Pixel 8
Repair manual

Version 2.0

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

Self service repair is not 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 engaging in repair.

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

Welcome!
We are here to help.

At Google, we innovate, design and build in order to create helpful and sustainable products. Product longevity is really important to us and repairability is part of that. Repair enables our products to stay in-use and out of landfills.

If you have any questions or need support, please reach out.

support.google.com

This manual is organized into sections for easy and intuitive navigation.

Precautions

Safety is a top priority for Google. Users should work in a safe environment and have the skills and training necessary to safely complete repairs.

Repair flows

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

Disassembly

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

Assembly

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

Troubleshooting & Software

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

Glossary

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

Table of contents

Revision history

Version	Date	Change description
v1.0	August, 2023	First release
v2.0	November, 2023	New format release

Pixel 8 Repair Manual

Precautions

Page 1 of 2

Important: Before you begin

⚠️

Be careful if engaging in repair

Opening and/or repairing a device can present 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 no additional screws or small parts are left in the device after assembly.

Always ensure that screws are securely fastened.

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

🔋

Caution:
Batteries should be carefully handled, and can be dangerous when damaged

- Fully discharge device battery before attempting 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, immediately cover in sand or use gloves and tongs to place battery in a fire safe.

- Take care to prevent shorting of battery terminals or damaging the battery, as fire or overheating could result.

- Dispose of the battery in a manner in accordance with local regulations.

☢️

Caution:
Pixel 8 contains a Class 1 laser module

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

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

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

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

Page 2 of 2

Important: Before you begin

⚠️

Caution:
Part handling – Glass

- Wear protective gloves and safety glasses when handling damaged parts.

- Use protective film when removing damaged parts.

- Once removed, immediately store the damaged part in the replacement part packaging to prevent injury.

🛠️

**Tools
and fixtures**

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

Caution:

- We don't recommend performing repairs without the specified tools and fixtures.

- Improper use of tools and fixtures may result in injury to yourself, the user of the device or other third parties, as well as damage to the product, tools, fixtures, replacement parts and/or other spare parts.

⚠️

**Important:
Before Disassembling
the Device**

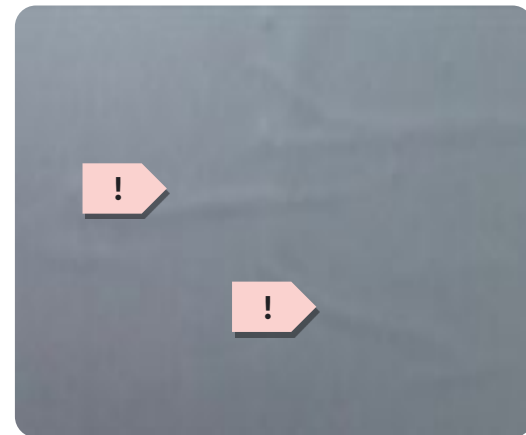- Disconnect the device from all power sources before any disassembly.

- Make sure the battery is fully discharged before any disassembly.

- If the phone battery shows signs of swelling or damage, or if the phone feels hot or emits 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 once disassembled.

Caution ⚠

Examples of unacceptable battery conditions - Not suitable for repair*

Pouch damage

Line protrusion

Scratch

Contamination marking

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 general safety guidance outlined in this document.

(i)
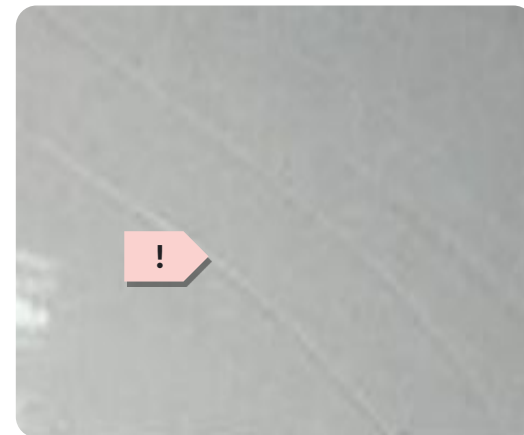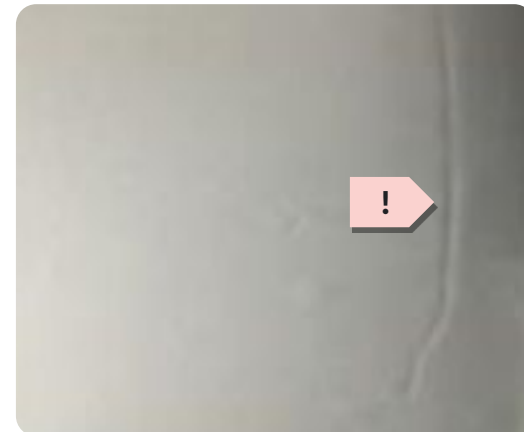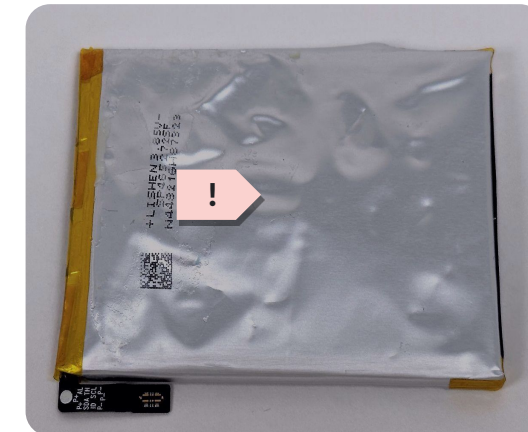
Pixel 8 Repair Manual

Introduction

Pixel 8: Expanded view

Reuse indications
- ● Reusable without Cleaning
- ● Reusable after Cleaning
- ● Not Reusable after disassembly
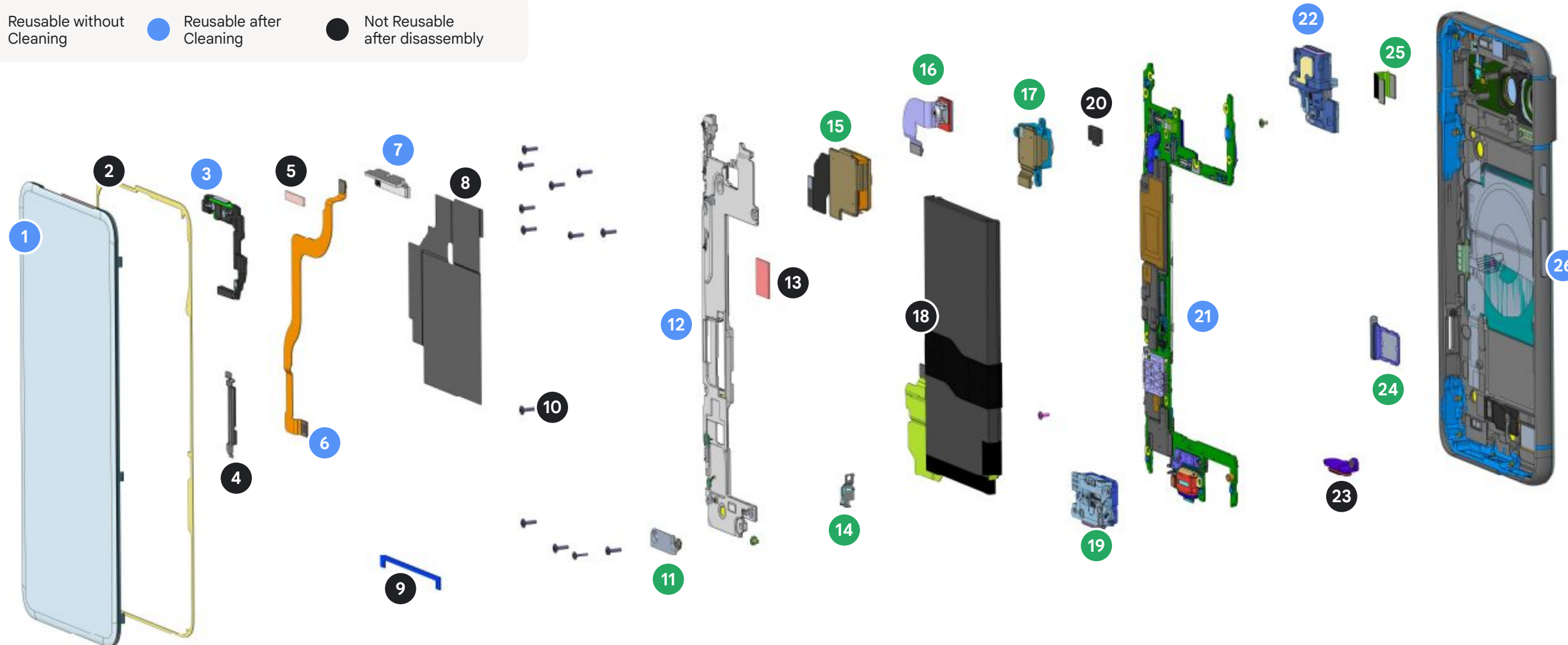
Pixel 8 Part ID

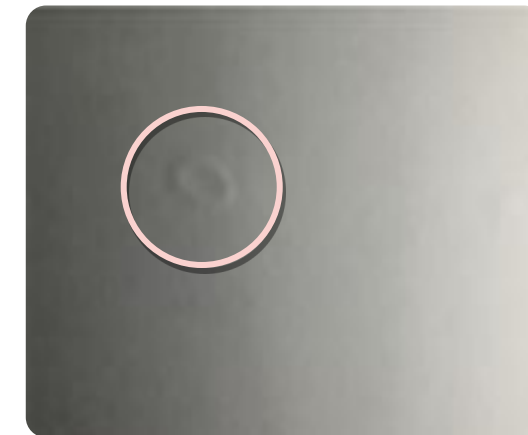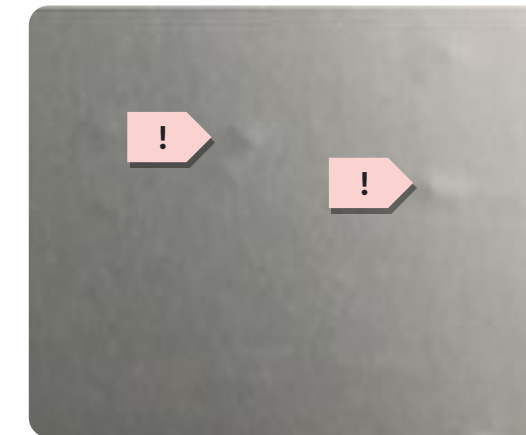|							
1	● Display Module	8	● Graphite Sheet	15	● Rear Camera	22	● Top Speaker
2	● CG-Trim PSA	9	● DIC SHIM	16	● Front Camera	23	● Mic 1 Bracket
3	● Heatsink	10	● Screws	17	● Rear Camera UW	24	● SIM Tray
4	● Display cowling	11	● USB-C cowling	18	● Battery	25	● BIF Flex
5	● mmWave Thermal Pad	12	● Mid-frame	19	● Bottom Speaker	26	● Enclosure
6	● mmWave Flex	13	● SOC Thermal Pad	20	● P-sensor Grommet		
7	● 5G Module	14	● ANT 7 Bracket	21	● Logic Board		

Screw map

These are the screws used in the Pixel 8:

Screw	Screw	Screw
G250-06946-10	G250-06670-00	G250-05802-00
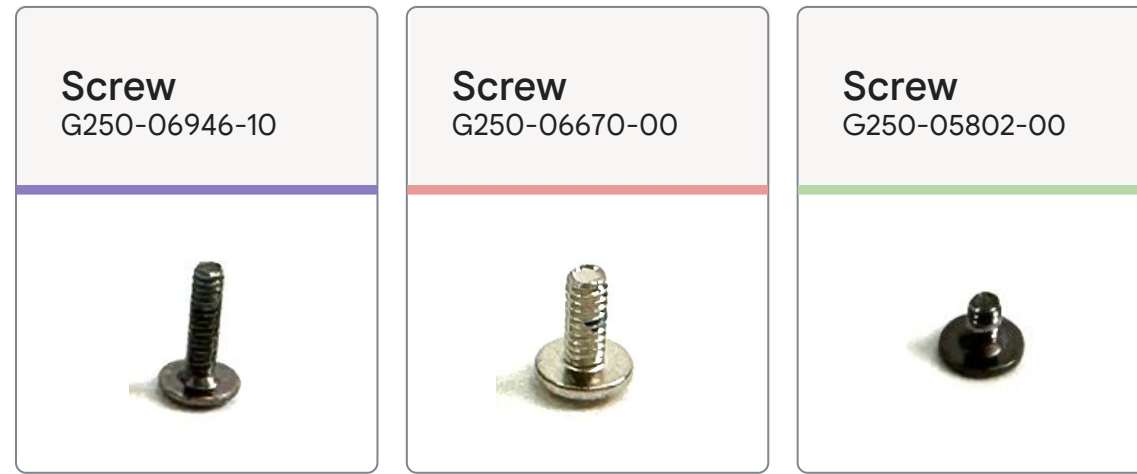
For ANT 7 Bracket fastening.
Not on the screw cover

⚠ **Screws are a single use item**

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

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

Each screw is critical to the safe continued operation of the phone. Since thread locking adhesive can not be reactivated - replace each used screw with a new screw after removal.
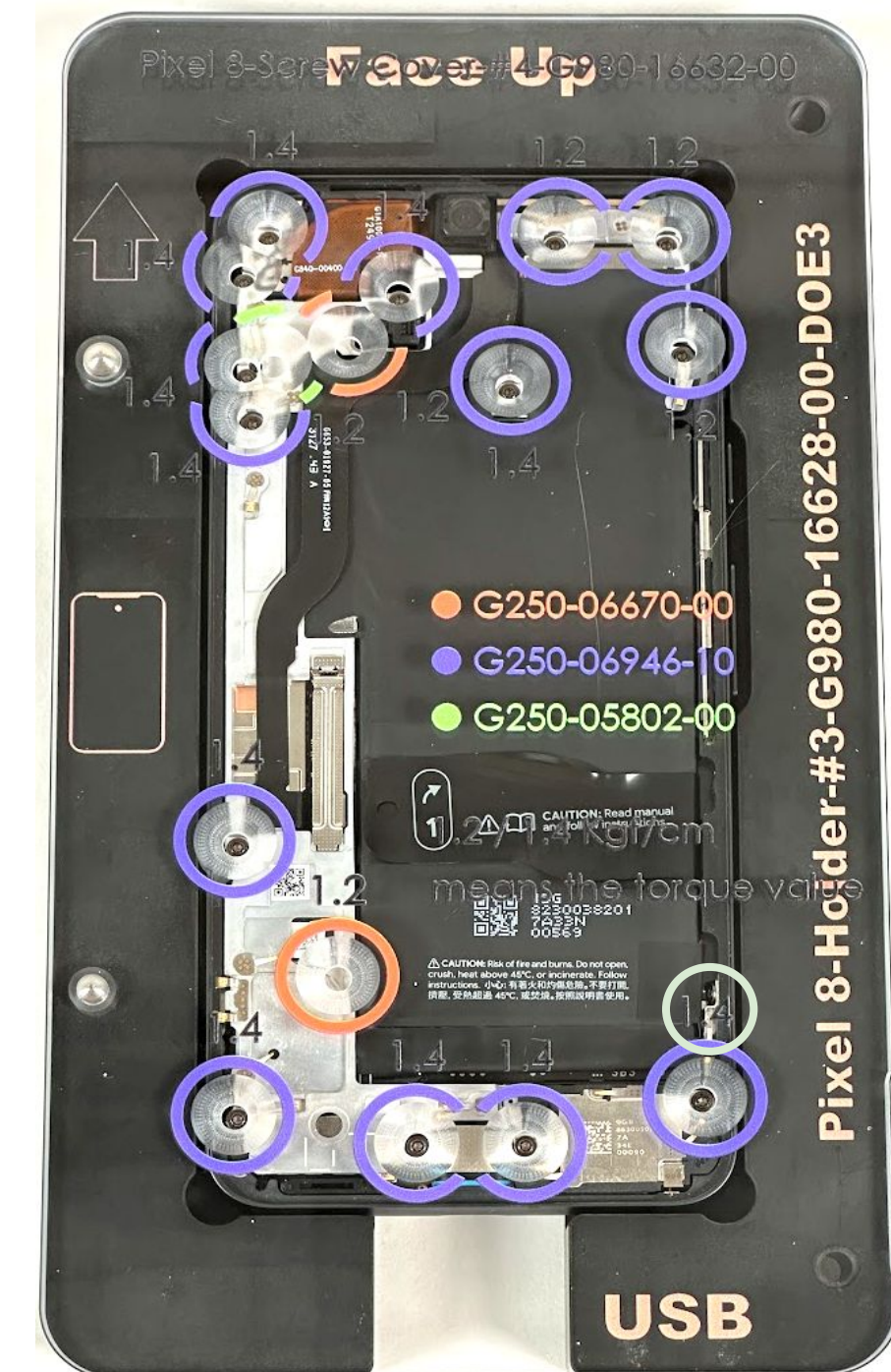
Touch screen calibration process

Important!

Complete the following before booting up the device:

- Nothing can be touching the display (this includes *protective films*, cases, fingers, tape, labels, scratch cover, adhesives, debris, etc.)

- Device should be on a flat surface, and can not be held in your hands.

Once the above conditions are met, the device can be powered on by pressing the power button. Don't touch the device until it is fully booted into the user operating system.

⚠️ **Display touch calibration**

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

💡 **Touch function**

The touch function of the screen may not work as intended, if this process is not followed.

ESD protection

ESD (Electro Static Discharge) can damage components so it is important to work in an ESD safe environment during repair.

Follow these 4 steps to keep ESD-safe:

Stay grounded

Repairs should be carried out on an ESD mat, while the person repairing the device wears a grounded ESD strap.

Avoid static buildup

Users should avoid wearing synthetic fibers such as fleeces that can generate static.

Did you know?

ESD is the sudden flow of electricity through two electrically charged objects. For example, walking across a carpet, then touching a metal door handle and feeling a shock is ESD.

Protective bags

All ESD-sensitive parts should be packed in metalized protective bags during shipping.

Avoid touching pins

Users should avoid touching pins by using ESD-safe tools to handle components.

Liquid damage indicators

Liquid damage indicators are strips that change colors when a phone has been exposed to water or other liquids.

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

- There are two Liquid Damage Indicators (LDI) on this device.

- The device is considered to have been exposed to liquid, if either indicator has turned red.
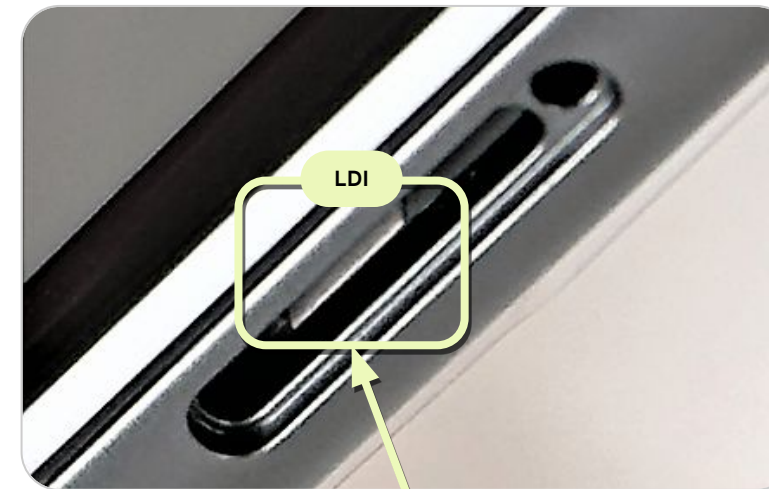
In the SIM card tray slot(on the Mid-frame) visible without disassembling the device.

On Mid-frame, near charge port

Turning Pixel on / off

Turn the power on or off

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

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

  - *To power off phone, press and hold the Power and volume up buttons for a few seconds. Then, tap Power off on screen.*

  - *For further information, see this Google Help page (link).*

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

Turn screen off and back on

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

Tip: On some Pixel phones, you can see the time and some other information even when screen is off. Learn which Pixel phones and how to turn "Always show time & info" off or on.

Restart (reboot)

1. On most phones, press phone's power button for about 30 seconds, or until 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 in order to repair a device in a safe and effective manner.

⚠ **Caution:**

- We don't recommend performing repairs without specified tools and fixtures.

- Improper use of tools and fixtures may result in injury to yourself, the user of the device or other third parties, as well as damage to the product, tools, fixtures, replacement parts and/or other spare parts.

⚒ **Tools and fixtures**

Google approved fixtures: Pixel 8

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

Pixel 8-Holder

NEW G940-00746-00
WAS G980-016628-00

Pixel 8-Battery Press Rubber

NEW G940-00748-00
WAS G980-016636-00

Pixel 8-CG Press Rubber

NEW G940-00747-00
WAS G980-016635-00

Pixel 8-Screw Cover

NEW G940-00793-00
WAS G980-016632-00
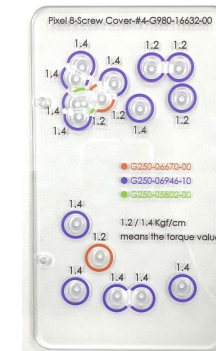
Universal Press

NEW G940-00733-00
WAS 940-00426-01
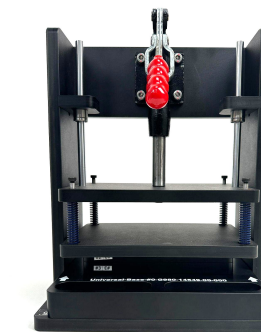
Universal Disassembly Fixture

NEW G940-00734-00
WAS G980-14551-00

Universal Base

WAS G940-00735-00
NEW G980-14549-00

Universal Press Plate 12mm

NEW G940-00736-00
WAS G980-17318-00
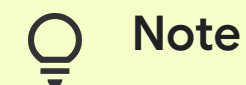
💡 **Note**

If there is a different Part Number on the picture in the following pages, the part number shown here is the correct one.

⚒ Tools and fixtures

Google approved fixtures: Pixel 8

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

**Universal
fish line tool**

NEW G940-00779-00
WAS 540-00537-00

**Universal
adsorption bulb**

NEW G940-00780-00
WAS 246-00172-00

**Universal Disassembly
ESD stick**

G940-00782-00

**Universal Disassembly
ESD pick**

G940-00783-00

**Universal
Scraper**

WAS G940-00784-00
NEW 540-00568-00

**Screwdriver Hex Shank
Torx Plus Bit no.3**

G940-00785-00

**Universal
Protective Film**

G940-00786-00

💡 **Note**

Additional protective films and caps may be pictured in this manual, but are not needed to achieve a successful repair.

⚒ 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	Heat Plate	USB-C to USB-C cable	18W USB-C power adapter	Adjustable torque screwdriver	Feeler gauge
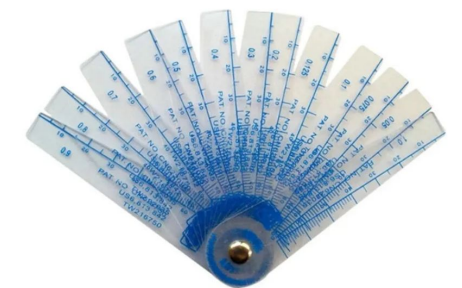
Ionizing air fan	Table C-Clamp	Deglue Machine	ESD Tweezers	ESD spudger

🛠 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	Dust-Free Cotton Swabs	ESD Gloves	Fishing Line (Thickness 0.4mm, 9kg/30lb)	Sankol lubricant CFD 409Z_v2	ESD Finger Cots

3M AP111 Primer	Dust Free Cloth

🛠 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

⚒ Tools and fixtures

Repair Fixture Recommendations

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

Type of Repair	Fixtures Recommended
All Repairs	Pixel 8 Tool Bundle, Universal Press, Universal Disassembly Fixture, Universal Base, Universal Press Plate 12mm, Universal Fish line Tool, Universal Adsorption Bulb, Universal Disassembly ESD stick, Universal Disassembly ESD pick, Universal Scraper, Screwdriver Hex Shank Torx Plus Bit no.3, Universal Protective Film

Replacement parts

Important notice about replacement parts

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

- Performance within product specifications cannot be assured if Google authorized replacement parts are not used.

⚠️ **Caution:**

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

Replacement parts

Reuse indications 🟢 Reusable without Cleaning   🔵 Reusable after Cleaning   ⚫ Not Reusable after disassembly

Logic Board
Multiple Part Numbers
🔵
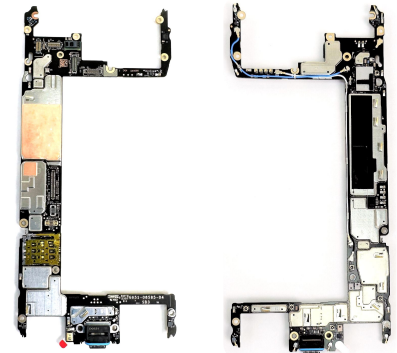
Display Module
G949-00555-01
🔵
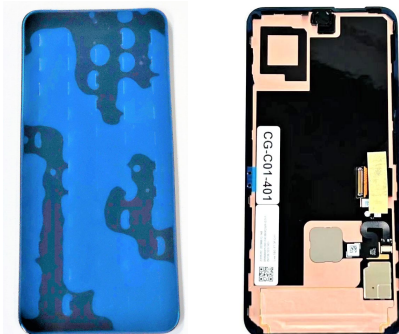
Enclosure
Multiple Part Numbers
🔵

Front Camera
G949-00570-01
🟢

Rear Camera UW
G949-00571-01
🟢

Rear Camera
G949-00572-01
🟢

Mid-frame
G949-00573-01
🔵
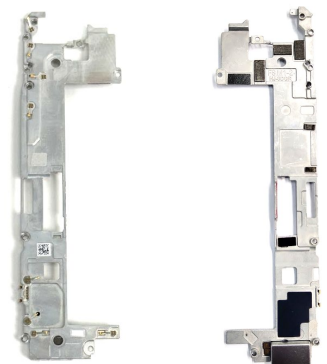
Battery
G949-00574-01
⚫

CG-Trim PSA
G806-09106-12
⚫

💡 **Did you know?**
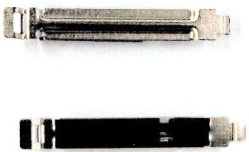
The Trim PSA is pre-attached onto the Display Module (G949-00555-01).

Replacement parts
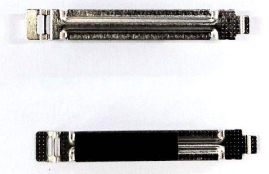
Reuse indications   ● Reusable without Cleaning   ● Reusable after Cleaning   ● Not Reusable after disassembly
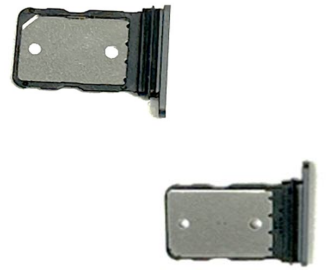
Display cowling-mmWave ●
G730-06613-21

Display cowling-Sub6 ●
G730-06613-22

SIM Tray ●
Multiple Part Numbers
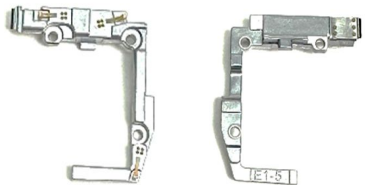
Mic 1 Bracket ●
G730-07405-02

P-sensor Grommet ●
G806-07441-01

mmWave Heatsink ●
G730-06611-21

Sub6 Heatsink ●
G730-06611-22
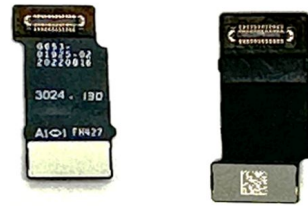
mmWave Thermal Pad ●
G806-07909-01
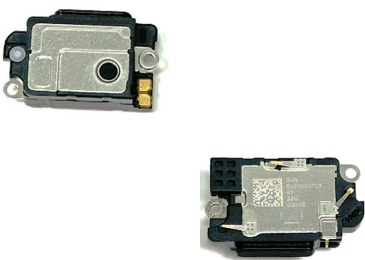
SOC Thermal Pad ●
G806-07607-02
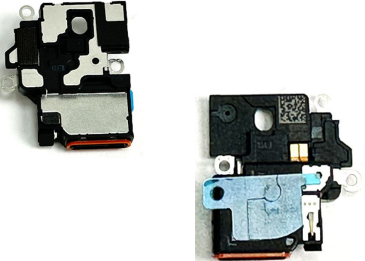
BIF Flex ●
G652-01925-02

Bottom Speaker ●
G863-00507-03

Top Speaker ●
G863-00509-12

Replacement parts

Reuse indications　　● Reusable without Cleaning　　● Reusable after Cleaning　　● Not Reusable after disassembly

USB-C cowling ●	Graphite Sheet ●	Screw ●	Screw ●	Screw ●	DIC SHIM ●
G853-01546-00	G864-00621-01	G250-06946-10	G250-06670-00	G250-05802-00	G806-09026-01

5G Module ●	mmWave Flex ●	ANT 7 Bracket ●	Top SPK PSA ●	mmWave Flex CPSA-1 ●	mmWave Flex CPSA-2 ●
G345-01353-06	G652-01927-06	G853-01545-01	G806-11702-00	G806-11703-00	G806-11704-00

Glossary

Glossary

Acronym / Term	Definition
ESD	**Electro Static Discharge** The sudden flow of electricity through two electrically charged objects.
IPA	**Isopropyl Alcohol (99.8% recommended)** Used for cleaning 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 (OLED)** A type of flat panel display which OLED to show images.
mmWave	**Millimeter Wave** The radio waves used to build a 5G network, providing fast, reliable mobile data.
Sub6	**Sub-6GHz** Refers to mid and low-frequency bands under 6GHz
NG	**Not good - usually referring to a condition that is not acceptable**
SBOM	**Service Bill of Materials**

Glossary

Acronym / 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 for capturing 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 / Term	Definition
Camera	Camera modules, include front camera and rear camera(s). Also known as: CAM FCAM RCAM
Pressure Sensitive Adhesive	The adhesive that are used to bond enclosure and display module, battery and enclosure, or other parts. Also known as: PSA
UDFPS	Under Display FingerPrint Sensor Also known as: Fingerprint sensor
Release Liner	This is a tool for transporting sensitive parts, including adhesives. It needs to be removed during installation for the device to function as intended.

Pixel 8 Repair Manual

Repair flows

Disassembly Order

Assembly Order

Pixel 8
disassembly flowchart

| | To be Removed before Next Process | | Optional to Remove | ● Reusable without Cleaning | ● Reusable after Cleaning | ● Not Reusable after disassembly |

Display → Mid-frame → Rear Camera → Logic Board → Enclosure

Display → Graphite Sheet ●

Mid-frame ⇢ Bottom Speaker ● ⇢ Front Camera ●

Rear Camera → mmWave Module ● → Battery ●

Logic Board ⇢ Top Speaker ● → Mic 1 Bracket ●
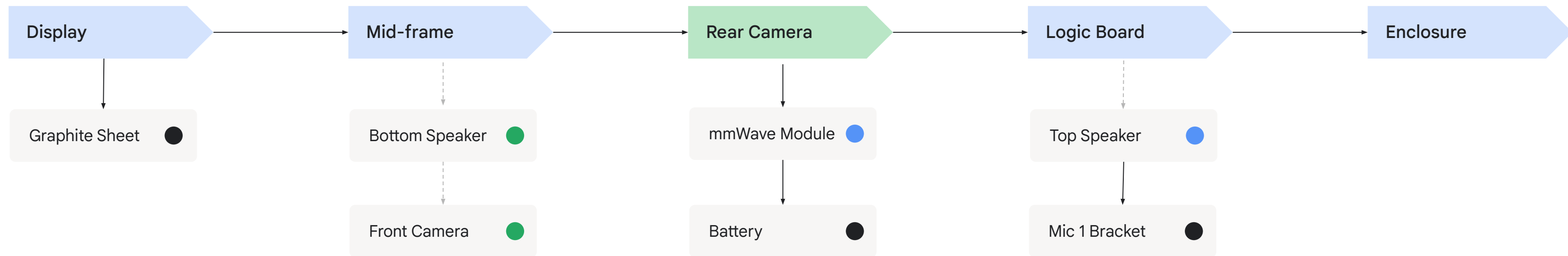
How to read this chart

To replace the Battery:
Remove the Display, Graphite Sheet, Mid-frame,
then the Battery.

To remove the Logic Board:
Remove the Display, Graphite Sheet, Mid-frame,
Bottom Speaker, Front Camera, Rear Camera, mmWave Module,
Battery, then the Logic Board.

NOTE

Rear Camera, Front Camera and Battery are on the
same layer, you can replace each of them without
interference.

Pixel 8
assembly flowchart

● Assembled without a fixture   ● Assembled with a fixture

| Enclosure | → | Logic Board | → | Battery | → | Bottom Speaker | → | Display |

Enclosure → Mic 1 Bracket ●

Mic 1 Bracket → Top Speaker ●

Battery → mmWave Module ●

mmWave Module → Rear Camera ●

Rear Camera → Front Camera ●

Bottom Speaker → Mid-frame ●

Mid-frame → Graphite Sheet ●

💡 **How to read this chart**

To reinstall the battery:
Battery, Mid-frame, Graphite Sheet, then Display.

To reinstall the logic board:
Logic Board, Battery, mmWave, Rear Camera, Front Camera, Mid-frame, Bottom Speaker, Graphite, then Display.

Pixel 8 Repair Manual

Disassembly

Display	Front Camera	Logic Board
Graphite Sheet	Rear Camera	Top Speaker
Mid-frame	mmWave Module	Mic 1 Bracket
Bottom Speaker	Battery	Enclosure
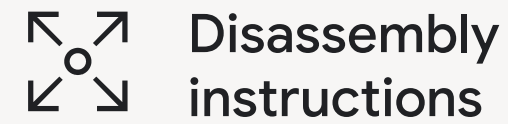
Disassembly
instructions

Display

The Display Module is connected to the Logic Board,
so be careful with the flex when opening the device.

⚠ Use caution!

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

Apply protective film to broken glass before removal.

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

⊘ Prerequisites

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

⚒ Tools

Heat Plate

Universal Disassembly Fixture

Ionizing Air Fan

Pixel 8-CG Press-#2

Pixel 8-Holder

Pixel 8-PSA Align-#5

Pixel 8-CG Press Rubber

Universal Base

Universal Press Plate 12mm

Universal Press

Adjustable torque screwdriver

Screwdriver Hex Shank Torx Plus Bit no.3

Universal fish line tool

Universal adsorption bulb

Universal Disassembly ESD pick

Universal Disassembly ESD stick

ESD Tweezers

3M AP111 Primer

Deglue Machine

🛠 Parts

Display

The parts listed are for the Display disassembly.
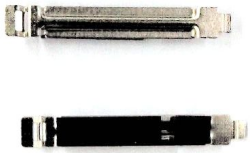
Reuse indications   🟢 Reusable without Cleaning   🔵 Reusable after Cleaning   ⚫ Not Reusable after disassembly

Display Module 🔵
G949-00555-01
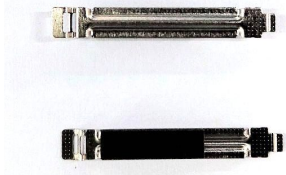
Display cowling-mmWave ⚫
G730-06613-21

Display cowling-Sub6 ⚫
G730-06613-22

CG-Trim PSA ⚫
G806-09106-12

Soften adhesive

Set the heat plate to 122°F/50 ℃, and place the phone face down on the heat plate for 10 mins to soften the adhesive.

⚠️ **Use Caution**

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

⚠️ **Use Caution**

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

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

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 38

Locate snaps

- Before removing the **Display Module**, take note that there are 6 snaps underneath (refer to the relative position).

- Avoid damaging the snaps during the disassembly process.

