Pixel 10 Pro XL
Repair manual

Version 1.1, August 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 safely complete repairs.

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

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

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

Troubleshooting and testing
To identify the source of device problems and issues, use the diagnostic steps and testing recommended in this section.

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

Table of contents

Revision history

Version	Date	Change description
V1.0	July, 2025	First release
V1.1	August, 2025	1. Add torque spec. P12 2. Revise Insert the opening pick and align it with the 4 mm mark. P50. 3. Add a note "This step is only required when replace SPAM flex or RCAM". P90 4. Identify the area to apply IPA. P115 5. Add a picture of the mic3 mesh with the alignment line. P135 6. Revise route the coaxial cable position. P154 7. Identify CG liner area. P164 8. Add shear PSA alignment line. P167 9. Add Remove the CJ flex PSA liner. P184 10. Add the direction of removing the white liner. P189 11. Correct Tcode for wired charging and battery drain. P216 12. Correct Mic2 low sound to T014. P219 13. Revise LDI quantity and photo. P15 14. Add new thermal grease (G160-01481-00). P26, P80, P128 15. Change battery assembly liner picture. P23, P189 16. Add one page for bottom speaker removal. P102

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Precautions

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Important: Before you begin

⚠️

Be careful if you engage in repair

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

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

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

Always ensure that screws are securely fastened.

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

🔋

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

- Fully discharge the device battery before you attempt repair.

- Never bend, dent, puncture, or use tools to pry the battery.

- 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 XL contains a class 1 laser module

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

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

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Page 2 of 2

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, damage, or if the phone feels hot or emits a strong odor, *don't* attempt disassembly. Please reach out to Google customer support.

- Take care not to expose the phone or its components to liquids after disassembly.

Use caution ⚠

Examples of unacceptable battery conditions that are not suitable for repair*
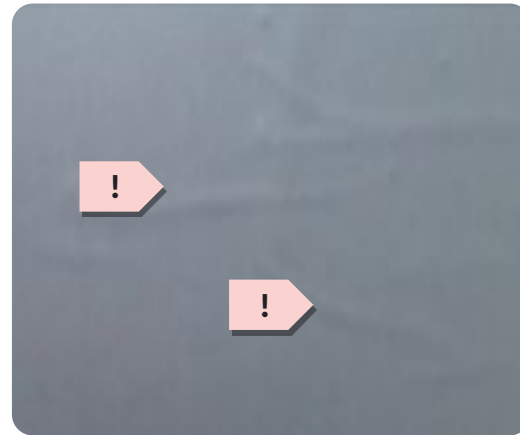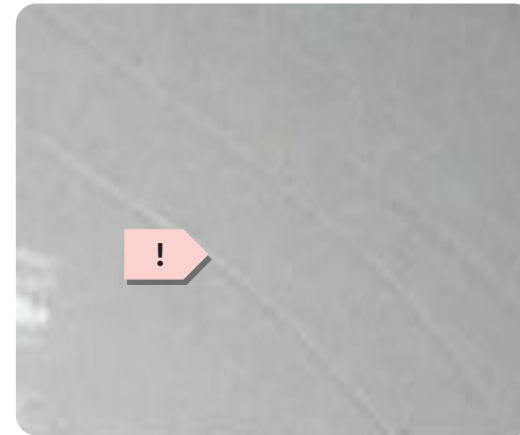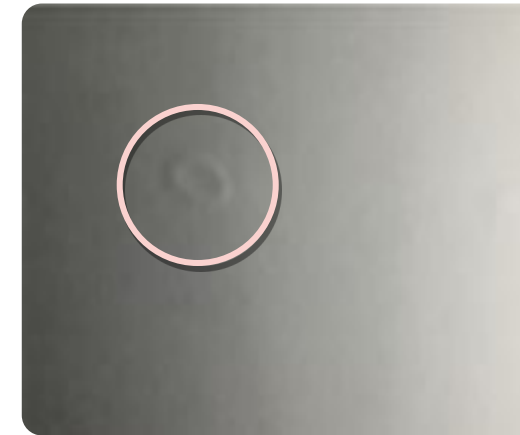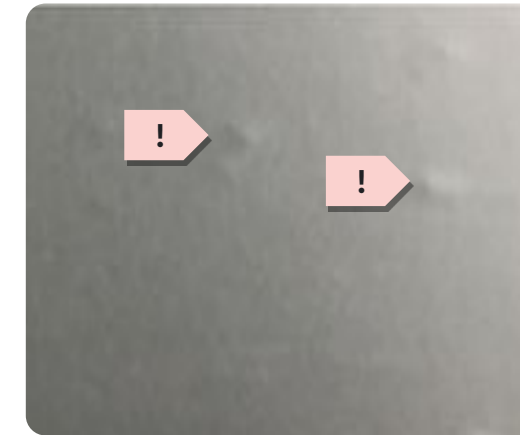
Pouch damage

Line protrusion

Scratch

Contamination mark

Dot protrusion

Dent

Bubbling

Imprinted line
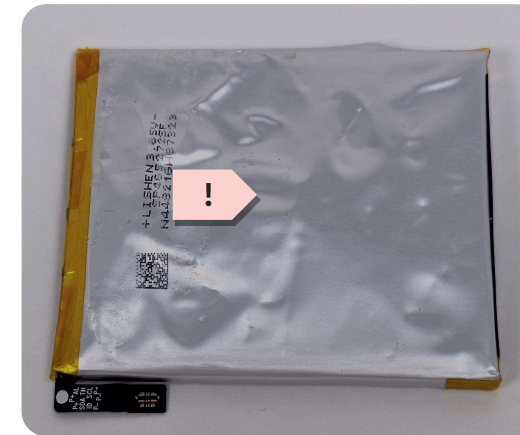
Swelling or electrolyte leakage

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

ⓘ

Pixel 10 Pro XL repair manual

Introduction

Expanded view   Turn the Pixel on and off

Screw map   Tools and fixtures

Screen calibration   Replacement parts

ESD protection   Glossary

Liquid damage indicators

Pixel 10 Pro XL: expanded view

Reuse indications
● Reusable without rework
● Reusable with rework
● Not reusable after disassembly

Pixel 10 Pro XL part ID

#	Part	#	Part	#	Part	#	Part	#	Part
1	Display module	8	Top speaker	15	SIM tray	22	BG cowling	29	CLB cowling
2	Display adhesive	9	ANT4 board	16	Thermal TIM	23	MLB cowling	30	Chin board
3	Display cowling	10	ANT4 cowling	17	P-sensor foam	24	Screw	31	RJ flex
4	DJ flex PSA	11	Thermal pad_mmWave	18	Logic board	25	BG adhesive	32	Battery
5	DJ flex	12	mmWave module	19	Coaxial cable	26	BG sub	33	CJ flex
6	Enclosure	13	FCAM	20	RCAM	27	Bottom speaker		
7	Top speaker pad	14	FCAM cowling	21	SPAM flex	28	Vibrator		

Screw map

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

Screw G250-07839-04	Screw G250-07891-04	Screw G250-08169-03	Screw G250-07839-03	Screw G250-08246-05

○ - Not hidden   ⊙ - Hidden

⚠️ **Screws are a single use item**

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

Torque Spec:
(1.5/1.8) ±0.05kgf-cm

💡 **After removal, always replace with a new screw**

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

Touch screen calibration process

Important:

Before you boot up the device

- Nothing should touch the display. This includes protective films, cases, fingers, tape, labels, scratch covers, adhesives, and debris.

- Devices should be on a flat surface. *Don't* hold it in your hands.

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

⚠ **Display touch calibration**

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

💡 **Touch function**

If this process isn't followed, the touch function of the screen 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, when the person who repairs the device wears a grounded ESD strap.

Avoid static buildup

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

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 pins

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

Liquid damage indicators

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

- Exposure to liquids could lead to the device malfunctioning, such as overheating or short circuits.

- There are three LDIs on this device.

- If either indicator has turned red, the device is considered to have been exposed to liquid.
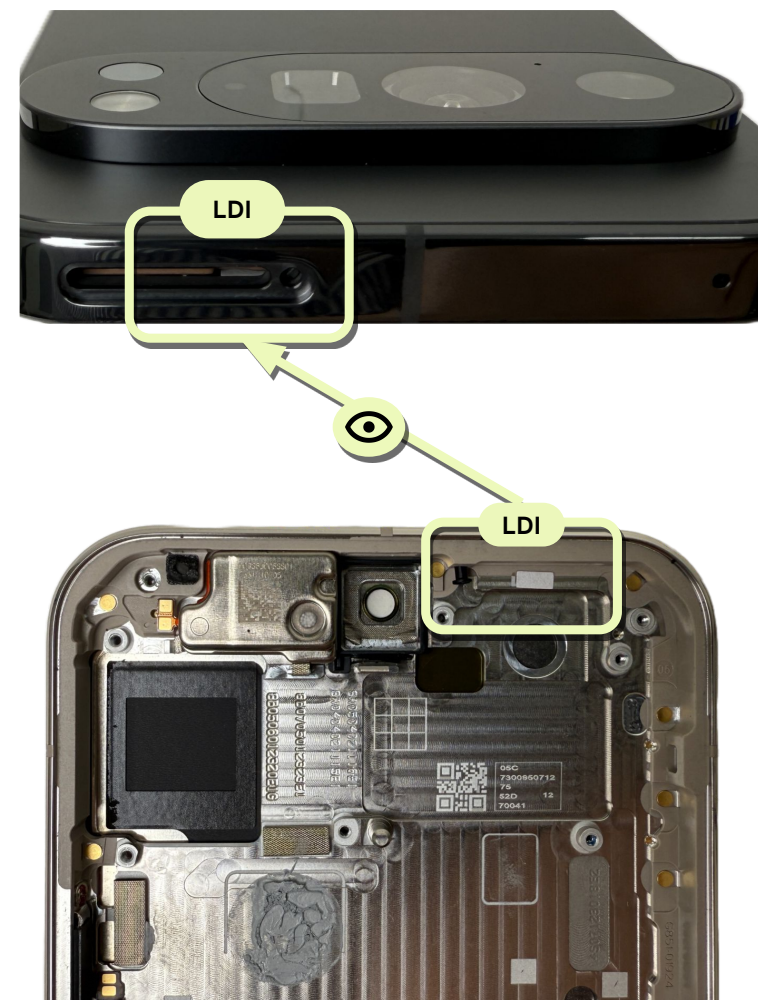
The SIM card tray slot on the enclosure is visible without disassembly of the device.
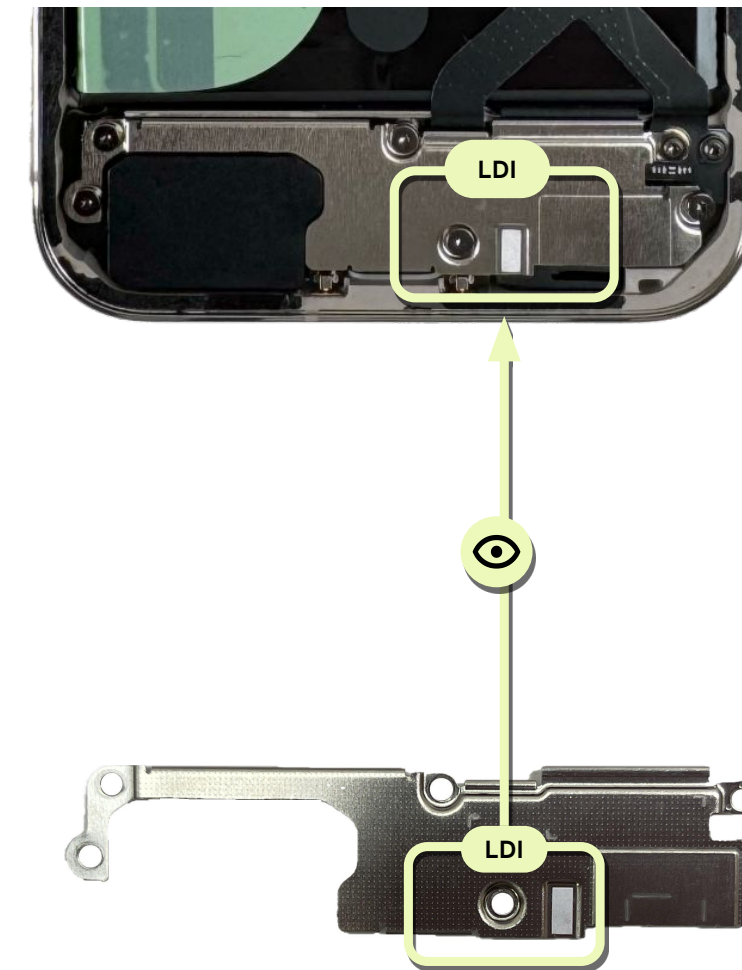
On the CLB cowling, near the charge port.
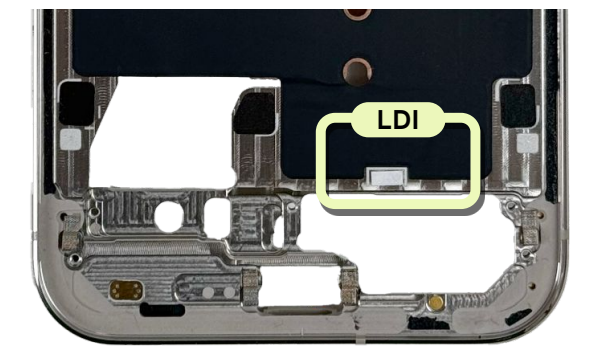
On the enclosure (CG side).

Turn the Pixel on and off

Turn the power on or off

- To turn on a device when it's powered off, press and hold the power button for a few seconds. <u>See where the power button is located</u>.

- To power off the phone when it's turned on:

  - To power off the phone, press and hold the power and volume up buttons for a few seconds.

  - Tap **Power off** on screen.

  - For more information, see <u>Google help page</u>.

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

Turn the screen off and back on

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

Tip: On some Pixel phones, you could see the time and some other information even when the screen is off. Learn which Pixel phones and <u>how to turn **Always show time and info** off or on</u>.

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, as well as damage to the product, tools, fixtures, replacement parts, or other spare parts.

⚒ Tools and fixtures

Google-approved fixtures: Pixel 10 Pro XL

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

Universal press fixture

G940-00733-00

Universal disassembly fixture V3 - base

G940-00873-00

Alternate part numbers: G980-1551-00, G90-00734-00

Spare universal device clip #1

G940-00876-00

Universal press plate 12 mm

G940-00736-00

Universal holder

G940-00834-00
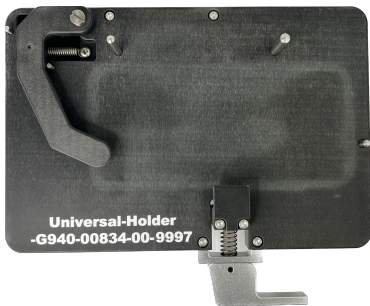
Universal base 12 mm

G940-00833-01

Universal holder limiting block

G940-00835-00

Universal supporting rubber

G940-00804-00

Pixel 10 Pro XL battery press rubber

G940-01031-00

Pixel 10 Pro XL BG press rubber

G940-01032-00

Pixel 10 Pro XL CG press rubber

G940-01033-00

Pixel 10 Pro XL thermal grease alignment fixture

G940-01036-00

⚒ Tools and fixtures

Standard tools

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

ESD wristband	ESD mat	ESD spudger
		Plastic
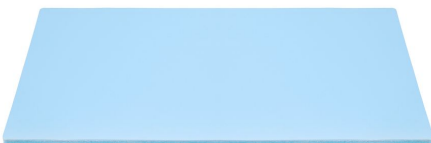
ESD tweezers	Opening pick	Large suction cup
Plastic	Plastic	Approximately 5 cm diameter

Screwdriver	Adjustable torque screwdriver	SIM card ejection pin
Hex shank torx plus bit 3	Hex shank torx plus bit 3	

Heat plate	Absorption-bulb	Small suction cup

⚒ Tools and fixtures
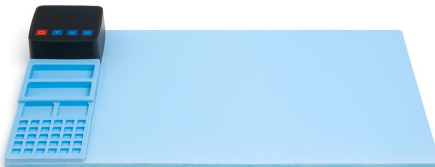
Standard consumables

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

IPA	3M AP111 primer

Sankol lubricant
CFD 409Z_v2

Anti-static ESD gloves

Finger cots

Dust-free cotton swabs

Dust-free cloth

Protective film

⚒ Tools and fixtures

Safety items

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

Safety glasses	Heat resistant protective gloves	Cut resistant protective gloves	Nitrile or lint-free gloves	Sand bucket

Replacement parts

Important notice about replacement parts

- The use of Google-authorized replacement parts is strongly recommended.

- If Google-authorized replacement parts are not used then performance within product specifications can't be assured.

⚠️ **Use caution**

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

Replacement parts

Reuse indications   🟢 Reusable without cleaning   🔵 Reusable after cleaning   ⚫ Not reusable after disassembly

Logic board
Multiple part numbers
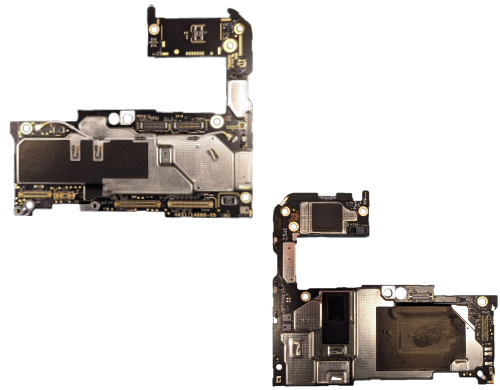
Display module
G949-01360-00

BG sub
Multiple part numbers

Enclosure
Multiple part numbers

Chin board
G949-01377-00
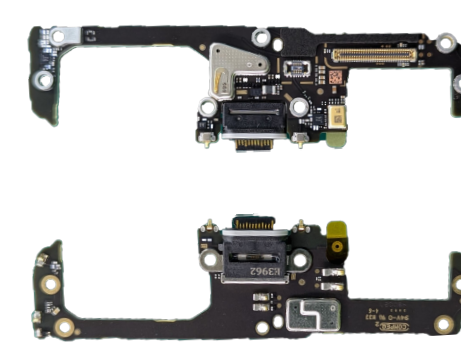
ANT4 board
G949-01378-00

Front camera
G949-01379-00
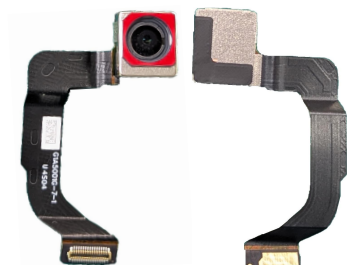
RCAM
G949-01380-00

SPAM flex
G949-01381-00

CJ flex
G949-01382-00

mmWave module
G949-01383-00
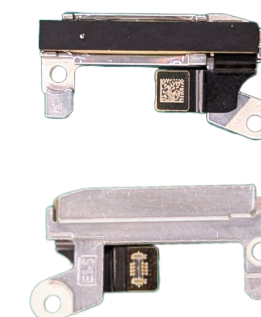
Battery
G949-01616-00

Replacement parts

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

Display adhesive ● G806-15948-01	**BG adhesive** ● G806-15981-01

Display adhesive ●
G806-15948-01

BG adhesive ●
G806-15981-01

P-sensor foam ●
G806-13064-01

Top speaker pad ●
G806-11577-00

DJ flex PSA ●
G806-14563-01

Vibrator ●
G710-07500-00

Bottom speaker ●
G863-00655-01
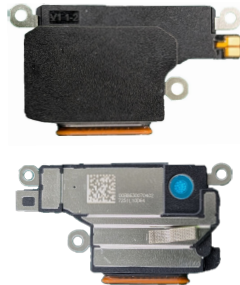
Top speaker ●
G863-00688-01

RJ flex ●
G652-10612-01

DJ flex ●
G652-10410-04

SIM tray_sub6 ●
Multiple part numbers
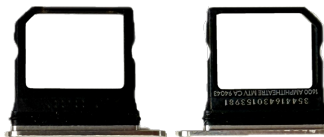
Coaxial cable ●
G821-01174-02

Replacement parts

Reuse indications   ● Reusable without cleaning   ● Reusable after cleaning   ● Not reusable after disassembly
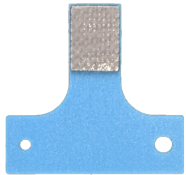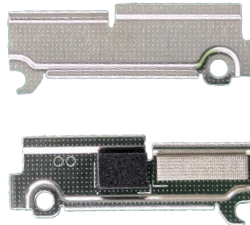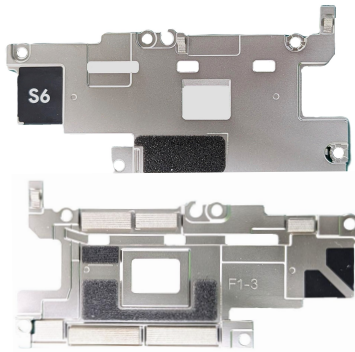
Thermal TIM ●	Thermal pad_mmWave ●	COAX cowling_Sub6 ●	BG cowling ●	MLB cowling ●	Display cowling ●
G864-01063-01	G864-01053-01	G850-00697-01	G730-09327-03	G730-09325-14	G730-09238-01
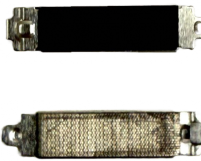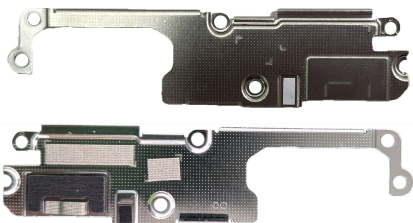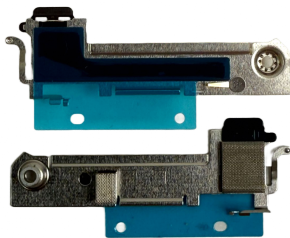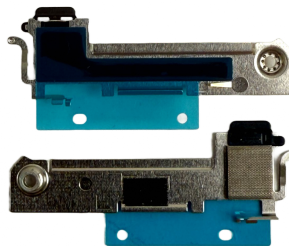
CLB cowling ●	ANT4 cowling ●	FCAM cowling_mmWave ●	FCAM cowling_Sub6 ●	Screw ●	Screw ●
G730-09320-01	G730-09426-02	G730-09322-01	G730-09322-11	G250-07839-04	G250-07891-04

Replacement parts

Reuse indications   🟢 Reusable without cleaning   🔵 Reusable after cleaning   ⚫ Not reusable after disassembly

Screw
G250-08169-03 ⚫

Screw
G250-07839-03 ⚫

Screw
G250-08246-05 ⚫

Material expires
Thermal grease*
G160-01459-00
G160-01481-00 ⚫

Vibrator PSA
G806-13155-00 ⚫

SPAM flex PSA
G806-16166-00 ⚫

CJ flex PSA
G806-14188-01 ⚫

Top speaker adhesive
G806-13668-01 ⚫

FCAM CPSA
G806-14192-01 ⚫

Mic3 mesh
G806-15772-01 ⚫

FoF
G806-11578-00 ⚫

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 is not acceptable.**
SBOM	**Service Bill Of Materials**

Glossary

Acronym or term	Definition
Display module	The OLED, glass cover, and sometimes other components such as the fingerprint sensor. Also known as: Cover Glass (CG) screen display
Logic board	The main electronic component in the device with the processor, memory, storage, and often Wi-Fi and bluetooth components all soldered on. Also known as: MLB main logic board main board PCBA
Microphone	The component used to capture audio to make a call, video, or dictate some notes. Also known as: mic mic 1 bracket
Enclosure	The housing that contains the buttons and provides protection for the logic board and other components. Also known as: Housing (HSG) rear cover back cover bottom case Back Glass (BG)
LDI	**Liquid Damage Indicator** An indicator that turns from white into another color, typically red, after contact with water. Also known as: Liquid damage indicator LDI

Glossary

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

Pixel 10 Pro XL repair manual

Repair flows

Disassembly order

Assembly order

Pixel 10 Pro XL-disassembly flowchart

⊢▶ To be removed before next process   ⊢▷ Optional to remove   🟢 Reusable without cleaning   🔵 Reusable after cleaning   ⚫ Not reusable after disassembly

Back glass → Front camera → Logic board → Enclosure

Front camera → mmWave module → ANT4 board

Logic board → Rear camera → Top speaker → Chin board → Bottom speaker → Vibrator

Back glass → Battery

Display → Display cowling
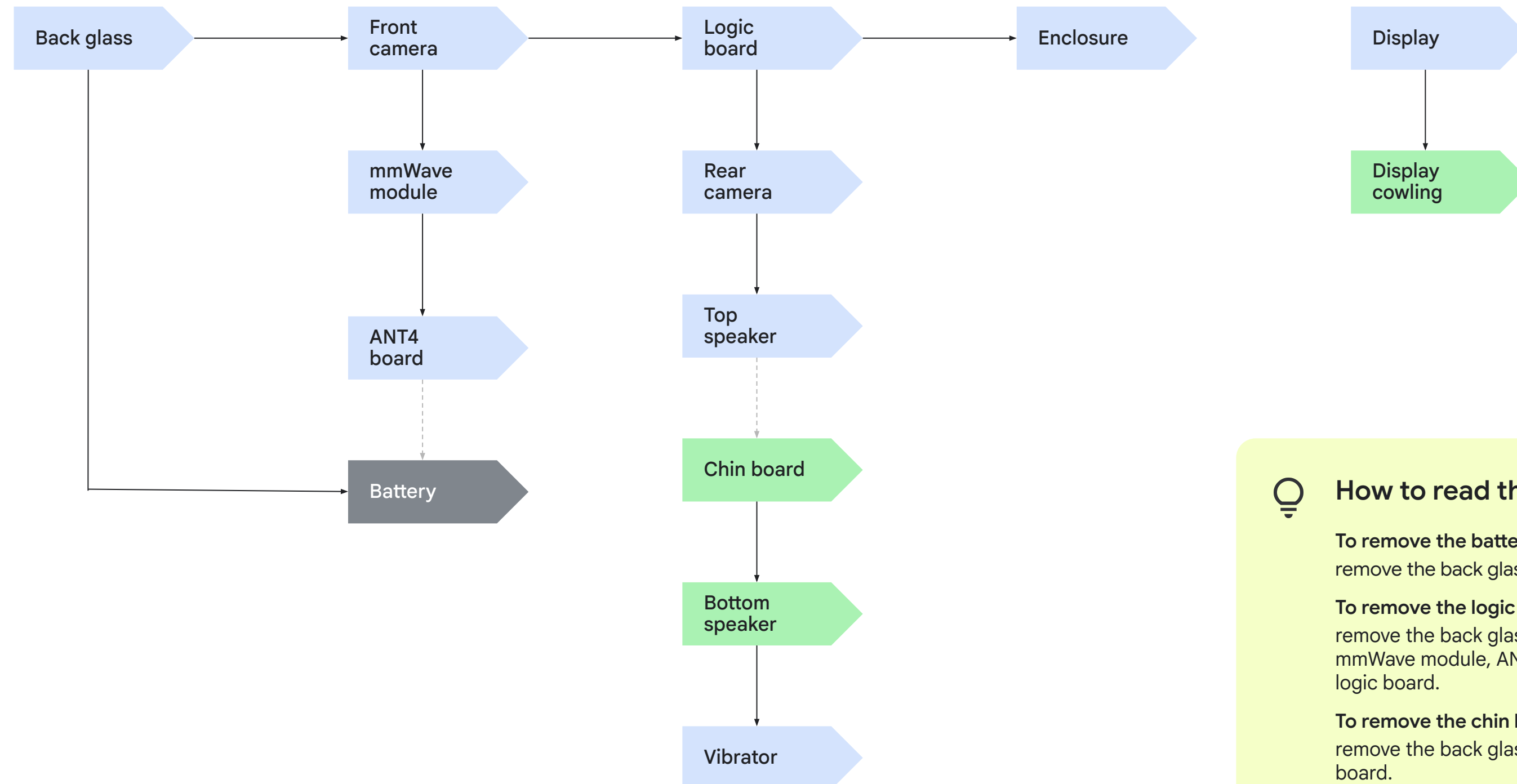
How to read this chart

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

To remove the logic board:
remove the back glass, front camera, mmWave module, ANT4 board, then the logic board.

To remove the chin board
remove the back glass, then the chin board.

Pixel 10 Pro XL-assembly flowchart

● Assembled without a fixture   ● Assembled with a fixture

Enclosure → Logic board → Vibrator → Battery → Back glass

Enclosure ↓ Top speaker ↓ RCAM

Logic board ↓ ANT4 board ↓ mmWave module ↓ Front camera

Vibrator ↓ Bottom speaker ↓ Chin board

Back glass ↓ Display ↓ Display cowling
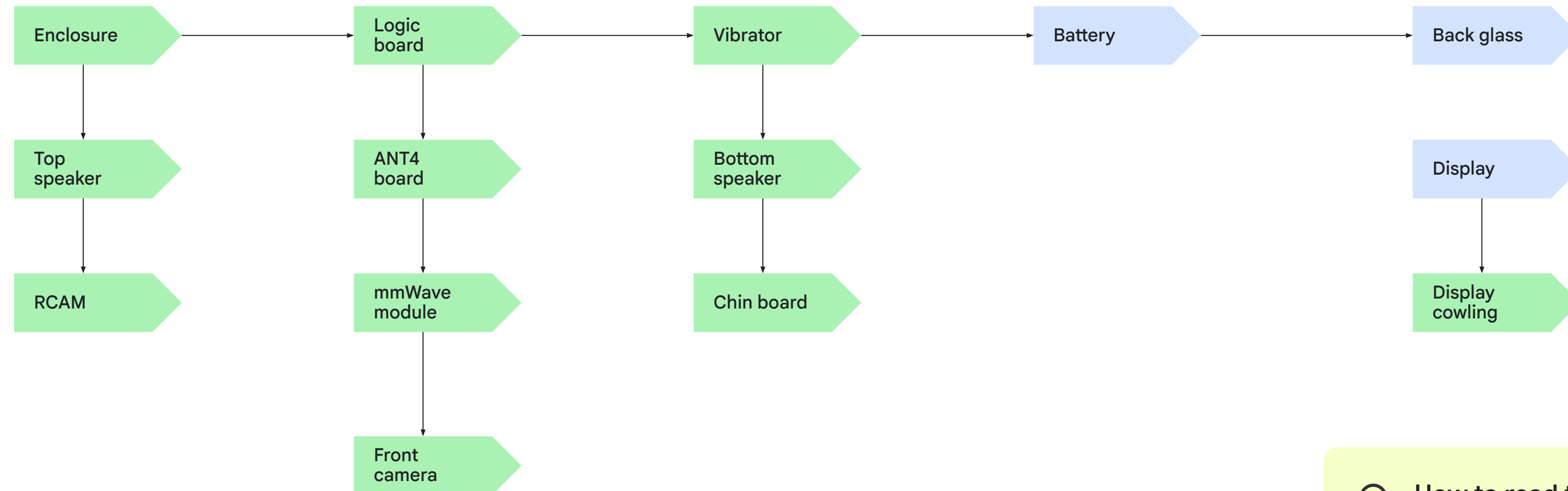
How to read this chart

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

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

Pixel 10 Pro XL repair manual

Disassembly

Display	Battery	Bottom speaker
BG sub	Logic board	Vibrator
FCAM	RCAM	Enclosure
mmWave module	Top speaker	
ANT4 board	Chin board	

Disassembly instructions

Display

The display module is connected to the chin board. Be careful with the flex when you open the device as the display module is connected to the chin board.

⚠ Use caution

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

Apply protective film to broken glass before removal.

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

✓ Prerequisites

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

🛠 Tools

Heat plate

Universal disassembly fixture V3

Universal base 12 mm

Universal holder

Universal holder limiting block

Universal press plate 12 mm

Universal press fixture

Pixel 10 Pro XL BG press rubber

Pixel 10 Pro XL CG press rubber

Absorption-bulb

ESD tweezers

ESD spudger

3M AP111 primer

Dust-free cotton swabs

IPA and cloth

⚒ Parts

Display

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

Display module
G949-01360-00
🔵

Display adhesive
G806-15948-01
⚫

DJ flex PSA
G806-14563-01
⚫

Display cowling
G730-09238-01
🟢
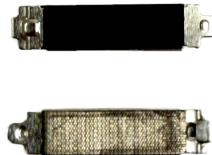
Soften the adhesive

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

⚠️ **Use caution**

The heat plate is hot and could cause burns.

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

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

💡 **Note**

Don't heat the visor area.

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

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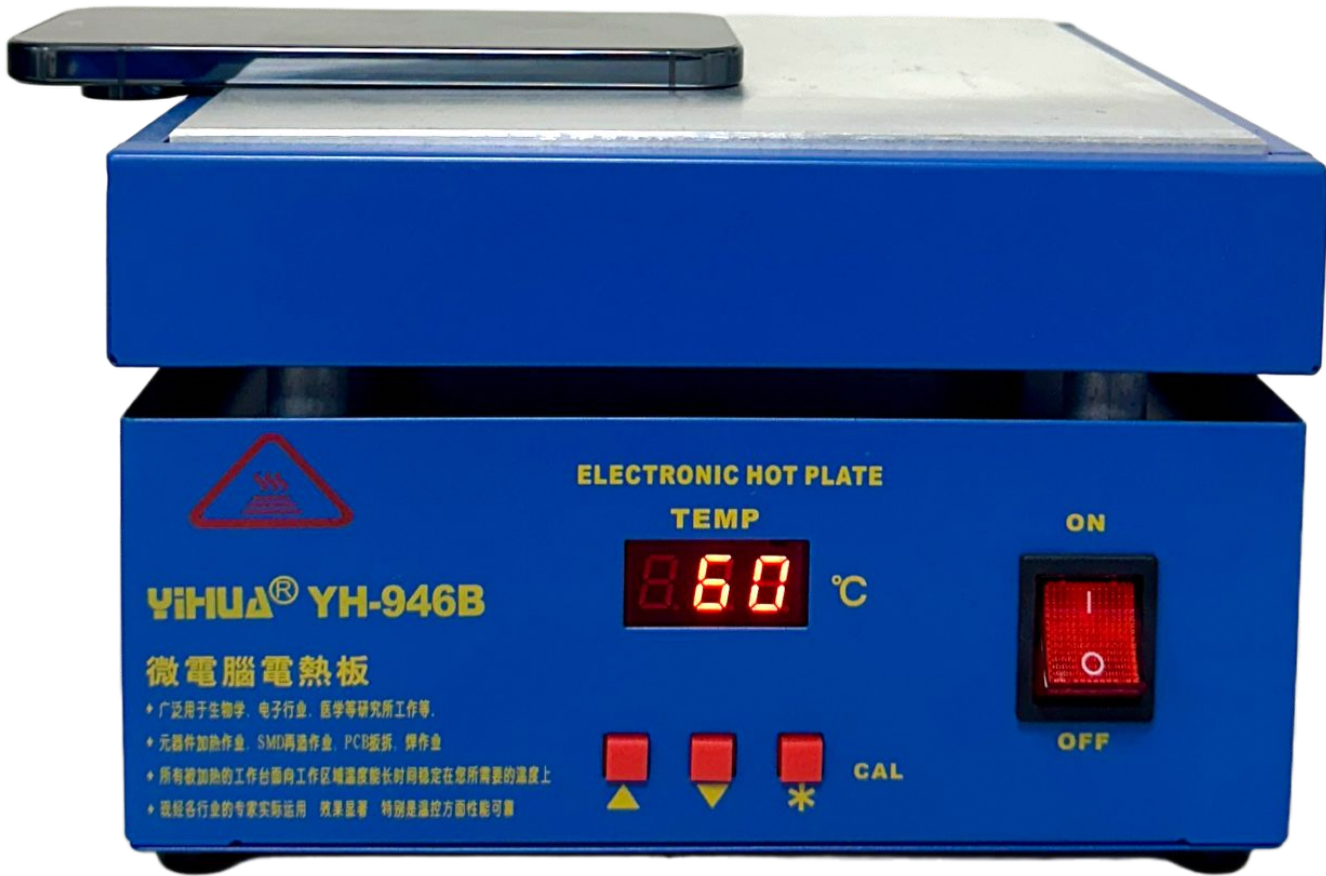
Mark the ESD spudger

- Use the ESD spudger to carefully separate the **display** from the **enclosure**.

- Measure **4 mm** from the tip and mark the **ESD spudger** with a permanent marker for reference, to ensure clear visibility as adhesive widths vary.

⚠️ **Use caution**

Avoid deep insertion that might damage the device.

4 mm

Length: less than 4 mm
Thickness: less than 1 mm

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

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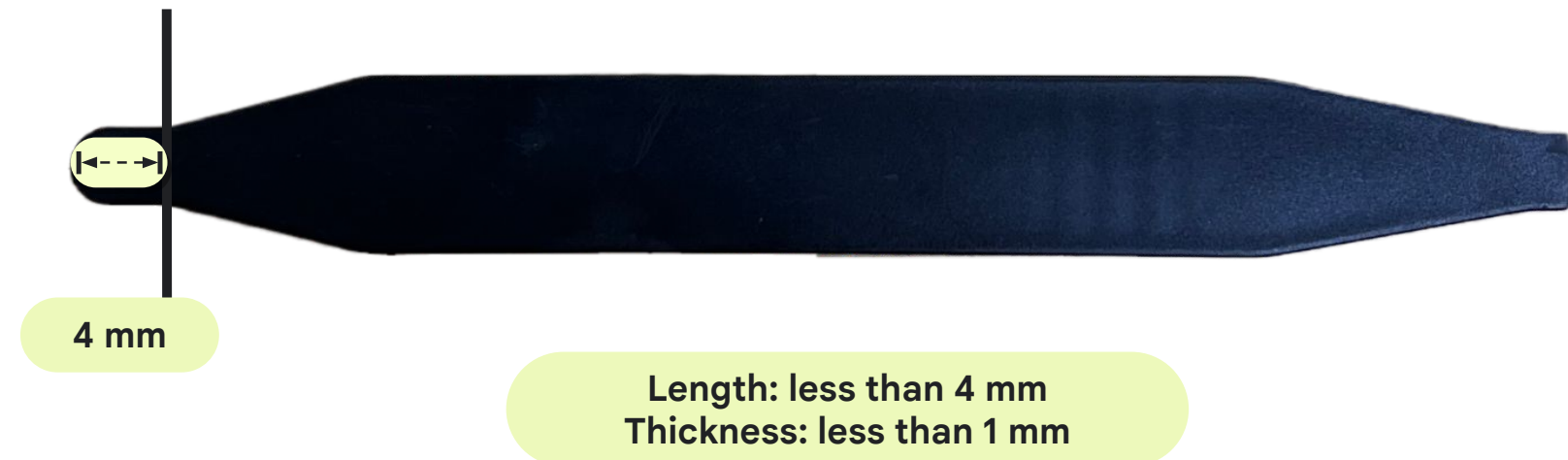
Use the fixture

- Fix the suction cup on the rightmost position as shown in Fig 1.

- Position the device on the holder of the **universal disassembly fixture V3**, to ensure that the phone visor aligns with the edge of the fixture as shown in Fig 2.

Note

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

A groove prevents accidental press of the power button.

Fig 1

USB

Place the power key inside the groove.

Fig 2

Visor that touches the edge of the fixture.

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

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Prepare for disassembly

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

Apply IPA to the top side.

IPA

USB

Universal Device Clip #1-G940-00876-00

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

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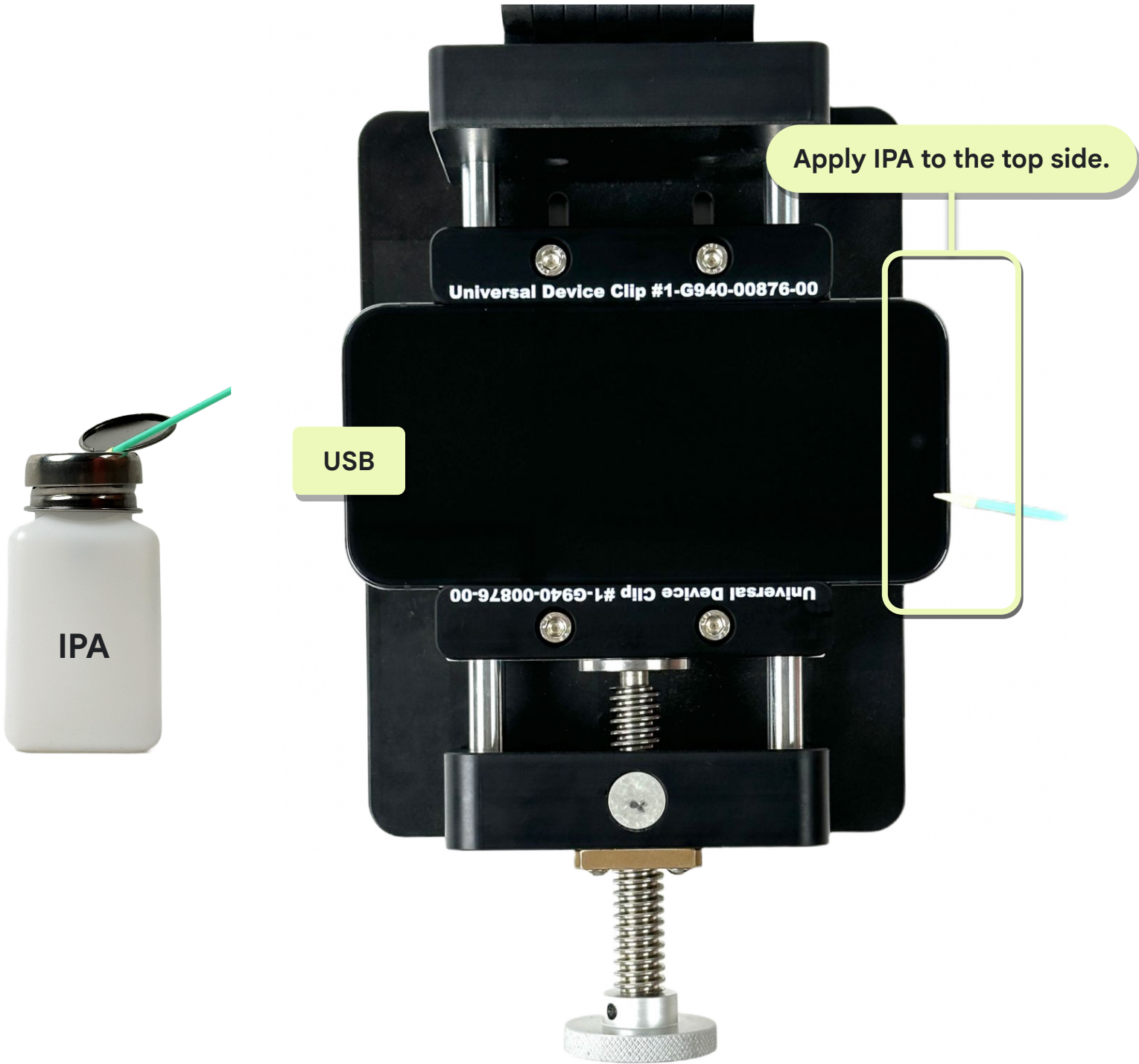
Separate the display

- Close the lid and lift the suction cup as shown in Fig 1.

