upper board and check for misalignment.

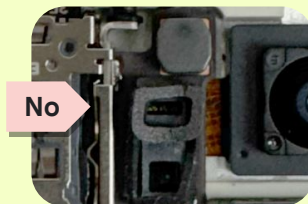
Part: G806-14452-01 (P-sensor rubber)



Note

Skip this step if the rubber is intact.

Make sure that the rubber is properly aligned.





Assembly
instructions

Lower board

Place the lower board

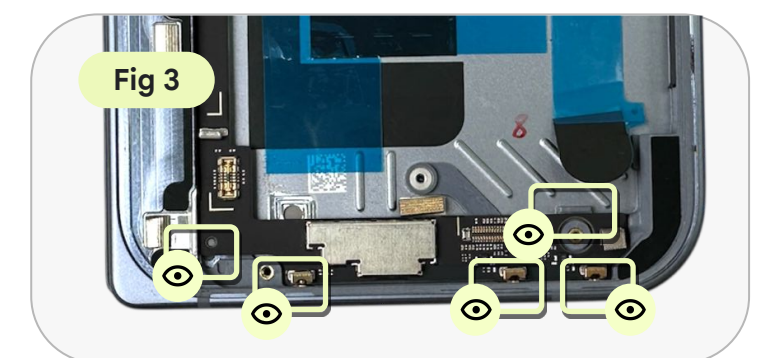
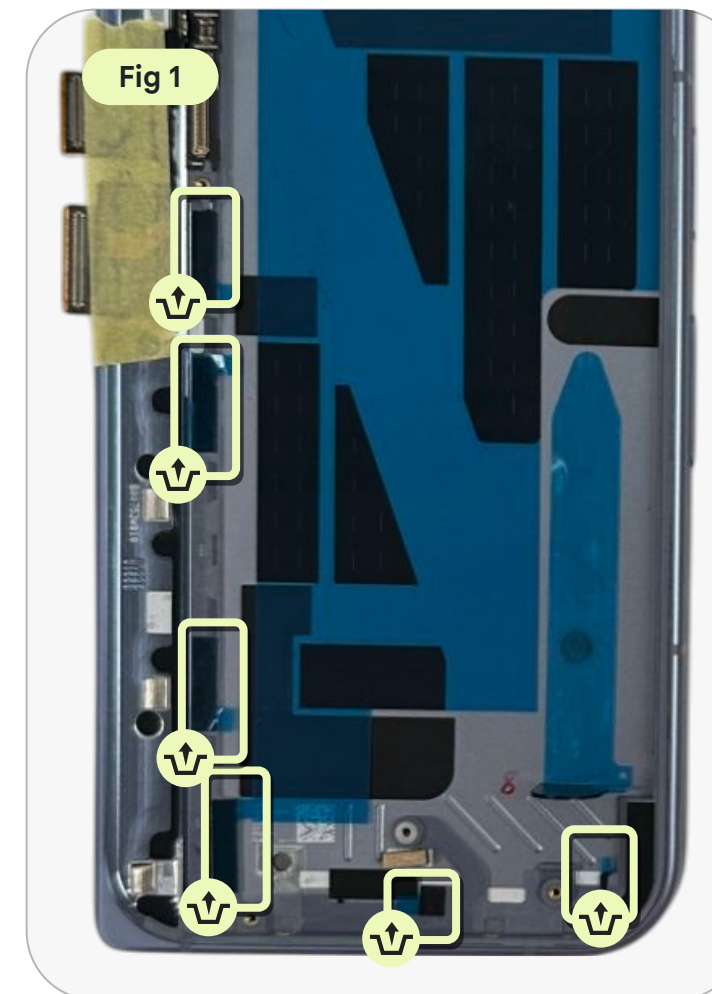
- Remove the liners from the **six lower board PSAs**, as shown in **Fig 1**.
- Push the **lower board** downward at an angle to install it onto the enclosure, as shown in **Fig 2**.
- Make sure that the lower board sits against the alignment pins and the retaining wall, as shown in **Fig 3**.

Part: G949-01534-00 (lower board)



Note

Remove remaining adhesive from the lower board.



Apply the conductive tapes

Attach the **conductive tapes** to the indicated areas.

Part: G806-14472-00 (conductive tape)*2



Connect upper, lower and ANT 1 boards

Snap the **ANT 1**, **flip top** and **bottom bridge FPC** connectors.



Note

Check that three connectors are fully engage to the **lower board** and the **upper board**.



Reuse the flip bridge cowling

- Tear off the conductive tape. Use a **spudger** to remove residual adhesive from the **cowling**.
- If residue remains, clean the surface with a **dust-free cloth** and **IPA**.
- Apply a new **conductive tape** to the designated position, as shown in **Fig 2**.

Part: G730-09662-00 (flip bridge cowling)

Part: G806-14461-00 (conductive tape)



Note

The flip bridge cowling comes with the conductive tape. Perform this step only when you reuse the part.



Fig 1

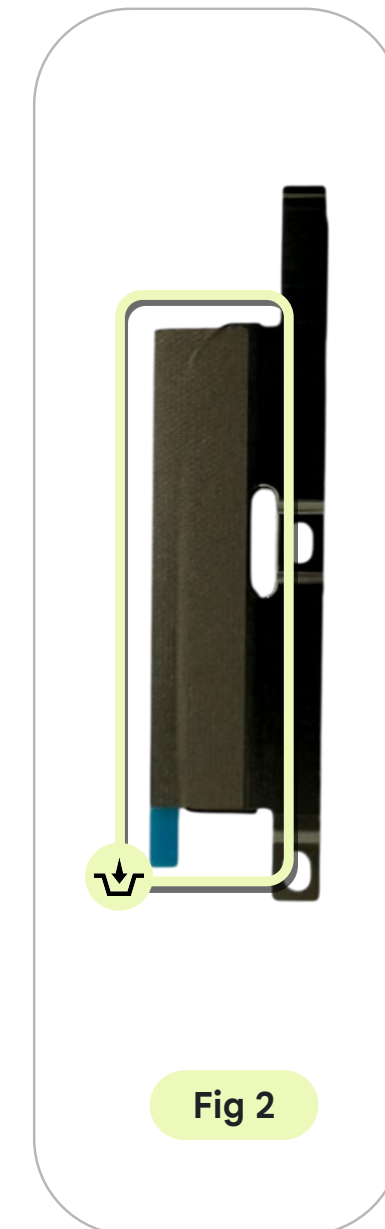


Fig 2

Install the flip bridge cowling and rubbers

- Insert the bridge of the **flip bridge cowling** into the enclosure groove, as shown in **Fig 1**.
- Fasten the two **flip bridge cowling screws** with a **torx plus 3IP screwdriver**, as shown in **Fig 2**.
- Tear off the blue liner of conductive tape and paste on the enclosure.
- Attach the **two rubber strips** onto the **upper and lower boards**, as shown in **Fig 3**.

Part: G730-09662-00 (flip bridge cowling)

Part: G250-08002-10 (screw*2)

Part: G806-14461-00 (conductive tape)

Part: G806-15617-00 (upper rubber)

Part: G806-15616-00 (bottom rubber)

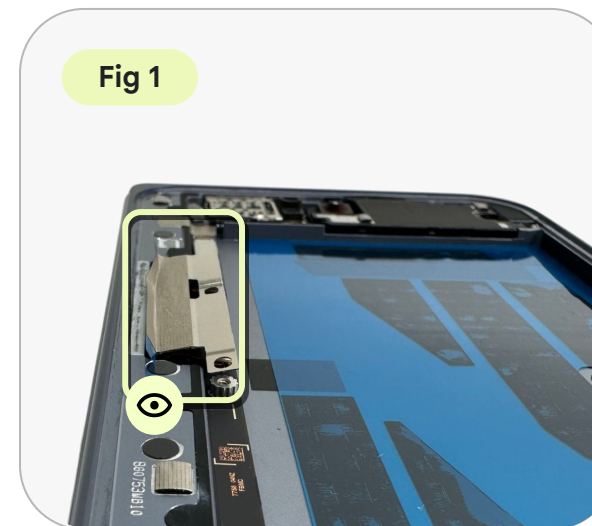


Fig 1

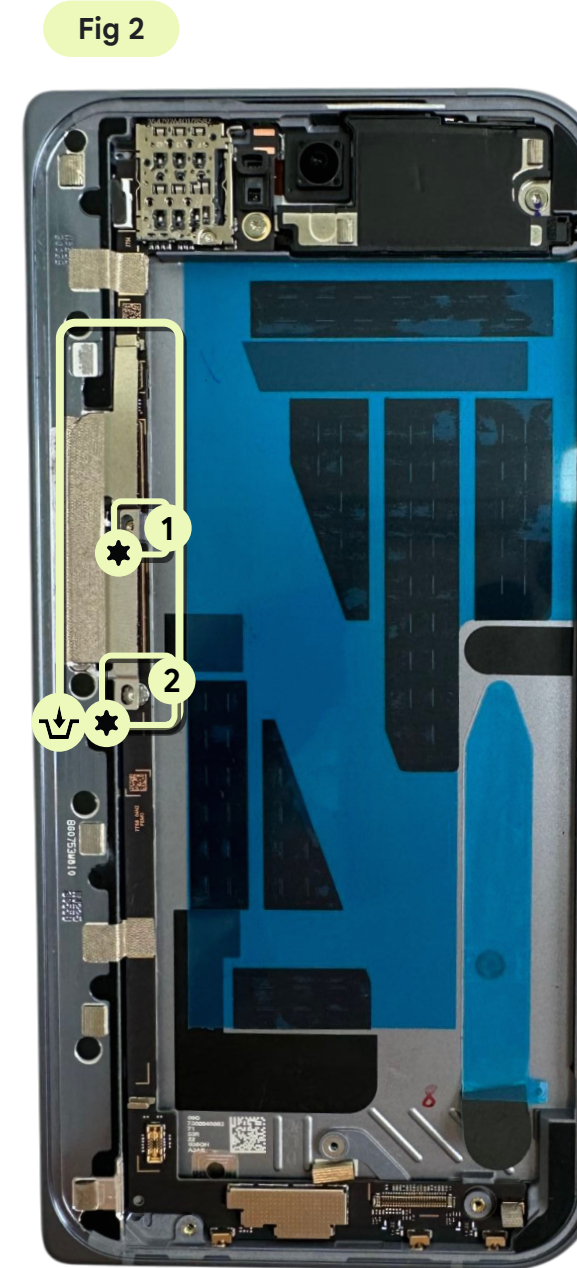


Fig 2



Fig 3



Assembly
instructions

Flip battery

Remove the liners

- Remove any debris or loose screws from the **enclosure** before the procedure.
- Apply pressure on the **adhesive** strips with a **spudger** or fingers for proper adhesion.
- Remove the blue **liners** and **masking tapes** if you use a new ID sub.
- Remove the blue liner.