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 39
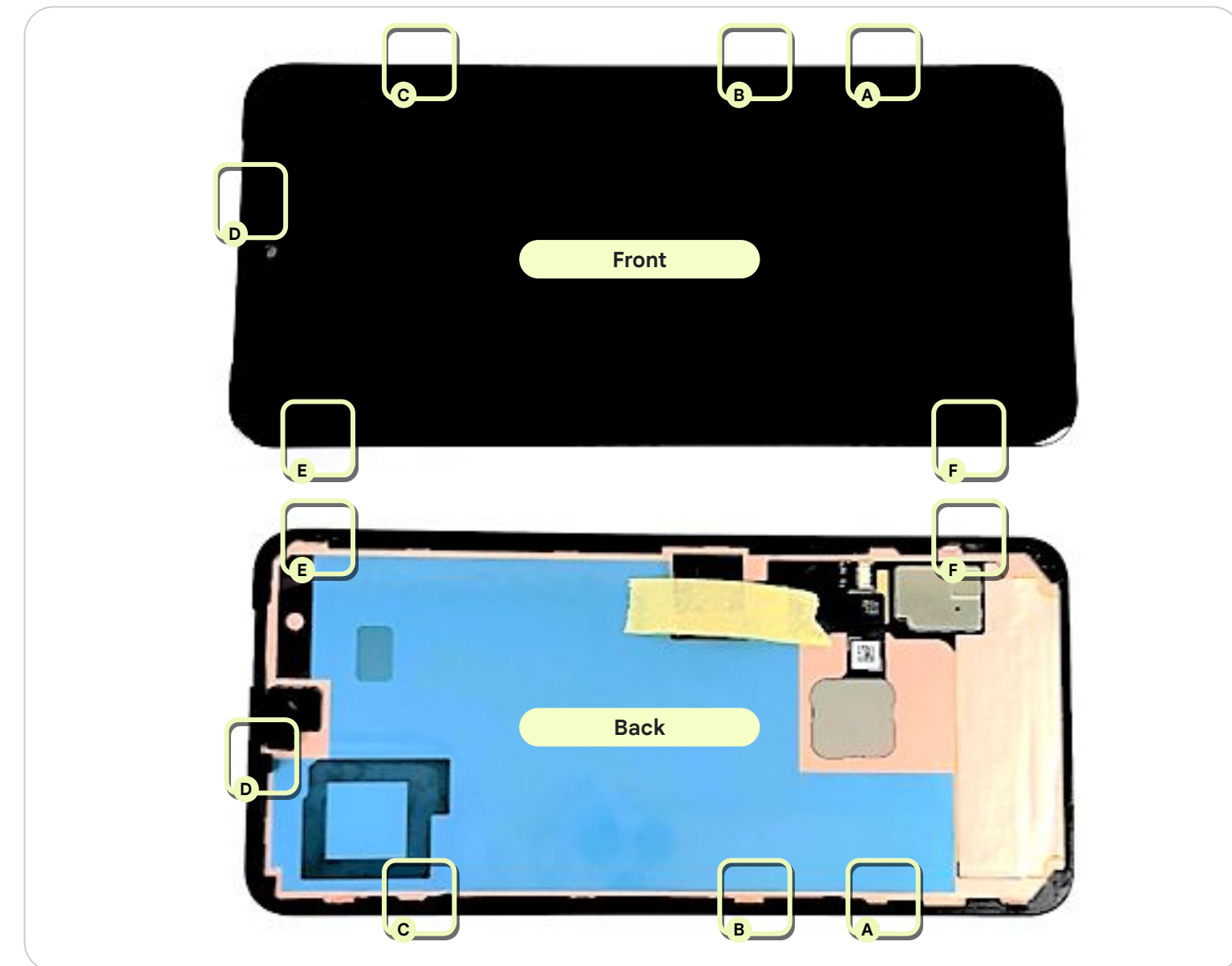
Use fixture

- Adjust suction cup distance to 2.5 cm (Fig 1) from the edge of the hinged top.

- Place the device on the holder of **Universal Disassembly Fixture**. To avoid damage, don't put the visor area of the phone inside the clamps. (Fig 2).

💡 **Note**

There is a groove which can help avoid pressing the power button accidentally.

Fig 1

2.5 cm

Universal-Ds -G980-145

Place power key inside the groove

Fig 2

visor touching the edge of the fixture

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 40

Adjust fixture

Ensure the **Two Universal Clips** are tightened using the screws on the top and bottom, before using the **Universal Disassembly Fixture**.

💡 **Note**

Make sure to use the Universal Disassembly Fixture for Pixel 8.

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 41
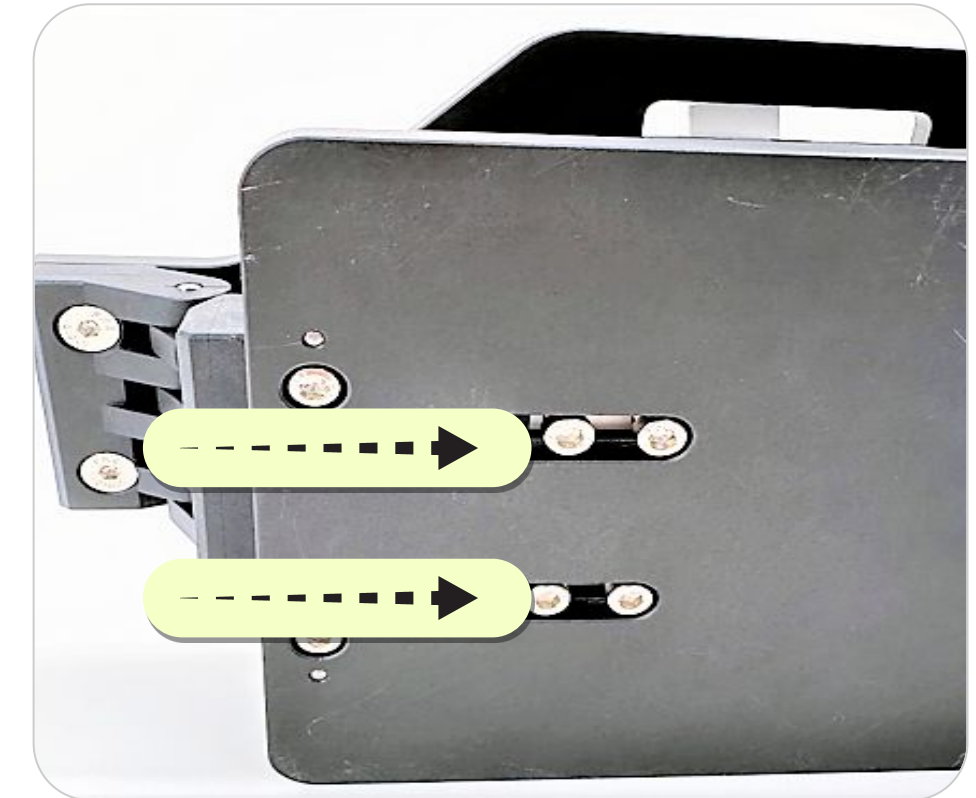
Prepare for disassembly

Before closing the hinged top, dampen the gap between
the **Display** and the **Enclosure** on the USB side
with a proper amount of IPA with an **Universal Disassembly ESD stick**.

1

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure
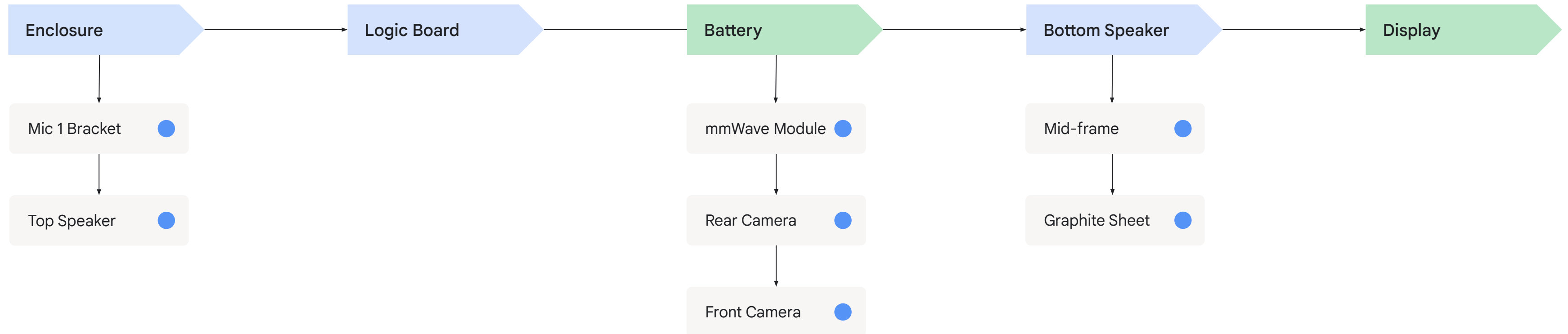
Cover fixture

- Release the hinged top and align the suction cup underneath with the **Display**, and lift up the suction cup (Fig 1).

- From the USB side, observe the separation (Fig 2).

⚠️ **Use Caution**

Use safety gloves to handle damaged displays as it might splinter during removal and could cause injury.

Apply **Universal Protective Film** to broken glass before removal.

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

Fig 1

Fig 2

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 43
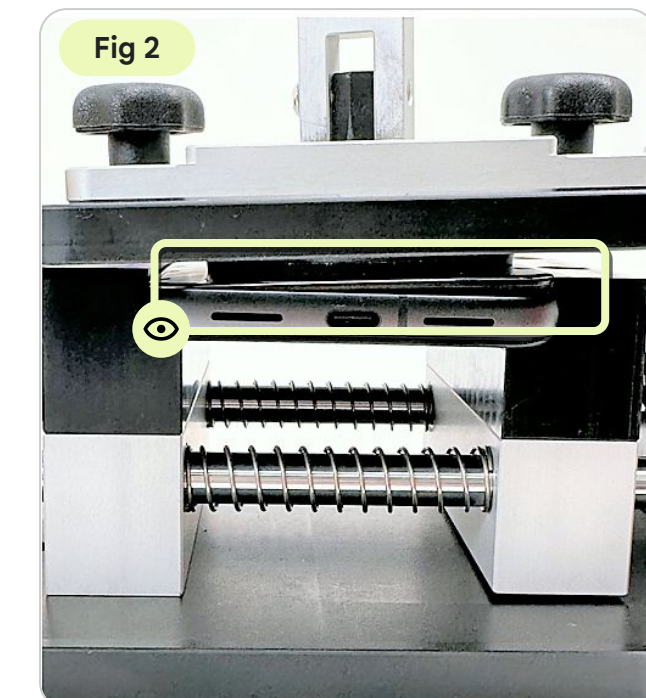
Separate Display

- Slowly rotate the knob to separate the **Display Module** from the **Enclosure** (Fig 1).

- Once there's a gap (≦ 5mm), slide through the opening using an **Universal Disassembly ESD stick** with a proper amount of IPA (Fig 2).

Fig 1

Fig 2

B ← A

Pry thoroughly from A to B

Once there's a gap, insert the Universal Disassembly ESD stick and slide over.

(If it cannot pass through easily, you can slowly rotate the fixture, but the gap should be less than 5mm wide.)

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 44

Separate Display-continued

- As they separate on the USB side, insert a release liner to prevent the adhesive from sticking back (Fig 1).

- Don't push **Universal Disassembly ESD stick** into the device to avoid insertion between **Glass**, **Display** and **Trim**. Refer to the NG and OK pictures (Fig 2).

⚠️ **Use Caution**

Be careful not to push the Universal Disassembly ESD stick beyond the adhesive surface to avoid damaging the Display, Battery, or any other internal components.

Fig 1

Don't remove the release liner.

Fig 2

Glass

Display

Trim

OK   NG   NG

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 45
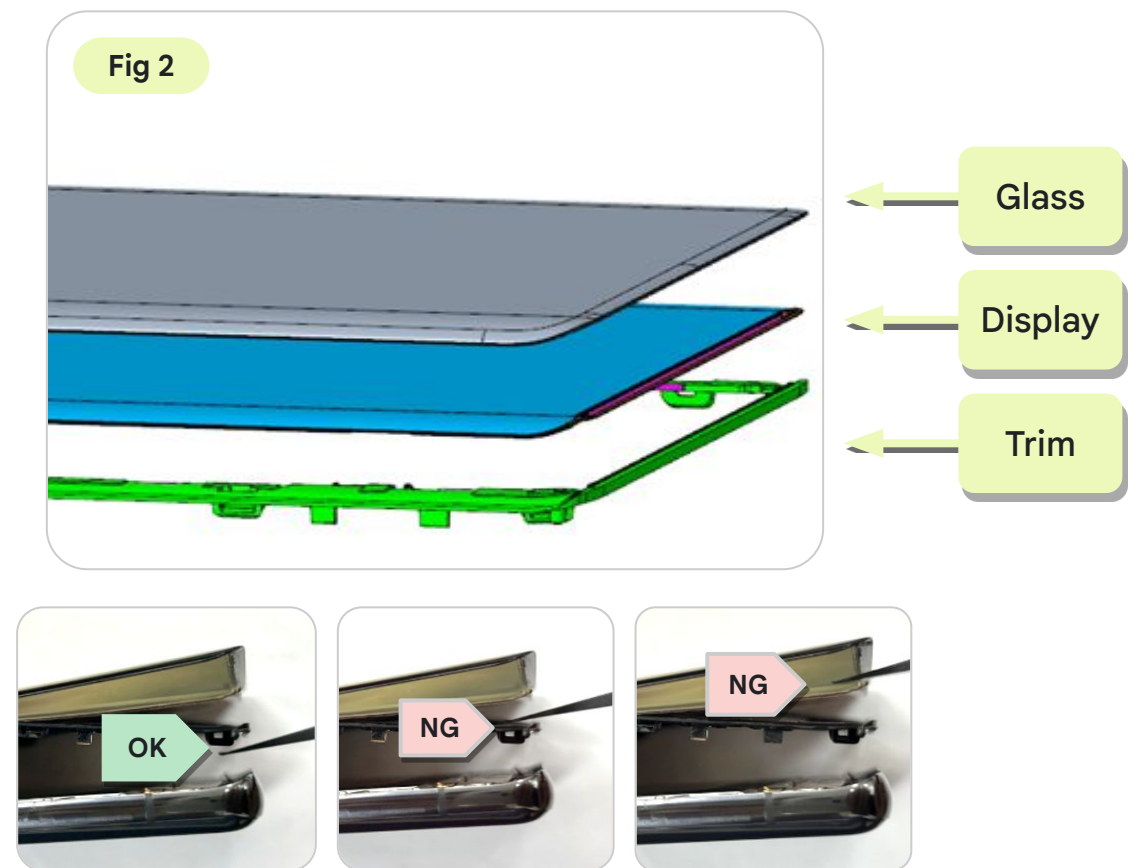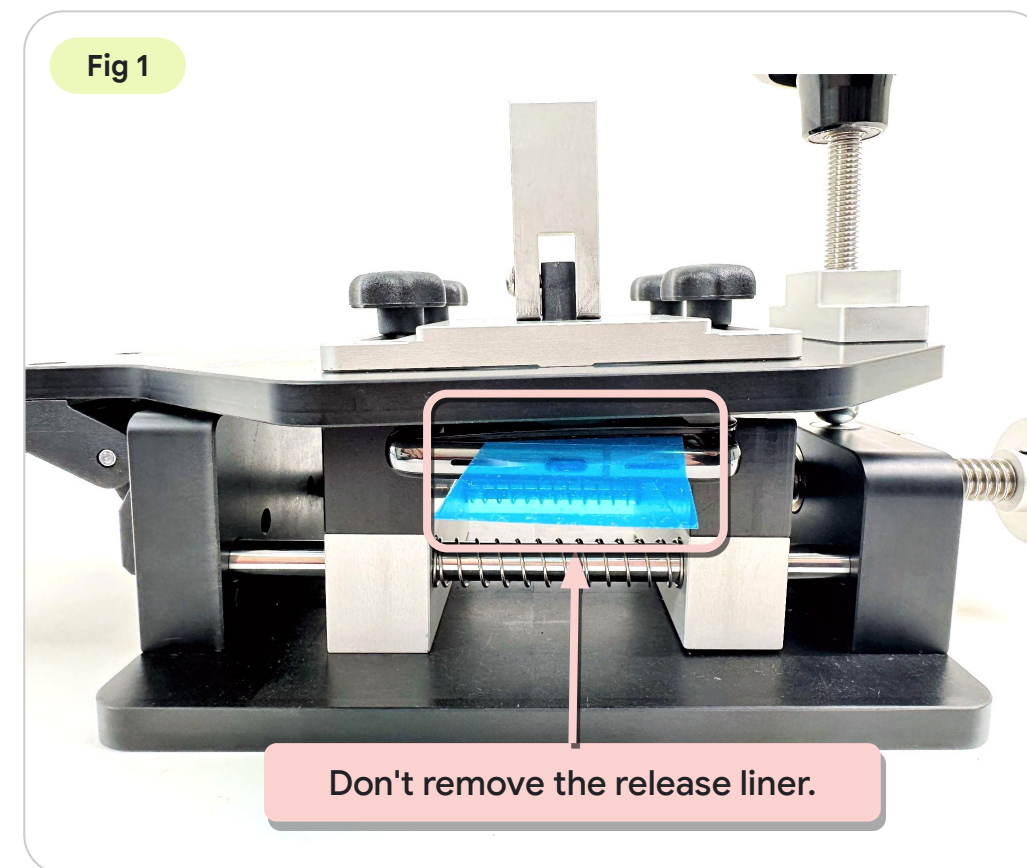
Open hinged top

Release the suction cup, and open the hinged top.

Don't remove the release liner.
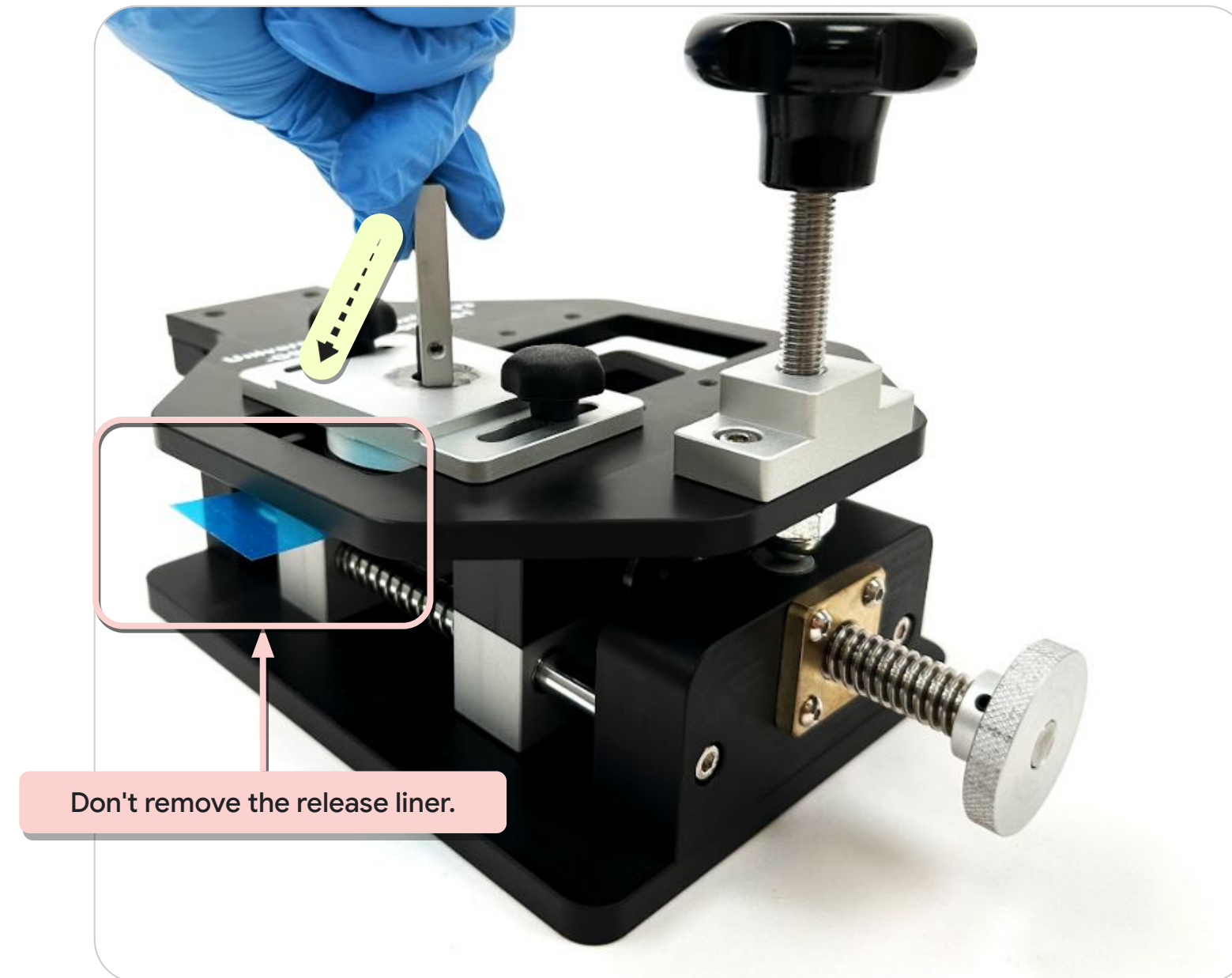
Slide to open

- Dip the 3.5-mm corner of the **Universal Disassembly ESD pick** in a proper amount of IPA.

- With the flat side down, slit following sequence 2 → 3 → 4.

- Pry at an angle to avoid insertion between **Display** and **Trim** (Fig 1).
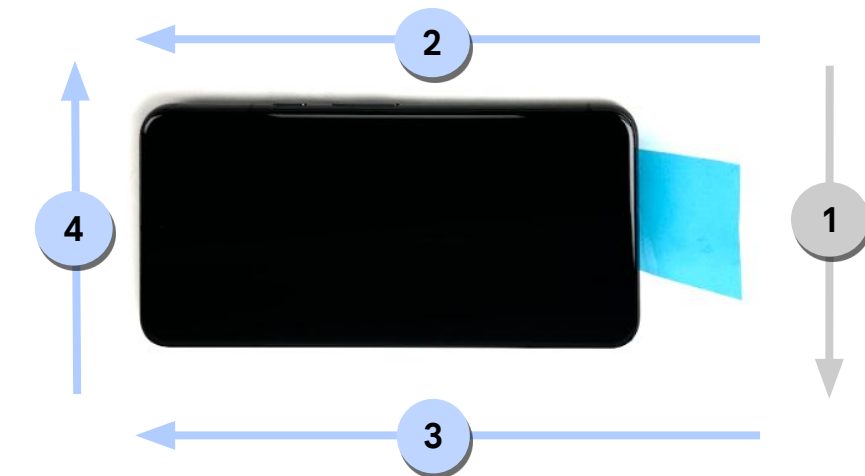
⚠️ **Use Caution**

Control the depth of insertion to avoid damaging the <u>Snaps</u> and <u>Springs</u>.

Don't use alcohol.

3.5mm

2mm

2mm

Fig 1

Disassemble Sequence:

1 (in fixture) ➜ **2** ➜ **3** ➜ **4** (out of fixture)

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 47

Slide to open-continued

- Slide along sides 2 and 3 at an angle with the **Universal Disassembly ESD pick** (Fig 1).

- Around the corners, slide to the stopper, and pry up (Fig 2).

⚠️ **Use Caution**

Don't slide horizontally.

Control the depth of insertion to avoid damaging the Snaps and Springs.

Don't use alcohol.

Pry up at an angle

Fig 1

Fig 2

Disassemble Sequence:

1 (in fixture) ➡ **2** ➡ **3** ➡ **4** (out of fixture)

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 48
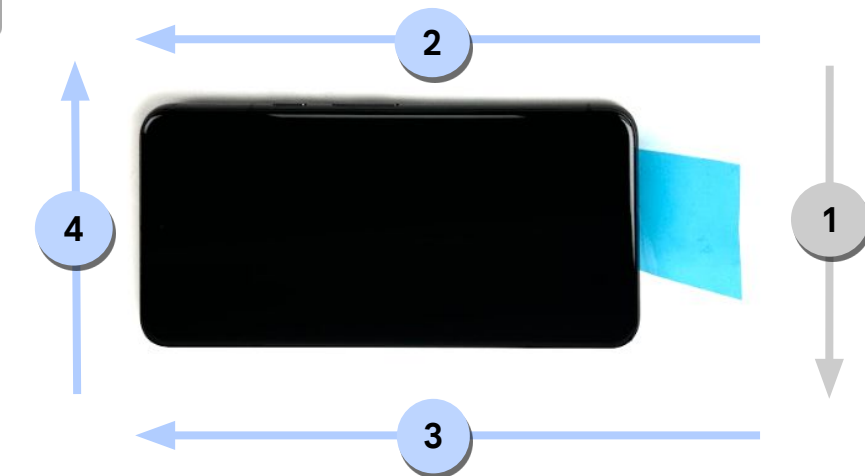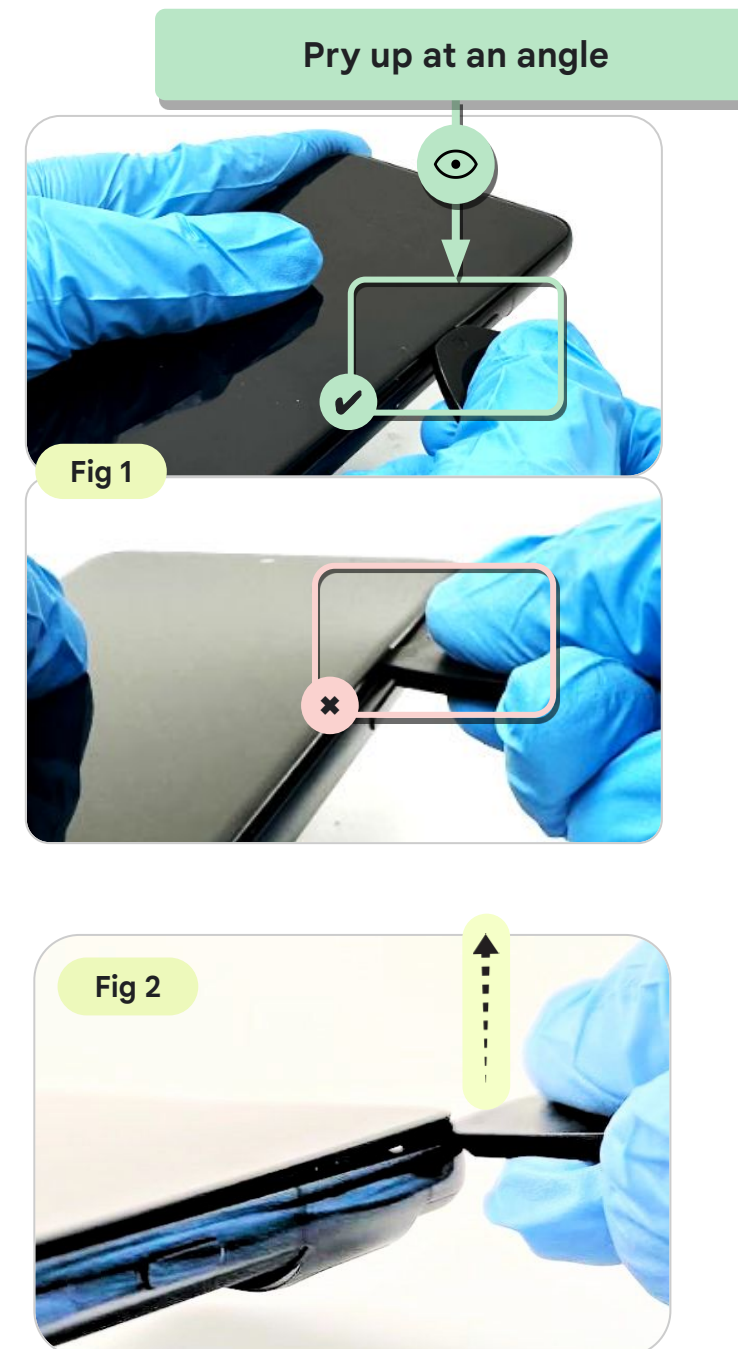
Hold Display

- Use the **Universal adsorption bulb** to hold the **Display**.

- Avoid touching the **Copper Foil**.

Note

Be careful not to stretch the Display Flex to prevent damage.

Also be careful not to touch the spring during the process.

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 49
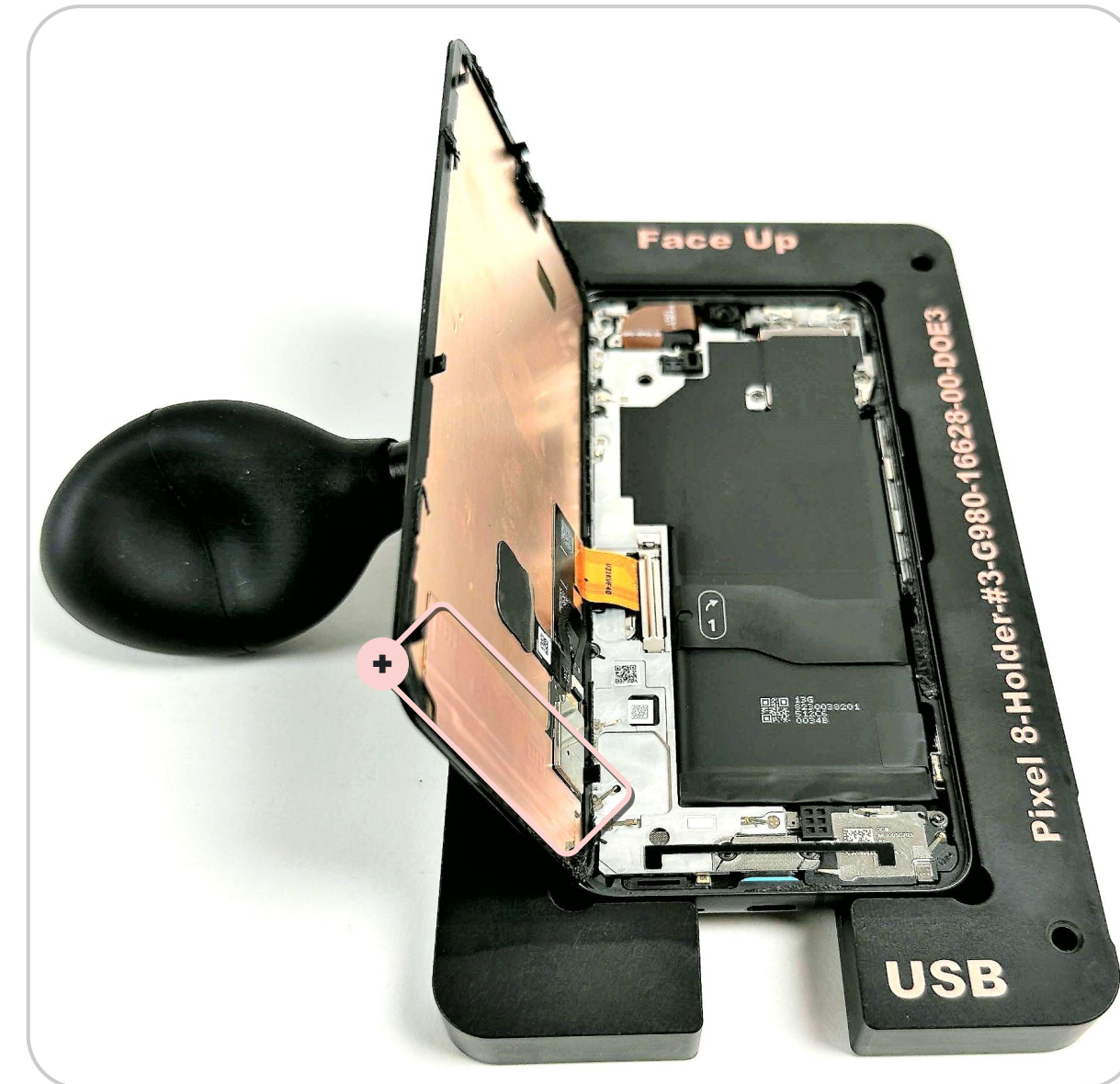
Remove cowling

Detach the **Display cowling** with a **Universal Disassembly ESD stick**.

| Part: G730-06613-21 (Display cowling-mmWave) |

| Part: G730-06613-22 (Display cowling-Sub6) |

Note

Don't reuse the part.

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 50

Disconnect Display

- Loosen the **Display Connector** with the **Pixel fish line tool.**

- Remove the **Display Module.**

> ### Note
> Use the **Pixel fish line tool** to avoid damaging the components.

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 51

Finished! Need assembly instructions? ➜

Check trim

- Check the Trim status to ensure the trim is not peeling away from the display.

> 💡 **Note**
>
> If the trim is separated from the display, the part may may need to be replaced to function as intended.

General Rules

Display Graphite Sheet Mid-frame Bottom Speaker Front Camera Rear Camera mmWave Module Battery Logic Board Top Speaker Mic 1 Bracket Enclosure

Pixel 8 Repair Manual v2.0 ®Google 2023 | Page 52

Disassembly
instructions
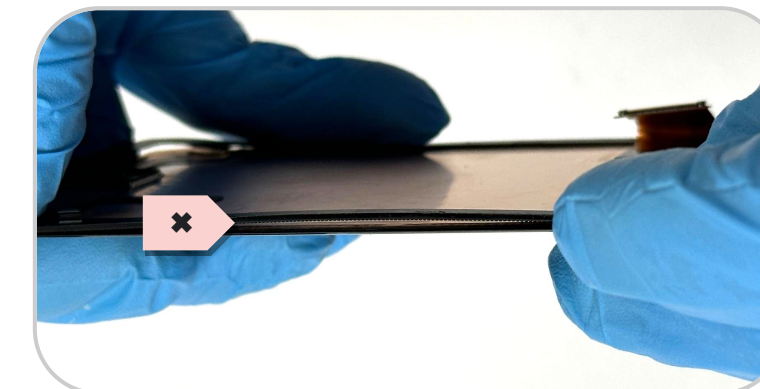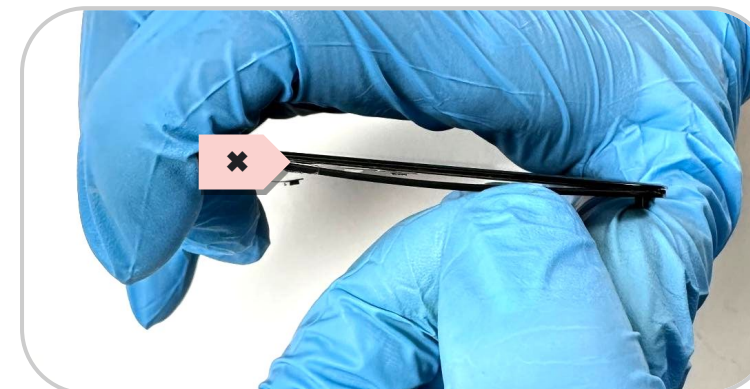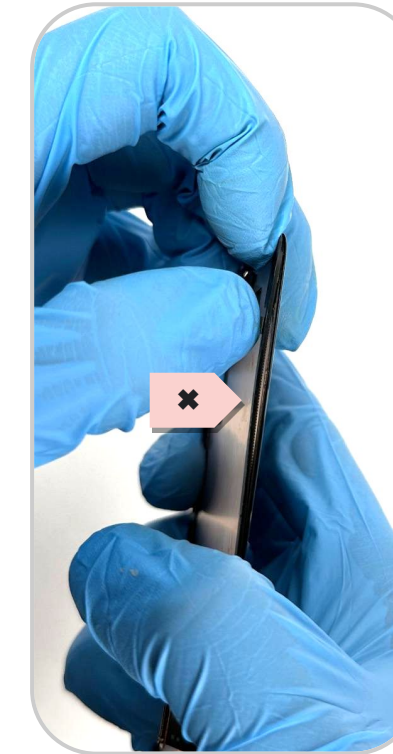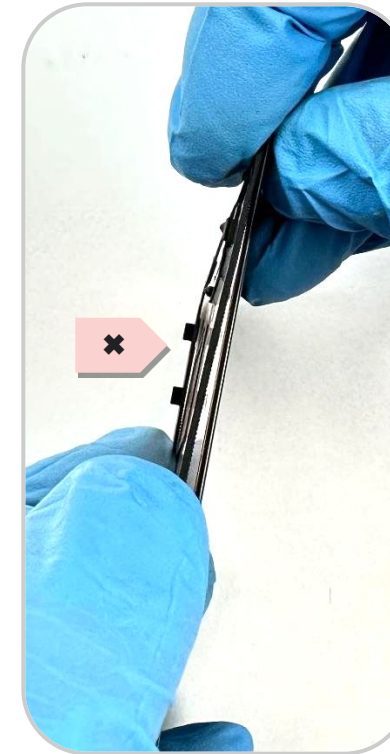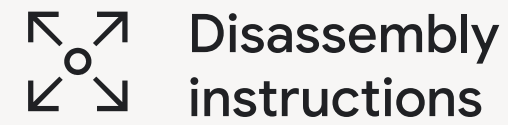
Graphite Sheet

Graphite Sheet are used to conduct heat
and provide electromagnetic shielding.