- Slowly rotate the knob to separate the **display module** from the **enclosure**.

- Use the **ESD spudger** with **IPA** to cut the adhesive off the top side when there's a gap.

- Insert a **release liner** to prevent reattachment as shown in Fig 2.

⚠️ **Use caution**

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

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

Fig 1

Universal-Dssy Fixture V3-Base
-G940-00873-00-9999

Fig 2

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

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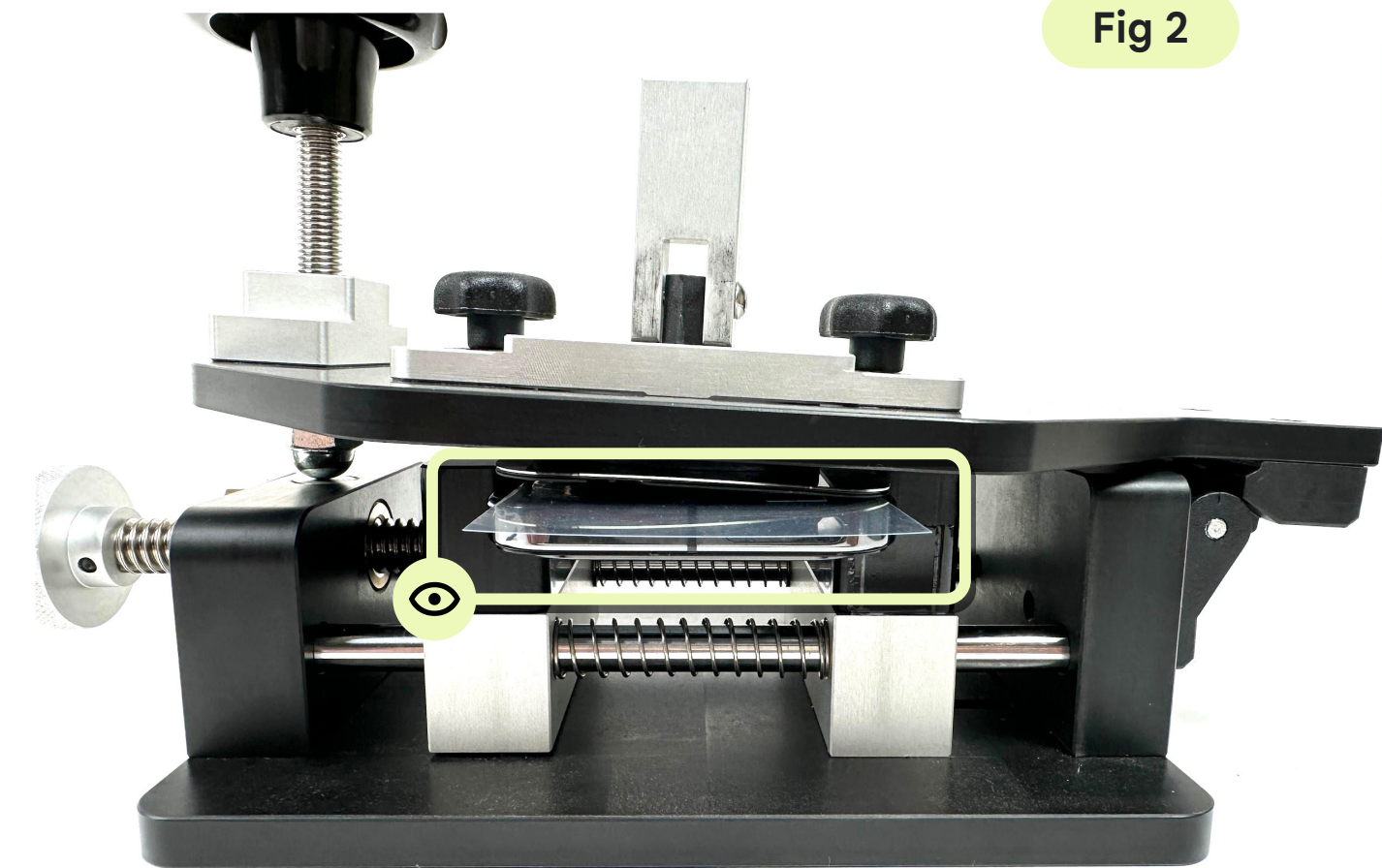
Separate the display adhesive

- Insert the **spudger** into the device's **top side**.

- Remove the device from the **universal disassembly fixture V3**.

- Manually slide the edges with the proper amount of **IPA**.

- Slide it parallel to the display down the left and right sides as shown in Fig 2.

- Pry at a 45 degrees angle on the bottom side to avoid insertion between the display and trim as shown in Fig 3.

Fig 1

Fig 2

Fig 3

⚠ **Use caution**

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

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

💡 **Disassembly sequence**

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

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

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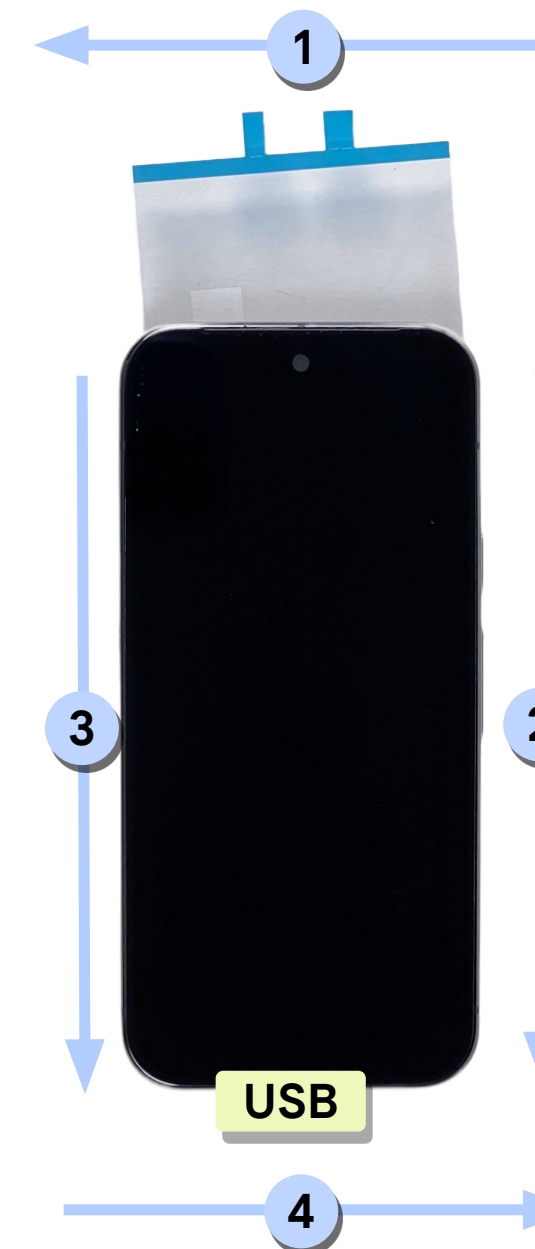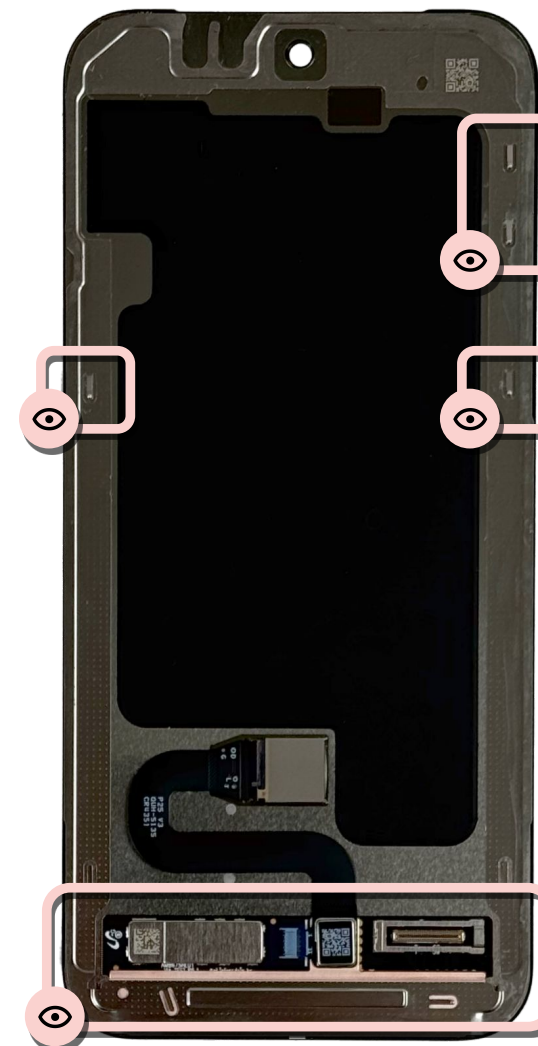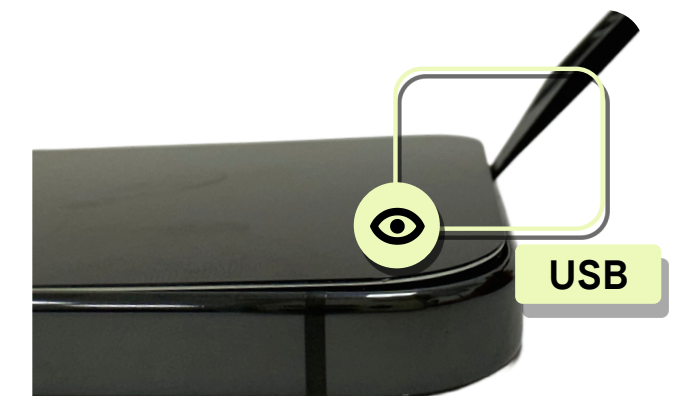
Prop the display

- Use the **absorption-bulb** to hold the **display**.

- Avoid touching the **graphite**.

⚠️ **Use caution**

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

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

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

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

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Remove the cowling

- Gently push the **display cowling** to release the latch.

- Push it to the right with your **hand** to eject it.

Part: G730-09238-01 (display cowling)

Note

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

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

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Finished! Want assembly instructions? ➜

Disconnect the display

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

- Slowly peel off the **DJ flex PSA** manually by pulling DJ flex towards the display connector.

- Remove the **display module**.

Part: **G949-01360-00** (display module)

Part: **G806-14563-01** (DJ flex PSA)

💡 Note

Use an ESD spudger to avoid damage to the components.

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

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Disassembly instructions

BG sub

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

⚠ Use caution

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

✓ Prerequisites

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

⚒ Tools

Universal base 12 mm

Universal holder

Universal holder limiting block

Universal press plate 12 mm

Universal press fixture

Pixel 10 Pro XL CG press rubber

Pixel 10 Pro XL BG press rubber

Absorption-bulb

Small suction cup

Opening pick

Torx plus 3IP screwdriver

ESD tweezers

ESD spudger

3M AP111 primer

Dust-free cotton swabs

IPA and cloth

🛠 Required parts
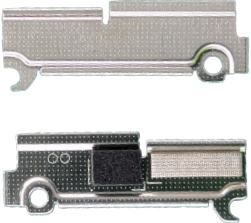
BG sub

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

Reuse indications 🟢 Reusable without cleaning   🔵 Reusable after cleaning   ⚫ Not reusable after disassembly

BG sub 🔵	BG adhesive ⚫	BG cowling 🟢	Screw ⚫
Multiple part numbers	G806-15981-01	G730-09327-03	G250-08169-03

Mark the opening pick

Measure **4 mm** and **2 mm** from the tip and mark the **opening pick**.

⚠️ **Use caution**

Ensure proper marking to minimize damage.

A thicker opening pick might crack the back glass.

4 mm

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

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

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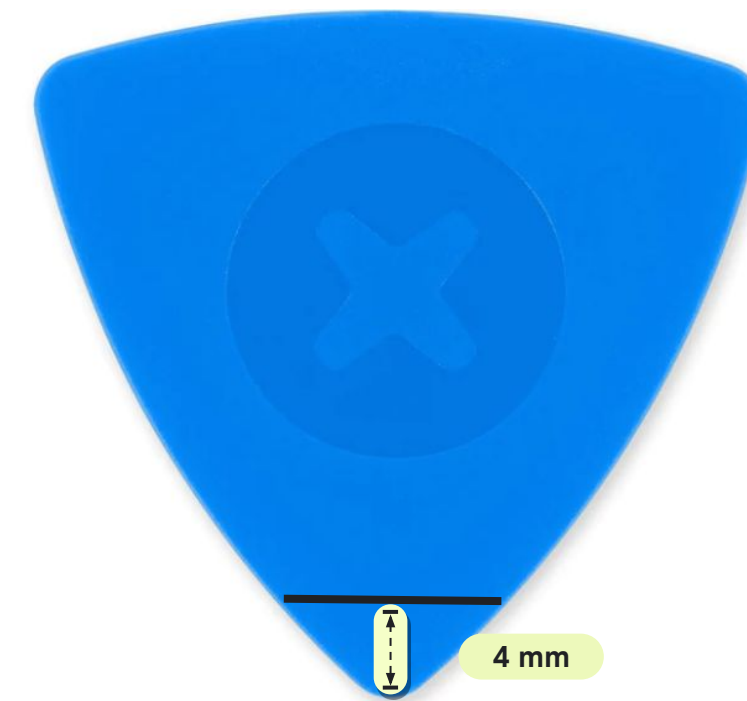
Apply the small suction cup

Place a **small suction cup** close to the **USB side**.

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

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Separate the BG

- Hold the device with one hand and pull up the **small suction cup** firmly with the other until a gap forms between the **BG** and the **enclosure**.

- Insert the **opening pick** and align it with the **4 mm** mark.

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

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

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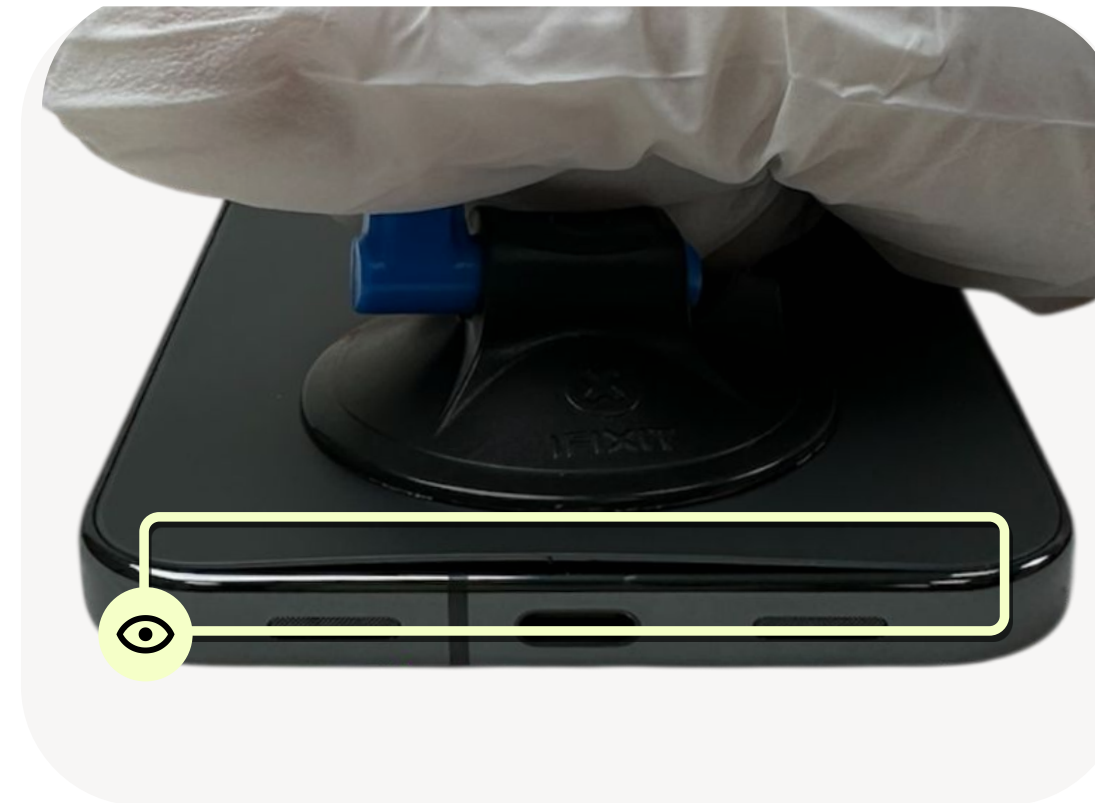
Separate the BG adhesive

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

💡 **Disassembly sequence**

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

⚠️ **Use caution**

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

40 mm

15 mm

A

2

3

A

👁

4

1

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

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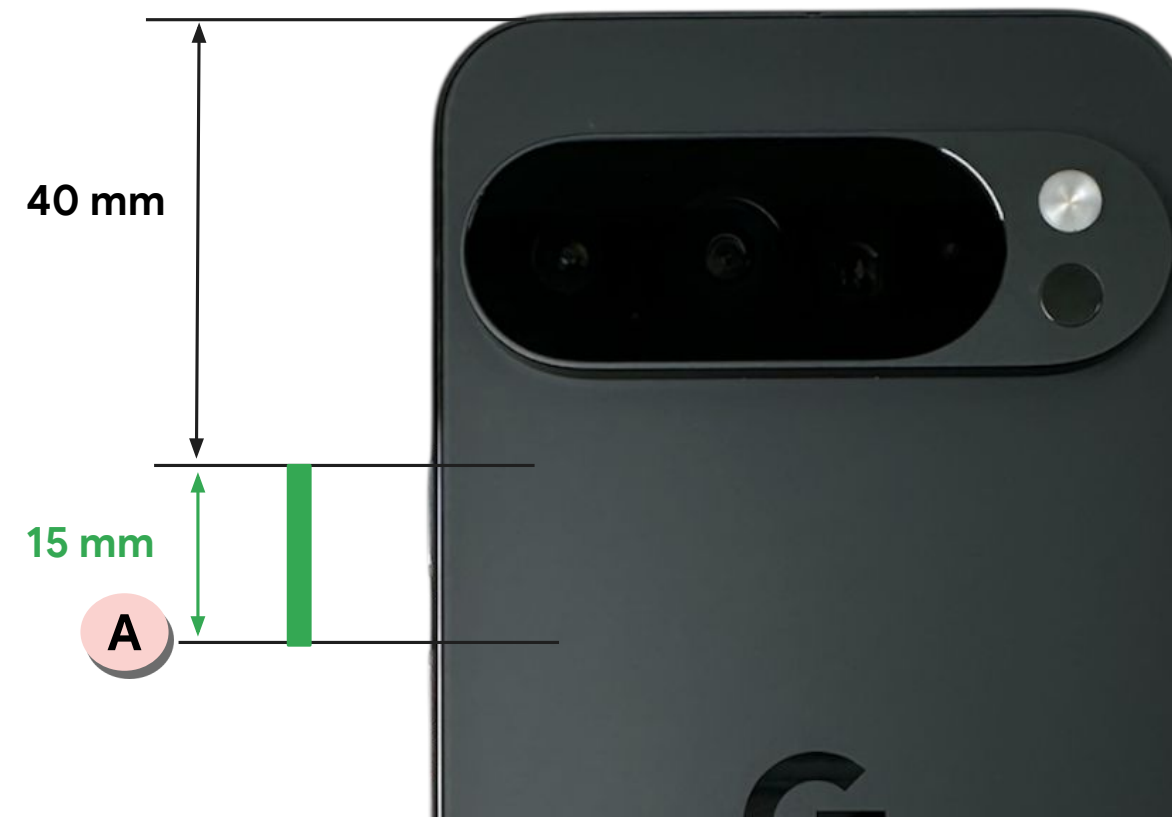
Remove the BG cowling

- Use the **absorption-bulb** to hold the **BG**.

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

- Remove the **BG cowling** with **ESD tweezers**.

Part: G250-08169-03*2 (screw)

Part: G730-09327-03 (BG cowling)

⚠️ **Use caution**

Be careful when you use the screwdriver.

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

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

💡 **Note**

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

Don't **reuse the screws.**

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

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Finished! Want assembly instructions? ➜
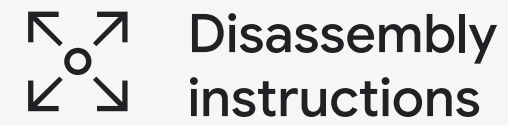
Remove the BG sub

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

- Remove the **BG sub**.

Part: **multiple part numbers** (BG sub)

Note

Use the ESD spudger to avoid damage to the components.

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

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Disassembly
instructions

Front camera

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

⚠ Use caution

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

✓ Prerequisites

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

- **BG sub**

⚒ Tools

Torx plus 3IP screwdriver

ESD spudger

ESD tweezers

IPA and cloth

⚒ Required parts
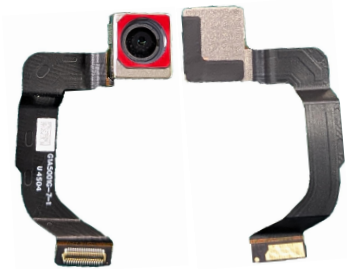
Front camera

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

Reuse indications   🟢 Reusable without cleaning   🔵 Reusable after cleaning   ⚫ Not reusable after disassembly
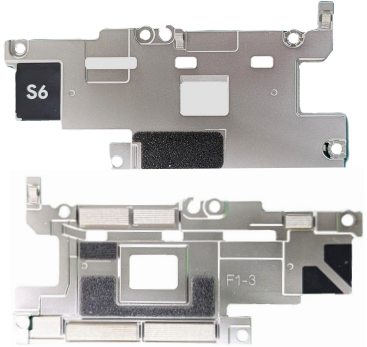
Front camera
G949-01379-00
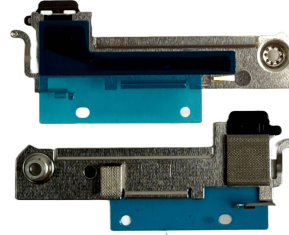
FCAM CPSA
G806-14192-01
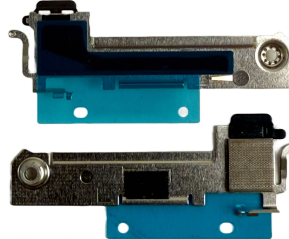
MLB cowling
G730-09325-14

FCAM cowling_mmWave
G730-09322-01

FCAM cowling_Sub6
G730-09322-11

Screw
G250-08246-05

Screw
G250-07891-04

Remove the MLB cowling

- Remove the **four MLB cowling screws** with a **torx plus 3IP screwdriver**.

- Remove the **MLB cowling** with **ESD tweezers**.

Part: G250-08246-05*4 (screw)

Part: G730-09325-14 (MLB cowling)

⚠️ **Use caution**

Be careful when you use the screwdriver.

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

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

💡 **Note**

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

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

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Remove the screw

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

Part: G250-07891-04 (screw)

⚠️ **Use caution**

Be careful when you use the screwdriver.

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

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

💡 **Note**

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

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

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Remove the FCAM cowling

- Hold an **ESD spudger** against the **hook**.

- Push the **FCAM cowling** upward to remove the **FCAM cowling**.

Part: G730-09322-01 (FCAM cowling-mmWave)

Part: G730-09322-11 (FCAM cowling-sub6)

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

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

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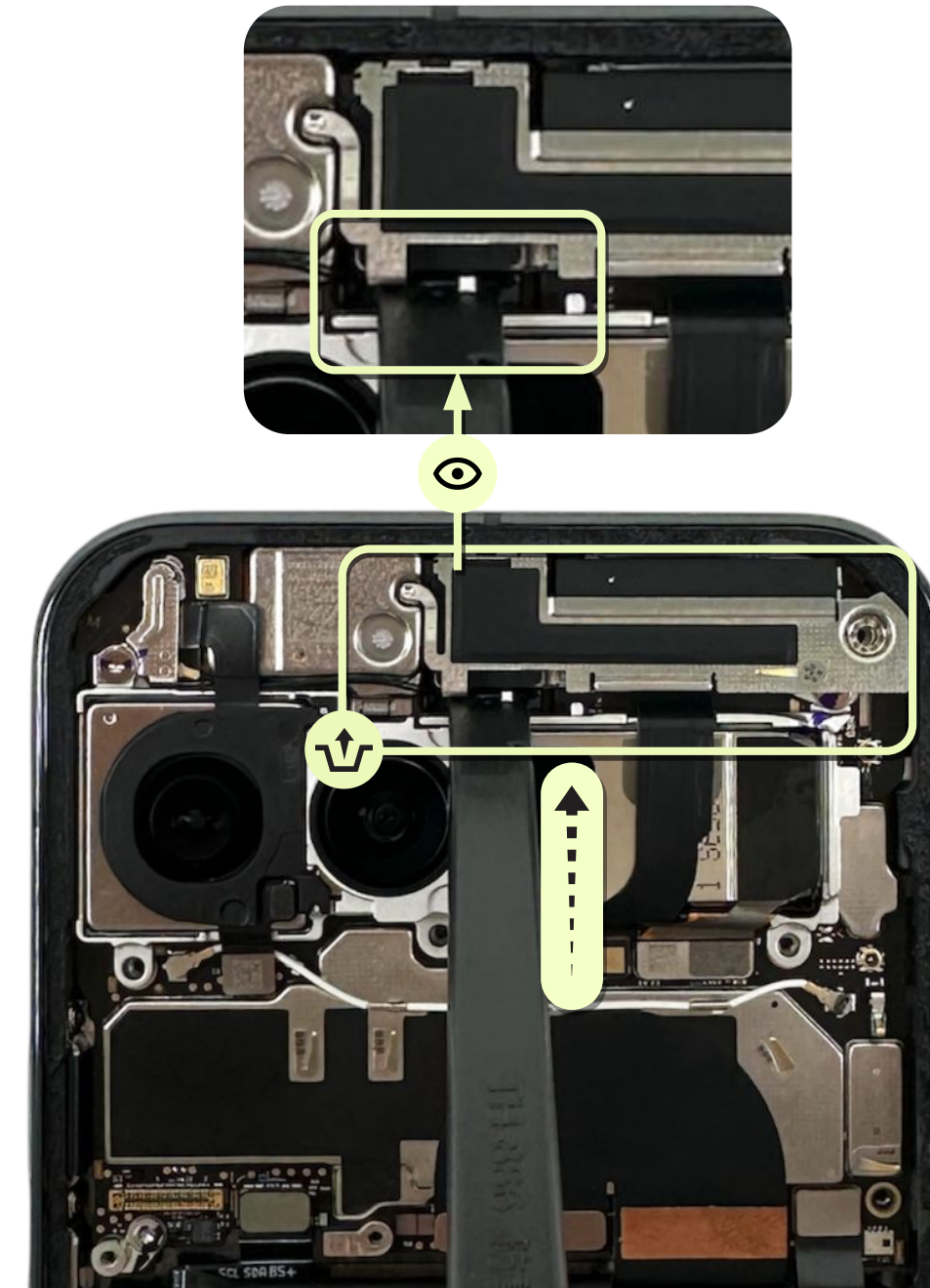
Finished! Want assembly instructions? ➜

Remove the front camera

- Detach the **FCAM connector** with an **ESD spudger**.

- Remove the **front camera** with an **ESD spudger**.
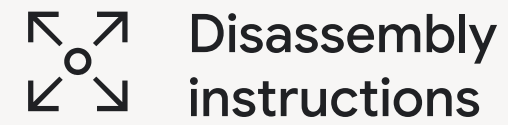
Part: G949-01379-00 (front camera)

⚠️ **Use caution**

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

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

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

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Disassembly
instructions

mmWave module

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

⚠ Use caution

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

✓ Prerequisites

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

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

⚒ Tools

Torx plus 3IP screwdriver

ESD spudger

ESD tweezers

IPA and cloth

🛠 Required parts

mmWave module

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

Reuse indications   🟢 Reusable without cleaning   🔵 Reusable after cleaning   ⚫ Not reusable after disassembly

mmWave module 🔵
G949-01383-00

Thermal pad_mmWave ⚫
G864-01053-01

COAX cowling_Sub6 🟢
G850-00697-01

Screw ⚫
G250-07839-04

Screw ⚫
G250-07891-04

Disconnect the mmWave

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

💡 **Note**

This step is only present for the mmWave SKU.

Use the ESD spudger to avoid damage to the components.

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

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Finished! Want assembly instructions? ➜

Remove the mmWave module or COAX cowling_Sub6

- Remove the **two mmWave module screws or COAX cowling screw** with a **torx plus 3IP screwdriver**.

- Remove the **mmWave module or COAX cowling_Sub6** with **ESD tweezers**.

Part: **G250-07839-04** (screw)

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

Part: **G949-01383-00** (mmWave module)

Part: **G850-00697-01** (COAX cowling_Sub6)

⚠ ## Use caution

Be careful when you use the screwdriver.

Don't damage the adjacent battery.

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

💡 ## Note

Don't reuse the screws.

mmWave SKU

A: G250-07839-04   **B: G250-07891-04**

Sub6 SKU

A: G250-07839-04*2

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

Disassembly
instructions

ANT4 board

⚠ Use caution

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

⊘ Prerequisites

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

- **BG sub**

⚒ Tools

Torx plus 3IP screwdriver

ESD tweezers

ESD spudger

IPA and cloth

🛠 Required parts

ANT4 board

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

Reuse indications
- 🟢 Reusable without cleaning
- 🔵 Reusable after cleaning
- ⚫ Not reusable after disassembly

ANT4 board
G949-01378-00 🔵

Coaxial cable
G821-01174-02 ⚫

ANT4 cowling
G730-09426-02 🟢

Screw
G250-07891-04 ⚫

Mic3 mesh
G806-15772-01 ⚫

Remove the ANT4 cowling

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

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

Part: G250-07891-04 (screw)

Part: G730-09426-02 (ANT4 cowling)

⚠️ **Use caution**

Be careful when you use the screwdriver.

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

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

💡 **Note**

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

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

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Disconnect the SPAM

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

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

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

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Remove the coaxial cable

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

- Remove the **coaxial cable**.

Part: G821-01174-02 (coaxial cable)

⚠️ **Use caution**

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

💡 **Note**

Don't **reuse the part.**

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

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Remove the screw

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

Part: G250-07891-04 (screw)

⚠️ Use caution

Be careful when you use the screwdriver.

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

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

💡 Note

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

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

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Finished! Want assembly instructions? ➔

Remove the ANT4 board

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

Part: G949-01378-00 (ANT4 board)

💡 **Note**

Use the ESD spudger to avoid damage to the components.

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

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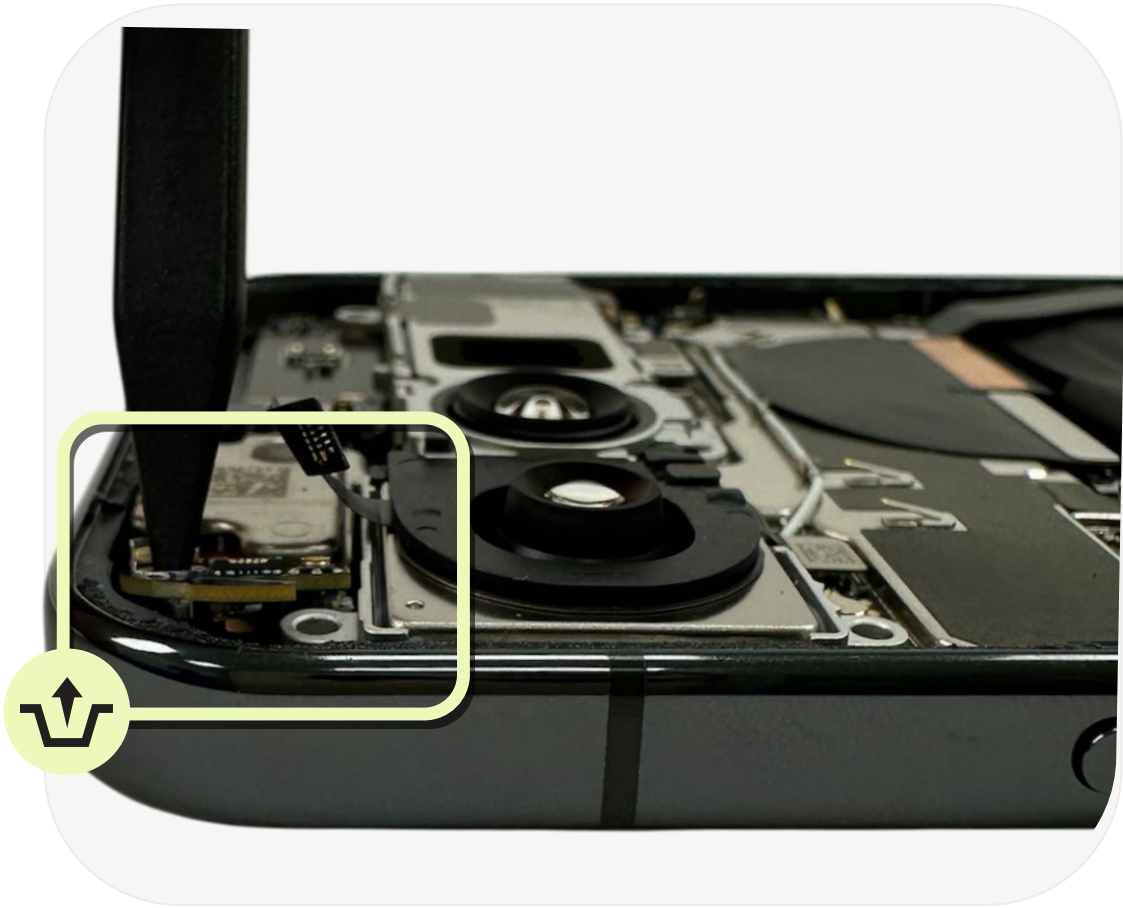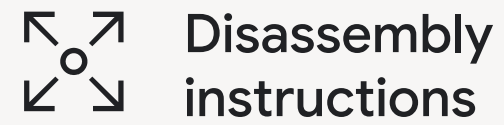
Disassembly
instructions

Battery

Use caution

Use caution if you engage in repair.

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

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

Battery handling

- Never bend, dent, puncture, or use tools to pry the battery.

- Store batteries in the replacement part packaging as soon as possible after removal to prevent damage.

- If a battery begins to vent, cover it in sand or use gloves and tongs to place the battery in a fire safe container as soon as possible.

- Take care to prevent shorting of battery terminals or battery damage, as it could cause fire or overheating.

- Dispose of the battery in accordance with 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 that the phone battery shows signs of swelling, damage. If the phone feels hot or emits a strong odor, *don't* attempt disassembly. Reach out to Google customer support.

- Take care not to expose the phone or its components to liquids after disassembly.

Disassembly
instructions

Battery

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

Use caution

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

Prerequisites

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

- **BG sub**

Tools

Universal base 12 mm

Universal holder

Universal holder limiting block

Universal supporting rubber

Universal press Plate 12 mm

Universal press fixture

Universal supporting rubber

Pixel 10 Pro XL battery press rubber

Absorption-bulb

3M AP111 primer

Dust-free cotton swabs

Finger cots

IPA and cloth

⚒ Required parts

Battery

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

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

Battery ●	RJ flex ●	CLB cowling ●	Screw ●	Screw ●
G949-01616-00	G652-10612-01	G730-09320-01	G250-07839-03	G250-08246-05

Use caution ⚠

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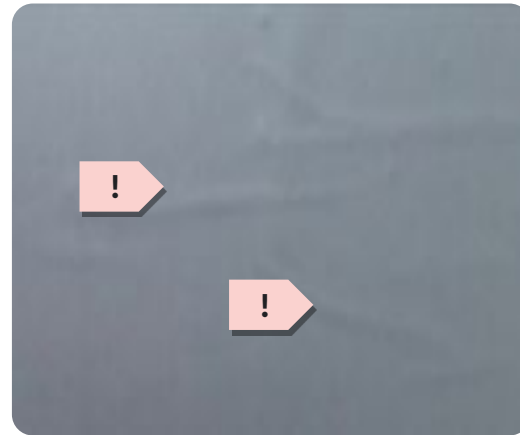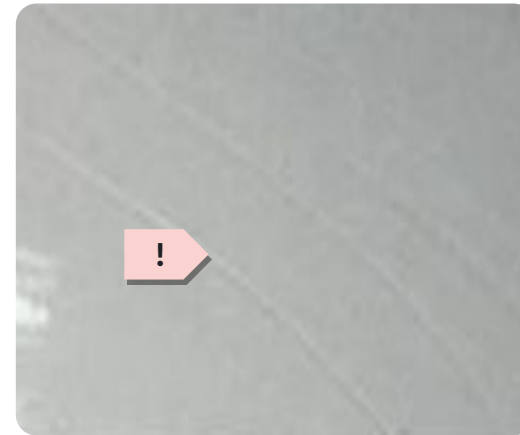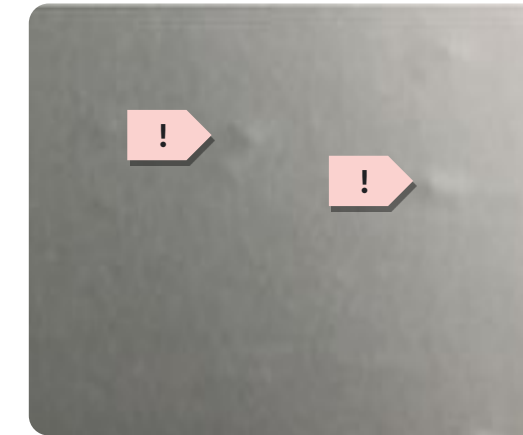
Pouch damage

Line protrusion

Scratch

Contamination mark

Dot protrusion

Dent

Bubbling

Imprinted line
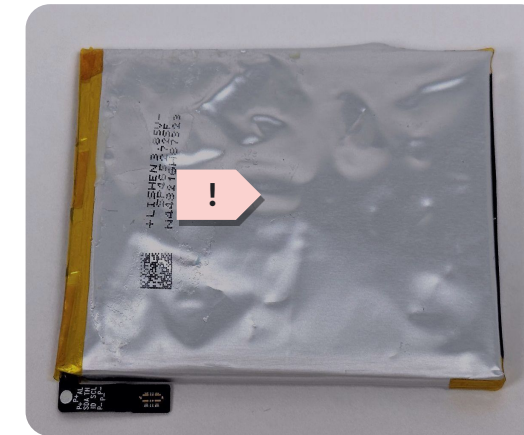
Swelling or electrolyte leakage

*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.

Remove the CLB cowling

- Remove the **RF** and **five CLB cowlings screws** with the **torx plus 3IP screwdriver**.

- Remove the **CLB cowling** with **ESD tweezers**.

Part: G250-08246-05*5 (screw)

Part: G250-07839-03 (screw)

Part: G730-09320-01 (CLB cowling)

⚠️ **Use caution**

Be careful when you use the screwdriver.

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

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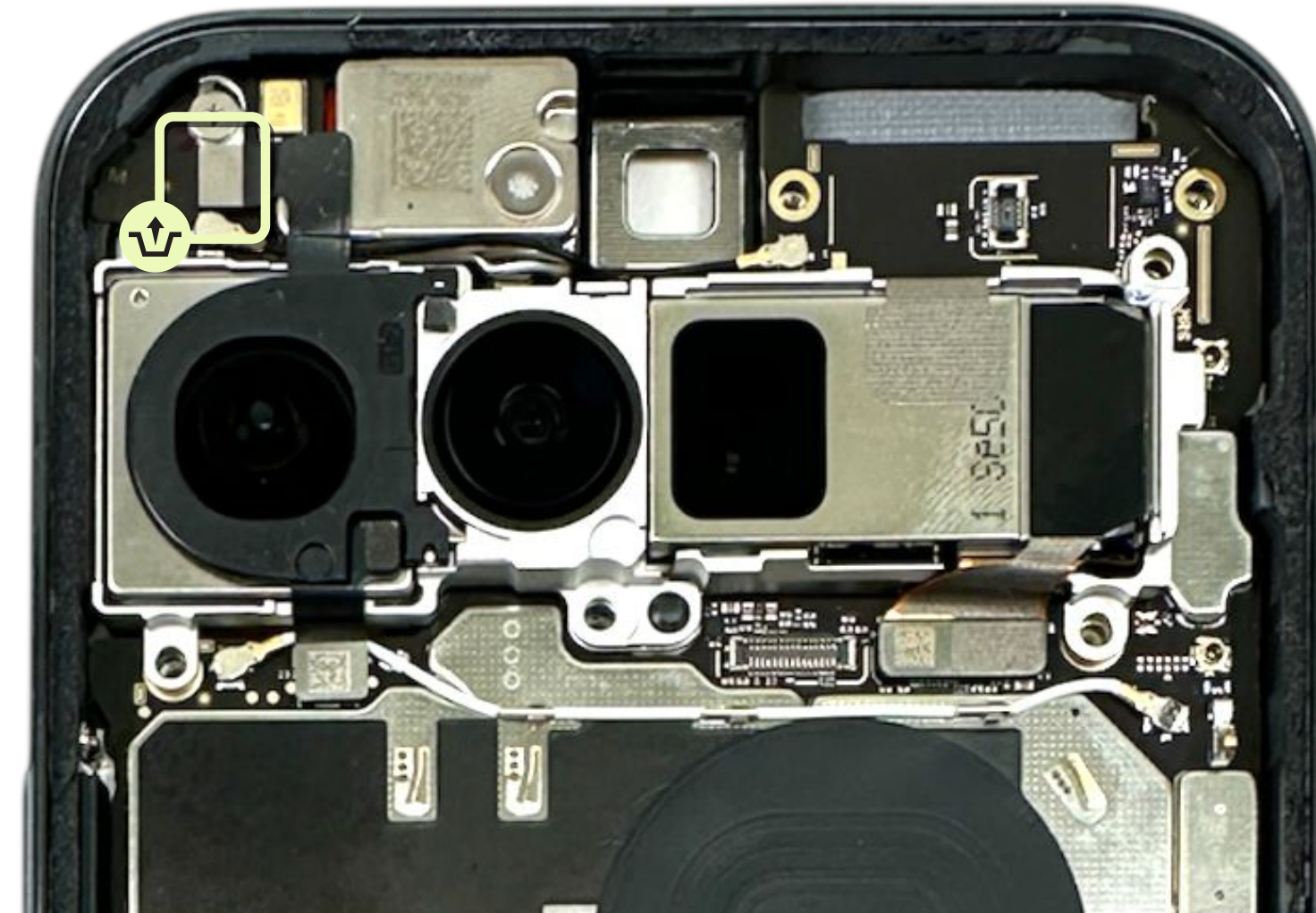
💡 **Note**

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

A: G250-08246-05

B: G250-07839-03

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

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Remove the RJ flex

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

- Remove **RJ flex screw** with a **torx plus 3IP screwdriver**.

- Remove the **RJ flex**.

Part: G652-10612-01 (RJ flex)

Part: G250-07839-03 (screw)

⚠ Use caution

Be careful when you use the screwdriver.

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

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

💡 Note

Don't **reuse the screw.**

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

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Remove the battery

- Wear the **ESD finger cots or gloves** to prevent slipping.

- If needed, use **ESD tweezers** to unstick the **green battery tab**.

- When you hold the device with your left hand, peel open the green battery tab with your right hand as shown in **Fig 1**.