Use caution

Review all safety precautions before you begin work.

Make sure that the battery cosmetic checks are completed.



Apply pull jacket

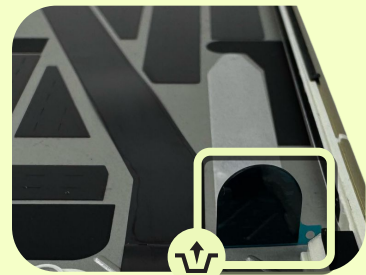
- Attach the **pull jacket** so that it aligns with the **pull tab** and the left edge of the enclosure. Ensure that it attaches vertically next to the SIM slot.
- Remove the blue **liners** of the **pull jacket** and **pull tab**.

Part: G806-14434-00 (pull jacket)



Note

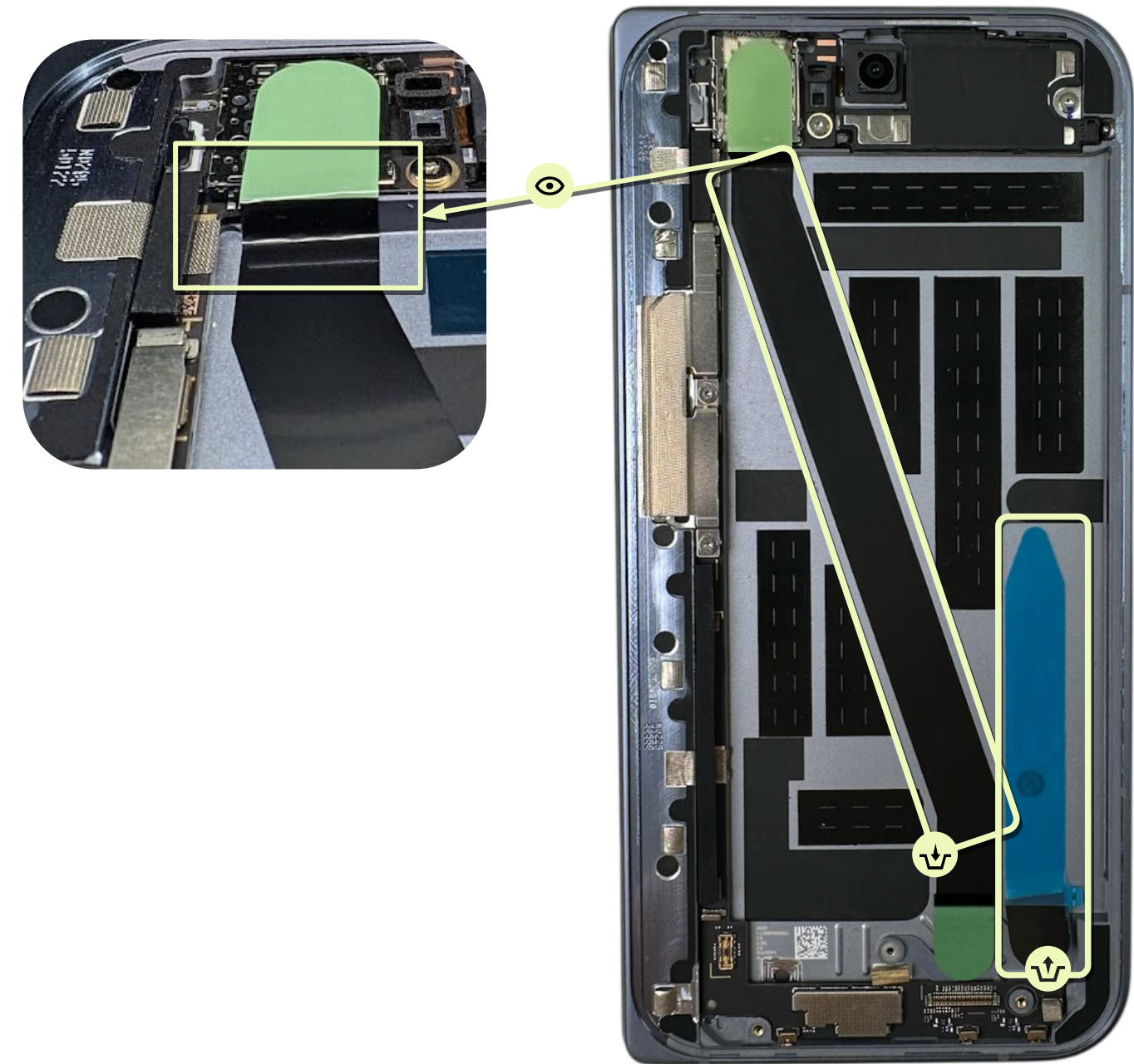
Peel off the liner from the opposite side of the removal tab.



Use caution

Review all safety precautions before you begin work.

Make sure that the battery cosmetic checks are completed.



Apply the AP111 primer

Evenly apply the primer across the flip battery's entire back surface.

Part: multiple part numbers (flip battery)



Use caution

Review all safety precautions before you begin work.

Make sure that the battery cosmetic checks are completed.



Position the flip battery

- Confirm the battery model to be **G3M28**, as shown in **Fig 1**. If the model number isn't **G3M28**, please *don't* use the battery.
- Use an **adsorption bulb** to pick up the battery.
- Align it to the upper-right corner of the depression and push it to the upper side and right side as much as possible.
- Remove the adsorption bulb and the **white liner** carefully.



Note

The white liner ensures that the battery is in the correct position.

Don't remove it prior to install.



Use caution

Review all safety precautions before you begin work.

Make sure that the battery cosmetic checks are completed.



Note

Check the mylar of the enclosure, and lift and press it with dust-free cotton swabs before the battery installation.

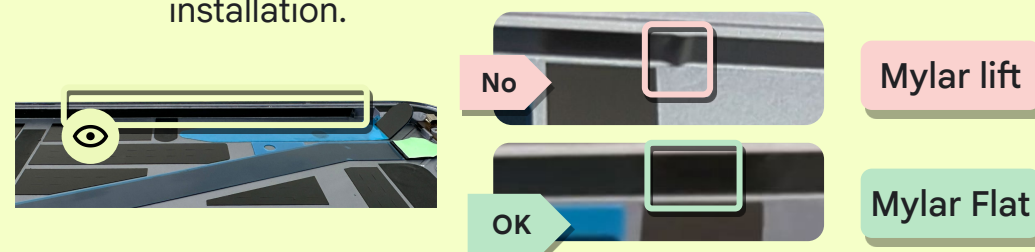
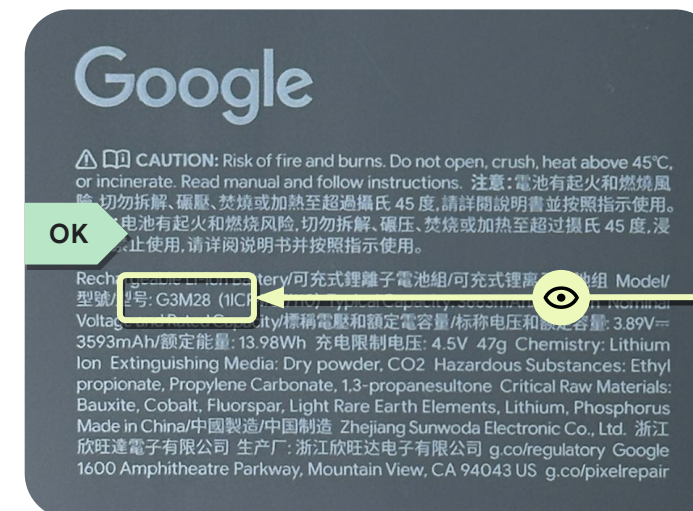


Fig 1



Press the flip battery

- Place the **universal supporting rubber #2** on the **universal holder #2**, and place the **universal holder limiting block #2** on top.
- Place the **fixture** in position **B2** on the **universal base**.
- Place the **Pixel 10 Pro Fold flip battery press rubber** on top of the **universal holder #2**, as shown in **Fig 1**.
- Place the **universal press plate 12 mm** on the **Pixel 10 Pro Fold flip battery press rubber**, as shown in **Fig 2**.
- Place it in the **universal press fixture**. Press the handle down for **25 seconds**, as shown in **Fig 3**.



Use caution

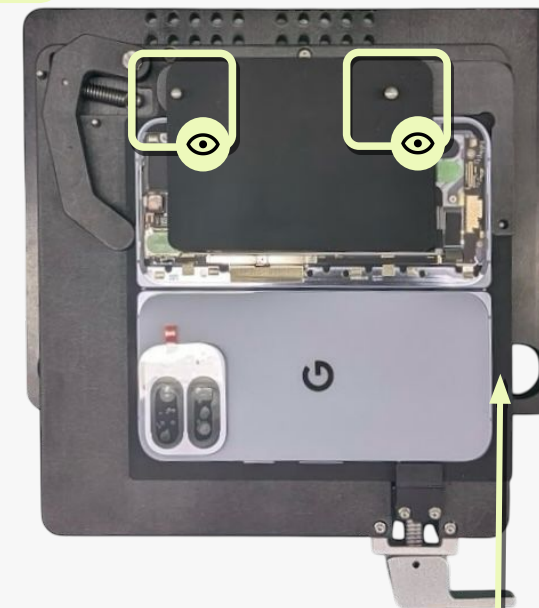
Keep hands clear during operation.