⚠ **Use caution!**

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

✓ **Prerequisites**

Remove the following
components first:

- **Display**

⚒ **Tools**

Pixel 8-Holder

Universal fish line tool

ESD Tweezers

Universal Scraper

⚒ Parts

Graphite Sheet

The parts listed are for the Graphite Sheet disassembly.
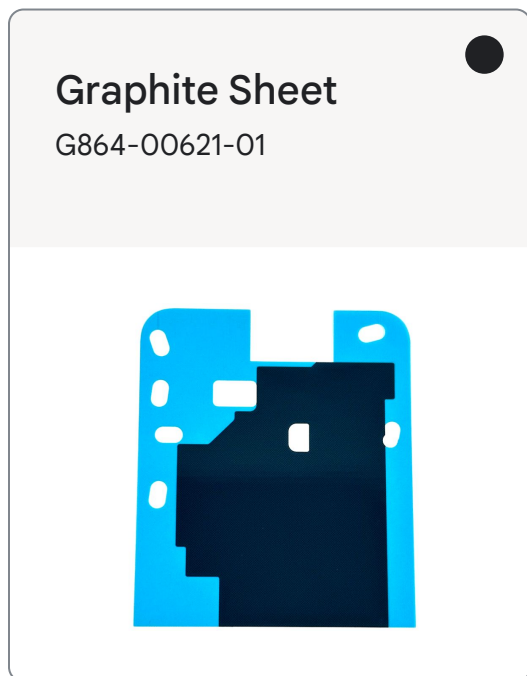
Graphite Sheet
G864-00621-01

Reuse indications   ● Reusable without Cleaning   ● Reusable after Cleaning   ● Not Reusable after disassembly

Disconnect 5G Module

- Loosen the **mmWave Connector** and disconnect it from the **Logic Board** with the **Universal fish line tool.**

- Part of the flex is adhered to the **Mid-frame**, so slowly peel it away.

> **Note**
>
> Use the **Universal fish line tool** to avoid damaging the components.
>
> The mmWave Flex is only needed for the mmWave Sku.

Connector

CPSA

Display   **Graphite Sheet**   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 55

Finished! Need assembly instructions? ➔

Remove Graphite Sheet

- **mmWave fpc** needs to be lifted **by hand**. Pick up the **Graphite Sheet** with **ESD Tweezers**.

- Remove the **Graphite Sheet** with **ESD Tweezers**.

Part: G864-00621-01 (Graphite Sheet)

⚠️ **Use Caution**

Be careful not to puncture the battery.

Don't reuse the part.

Entry point

Display   **Graphite Sheet**   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 56

Disassembly
instructions
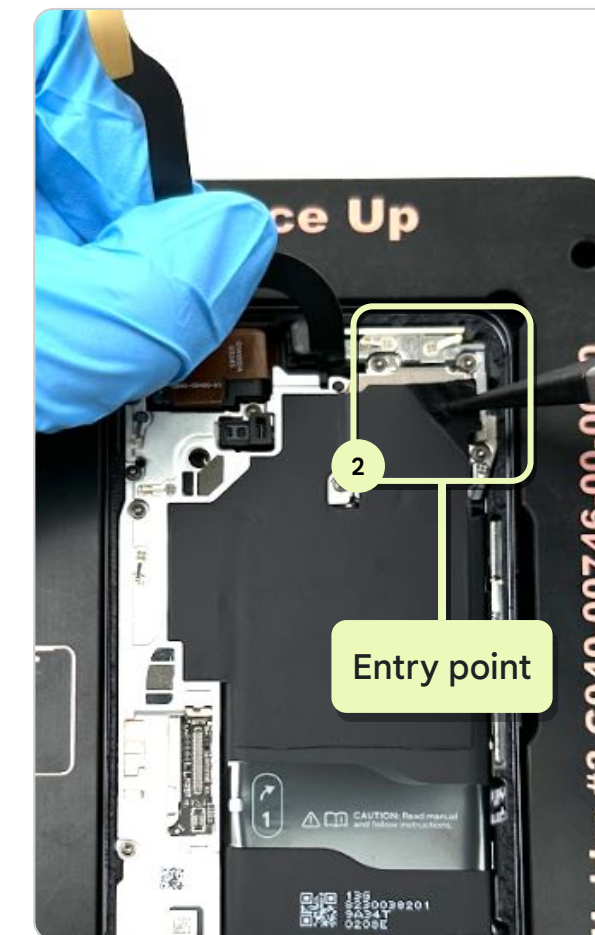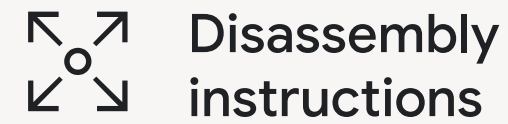
Mid-frame

The Mid-frame ensures connectors remain engaged
with the Logic Board and acts as a heatsink.

Use caution!

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

Prerequisites

Remove the following
components first:

- **Display**
- **Graphite Sheet**

Tools

Pixel 8-Holder

Pixel 8-Screw Cover

Adjustable torque
screwdriver

Screwdriver Hex Shank Torx
Plus Bit no.3

Universal Disassembly ESD
stick

ESD Tweezers

🛠 Parts

Mid-frame

The parts listed are for the Mid-frame disassembly.
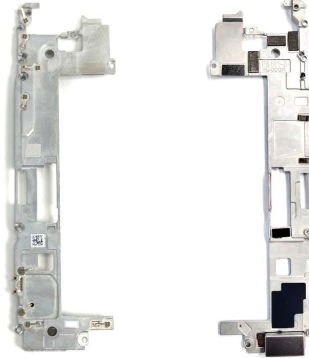
Reuse indications   🟢 Reusable without Cleaning   🔵 Reusable after Cleaning   ⚫ Not Reusable after disassembly

Mid-frame 🔵	**P-sensor Grommet** ⚫	**SOC Thermal Pad** ⚫
G949-00573-01	G806-07441-01	G806-07607-02

USB-C cowling 🟢	**Screw** ⚫	**DIC SHIM** ⚫
G853-01546-00	G250-06946-10	G806-09026-01

Remove DIC SHIM

Remove **DIC SHIM** with **ESD Tweezers**.

Part: G806-09026-01 (DIC SHIM)

⚠️ **Use Caution**

Don't reuse the part.

Display   Graphite Sheet   **Mid-frame**   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 59
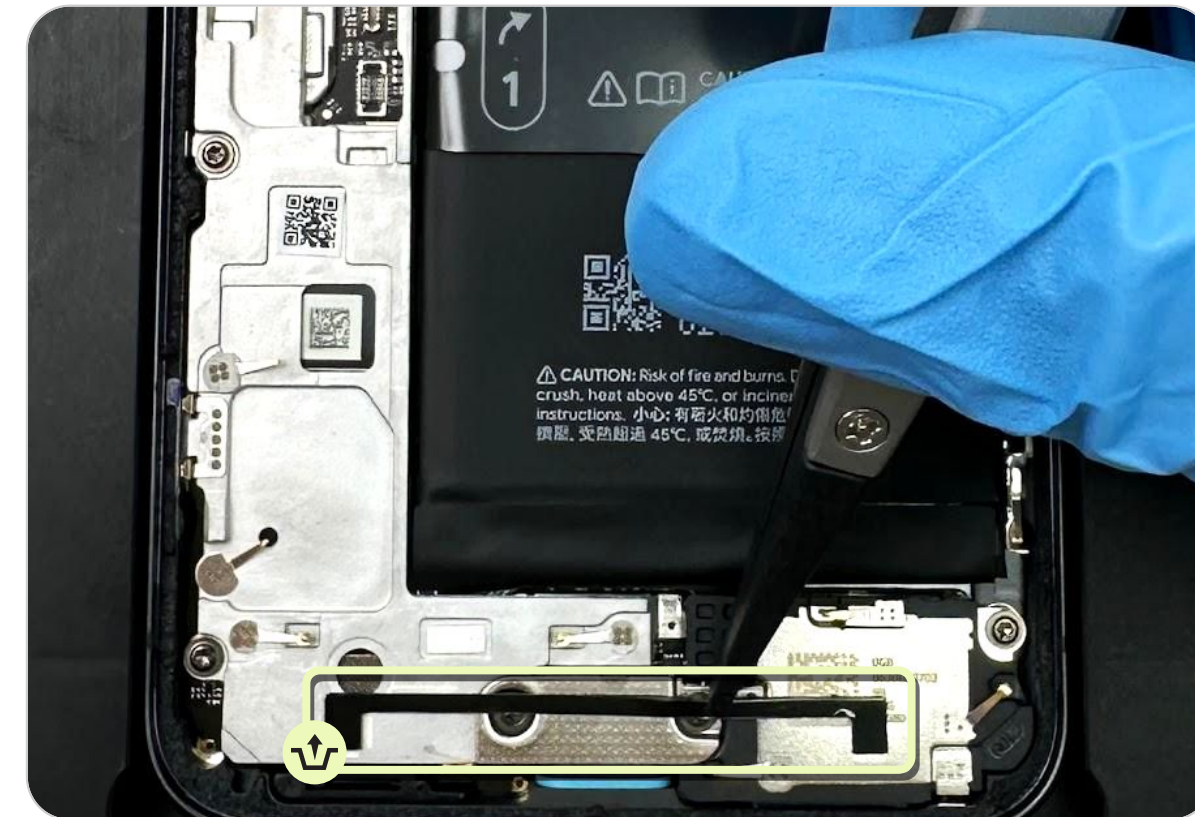
Remove screws

- Place the **Pixel 8-Screw Cover**.

- Remove **10 Mid-frame Screws** with a **Adjustable torque screwdriver** with **Screwdriver Hex Shank Torx Plus Bit no.3**, and remove the **Pixel 8-Screw Cover**.

Part: G250-06946-10 *10 (Screw)

⚠️ **Use Caution**

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

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

💡 **Note**

Don't reuse the parts.

Display   Graphite Sheet   **Mid-frame**   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 60

Remove USB-C cowling

Remove the **USB-C cowling** with **ESD Tweezers**.

Part: G853-01546-00 (USB-C cowling)

Display   Graphite Sheet   **Mid-frame**   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 61
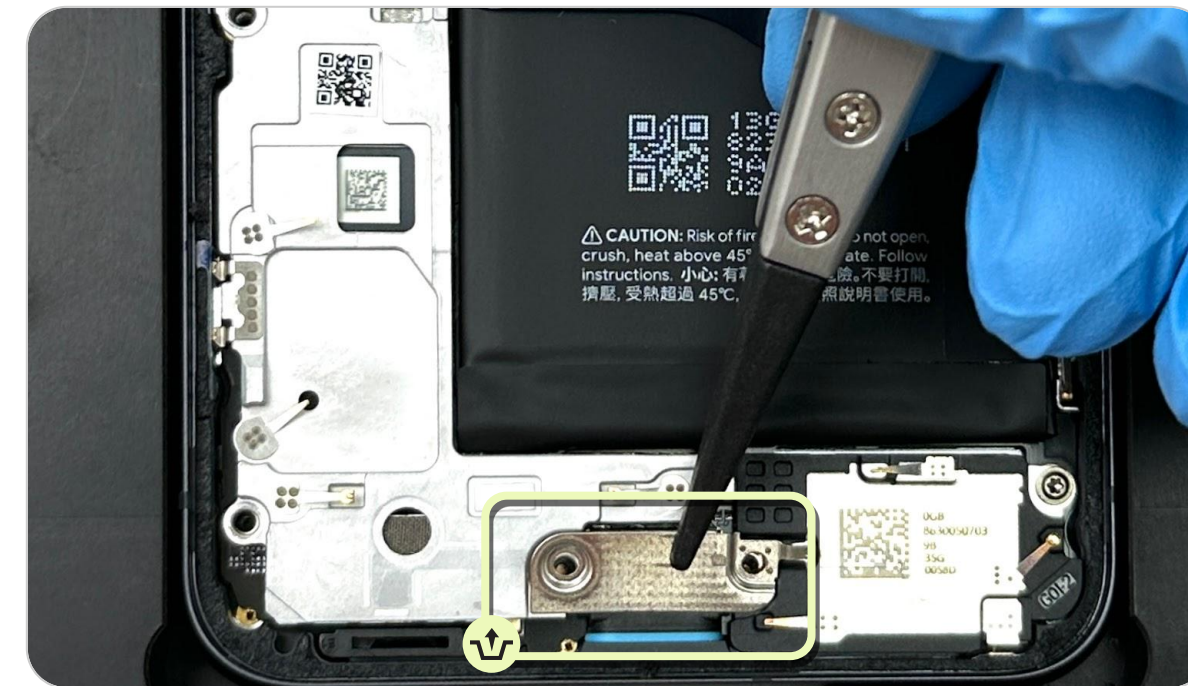
Remove Mid-frame

- **mmWave fpc** needs to be lifted by hand.

- Remove **Mid-frame** with **ESD Tweezers** from top.

Part: **G949-00573-01** (Mid-frame)

Slightly lift the FPC (only for mmWave)

Display   Graphite Sheet   **Mid-frame**   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 62

Disconnect Battery

Loosen the **Battery** connector, and disconnect the **Battery** from the **Logic Board** with the **Universal fish line tool**.

> ## Note
>
> Use the **Universal fish line tool** to avoid damaging the components.

Display   Graphite Sheet   **Mid-frame**   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 63
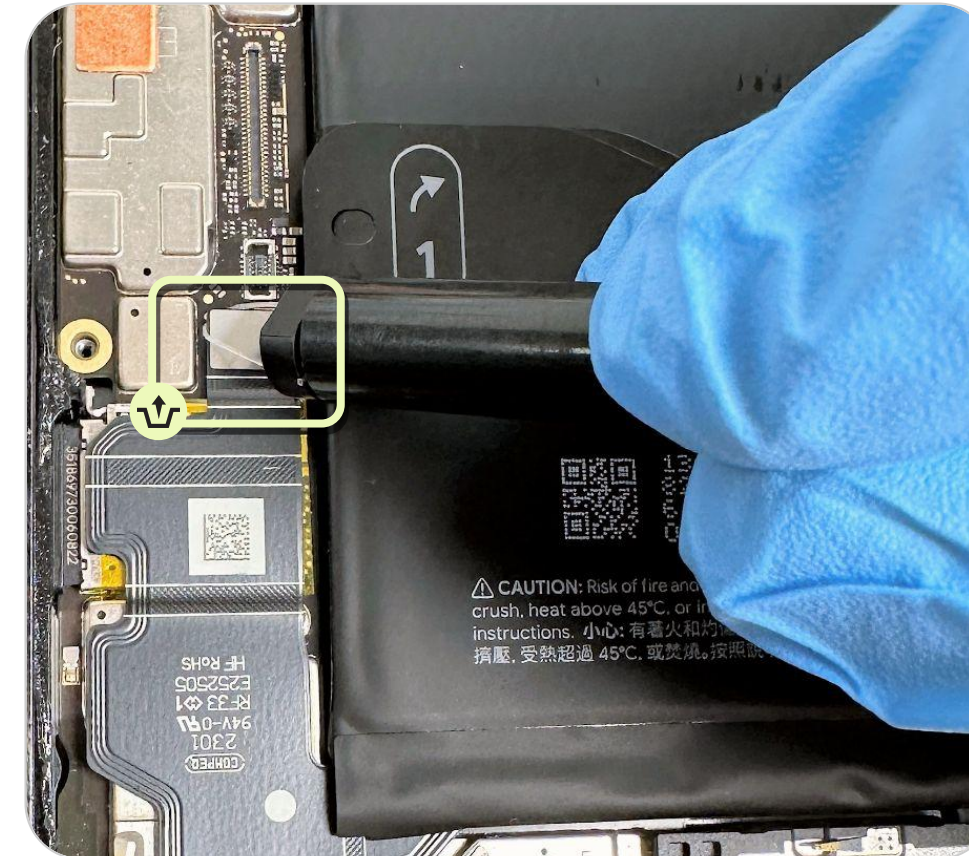
Finished! Need assembly instructions? ➜

Remove P-sensor Grommet, if deformed

Remove the **P-sensor Grommet** from the **Logic Board**.

| **Part: G806-07441-01** (P-sensor Grommet) |

💡 **Note**

Don't reuse the part.

Note that this step is only for replacing the P-sensor Grommet if it's deformed.

Display   Graphite Sheet   **Mid-frame**   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 64

Disassembly
instructions
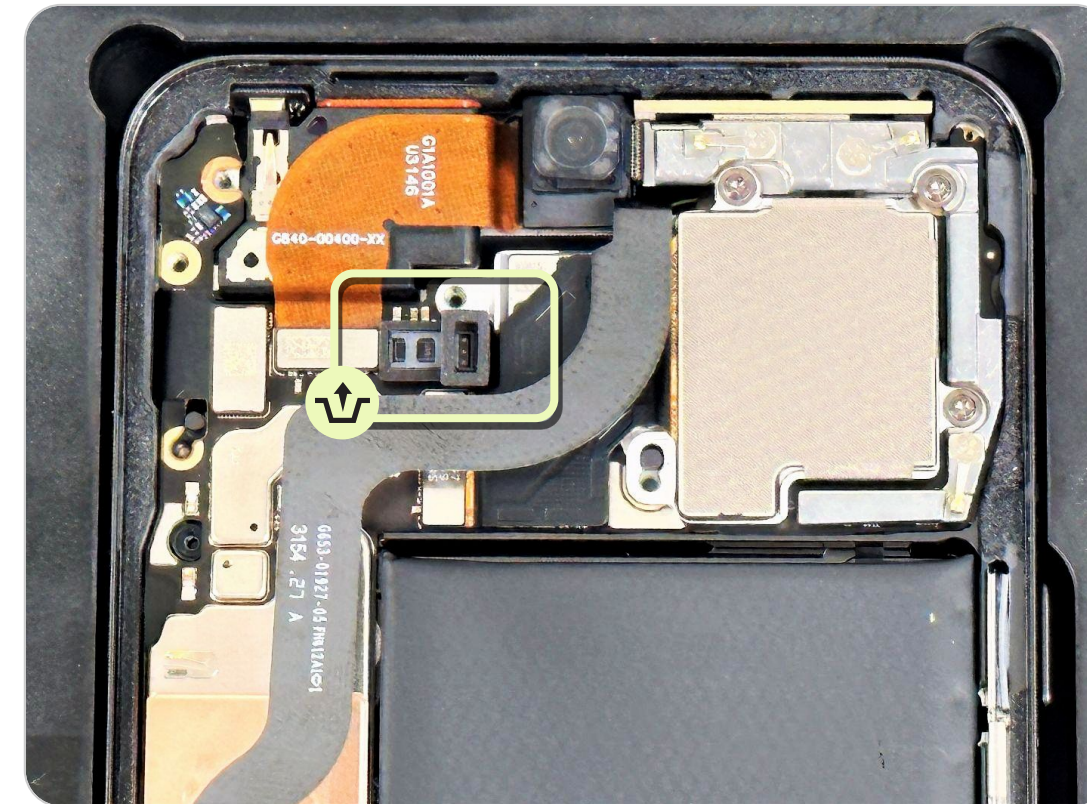
Bottom Speaker

The **Bottom Speaker** is adhered to the **Enclosure**.
Be careful not to damage the speaker membrane.

⚠ Use caution!

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

✓ Prerequisites

Remove the following components first:

- **Display**
- **Graphite Sheet**
- **Mid-frame**

⚒ Tools

Pixel 8-Holder

Pixel 8-Screw Cover

Adjustable torque screwdriver

Screwdriver Hex Shank Torx Plus Bit no.3

ESD spudger

🛠 Parts

Bottom Speaker

The parts listed are for the Bottom Speaker disassembly.

Reuse indications   🟢 Reusable without Cleaning   🔵 Reusable after Cleaning   ⚫ Not Reusable after disassembly

Bottom Speaker 🟢
G863-00507-03

Screw ⚫
G250-06946-10

Remove screw

- Place the **Pixel 8-Screw Cover** on the **Pixel 8-Holder**.

- Remove the **Bottom Speaker Screw** with a **Adjustable torque screwdriver** with **Screwdriver Hex Shank Torx Plus Bit no.3**, and remove the **Pixel 8-Screw Cover**.

Part: **G250-06946-10** (Screw)

○ **Note**

Don't reuse the part.

Display   Graphite Sheet   Mid-frame   **Bottom Speaker**   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 67

Finished! Need assembly instructions? ➜

Remove Bottom Speaker

Remove the **Bottom Speaker** with a **Universal Disassembly ESD stick**.

Part: **G863-00507-03** (Bottom Speaker)

Display   Graphite Sheet   Mid-frame   **Bottom Speaker**   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 68

Disassembly
instructions

Front Camera

The **Front Camera** is not fastened to the **Enclosure**.
It is simply connected to the **Logic Board**.

⚠ Use caution!

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

✓ Prerequisites

Remove the following components first:

- **Display**
- **Graphite Sheet**
- **Mid-frame**

⚒ Tools

Pixel 8-Holder

Universal fish line tool

🛠 Parts

Front Camera

The parts listed are for the Front Camera disassembly.
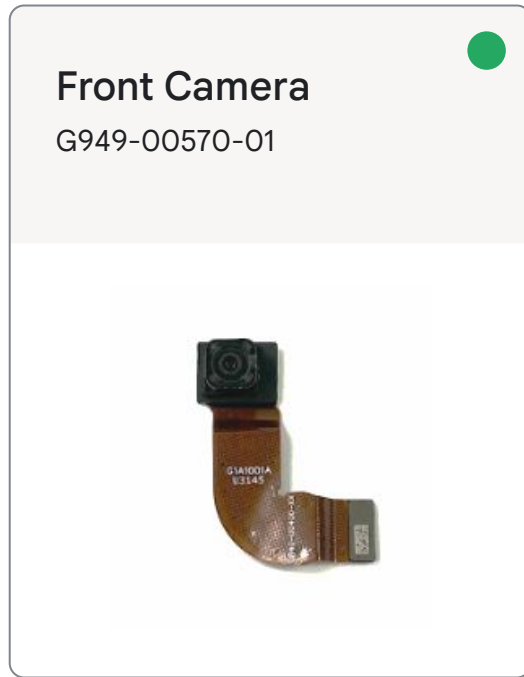
Front Camera ●
G949-00570-01

Reuse indications   ● Reusable without Cleaning   ● Reusable after Cleaning   ● Not Reusable after disassembly

Finished! Need assembly instructions? ➜

Remove Front Camera

- Part of the **Front Camera fpc** is adhered to the **Top Speaker**, so slowly peel it away (Fig 1).

- Loosen the **Front Camera Connector** from the **Logic Board** with the **Universal fish line tool** (Fig 2).

Part: G949-00570-01 (Front Camera)

💡 **Note**

Using the Universal fish line tool avoids damaging the components.

Fig 1

Adhesive area

Fig 2

Display   Graphite Sheet   Mid-frame   Bottom Speaker   **Front Camera**   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 71

Disassembly
instructions
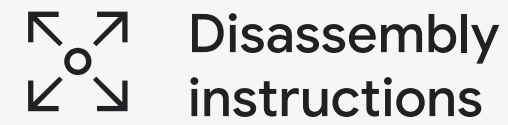
Rear Camera

This generation is allowed to replace separate Rear Camera.

⚠ Use caution!

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

✓ Prerequisites

Remove the following components first:

- **Display**
- **Graphite Sheet**
- **Mid-frame**

🛠 Tools

Pixel 8-Holder

Pixel 8-Screw Cover

Universal fish line tool

Adjustable torque screwdriver

Screwdriver Hex Shank Torx Plus Bit no.3

ESD Tweezers

Ionizing air fan

⚒ Parts

Rear Camera

The parts listed are for the Rear Camera disassembly.

| Reuse indications | 🟢 Reusable without Cleaning | 🔵 Reusable after Cleaning | ⚫ Not Reusable after disassembly |

Rear Camera UW 🟢
G949-00571-01

Rear Camera 🟢
G949-00572-01

Screw ⚫
G250-06946-10

Remove screws

- Place the **Pixel 8-Screw Cover** on the **Pixel 8-Holder**.

- Remove the **2 Rear Camera Screws** with a **Adjustable torque screwdriver** with **Screwdriver Hex Shank Torx Plus Bit no.3**, and remove the **Pixel 8-Screw Cover**.
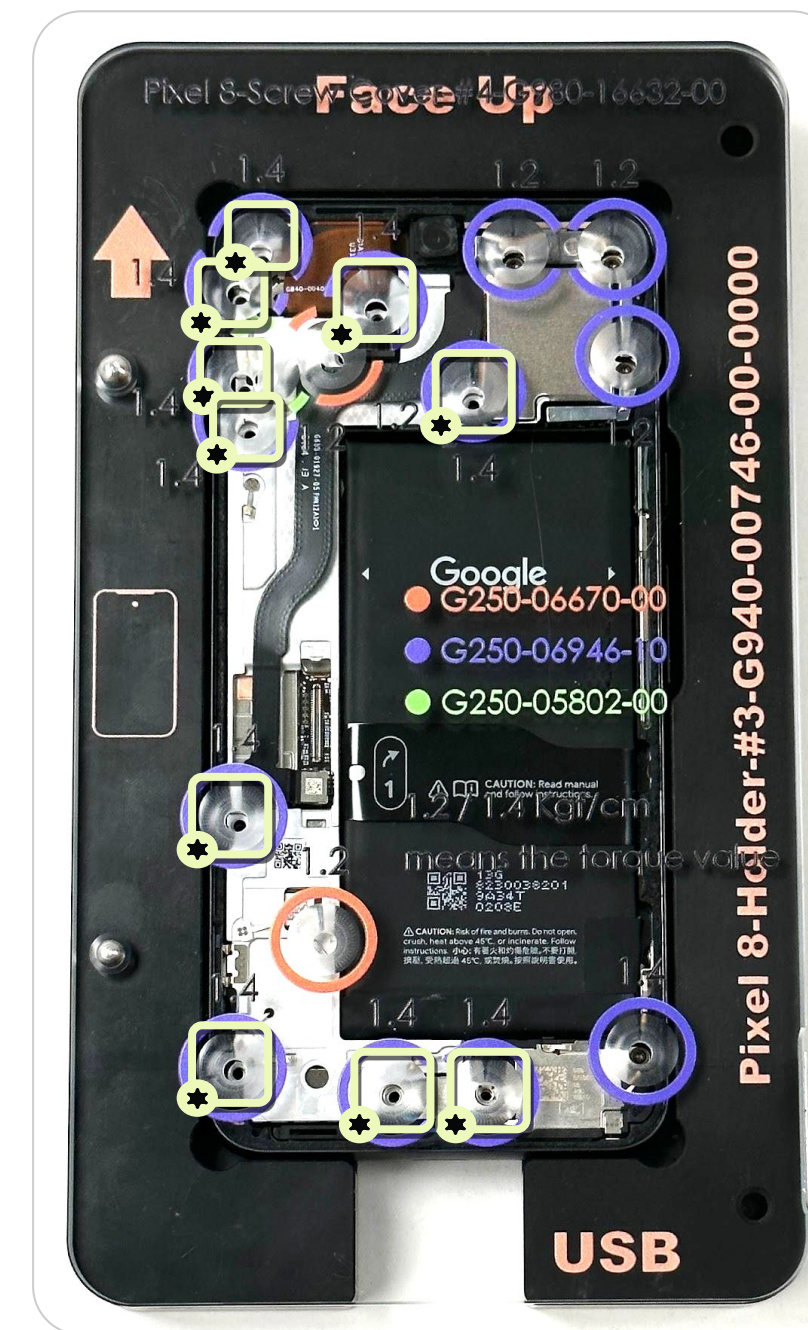
Part: G250-06946-10 *2 (Screw)

💡 **Note**

Don't reuse the parts.

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   **Rear Camera**   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 74

Remove Rear Camera

- Loosen the **Rear Camera connector** from the **Logic Board** with a **Universal fish line tool**.

- Remove the **Rear Camera** with **ESD Tweezers**.

Part: G949-00572-01 (Rear Camera)

⚠️ **Use Caution**

Ensure the environment is clean for this process.

Make sure the camera socket is clear of dust and debris.

💡 **Note**

Use the **Universal fish line tool** to avoid damaging the components.

Slightly lift the FPC (only for mmWave)

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   **Rear Camera**   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 75
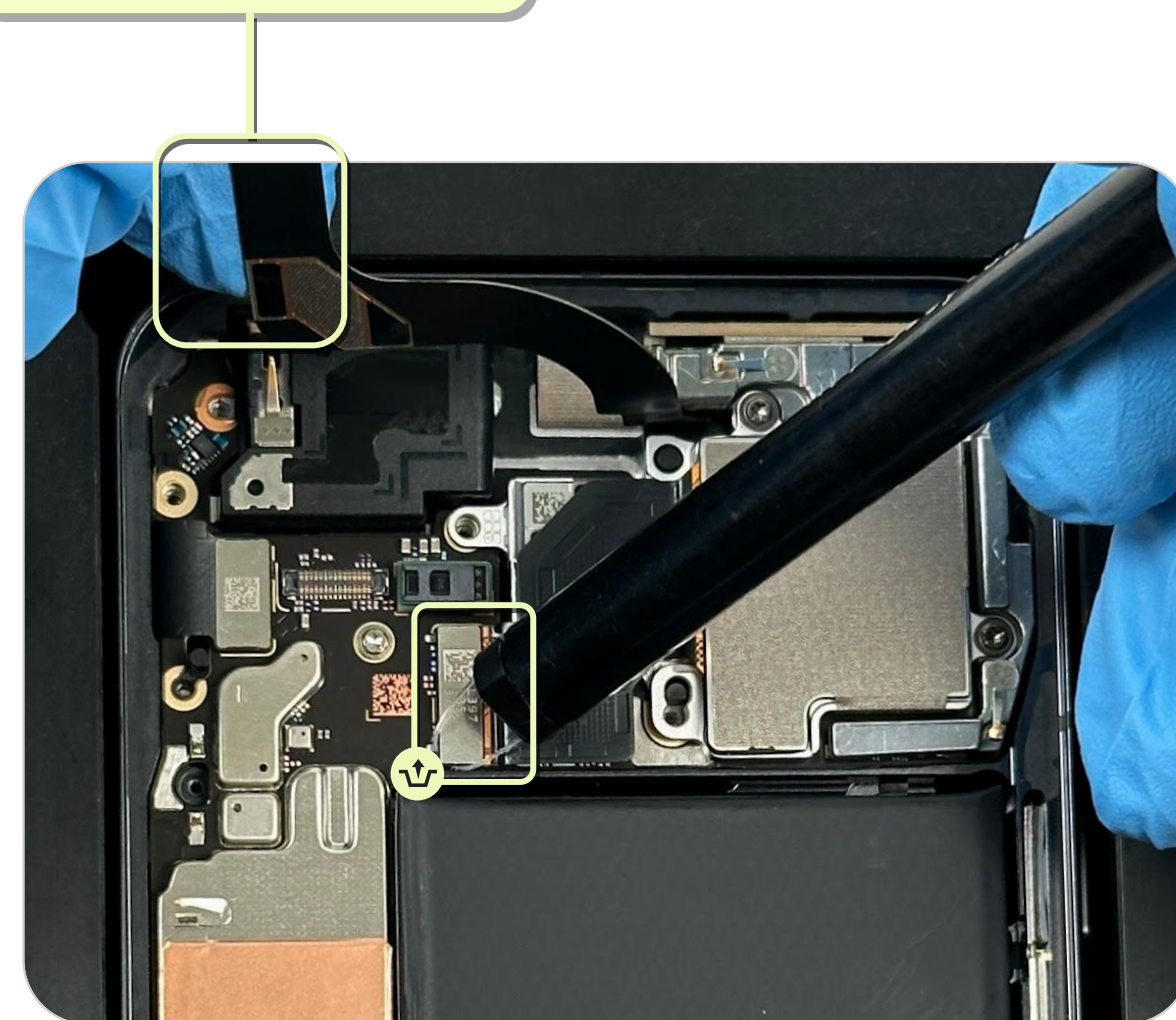
Remove Rear Camera UW

- Loosen the **Rear Camera UW connector** from the **Logic Board** with a **Universal fish line tool**.

- Remove the **Rear Camera UW** with **ESD Tweezers**.

Part: G949-00571-01 (Rear Camera UW)

⚠️ **Use Caution**

Ensure the environment is clean for this process.

Make sure the camera socket is clear of dust and debris.

💡 **Note**

Use the **Universal fish line tool** to avoid damaging the components.

Slightly lift the FPC (only for mmWave)

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   **Rear Camera**   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 76

Disassembly
instructions
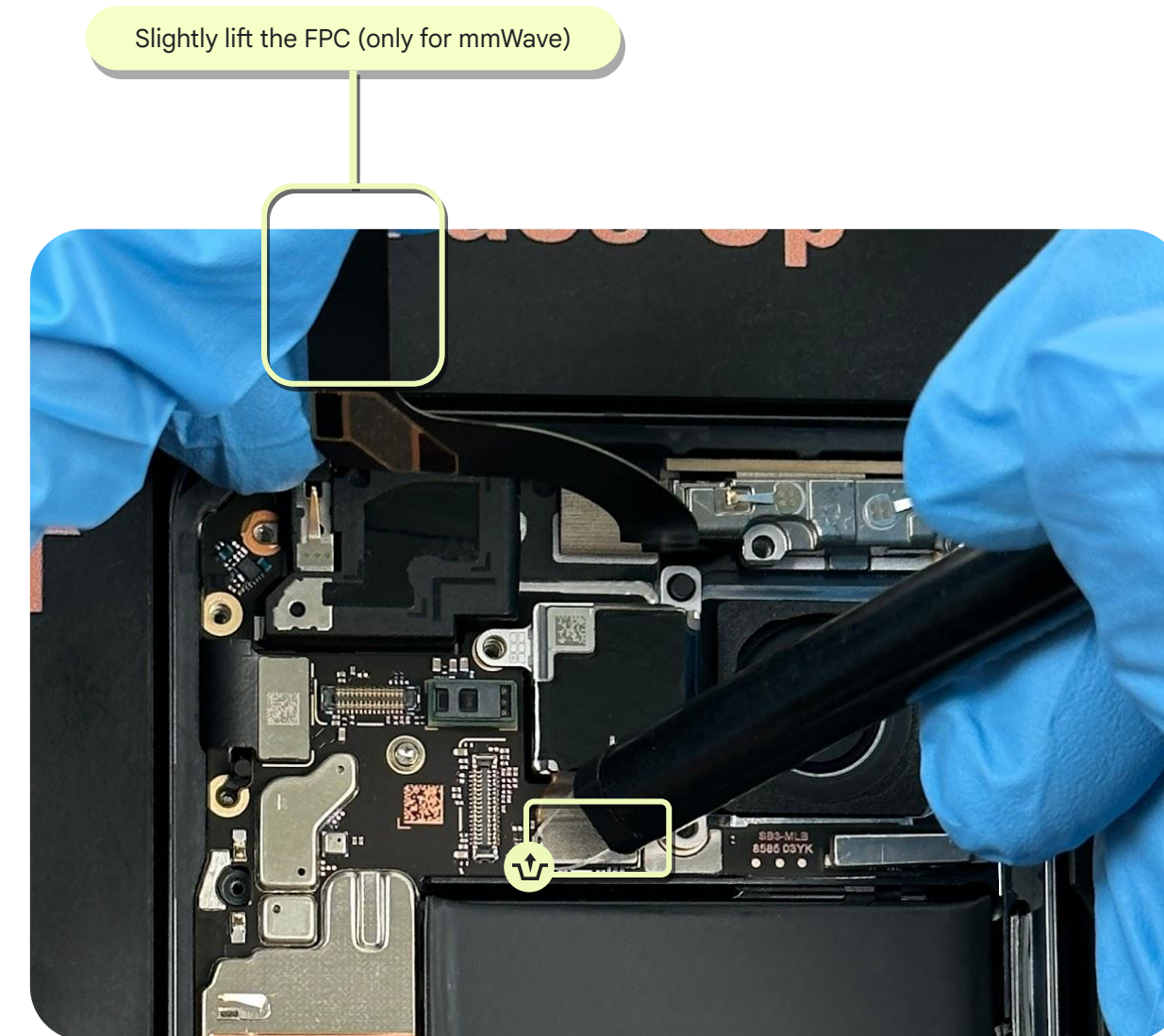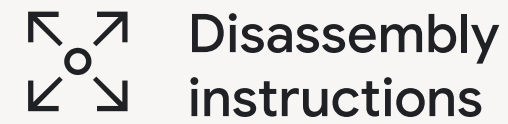
mmWave Module

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

⚠ Use caution!

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

⊘ Prerequisites

Remove the following components first:

- **Display**
- **Graphite Sheet**
- **Mid-frame**
- **Rear Camera**

⚒ Tools

Pixel 8-Holder

Pixel 8-Screw Cover

Adjustable torque screwdriver

Screwdriver Hex Shank Torx Plus Bit no.3

Universal Disassembly ESD stick

ESD Tweezers
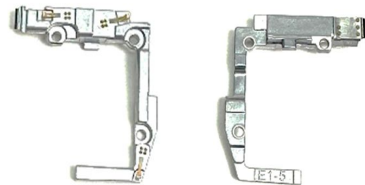
🛠 Parts

mmWave Module

The parts listed are for the mmWave Module disassembly.

Reuse indications   🟢 Reusable without Cleaning   🔵 Reusable after Cleaning   ⚫ Not Reusable after disassembly

mmWave Heatsink 🔵	Sub6 Heatsink 🟢	mmWave Thermal Pad ⚫
G730-06611-21	G730-06611-22	G806-07909-01

Screw ⚫	5G Module 🔵	mmWave Flex 🔵
G250-06946-10	G345-01353-06	G652-01927-06

mmWave Flex CPSA-1 ⚫	mmWave Flex CPSA-2 ⚫
G806-11703-00	G806-11704-00

Remove screw

- Place the **Pixel 8-Screw Cover** on the **Pixel 8-Holder**.