- Make sure to carefully peel off the entire left wing of the battery wrap as shown in **Fig 2**.

Part: G949-01616-00 (battery)

⚠️ **Use caution**

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

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

Fig 1

Fig 2

Display   BG sub   Front camera   mmWave module   ANT4 board   **Battery**   Logic board   Rear camera   Top speaker   Chin board   Bottom speaker   Vibrator   Enclosure
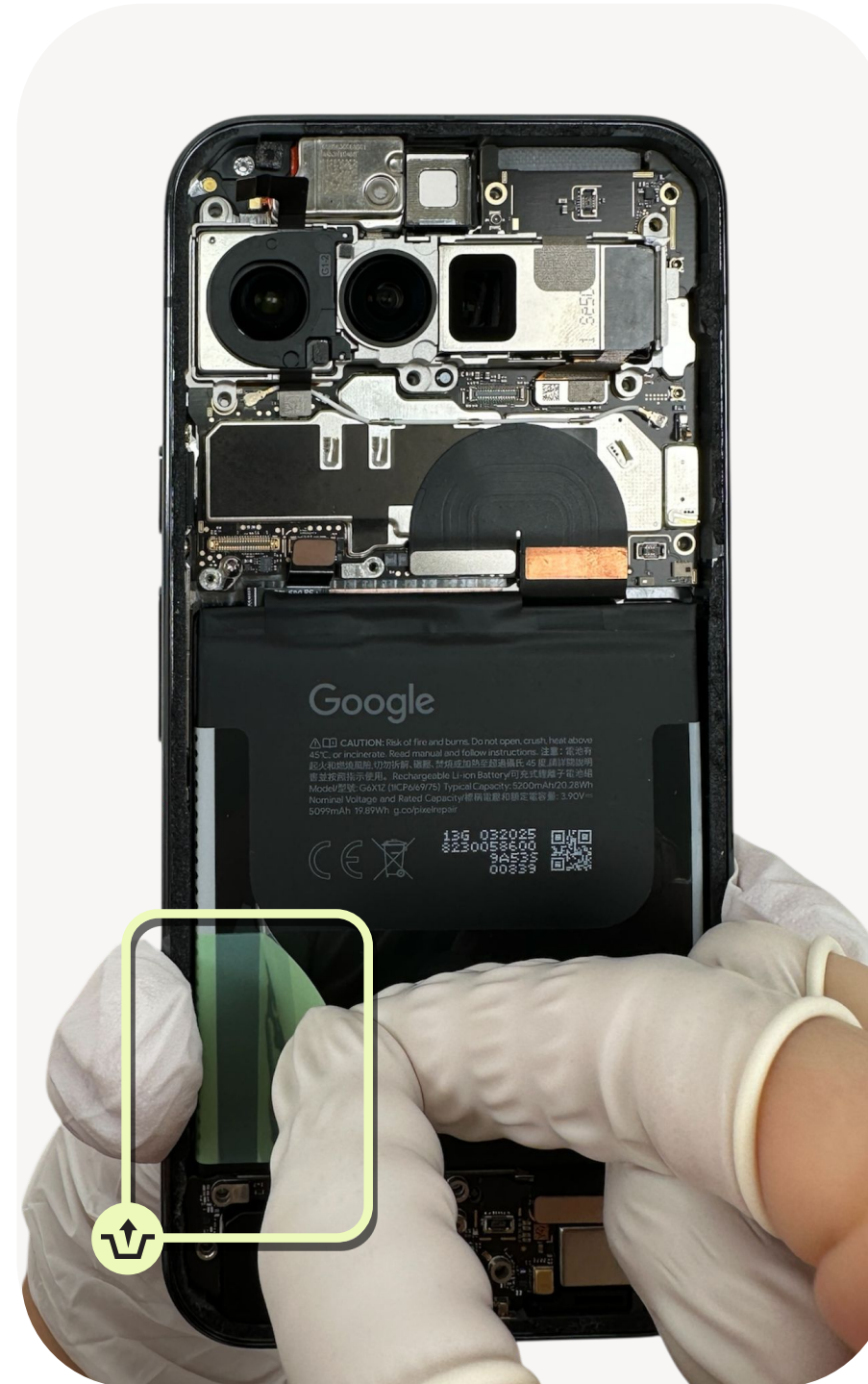
Finished! Want assembly instructions? ➔

Remove the battery

- Hold the device securely with your left hand, with the **left thumb located near the lower bottom speaker**. Grab the green battery tab with your right hand as shown in **Fig 1**.

- Slowly and firmly, pull the tab **perpendicular to the device to lift the left edge of the battery** as shown in **Fig 2**. Pull until you hear the adhesive break.

- Tear battery completely from the back side of the wrap as shown in **Fig 3**.

- While you hold the battery, slowly peel the battery wrap away from the enclosure as shown in **Fig 4**.

- Carefully remove and dispose of the **battery and battery wrap** safely.

Part: G949-01616-00 (battery)

⚠️ **Use caution**

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

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

💡 **Note**

Don't **reuse the part.**

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

Fig 1

Fig 2

Fig 3

Fig 4

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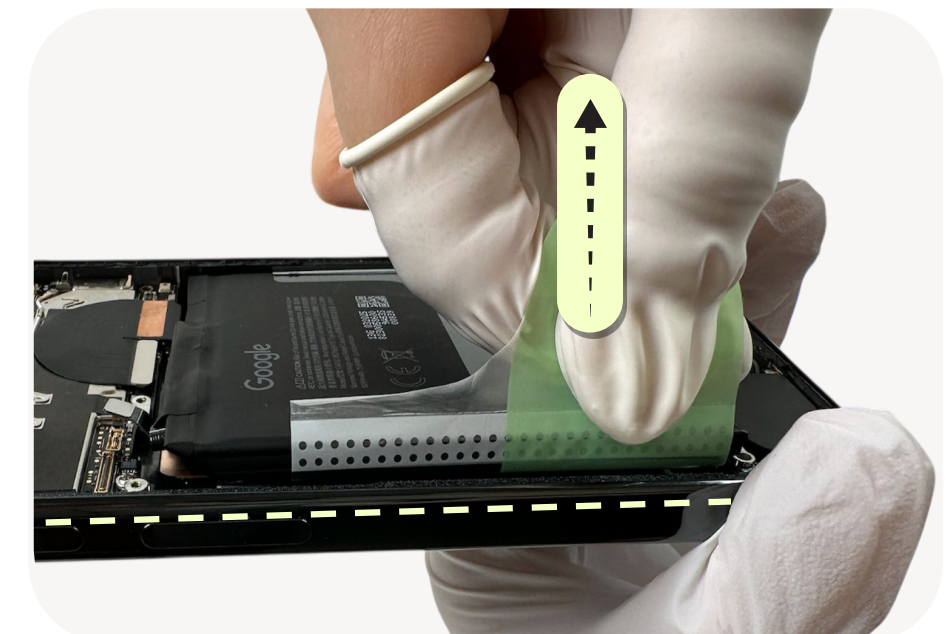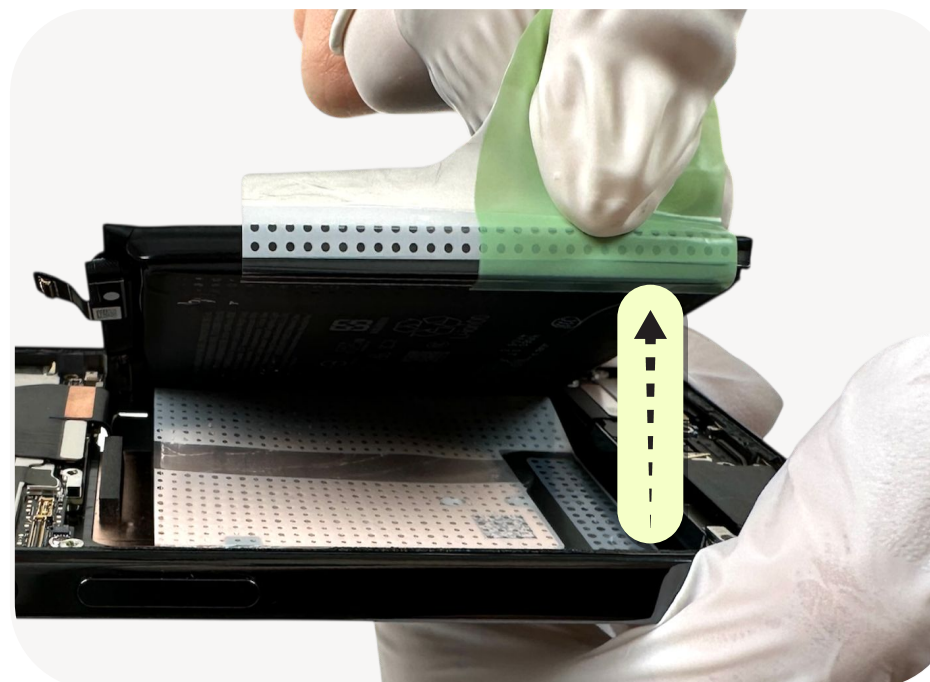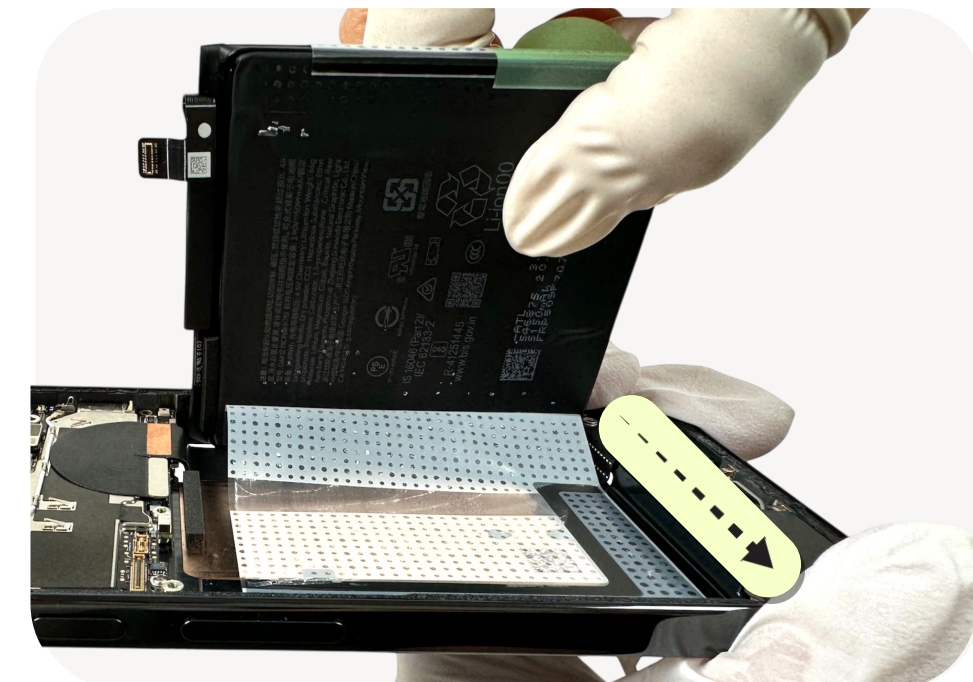
Disassembly
instructions

Logic board

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

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

⚠️ **Use caution**

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

✓ **Prerequisites**

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

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

🛠️ **Tools**

Pixel 10 Pro XL thermal
grease alignment fixture

Torx plus 3IP screwdriver

ESD spudger

ESD tweezers

SIM card ejection pin

IPA and cloth

Dust-free cotton swabs

⚒ Required parts

Logic board

Here's the list of parts for the logic board disassembly:
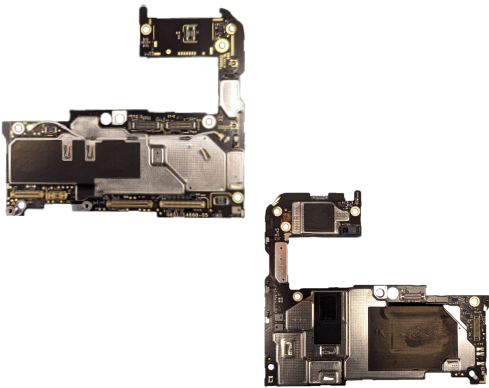
Logic board ● Multiple part numbers	**CJ flex** ● G949-01382-00

P-sensor foam ●
G806-13064-01

DJ flex ●
G652-10410-04

SIM tray_Sub6 ●
Multiple part numbers
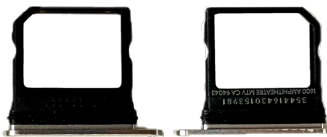
Thermal TIM ●
G864-01063-01
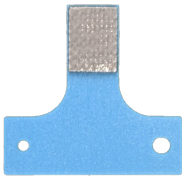
Screw ●
G250-07839-04

*Material expires

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

CJ flex PSA ●
G806-14188-01
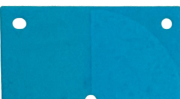
Remove the CJ flex

- Disconnect **two CJ flex connectors** with **ESD spudger**.

- Gently remove the **CJ flex**.

Part: G949-01382-00 (CJ flex)

Part: G806-14188-01 (CJ flex PSA)

> 💡 **Note**
>
> Use an ESD spudger to avoid damage to the components.

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

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Remove the DJ flex

- Disconnect the **DJ flex connector** with **ESD spudger**.

- Gently remove the **DJ flex**.

Part: G652-10410-04 (DJ flex)

Note

Use an ESD spudger to avoid damage to the components.

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

Remove the screw

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

Part: G250-07839-04 (screw)

⚠ Use caution

Be careful when you use the screwdriver.

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

💡 Note

Don't reuse the screw.

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

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Remove the SIM tray

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

> Part: **multiple part numbers** (SIM tray)

> ○ **Note**
>
> This step is only present for the sub6 SKU.

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

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Remove the MLB

Remove the **logic board** with **ESD tweezers**.

Part: **multiple part numbers** (logic board)

⚠ **Use caution**

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

💡 **Note**

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

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

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Finished! Want assembly instructions? ➔

Remove the P-sensor foam

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

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

◯ Note

Don't reuse the part.

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

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

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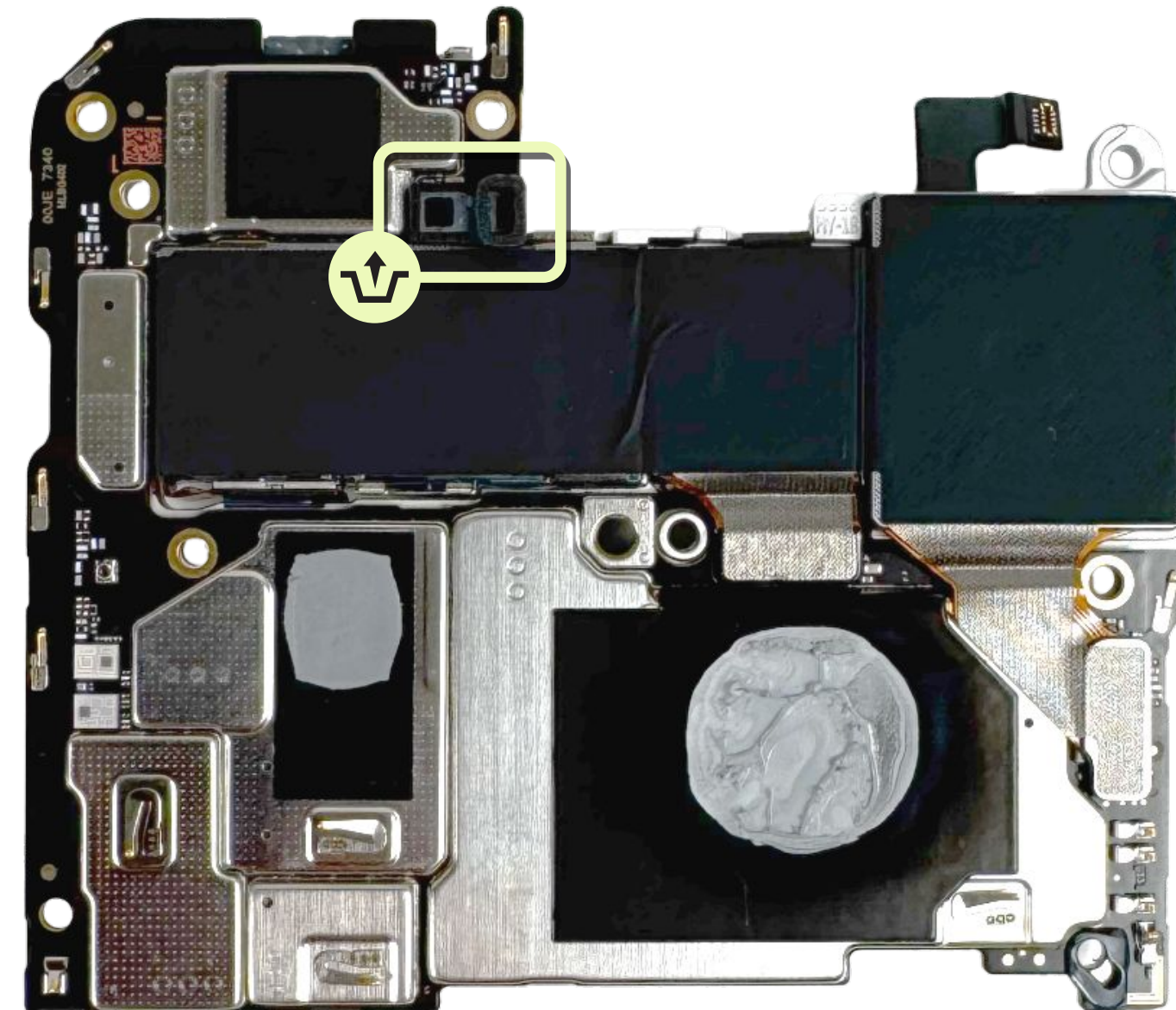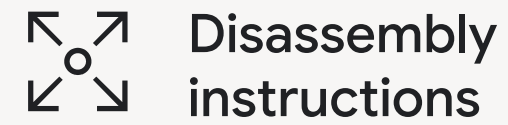
Disassembly
instructions

Rear camera

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

⚠ Use caution

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

⊘ Prerequisites

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

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

⚒ Tools

ESD spudger

ESD tweezers

IPA and cloth

Required parts

Rear camera

Here's the list of parts for the rear camera disassembly:
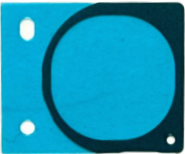
RCAM
G949-01380-00

SPAM flex
G949-01381-00

SPAM flex PSA
G806-16166-00

Remove the rear camera

Fig 1

Fig 2

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

- Remove the **rear camera** with **ESD tweezers** as shown in Fig 3.

Part: G949-01380-00 (rear camera)

⚠️ **Use caution**

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

💡 **Note**

Use the ESD spudger to avoid damage to the components.

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

Fig 3

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

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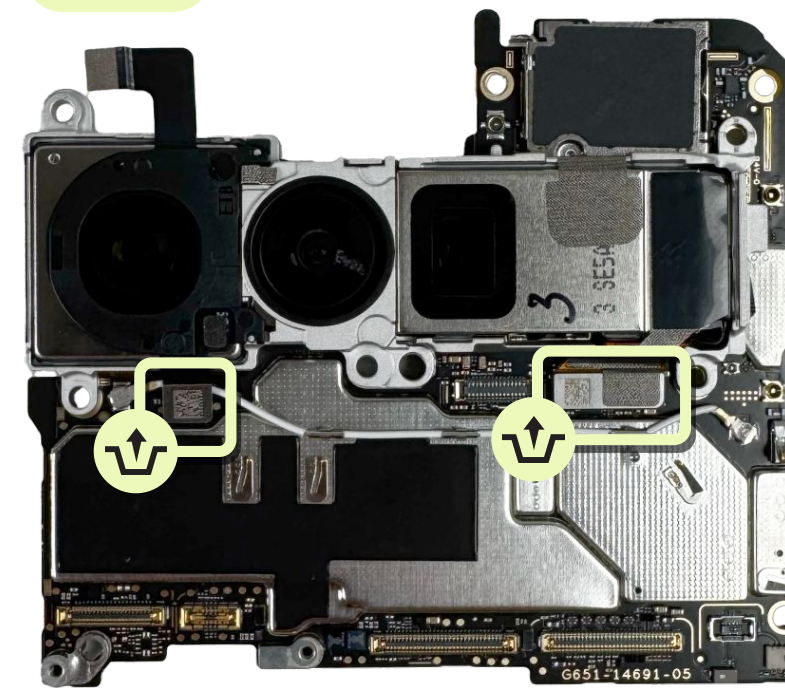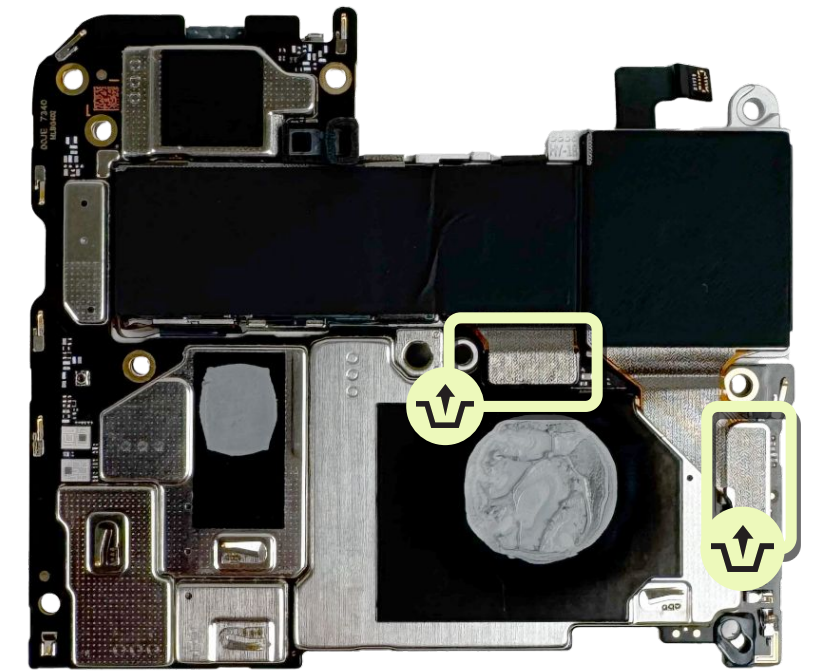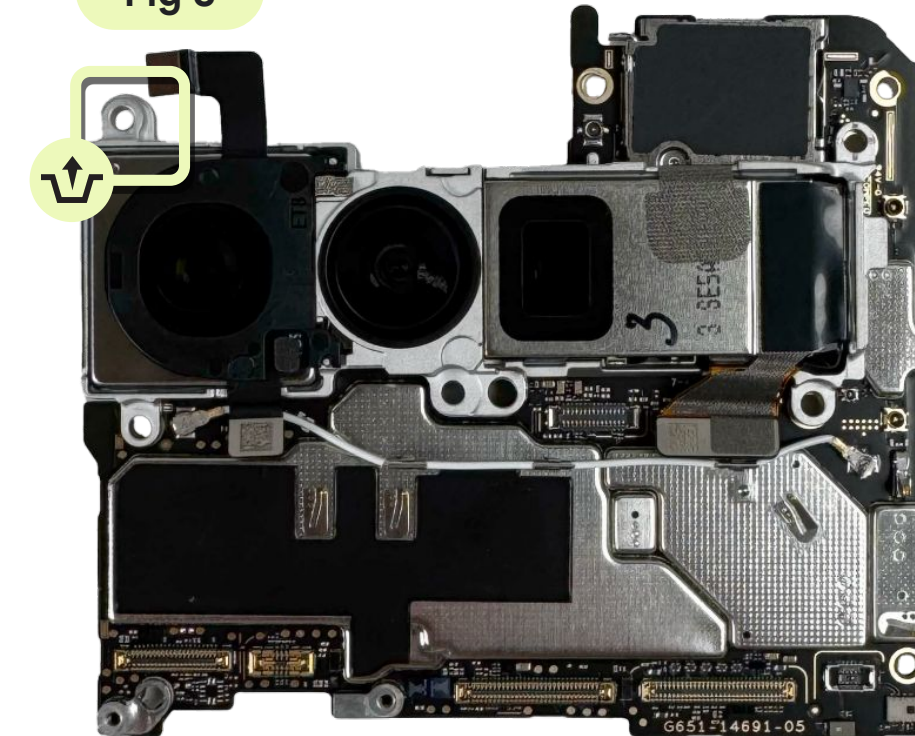
Finished! Want assembly instructions? ➜

Remove the SPAM flex

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

Part: G949-01381-00 (SPAM flex)

⚠️ **Use caution**
Avoid touching the **rear camera lenses**.

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

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

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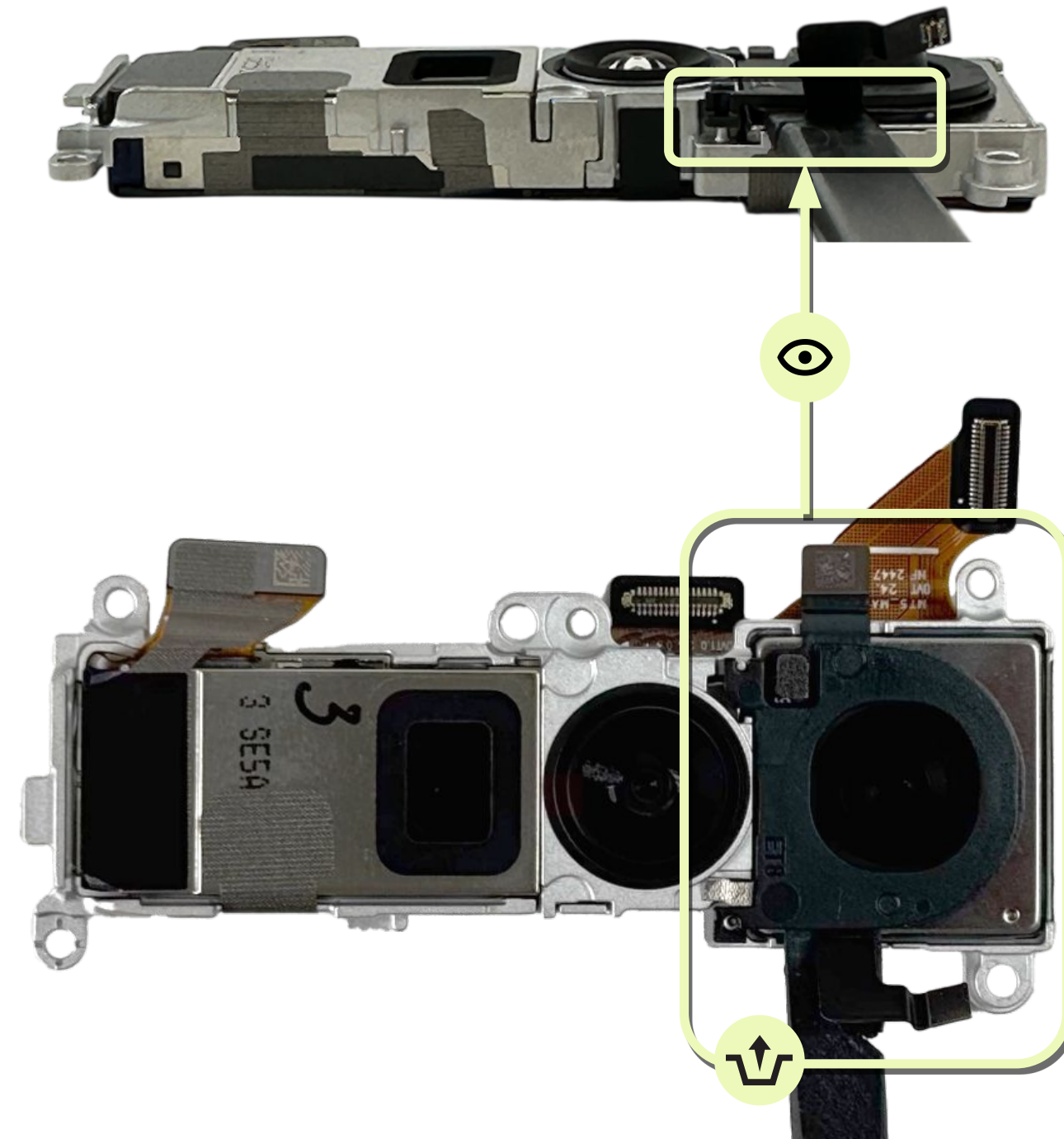
Disassembly
instructions

Top speaker

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

⚠ Use caution

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

⊘ Prerequisites

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

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

✶ Tools

ESD spudger

ESD tweezers

IPA and cloth

🔧 Required parts

Top speaker

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

Reuse indications   🟢 Reusable without cleaning   🔵 Reusable after cleaning   ⚫ Not reusable after disassembly

Top speaker 🔵	Top speaker pad ⚫	Top speaker adhesive ⚫
G863-00688-01	G806-11577-00	G806-13668-01

Remove the top speaker

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

Part: **G863-00688-01** (top speaker)

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

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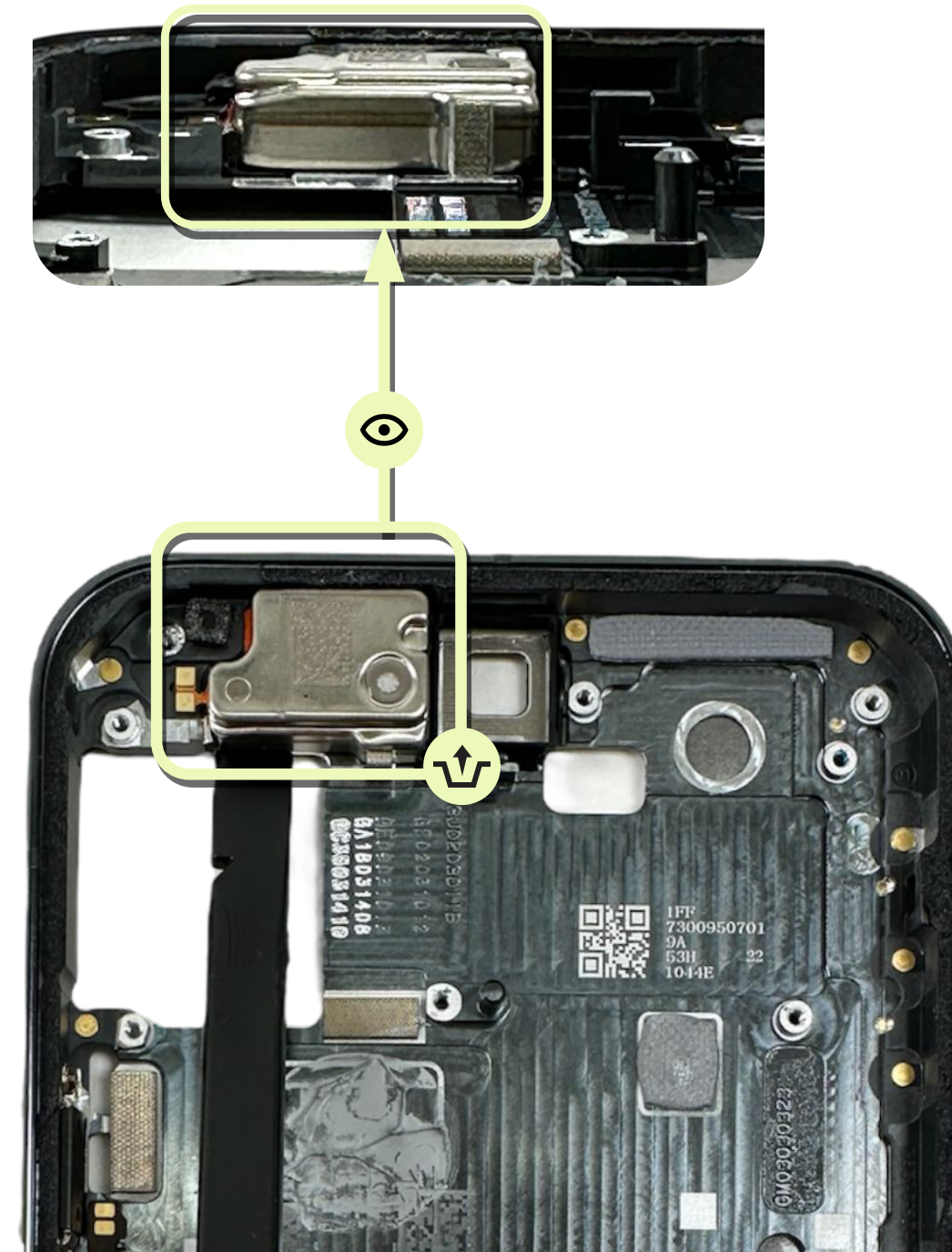
Finished! Want assembly instructions? ➜

Remove the top speaker pad

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

Part: G806-11577-00 (top speaker pad)

> 💡 **Note**
>
> *Don't* reuse the part.
>
> **This step replaces the deformed top speaker pad.**

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

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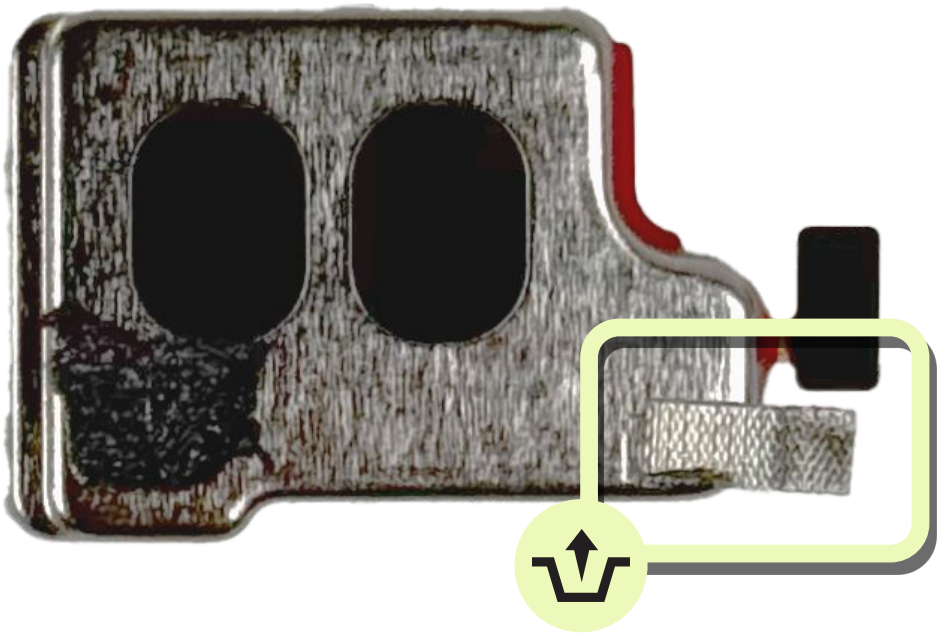
Disassembly
instructions

Chin board

The chin board is communicated with the components, such as the USB port and logic board.

Use caution

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

Prerequisites

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

- **BG sub**

Tools

Torx plus 3IP screwdriver

ESD spudger

ESD tweezers
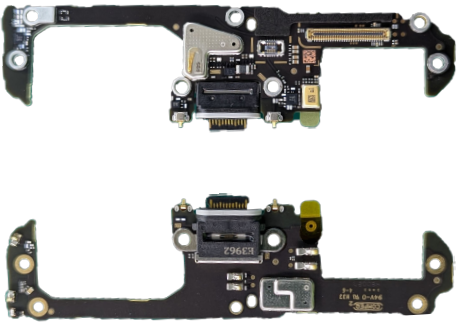
⚒ Required parts

Chin board

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

Chin board	Screw
Chin board ●	Screw ●
G949-01377-00	G250-07839-04

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

Remove the screw

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

Part: G250-07839-04 (screw)

⚠️ **Use caution**

Be careful when you use the screwdriver.

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

💡 **Note**

Don't reuse the screw.

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

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Finished! Want assembly instructions? →

Remove the chin board

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

> **Part: G949-01377-00** (chin board)

⚠️ **Use caution**

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

💡 **Note**

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

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

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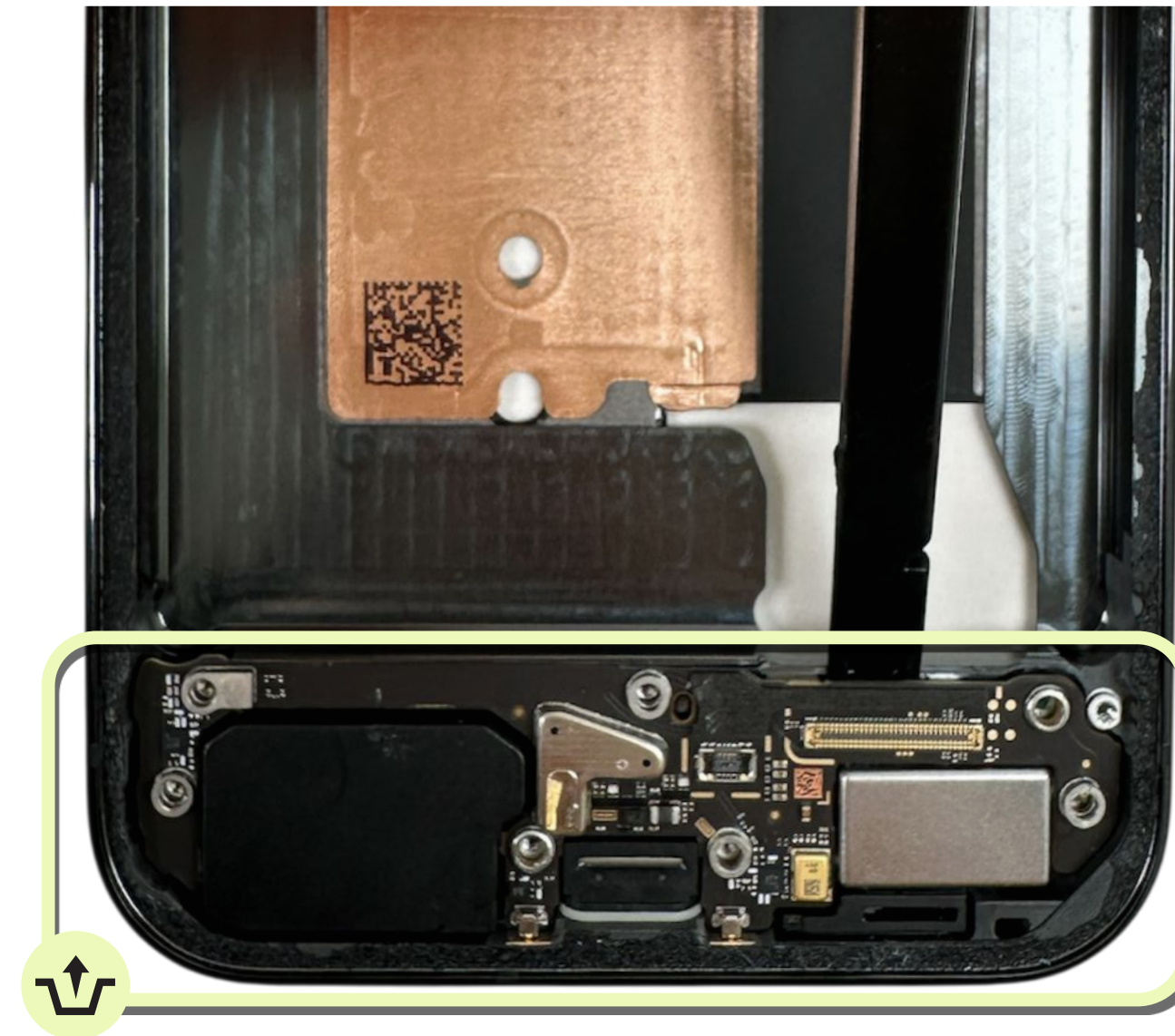
Disassembly
instructions

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**
- **Chin board**

Tools

ESD spudger

ESD tweezers

Dust-free cotton swabs

Sankol lubricant CFD 09Z_V2

⚒ Required parts

Bottom speaker

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

Bottom speaker
G863-00655-01

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

Remove the bottom speaker

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

Part: G863-00655-01 (bottom speaker)

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

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Finished! Want assembly instructions? ➜

Remove the bottom speaker

To remove the bottom speaker with display assembled, insert the narrow end of an **ESD spudger** into the boss hole and lift the **bottom speaker**.

Part: G863-00655-01 (bottom speaker)

> **Note**
>
> Use an **ESD spudger** to avoid damage to the components.
>
> This step is only for bottom speaker repair from the **BG side**.