Note

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

Fig 1

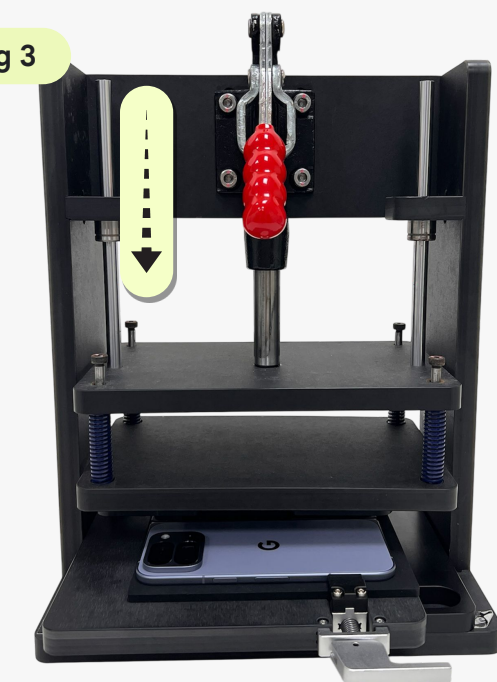


Universal
base

Fig 2



Fig 3





Assembly
instructions

OD (outer display) sub

Solution 1: reuse the outer display

Solution 1: reuse the outer display



Reuse the OD

- Use a spudger to remove remaining glue from the OD. Remove large adhesive chunks with your fingers or tweezers.
- Repeat for any adhesive residue.
- If any remains, clean the surface with a dust-free cloth and IPA.



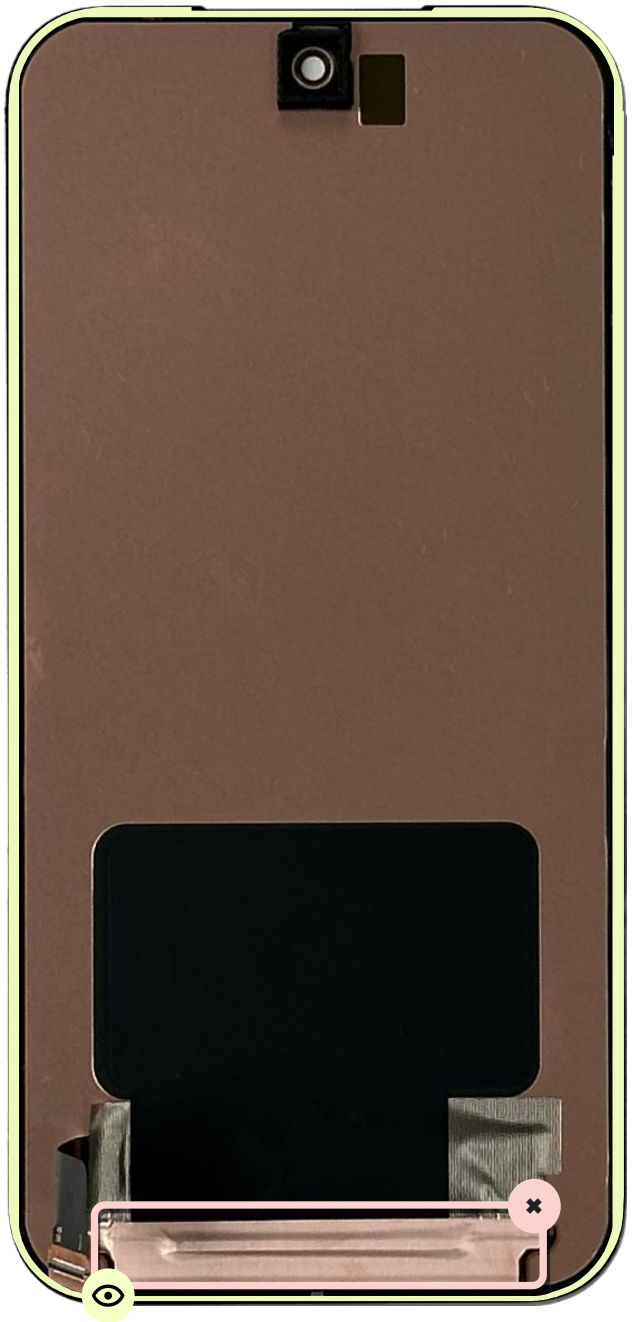
Note

The yellow highlight indicates areas with residual adhesive.



Use caution

Don't use the deglue machine on the driver IC area.



Solution 1: reuse the outer display



Apply the 3M AP111 primer

- Apply the **IPA** around the edges of the **enclosure** with **dust-free cotton swabs**.
- Apply the **3M AP111 primer** around the edges of the **enclosure** with **dust-free cotton swabs**.



Use caution

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



Inner Display Sub

Outer Front Camera

Upper Board

Lower Board

Flip Battery

Outer Display

Solution 1: reuse the outer display



Align the OD PSA

- Slowly remove the larger liner from the **adhesive sheet** to expose the adhesive.
- Place the sheet over your phone, and align it with the device's top.
- Use your hand to apply the **adhesive** onto the enclosure top side.

Part: G806-14480-00 (OD PSA)



Use caution

Don't touch the adhesive.

If it gets dirty, replace it.



Solution 1: reuse the outer display



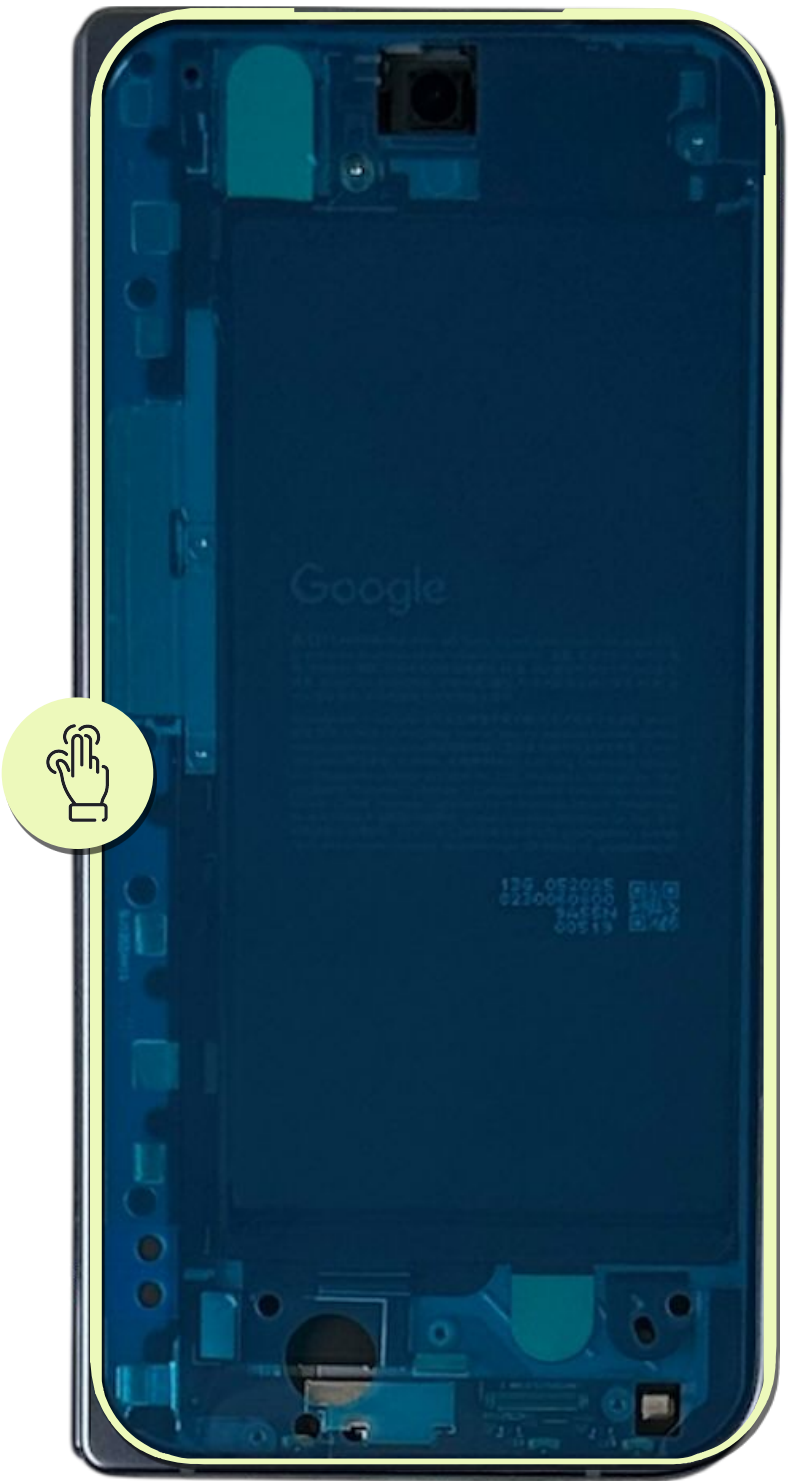
Activate the adhesive

- Make sure that the **adhesive** fully adheres to the **enclosure**.
- Activate it with a **spudger**.



Note

Inspect for any misalignment.



Solution 1: reuse the outer display



Remove the liner (first layer)

Carefully pull the tab to remove the **liner**, and avoid lifting the **adhesive**.