- Remove the **Heatsink Screw** with a **Adjustable torque screwdriver** with **Screwdriver Hex Shank Torx Plus Bit no.3**, and remove the **Pixel 8-Screw Cover**.
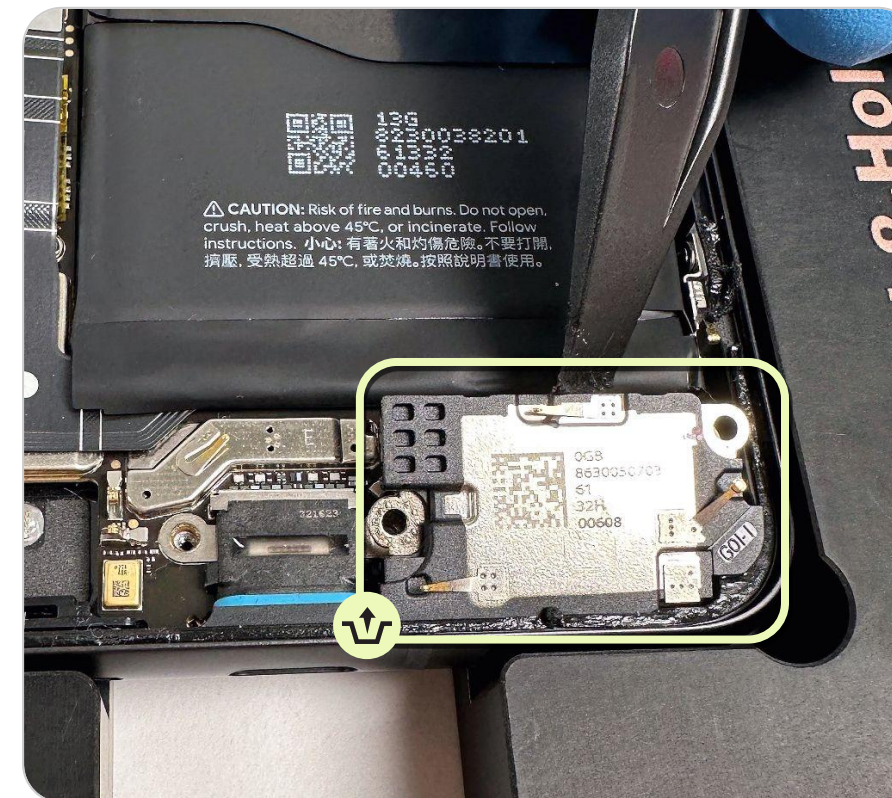
Part: G250-06946-10 (Screw)
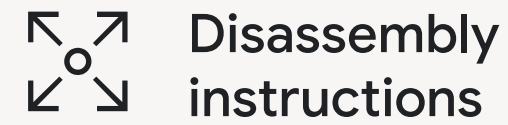
> **Note**
>
> Don't reuse the part.

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   **mmWave Module**   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 79

Remove Heatsink

Lift the **mmWave Bracket** with **ESD Tweezers**.

Part: G730-06611-21 (mmWave Heatsink)

Part: G730-06611-22 (Sub6 Heatsink)

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   **mmWave Module**   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 80
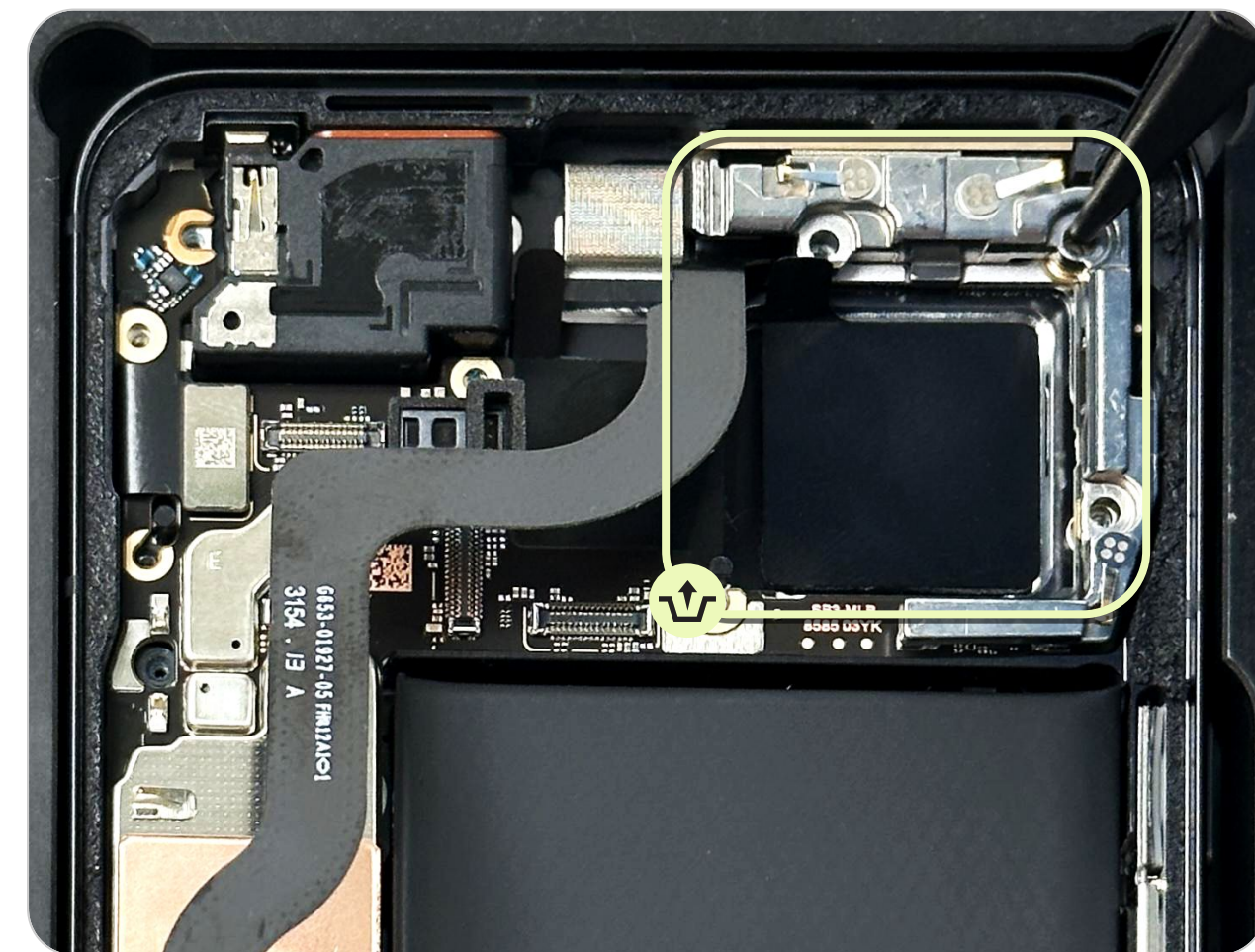
Finished! Need assembly instructions? ➜

Remove 5G Module

Remove the **5G Module** and **mmWave Flex** together from the **Enclosure**.

Part: G345-01353-06 (5G Module)

Part: G652-01927-06 (mmWave Flex)

💡 **Note**

This step is only needed for the mmWave Sku.

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   **mmWave Module**   Battery   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 81

Battery

Use caution!

Use caution if engaging in repair.

Opening and/or repairing a device can present electric shock, device damage, fire and personal injury risks, and other hazards.

Before servicing 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, immediately cover in sand or use gloves and tongs to place battery in a fire safe.

- Take care to prevent shorting of battery terminals or damaging the battery, as fire or overheating could result.

- Dispose of the battery in a manner in accordance with local regulations.

Confirm Before Proceeding

- Battery is fully discharged and the device is disconnected from all power sources.

- Inspect the battery if the phone battery shows signs of swelling or damage, or if the phone feels hot or emits 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 once disassembled.

Battery

It's recommended to use the Universal Disassembly Fixture to hold the device during the Battery removal process.

Use caution!

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

Prerequisites

Remove the following components first:

- **Display**
- **Graphite Sheet**
- **Mid-frame**

Tools

Heat Plate

Universal Disassembly Fixture

Universal Base

Universal Press

Universal Press Plate 12mm

Pixel 8-Bat Press-#1

Pixel 8-Holder

Pixel 8-Battery Press Rubber

Universal adsorption bulb

Table C-Clamp

ESD Tweezers

Feeler gauge

Ionizing air fan

3M AP111 Primer

🛠 Parts

Battery

The parts listed are for the Battery disassembly.
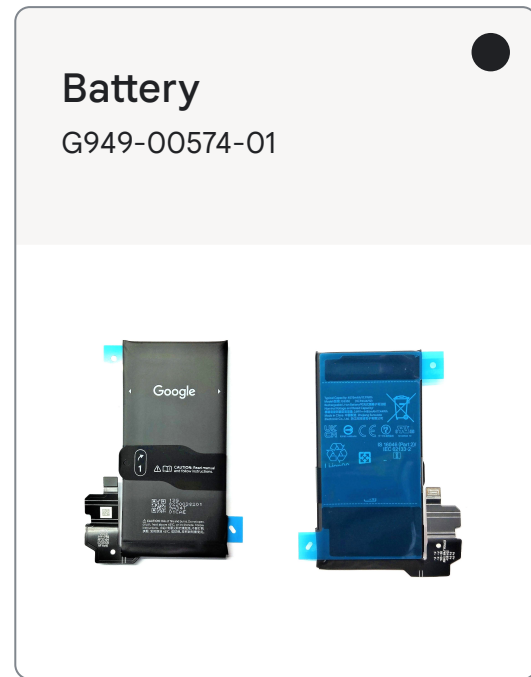
Reuse indications 🟢 Reusable without Cleaning   🔵 Reusable after Cleaning   ⚫ Not Reusable after disassembly

Battery
G949-00574-01

⚫

Caution ⚠

Examples of unacceptable battery conditions - Not suitable for repair*

Pouch damage
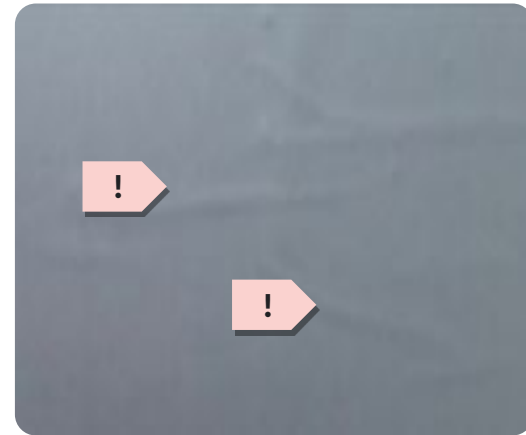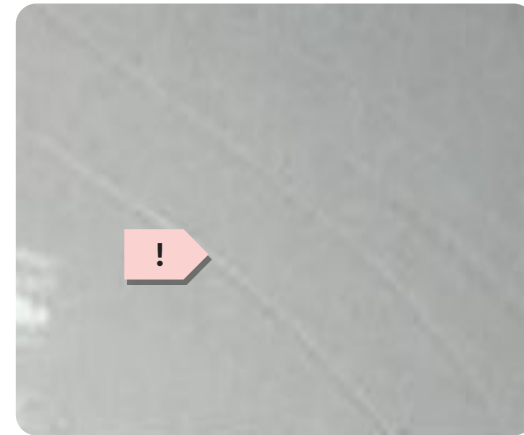
Line protrusion

Scratch
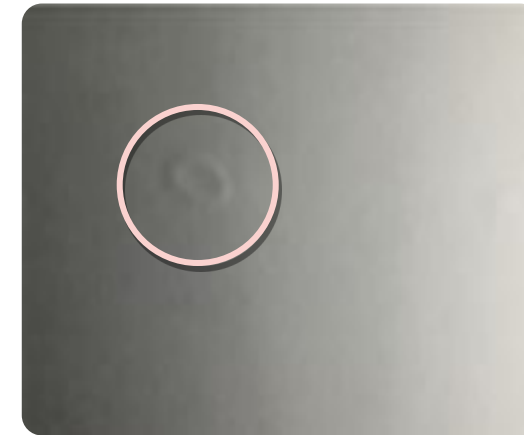
Contamination marking
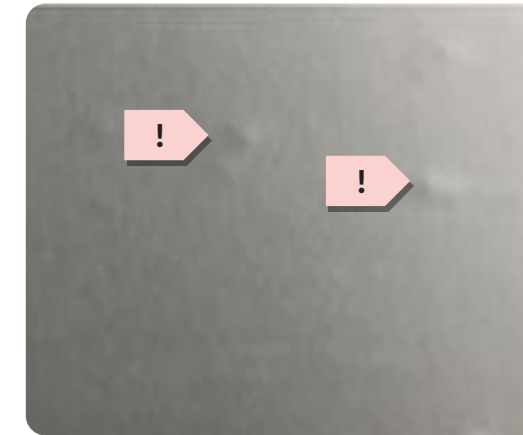
Dot protrusion

Dent

Bubbling

Imprinted line
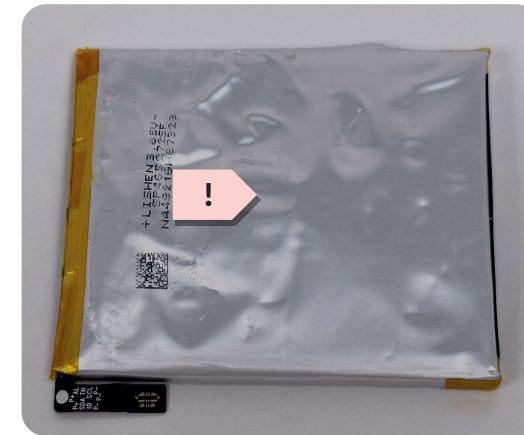
Swelling or electrolyte leakage

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

Peel back pull jacket

Peel back the pull jacket on the battery following the instructions printed on the tabs using **ESD Tweezers**.

Part: G949-00574-01 (Battery)

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   **Battery**   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 86
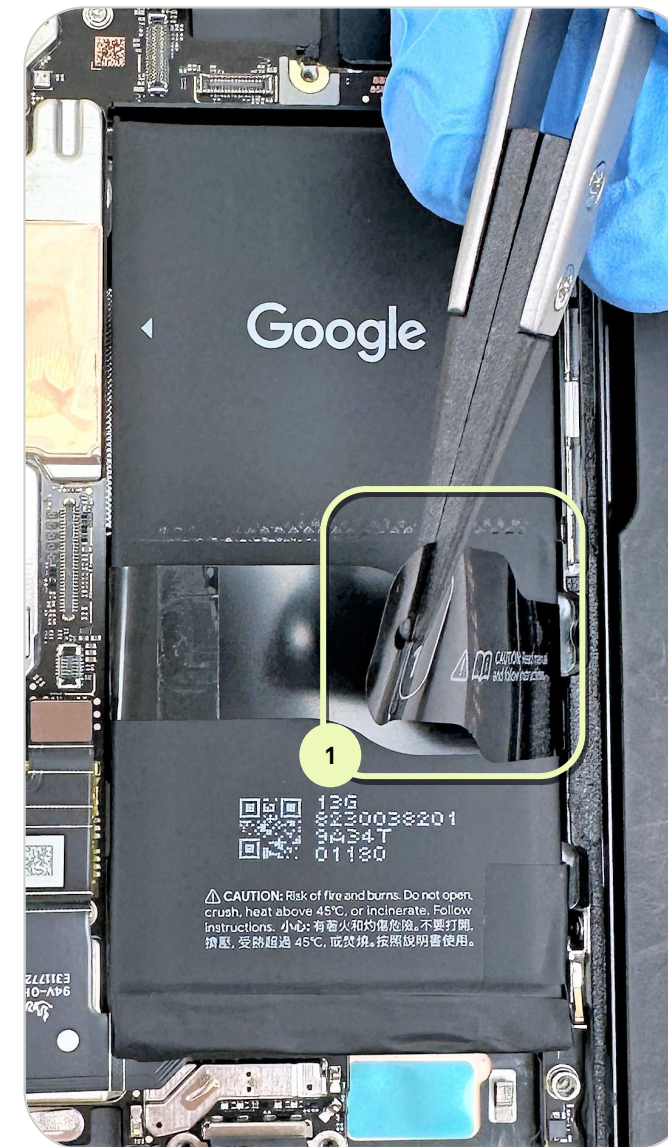
Adjust pull jacket

- Wearing **ESD Finger cots** can help to increase friction, making the pull jacket easier to grip.

- Move the pull jacket horizontally toward the top of the phone, stopping when the arrows on the pull jacket are at or below the arrows on the **Battery** (Fig 1).

⚠️ **Use Caution**

The intent of the pull jacket is to provide leverage to pull on the Battery, NOT to cut through the adhesive.

When moving the pull jacket, make sure the arrows on the jacket don't exceed those on the Battery.

Adhesive

Pull Jacket

Adhesive

Fig 1

Fig 2

Display · Graphite Sheet · Mid-frame · Bottom Speaker · Front Camera · Rear Camera · mmWave Module · **Battery** · Logic Board · Top Speaker · Mic 1 Bracket · Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 87
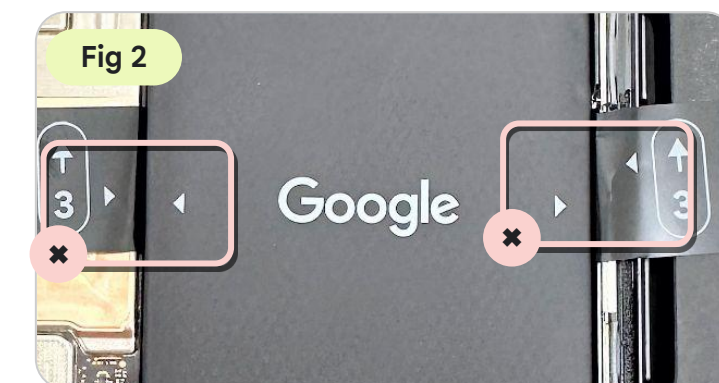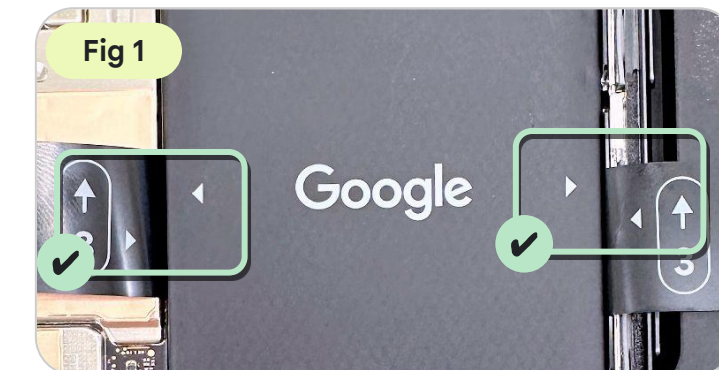
Soften adhesive

Place the device back down on the **Heat Plate** set to **158°F/70 °C for 10 mins** to soften the **Battery** adhesive evenly. To ensure even heating, don't rest the camera visor area on the heating surface.

⚠️ **Use Caution**

Heat plate is a Hot Surface. Use caution as it could cause burns.

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   **Battery**   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 88

Clamp fixture

- Place the **Universal Disassembly Fixture** on a flat surface and fasten down with a clamp.

- Align the **Table C-Clamp** with the fixture, and make sure the clamp is fastened tightly.

Secure device

- Use the **Universal Disassembly Fixture** to remove the **Battery**.

- Place the device on the **Fixture** and adjust so the device is centered.

- Turn the handle clockwise to lock the device in position.

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   **Battery**   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 90
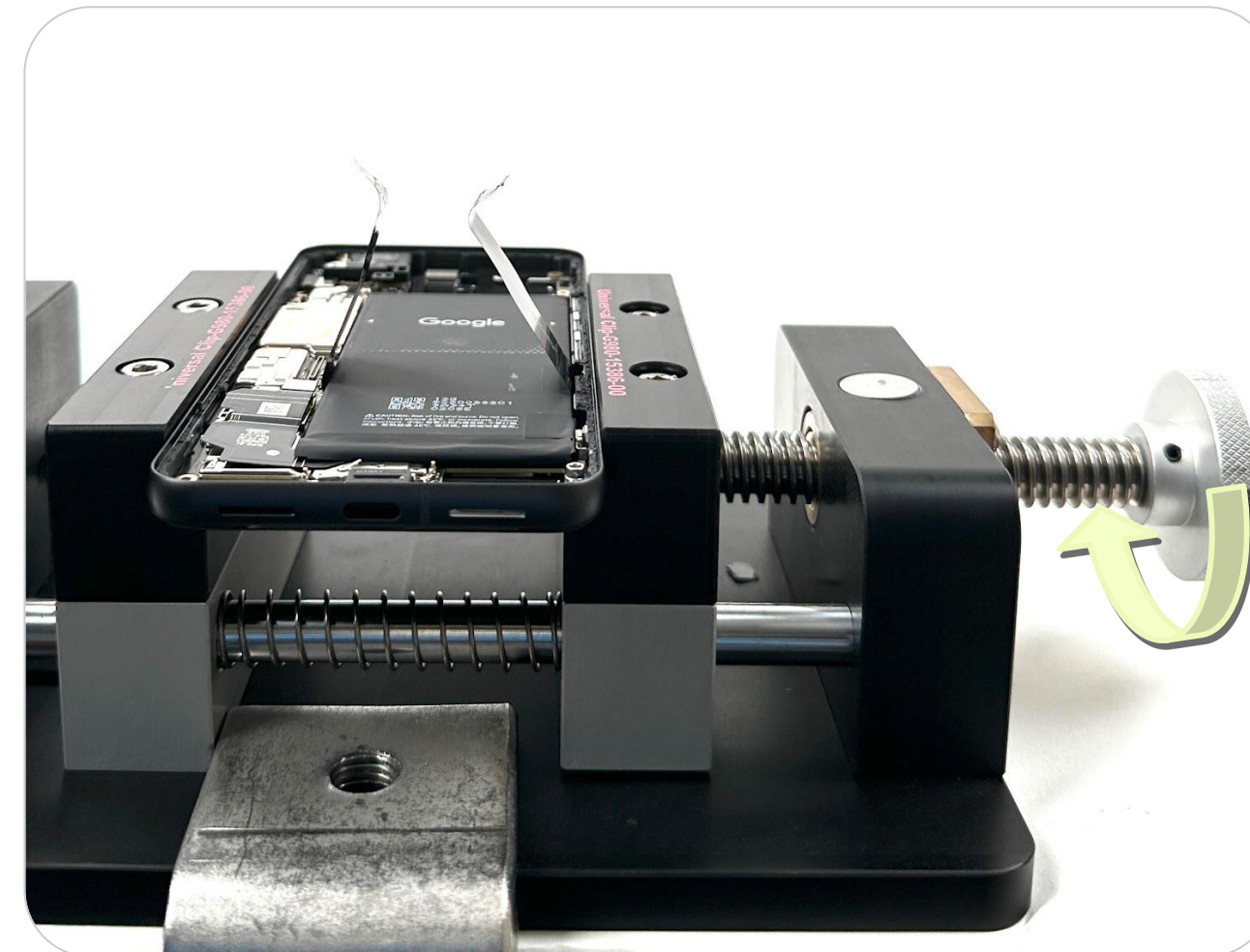
Lift Battery

- Wearing **ESD Finger cots** can help to increase friction and make the pull jacket easier to grip.

- Pull both sides of the jacket upward, perpendicular to the device, to remove the **Battery**.

⚠ **Use Caution**

The battery may be easier to remove if you lift the battery as soon as the device leaves the heat plate.

Pull directly upward.

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   **Battery**   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 91
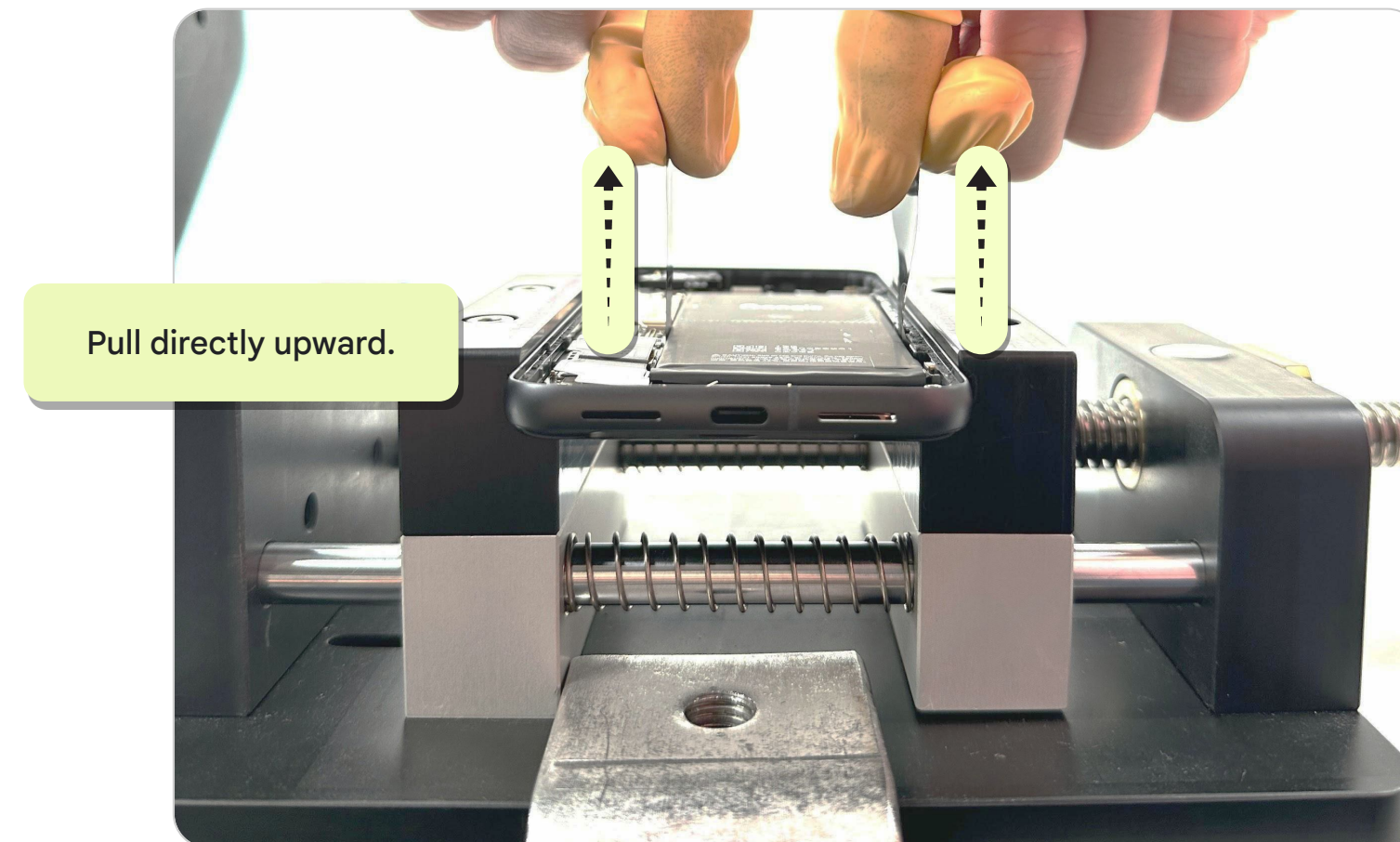
Finished! Need assembly instructions? ➜

Remove Battery

- Gently remove the **Battery**.

- Store the battery safely and dispose of the battery in a manner in accordance with local regulations.

Part: G949-00574-01 (Battery)

⚠️ **Use Caution**

Keep small screws and sharp objects away from the Battery.

For your safety, we don't recommend reinstalling the battery after removal. After removal, install a new battery.

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   **Battery**   Logic Board   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 92

Disassembly
instructions

Logic Board

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

⚠ Use caution!

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

✓ Prerequisites

Remove the following components first:

- **Display**
- **Graphite Sheet**
- **Mid-frame**
- **Bottom Speaker**
- **Front Camera**
- **Rear Camera**
- **mmWave Module**
- **Battery**

⚒ Tools

Pixel 8-Holder

Pixel 8-Screw Cover

Universal fish line tool

Adjustable torque screwdriver

Screwdriver Hex Shank Torx Plus Bit no.3

Universal Disassembly ESD stick

ESD Tweezers

IPA and cloth

Dust-free Cotton swabs

Sankol lubricant CFD 409Z_V2

🛠 Parts

Logic Board

The parts listed are for the Logic Board disassembly.

Reuse indications   🟢 Reusable without Cleaning   🔵 Reusable after Cleaning   ⚫ Not Reusable after disassembly

Logic Board 🔵	SIM Tray 🟢	Screw ⚫	Screw ⚫	ANT 7 Bracket 🟢
Multiple Part Numbers	Multiple Part Numbers	G250-06670-00	G250-05802-00	G853-01545-01

Remove screw

Remove the **ANT 7 Screw** with a **Adjustable torque screwdriver** with **Screwdriver Hex Shank Torx Plus Bit no.3**, and remove the **Pixel 8-Screw Cover**.

Part: G250-05802-00 (Screw)

💡 **Note**

Don't reuse the part.

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   **Logic Board**   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 95
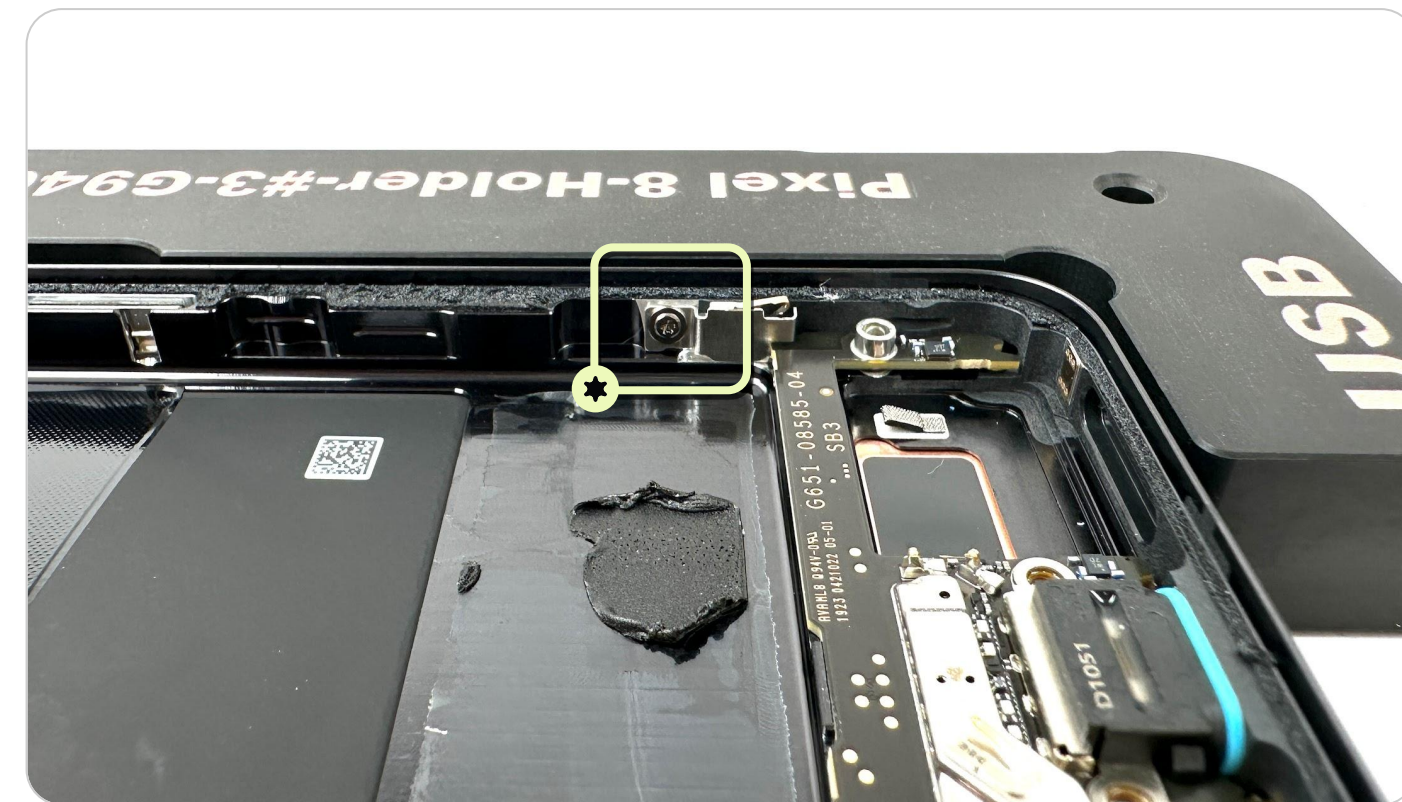
Remove ANT 7 Bracket

- Remove the **ANT 7 Bracket** with the **ESD Tweezers**.

Part: G853-01545-01 (ANT 7 Bracket)

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   **Logic Board**   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 96
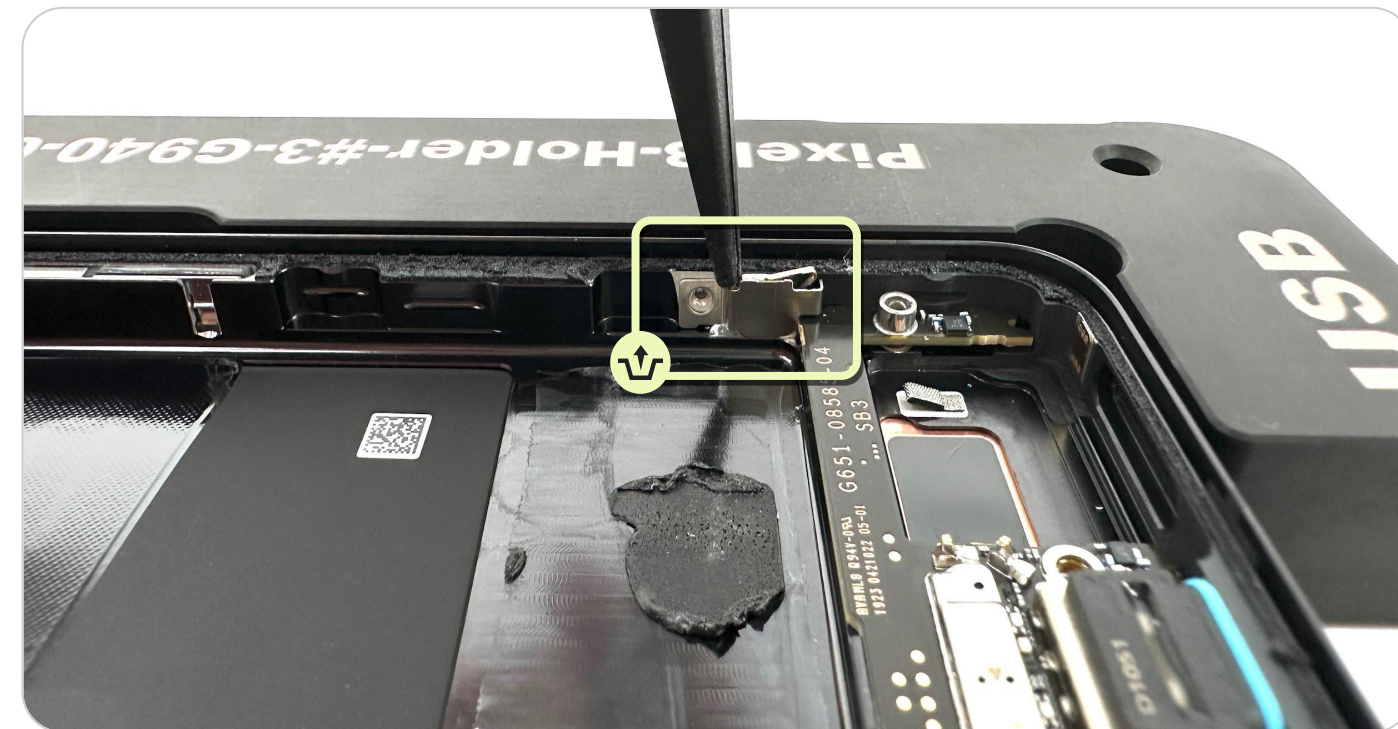
Remove SIM Tray

Remove the **SIM Tray** with the **Universal fish line tool**.

Part: Multiple Part Numbers (SIM Tray)

⚠️ **Use Caution**

Be careful to avoid scratching the Enclosure.