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

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Disassembly
instructions

Vibrator

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

⚠ Use caution

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

✓ Prerequisites

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

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

⚒ Tools

ESD tweezers

ESD spudger

IPA and cloth

⚒ Required parts

Vibrator

Here's the list of parts for the vibrator disassembly:
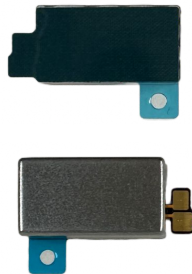
Vibrator 🔵	Vibrator PSA ⚫
G710-07500-00	G806-13155-00

Finished! Want assembly instructions? ➜

Remove the vibrator

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

Part: G710-07500-00 (vibrator)

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

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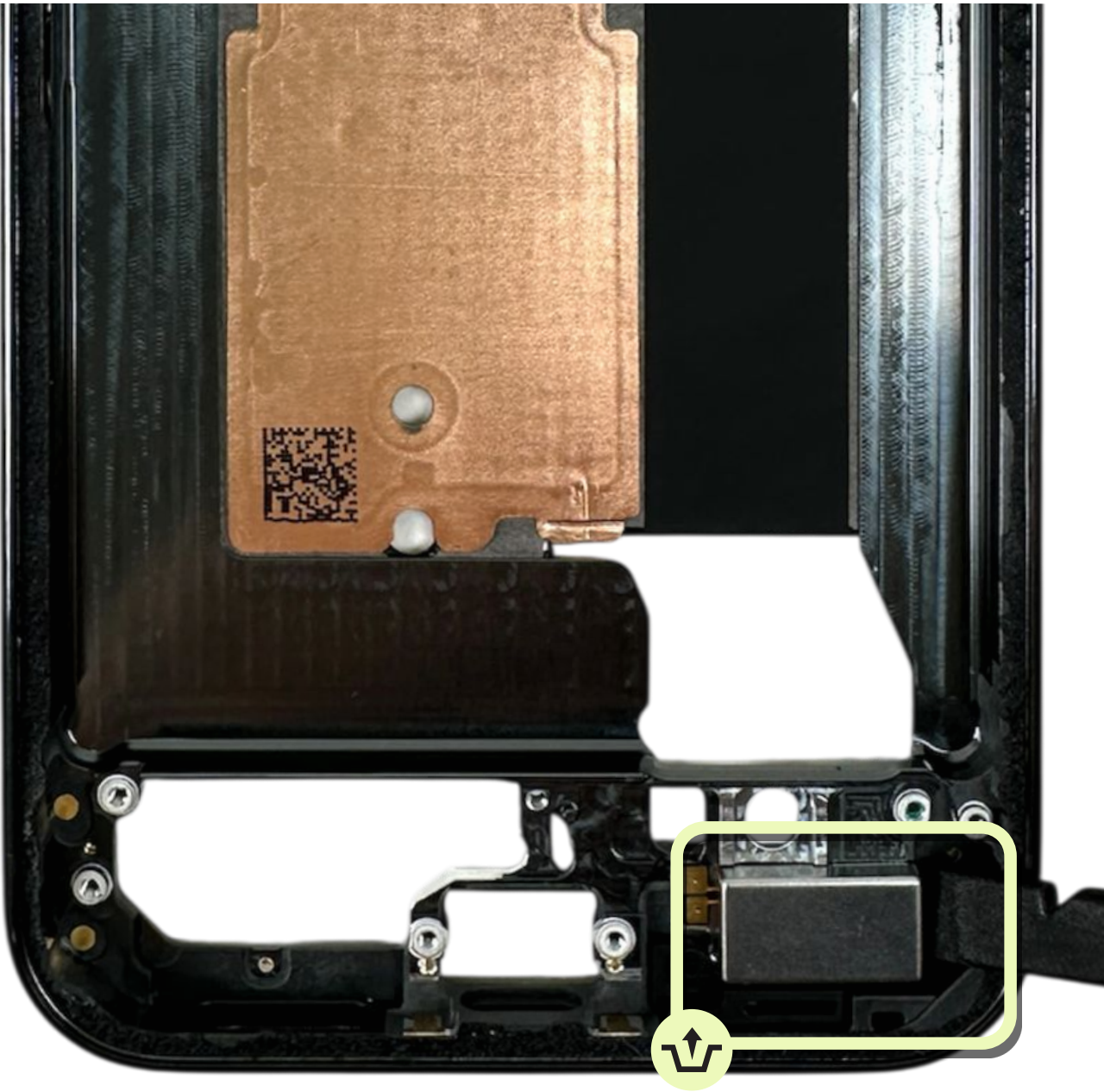
Disassembly
instructions

Enclosure

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

⚠ Use caution

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

⊘ Prerequisites

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

- **Display**
- **BG sub**
- **FCAM**
- **mmWave module**
- **ANT4 board**
- **Battery**
- **Logic board**
- **RCAM**
- **Top speaker**
- **Chin board**
- **Bottom speaker**
- **Vibrator**

⚒ Tools

Dust-free cotton swabs

IPA and cloth

🛠 Required parts

Enclosure

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

Enclosure
Multiple part numbers

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

Pixel 10 Pro XL repair manual

Assembly

Enclosure	mmWave module	Chin board
Top speaker	FCAM	Battery
RCAM	Display	BG sub
Logic board	Vibrator	
ANT4 board	Bottom speaker	
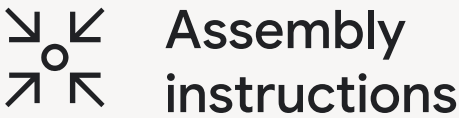
Assembly
instructions

Enclosure

Reuse the enclosure

- Inspect the **enclosure** for **adhesive** residue.

- If possible, carefully peel off the **adhesive** by hand in large sections.

- Use the **ESD spudger** to remove any remaining glue from the **enclosure**.

- Clean **thermal grease** and **mmWave TIM residue** from the **enclosure** with the **ESD spudger**.

- Where needed, use a **dust-free cloth** with **IPA** to clean the surface thoroughly.

Part: multiple part numbers (enclosure)

💡 **Note**

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

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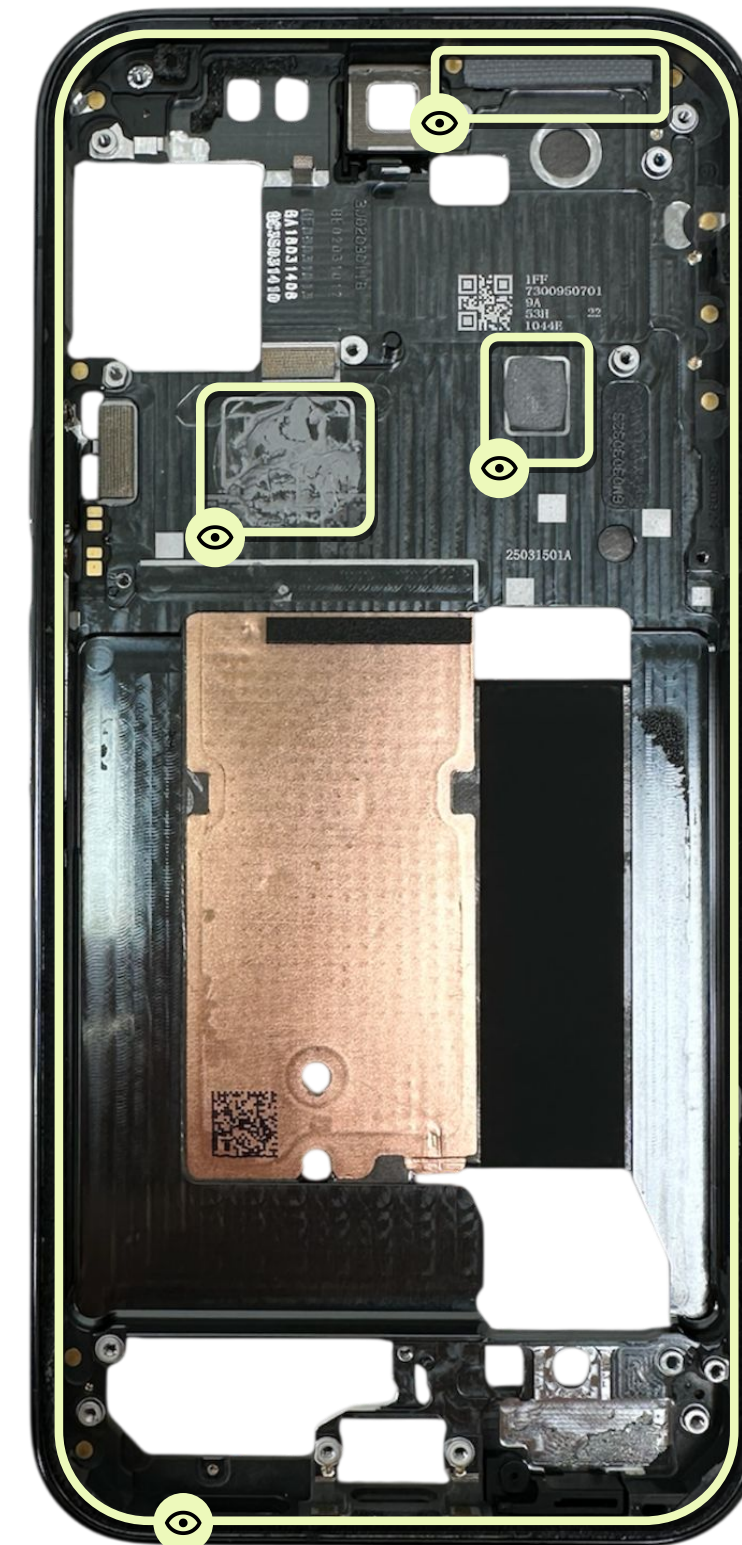
Assembly
instructions

Top speaker

Clean the enclosure

- Clean the **enclosure**'s **adhesive** residue with **ESD tweezers**.

- Use a **dust-free cloth** with **IPA** to clean the affected surface.

Part: **multiple part numbers** (enclosure)

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

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Attach the top speaker adhesive

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

Part: G806-13668-01 (top speaker adhesive)

> ⚠️ **Use caution**
>
> *Don't* cover the speaker ports with the top speaker adhesive.

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

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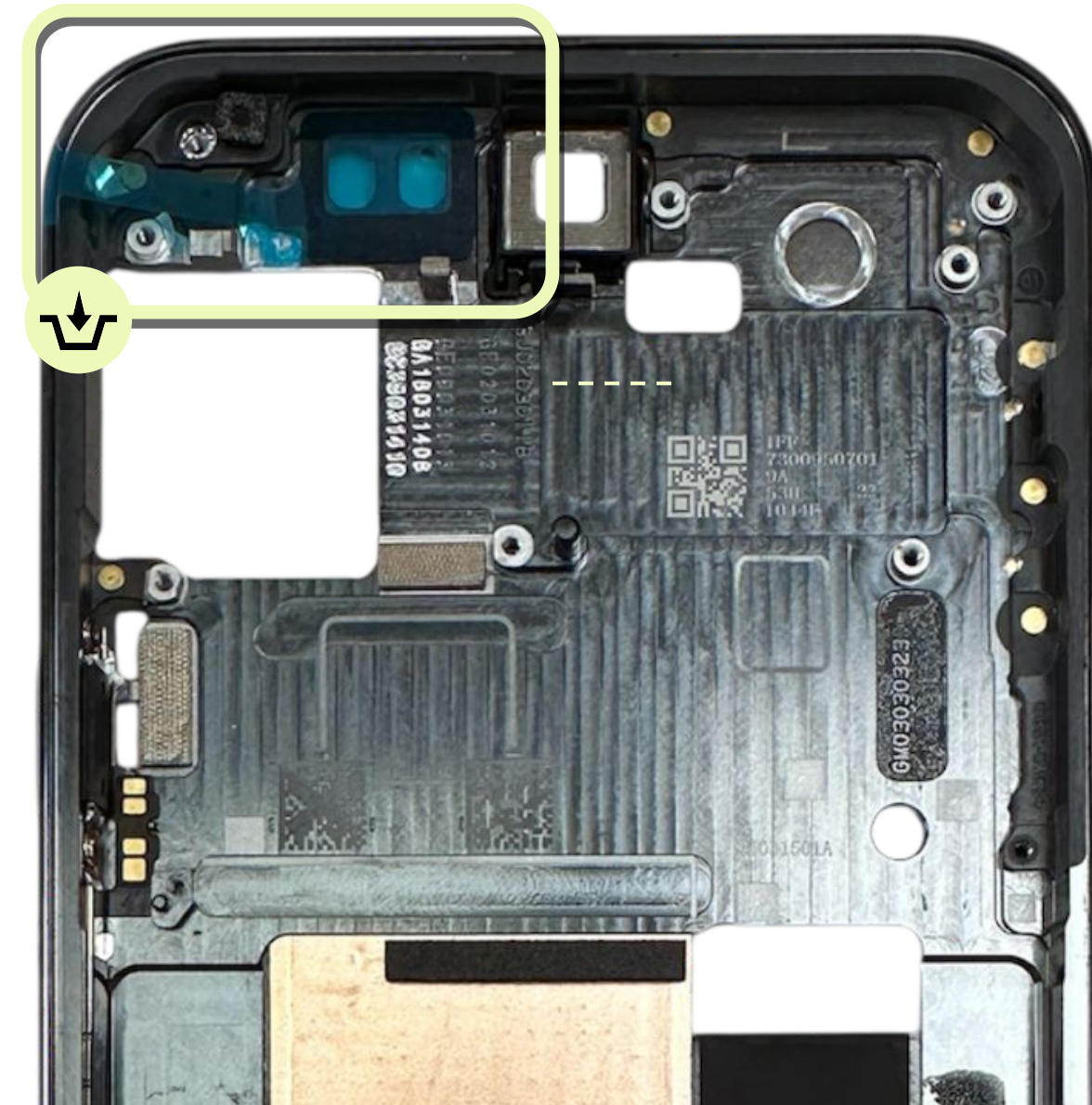
Attach the FoF

- Align from the **dashed line** on the enclosure Fig 1.

- Attach the **FoF** with **ESD tweezers** as shown in Fig 2 and Fig 3.

Parts: G806-11578-00 (FoF)

Fig 1

Note

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

Otherwise, it could be reused.

Fig 2

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

Pixel 10 Pro XL Repair Manual V1.0　©Google 2025　|　Page 114
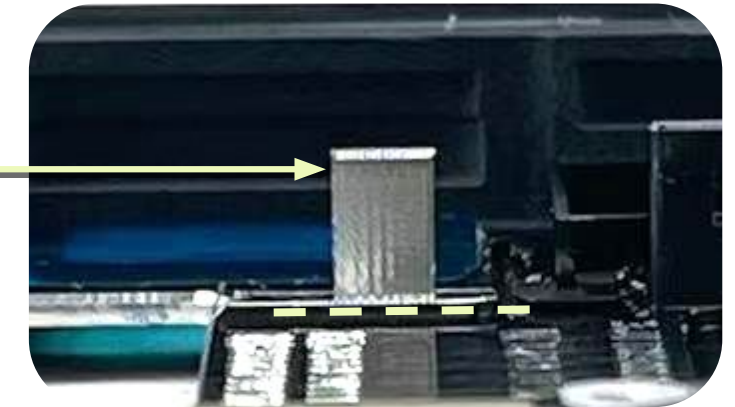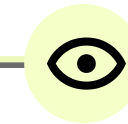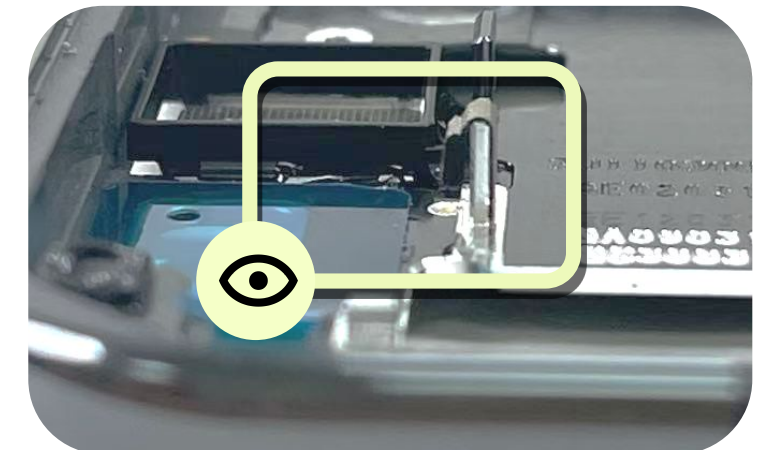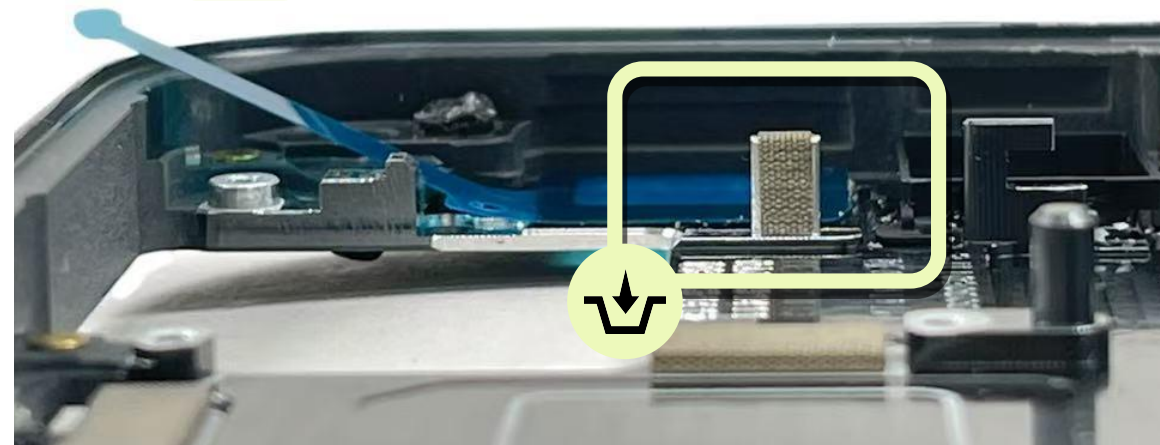
Reuse the top speaker

- Clean the **top speaker**'s **adhesive** residue with **ESD tweezers**.

- Use a **dust-free cloth** with **IPA** to clean the affected surface.

> **Part: G863-00688-01** (top speaker)

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

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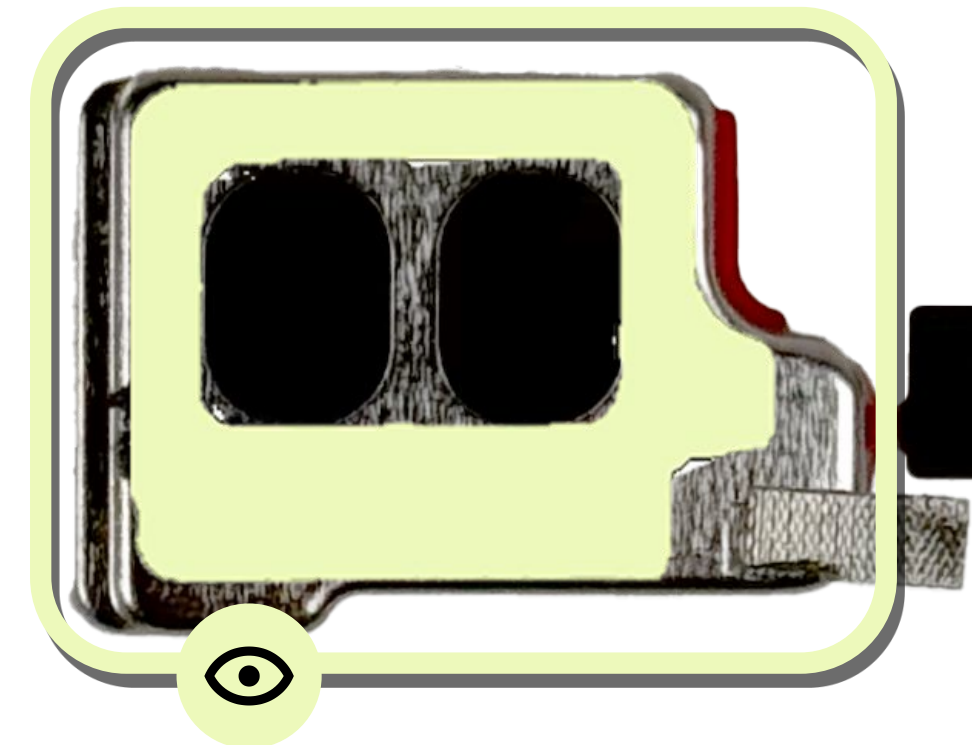
Attach the top speaker pad

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

Part: G806-11577-00 (top speaker pad)

> 💡 **Note**
>
> Undamaged top speaker pad could be reused.
>
> Damaged top speaker pad needs to be replaced.

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

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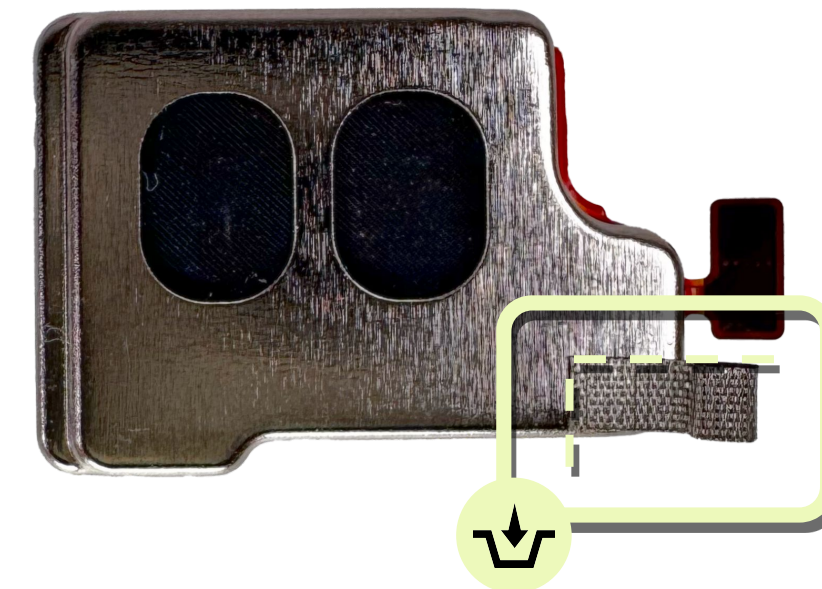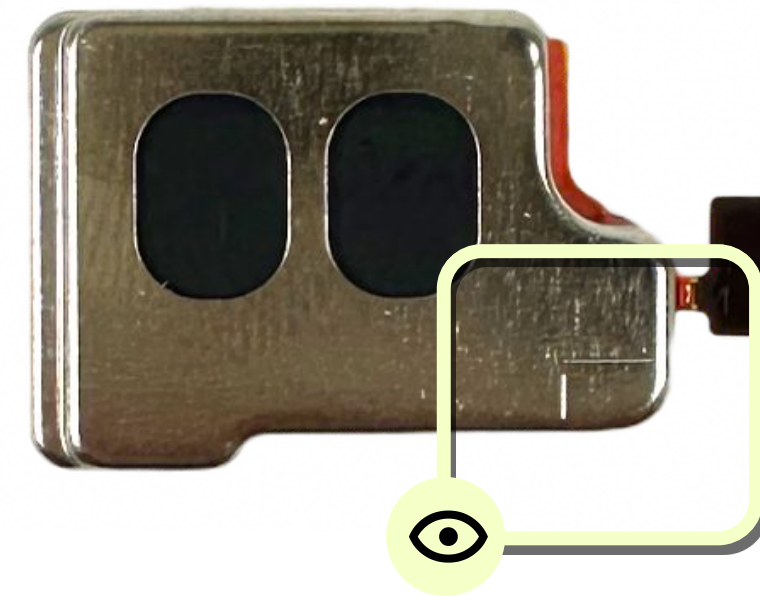
Assemble the top speaker

- Gently tear off the **top speaker PSA liner**.

- Press for **6 seconds** manually to ensure adhesion.

Part: G863-00688-01 (top speaker)

Note

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

OK
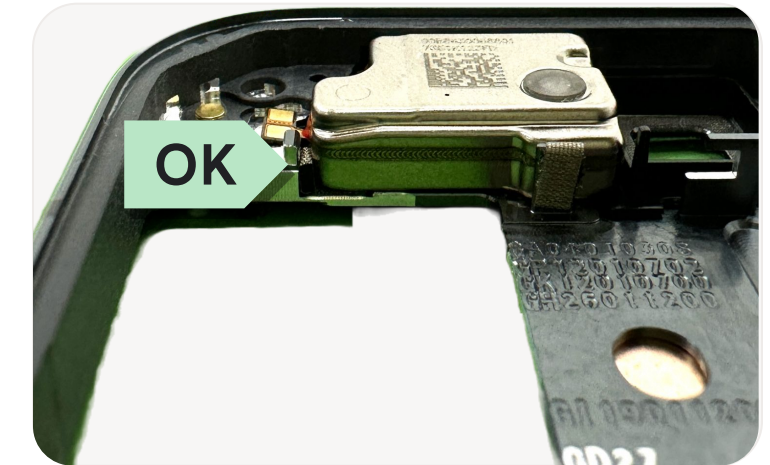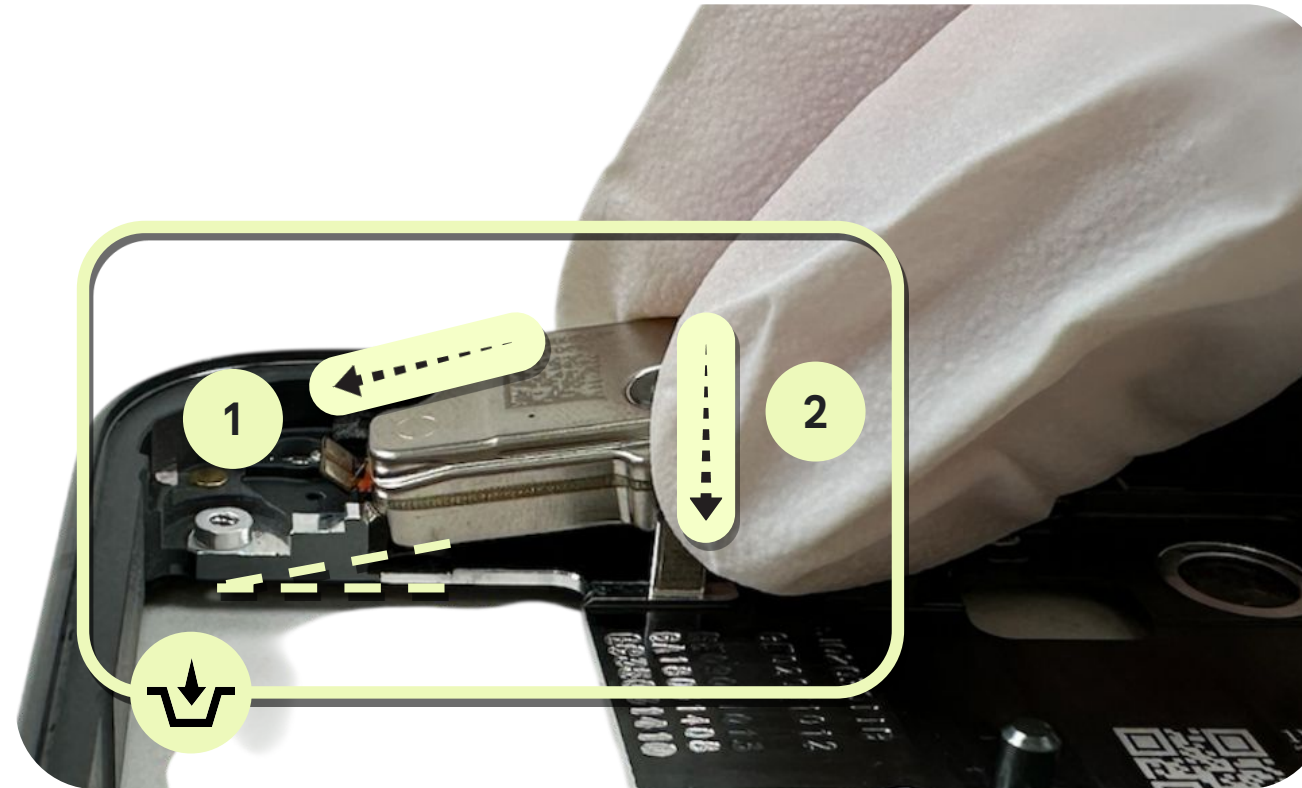
Pad is between the top speaker and the enclosure.

No
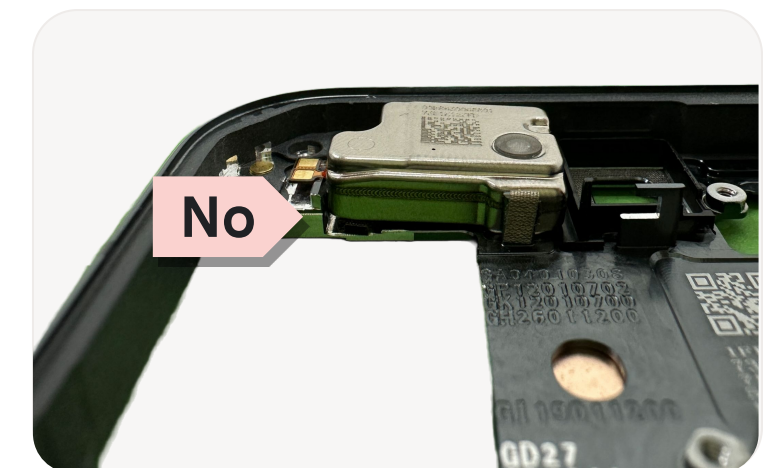
Pad is under the top speaker.

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

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Assembly
instructions
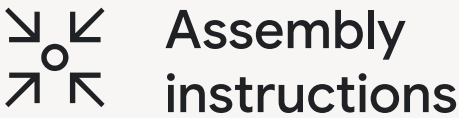
Rear camera

Reuse the rear camera

- Clean the residue on the **rear camera** with **ESD tweezers**.

- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: G949-01380-00 (rear camera)

⚠️ **Use caution**

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

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

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Check the logic board

General rules

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

Springs

OK

Deformation

Pins

OK

No

Deformation

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

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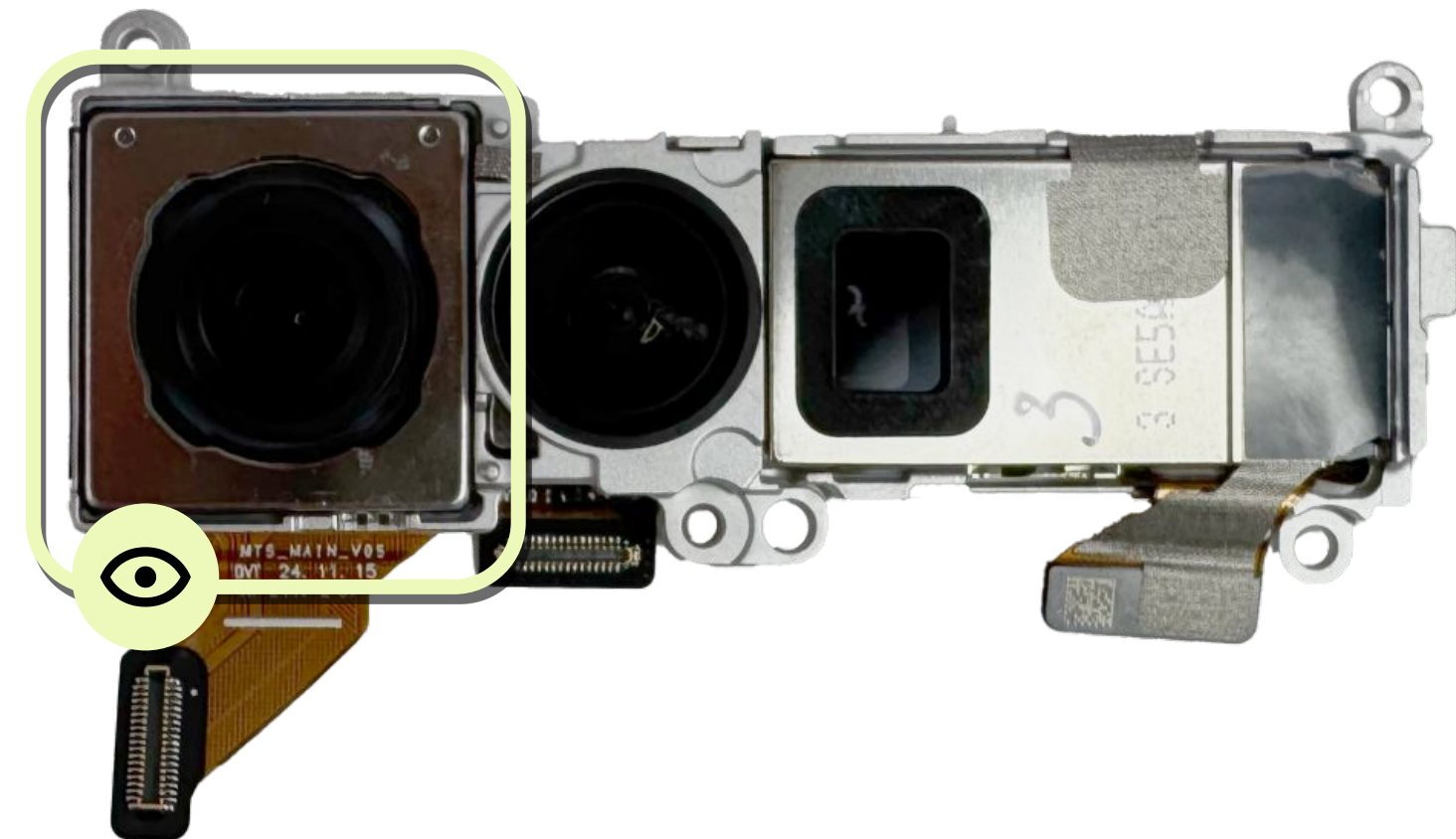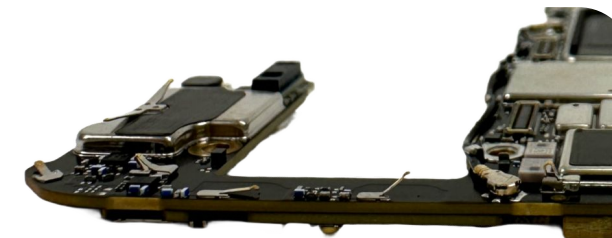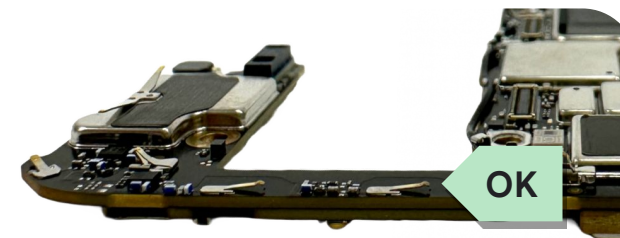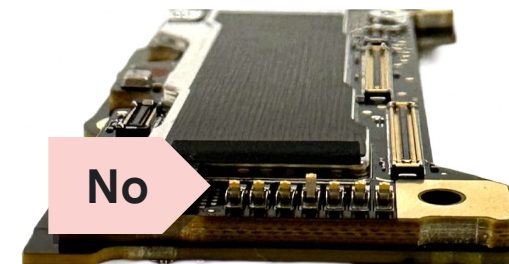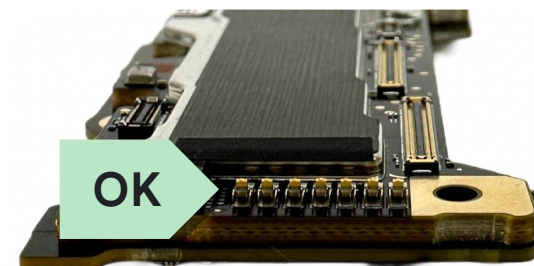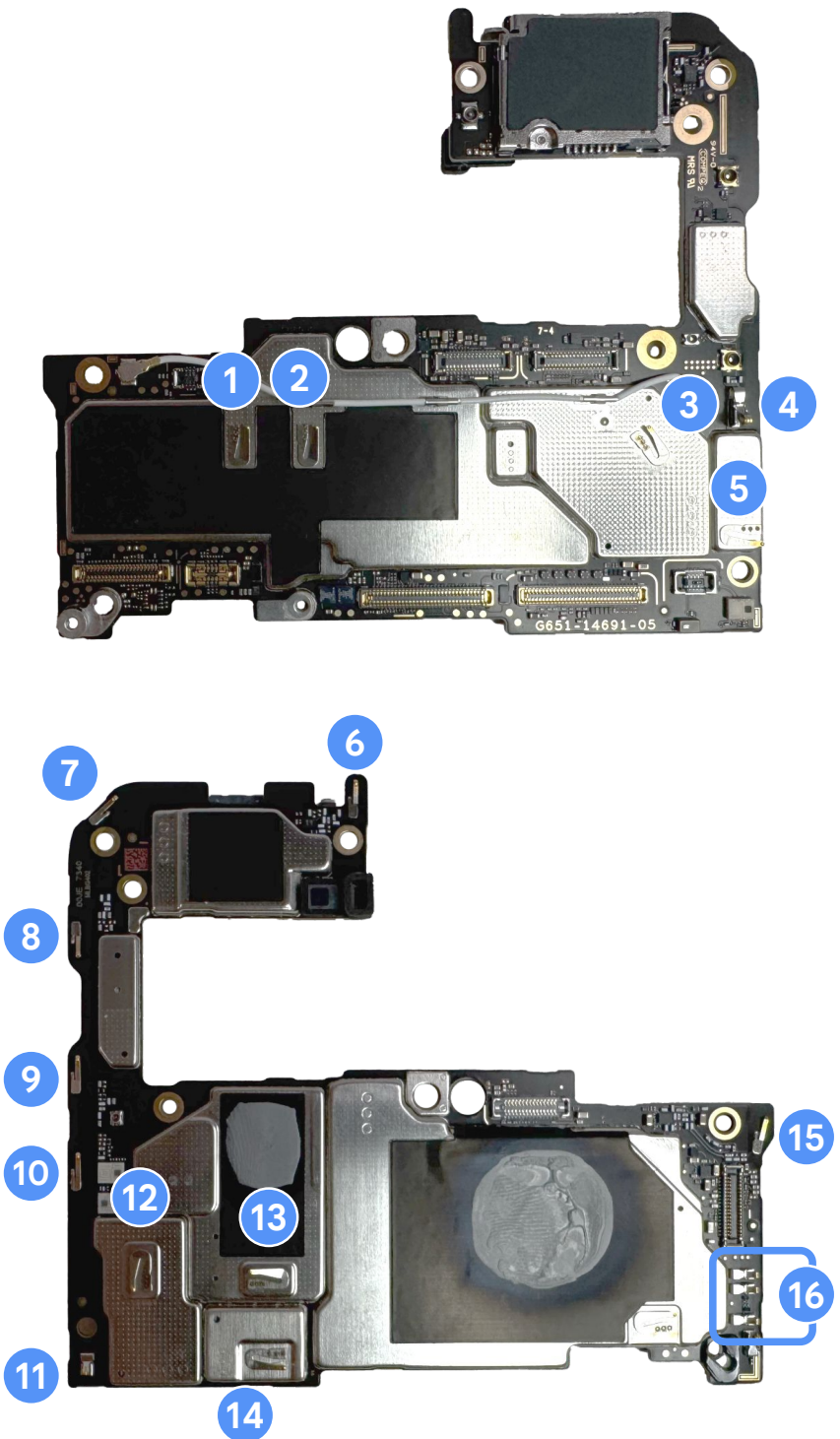
Reuse the logic board

- Clean any **thermal grease** and **thermal TIM** residue from the **logic board** with an **ESD spudger**.

- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

- Replace the **Thermal TIM**.

Part: **multiple part numbers** (logic board)

⚠️ **Use caution**

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

💡 **Note**

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

Undamaged **thermal TIM** could be reused.

Otherwise, they might need to be replaced.