Use caution

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



Solution 1: reuse the outer display



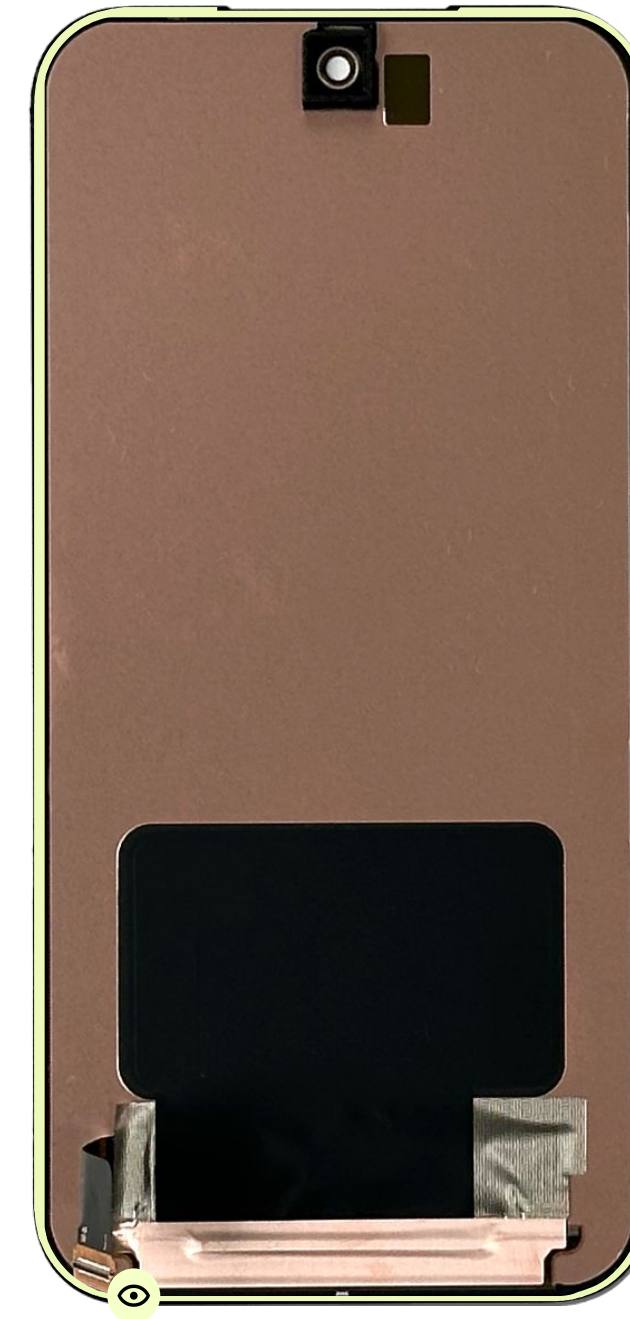
Apply the 3M AP111 primer on the OD

- Apply the **IPA** around the edges of the **OD** with **dust-free cotton swabs**.
- Apply the **3M AP111 primer** around the edges of the **OD** with **dust-free cotton swabs**.



Use caution

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



Solution 1: reuse the outer display



Connect the OD sub

- Use an **adsorption bulb** to prop up the **OD**.
- Apply even pressure across the connector to connect the **OD** to the **lower board** and ensure a full engagement.
- Apply even pressure across the connector to connect the **flip battery** to the **lower board** and ensure a full engagement.

Part: G949-01528-00 (OD sub)



Use caution

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

Check if all connectors are fully attached to the **lower board**.



Main Body

CG

Inner Display Sub

Outer Front Camera

Upper Board

Lower Board

Flip Battery

Outer Display

Solution 1: reuse the outer display



Check the display

- Remove the **inner display process protective film**.
- Power on with ESD spudger and **wait at least 10 seconds** to check if the device works properly. Power off after check.



Use caution

Don't touch the ID's TP until it turns to the **Welcome page** since touch panel self calibration is in progress.

Follow the instruction:
TP calibration note



[Solution 1: reuse the outer display](#)

Place the OD cowling

- Install the **OD cowling** on the **lower board** with tweezers.
- Fasten **three OD cowling screws** with a **torx plus 3IP screwdriver**, and tighten twice.
- Power on to check the device's functionality and power off afterward.

Part: G250-08248-00 (screw)

Part: G250-08005-21 (screw*2)

Part: G730-09622-01 (OD cowling)



Use caution

Be cautious when you use the screwdriver.
Avoid damaging the adjacent battery.

Incorrect use of the screwdriver might result in injuries to yourself or others, as well as damage to the battery or the product.



Note

There's a hook behind the upper side of the cowling. Install the cowling at an angle so that the hook clings to the flex below. Gently pull it downward to ensure proper alignment.



A: G250-08248-00

B: G250-08005-21

Solution 1: reuse the outer display



Remove the liner

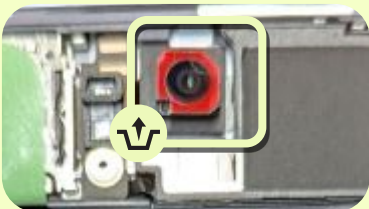
- Carefully peel the **OD PSA liner** counterclockwise with **tweezers**.

Part: G806-14480-00 (OD PSA)



Note

Remove the outer FCAM cap if you use a new outer FCAM.



Pick the tab here.

Inner Display Sub

Outer Front Camera

Upper Board

Lower Board

Flip Battery

Outer Display

Solution 1: reuse the outer display



Attach the OD

- Assemble the **OD** onto the device, and remove the **adsorption bulb**.
- Press around the OD sub with both hands.



Note

Press the top side middle first, then follow with the two long sides and the bottom side.



Inner Display Sub

Outer Front Camera

Upper Board

Lower Board

Flip Battery

Outer Display

Solution 1: reuse the outer display



Press the OD

- Place the **universal supporting rubber #2** on the **universal holder #2**, and place the **universal holder limiting block #2** on top.
- Place the fixture** in position **C2** on the **universal base**.
- Apply the **Pixel 10 Pro Fold OD press rubber** on top of the **universal holder #2**, as shown in **Fig 1**.
- Place the **universal press plate 12 mm** on the press rubber, as shown in **Fig 2**.
- Place it in the **universal press fixture** and press the handle down for **45 seconds**, as shown in **Fig 3**.



Use caution

Keep hands clear during operation.



Note

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



Note

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

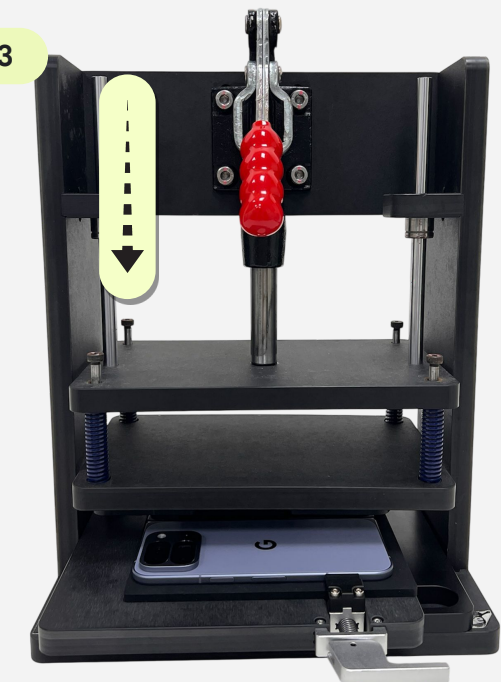
Fig 1



Fig 2

Universal
base

Fig 3





Assembly
instructions

Outer display

Solution 2: use a new outer display sub

Solution 2: use a new outer display sub



Apply the 3M AP111 primer

- Apply the **IPA** around the edges of the **enclosure** with **dust-free cotton swabs**.
- Apply the **3M AP111 primer** around the edges of the **enclosure** with **dust-free cotton swabs**.



Use caution

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



Inner Display Sub

Outer Front Camera

Upper Board

Lower Board

Flip Battery

Outer Display

Solution 2: use a new outer display sub

Connect the OD sub

- Use an **adsorption bulb** to prop up the **OD**.
- Apply even pressure across the connector to connect the **OD** to the **lower board** and ensure a full engagement.
- Apply even pressure across the connector to connect the **flip battery** to the **lower board** and ensure a full engagement.

Part: G949-01528-00 (OD sub)



Use caution

When attaching the **OD**, ensure that the **driver IC (COF)** isn't damaged or deformed.

Check if all connectors are fully attached to the **lower board**.



Solution 2: use a new outer display sub



Place the OD cowling

- Install the **OD cowling** on the **lower board** with tweezers.
- Fasten **three OD cowling screws** with a **torx plus 3IP screwdriver**, and and tighten twice.
- Power on to check the device’s functionality and power off afterward.

Part: G250-08248-00 (screw)

Part: G250-08005-21 (screw*2)

Part: G730-09622-01 (OD cowling)



Use caution

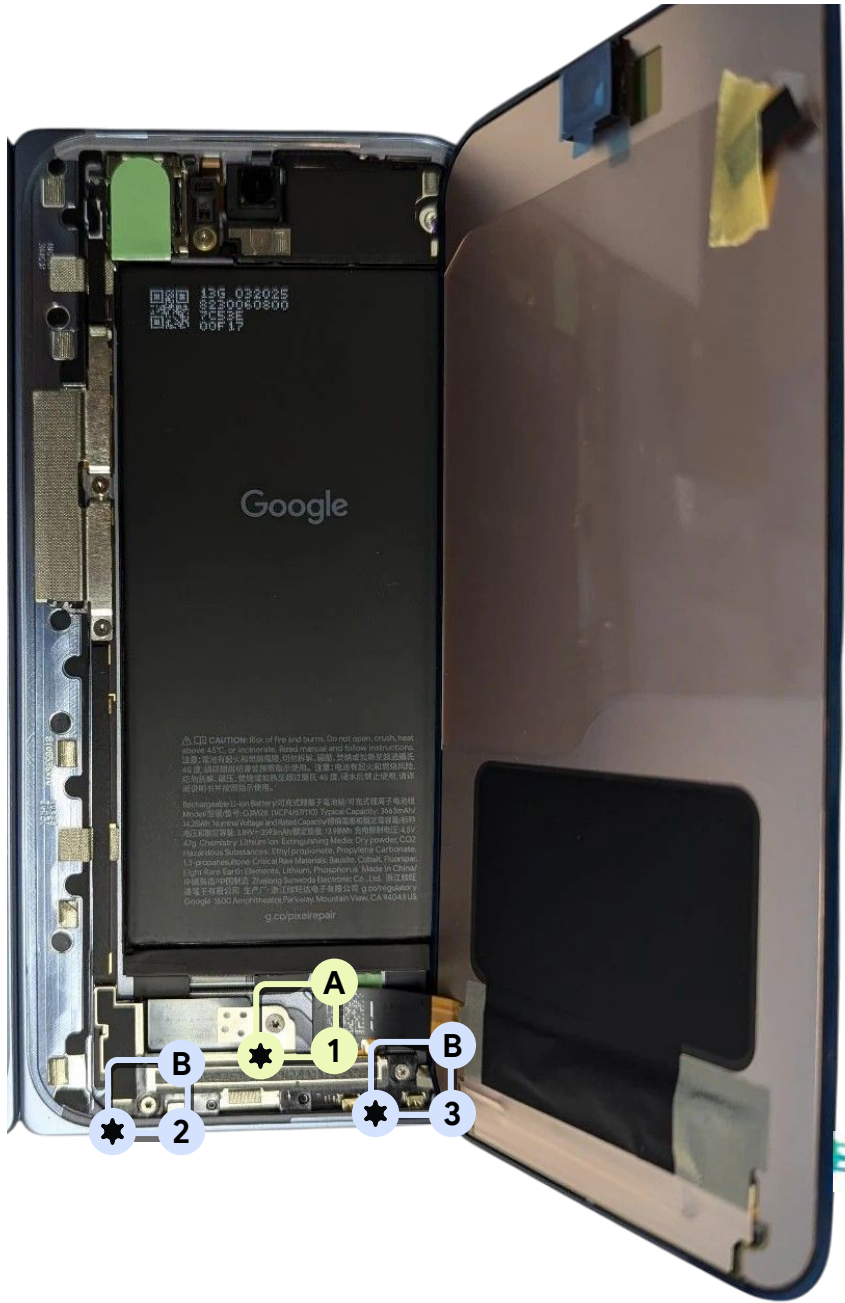
Be cautious when you use the screwdriver.
Avoid damaging the adjacent battery.