Display | Graphite Sheet | Mid-frame | Bottom Speaker | Front Camera | Rear Camera | mmWave Module | Battery | **Logic Board** | Top Speaker | Mic 1 Bracket | Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 97
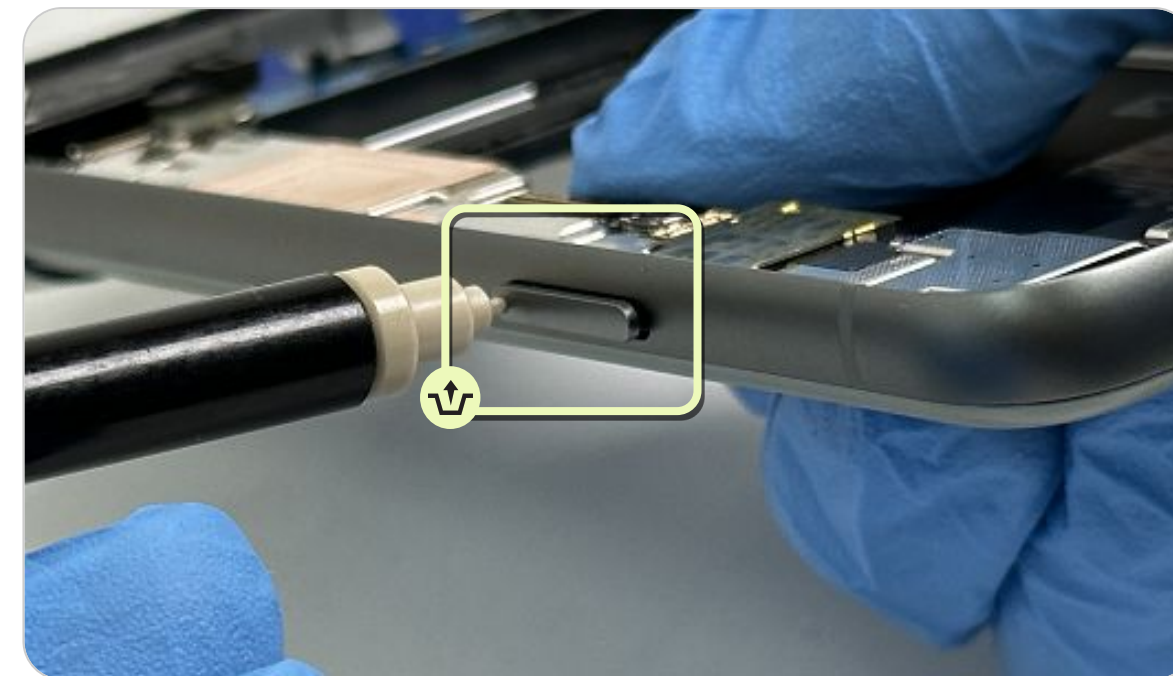
Remove screws

- Place the **Pixel 8-Screw Cover** on the **Pixel 8-Holder**.

- Remove **2 Logic Board Screws** with a **Adjustable torque screwdriver** with **Screwdriver Hex Shank Torx Plus Bit no.3**, and remove the **Pixel 8-Screw Cover**.

> **Part: G250-06670-00 *2 (Screw)**

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

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   **Logic Board**   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 98

Disconnect Logic Board

Loosen the **BIF Flex** with the **Universal fish line tool**.

💡 **Note**

Use the Universal fish line tool to avoid damaging the components.

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   **Logic Board**   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 99
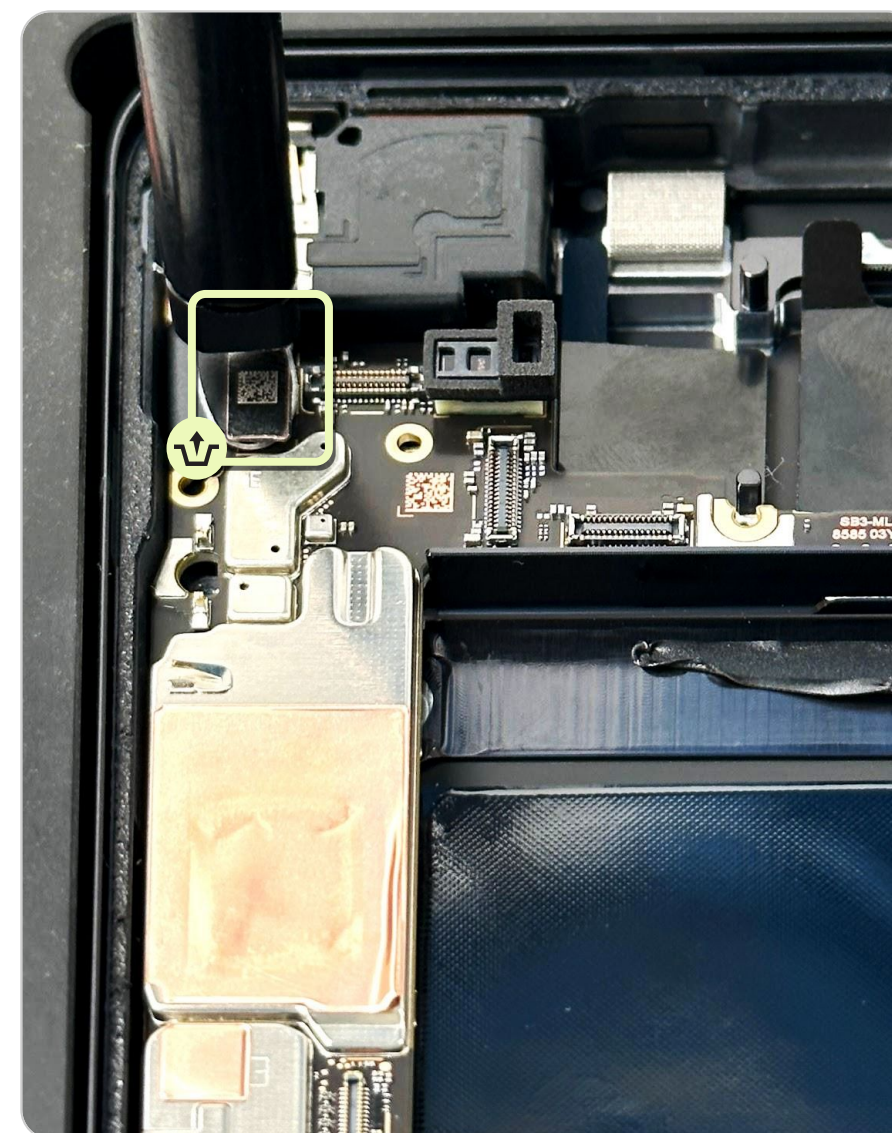
Finished! Need assembly instructions? ➔

Remove Logic Board

- Pry the **Logic Board** upward with an **Universal Disassembly ESD stick**.

- Holding the indicated part, lift the top side first to remove the **Logic Board**.

Part: **Multiple Part Numbers** (Logic Board)

⚠️ **Use Caution**

Be careful to avoid damaging components on the Logic Board.

💡 **Note**

Don't wear gloves when handling the Logic Board.

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   **Logic Board**   Top Speaker   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 100

Disassembly
instructions
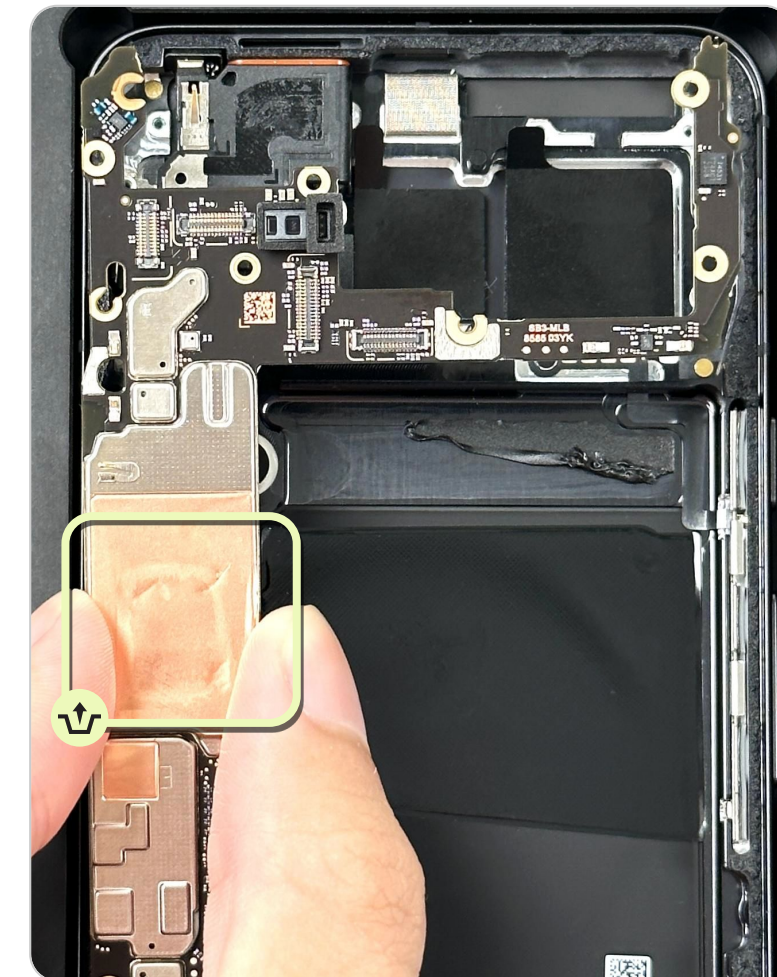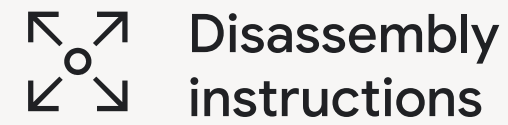
Top Speaker

The Top Speaker is used both as an ear speaker for making calls and a second loudspeaker for music and video playback.

⚠️ Use caution!

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

✓ Prerequisites

Remove the following components first:

- **Display**
- **Graphite Sheet**
- **Mid-frame**
- **Bottom Speaker**
- **mmWave Module**
- **Battery**
- **Logic Board**

🛠️ Tools

Pixel 8-Holder

Pixel 8-Screw Cover

Adjustable torque screwdriver

Screwdriver Hex Shank Torx Plus Bit no.3

Universal Disassembly ESD stick

🛠 Parts

Top Speaker

The parts listed are for the Top Speaker disassembly.

Reuse indications   🟢 Reusable without Cleaning   🔵 Reusable after Cleaning   ⚫ Not Reusable after disassembly
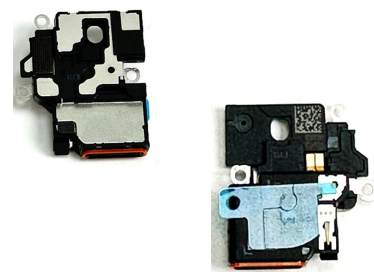
Top Speaker 🔵	Screw ⚫	Top SPK PSA ⚫
G863-00509-12	G250-05802-00	G806-11702-00

Remove screw

- Place the **Pixel 8-Screw Cover** on the **Pixel 8-Holder**.

- Remove **Top Speaker Screw** with a **Adjustable torque screwdriver** with **Screwdriver Hex Shank Torx Plus Bit no.3**, and remove the **Pixel 8-Screw Cover**.

Part: **G250-05802-00** (Screw)

Note

Don't reuse the part.

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   **Top Speaker**   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 103
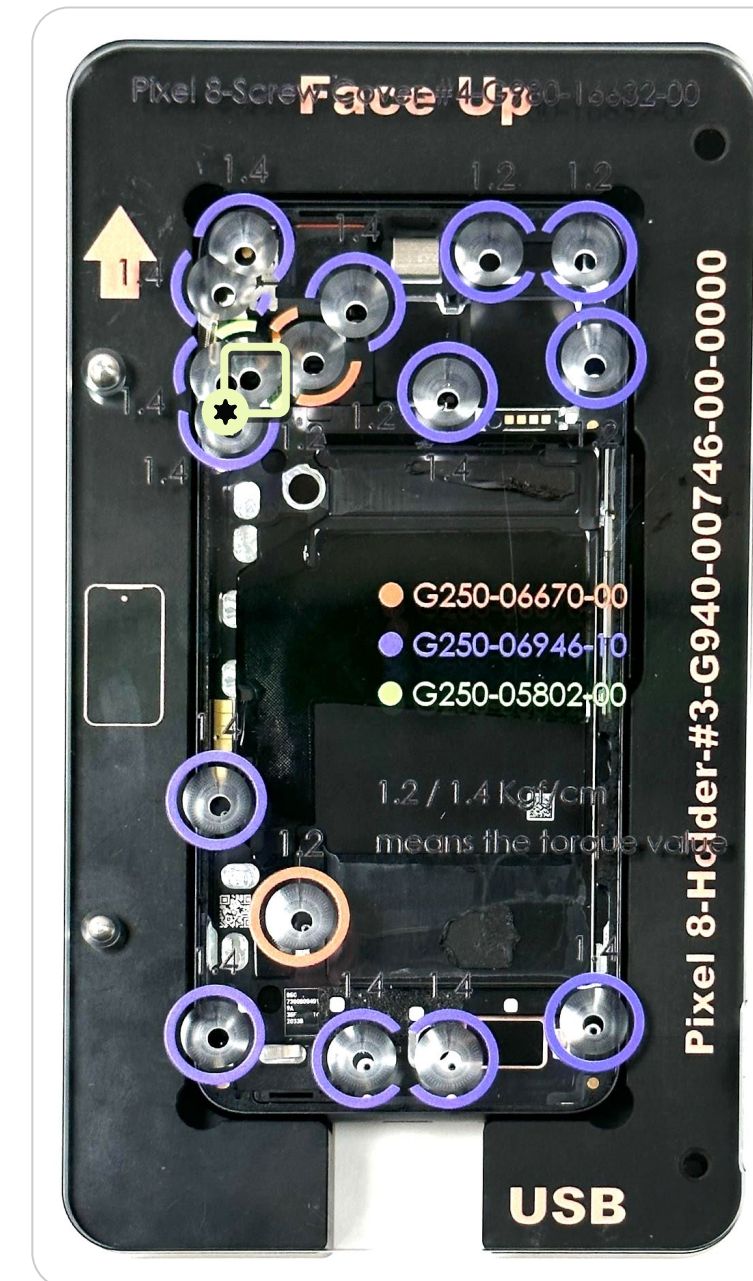
Finished! Need assembly instructions? ➜

Remove Top Speaker

Remove the **Top Speaker** with the **Universal Disassembly ESD stick**.

Part: **G863-00509-12** (Top Speaker)

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   **Top Speaker**   Mic 1 Bracket   Enclosure

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 104

Disassembly
instructions

Mic 1 Bracket

The Mic 1 is adhered to the Enclosure. This component is not re-used. If it is removed, replace with a new part.

⚠ Use caution!

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

⊘ Prerequisites

Remove the following components first:

- **Display**
- **Graphite Sheet**
- **Mid-frame**
- **Bottom Speaker**
- **mmWave Module**
- **Battery**
- **Logic Board**

⚒ Tools

Pixel 8-Holder

ESD spudger

Dust-free Cotton swabs

Sankol lubricant CFD 409Z_V2

⚒ Parts

Mic 1 Bracket

The parts listed are for the Mic 1 Bracket disassembly.

Reuse indications   🟢 Reusable without Cleaning   🔵 Reusable after Cleaning   ⚫ Not Reusable after disassembly

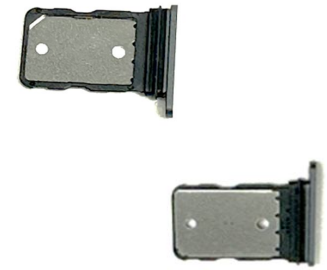### Mic 1 Bracket
G730-07405-02

Finished! Need assembly instructions? ➜

Remove Mic 1 Bracket

Remove the **Mic 1 Bracket** with the **ESD spudger**.

Part: G730-07405-02 (Mic 1 Bracket)

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

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   **Mic 1 Bracket**   Enclosure

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 107
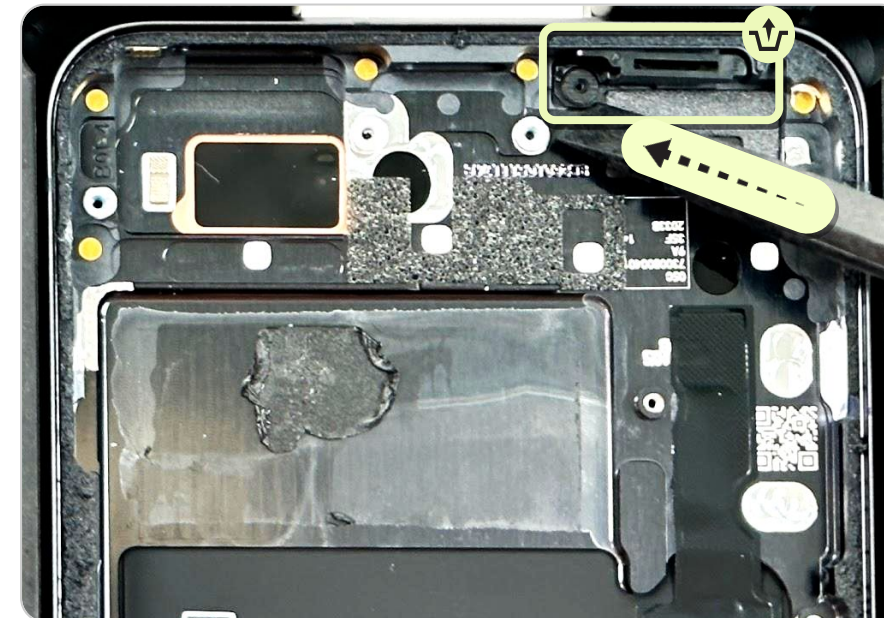
Enclosure

If re-using the Enclosure, ensure that any thermal paste or adhesive residue is completely removed.

⚠️ **Use caution!**

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

✓ **Prerequisites**

Remove the following components first:

- **Display**
- **Graphite Sheet**
- **Mid-frame**
- **Bottom Speaker**
- **mmWave Module**
- **Battery**
- **Logic Board**
- **Top Speaker**
- **Mic 1 Bracket**

🛠️ **Tools**

Pixel 8-Holder

Universal fish line tool

ESD spudger

IPA and cloth

Deglue Machine

🛠 Parts

Enclosure

The parts listed are for the Enclosure disassembly.

Reuse indications   🟢 Reusable without Cleaning   🔵 Reusable after Cleaning   ⚫ Not Reusable after disassembly

Enclosure
Multiple Part Numbers 🔵

BIF Flex
G652-01925-02 🟢
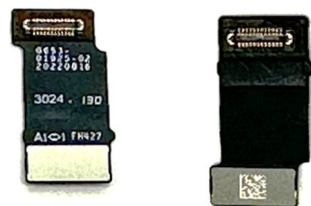
Enclosure difference
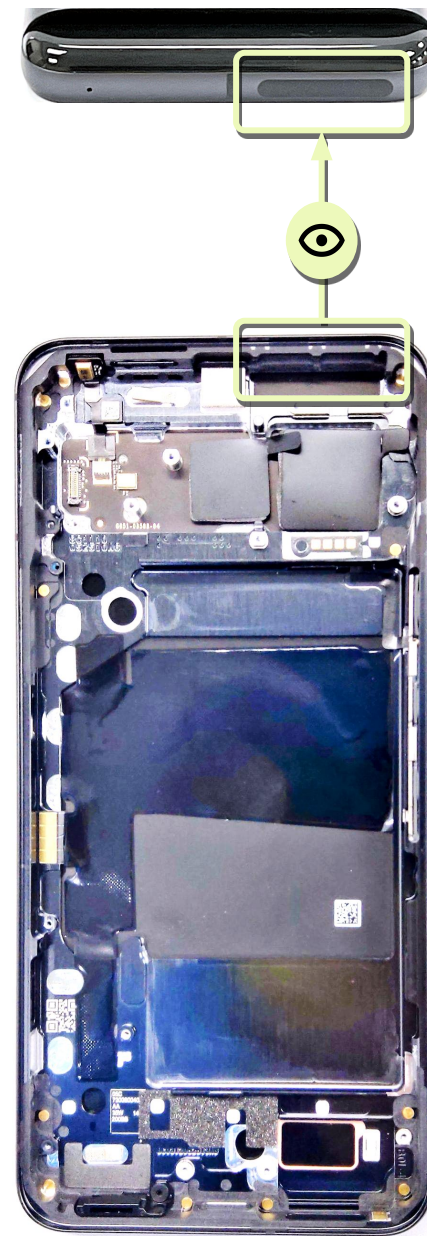
mmWave
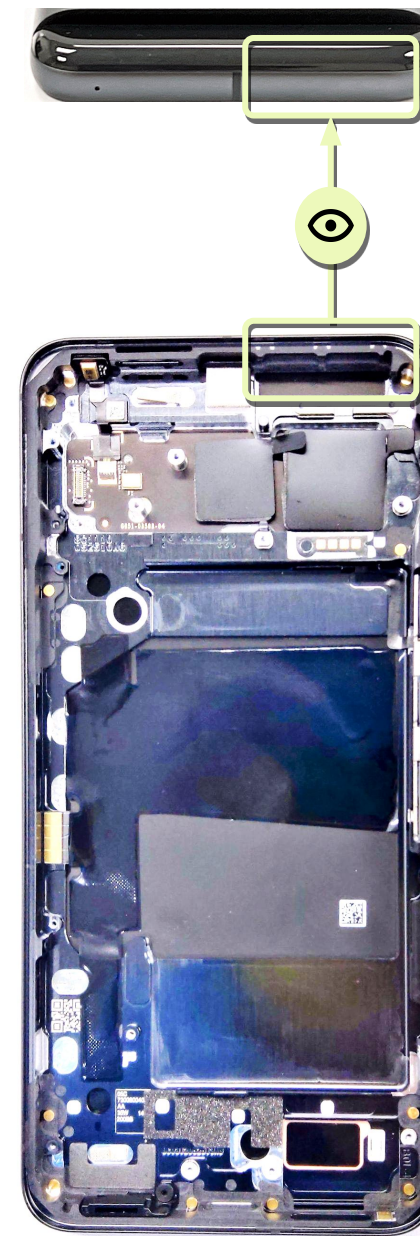
Sub6

Finished! Need assembly instructions? ➜

Remove BIF Flex

- Loosen the **BIF Flex** from the **Flam Board** with the **Universal fish line tool**.

- Remove the **BIF Flex**.

Part: G652-01925-02 (BIF Flex)

💡 **Note**

Use the **Universal fish line tool** to avoid damaging the components.

Display   Graphite Sheet   Mid-frame   Bottom Speaker   Front Camera   Rear Camera   mmWave Module   Battery   Logic Board   Top Speaker   Mic 1 Bracket   **Enclosure**

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 111
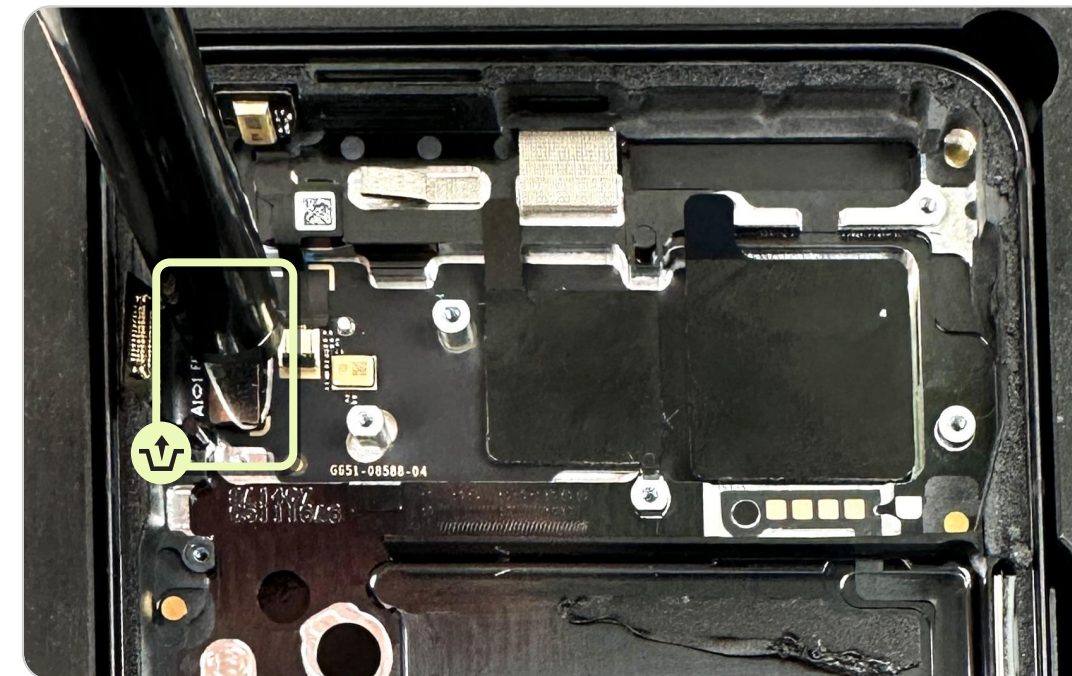
Pixel 8 Repair Manual

Assembly

Enclosure	Battery	Bottom Speaker
Mic 1 Bracket	mmWave Module	Mid-frame
Top Speaker	Rear Camera	Graphite Sheet
Logic Board	Front Camera	Display

Assembly
instructions

Enclosure

Re-using Enclosure

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

- It is recommended to carefully and slowly peel off the adhesive in one piece by hand. Use an **ESD spudger** or **Deglue Machine** to clean the residual adhesive off the **Enclosure**.

- Use a **Dust Free Cloth** with **IPA** to clean the surface where needed.

> ### Note
>
> Place the device on a heat plate at 122°F /50 °C for 2 mins for easier removal.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 114
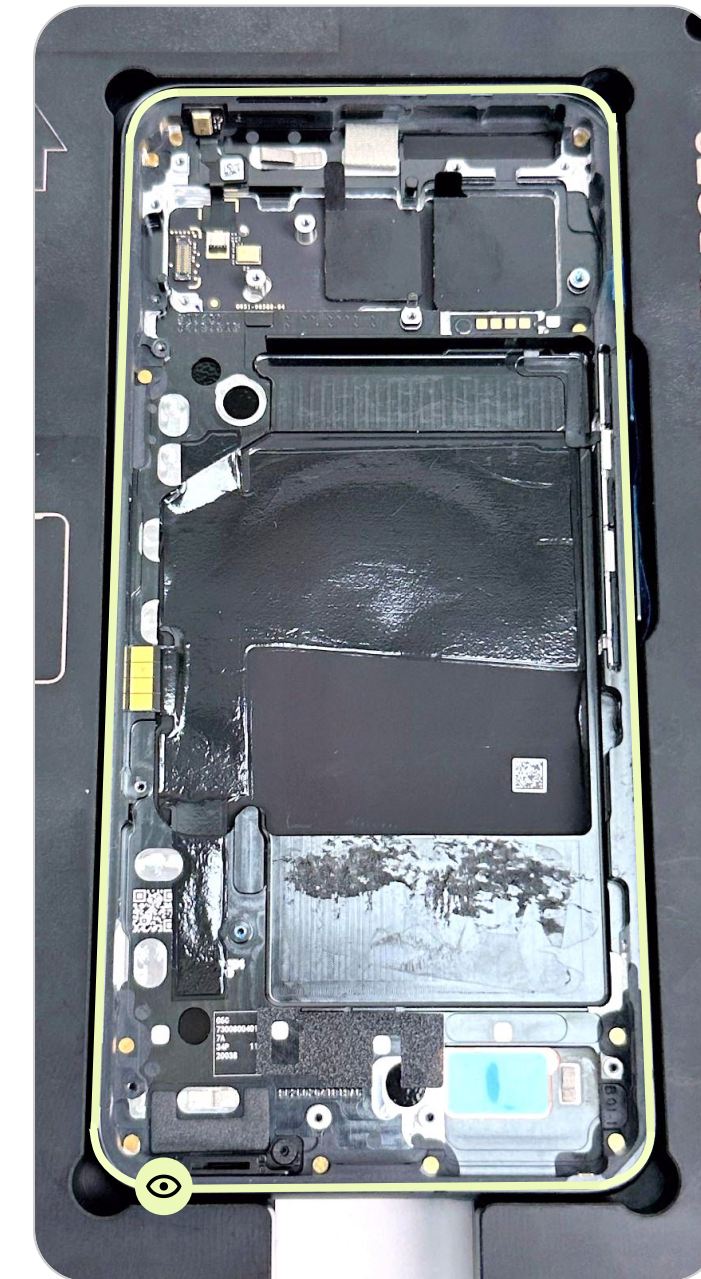
Re-using Enclosure-continued

- Remove any residue in the **Battery** area with an **ESD spudger** or **Deglue Machine**.

- Apply **IPA** with **Dust Free Cloth** afterward.

> 💡 **Note**
>
> Place the device on a heat plate at 122°F /50 °C for 2 mins for easier removal.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 115

Attach BIF Flex

Attach the **BIF Flex connector** to the **Flam Board**.

Part: G652-01925-02 (BIF Flex)

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 116
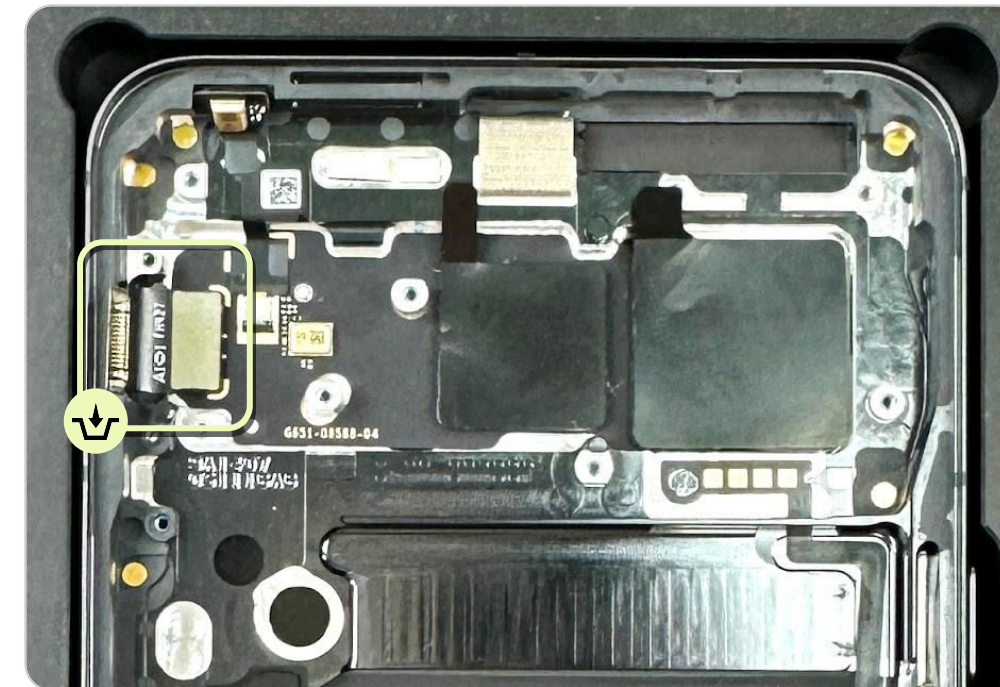
Check Pad

- Inspect the **Wireless Charger & NFC Pad.** Make sure it is not covered or obstructed by the **Graphite Sheet** or other components,

- Inspect the flex tail. Make sure it aligns with the **Enclosure** edge.

NG

OK

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 117

Assembly
instructions
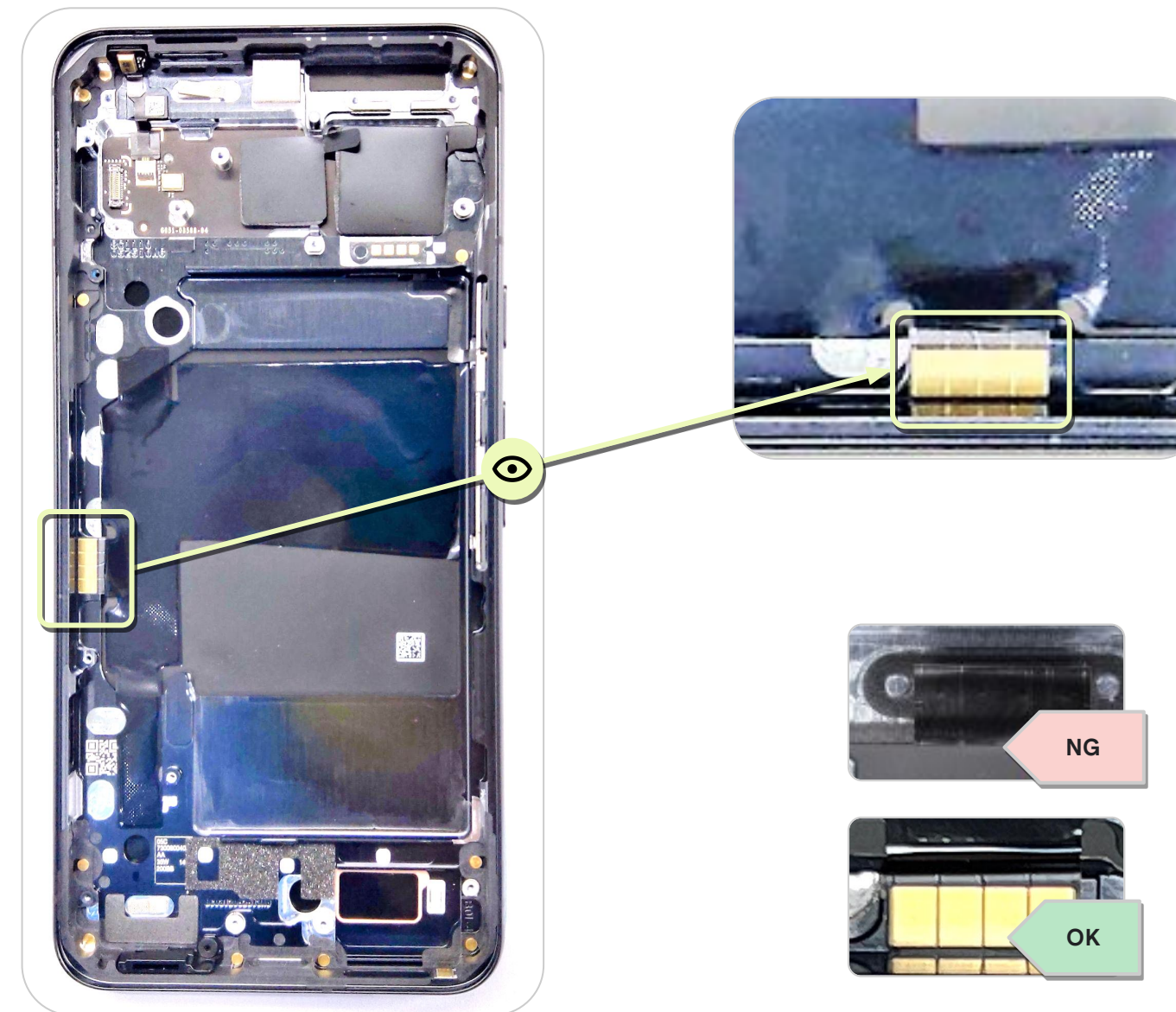
Mic 1 Bracket

Lubricate area

Apply **Sankol lubricant CFD 409Z_V2** with a **Dust-free cotton swab** around the mic grill and **Bottom Speaker**.

> 💡 **Note**
>
> Angle or bend the Dust-free cotton swab to go inside the holes for thorough application.