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

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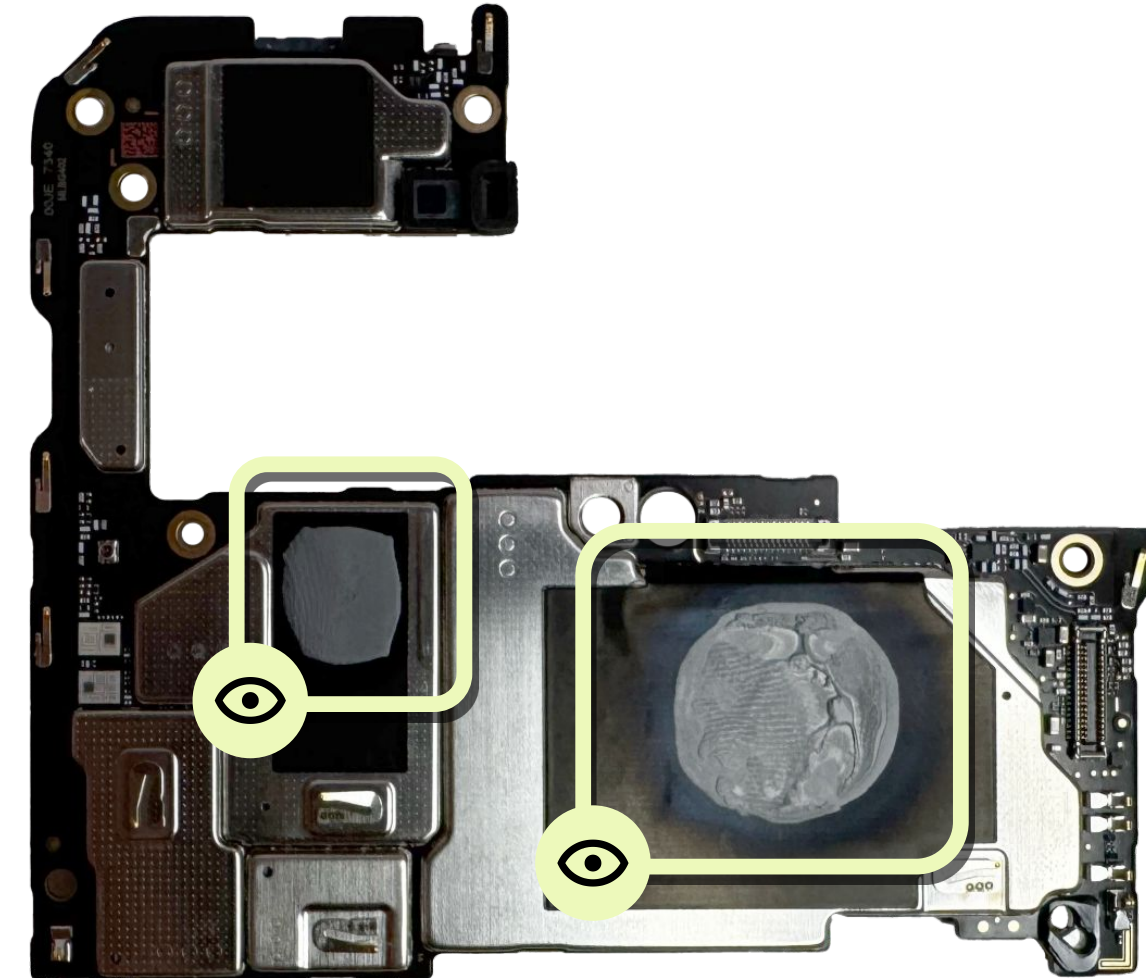
Assemble the rear camera

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

| Part: G949-01380-00 (rear camera) |

| Part: multiple part numbers (logic board) |

⚠️ **Use caution**

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

💡 **Note**

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

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

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

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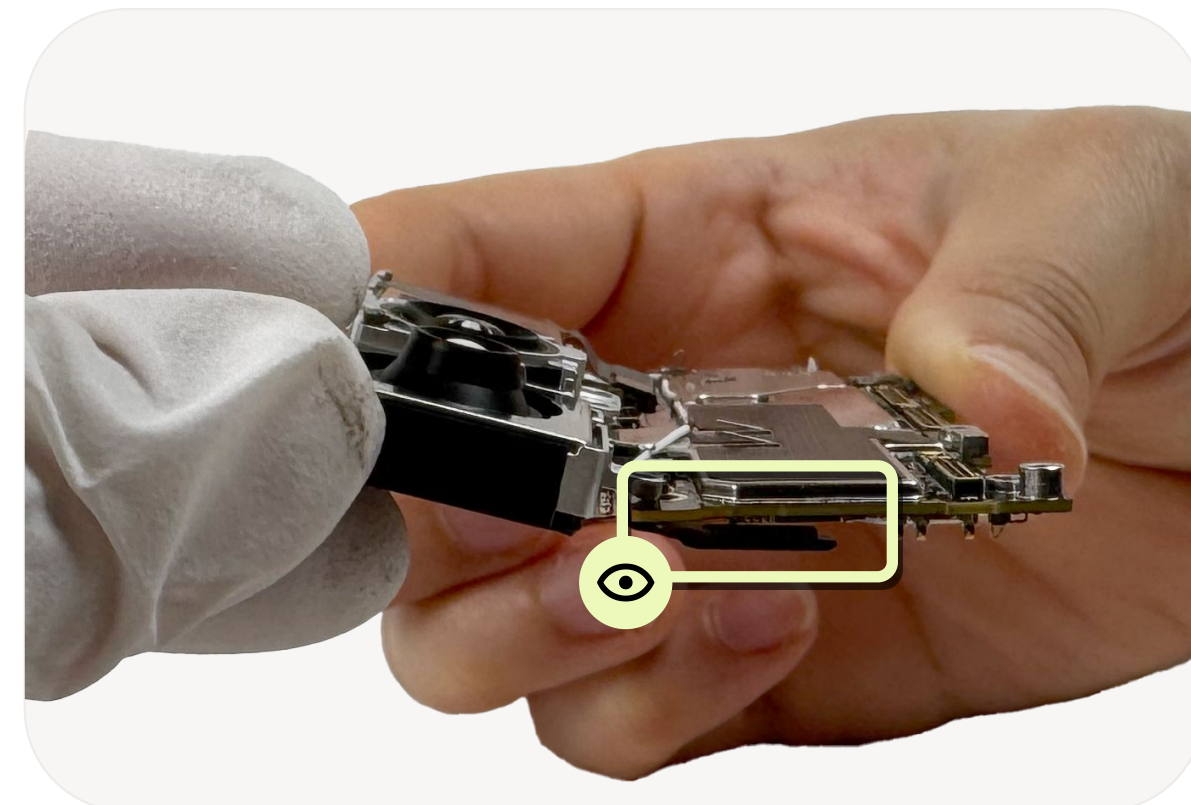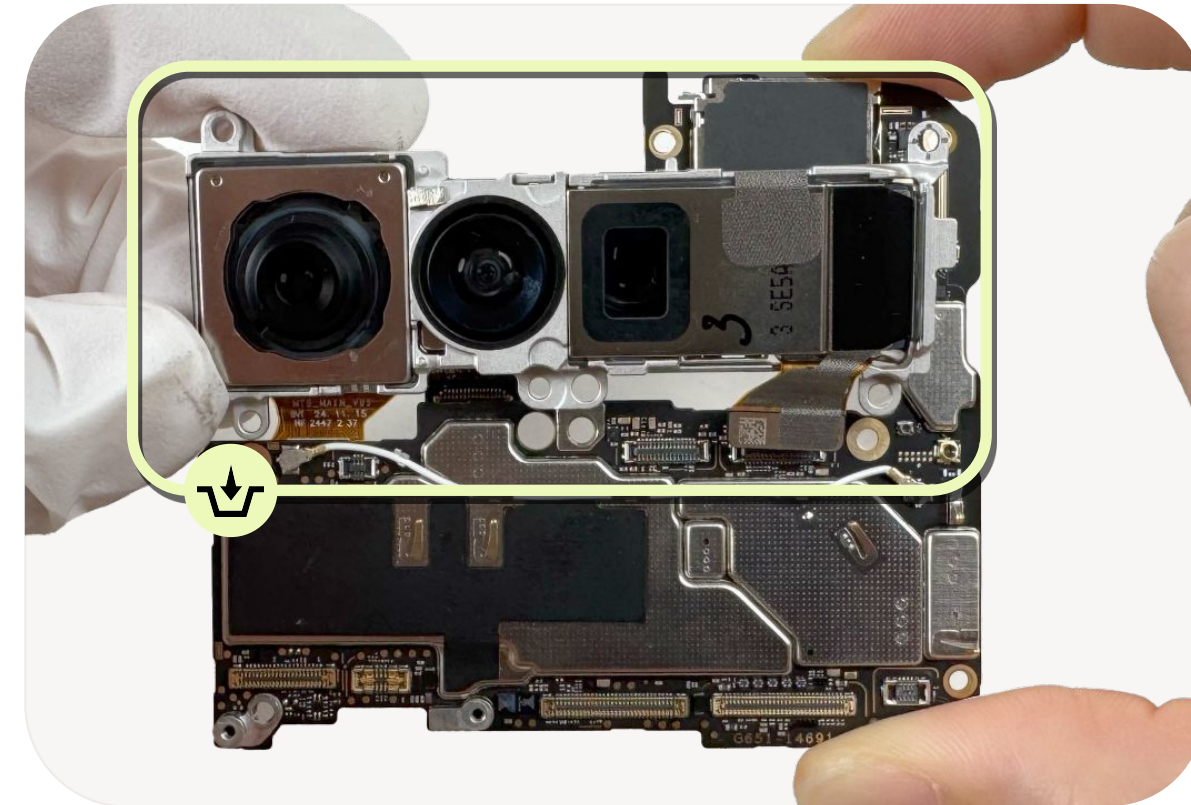
Buckle the rear camera

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

Part: **G949-01380-00** (rear camera)

Part: **multiple part numbers** (logic board)

Note

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

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

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

Pixel 10 Pro XL Repair Manual V1.0   ©Google 2025 | Page 123
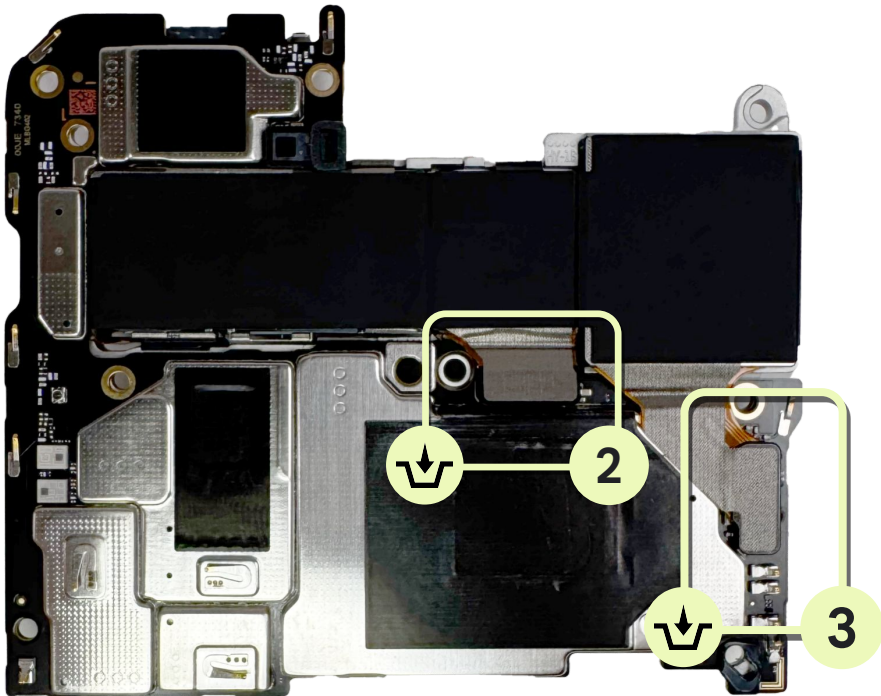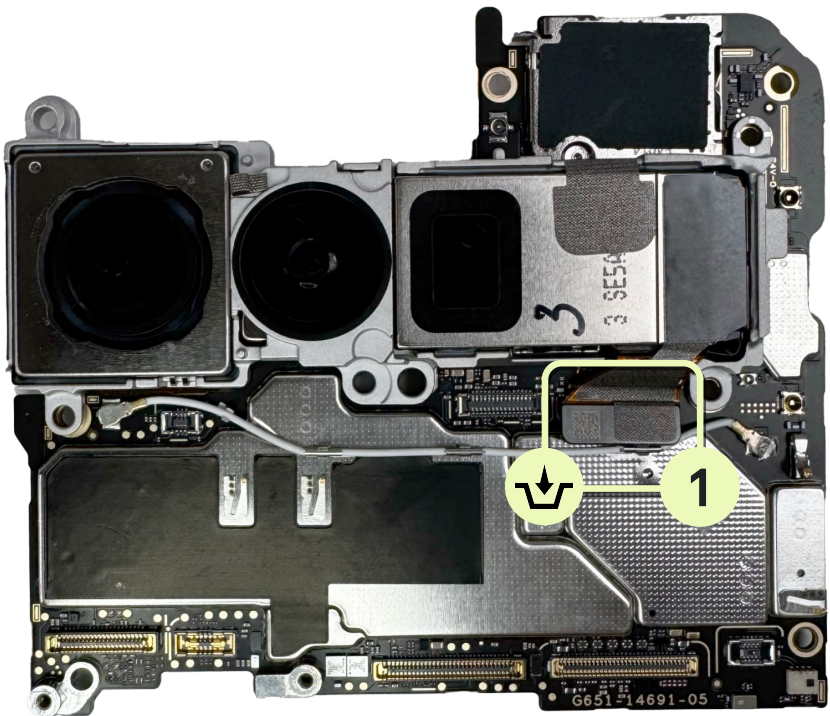
Assembly
instructions

Logic board

Check the logic board

General rules

Use caution

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

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

Springs

OK

No

Deformation

Pins

OK

No

Deformation

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

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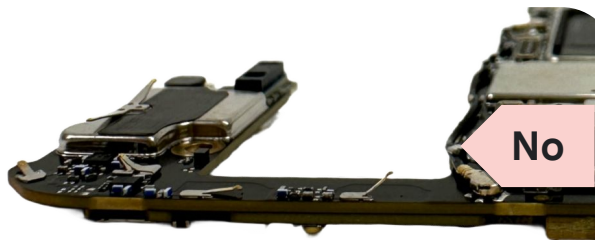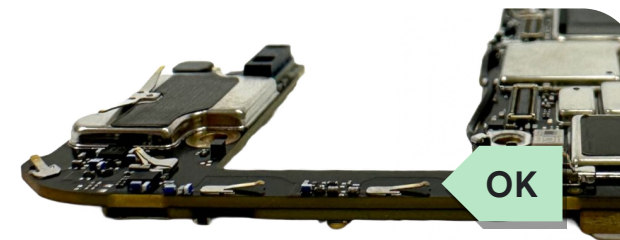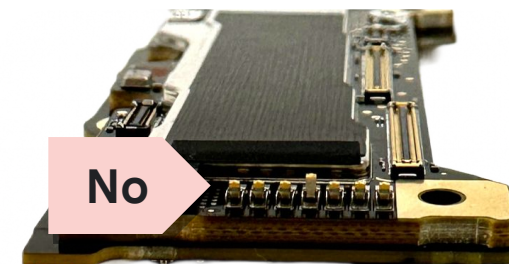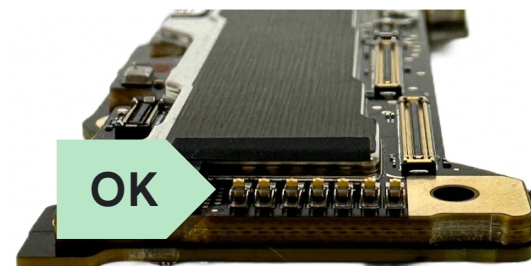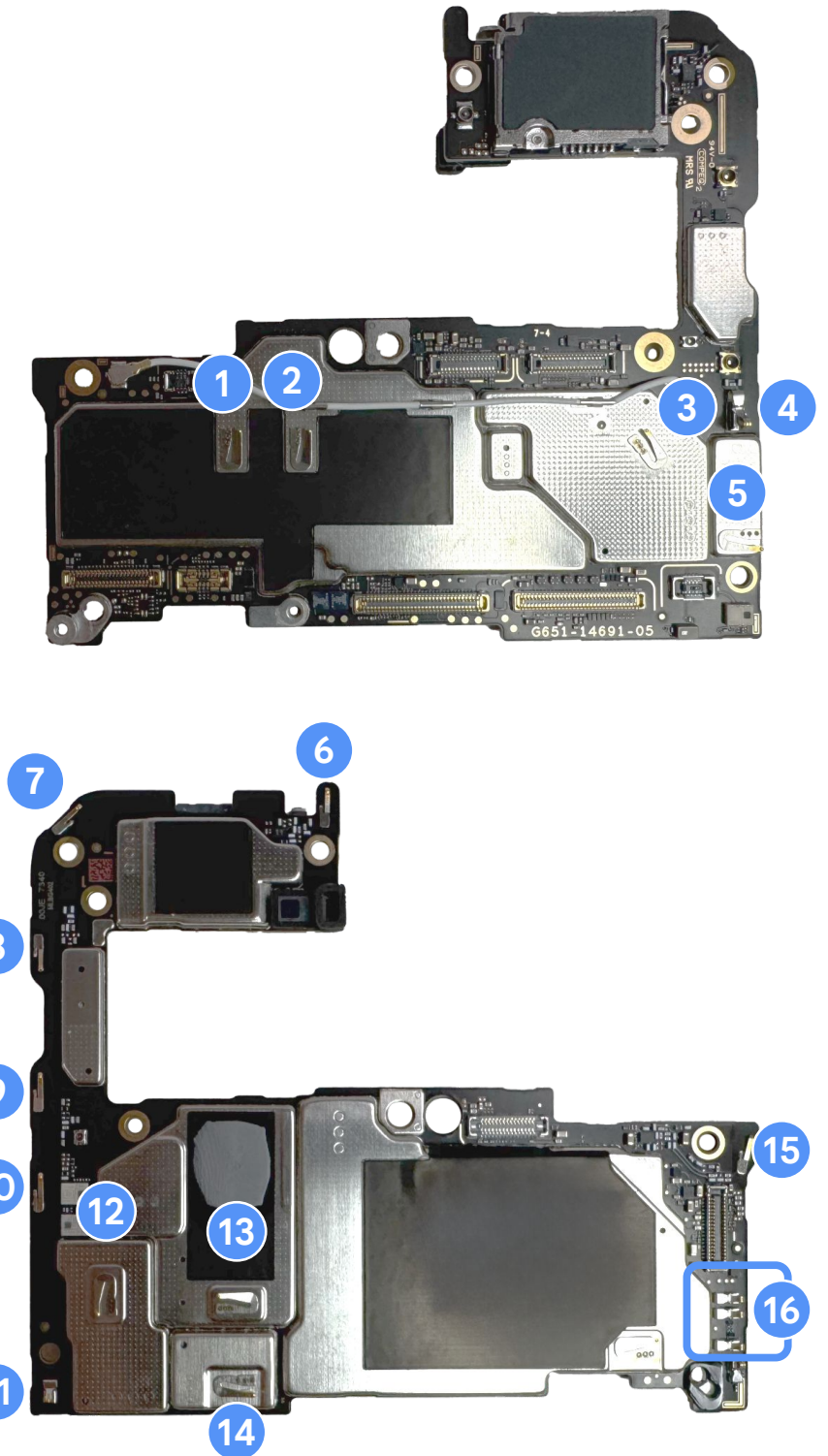
Attach the P-sensor foam

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

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

💡 **Note**

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

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

Wrong side

Missing

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

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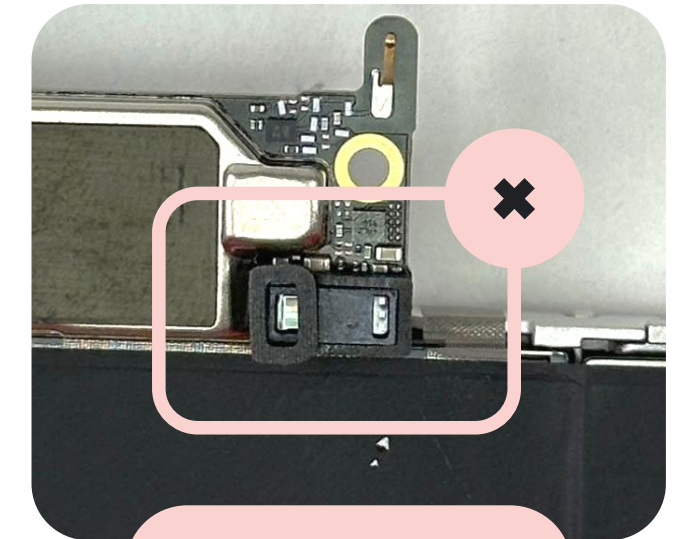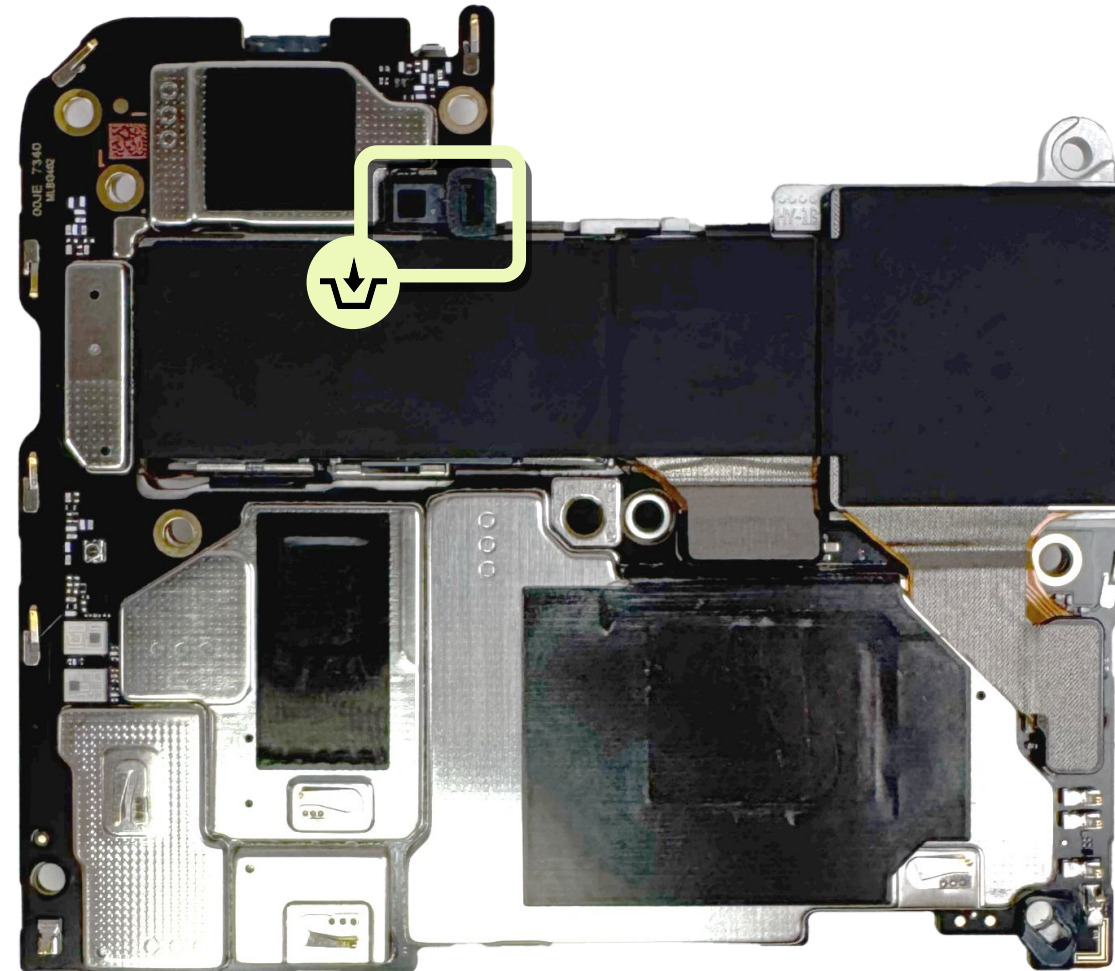
Apply the thermal TIM

Attach the **thermal TIM** to the designed position on the **logic board** with **ESD tweezers**.

Part: **G864-01063-01** (thermal TIM)

> ### Note
>
> Skip this step if the **thermal TIM** is not removed or deformed during disassembly.
>
> Use a new **TIM**, when you replace the **logic board**.

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

Pixel 10 Pro XL Repair Manual V1.0   ©Google 2025 | Page 127
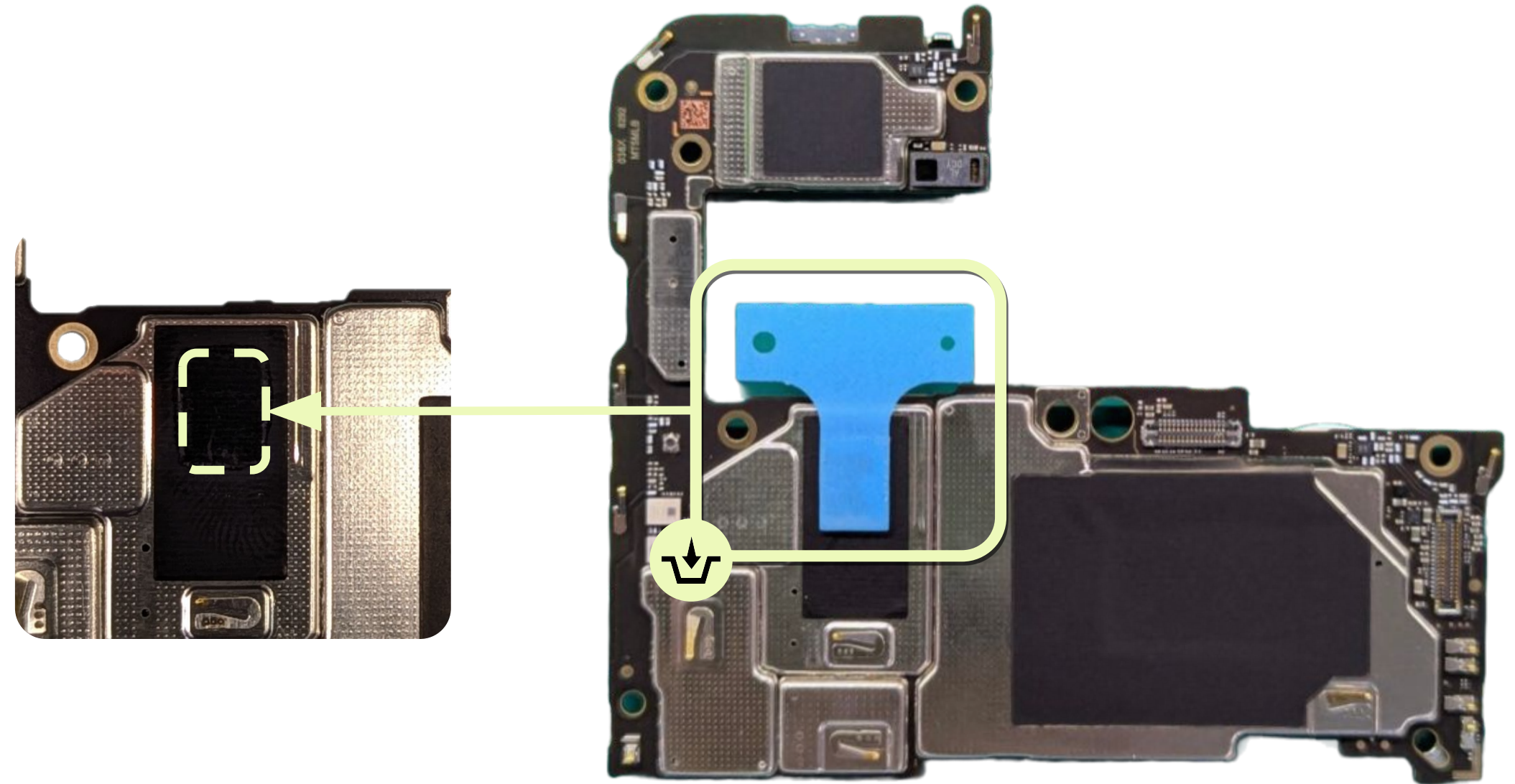
Apply the thermal grease

- Place the **Pixel 10 Pro XL thermal grease alignment fixture** on the enclosure, make sure it goes around the positioning post and boss hole as shown in Fig 1.

- Fill the cutout on the fixture with **thermal grease**.

- Distribute the grease evenly with an **opening pick**, move it in a single direction as shown in Fig 2.

- Lift the **fixture** straight up to avoid contamination as shown in Fig 3.

Part: G160-01459-00 (thermal grease)

Part: G160-01481-00 (thermal grease)

⚠️ **Use caution**

Don't press the graphite.

Review safety precautions before you begin work.

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

Avoid applying conductive thermal grease to nearby components.

💡 **Note**

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

Fig 1

Fig 2

Fig 3

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

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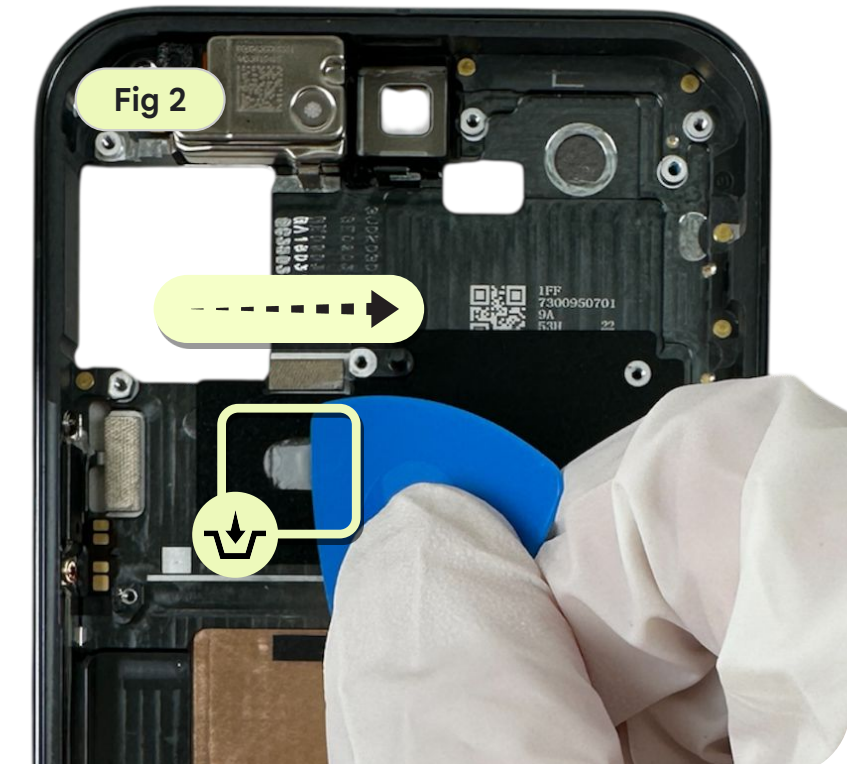
Assemble the logic board

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

> Part: **multiple part numbers** (logic board)

⚠️ **Use caution**

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

💡 **Note**

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

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

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

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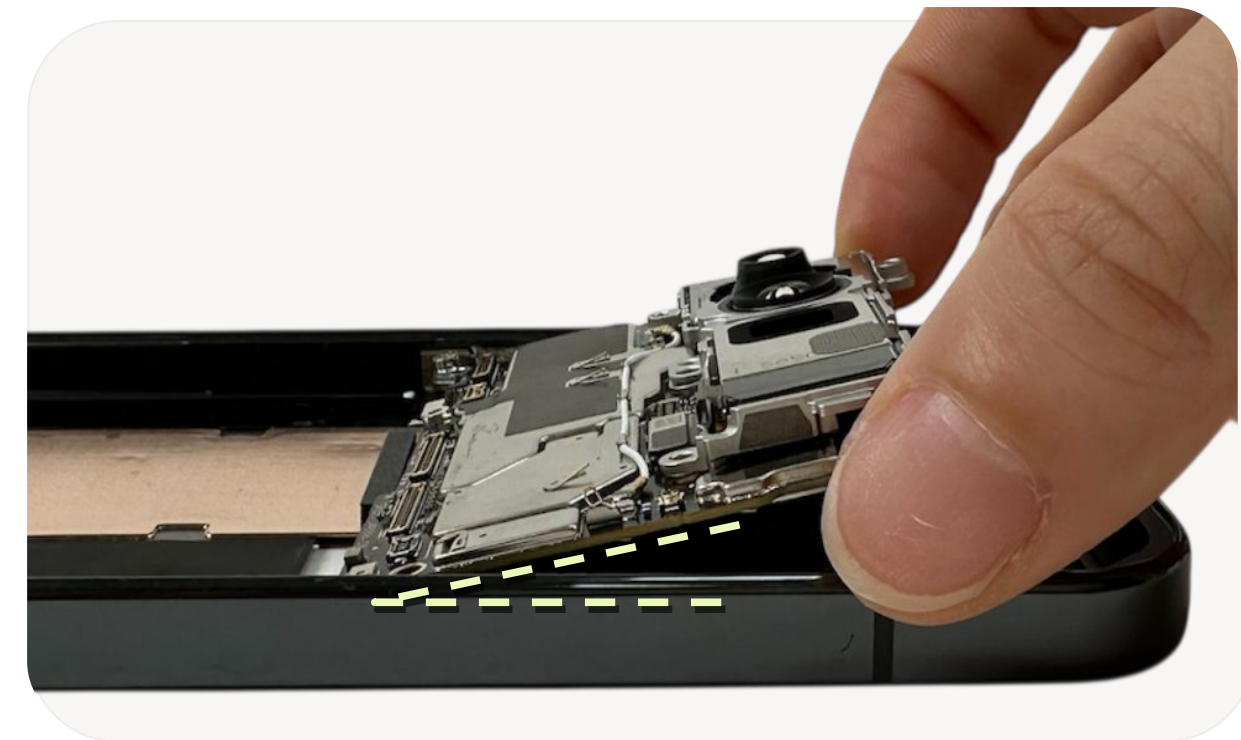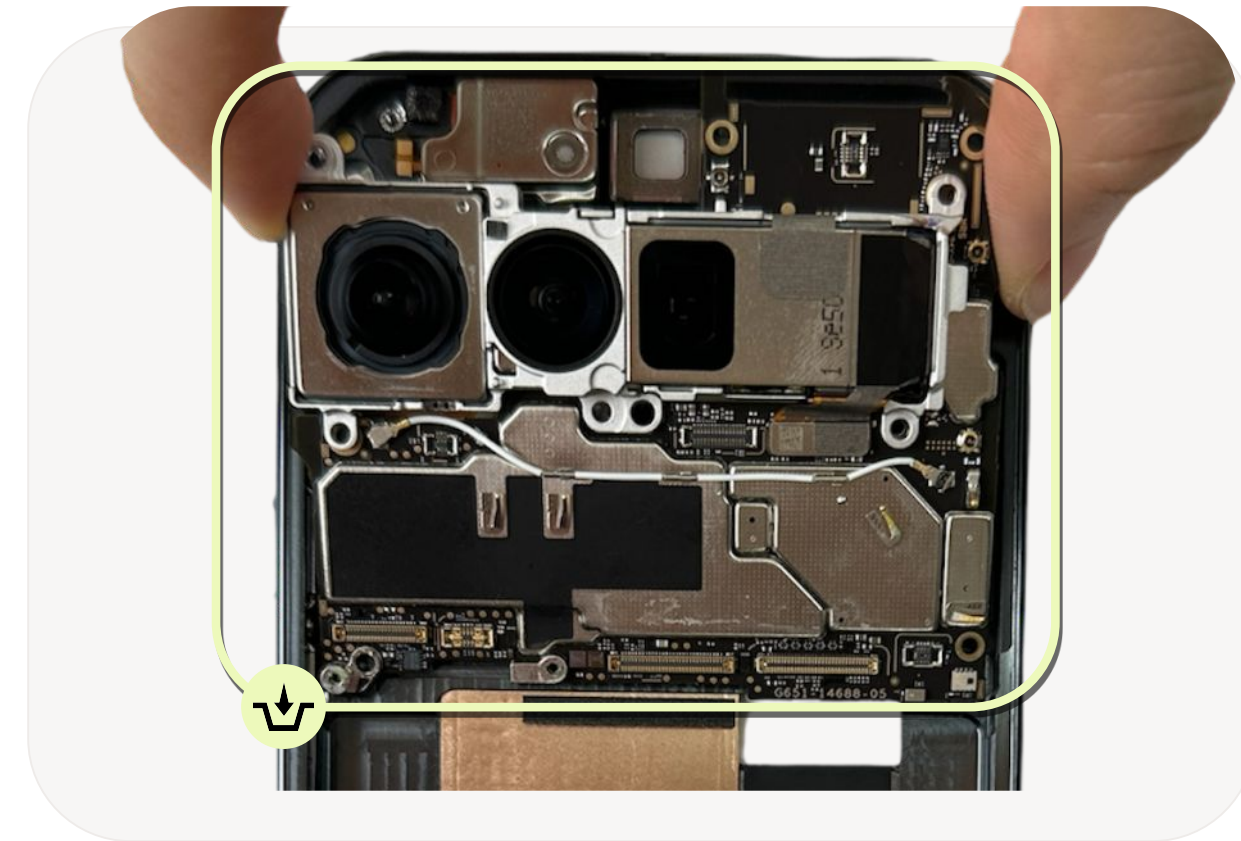
Install the SIM tray

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

Part: **multiple part numbers** (SIM tray)

Note

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

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

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Fasten the screw

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

Part: **G250-07839-04** (screw)

⚠️ **Use caution**

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

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

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Assembly
instructions

ANT4 board

Clean the enclosure

- Clean the **mic3 mesh** residue on the **enclosure** with **ESD tweezers**.

- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: **multiple part numbers** (enclosure)

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

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Reuse the ANT4 board

- Clean the **mic3 mesh** residue on the **ANT4 board** with **ESD tweezers**.

- Use a **dust-free cloth** with **IPA** to clean the surface.

Part: G949-01378-00 (ANT4 board)

⚠ **Use caution**

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

💡 **Note**

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

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

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Replace the mic3 mesh

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

Part: G806-15772-01 (mic3 mesh)

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

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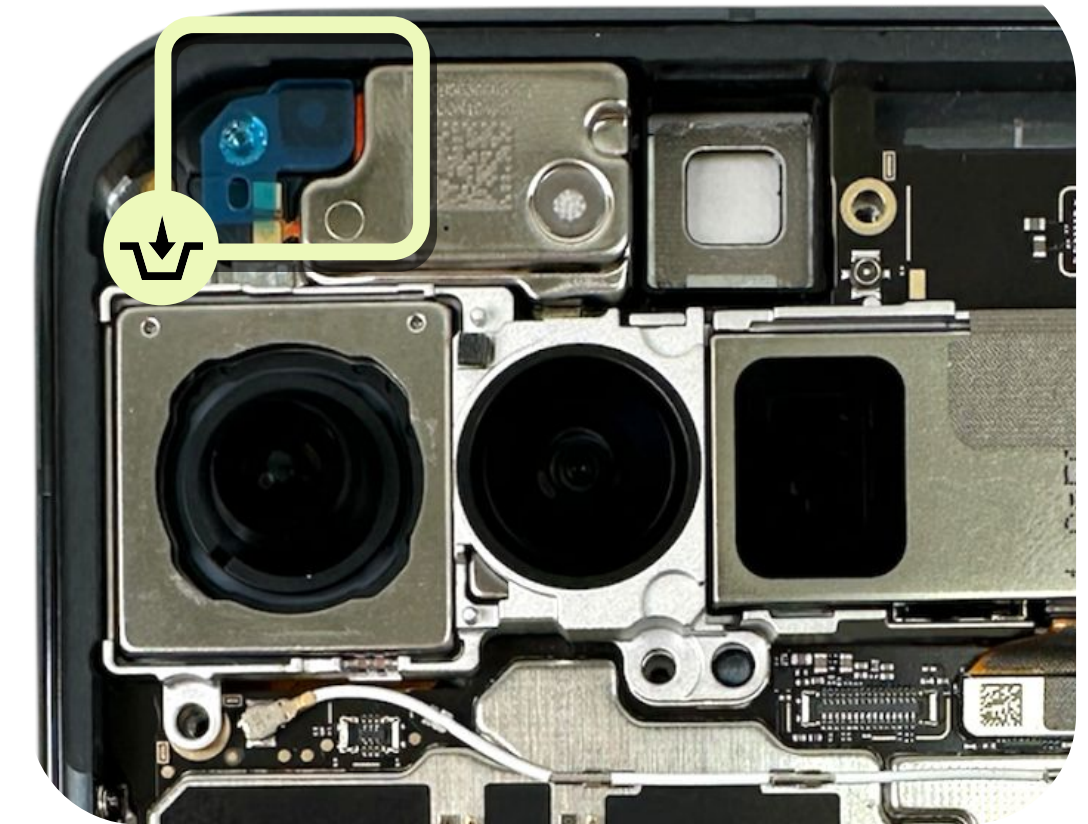
Assemble the ANT4 board

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

> **Part: G949-01378-00** (ANT4 board)

> ⚠️ **Use caution**
>
> Ensure that the **mic3 mesh liner** is removed before assembly.
>
> Be careful to avoid damage to components on the **ANT4 board**.

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

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

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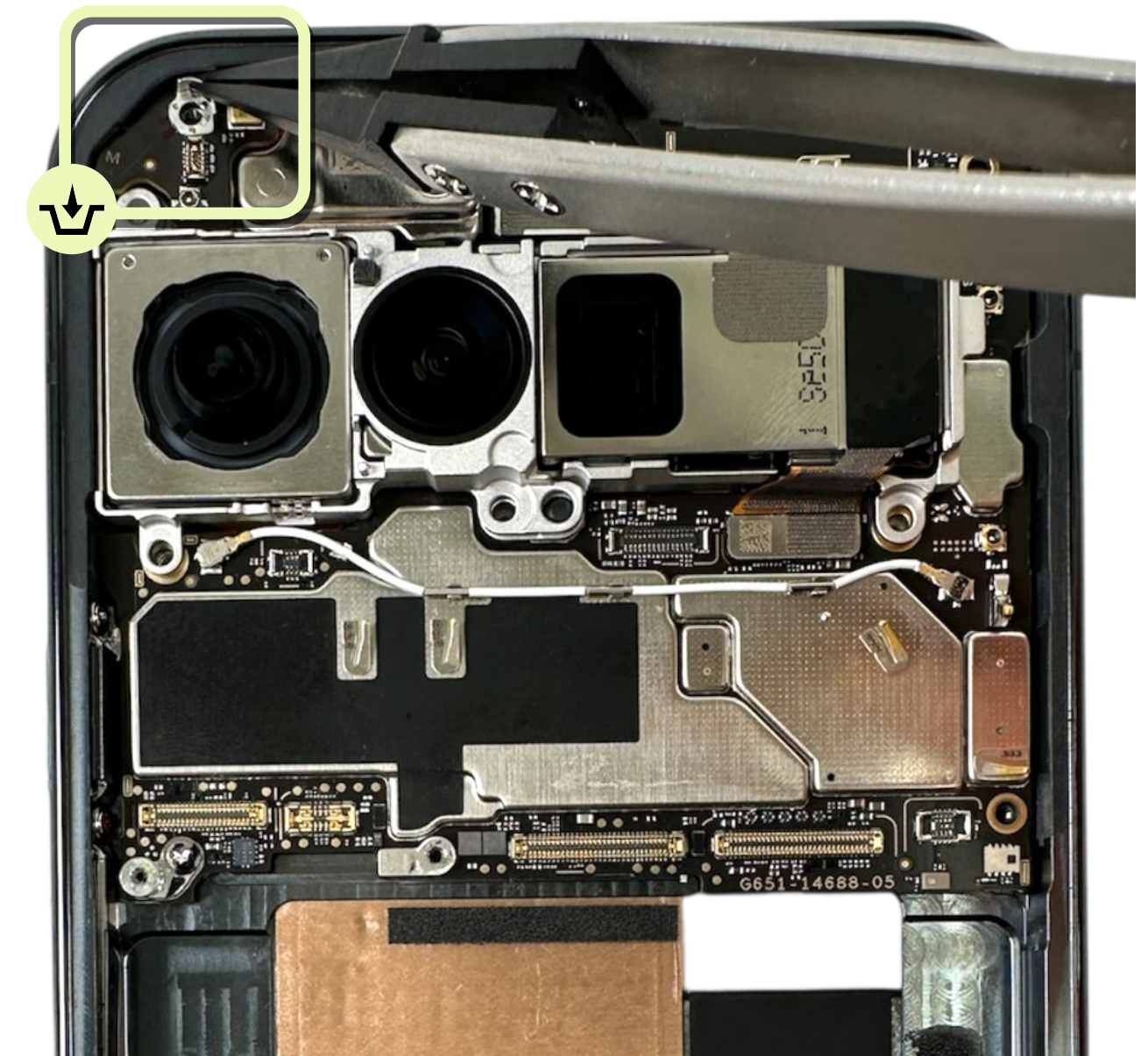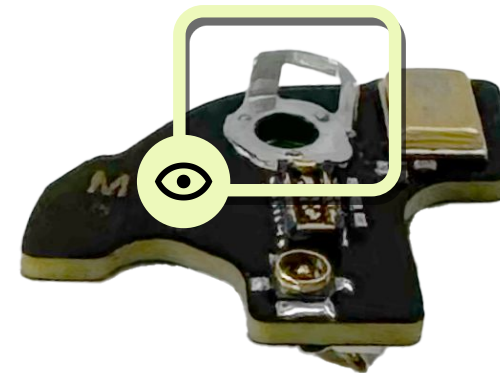
Secure the ANT4 board

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

Part: G250-07891-04 (screw)

⚠️ **Use caution**

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

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

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Buckle the coaxial cable

Buckle the **coaxial cable connectors** with an **ESD spudger**.

Part: G821-01174-02 (coaxial cable)

> ### Note
>
> Ensure that the connector is in the **right position**.
>
> Check if the cable is fully attached to the **logic board** and the **ANT4 board**.

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

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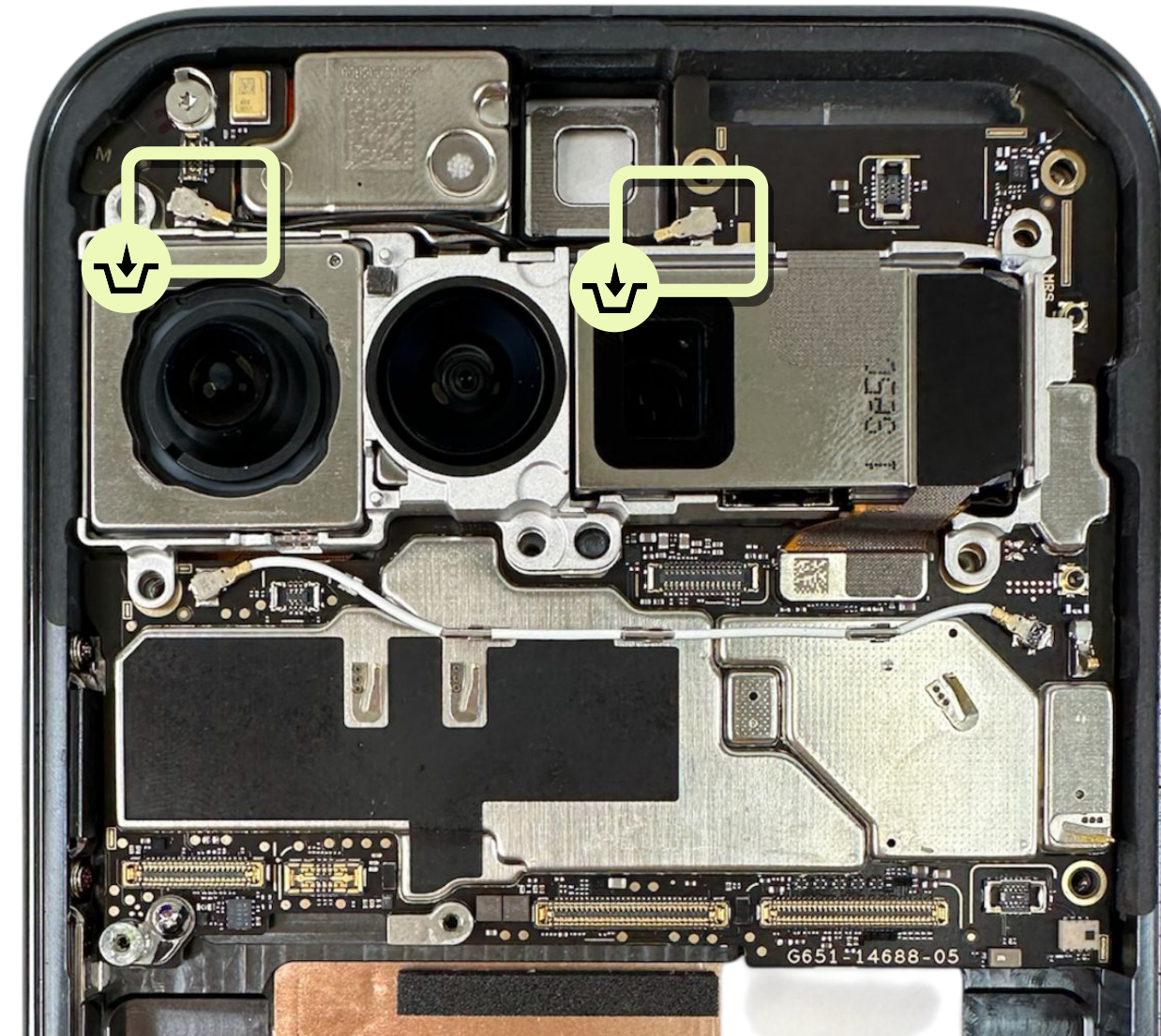
Reuse that SPAM flex

- Clean the adhesive residue on the **SPAM flex** with **ESD tweezers**.