Incorrect use of the screwdriver might result in injuries to yourself or others, as well as damage to the battery or the product.



Note

There’s a hook behind the upper side of the cowling. Install the cowling at an angle so the hook clings to the flex below. Pull it downward gently to ensure proper alignment.



A:G250-08248-00

B: G250-08005-21

Solution 2: use a new outer display sub



Remove the liner, film and cap

- Carefully peel the OD PSA liner with tweezers.
- Remove the masking tape, **outer FCAM film**, and **sponge liner**, as shown in **Fig 1**.



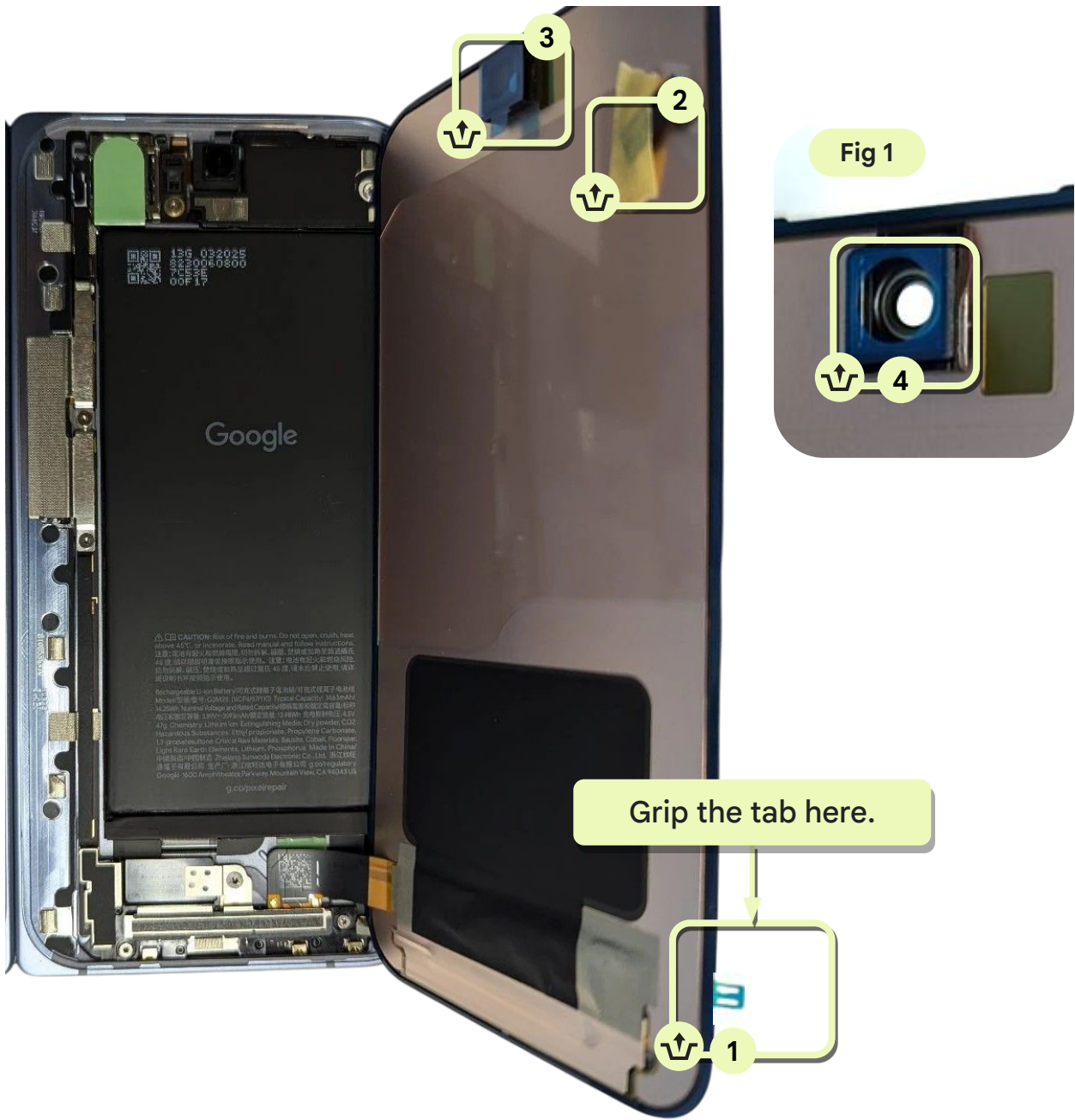
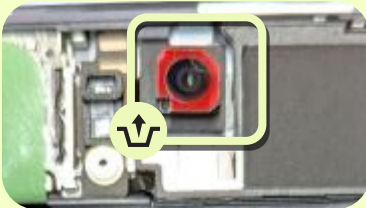
Use caution

Make sure that the environment is clean for this process.



Note

Remove the outer FCAM cap if you use a new outer FCAM.



Solution 2: use a new outer display sub



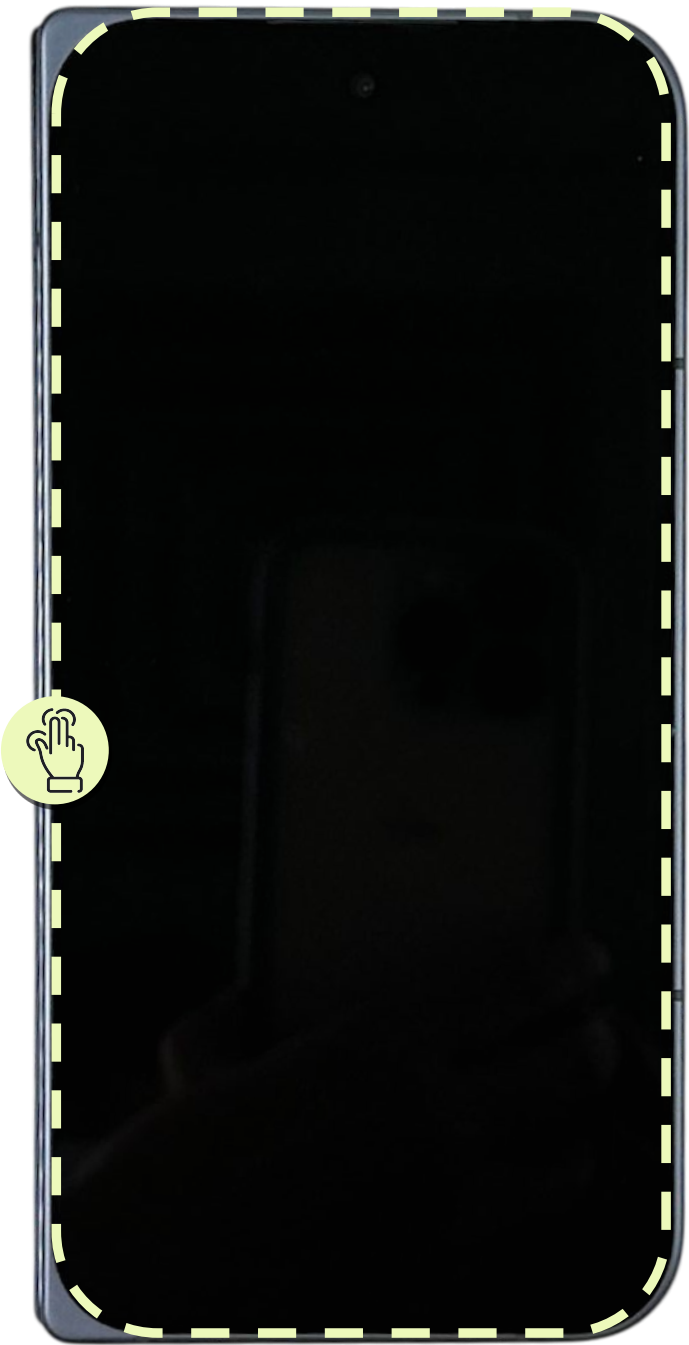
Attach the OD

- Assemble the **OD** onto the device, and remove the **adsorption bulb**.
- Press around the OD sub with both hands.



Note

Press the top side middle first, then follow with the two long sides and the bottom side.



Solution 2: use a new outer display sub



Press the OD

- Place the **universal supporting rubber #2** on the **universal holder #2**, and place the **universal holder limiting block #2** on top.
- Place the fixture** in position **C2** on the **universal base**.
- Apply the **Pixel 10 Pro Fold OD press rubber** on top of the **universal holder #2**, as shown in **Fig 1**.
- Place the **universal press plate 12 mm** on the press rubber, as shown in **Fig 2**.
- Place it in the **universal press fixture** and press the handle down for **45 seconds**, as shown in **Fig 3**.



Use caution

Keep hands clear during operation.



Note

Make sure that all protective films are removed before pressing.