Enclosure   **Mic 1 Bracket**   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 119
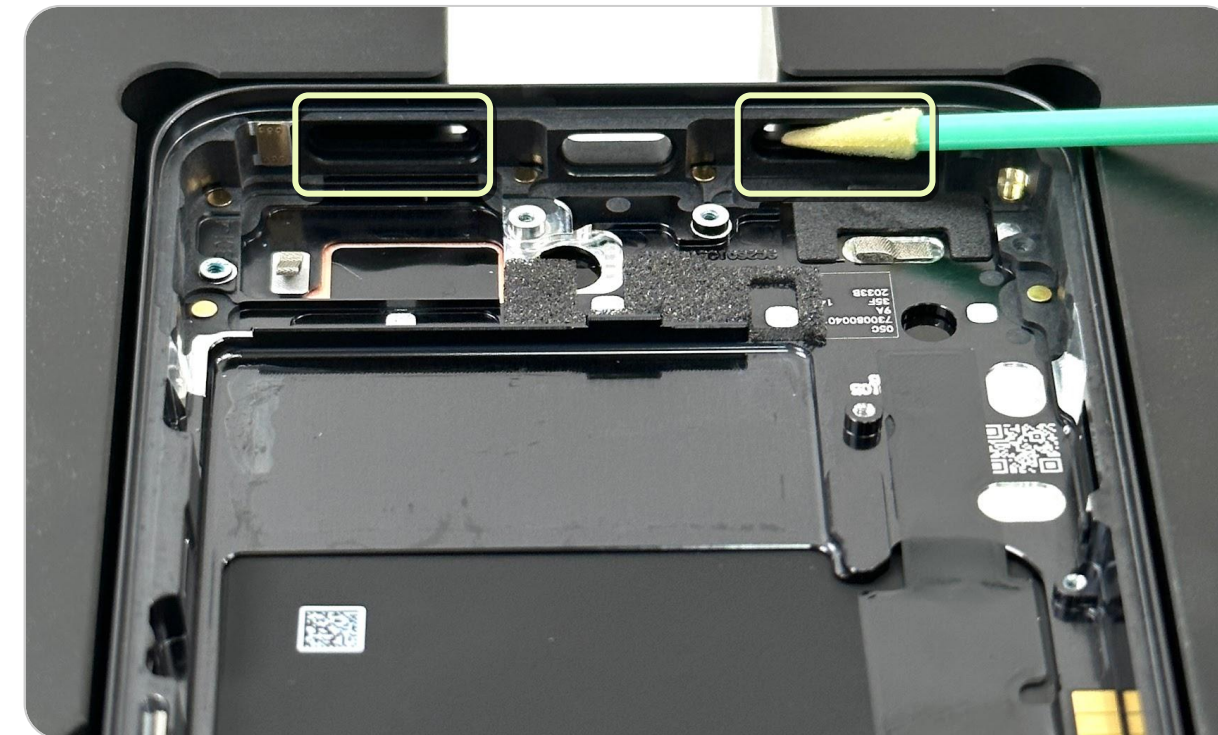
Remove Release Liner

Remove the designated **Mic 1 Bracket** release liner with **ESD Tweezers**.

Part: G730-07405-02 (Mic 1 Bracket)

Enclosure   **Mic 1 Bracket**   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 120
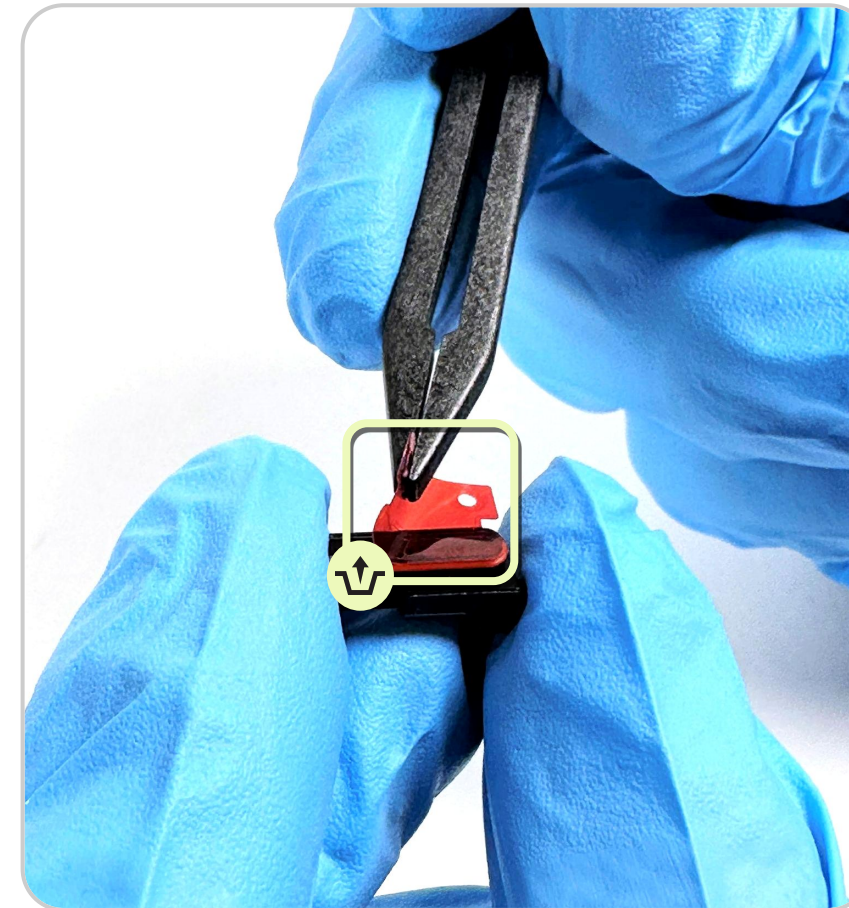
Insert new Mic 1 Bracket

- Insert the new **Mic 1 Bracket**. Ensure it is snapped past the **Enclosure** rim.

- Press for **3 seconds** with an **Universal Disassembly ESD stick**.

⚠️ **Use Caution**

Avoid touching the Mic 1 membrane during assembly.

Enclosure   **Mic 1 Bracket**   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 121

Remove Release Liner

Use **ESD Tweezers** to remove the second release liner on the **Mic 1 Bracket**.

Use Caution

Avoid touching the Mic 1 membrane during assembly.

Enclosure   **Mic 1 Bracket**   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 122
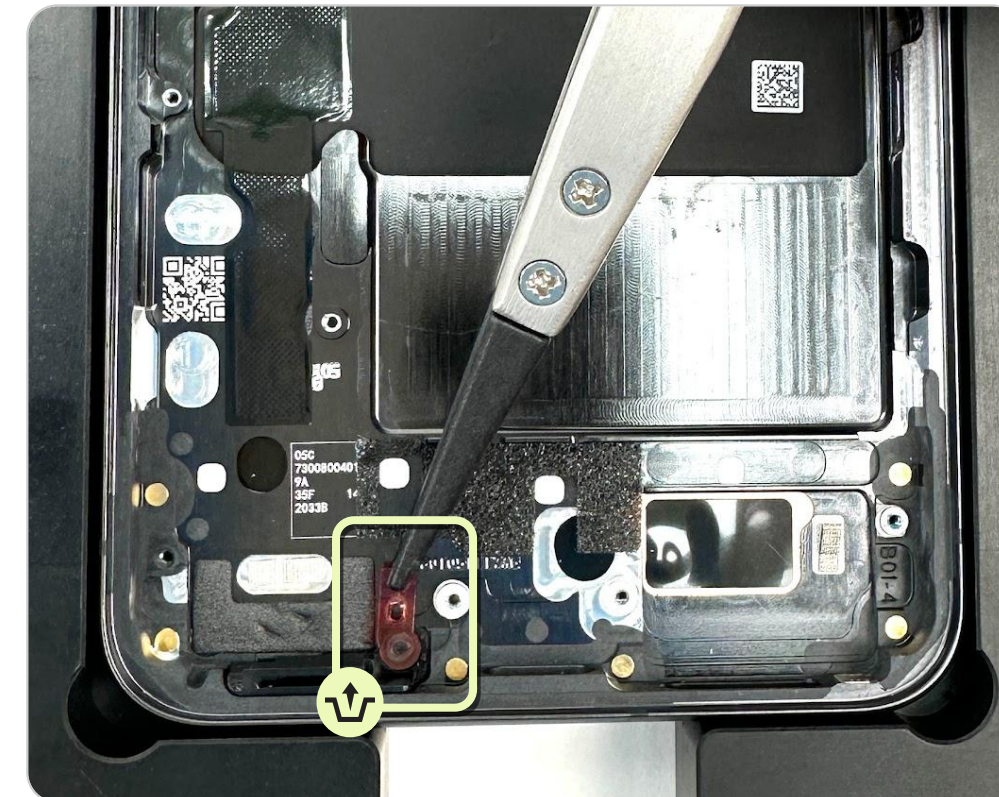
Assembly
instructions

Top Speaker

Re-using Top Speaker

- Use a **ESD spudger** to clean the residual adhesive off the **Top Speaker** (Fig 2).

- Use a **Dust Free Cloth** with **IPA** to clean the surface as needed.

> **Part: G863-00509-12** (Top Speaker)

The highlight is where the residual adhesive may remain.

Fig 1

Fig 2

Enclosure   Mic 1 Bracket   **Top Speaker**   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 124
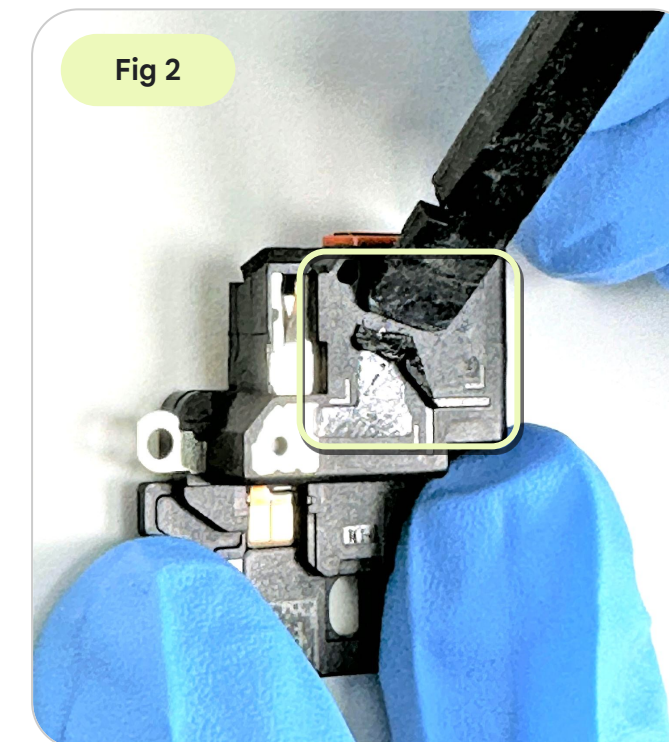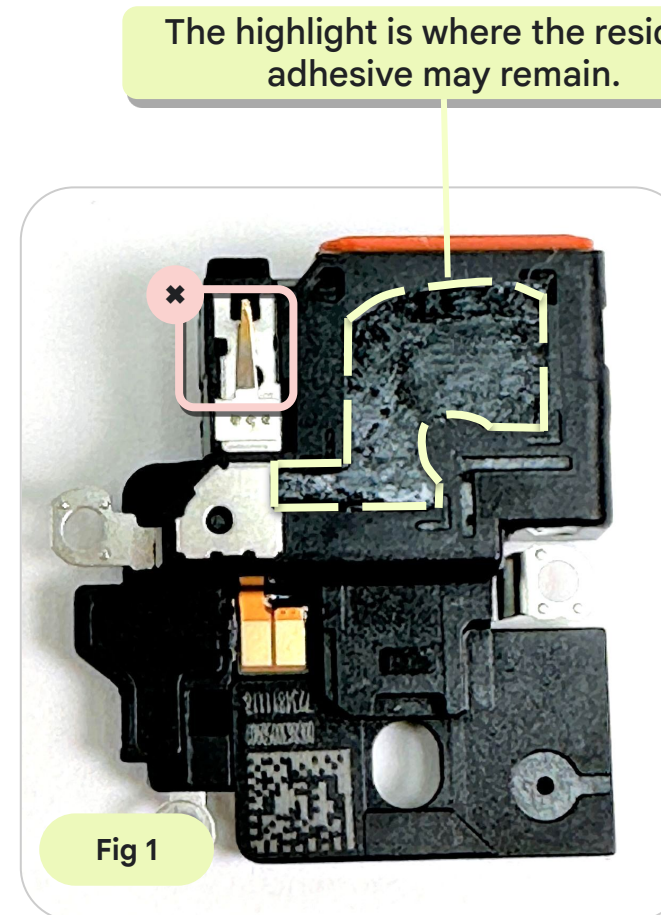
Adhere Top Speaker PSA

Attach **Top Speaker PSA** to the **Top Speaker** by the line with an **ESD Tweezers**.

Parts: G863-00509-12 (Top Speaker)

Parts: G806-11702-00 (Top SPK PSA)

Enclosure   Mic 1 Bracket   **Top Speaker**   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 125
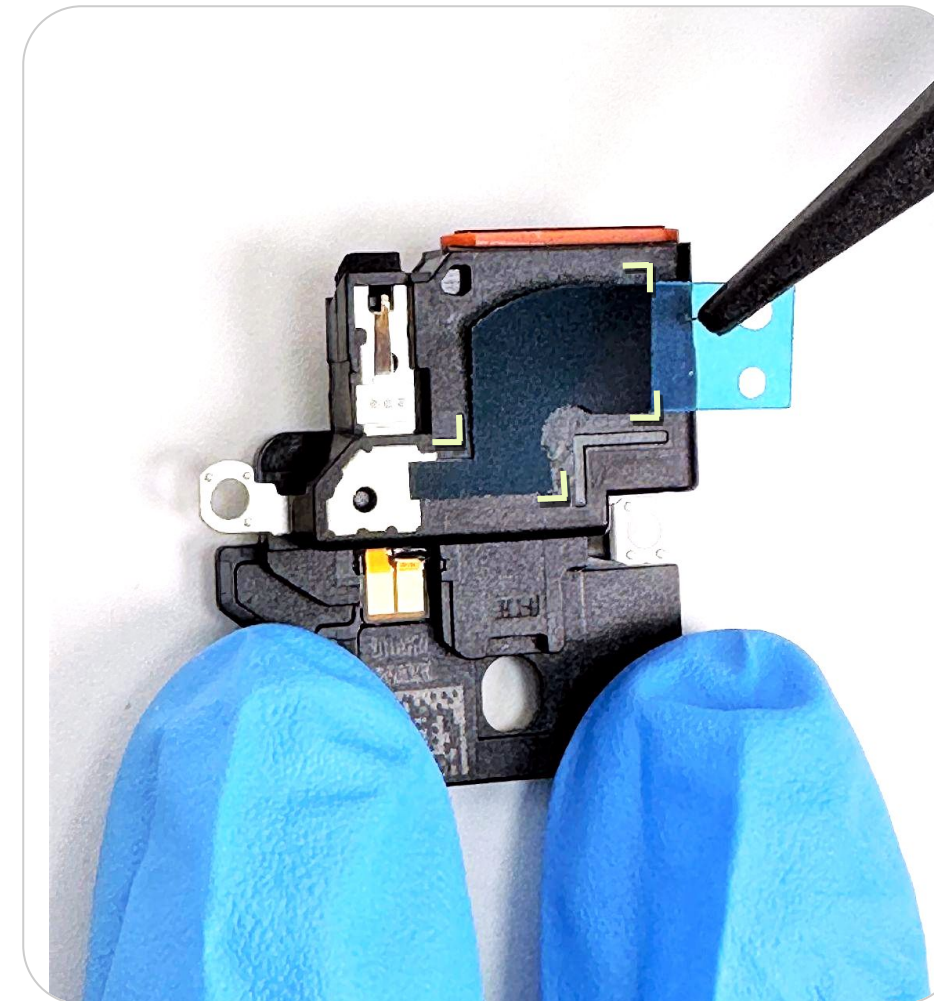
Insert Top Speaker

- Check if the spring is deformed (Fig 1).

- Insert **Top Speaker** into the slot on the **Enclosure** at an angle of approximately 15°, making sure it fits properly. Hand press it into place (Fig 2).

Parts: G863-00509-12 (Top Speaker)

Note

Make sure the speaker sits under the enclosure rim.

Make sure the BIF Flex does not interfere with assembly

Fig 1

Fig 2

Enclosure   Mic 1 Bracket   **Top Speaker**   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 126
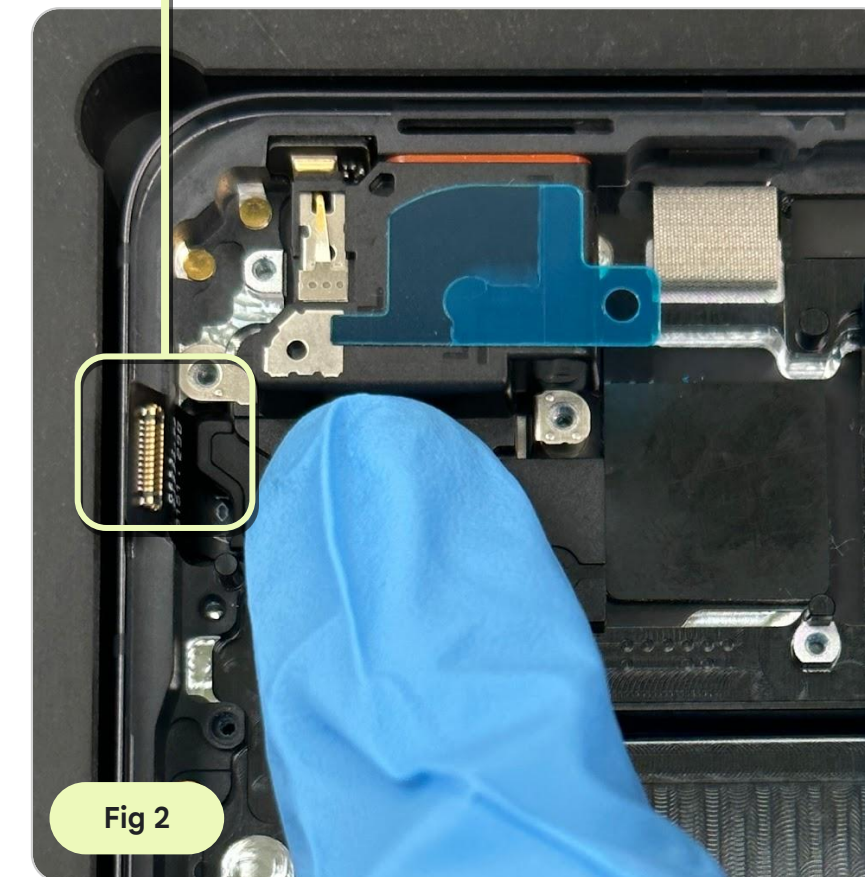
Check Top Speaker

Check the foam status after assembling the **Top Speaker**.

The foam is lost

OK

NG

Enclosure   Mic 1 Bracket   **Top Speaker**   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 127
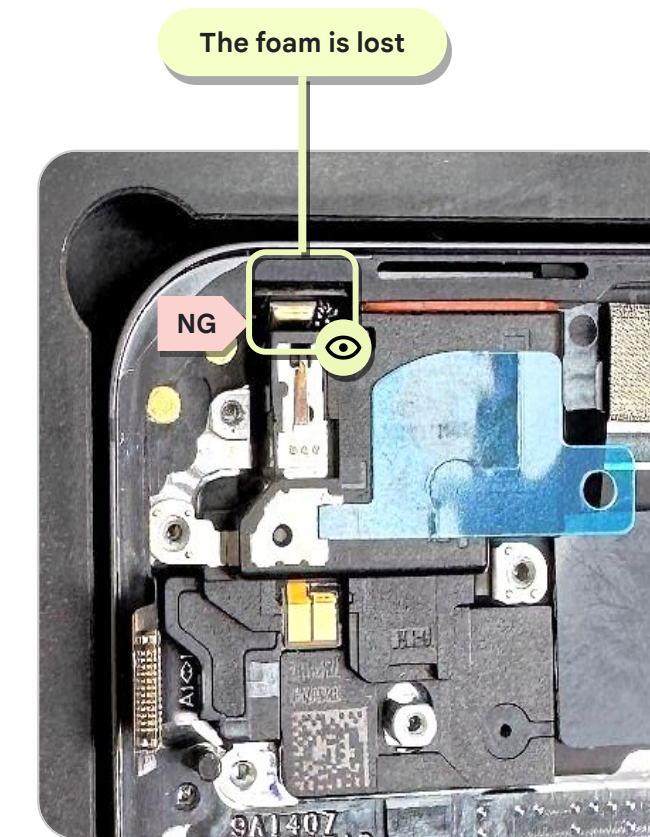
Tighten screw

- Place the **Pixel 8-Screw Cover** on the **Pixel 8-Holder**.

- Tighten the **Top Speaker Screw** with a **Adjustable torque screwdriver** with **Screwdriver Hex Shank Torx Plus Bit no.3**, then remove the **Pixel 8-Screw Cover**.

Part: G250-05802-00 (Screw)

Note

Torque force: 1.2 ± 0.03 kgf-cm

Enclosure   Mic 1 Bracket   **Top Speaker**   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 128

Assembly
instructions

Logic Board

Logic Board check

General Rules

Top view

NG   OK

Top view

NG   OK

Side view

NG   OK

⚠️ ### Use Caution

Before assembling the MLB, check for spring deformation.

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

Damaged springs may cause incomplete grounding. The part may need to be replaced to work as intended.

Enclosure   Mic 1 Bracket   Top Speaker   **Logic Board**   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 130
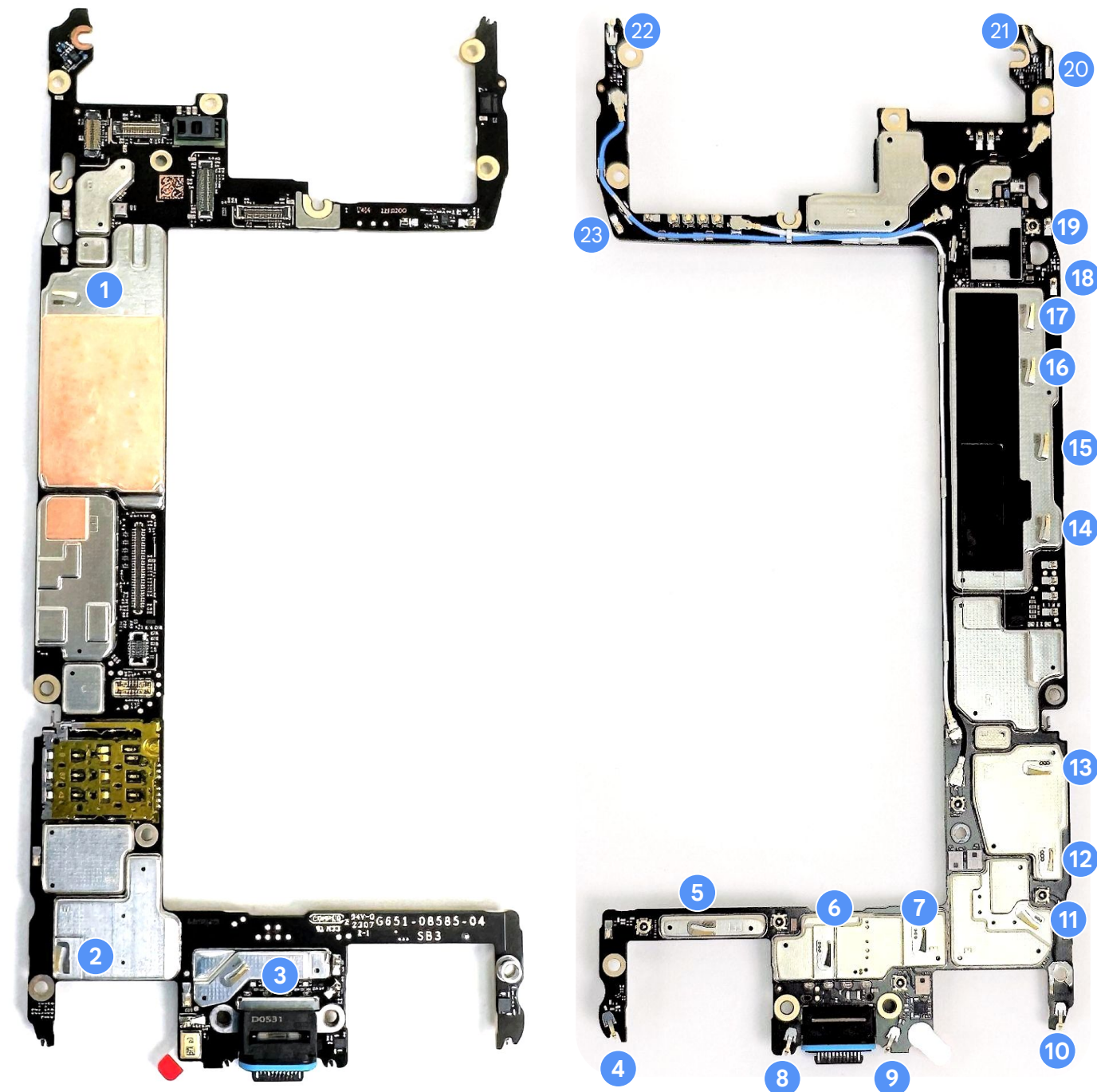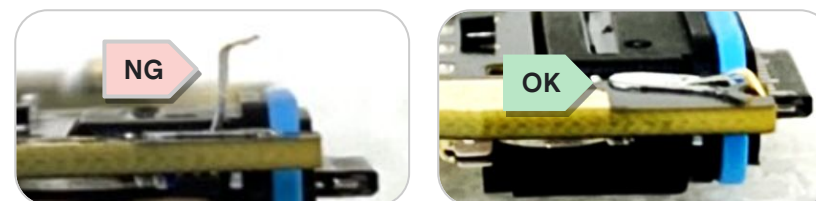
Re-using Logic Board

- Clean any thermal pad residue from the **Logic Board** with an **ESD spudger.**

- If there is any residue, use a **Dust Free Cloth** with **IPA** to gently clean the surface.

Part: Multiple Part Numbers (Logic Board)

Enclosure   Mic 1 Bracket   Top Speaker   **Logic Board**   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 131
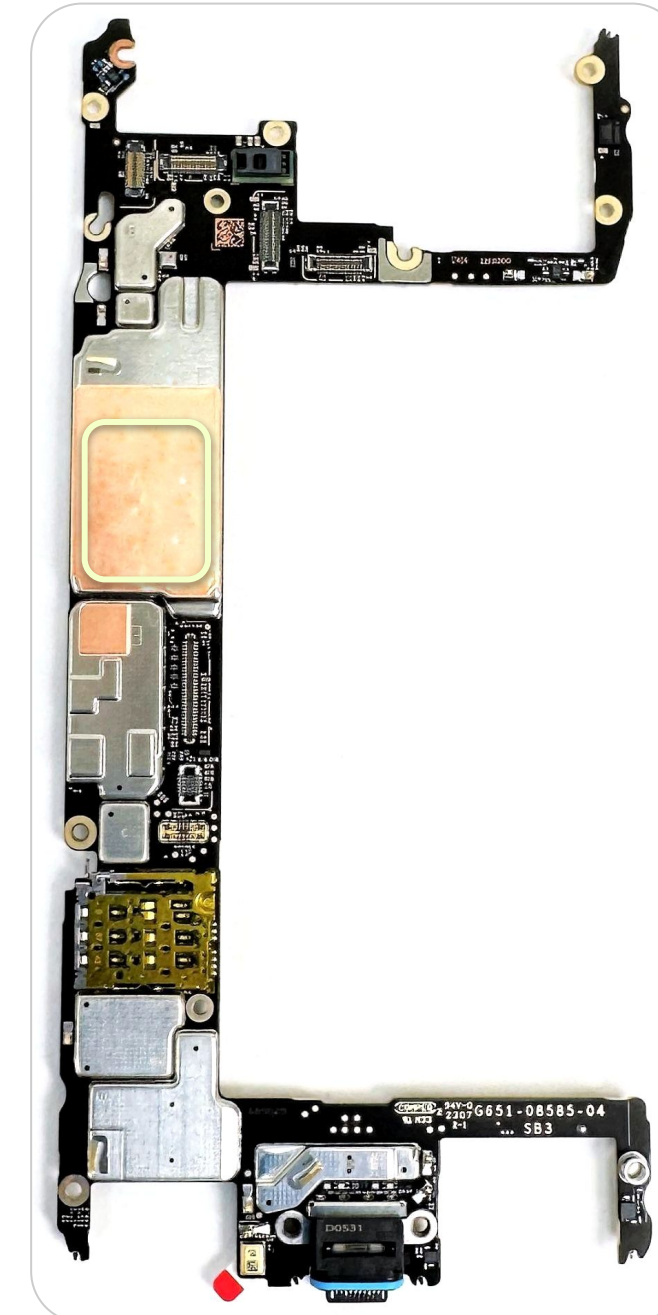
Remove protective liner

If there is a Mic protective liner attached to the **Logic Board**, remove it using **ESD Tweezers**.

> ◯ **Note**
>
> Don't reuse the protective liner.

Enclosure   Mic 1 Bracket   Top Speaker   **Logic Board**   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 132
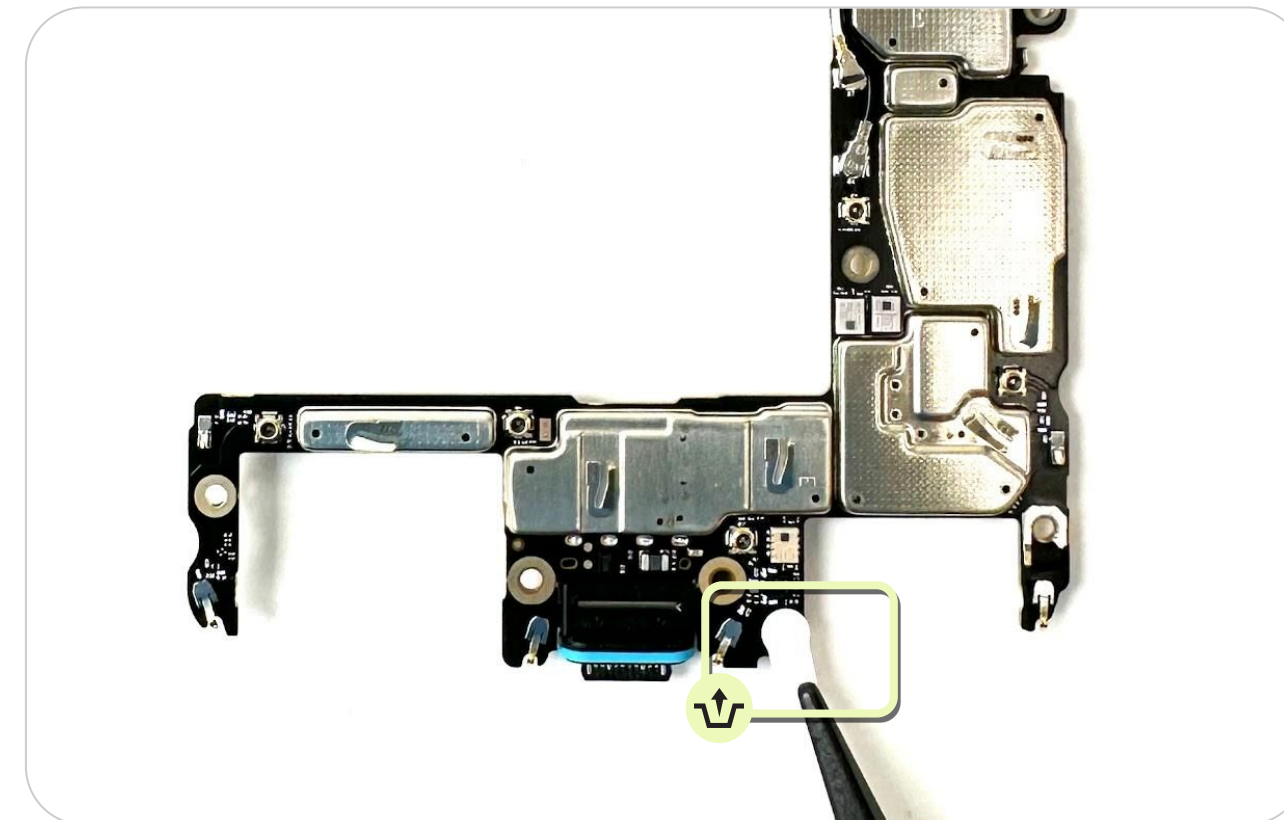
Assemble Logic Board

- Lift the **BIF Flex** in the **Enclosure** by hand to avoid trapping it under the **Logic Board**.

- First, push the **Logic Board** downwards towards the USB port of the **Enclosure**.

- Then, push the **Logic Board** straight down flush against the retaining wall.

⚠️ **Use Caution**

Be careful to avoid damaging components on the Logic Board.

💡 **Note**

Don't wear gloves when handling the Logic Board.

Enclosure   Mic 1 Bracket   Top Speaker   **Logic Board**   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 133

Check seating

- After pressing the **Logic Board** down, it should sit against the retaining wall (Fig 1 & 2).

- Ensure **4 ANT Contacts** are visible through slots on the **Logic Board** (Fig 3).

Fig 1

Fig 2

Fig 3

Enclosure   Mic 1 Bracket   Top Speaker   **Logic Board**   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 134
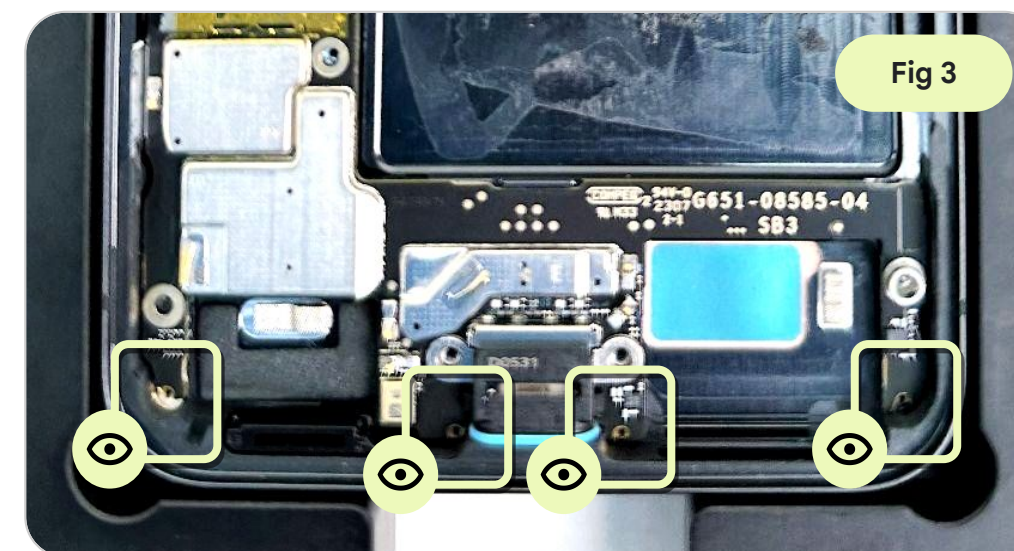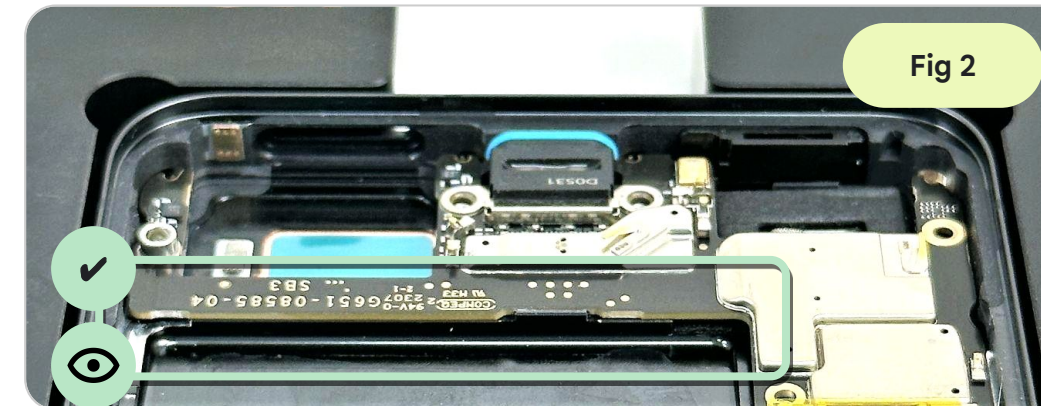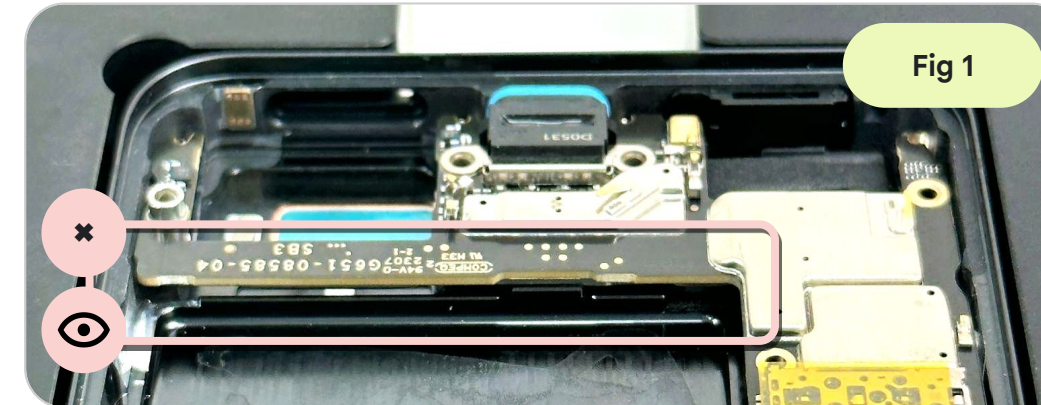
Prepare SIM Tray

Apply **Sankol lubricant CFD 409Z_V2** to the rubber on the **SIM Tray** with a **Dust-free cotton swab**.

Part: **Multiple Part Number** (SIM tray)

Insert SIM Tray

Lightly hold the **Logic Board** and insert the **SIM Tray** with your hand.