- Use a **dust-free cloth** with **IPA** to clean the surface.

- Attach the **SPAM flex PSA** to the reused SPAM flex according to the outline.

Part: G949-01381-00 (SPAM flex)

Part: G806-16166-00 (SPAM flex PSA)

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

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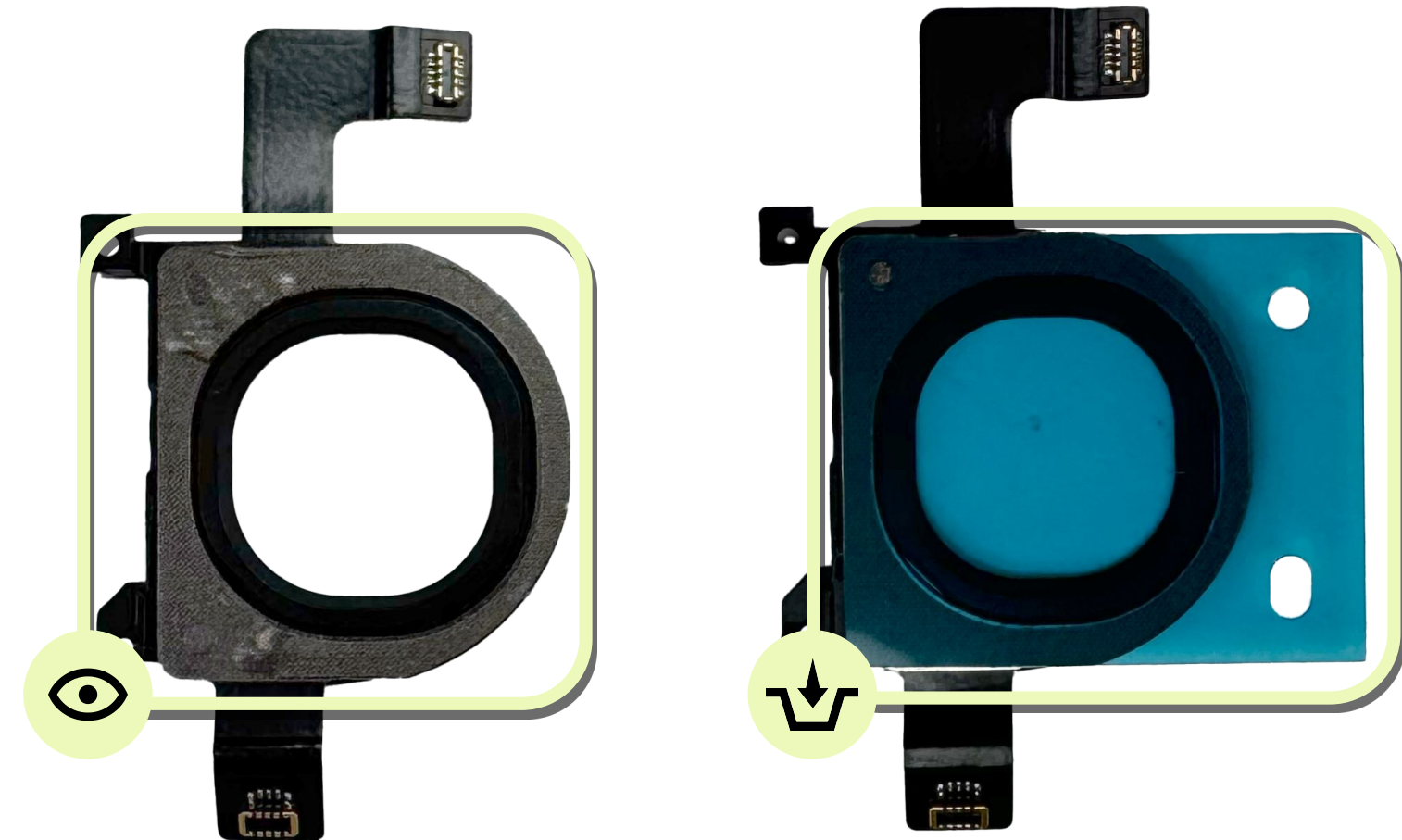
Assemble the SPAM flex

- Apply the **SPAM flex** around the leftmost **camera**.

- Buckle the **two SPAM flex connectors**.

Part: G949-01381-00 (SPAM flex)

⚠ **Use caution**

Remove the **SPAM flex adhesive liner** before assembly.

Avoid touching the **rear camera lenses**.

💡 **Note**

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

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

Pixel 10 Pro XL Repair Manual V1.0   ©Google 2025 | Page 140
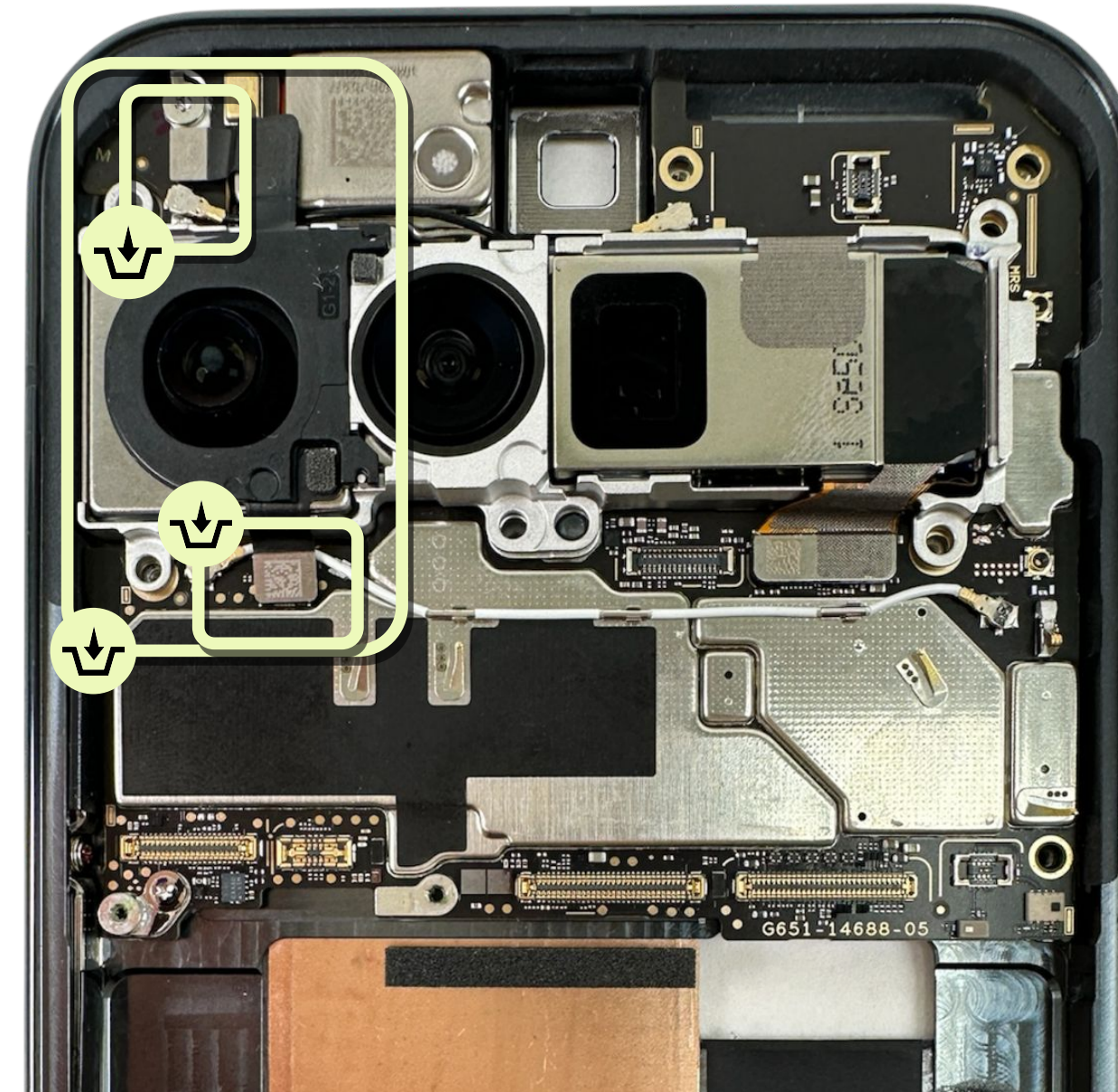
Assemble the ANT4 cowling

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

Part: G730-09426-02 (ANT4 cowling)

Note

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

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

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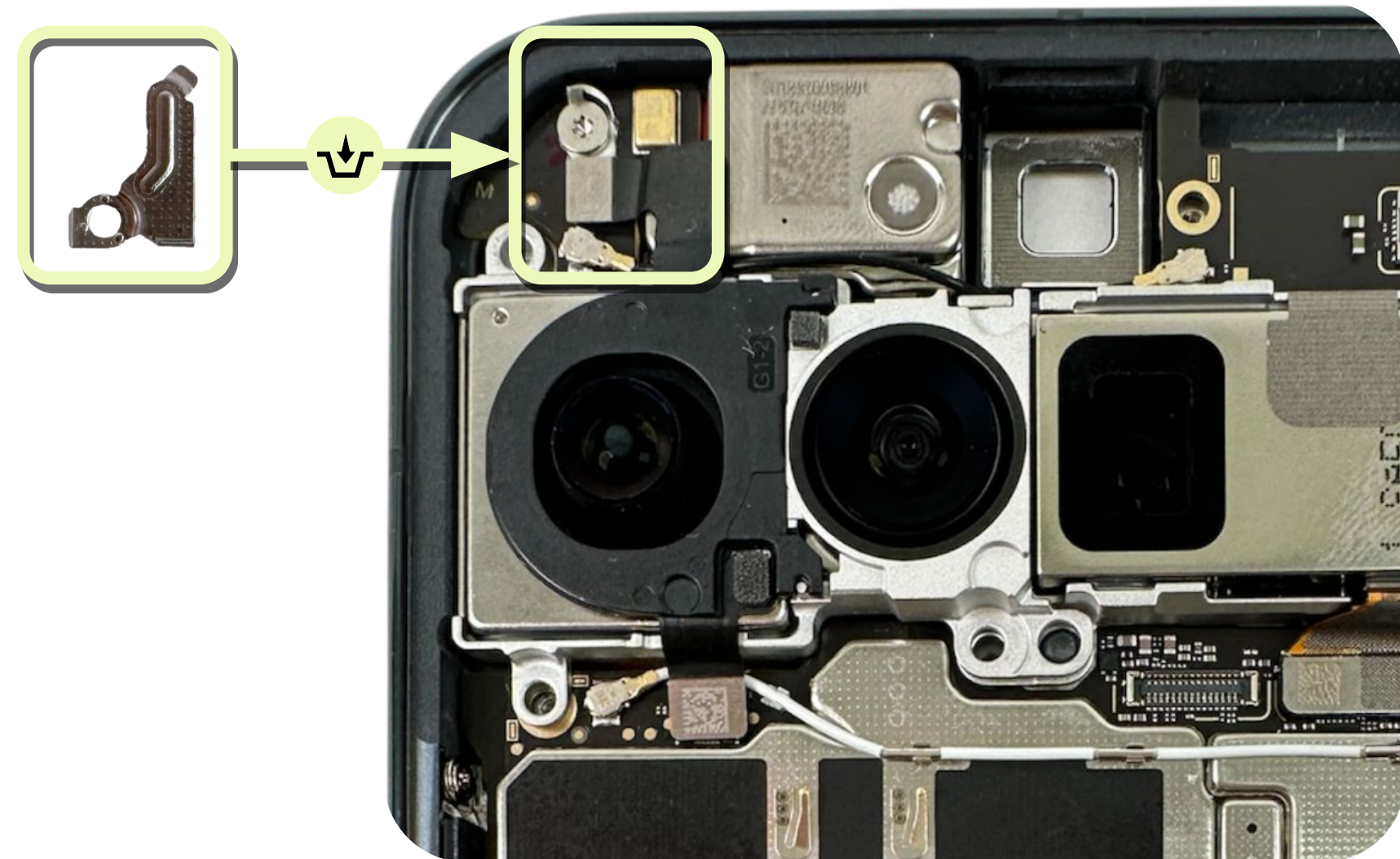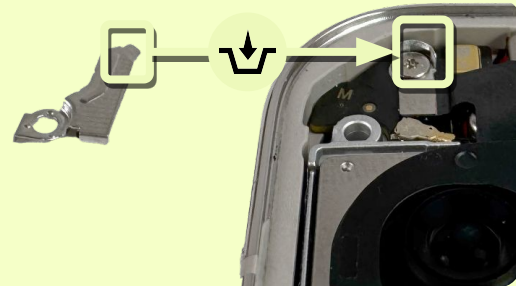
Fasten the screw

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

Part: G250-07891-04 (screw)

⚠️ **Use caution**

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

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

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Assembly
instructions

mmWave module

Reuse the mmWave module

- Clean the **mmWave TIM** residue with the **ESD spudger**.

- Use a **dust-free cloth** with **IPA** where needed.

Part: G949-01383-00 (mmWave module)

Note

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

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

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Apply the thermal pad_mmWave

- Align the **thermal pad_mmWave** with **ESD tweezers** and press gently with your hand.

- Carefully remove the **liner**.

Part: G864-01053-01 (thermal pad_mmWave)

Note

Undamaged **mmWave TIM** could be reused.

Otherwise, they might need to be replaced.

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

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

Pixel 10 Pro XL Repair Manual V1.0   ®Google 2025 | Page 145
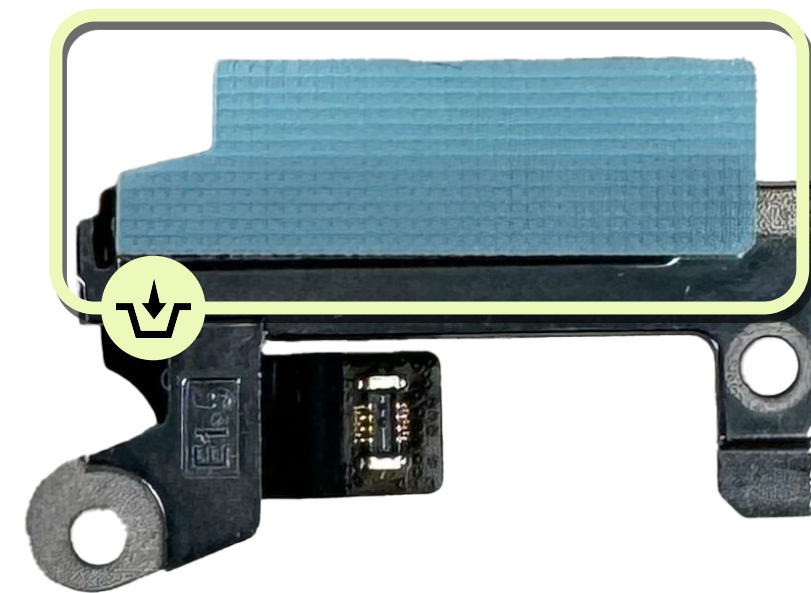
Assemble the mmWave module or coaxial cable cowling

Assemble the **mmWave module** or the **coaxial cable cowling**.

Part: G949-01383-00 (mmWave module)

Part: G850-00697-01 (coaxial cable cowling)

mmWave SKU

Sub6 SKU

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

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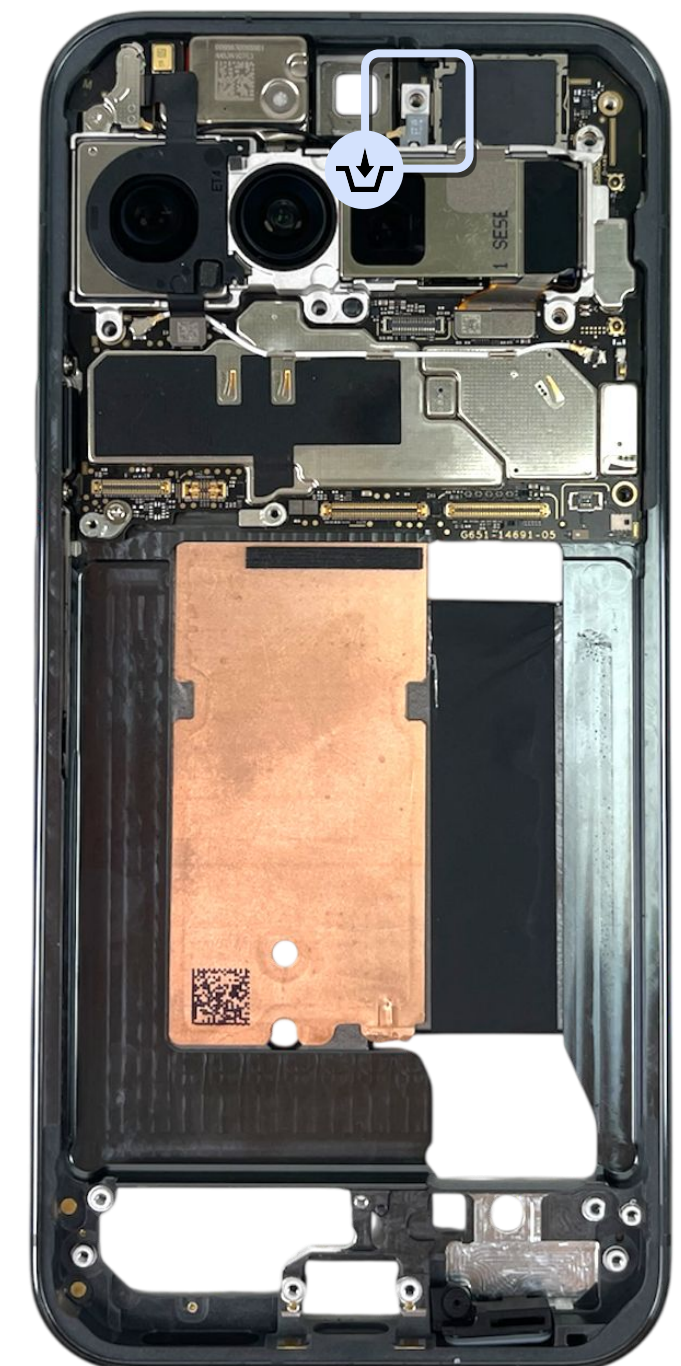
Connect the mmWave module

Buckle the **mmWave module connector**.

Part: **G949-01383-00** (mmWave module)

> ### Note
>
> Check that the **connector** is fully attached to the **logic board**.
>
> This step is only present for the **mmWave SKU**.

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

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Fasten the screws

Fasten the **mmWave module** or **coaxial cable cowling screws** with a **torx plus 3IP screwdriver**.
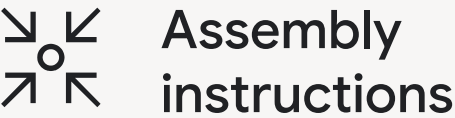
Part: G250-07839-04 (screw)

Part: G250-07891-04 (screw)

⚠️ **Use caution**

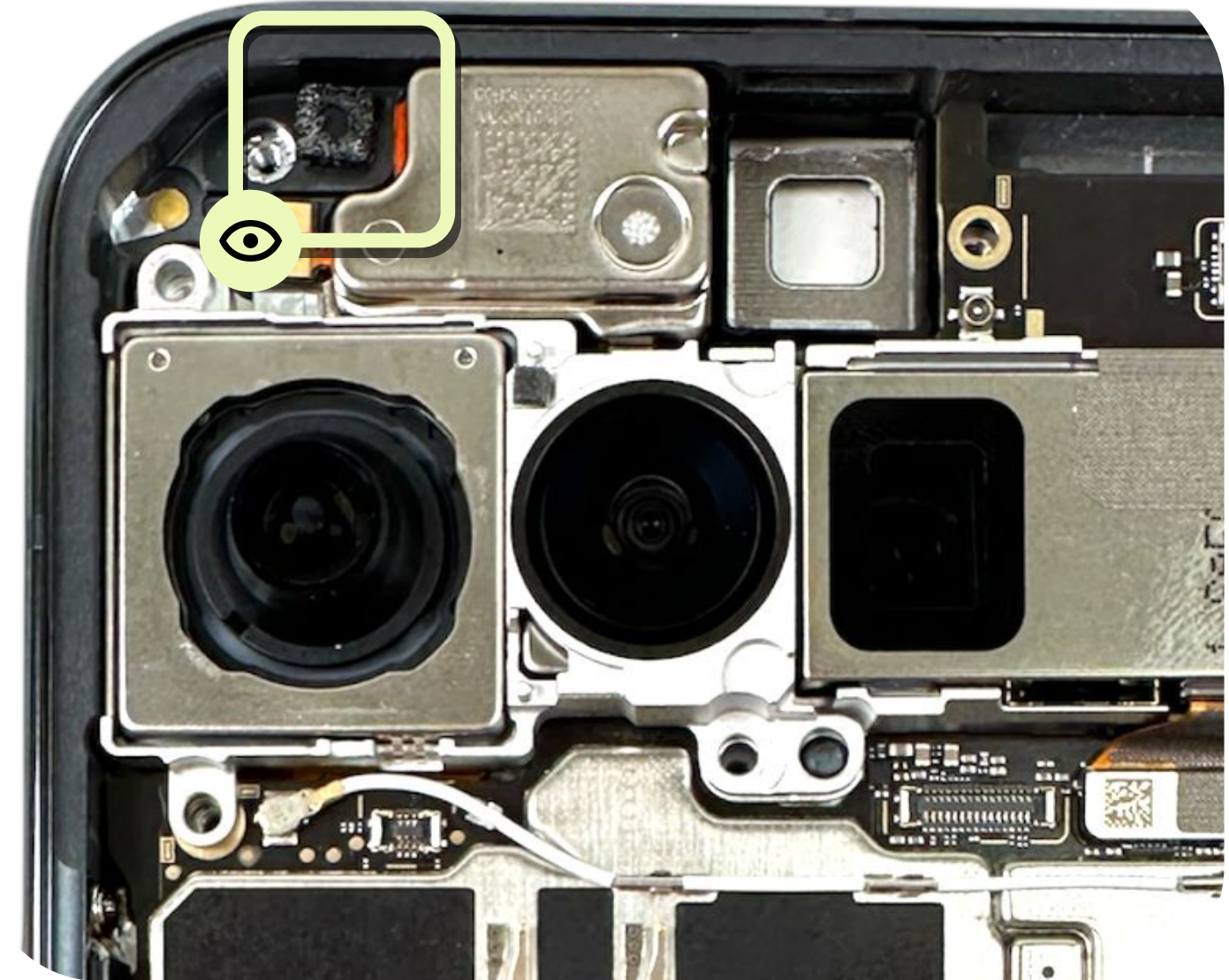Incorrect use of the screwdriver could cause injury to you or others or damage to the product.

mmWave SKU

A: G250-07839-04   B: G250-07891-04

Sub6 SKU

A: G250-07839-04*2

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

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Assembly
instructions
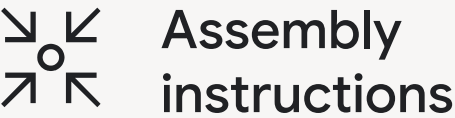
Front camera

Clean the enclosure

- Clean the adhesive residue on the **enclosure** with **ESD tweezers**.

- Use a **dust-free cloth** with **IPA** to clean the surface.

Part: **multiple part numbers** (enclosure)

> **Note**
>
> Undamaged **FCAM adhesive** could be reused.
>
> Otherwise, it might need to be replaced.

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

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Reuse the front camera

- Clean the adhesive residue on the **front camera** with **ESD tweezers**.

- Use a **dust-free cloth** with **IPA** to clean the surface.

Part: **G949-01379-00** (front camera)

⚠ **Use caution**

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

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

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Attach the FCAM adhesive

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

- Apply a gentle pressure to ensure proper attachment.

Part: **G806-14192-01** (FCAM adhesive)

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

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Insert the front camera

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

- Apply gentle pressure on the **camera** area to ensure proper attachment.

- Connect the **front camera** to the **logic board**.

Part: G949-01379-00 (front camera)

⚠️ **Use caution**

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

💡 **Note**

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

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

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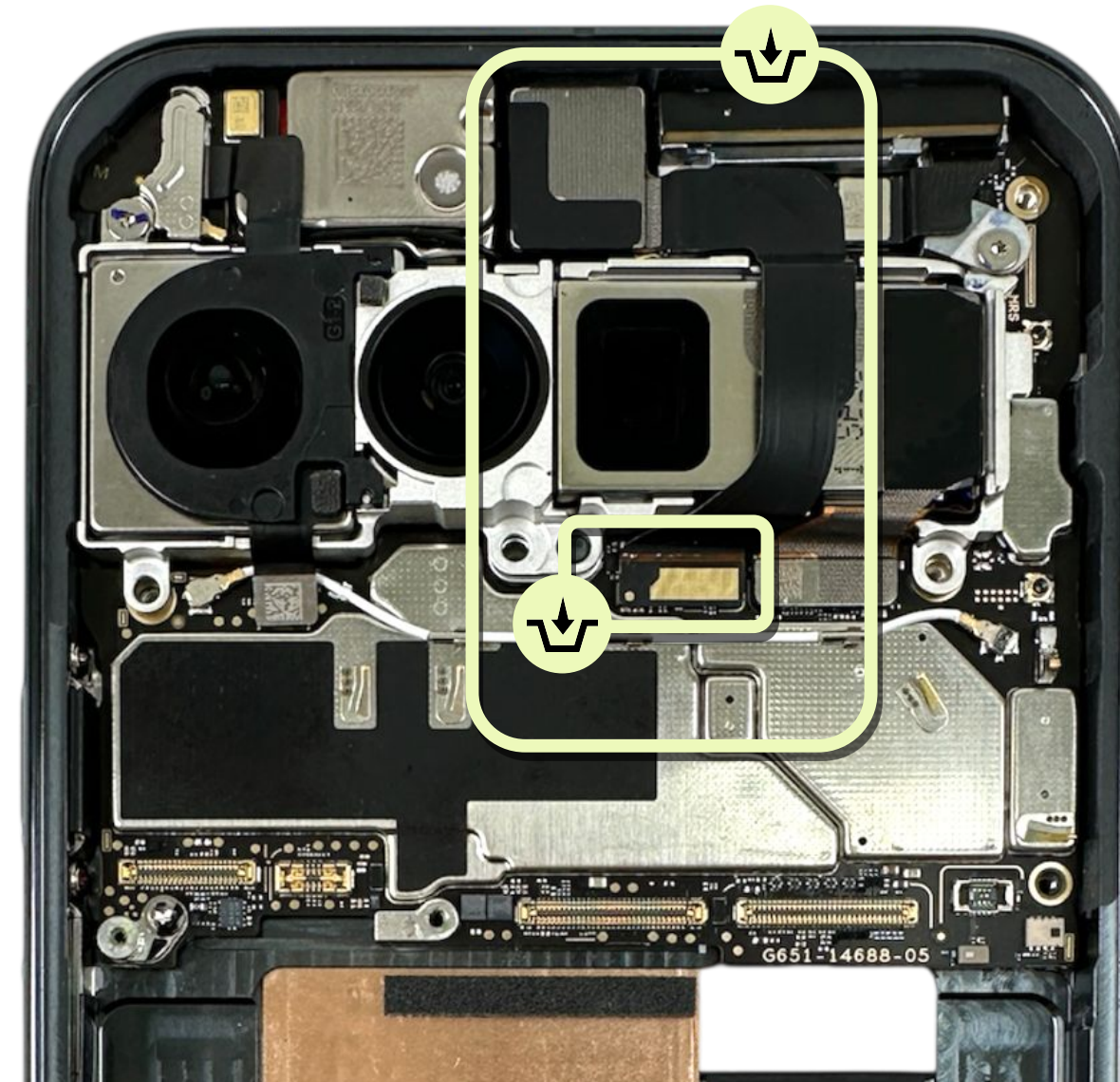
Assemble the FCAM cowling

- Gently push and route the **coaxial cable** under **top speaker** and **front camera module** bottom side.

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

Part: G730-09322-01 (FCAM cowling_mmWave)

Part: G730-09322-11 (FCAM cowling_Sub6)

💡 **Note**

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

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

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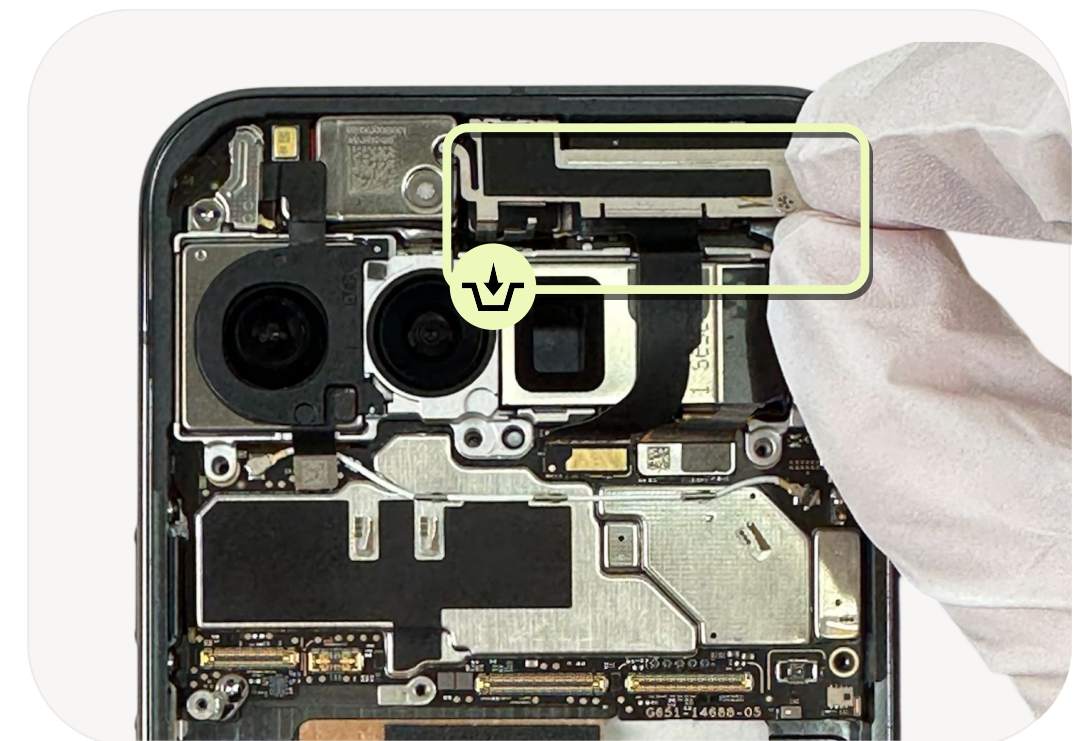
Fasten the screw

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

Part: G250-07891-04 (screw)

⚠️ **Use caution**

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

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

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Assembly
instructions

Display

Reuse the enclosure

- Inspect the **enclosure** for any adhesive residue.

- Carefully and slowly peel off the adhesive by hand in one piece.

- Use an **ESD spudger** to clean it. If needed, use a **dust-free cloth** with **IPA** to clean the surface.

Part: **multiple part numbers** (enclosure)

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

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Apply the primer on enclosure

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

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

Part: **multiple part numbers** (enclosure)

⚠️ **Use caution**

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

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

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Align the adhesive

- Slowly remove the larger liner from the **adhesive sheet** to expose the adhesive.

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

Part: G806-15948-01 (display adhesive)

⚠️ **Use caution**

Don't touch the **adhesive**.

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

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

💡 **Note**

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

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

Activate the adhesive (first time)

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

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

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Remove the liner (first layer)

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

> ⚠ ### Use caution
>
> ***Don't*** **remove the second layer of the liner.**

Grip the tab here.

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

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Activate the adhesive (second time)

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

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

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Check the display

General rules

Use caution

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

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

Spring

No

OK

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

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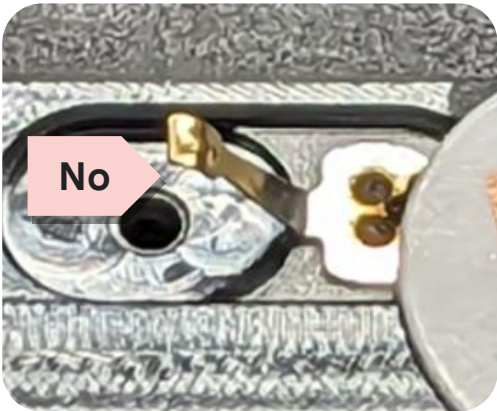
Prepare the display

- If you use a new **display**, remove the **shim** at the bottom,**label,P-sensor and FCAM liners.**

- Inspect the reused **display** for any adhesive residue.

- Carefully and slowly peel off the adhesive with your hand in one piece.

- Use the **ESD spudger** to clean it. If needed, use a **dust-free cloth** with **IPA** to clean the surface.

Part: G949-01360-00 (display module)

Reused display

New display

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

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Apply the primer on display

- Apply **IPA** around the edges of the **display module** with a **dust-free cotton swab**.

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

Part: G949-01360-00 (display module)

⚠ **Use caution**

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

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

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

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Reuse the DJ flex

- Clean any **DJ shear PSA** residue from the **DJ flex** with an **ESD spudger**.

- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: **G652-10410-04** (DJ flex)

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

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Connect the DJ flex

- Apply the **DJ flex PSA** to the **DJ flex** and position it to the lower right corner of the slanted indent on the **flex**.

- Connect the **DJ flex** to the **display module**.

Part: G652-10410-04 (DJ flex)

Part: G806-14563-01 (DJ flex PSA)

⚠️ ## Use caution

Don't remove the liner yet.

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

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

💡 ## Note

Avoid damage to the springs.

Be mindful of the orientation of the flex.

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

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Insert the display cowling

- Gently push the **display cowling** inside the left hook to snap it into place.

- Remove the **DJ flex PSA liner** and gently press on the adhesive area to ensure attachment.

> **Part: G730-09238-01** (display cowling)

⚠️ **Use caution**

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

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

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Remove the liner (second layer)

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

Pick the tab here.

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

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Position the DJ flex

Insert the loose end of the **DJ flex** into the opening on the **enclosure**.

⚠ Use caution

Don't touch the adhesive.

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

Make sure that the flex **doesn't** go through the lower opening to avoid graphite breakage.

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

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Activate the adhesive

- Attach the **display module** to the **enclosure** by aligning and lowering it vertically.

- Press along the **display bezel** with both hands to ensure proper attachment.

⚠️ **Use caution**

Begin by pressing the center of the top edge, then continue along the two longer sides, and finish with the bottom edge.

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

Pixel 10 Pro XL Repair Manual V1.0   ©Google 2025 | Page 171
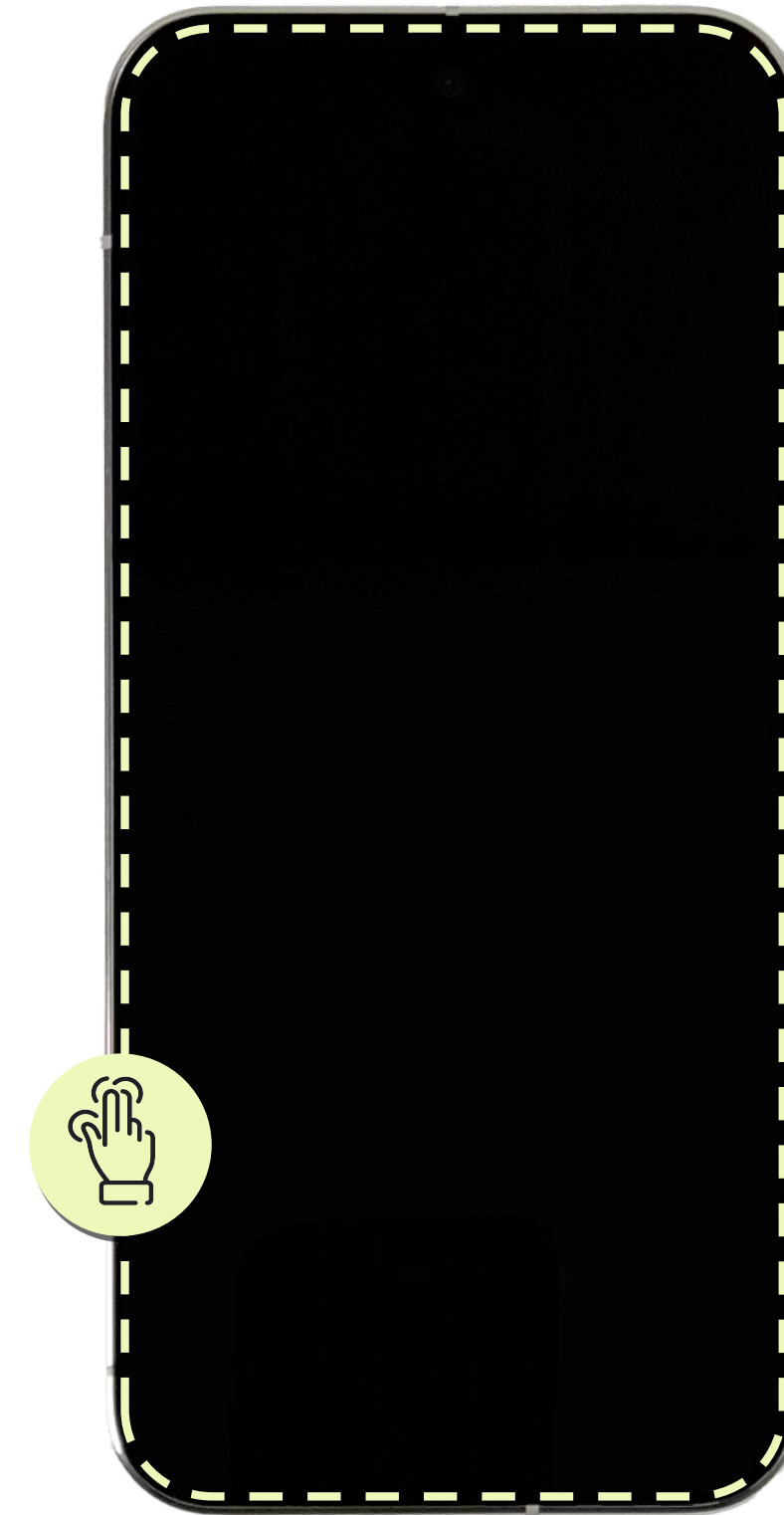
Connect the display

Connect the **DJ flex** to the **logic board**, applying even pressure across the connector.

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

Pixel 10 Pro XL Repair Manual V1.0   ®Google 2025 | Page 172
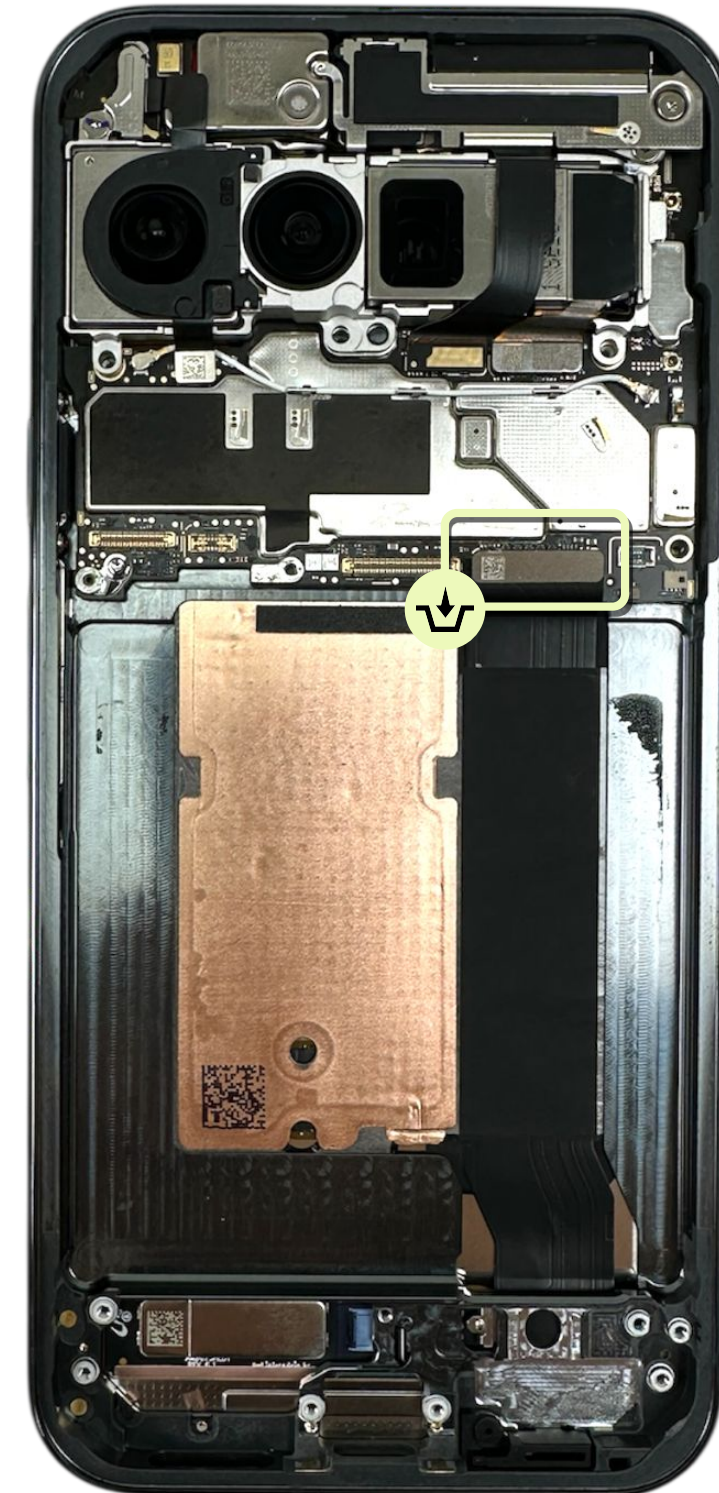
Assembly
instructions

Vibrator

Prepare for vibrator attachment

- Remove any **adhesive** residue in the vibrator slot with the **ESD spudger**.

- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

Part: **multiple part numbers** (enclosure)

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

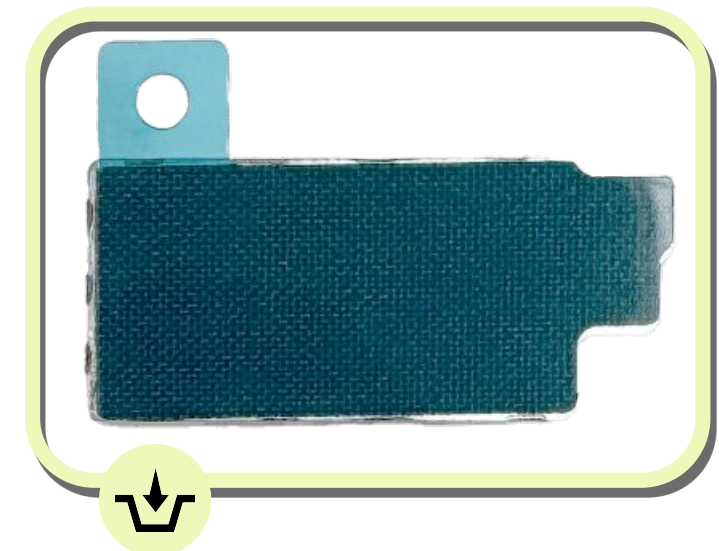Pixel 10 Pro XL Repair Manual V1.0   ®Google 2025 | Page 174

Reuse the vibrator

- Clean the residue on the **vibrator** with **ESD tweezers**.

- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

- Replace the **vibrator PSA**.

Part: **G710-07500-00** (vibrator)

Part: **G806-13155-00** (vibrator PSA)

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

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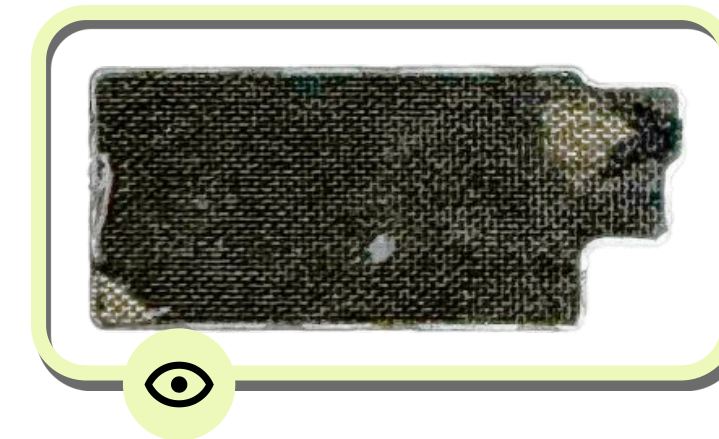
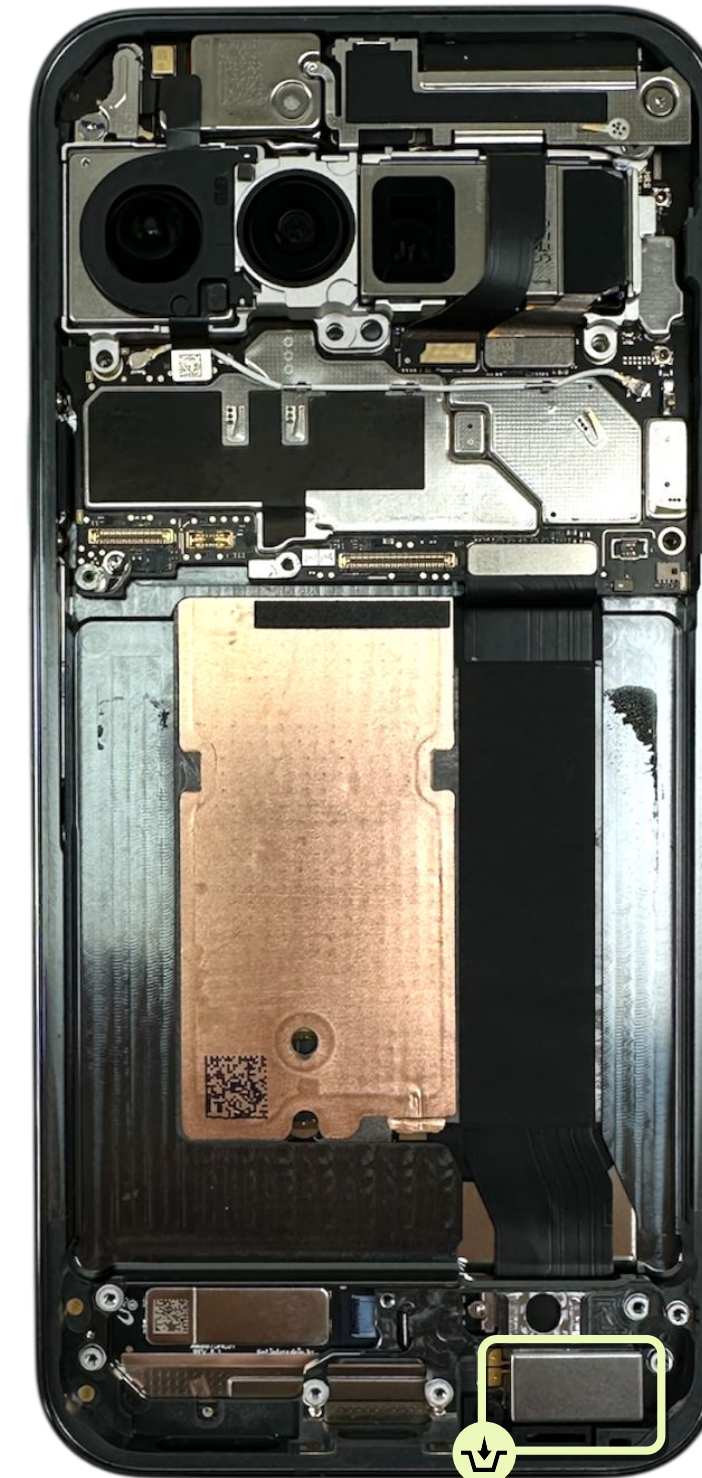# Attach the vibrator

- Remove the **vibrator PSA liner**.

- Slot the **vibrator** into place according to the upper right corner.

- Press for **5 seconds** manually.

Part: G710-07500-00 (vibrator)

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

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Assembly
instructions

Bottom speaker

Apply the dry lube

- Remove the **metal mesh liner** on the **enclosure**.

- Apple dry lube to the **bottom speaker** port.
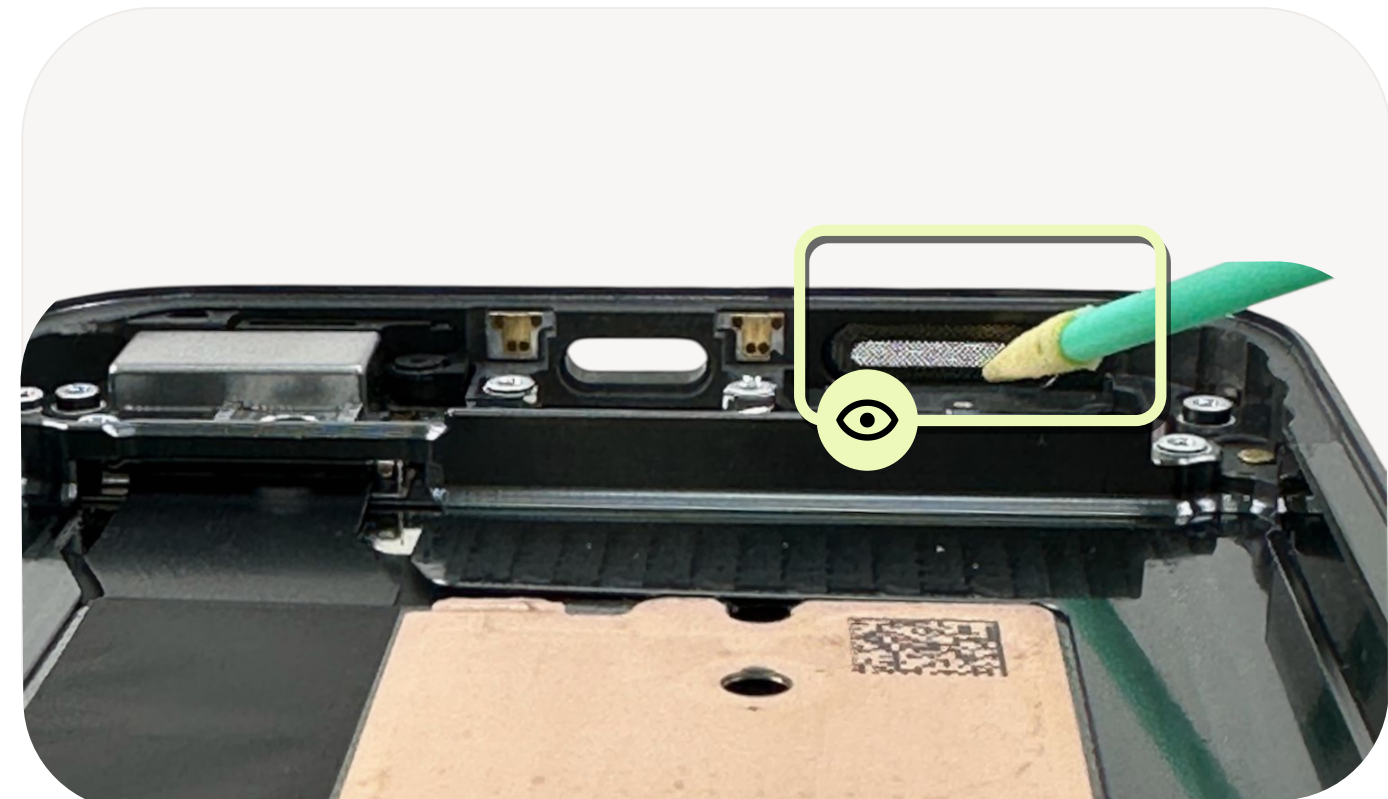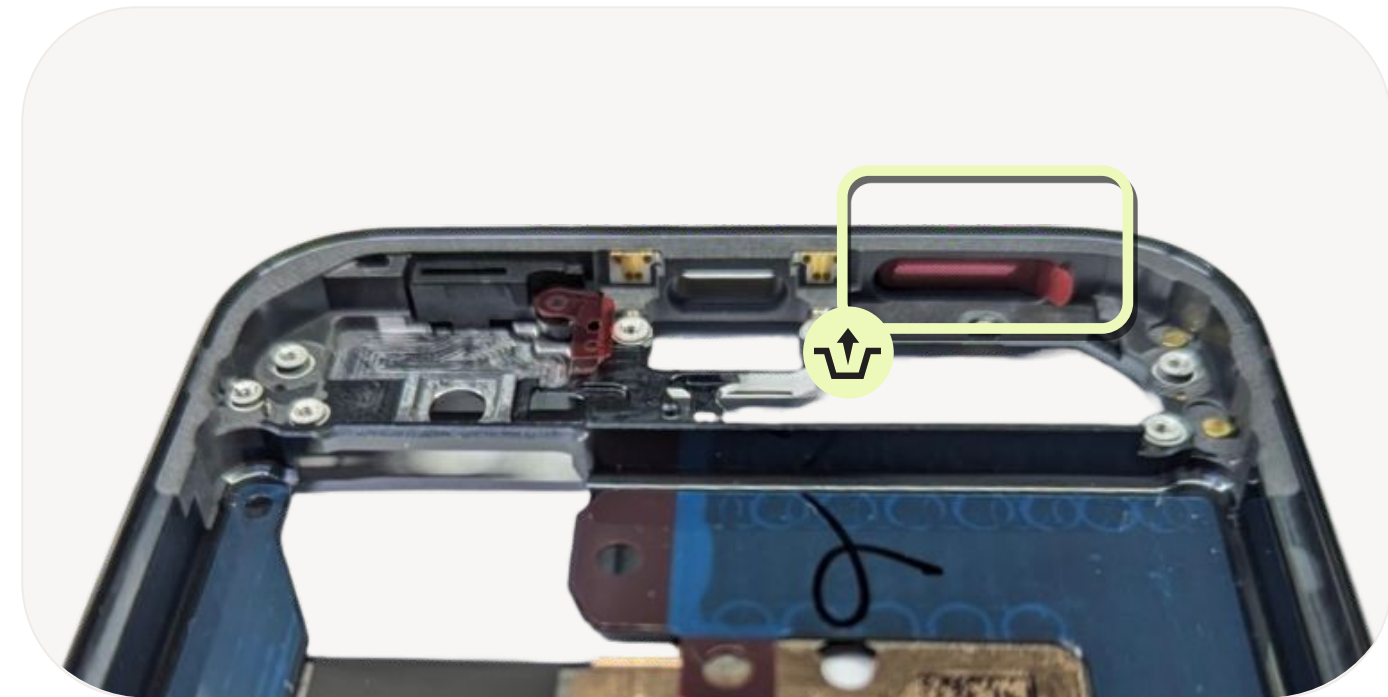
Enclosure   Top speaker   Rear camera   Logic board   ANT4 board   mmWave module   Front camera   Display   Vibrator   **Bottom speaker**   Chin board   Battery   BG sub

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Embed the bottom speaker

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

Part: G863-00655-01 (bottom speaker)

○ **Note**

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

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

Pixel 10 Pro XL Repair Manual V1.0   ®Google 2025 | Page 179
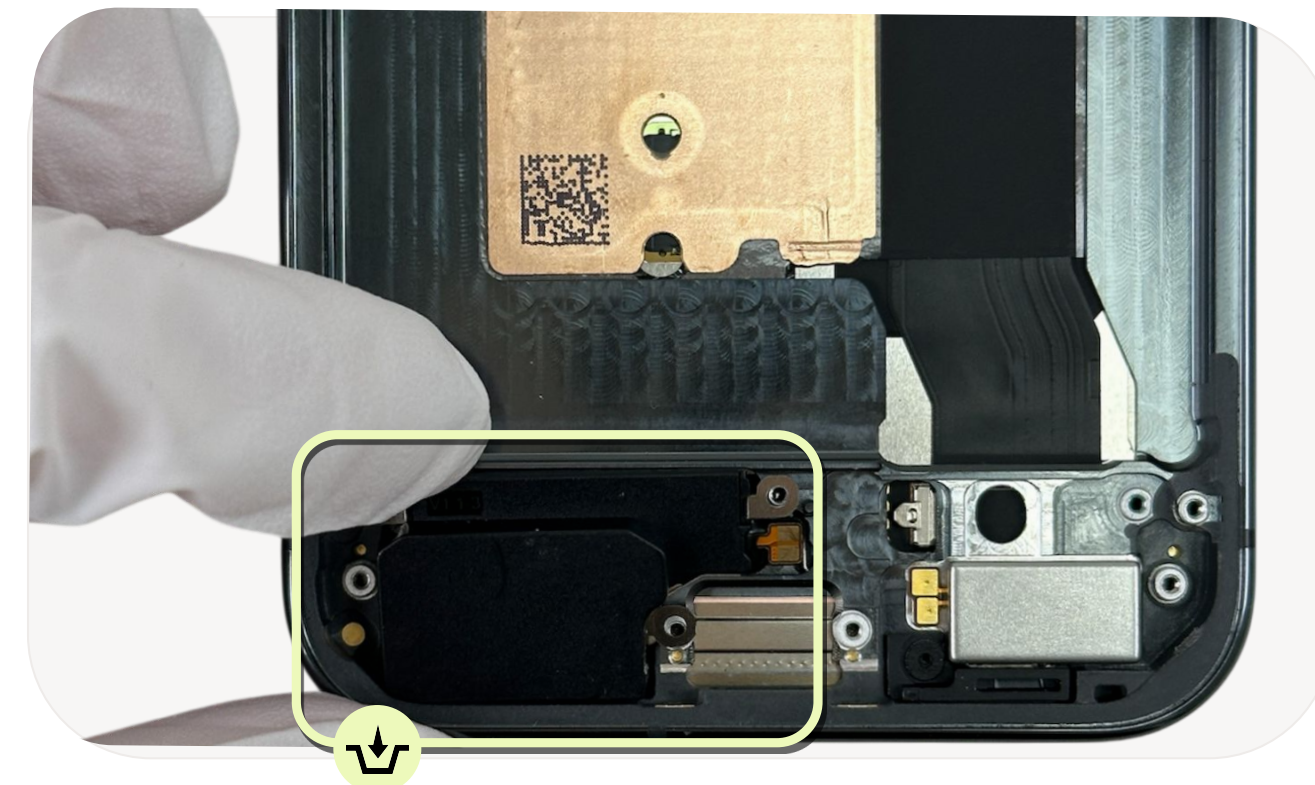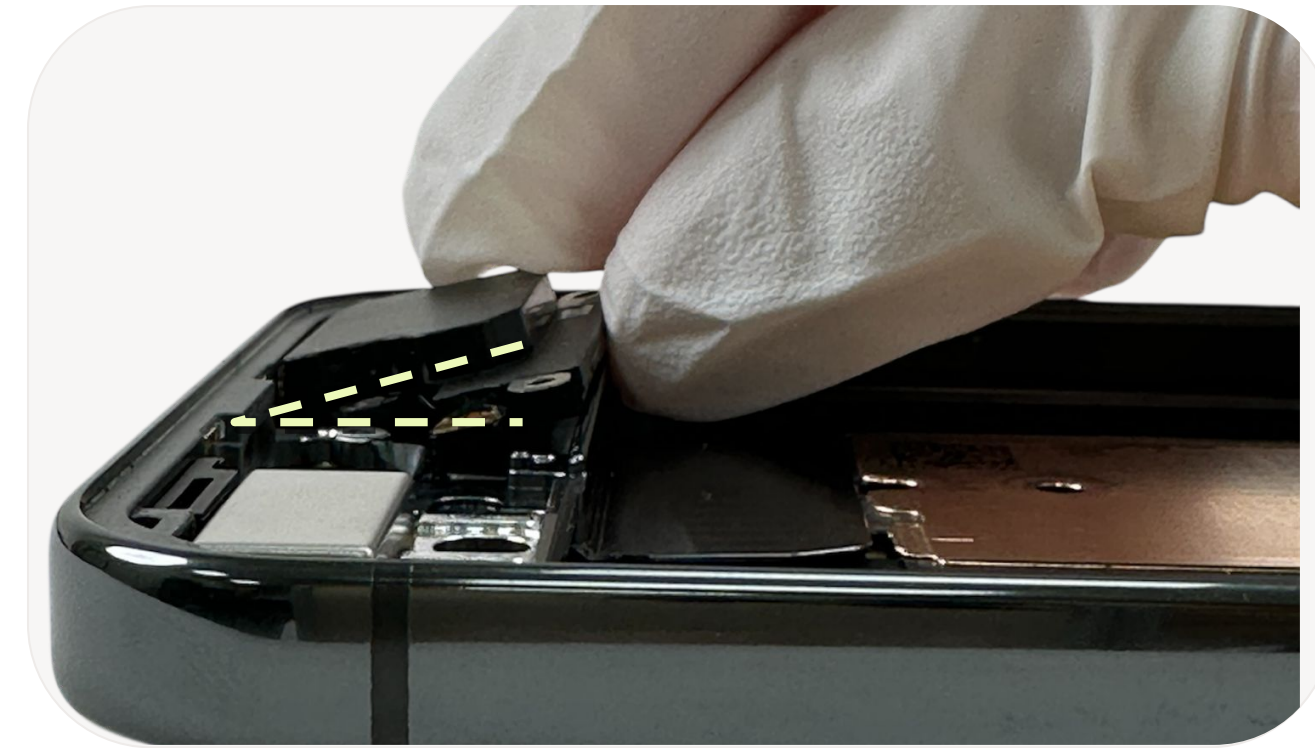
Assembly
instructions

Chin board

Check the chin board

General rules

Use caution

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

Be **particularly cautious** to prevent any damage to the springs.

Bird view
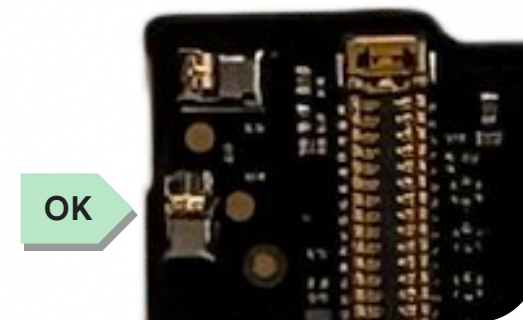
OK

No

Missing

Side view

OK

No

Broken

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

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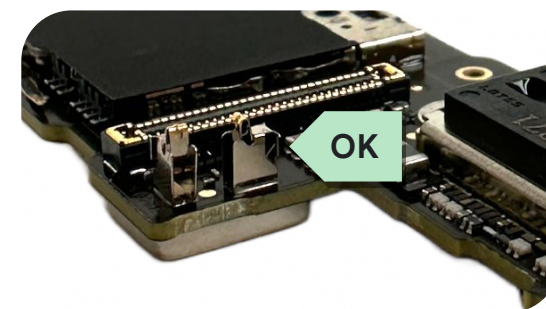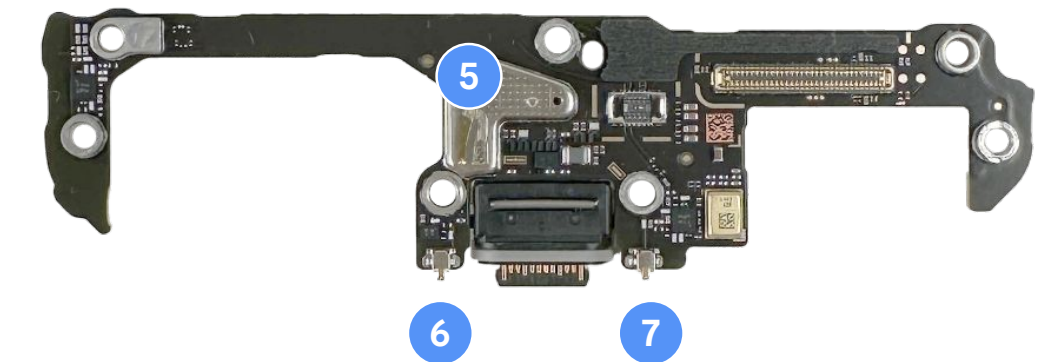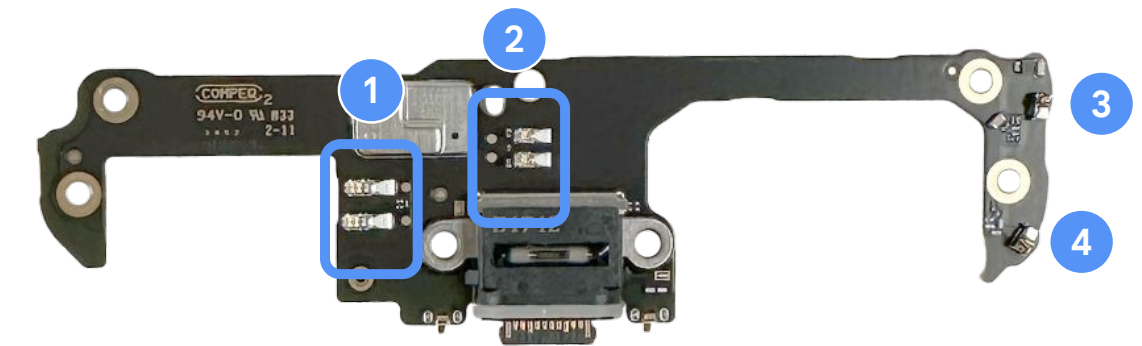
Prepare the chin board

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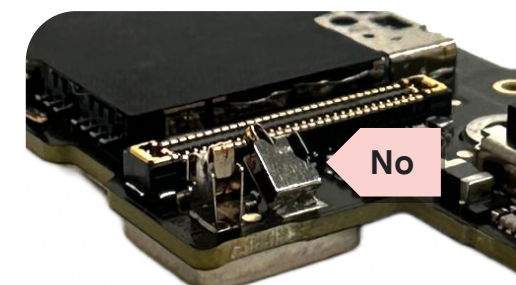
- When you replace the **chin board**, remove the **mic1 Kapton** from the new **chin board**.

Part: **multiple part numbers** (enclosure)

Part: **G949-01377-00** (chin board)

⚠️ **Use caution**

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

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

💡 **Note**

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

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

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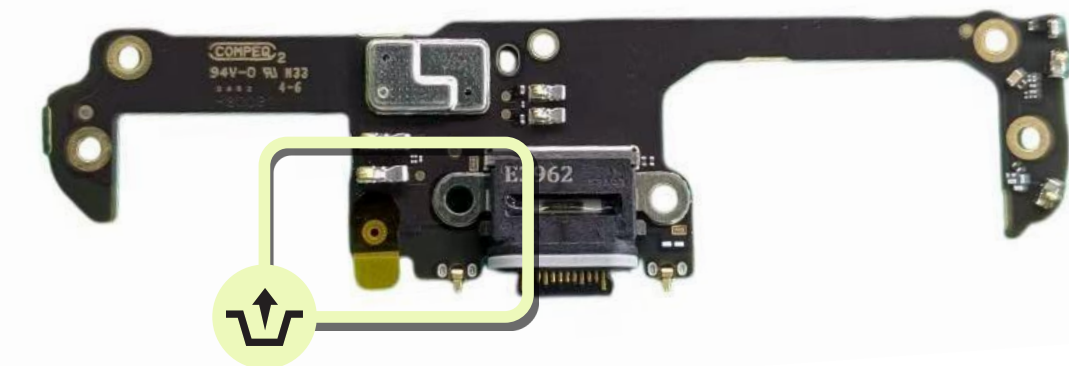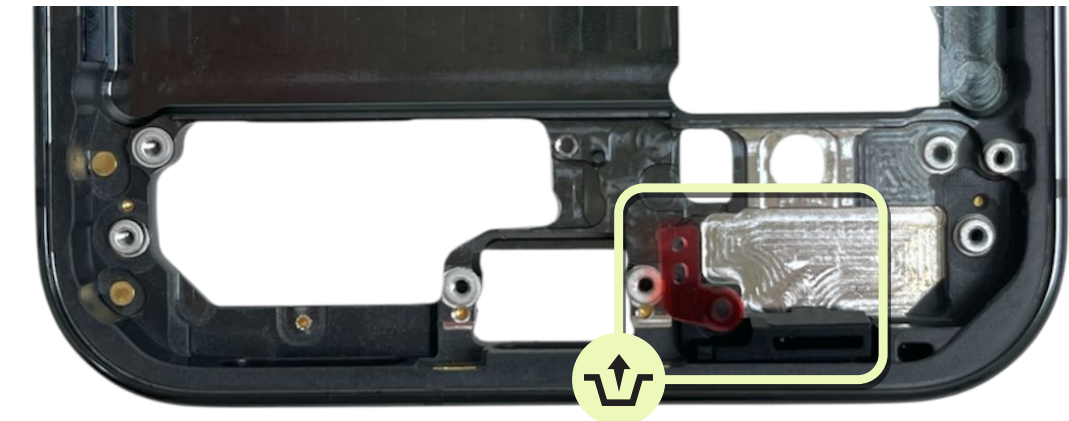
Install the chin board

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

- Fix the **chin board screw** with a **torx plus 3IP screwdriver**.

Part: **G250-07839-04** (screw)

Part: **G949-01377-00** (chin board)

⚠️ **Use caution**

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

💡 **Note**

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

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

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

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Reuse the CJ flex

- Clean the residue on the **CJ flex** with **ESD tweezers**.

- Use a **dust-free cloth** with **IPA** to clean the surface where needed.

- Replace the **CJ flex PSA** to the very top of the curve.

Part: G949-01382-00 (CJ flex)

Part: G806-14188-01 (CJ flex PSA)

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

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Connect the chin board

- Remove the **CJ flex PSA liner** and gently press on the adhesive area to ensure attachment.

- Connect the **chin board** to the **logic board** with the **CJ flex**.

> ○ **Note**
>
> Ensure that **CJ flex connectors** are fully attached to both the **logic board** and the **chin board**.

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

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Assembly
instructions
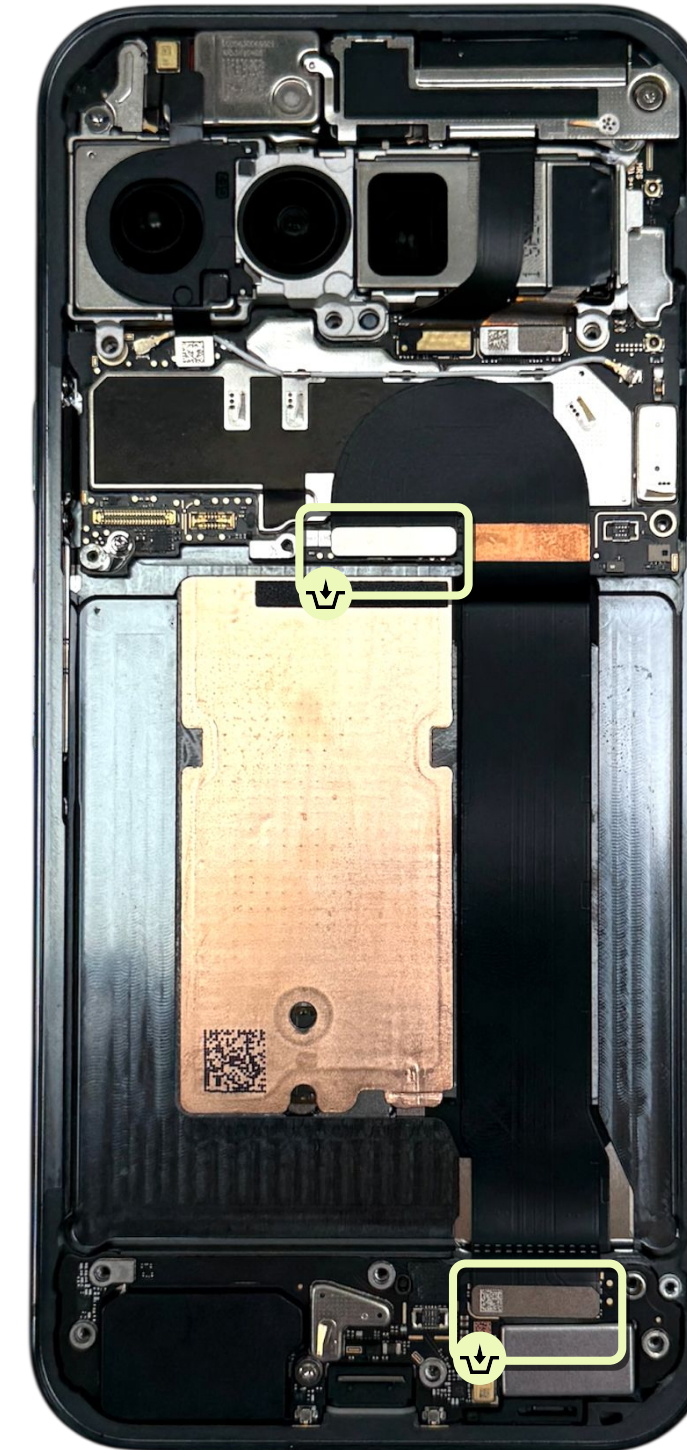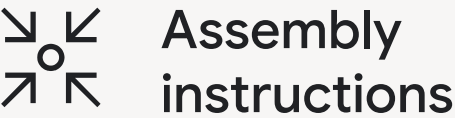
Battery

Clean the residue

- Remove any adhesive residue in the **battery** area with the **ESD spudger**.

- Apply **IPA** with a **dust-free cloth** where needed.

Part: multiple part numbers (enclosure)

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

Pixel 10 Pro XL Repair Manual V1.0   ©Google 2025 | Page 187
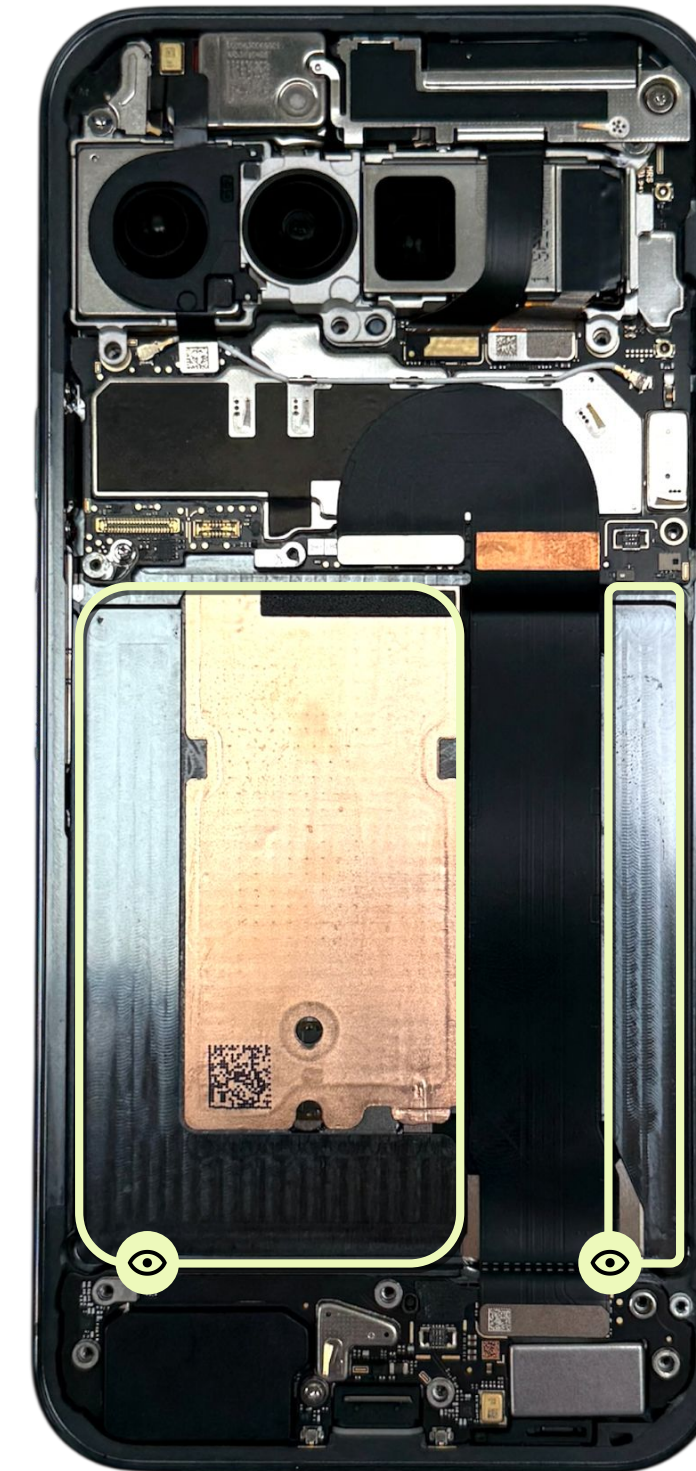
Apply the primer on enclosure

- Before installation, remove any debris or loose screws from the **enclosure**.

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

- Apply **3M 111 primer** onto the **enclosure** with a **dust-free cotton swab**.

> **Part: multiple part numbers** (enclosure)

⚠ **Use caution**

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

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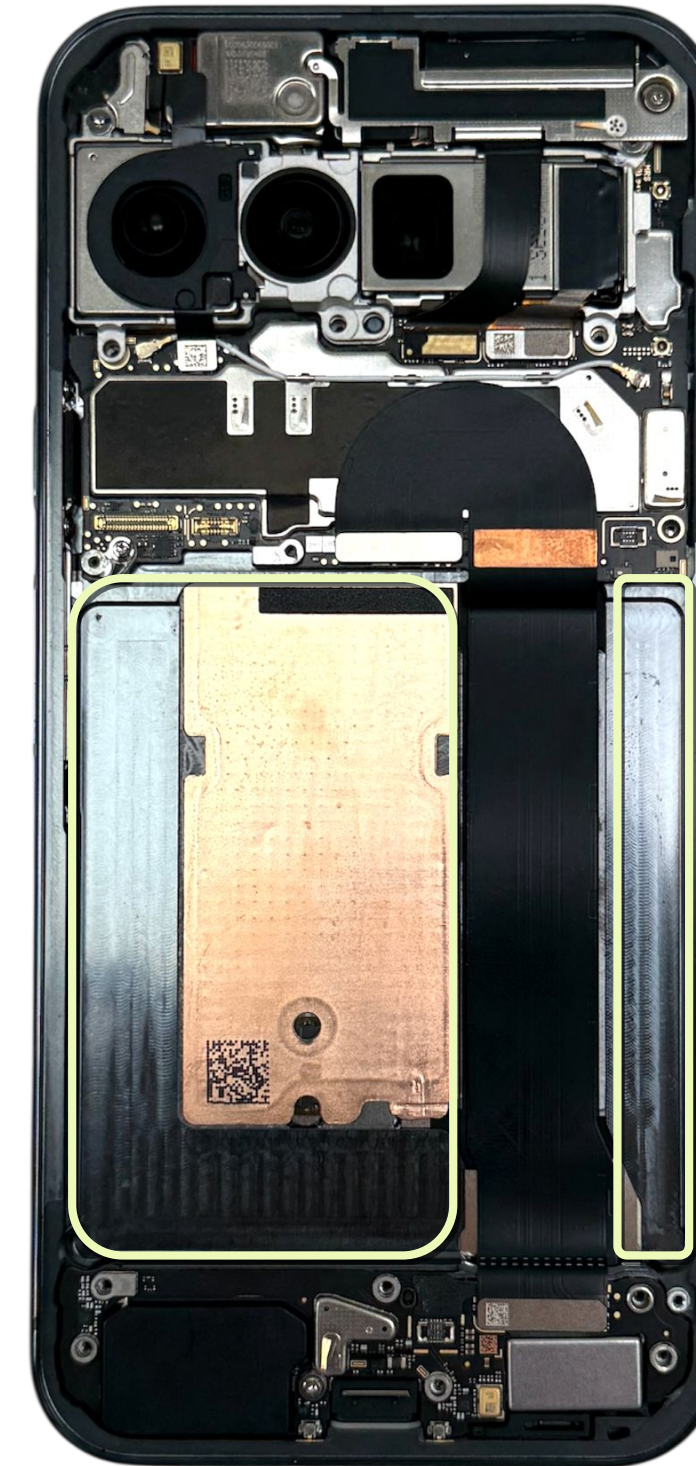
Align the battery

- Confirm the **battery** model to be **G6X1Z**. If the model number is not **G6X1Z**, *don't* use the battery.

- Use a **absorption-bulb** to pick up the **battery**.

- Align the **white liner** to the lower left corner of the depression.

- Gently press the **battery** down with the **suction bulb**.

- Remove the **white liner** from the **top side** to lift it up after assembling the battery.

Part: G949-01616-00 (battery)

> ⚠️ **Use caution**
>
> Review safety precautions before work.

> 💡 **Note**
>
> The **white liner** makes sure the **battery** is in the correct position.
>
> *Don't* remove it prior installation.

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

Pixel 10 Pro XL Repair Manual V1.0   ©Google 2025 | Page 189
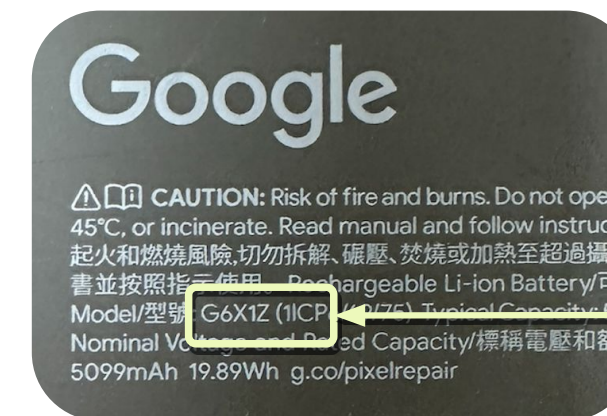
Prepare to press

- Place the **universal holder** in the **C5 position** on the **universal base 12 mm**.

- Place the **universal supporting rubber** and the **universal holder limiting block** through the positioning posts on the **universal holder** in this order, as shown in Fig 1.

- Place the **device** and **lock** it as shown in Fig 2.

- Place the **Pixel 10 Pro XL battery press rubber** through the positioning posts as shown in Fig 3.

> 💡 **Note**
>
> Make sure that the **universal holder** is in the right position.
>
> Ensure that the **display** is already assembled.