Note

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

Fig 1

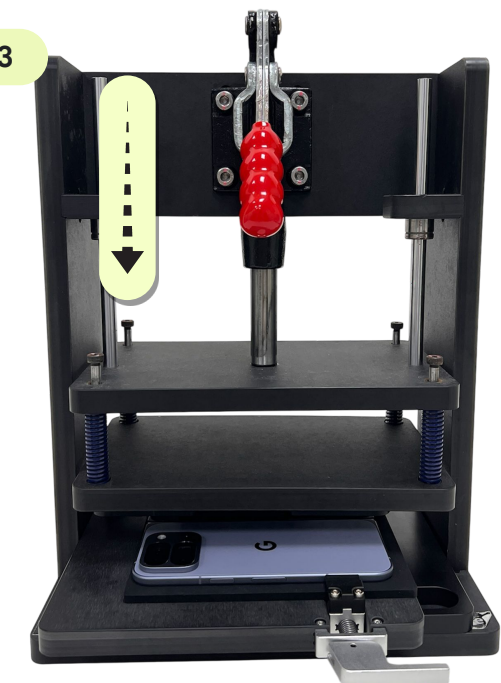


Fig 2



Universal base

Fig 3





Pixel 10 Pro Fold repair manual

Troubleshooting

Connectors location

Bottom speaker

FPS (power button)

Inner display

Power

Vibrator

Volume button

Inner display touch panel

Wireless charge

Outer display

Rear camera

UWB

Mic 1

Outer display touch panel

Outer front camera

Hinge

Mic 2

RF (BT, WiFi, GPS, NFC)

Inner front camera

Mic 3

Battery

USB

Top speaker

SIM

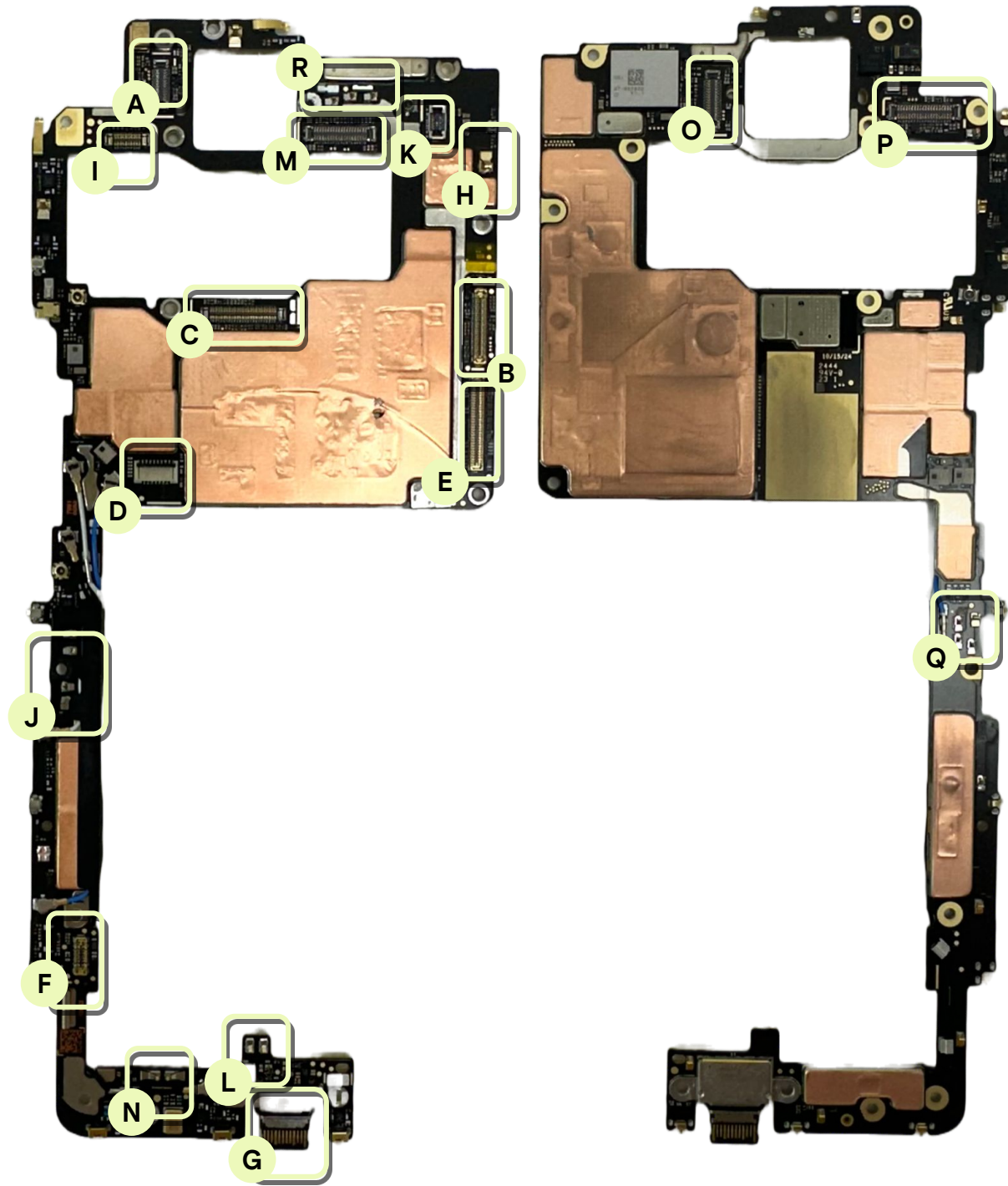
mmWave

Sensor

Connectors location

Location and description

A	Inner front camera connector
B	Upper bridge FPC connector
C	Inner display connector
D	FPS (power button) connector
E	Bottom bridge FPC connector (include flip battery pins)
F	Base battery connector
G	USB port
H	UWB spring
I	Flam board connector
J	NFC or WLC spring
K	IF FPC connector
L	Bottom speaker spring
M	Tele camera connector
N	Vibrator spring



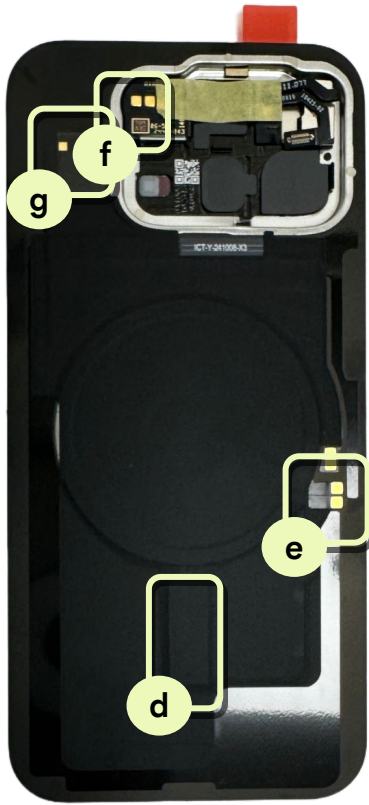
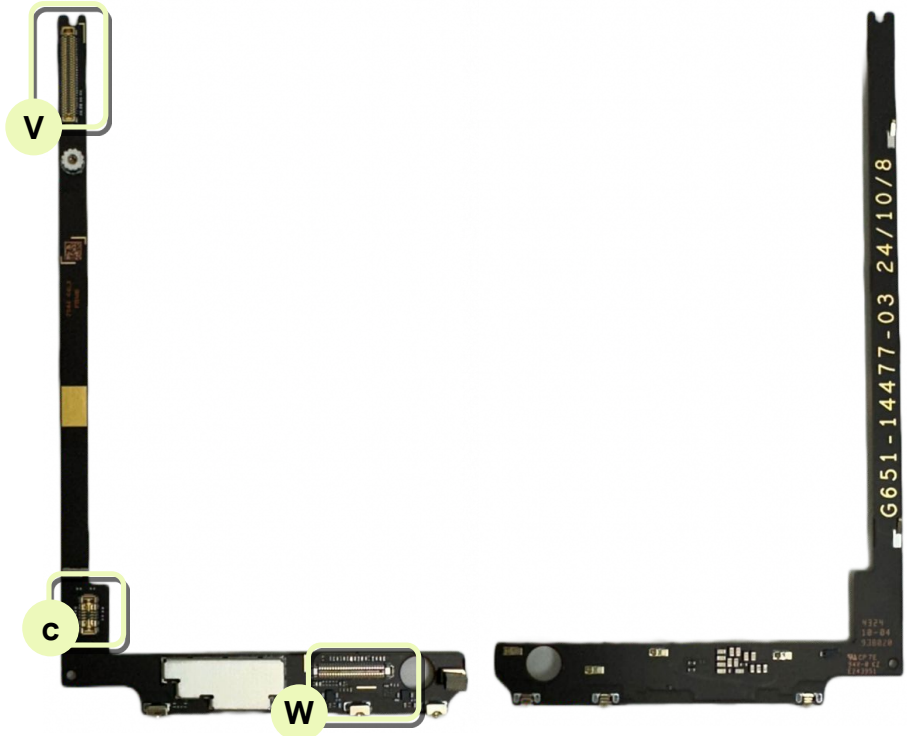
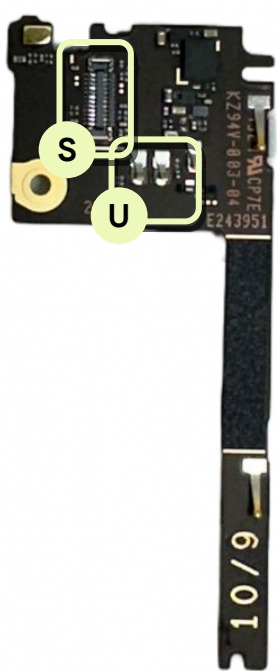
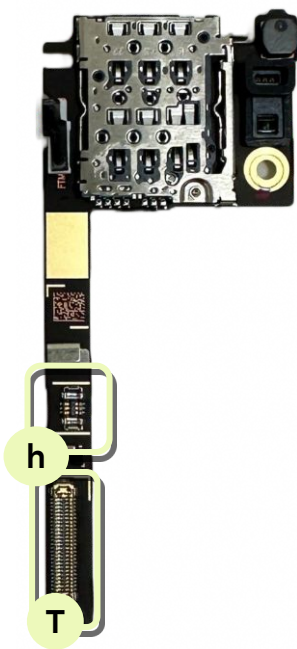
Location and description