Hold SIM socket

Enclosure   Mic 1 Bracket   Top Speaker   **Logic Board**   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 136
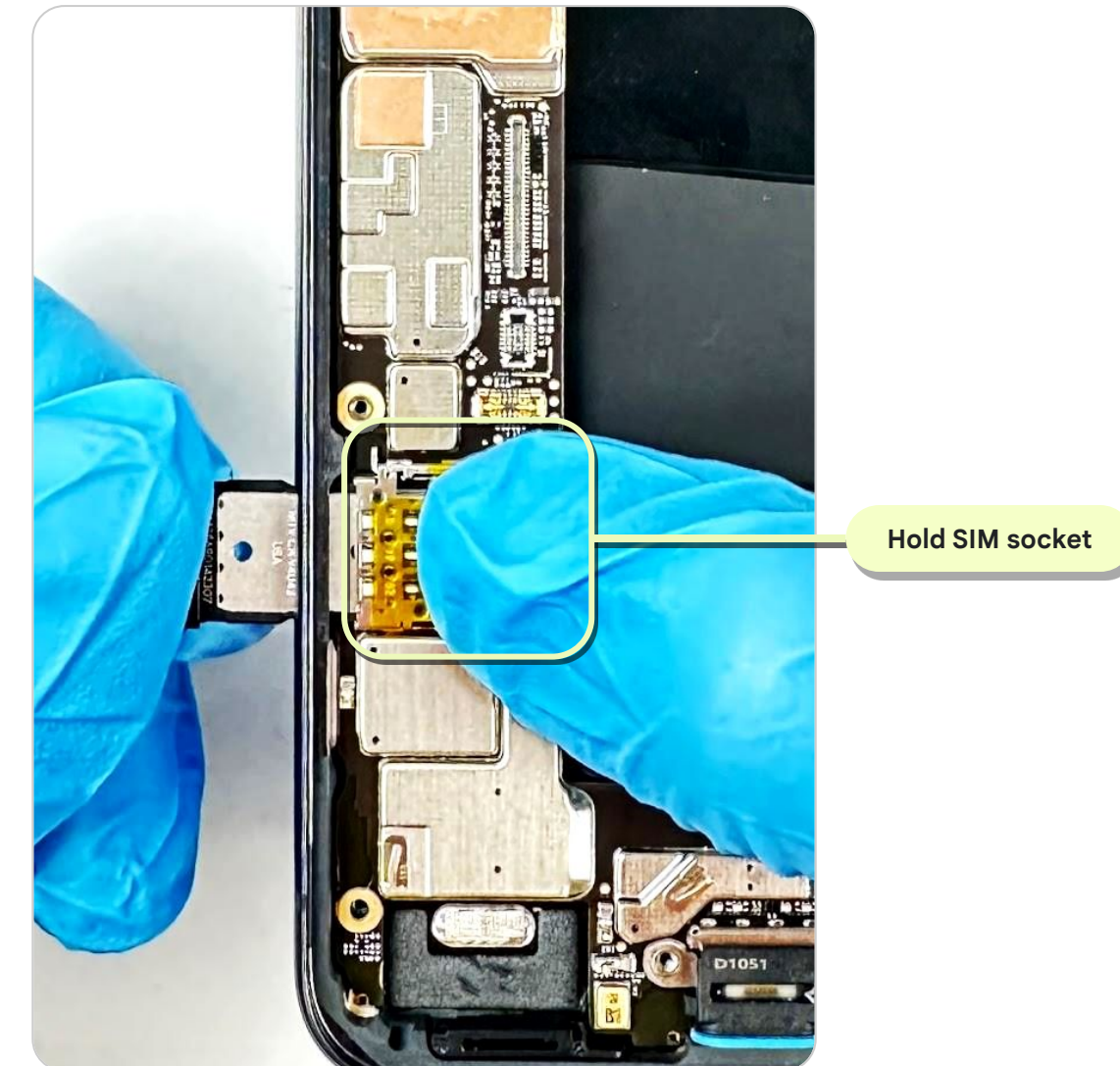
Tighten Screw

- Place the **Pixel 8-Screw Cover** on the **Pixel 8-Holder**.

- Tighten the **2 Logic Board Screws** with a **Adjustable torque screwdriver** with **Screwdriver Hex Shank Torx Plus Bit no.3**, then remove the **Pixel 8-Screw Cover**.

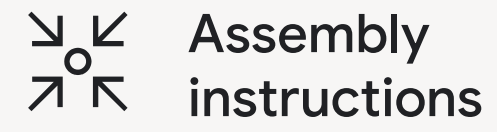Part: G250-06670-00 *2 (Screw)

> **Note**
>
> Torque force: 1.2 ± 0.03 kgf-cm

Enclosure   Mic 1 Bracket   Top Speaker   **Logic Board**   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 137

Attach BIF Flex

Attach the **BIF Flex** on the **Enclosure** to the **Logic Board**.

> 💡 **Note**
>
> Check every connector is fully attached to the Logic Board.
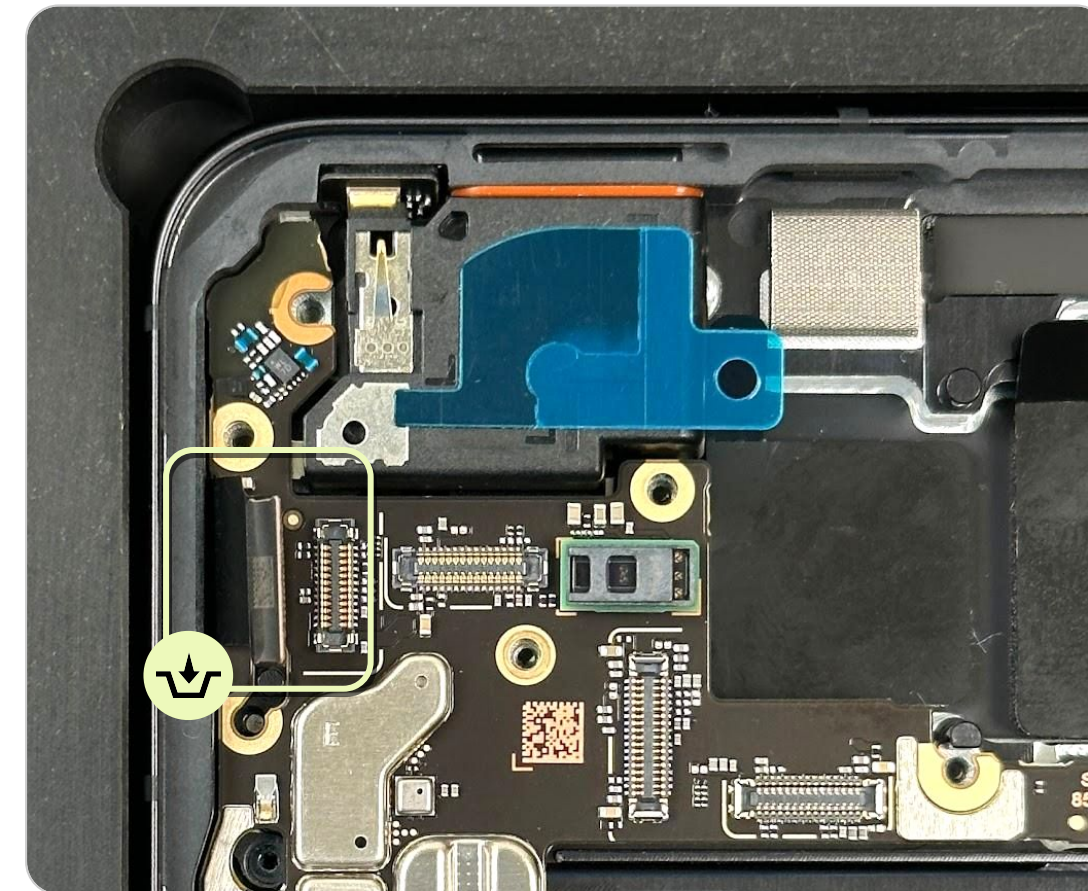
Attach ANT 7 Bracket

Attach the **ANT 7 Bracket** to the **Enclosure**.

> **Part: G853-01545-01** (ANT 7 Bracket)

> 💡 **Note**
>
> Inspect the spring status (ANT 7 Spring Location)

Enclosure   Mic 1 Bracket   Top Speaker   **Logic Board**   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 139
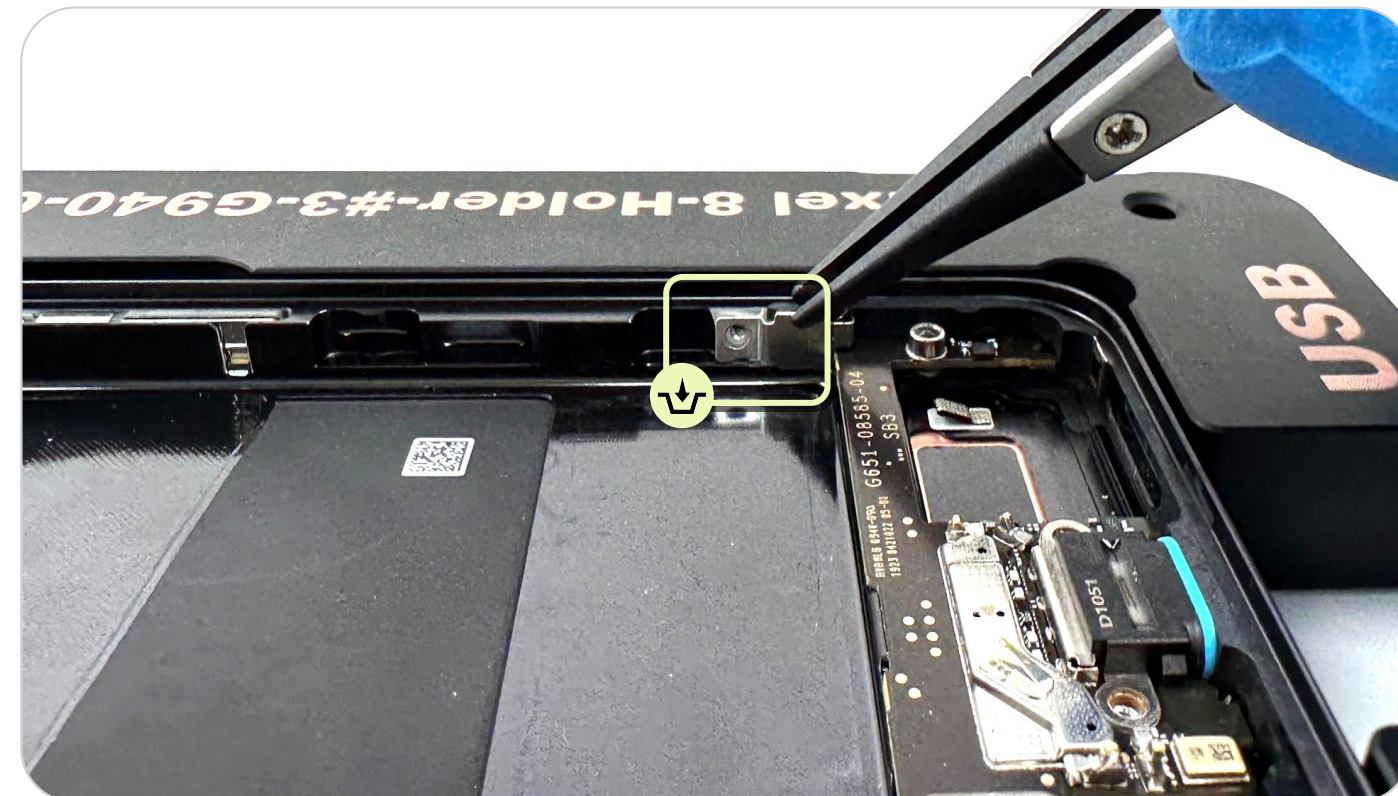
Tighten screw

Fasten the **ANT 7 Bracket Screw** with a **Adjustable torque screwdriver** with **Screwdriver Hex Shank Torx Plus Bit no.3**.

> **Part: G250-05802-00** (Screw)

> 💡 **Note**
>
> Torque force: 1.2 ± 0.03 kgf-cm

Enclosure   Mic 1 Bracket   Top Speaker   **Logic Board**   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 140
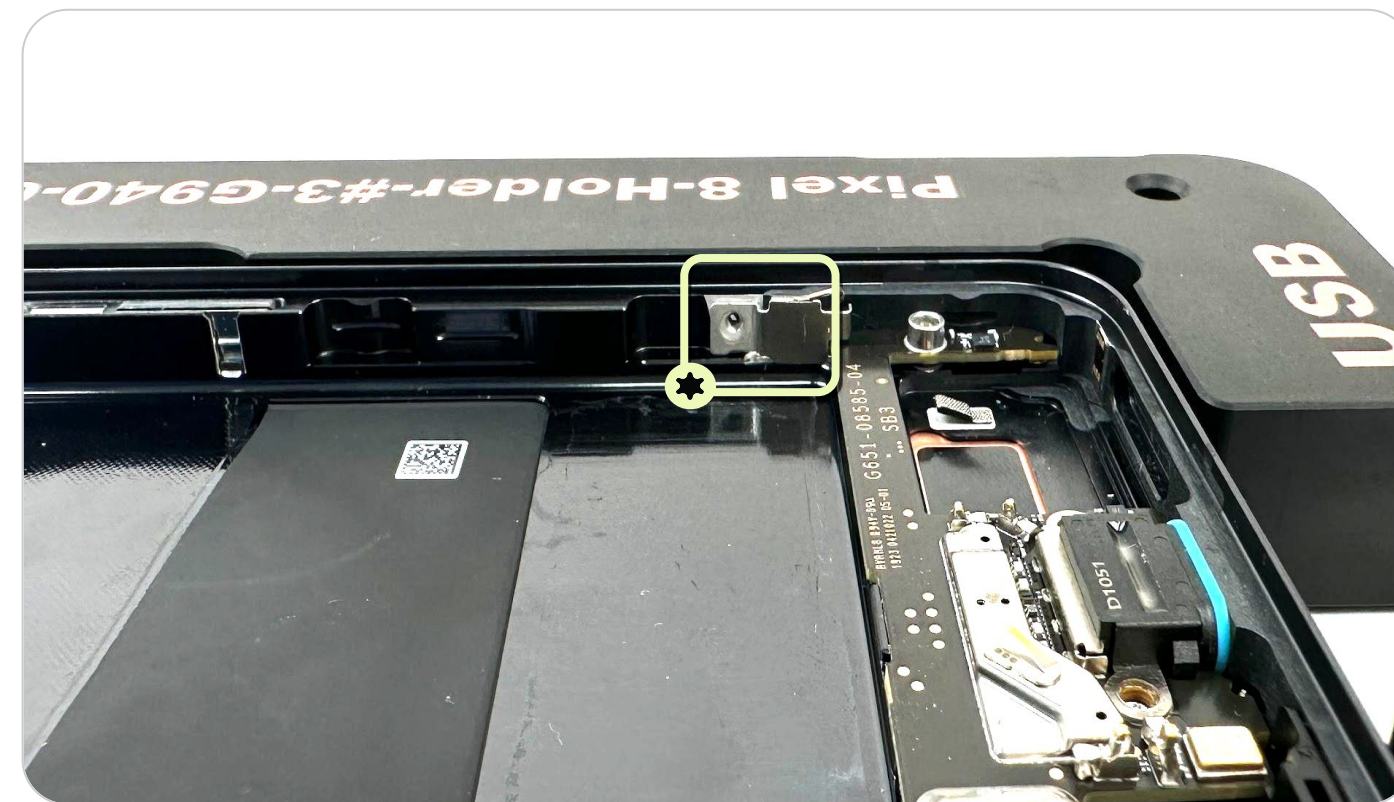
Assembly
instructions

Battery

Clean Enclosure

- Before installation, remove any debris/loose screws from the **Enclosure**.

- Apply **IPA** on the **Enclosure** with a **Dust-free cotton swab**. Use an **Ionizing air fan** to blow over.

- Apply **3M 111 Primer** (per product instructions) on the **Enclosure** with a **Dust-free cotton swab**. Use an **Ionizing air fan** to blow over.

⚠ **Use Caution**

Once Primer has been applied, complete assembly in 25 mins.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   **Battery**   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 142
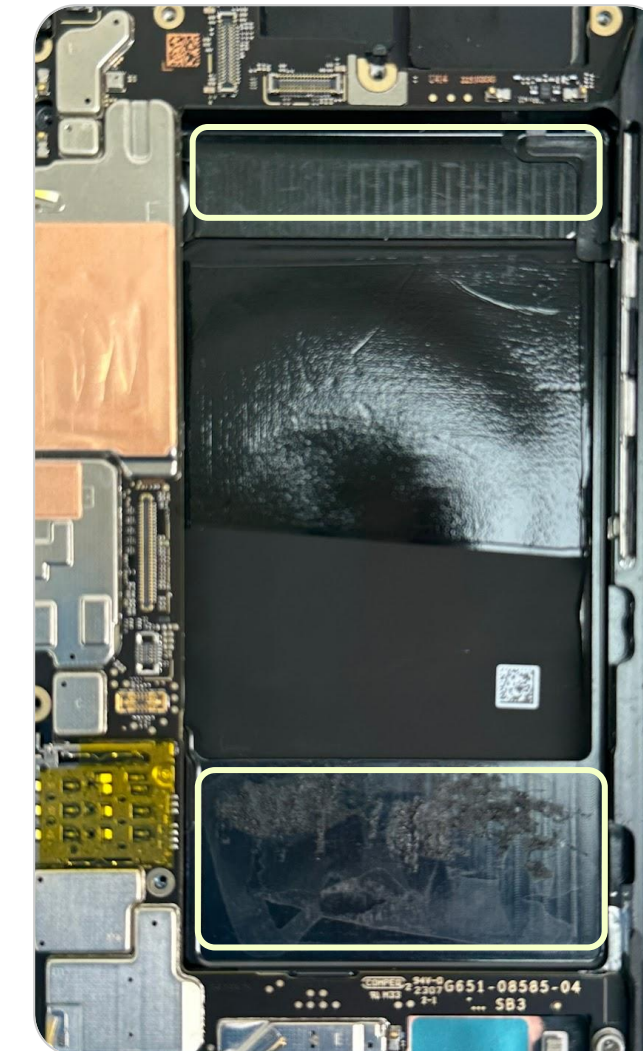
Align Battery

Place **1.1mm Feeler gauge** in the center, against the wall.

⚠️ **Use Caution**

Don't skip this step.

Battery spacing is important for product performance.

Use extra care to align correctly.

In the center of the wall

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   **Battery**   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 143
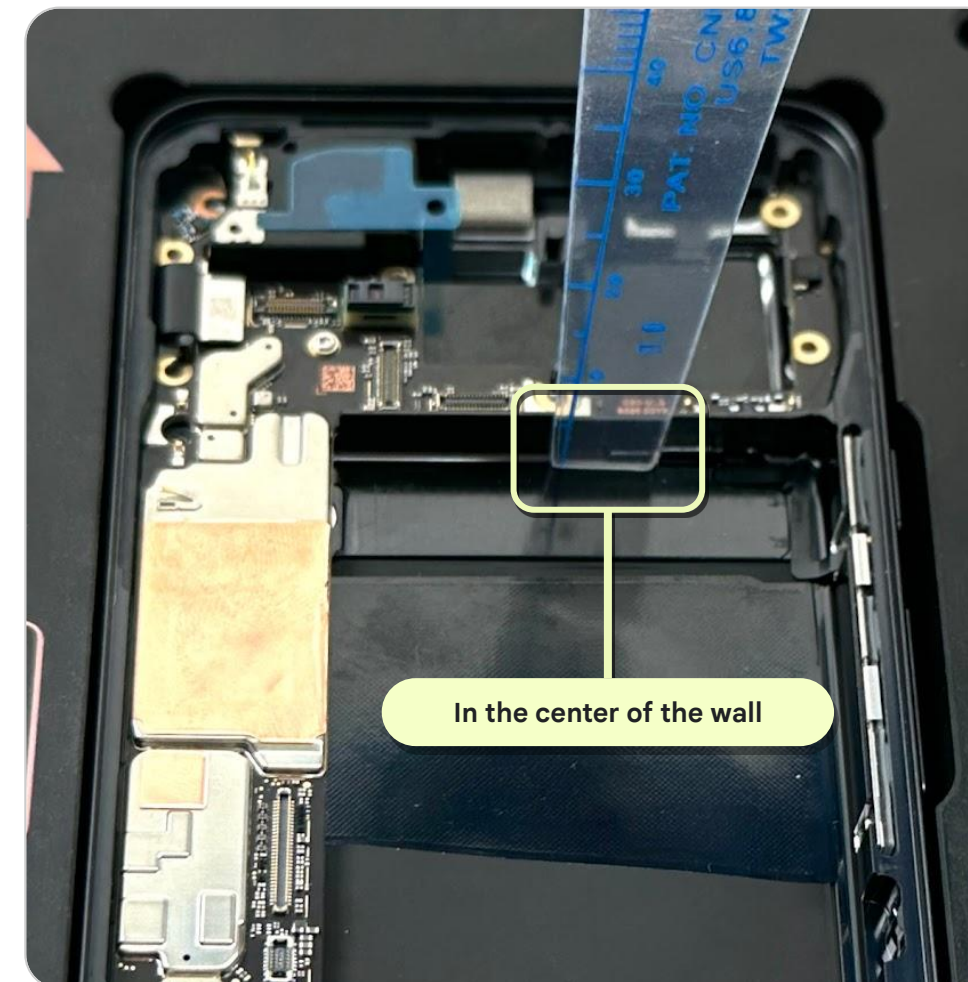
Align Battery-continued

- Use the **Universal adsorption bulb** to pick up the **Battery** and remove the release liner.

- Align the **Battery** with the dashed lines (Fig 1).

- Gently press the **Battery** down with the **Universal adsorption bulb** (Fig 2).

- Remove the **Universal adsorption bulb**.

Part: G949-00574-01 (Battery)

Fig 1

Fig 2

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   **Battery**   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 144
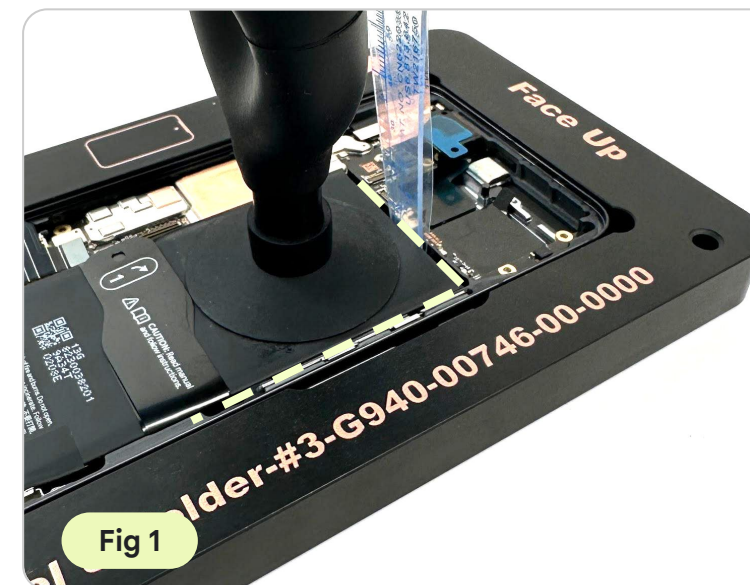
Prepare to press

- Using the alignment pins, place the **Pixel 8-Battery Press Rubber** on top of the device, followed by the **Universal Press Plate 12mm** to create a stack.

- Place the stack on the **Universal Base**.

Align with the two pins. Make sure the rubber is fully touching the Battery.

Universal-Press Plate 12mm

-G940-00736-00-0000

Face Up

USB

Pixel 8-Holder-#3-G980-16628-00-DOE3

Battery Press Rubber

Universal-Press Plate 12mm

-G940-00736-00-0000

Universal-Base-#0-G980-14549-00-000

Universal Base

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   **Battery**   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 145

Place in fixture

- Place the **Universal Base and stack** into the **Universal Press**.

- Press the handle down for **10 seconds**.

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

⚠️ **Use Caution**

Pinch point.

Keep hands clear during operation.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   **Battery**   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 146

Assembly
instructions
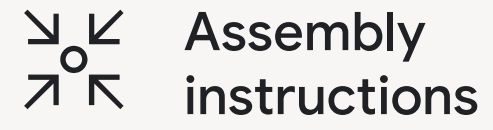
mmWave Module

Re-using 5G Module

Clean residue from **5G Module** with the **Universal Disassembly ESD stick**.

Part: G345-01353-06 (5G Module)

Note

This step is only needed for the mmWave Sku.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   **mmWave Module**   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 148
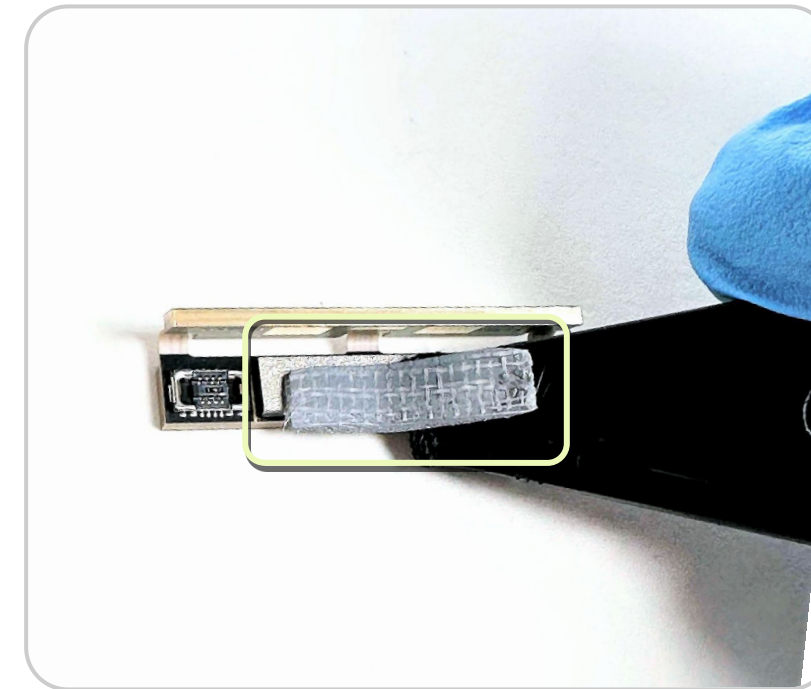
Re-using mmWave Flex

Remove all residue from the **2** locations on the **mmWave Flex**.

Part: G652-01927-06 (mmWave Flex)

Note

This step is only needed for the mmWave Sku.

Use Caution

Be careful not to damage or puncture the cable. It is fragile and may not work as intended, if damaged.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   **mmWave Module**   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 149
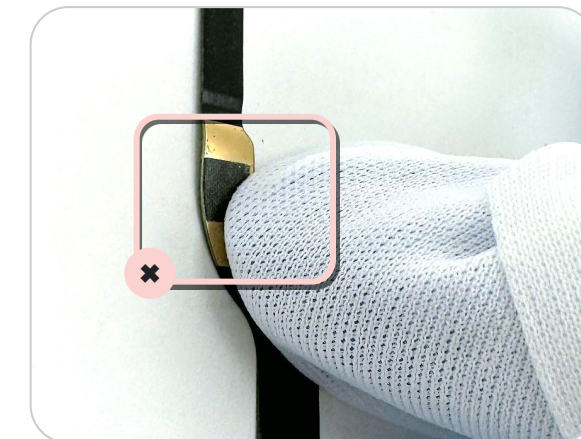
Adhere mmWave Flex CPSA

Attach the 2 **CPSA** to the designated locations.

Part: G652-01927-06 (mmWave Flex)

Part: G806-11703-00 (mmWave Flex CPSA-1)

Part: G806-11704-00 (mmWave Flex CPSA-2)

Note

This step is only needed for the mmWave Sku.

A: G806-11703-00

B: G806-11704-00

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   **mmWave Module**   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display
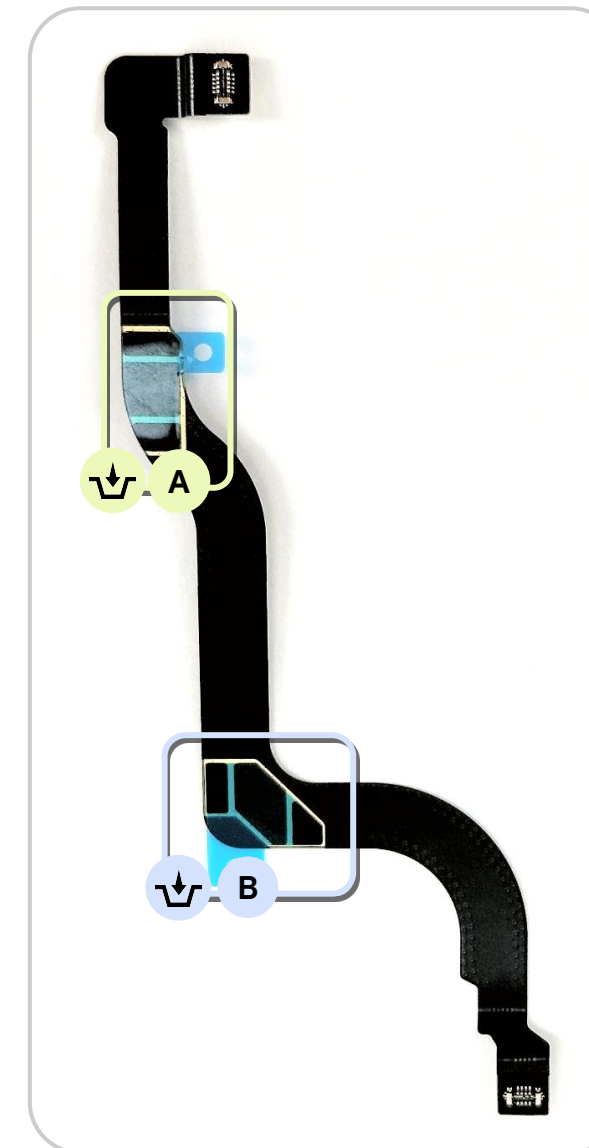
Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 150

Assemble mmWave Flex

Attach the **mmWave Flex** to the **5G Module**.

Part: G345-01353-06 (5G Module)

Part: G652-01927-06 (mmWave Flex)

💡 **Note**

This step is only needed for the mmWave Sku.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   **mmWave Module**   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 151

Insert mmWave Flex

Attach the **mmWave Module** and **mmWave Flex** to the **Enclosure**.

| Part: **G345-01353-06** (5G module) |

| Part: **G652-01927-06** (mmWave Flex) |

💡 Note

This step is only needed for the mmWave Sku.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   **mmWave Module**   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 152

Apply Thermal Pad

Align the **mmWave Thermal Pad** with the outline on **mmWave Heatsink**.

Part: **G730-06611-21** (mmWave Heatsink)

Part: **G806-07909-01** (mmWave Thermal Pad)

Note

This step is only needed for the mmWave Sku.

Inspect the spring status (Heatsink Spring Location)

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   **mmWave Module**   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 153
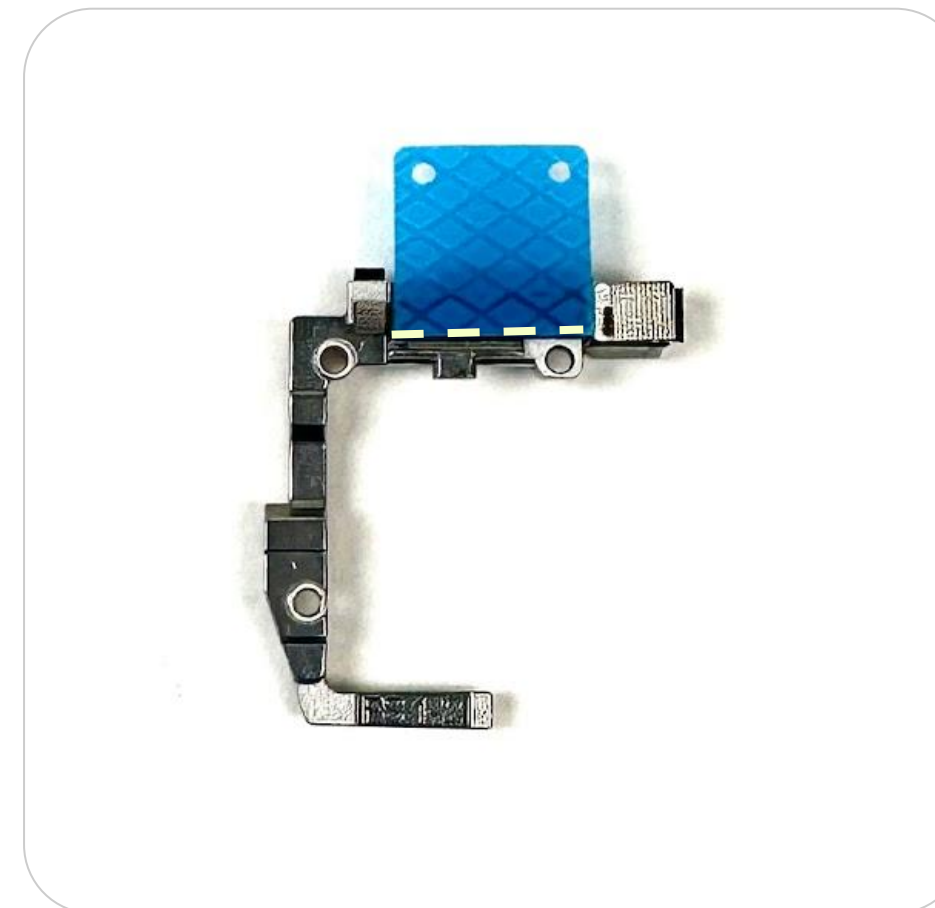
Insert Heatsink

- Tear off the blue release liner before affixing the **Heatsink** (Fig 1).

- Insert the **Heatsink** at an angle (Fig 2 & 3).

Part: **G730-06611-21** (mmWave Heatsink)

Part: **G730-06611-22** (Sub6 Heatsink)

💡 Note

The blue release liner needs to be removed only for the mmWave Sku.

Fig 1

Fig 2

Fig 3

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   **mmWave Module**   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display
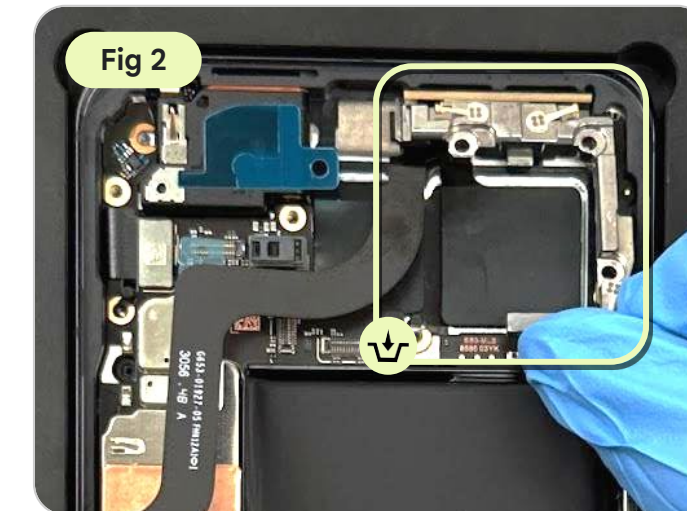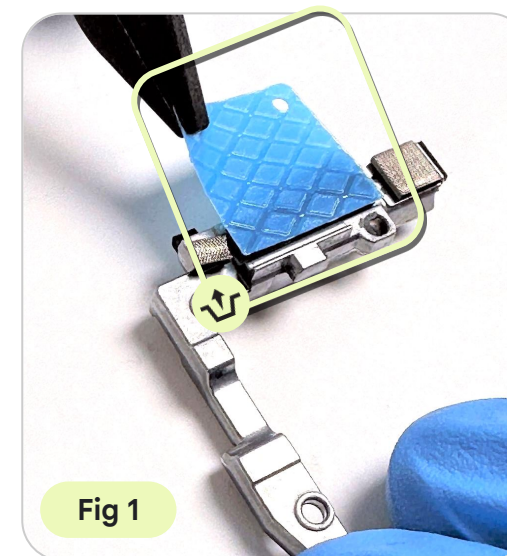
Tighten screw

- Place the **Pixel 8-Screw Cover** on the **Pixel 8-Holder**.