Fig 1

Fig 2

Fig 3

Enclosure   Top speaker   Rear camera   Logic board   ANT4 board   mmWave module   Front camera   Display   Vibrator   Bottom speaker   Chin board   **Battery**   BG sub
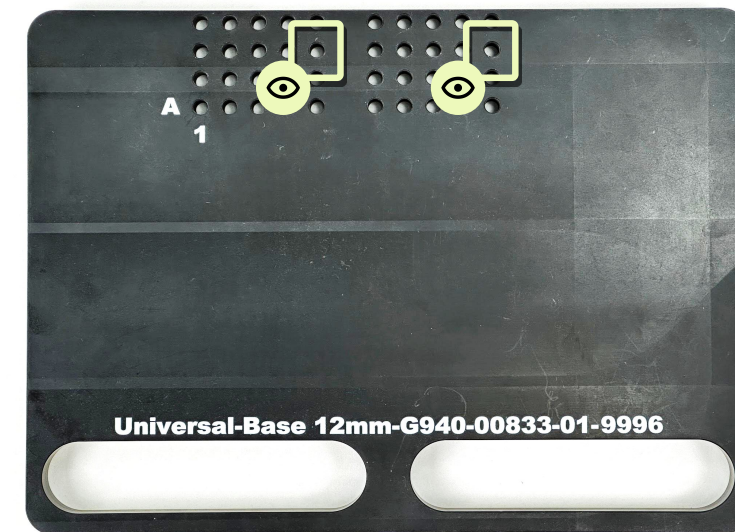
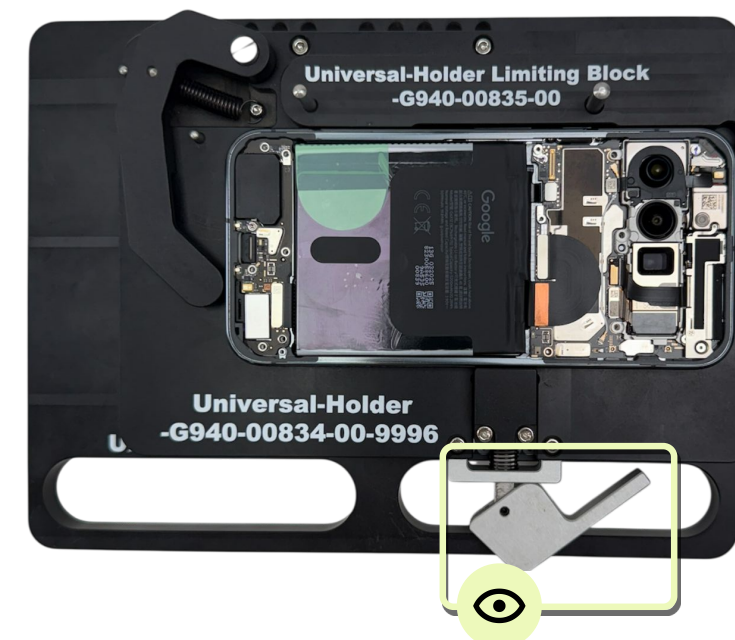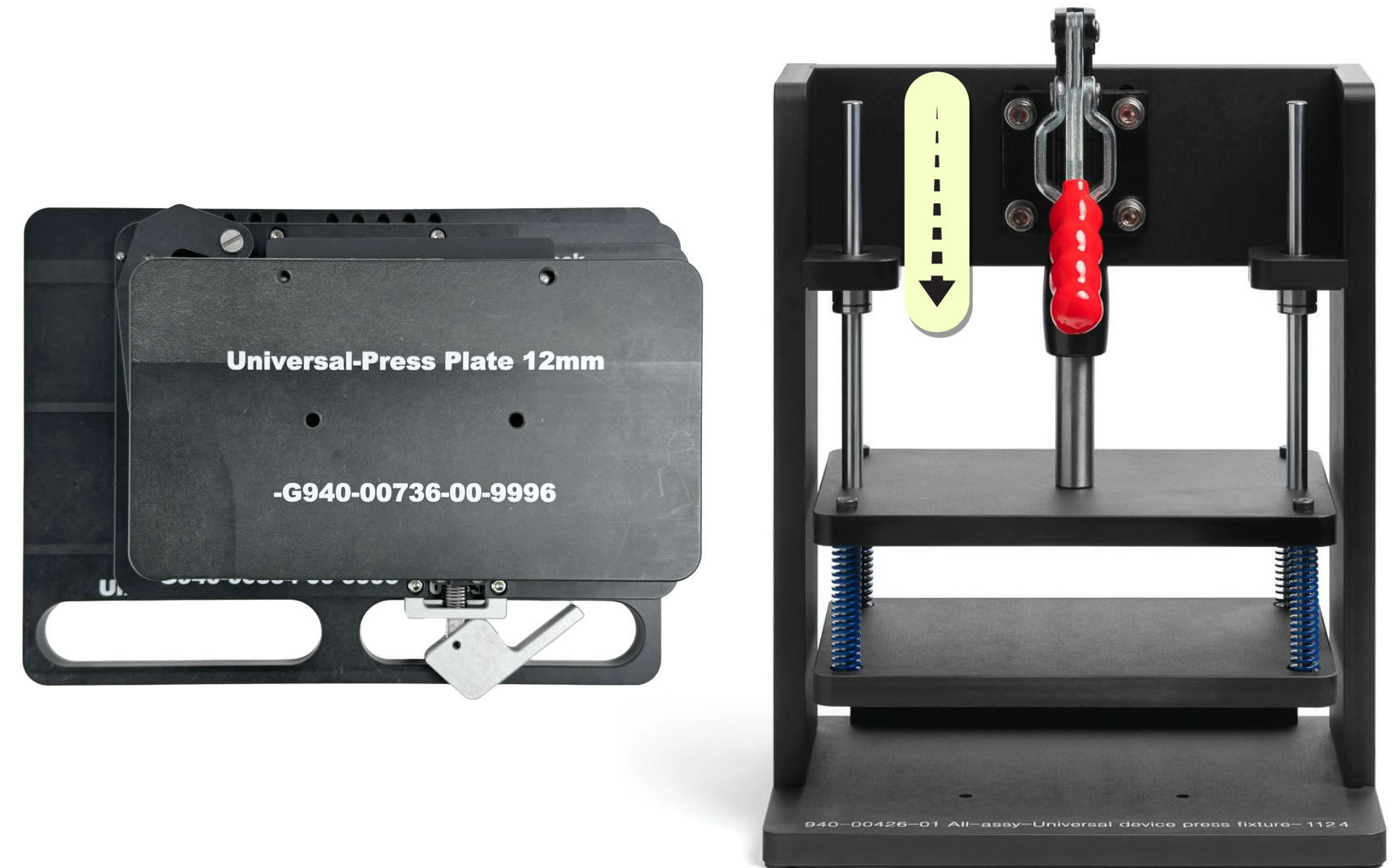Pixel 10 Pro XL Repair Manual V1.0   ©Google 2025 | Page 190

Prepare to press

- Place the **universal press plate 12 mm** on the **universal base 12 mm**.

- Place the stack in the **universal press fixture**.

- Press the handle down for **30 seconds**.

- Restore the handle to the original position and remove the stack.

⚠️ **Use caution**

Keep hands clear during operation.

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

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Attach the RJ flex

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

Part: G652-10612-01 (RJ flex)

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

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

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Secure the CLB cowling

- Place the **CLB cowling** in position with **ESD tweezers**, making sure the screw holes align with those of the components below.

- Fasten the **five CLB cowling screws** and **two RJ flex screws** in a sequence with a **torx plus 3IP screwdriver**.

Part: **G730-09320-01** (CLB cowling)

Part: **G250-08246-05*5** (screw)

Part: **G250-07839-03*2** (screw)

⚠️ **Use caution**

Be careful to avoid damage to the components on the **chin board**.
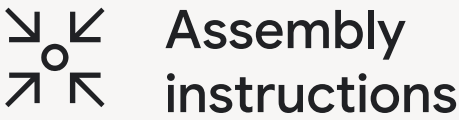
Be careful when you use the screwdriver.

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

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

A: G250-08246-05

B: G250-07839-03

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

Assembly
instructions

BG sub

Place the MLB cowling

- Place the **MLB cowling** in position with **ESD tweezers,** making sure the screw holes align with those of the components below.

- Fasten the **4 MLB cowling screws** in a sequence with a **torx plus 3IP screwdriver.**

Part: G730-09325-14 (MLB cowling)

Part: G250-08246-05*4 (screw)

⚠️ **Use caution**

Be careful when you use the screwdriver.

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

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

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

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Apply the primer on enclosure

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

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

Part: multiple part numbers (enclosure)

⚠️ **Use caution**

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

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

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Connect the battery

- Buckle the **battery connector**.

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

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

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

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Align the adhesive

- Slowly remove the larger liner from the **adhesive sheet** to expose the adhesive.

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

Part: G806-15981-01 (BG adhesive)

⚠️ **Use caution**

Don't touch the **adhesive**.

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

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

💡 **Note**

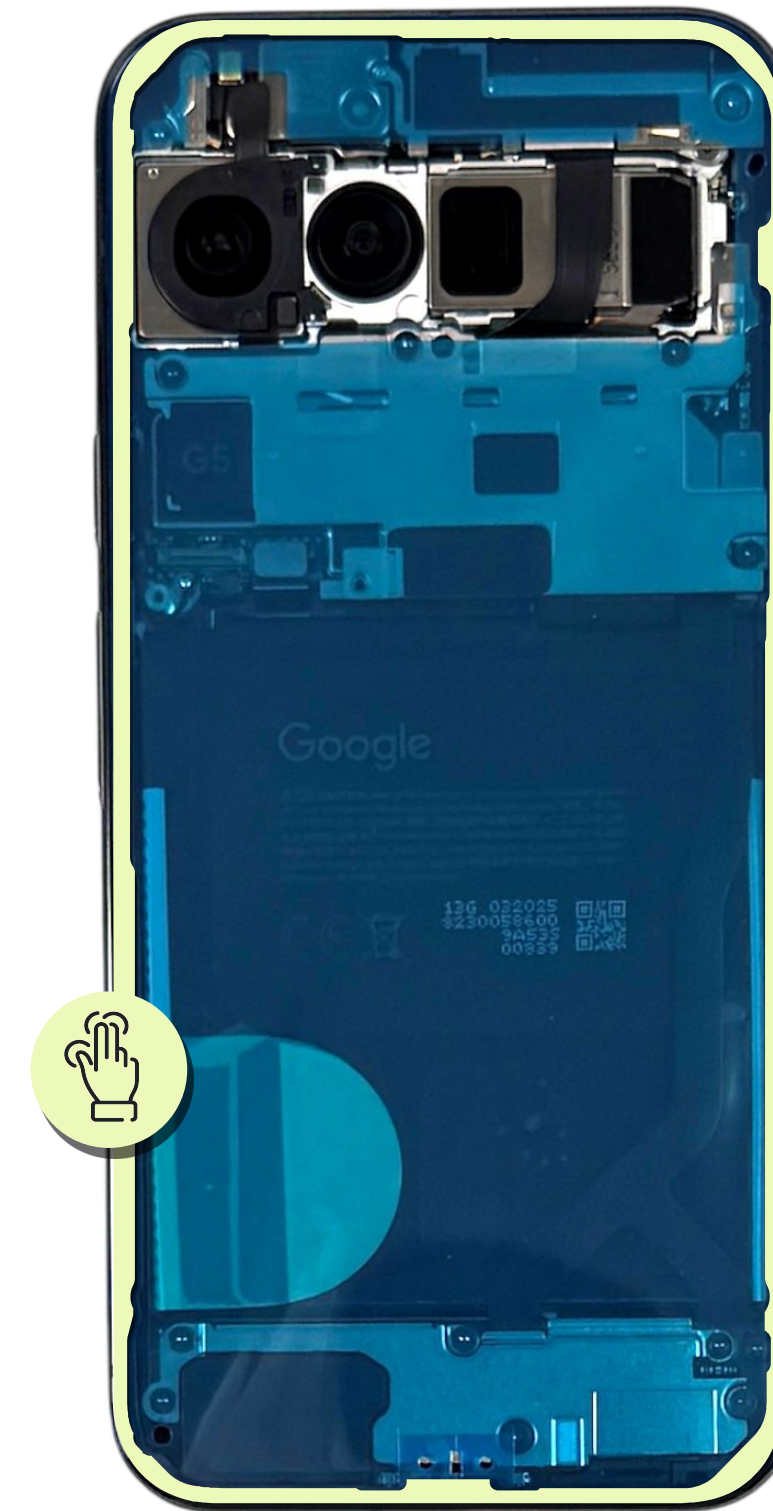Make sure that the **adhesive** fits properly onto the **enclosure**.

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

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Activate the adhesive (first time)

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

⚠️ **Use caution**

Don't touch the RCAM area during the process.

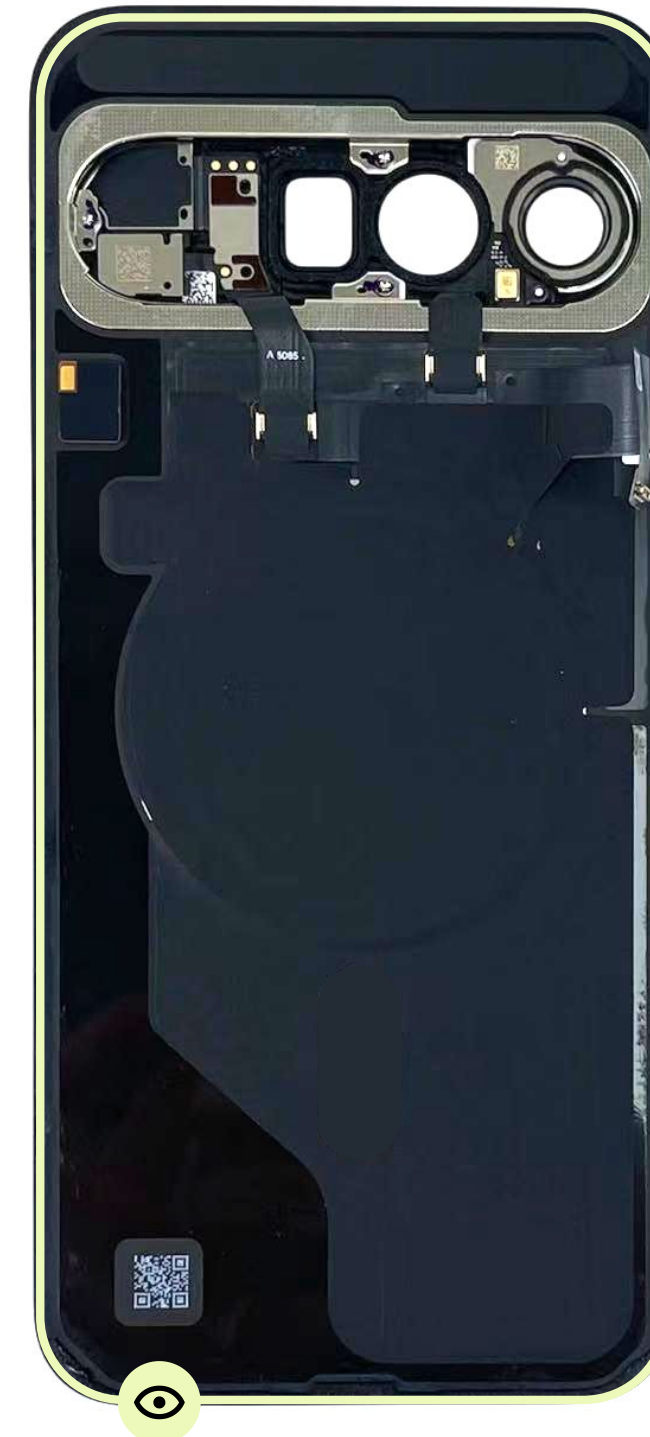Enclosure   Top speaker   Rear camera   Logic board   ANT4 board   mmWave module   Front camera   Display   Vibrator   Bottom speaker   Chin board   Battery   **BG sub**

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Remove the liner (first layer)

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

⚠️ **Use caution**

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

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

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

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Activate the adhesive (second time)

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

⚠️ **Use caution**

Don't touch the RCAM area during the process.

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

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Prepare the BG sub

- When you use a new **BG sub**, remove the **RCAM protective films**.

- Inspect the reused **BG sub** for any adhesive residue.

- Carefully and slowly peel off the adhesive by hand in one piece.

- Use the **ESD spudger** to clean it. Use a **dust-free cloth** with **IPA** to clean the surface if needed.

Part: **multiple part numbers** (BG sub)

⚠️ **Use caution**

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

Reused BG sub

New BG sub

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

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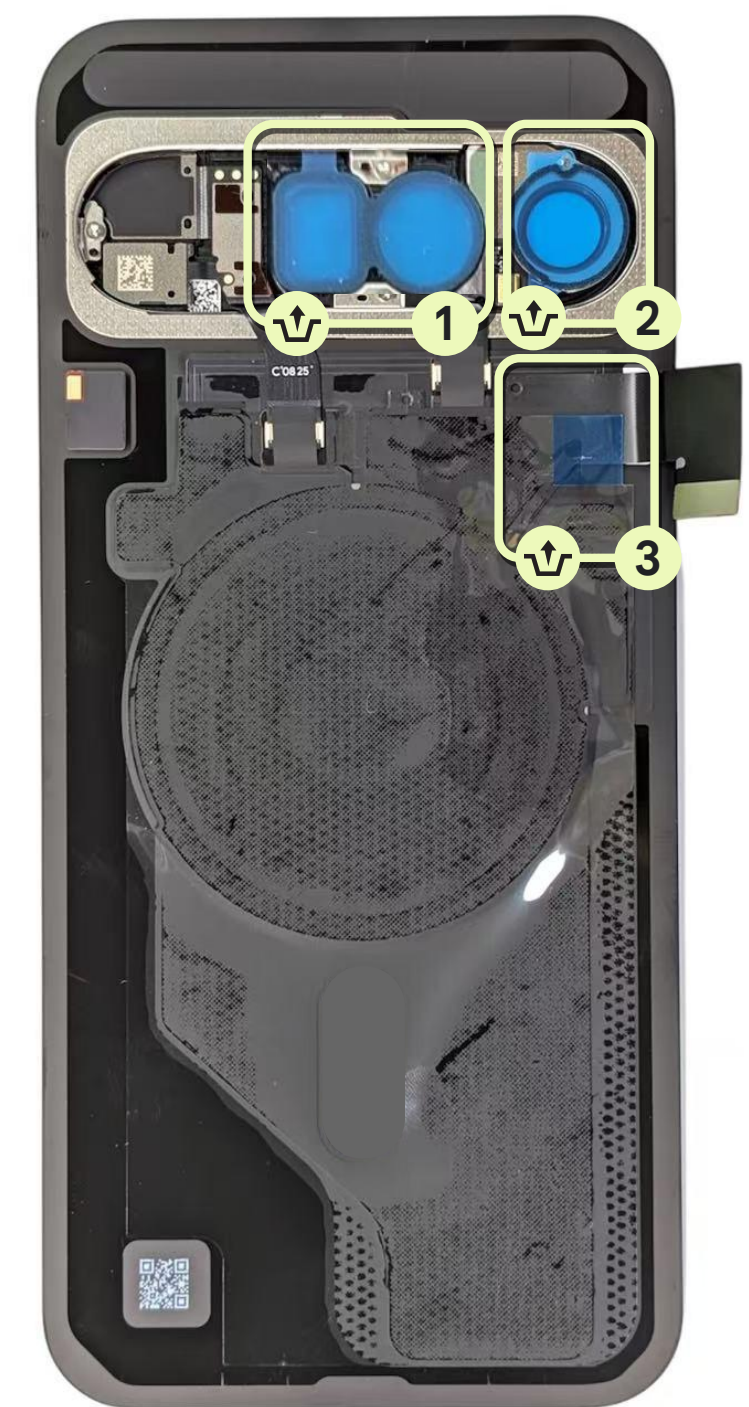
Apply the primer on BG sub

- Apply **IPA** around the edges of the **BG sub** with a **dust-free cotton swab**.

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

Part: **multiple part numbers** (BG sub)

⚠️ **Use caution**

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

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

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Connect the BG sub

- Use the **absorption-bulb** to prop up the **BG sub**.

- Connect the **BG flex** to the **logic board**, applying even pressure across the connector.

⚠ Use caution

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

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

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Insert the BG cowling

Install the **BG cowling** upward at an angle so the tongue goes inside the groove.

Part: G730-09327-03 (BG cowling)

⚠️ **Use caution**

Avoid damage to the BG sub flex.

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

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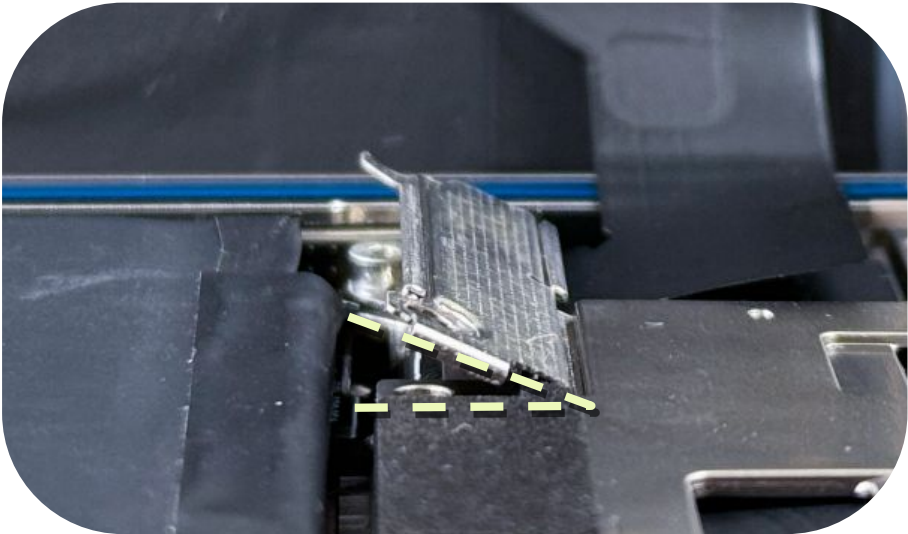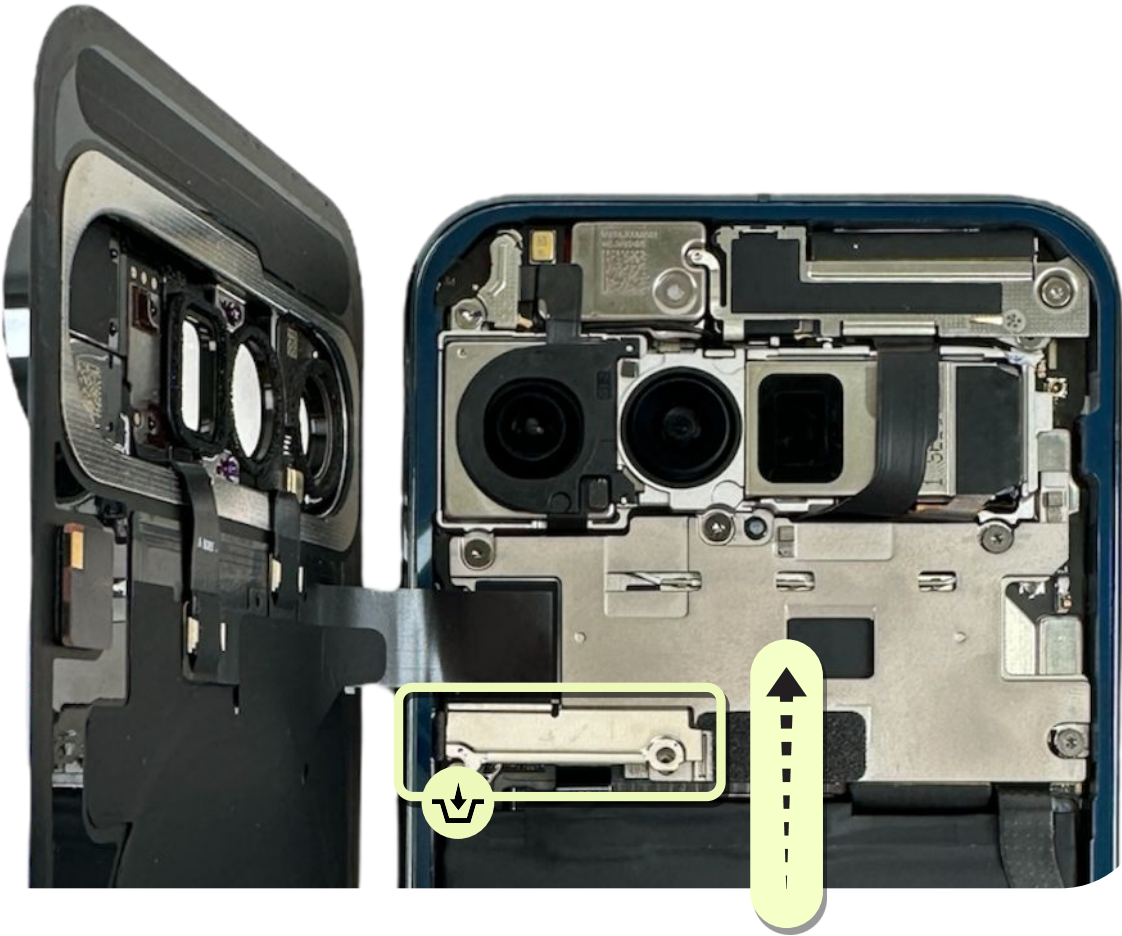
Tighten the screws

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

Part: G250-08169-03*2 (screw)

⚠️ **Use caution**

Be careful when you use the screwdriver.

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

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

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

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Remove the liner (second layer)

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

⚠️ **Use caution**

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

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

Pick the tab here.

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

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Attach the BG sub

- Align and lower the **BG sub** to the **enclosure**.

- Press along the **BG bezels** with both hands to ensure proper attachment.

Note

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

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

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

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Prepare to press

- Place the **Pixel universal holder** in the **B1 position** on the **Pixel universal base.**

- Place the **Pixel universal supporting rubber** and the **Pixel universal holder limiting block** through the positioning posts on the **Pixel universal holder** in this order, as shown in Fig 1.

- Place the **device** and **lock** it as shown in Fig 2.

- Place the **Pixel 10 Pro XL BG press rubber** through the positioning posts as shown in Fig 3.

> ○ **Note**
>
> Make sure that the Pixel universal holder is in the right position.

Fig 1

Fig 2

Fig 3

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

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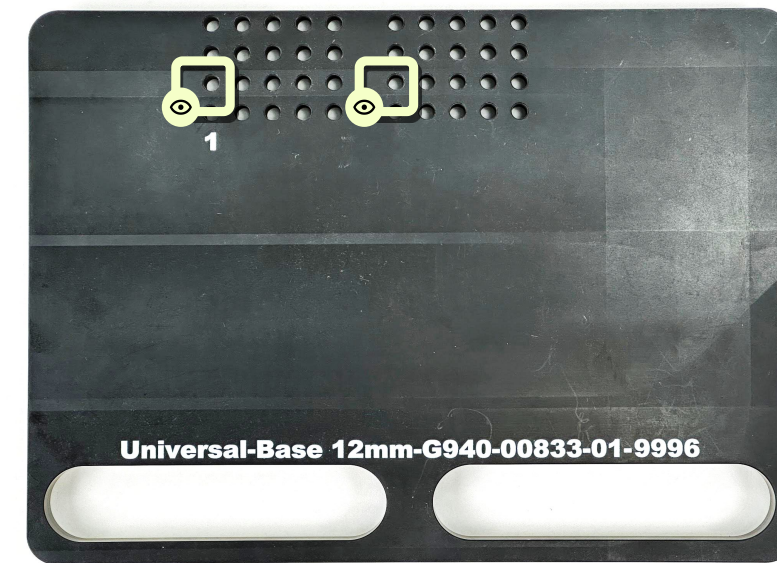
Prepare to press

- Place the **universal press plate 12 mm** on the **universal base.**

- Place the stack in the **Pixel universal press fixture**.

- Press the handle down for **45 seconds**.

- Restore the handle to the original position and remove the stack.

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

Fig 1

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

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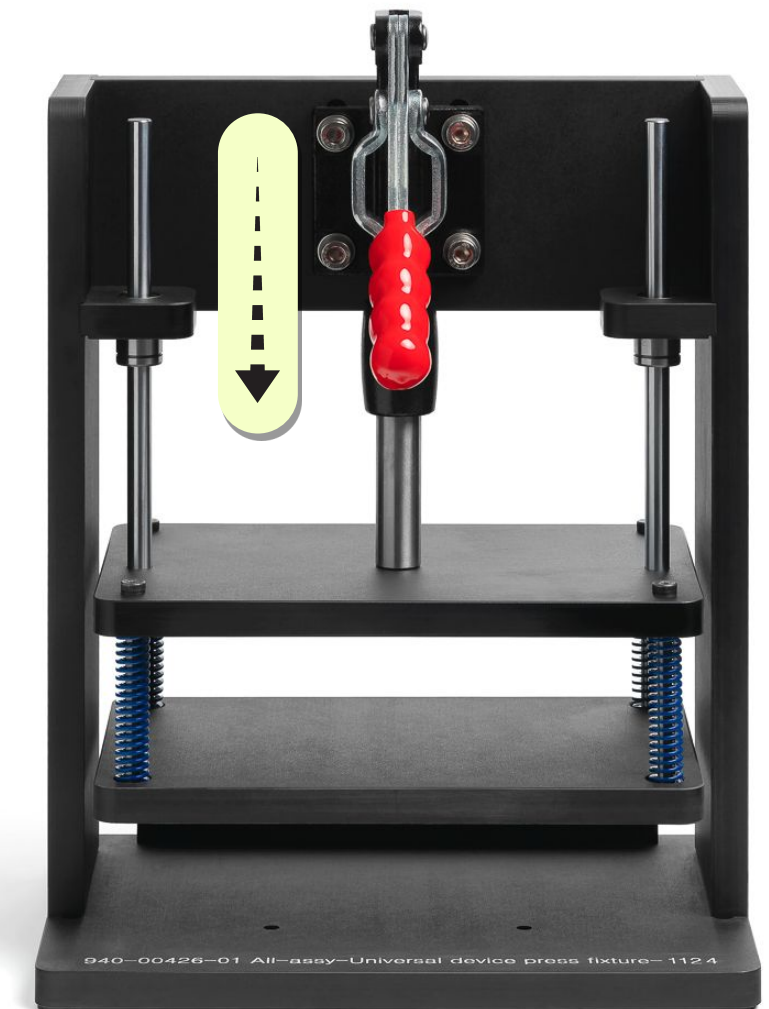
Pixel 10 Pro XL repair manual

Troubleshooting

Sensor location	Mic3	Proximity sensor
Connectors and feature location	Top speaker	UDFPS
Power	Bottom speaker	Rear camera
Wireless charge	Vibrator	Front camera
Mic1	Display	USB-C
Mic2	NFC	mmWave module

Sensor location

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

Connectors and feature location

Location and description

A	BG connector
B	Battery connector
C	CJ connector
D	DJ connector
E	FCAM connector
F	Tele camera connector
G	SPAM connector
H	mmWave module connector
I	RJ flex connector
J	Rear camera UW connector
K	Rear camera main connector
L	Sidekey spring
M	P-sensor or light sensor
N	UWB spring
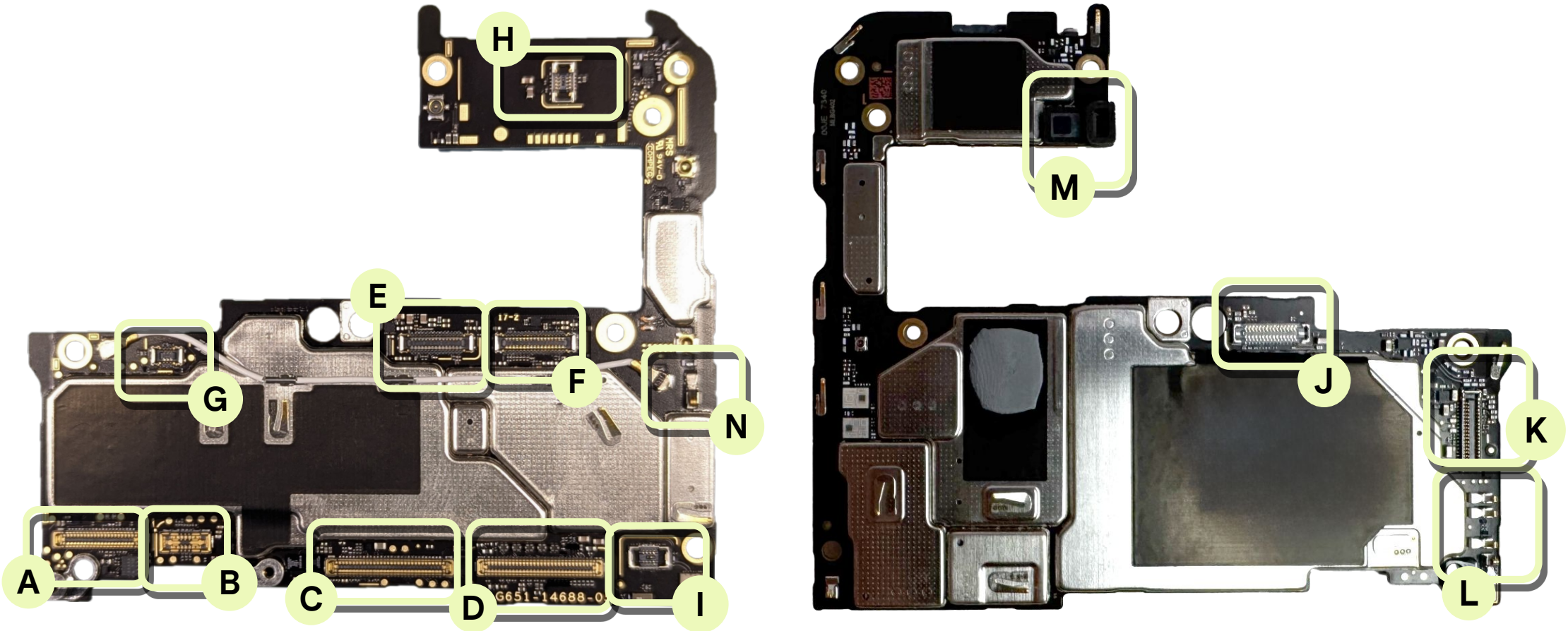
Connectors and feature location (continued)

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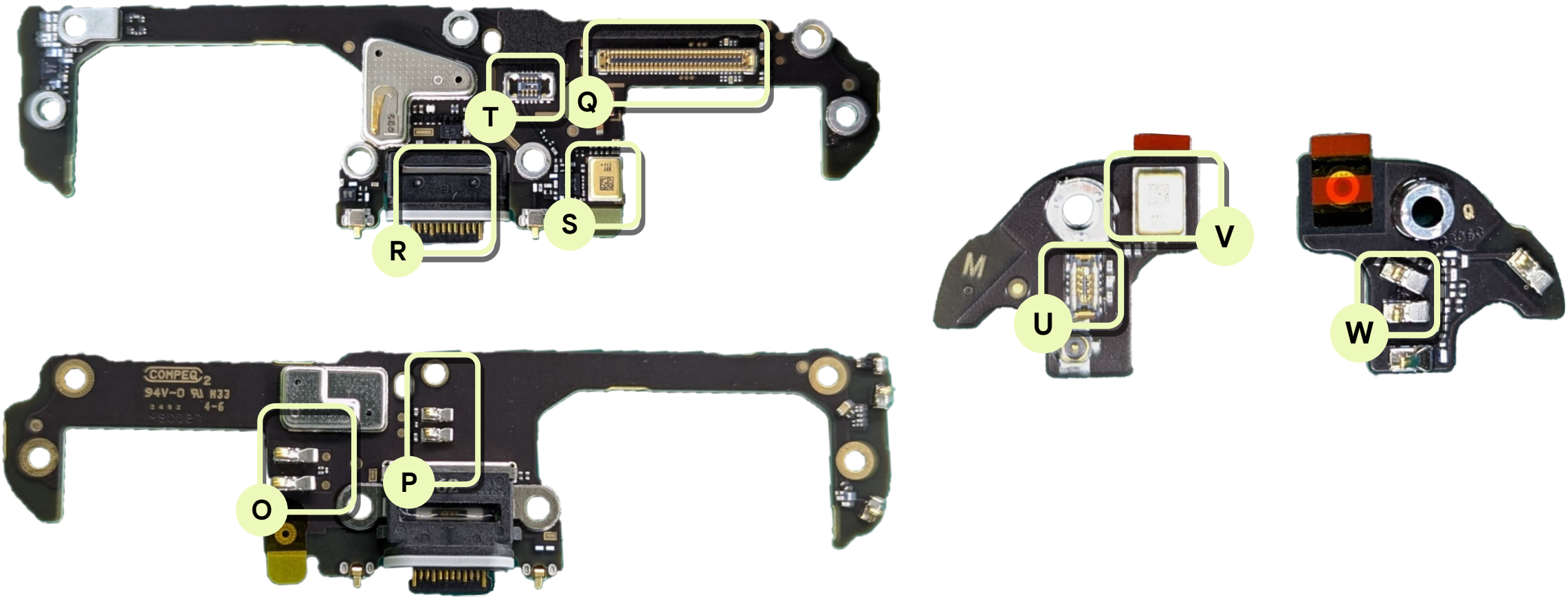
Connectors and feature location (continued)

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

Power

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

Wireless charge

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

Mic1

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

1 Mic1

2 Mic2

3 Mic3

Mic2

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

T013: mic2 no sound

T014: mic2 low sound

T015: mic2 distorted sound

1	Mic1
2	Mic2
3	Mic3

Mic3

Symptom	Potential root cause	Procedure	
TO16: mic3 - no sound **TO17:** mic3 - low sound **TO18:** mic3 - distorted sound	Connectivity issue	• Check if the connectivity between the **SPAM flex**, **ANT4 board**, and **logic board** are normal. • If they aren't fully buckled, reassemble and then test again.	**Connectors location**
	Assembly problem	• Check if the **enclosure mic3 mesh liner** and the **ANT4 board mic3 liner** are removed. If they're removed, go to the next step. • Test audio again.	
	Component issue	• Inspect whether the mic3 component is damaged. • Use a good **ANT board**, **LDAF** and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • SPAM flex • ANT4 board • Logic board

1 Mic1

2 Mic2

3 Mic3

Top speaker

Symptom	Potential root cause	Procedure	
 🎤 **T019:** top speaker no sound **T020:** top speaker low sound **T021:** top speaker distorted sound	Damage	• Inspect whether the **ANT4 board spring** and **top speaker pad** is broken or squeezed.	
	Internal debris	• Disassemble the device and inspect the **top speaker**.	
	Connectivity issue	• Check the contact condition between the **SPAM flex**, **top speaker pin contact pad**, and the **ANT4 board**. If there's no mark on the **pin contact pad**, it shows poor connectivity. • If marks are observed, clean the **pin contact pad** and test again.	**Connectors location**
	Component issue	• If sound quality is still poor, use a good **SPAM flex**, **top speaker**, and **ANT4 board** to cross-check with original ones • Replace the defective component.	**Disassembly** • SPAM flex • Top speaker • ANT4 board

Bottom speaker

Symptom	Potential root cause	Procedure	
🎤 **T023:** bottom speaker no sound **T02:** bottom speaker low sound **T025:** bottom speaker distorted sound	Mesh problem	• Visually inspect the exterior of the phone to check for a polluted mesh on the **bottom speaker port**. Use a soft **ESD brush** to remove any debris. • Test audio.	
	Internal debris	• If sound quality is still poor, inspect the mesh and the **bottom speaker** with a **microscope**. • Disassemble the device and inspect the **bottom speaker**.	
	Connectivity issue	• Check the contact condition between the **bottom speaker** and the **chin board pin contact pad**. If there's no mark on the **pin contact pad**, it shows poor connectivity. • If marks are observed, clean the **pin contact pad** and test again.	**Connectors location**
	Component issue	• If sound quality is still poor, use a good **bottom speaker** and **chin board** to cross-check with original ones • Replace the defective component.	**Disassembly** • Bottom speaker • Chin board

Vibrator

Symptom	Potential root cause	Procedure	
  T026: vibrator failure	Connectivity issue	• Check the contact condition between the **vibrator pad** and the **chin board pin contact pad**. If there's no mark on the **pin contact pad**, it shows poor connectivity. • If marks are observed, clean the **pin contact pad** and test again. • Test **vibrator** again. Check the function by triage test.	**Connectors location**
	Component issue	• Use a good **vibrator** and **chin board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • Vibrator • Chin board

Display

Symptom	Potential root cause	Procedure	
T027: display blank **T028:** display dead pixel, dark spots or foreign material	Damage	• Inspect the **display** for damage and replace if necessary.	
T029: display bright pixel, bright or colored spots **T030:** display vertical or horizontal lines **T031:** display black, white or colored screen	Connectivity issue	• Check if the connectivity between the **display connector**, **DJ flex**, and the **logic board** is normal. • If they aren't fully buckled, reassemble and then test again.	**Connectors location**
T032: display flickering or abnormal **T033:** display image quality **T03:** display color mura **T035:** display light leakage **T036:** display backlight issue **T037:** display shadow **T038:** display permanent burn-in **T039:** display temporary burn-in	Dead pixels Distorted graphics Flickering Color issues	• Remove the **display module**, fit a replacement part without **adhesive** and test. • If the issue is resolved, apply **adhesive** and fit a new **display module**.	**Disassembly** • Display

Display (continued)

Symptom	Potential root cause	Procedure	
 T00: display single crack T01: display multiple cracks T03: display cosmetic defects T0: multi-touch poor response T05: multi-touch no response T06: multi-touch erratic response	Touch screen fingerprint sensor	• Remove the **display module**, fit a replacement part without **adhesive** and test. • If the issue is resolved, apply **adhesive** and fit a new **display module**.	**Disassembly** • Display
	Component issue	• Use a good **display** and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • Display • Logic board

NFC

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

Proximity sensor

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

UDFPS

Symptom	Potential root cause	Procedure	
T06: fingerprint sensor failure	Interference Issue	Remove any screen protector prior to testing related to display function.	
	Damage	• Inspect the **display** for damage and replace if necessary. • Inspect the **UDFPS area**. If there's dirt or debris, clean it with a **dust-free cloth.**	
	Connectivity issue	• Check if the connectivity between the **display connector** and the **logic board** is normal. • If they aren't fully buckled, reassemble and then test again.	**Connectors location**
	Component issue	• Use a good **display** and **logic board** to cross–check with original ones. • Replace the defective component.	**Disassembly** • Display • Logic board

Rear camera

Symptom	Potential root cause	Procedure	
T072: camera AR failure **T073:** camera rear photo quality **T074:** camera rear video quality **T077:** camera flash not working **T078:** can't switch between cameras **T079:** camera damage **T111:** main RCAM crashes **T112:** UW RCAM crashes **T114:** main RCAM no preview **T115:** UW RCAM no preview **T116:** UW RCAM photo quality **T117:** UW RCAM video quality **T196:** tele RCAM crashes **T197:** tele RCAM no preview **T198:** tele rear camera photo quality **T199:** tele rear camera video quality	Damage	• Inspect the **camera lens area** for damage. • Check the function by triage test. • Disassemble the device to check that the **camera connector** is seated properly. Power on the unit and check that the **camera** fails again.	
	Connectivity issue	• Check if the connectivity between the **rear camera connector** and the **logic board** is normal. • If they aren't fully buckled, reassemble and then test again.	**Connectors location**
	Component issue	• Use a good **rear camera** and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • Rear camera • Logic board

Main   UW   Tele

Front camera

Symptom	Potential root cause	Procedure
 T075: camera front photo quality T076: camera front video quality T078: can't switch between cameras T079: camera damage T110: FCAM crashes T113: FCAM no preview	Damage	Inspect the **display** and the **front camera** for damage.
	Connectivity issue	• Check if the connectivity between the **front camera connector** and the **logic board** is normal. • If they aren't fully buckled, reassemble and then test again.
	Component issue	• Use a good **front camera** and **logic board** to cross-check with original ones. • Replace the defective component.

Connectors location

Disassembly

- Front camera
- Logic board

USB-C

Symptom	Potential root cause	Procedure	
⚡ **T083:** USB-C port corrosion **T08:** USB-C port damage **T085:** USB-C failure	Damage	• Inspect the **USB-C connector** for debris preventing charging. • Inspect the device for damage. • Inspect the **LDI**.	
	Connectivity issue	• Check if the connectivity between the **CJ flex connector** and the **chin board** is normal. If they aren't fully buckled, reassemble and then test again. • Check if the connectivity between the **CJ flex connector** and the **logic board** is normal. If they aren't fully buckled, reassemble and then test again.	**Connectors location**
	Component issue	• Use a good **CJ flex** and **chin board** to cross-check with original ones. • Replace the defective component. • Use a good **CJ flex** and **logic board** to cross-check with original ones. • Replace the defective component.	**Disassembly** • CJ flex • Chin board • Logic board

mmWave module

Symptom	Potential root cause	Procedure	
T105: 5G_low_med_band_failure **T106:** 5G_high_band_failure	Damage	• Inspect the **mmWave module** for damage.	
	Connectivity issue	• Check if the connectivity between the **mmWave connector** and the **logic board** is normal. • If they aren't fully buckled, reassemble and then test again.	**Connectors location**
	Component issue	• Connect a new **mmWave module** to test. • If the issue is resolved, proceed with the **mmWave module** replacement and assemble device. • If the **mmWave module** issue remains, replace the **logic board**.	**Disassembly** • mmWave module • Logic board

Pixel 10 Pro XL repair manual

Software

Software tools

Description	Documentation
Update or reinstall the software on Pixel devices	[Google Pixel - Update and Software Repair](#)