O	WIDE camera connector
P	UW camera connector
Q	Sidekey spring
R	Flash spring

Connectors location

Location and description

S	Outer front camera connector
T	Upper bridge FPC connector
U	Top speaker spring
V	Lower bridge FPC connector
W	Outer display connector
X	Upper bridge FPC connector (flip side) (to T)
Y	Upper bridge FPC connector (base side) (to B)
Z	Bottom bridge FPC connector (base side) (to E)
a	Inner display FPC connector (to C)
b	Bottom bridge FPC connector_1 (flip side) (to V)
c	Bottom bridge FPC connector_2 (flip side) (to flip battery)
d	Magnet Power Profile
e	NFC or WLC contact pad
f	Flam board FPC connector (to I)
g	UWB contact pad
h	Antenna 1 FPC connector
i	Antenna FPC connector (to h)



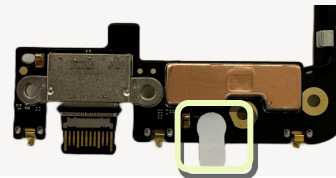
Power

Symptom	Potential root cause	Procedure	
 T001: doesn't power on T002: powers off suddenly T004: wired charging failure	Damage	- Inspect the USB-C connector for debris preventing charging. - Inspect the device if it's damaged. - Inspect the liquid damage indicators.	
	Battery capacity problem	Insert the USB cable and try to charge the device for at least 10 minutes, or a dummy battery to see if the device is out of battery capacity. If not, go to the next step.	
	Connectivity problem	- Check if the base side's connectivity between the base battery connector, bottom bridge FPC connector (for flip battery), and logic board is normal. - Check if the flip side's connectivity between the flip battery connector and the lower board connector is normal. - If they aren't fully attached, reassemble and then test again.	Connectors location
	Module problem	- Use a functional logic board,base or flip battery, inner display sub and lower board to cross-check with the original ones. - Replace the defective component.	Disassembly - Logic board - Base battery - Flip battery - Inner display sub - Lower board

Wireless charge

Symptom	Potential root cause	Procedure	
 T003: wireless charging failure	Connectivity problem	• Check if the connectivity between the BG sub’s WLC pad and the logic board is normal. If there's no mark on the pin contact pads, it shows poor connectivity. • If marks are observed, clean the contact pad and test again.	Connectors location
	Module problem	• Use a correct BG sub and logic board to cross-check with original ones. • Replace the defective component.	Disassembly • Logic board • BG sub

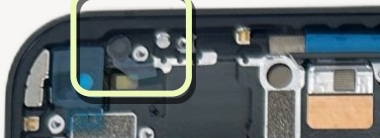
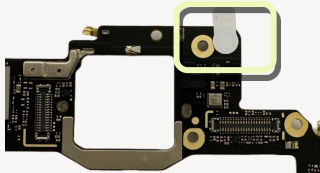
Mic 1

Symptom	Potential root cause	Procedure	
 T010: mic 1 no sound T011: mic 1 low sound T012: mic 1 distorted sound  1 Mic 1 2 Mic 2 3 Mic 3	Mesh not clean	- Take a microscope to check the mic hole. For example, block by burrs or overflowing glue. - Clean the hole and test audio.	
	Assembly problem	- Disassemble the device and check if the mic 1 mesh is fully seated, as shown in Fig 1. - Check if the mic 1 liner is removed, as shown in Fig 2. If not, go to the next step. - Test mic 1 again.	Fig 1 Fig 2
	Module problem	- Use a correct logic board and inner display sub to cross-check with the original ones. - Replace the defective component.	Disassembly - Logic board - Inner display sub

Mic 2

Symptom	Potential root cause	Procedure
 T013: mic 2 no sound T014: mic 2 low sound T015: mic 2 distorted sound	Connectivity problem	• Check if the connectivity between the flam board connector and the logic board is normal. • If they aren't fully attached, reassemble and then test again.
 1 Mic 1 2 Mic 2 3 Mic 3	Module problem	• Use a correct BG sub and logic board to cross-check with the original ones. • Replace the defective component. Disassembly • BG sub • Logic board

Mic 3

Symptom	Potential root cause	Procedure
 T016: mic 3 - no sound T017: mic 3 - low sound T018: mic 3 - distorted sound  1 Mic 1 2 Mic 2 3 Mic 3	Mesh not clean Assembly problem Module problem	- Take a microscope to check the mic hole, for example block by burrs or overflowing glue. - Clean the hole and test audio. - Disassemble the device and check mic 3 mesh is fully seated, as shown in Fig 1. - Check if the logic board mic 3 liner is removed, as shown in Fig 2. If not, go to the next step. - Test mic 3 again. - Use a correct logic board and inner display sub to cross-check with the original ones. - Replace the defective component.
		 Fig 1  Fig 2 Disassembly - Logic board - Inner display sub

Top speaker

Symptom	Potential root cause	Procedure
 T019: top speaker no sound T020: top speaker low sound T021: top speaker distorted sound	Connectivity problem	Connectors location • Check if the connectivity between the top speaker pad and the upper board is normal. If there's no mark on the pin contact pads, it shows poor connectivity. • If they aren't fully attached, reassemble and then test again.
	Module problem	Disassembly • Top speaker (inner display sub) • Upper board • Inner display sub

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 and check for a polluted mesh on the bottom speaker port. Use a soft ESD brush to remove any debris. • Test audio.	
	Internal debris	• If the sound quality is still poor, inspect the mesh and the speaker with a microscope. • Disassemble the device and inspect the speaker. Remove any debris and test audio.	
	Connectivity problem	• Check if the connectivity between the bottom speaker pad and the logic board is normal. If there's no mark on the pin contact pads, it shows poor connectivity. • If they aren't fully attached, reassemble and then test again.	Connectors location
	Module problem	• If the sound quality is still poor, use a correct bottom speaker and logic board to cross-check with the original ones. • Replace the defective component.	Disassembly • Bottom speaker • Logic board

Vibrator

Symptom	Potential root cause	Procedure
 T026: vibrator failure	Connectivity problem	Connectors location • Check if the connectivity between the vibrator pad and the logic board is normal. If there's no mark on the pin contact pads, it shows poor connectivity. • Test the vibrator again. Check the function by triage test.
	Component problem	Disassembly • Vibrator with cowling • Logic board

Outer 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	Inspect the display for damage and replace if necessary.	
	Connectivity problem	- Check if the connectivity between the outer display connector, lower board, and the lower bridge connector is normal. - If they aren't fully attached, reassemble and then test again.	Connectors location
	Dead pixels Distorted graphics Flickering Color issues	- Remove the outer display module, fit a replacement part without adhesive and test. - If the issue is resolved, apply adhesive and fit a new outer display module.	Disassembly Outer display

Outer display (continued)

Symptom	Potential root cause	Procedure	
 T040: display single crack T041: display multiple cracks T042: display to back cover gap T043: display cosmetic defects	Dimple issues	Remove the outer display module to check the display copper.	Disassembly Outer display
	Component problem	- Use a correct outer display, lower board, and inner display sub to cross-check with the original ones. - Replace the defective component.	Disassembly - Outer display - Lower board - Inner display sub

Outer display touch panel

Symptom	Potential root cause	Procedure	
 T044: multi-touch poor response T045: multi-touch no response T046: multi-touch erratic response	Connectivity problem	• Check if the connectivity between the outer display connector and the lower board is normal. • If they aren't fully attached, reassemble and then test again.	Connectors location
	Touch screen	• Remove the outer display module, fit a replacement part without the adhesive and test. • If the issue is resolved, apply the adhesive and fit a new outer display module.	Disassembly Outer display
	Dead pixels Distorted graphics Flickering Color issues	• Use a correct outer display, lower board, and inner display sub to cross-check with the original ones. • Replace the defective component.	Disassembly • Outer display • Lower board • Inner display sub

RF (BT, WiFi, GPS, NFC)

Symptom	Potential root cause	Procedure
 T047: RF failure T048: Wi-Fi connectivity issues T049: bluetooth connectivity T050: GPS failure T051: NFC connectivity Issues	Connectivity problem	• Check if the screws are loose, springs are damaged, and the coaxial cable of logic board is unlatched. • Check if the connectivity between the BG sub, inner display sub, and logic board is normal. If there's no mark on the pin contact pads, it shows poor connectivity. • If marks are observed, clean the contact pad and test again. • If not, go to the next step.
	Module problem	Connectors location Disassembly • BG sub • Logic board • Coaxial cable RCAM • Lower board • Top speaker with ANT 4 FPC • ANT 1 FPC • Inner display sub

Battery

Symptom	Potential root cause	Procedure	
 T053: battery damage T054: battery draining fast T055: device overheats	Connectivity problem	- Check if the base side’s connectivity between the base battery connector, bottom bridge FPC connector for flip battery, and logic board is normal. - Check if the flip side connectivity between the flip battery connector and the lower board connector is normal. - If they aren’t fully attached, reassemble and then test again.	Connectors location
	Module problem	- Use a correct base battery and logic board to cross-check with original ones. - Use a correct flip battery,lower board and inner display sub to cross-check with the original ones. - When it’s confirmed that the battery is abnormal, replace the two batteries together.	Disassembly - Base battery - Logic board - Flip battery - Lower board - Inner display sub

SIM

Symptom	Potential root cause	Procedure	
 T056: SIM failure	Connectivity problem	• Check if the connectivity between the SIM slot and the SIM tray is normal. • If they aren't fully attached, reassemble and then test again.	Connectors location
	Component problem	• Use a correct upper board and inner display sub to cross-check with the original ones. • Replace the defective component.	Disassembly • Upper board • Inner display sub

Sensor

Symptom	Potential root cause	Procedure
 T059: proximity sensor failure T060: ambient light sensor failure T061: accelerometer sensor failure T062: gyroscope sensor failure T063: hall sensor failure T066: pressure sensor failure T099: rainbow sensor defect T108: LDAF laser module T118: magnetometer failure T149: accelerometer sensor_2 failure T150: gyroscope sensor_2 failure T155: ambient light sensor_2 failure	SW problem	Make sure that the SW is already updated to the latest version.
	Assembly issue	Check the P-sensor rubber to ensure that it's in the correct position. Make sure that there's no foreign substance that covers the P-sensor area.
	Connectivity problem	Check the function by triage test.
	Module problem	- Disassemble and check the appearance of the proximity sensor, so that it isn't abnormal. - Use a correct upper board, logic board, and inner display sub to cross-check with the P-sensor, light sensor 1, and the light sensor 2 failure. - Use a correct upper board, logic board, and inner display sub to cross-check with the accelerometer 1 or 2, the gyro sensor 1 or 2, the magnetic sensor and the hall sensor 1 or 2 failure. - Use a correct BG sub to cross-check with the rainbow or the flicker sensor and the LDAF failure. - Replace the defective components. Note P-sensor, light sensor 1, accelerometer 2, gyro sensor 2, and magnetic sensor at the upper board. Light sensor 2, accelerometer 1, gyro sensor 1, hall sensor, and barometer at the logic board. Rainbow sensor and LDAF at the BG sub.
		Assembly P-sensor rubber status
		Disassembly - Upper board (P-sensor rubber) - Lower board - Logic board - BG sub - Inner display sub

Sensor location

No	Function	Logic board	Upper board	Lower board	BG sub
1	Light sensor 1		O		
2	Light sensor 2	O			
3	P sensor		O		
4	Barometer	O			
5	Gyroscope 1	O			
6	Gyroscope 2		O		
7	Accelerometer 1	O			
8	Accelerometer 2		O		
9	Rainbow				O
10	LDAF				O
11	Magnetic sensor		O		
12	Hall sensor	O			

FPS (power button)

Symptom	Potential root cause	Procedure	
 T064: fingerprint sensor failure T068: power button failure	Connectivity issue	- Check if the connectivity between the fingerprint sensor module connector and the logic board are normal. - If they aren't fully attached, reassemble and then test again.	Connectors location
	Component issue	- Use a correct fingerprint sensor module and logic board to cross-check with the original ones. - Replace the defective component.	Disassembly - FPS (inner display sub) - Logic board

Volume button

Symptom	Potential root cause	Procedure	
 T069: volume button failure	Connectivity issue	- Check if the connectivity between the sidekey module and the logic board is normal. - If they aren't fully assembled, reassemble and then test again. Connectors location	
	Component issue	- Use a correct sidekey module and logic board to cross-check with the original ones. - Replace the defective component. Disassembly - Sidekey (inner display sub) - Logic board	

Rear camera

Symptom	Potential root cause	Procedure
 T072: camera AR failure T073: camera rear photo quality T074: camera rear video quality 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: ultrawide rear camera photo quality T117: ultrawide rear camera video quality T196: tele RCAM crashes T197: tele RCAM no preview T198: tele rear camera photo quality T199: tele rear camera video quality	SW problem	Make sure that the SW is already updated to the latest version.
	Cosmetic problem	- Inspect whether the camera lens area is damaged. - Check the function by triage test. - Disassemble the device to check if the camera connector is seated properly. Power on the unit and check the camera fail symptom.
	Connectivity problem	Check the rear camera BTB and the logic board side to identify if the assembly is deformed or flex crack, and reboot the device again to check if the fail symptom exists.
	Module problem	If the fail symptom still exists, cross-check the logic board itself or the camera module (UW, WIDE, or tele) to determine if the fail symptom is caused by the camera module or the logic board. Disassembly - Logic board - Rear camera

Outer 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	Cosmetic problem	- Inspect the camera lens area for damage. - Check the function by triage test. - Disassemble the device to check if the camera connector is seated properly. Power on the unit and check the camera failure symptom again.	
	Connectivity problem	Check the outer front camera BTB, upper board, and upper bridge connector side to identify if the assembly is deformed or flex crack, and reboot the device again to check if the fail symptom exists.	Connectors location
	Module problem	If the fail symptom still exists, use a correct logic board, outer camera module, and inner display sub to cross-check with original ones.	Disassembly - Upper board - Outer front camera - Inner display sub

Flashlight

Symptom	Potential root cause	Procedure	
 T077: camera flash not working	Connectivity problem	- Check if the connectivity between the flam FPC of BG and the logic board is normal. - If they aren't fully attached, reassemble and then test again.	Connectors location
	Module problem	- Use a correct BG sub and logic board to cross-check with the original ones. - Replace the defective component.	Disassembly - BG sub - Logic board

Inner front camera

Symptom	Potential root cause	Procedure	
 T078: can't switch between cameras T079: camera damage T156: camera front inner photo quality T157: camera front inner video quality T158: inner FCAM crashes T159: inner FCAM no preview	Cosmetic problem	- Inspect the camera lens area for damage. - Check the function by triage test. - Disassemble the device to check if the camera connector is seated properly. Power on the unit and check the camera fail symptom again.	
	Connectivity problem	Check the inner front camera BTB and the logic board side to identify if assembly is deformed or flex crack, and reboot device again to check if the fail symptom exists.	Connectors location
	Module problem	If the fail symptom still exists, cross-check the logic board itself or the camera module to determine if the fail symptom is caused by the camera module or the logic board.	Disassembly - Inner front camera - Logic board

USB

Symptom	Potential root cause	Procedure
 T085: USB-C failure	Connectivity problem	Connectors location - Check the function by triage test. - Disassemble the device to check if the logic board is seated properly. Power on the unit, and check the failure symptoms again.
	Module problem	Disassembly Logic board

mmWave

Symptom	Potential root cause	Procedure	
 T105: 5G_low med band failure T106: 5G high band failure	Connectivity problem	- Inspect the mmWave module and check if the IF FPC is correctly seated. - Check if the connectivity between the IF FPC and the logic board is normal. - Check if the connectivity between the inner display sub and the logic board is normal. - If they aren't fully attached, reassemble and then test again.	Connectors location
	Module problem	Use a correct mmWave module, IF FPC, and logic board to cross-check with the original ones.	Disassembly - mmWave - IF FPC - Logic board

Inner display

Symptom	Potential root cause	Procedure	
 T160: inner display blank T161: inner display dead pixel, dark spots, or foreign material T162: inner display bright pixel, bright, or colored spots T163: inner display vertical or horizontal lines	Damage Bubble	Inspect the inner display for damage or bubble between display and protective film and replace if necessary.	
	Connectivity problem	- Check if the connectivity between the inner display connector and the logic board is normal. - If they aren't fully attached, reassemble and then test again.	
	Dead pixels Distorted graphics Flickering Color issues	- Remove the inner display sub module, fit a replacement part without the adhesive and test. - If the issue is resolved, apply adhesive and fit a new inner display sub module.	
	Module problem	- If fail symptom still exists, use a correct inner display sub and logic board to cross-check with the original ones. - Replace the defective component.	Disassembly - Inner display sub - Logic board
T164: inner display black, white, or colored screen			
T165: inner display flickering or abnormal			
T166: inner display image quality			
T167: inner display color mura			
T168: inner display light leakage			
T169: inner display backlight issue			
T170: inner display shadow			
T171: inner display permanent burnin			
T172: inner display temporary burnin			
T173: inner display display single crack			
T174: inner display displays multiple cracks			
T175: inner_display_displays cosmetic defects			
T176: inner display screen is broken but display is working			
T186: protection film bubbles or delamination at hinge			
T187: protection film tear or removal			
T190: bump in Inner_display			
T191: inner dsplay_patchy thick band of dead pixels			

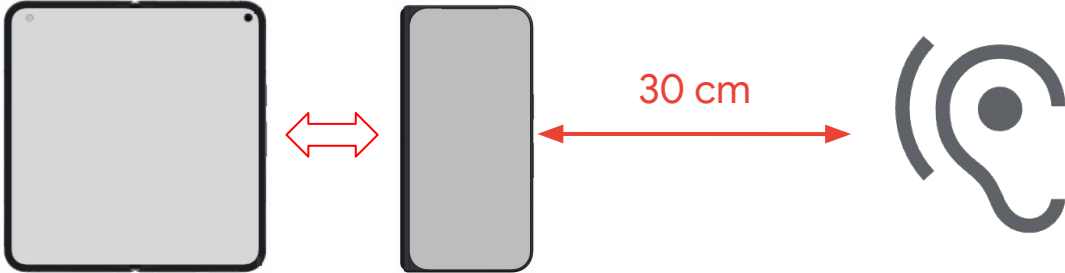
Inner display touch panel

Symptom	Potential root cause	Procedure	
 T177: inner display multi-touch poor response T178: inner display multi-touch no response T179: inner display multi-touch erratic response	Connectivity problem	- Check if the connectivity between the inner display connector and the logic board is normal. - If they aren't fully attached, reassemble and then test again.	Connectors location
	Touch screen	- Remove the inner display sub module, fit a replacement part without adhesive and test. - If the issue is resolved, apply adhesive and fit a new inner display sub module.	Disassembly Inner display sub
	Module problem	- Use a correct inner display sub and logic board to cross-check With the original ones. - Replace the defective component.	Disassembly - Inner display sub - Logic board

UWB

Symptom	Potential root cause	Procedure
 T181: ultra-wideband (UWB) failure	Connectivity problem	• Check if the connectivity between the BG sub and the logic board is normal. • If they aren’t fully attached, reassemble and then test again.
	Module problem	• Use a correct BG sub and logic board to cross–check with the original ones. • Replace the defective component. Connectors location Disassembly • BG sub • Logic board

Hinge

Symptom	Potential root cause	Procedure	
 T188: hinge function abnormal T189: hinge function abnormal CID	Component problem	- Follow the table below to check if the hinge function is abnormal. - Use a correct inner display sub to cross-check with the original ones. - Replace the defective component.	Disassembly Inner display sub
Check item	Verification method	Verification photo	
Open angle	Unfold the device completely, then put the device on the holder (ID face down and up) to check if the hinge area has any hump or sunk.	 ID face down or up	
Hinge torque	Put the device on the desk and open it at around 45 degrees and 135 degrees angle to check if the device could hold at 45 degrees and 135 degrees.	 45 degrees or 135 degrees angle	
Hinge noise	Remove the ID process PF before the test. Find a quiet area to listen at 30 cm distance to check if there's noise during folding and unfolding action three times.		



Pixel 10 Pro Fold repair manual

Software

Software tools

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