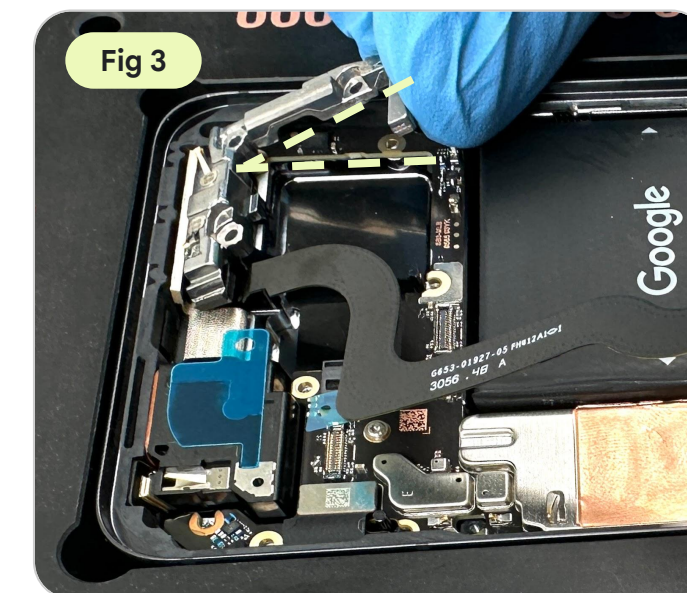- Tighten the **Heatsink Screw** with a **Adjustable torque screwdriver** with **Screwdriver Hex Shank Torx Plus Bit no.3**, then remove the **Pixel 8-Screw Cover**.

Part: G250-06946-10 (Screw)

> ### Note
> Torque force: 1.2 ± 0.03 kgf-cm

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   **mmWave Module**   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 155

Assembly
instructions

Rear Camera

Connect Rear Camera UW

Apply even pressure to attach the **RCAM UW Connector** to the **Logic Board**.

Part: G949-00571-01 (Rear Camera UW)

⚠ Use Caution

Ensure that the environment is clean for this process.

○ Note

Check every connector is fully attached to the Logic Board.

Slightly lift the FPC (only for mmWave)

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   **Rear Camera**   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 157

Connect Rear Camera

Apply even pressure to attach the **RCAM Connector** to the **Logic Board**.
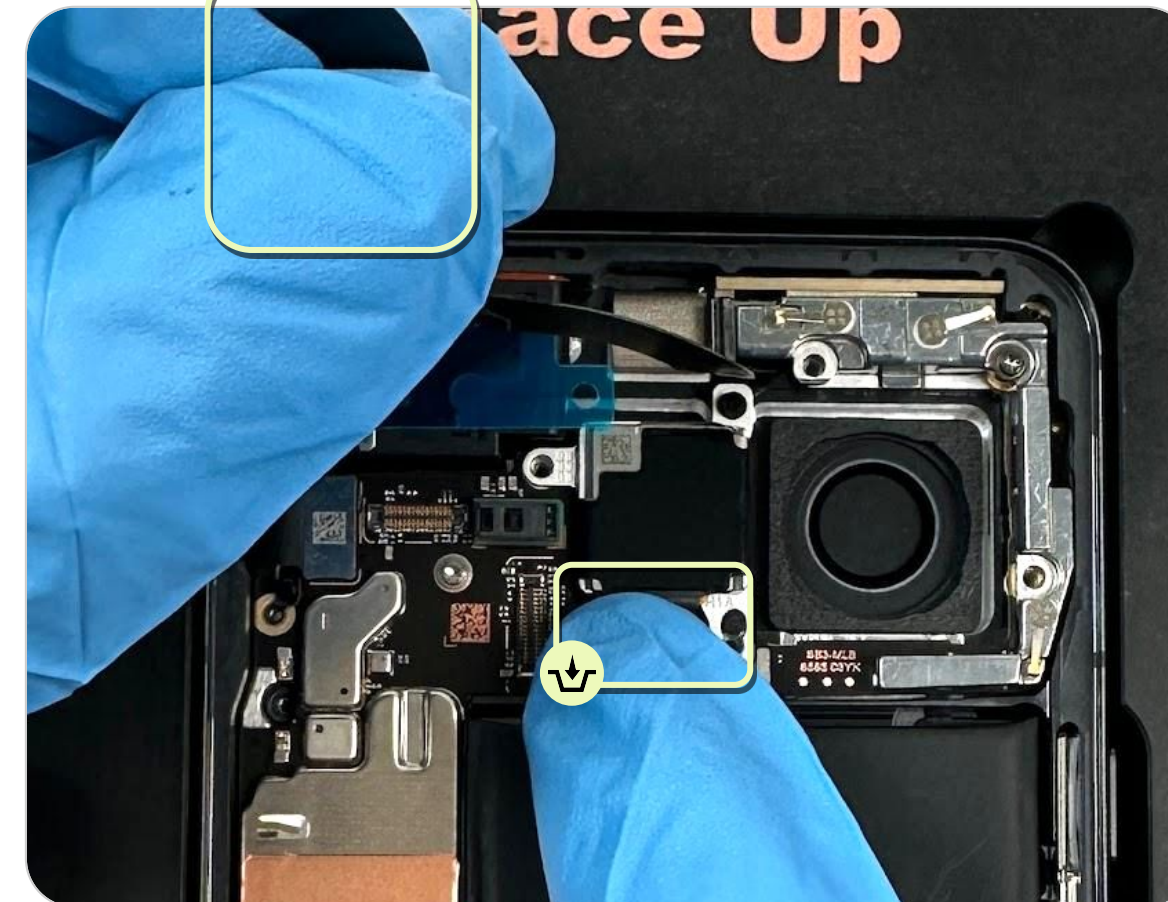
Part: G949-00572-01 (Rear Camera)

💡 **Note**

Check every connector is fully attached to the Logic Board.

Slightly lift the FPC (only for mmWave)

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   **Rear Camera**   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 158
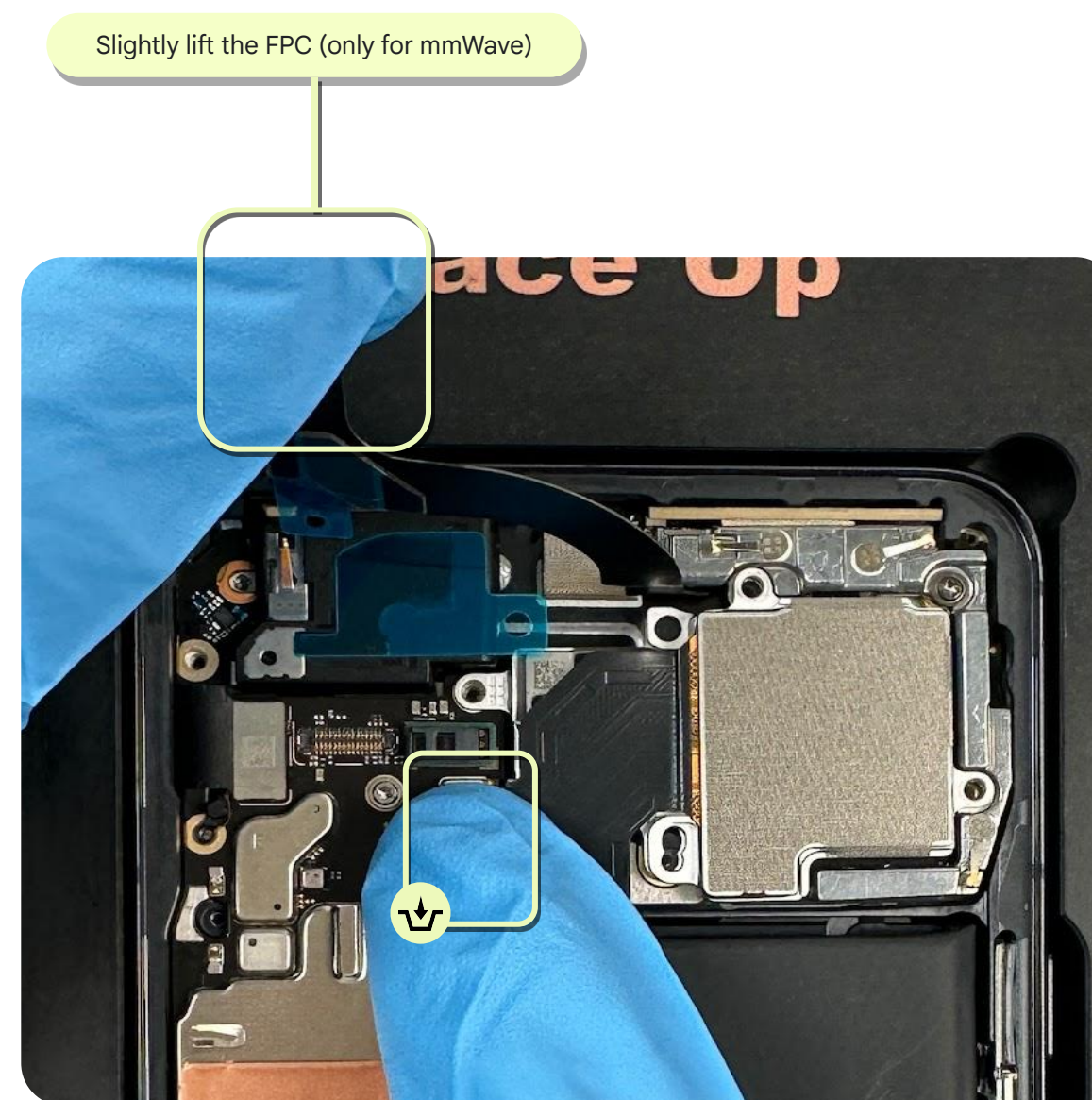
Tighten screws

- Place the **Pixel 8-Screw Cover** on the **Pixel 8-Holder**.

- Tighten the **2 Rear Camera Screws** with a **Adjustable torque screwdriver** with **Screwdriver Hex Shank Torx Plus Bit no.3**, then remove the **Pixel 8-Screw Cover**.

Part: G250-06946-10 *2 (Screw)

💡 **Note**

Torque force: 1.4 ± 0.03 kgf-cm

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   **Rear Camera**   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 159

Assembly
instructions

Front Camera

Attach Front Camera

- Remove release liner with **ESD Tweezers** (Fig 1).

- Slightly lifting the **mmWave** fpc, connect the **FCAM** Connector to the **Logic Board** (Fig 2).

- Adhere **FCAM fpc** per the red rubber ring location.

- Press down for 3 seconds to fully activate **Top Speaker** PSA (Fig 3 & 4). Make sure the flex adheres seamlessly to **the Top Speaker** (Fig 5 & 6).

Part: **G949-00570-01** (Front Camera)

⚠️ **Use Caution**
Ensure that the environment is clean for this process.

💡 **Note**
Check every connector is fully attached to the Logic Board.

Fig 1

Fig 3 — OK

Fig 5 — OK

Fig 2

Fig 4 — NG

Fig 6 — NG

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   **Front Camera**   Bottom Speaker   Mid-frame   Graphite Sheet   Display
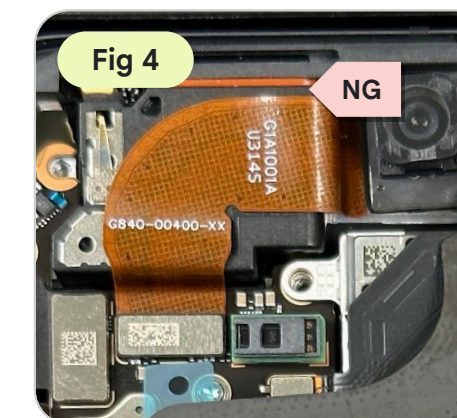
Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 161
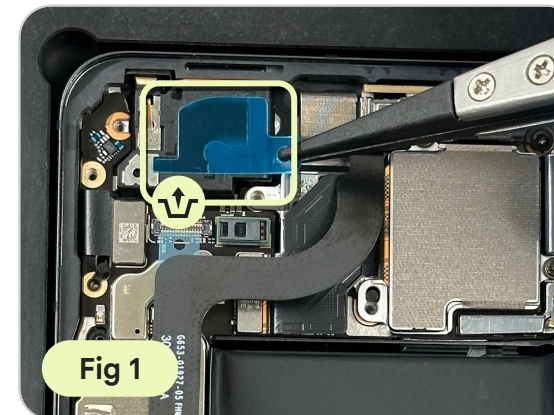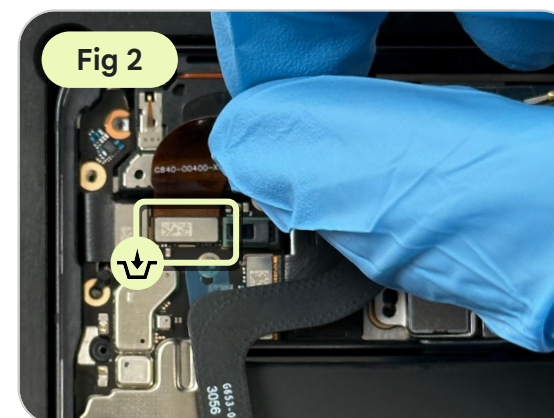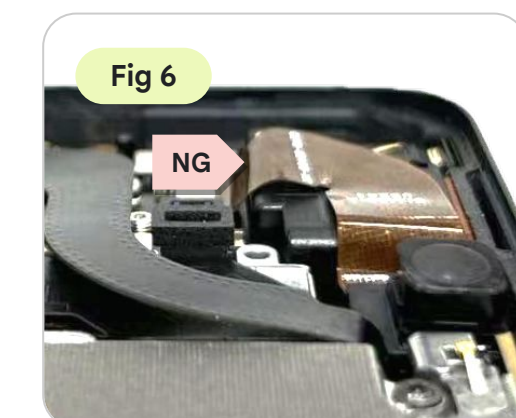
Assembly
instructions

Bottom Speaker

Attach Bottom Speaker

- Inspect the spring status (Bottom Speaker spring location).

- Slot the **Bottom Speaker** into the **Enclosure**.

- Insert the **Bottom Speaker** at an angle.

Part: G863-00507-03 (Bottom Speaker)

Note

Make sure the speaker goes under the enclosure rim.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   **Bottom Speaker**   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 163
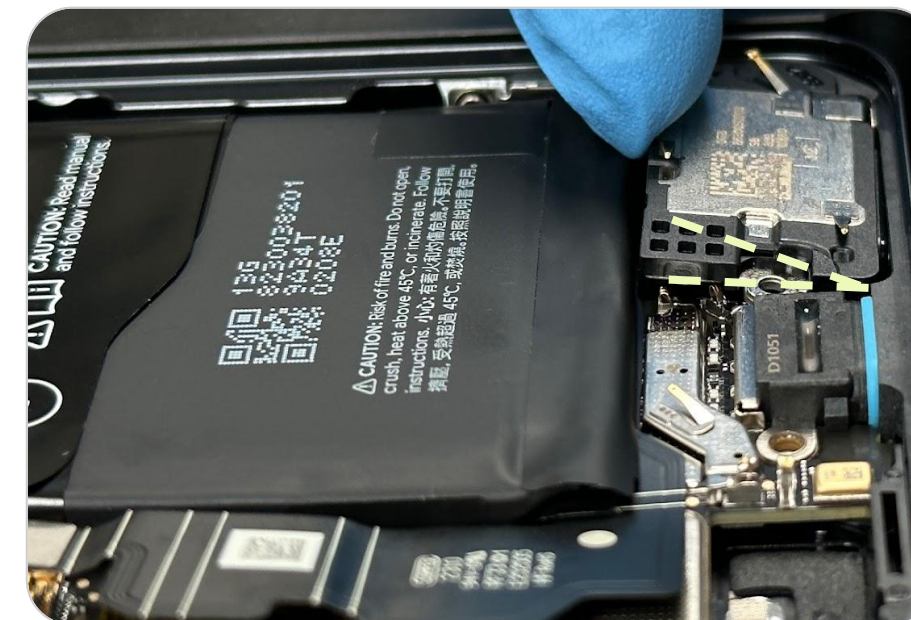
Tighten screw

- Place the **Pixel 8-Screw Cover** on the **Pixel 8-Holder**.

- Tighten the **Bottom Speaker Screw** with a **Adjustable torque screwdriver** with **Screwdriver Hex Shank Torx Plus Bit no.3**, then remove the **Pixel 8-Screw Cover**.

Part: **G250-06946-10** (Screw)

💡 **Note**

Torque force: 1.4 ± 0.03 kgf-cm

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   **Bottom Speaker**   Mid-frame   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 164

Assembly
instructions

Mid-frame

Re-using Mid-frame

- Inspect to ensure the **Thermal Pad** is on the bottom side of the **Mid-frame** (Fig 1) and is undamaged.

- If it is missing or damaged, use an **ESD Spudger** with **IPA** to clean all residue from the **Mid-frame** (Fig 1 & Fig 2).

Note

An undamaged Thermal Pad can be reused.

Otherwise, it will need to be replaced.

Fig 1

SOC Thermal Pad

Fig 2

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   **Mid-frame**   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 166
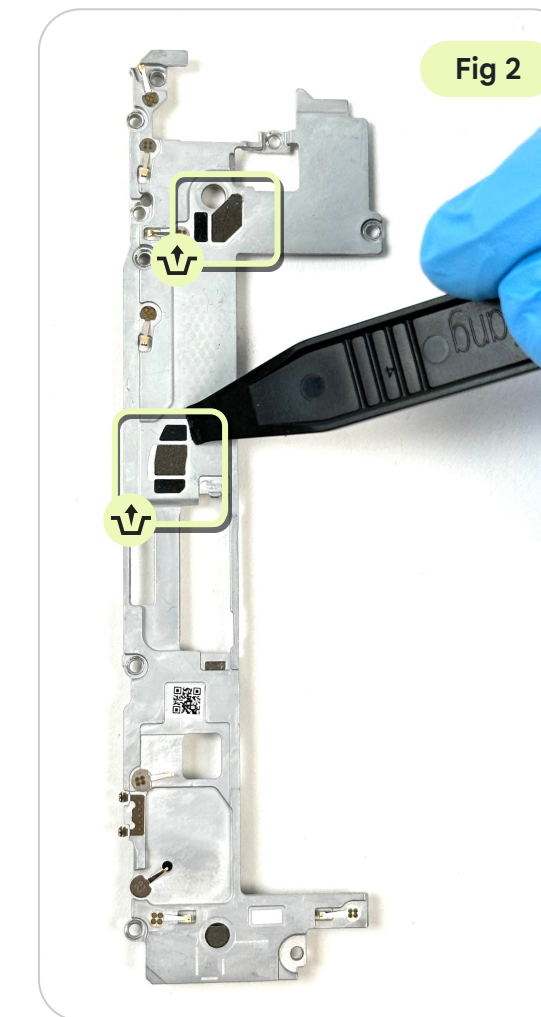
Apply Thermal Pad

Align the **Thermal Pad** with the outline on the **Mid-frame**. Remove the release liner after application.

Part: G806-07607-02 (SOC Thermal Pad)

Note

This step is only need for a new or a cleaned Mid-frame for reuse.

Use Caution

Don't forget to remove the release liner after installation.

Apply the Thermal Pad according to the outline.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   **Mid-frame**   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 167
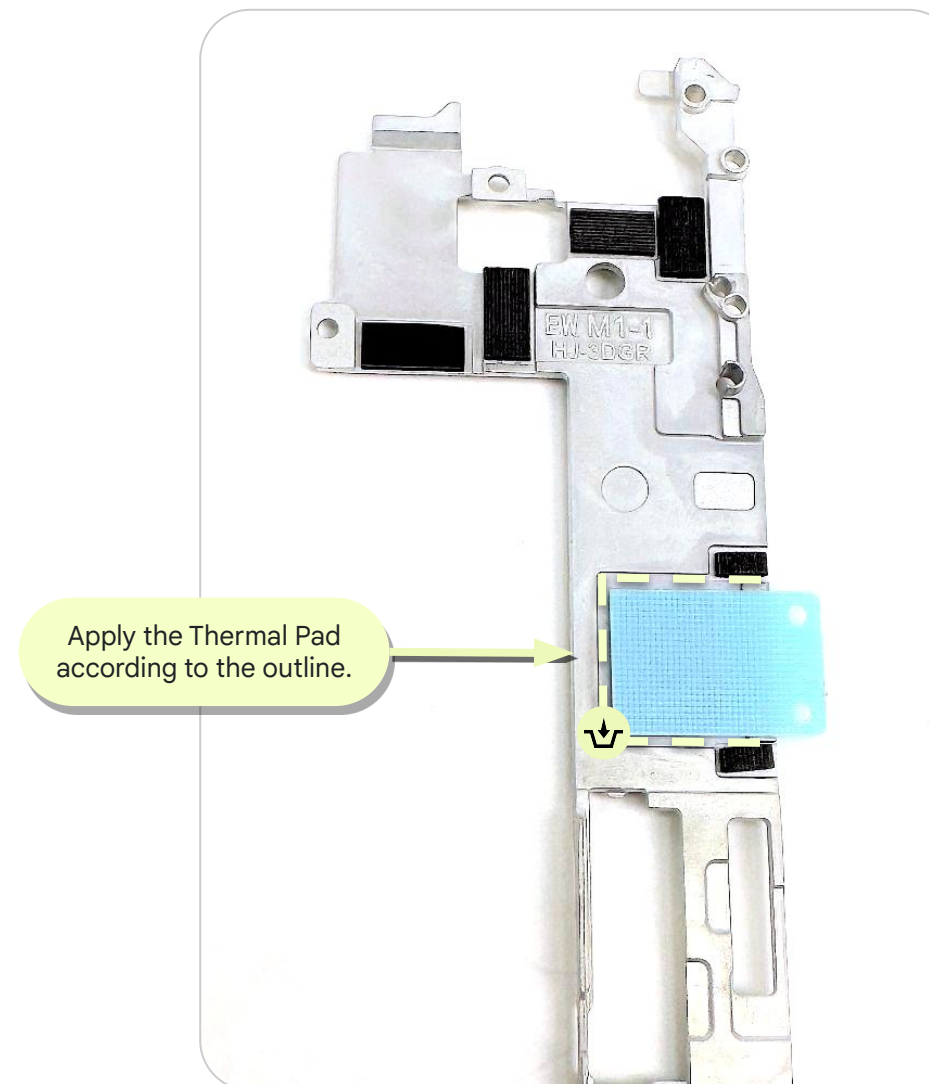
Connect Battery

Connect the **Battery Flex** to the **Logic Board**.

> ## 💡 Note
>
> Check every connector is fully attached to the Logic Board.
>
> The mmWave flex is only needed for the mmWave Sku.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   **Mid-frame**   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 168

Fit Mid-frame

- Gently lift the **mmWave Flex**.

- Assemble the **Mid-frame** per the positioning posts on the **Logic Board**.

Part: G949-00573-01 (Mid-frame)

Slightly lift the FPC (only for mmWave)

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   **Mid-frame**   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 169
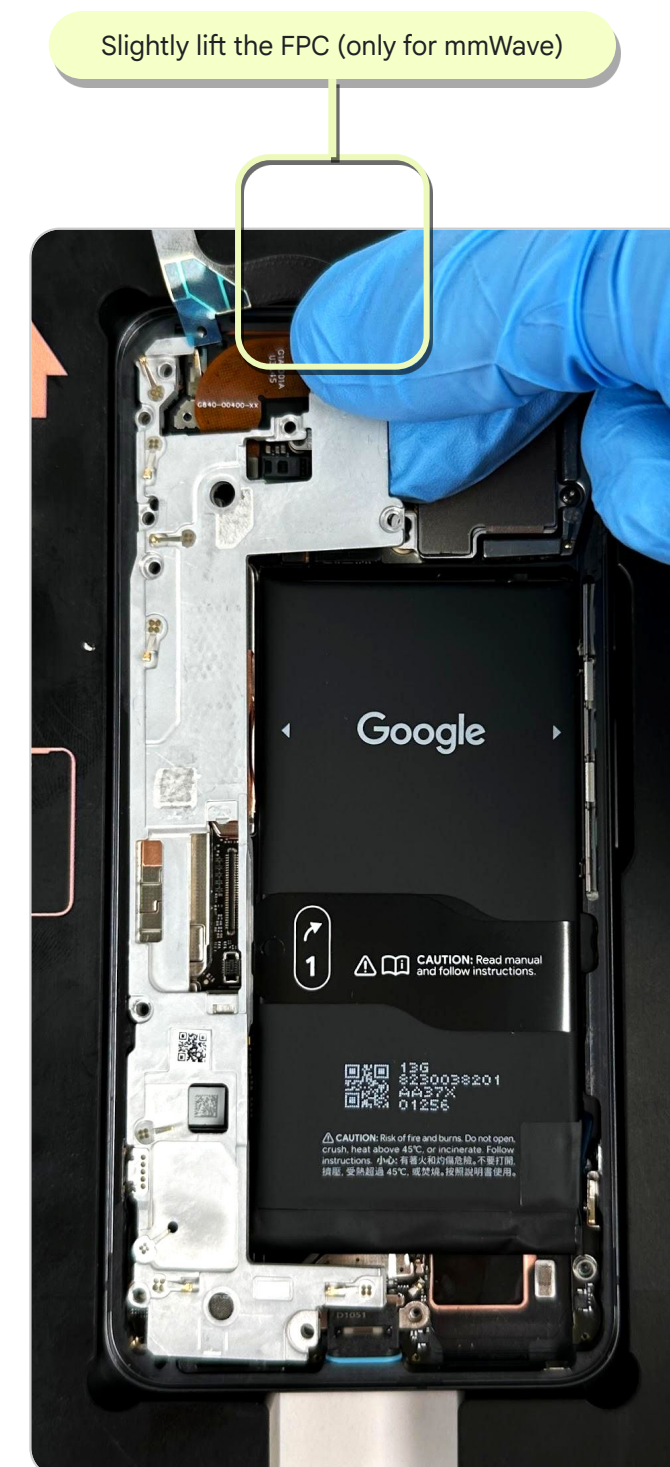
Fasten Mid-frame

- Place the **Pixel 8-Screw Cover** on the **Pixel 8-Holder**.

- Tighten the **8 Mid-frame Screws** with a **Adjustable torque screwdriver** with **Screwdriver Hex Shank Torx Plus Bit no.3**, take out the **Pixel 8-Screw Cover**.
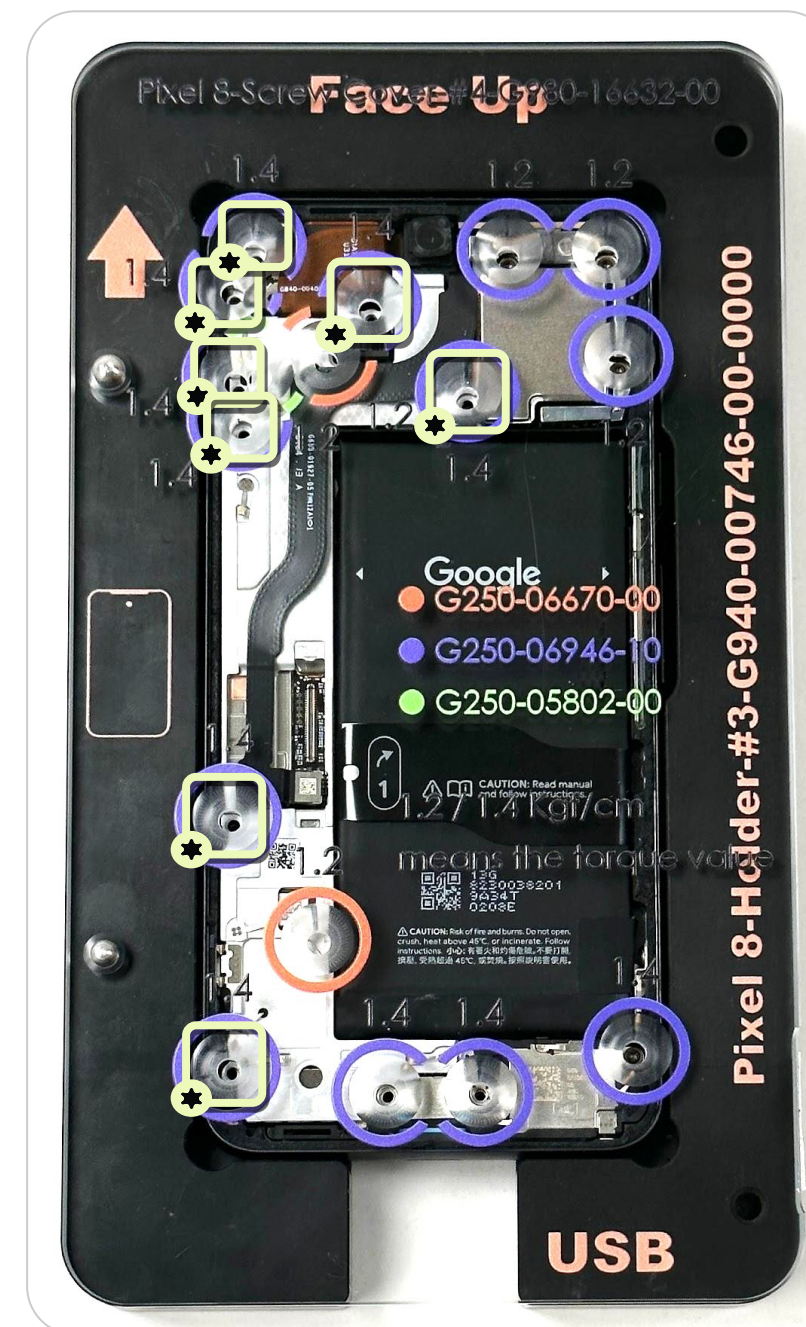
Part: G250-06946-10 *8 (Screw)

Note

Torque force: 1.4 ± 0.03 kgf-cm

Use Caution

Be careful when using the screwdriver to not damage the adjacent battery.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   **Mid-frame**   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 170

Fasten USB-C cowling

- Assemble the **USB-C cowling** according to the two positioning posts on the **Mid-frame** and **Bottom Speaker**.

- Place the **Pixel 8-Screw Cover** on the **Pixel 8-Holder**.

- Tighten the **2 USB-C cowling Screws** with a **Adjustable torque screwdriver** with **Screwdriver Hex Shank Torx Plus Bit no.3**, and remove the **Pixel 8-Screw Cover**.

Part: G853-01546-00 (USB-C cowling)

Part: G250-06946-10 *2 (Screw)

⚠️ **Use Caution**

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

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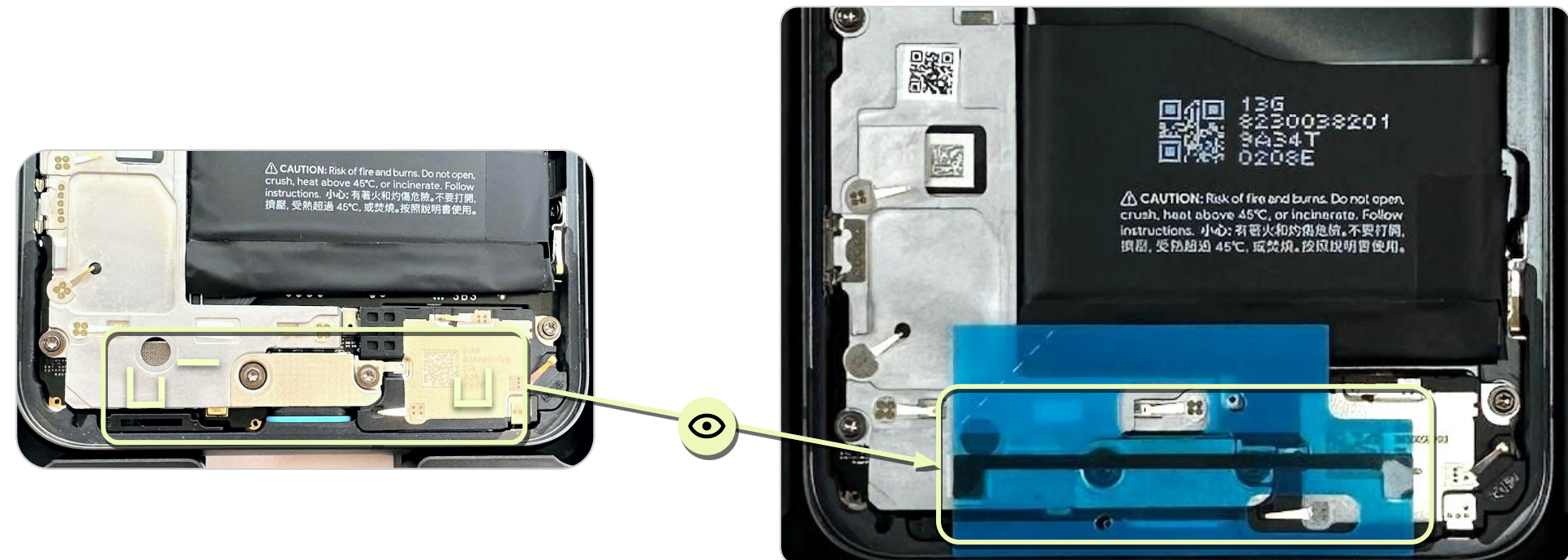
💡 **Note**

Torque force: 1.4 ± 0.03 kgf-cm

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   **Mid-frame**   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 171

Adhere DIC SHIM

- Align the **DIC SHIM** with the **2 Laser Engraving Lines** on the **Mid-frame** and **Bottom Speaker**.

- Use **ESD Tweezers** to slowly tear off the release liner.

Part: G806-09026-01 (DIC SHIM)

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   **Mid-frame**   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 172

Attach P-sensor Grommet

Attach **P-sensor Grommet** to the **Logic board** with **ESD Tweezers**.

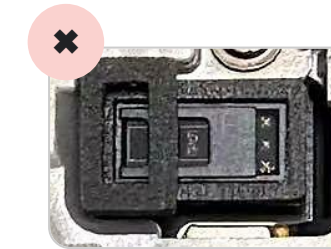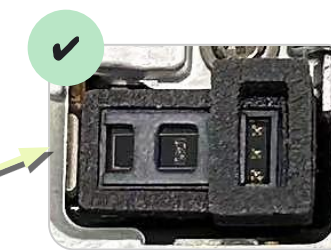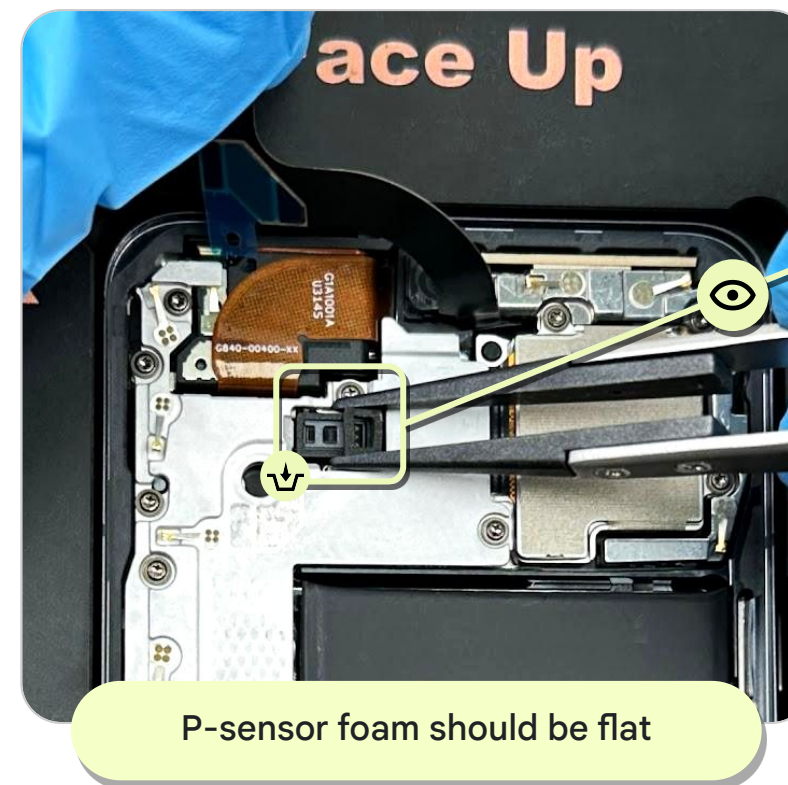Part: **G806-07441-01** (P-sensor Grommet)

Note

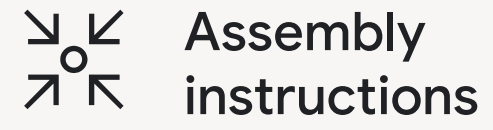Check P-sensor Grommet to ensure it is flat.

Skip this step, if the P-sensor grommet was not removed from the logic board during disassembly.

⚠ Use Caution

Use a new grommet when replacing the MLB.
Don't reuse the old P-sensor grommet.

P-sensor foam should be flat

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   **Mid-frame**   Graphite Sheet   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 173

Assembly
instructions

Graphite Sheet

Inspect Springs

- Inspect the **Springs** at the numbered locations.

Locations

1	Top Speaker	5	Mid-frame D	9	Mid-frame H	13	ANT7 bracket
2	Mid-frame A	6	Mid-frame E	10	Bottom Speaker C	14	Heatsink C
3	Mid-frame B	7	Mid-frame F	11	Bottom Speaker B	15	Heatsink B
4	Mid-frame C	8	Mid-frame G	12	Bottom Speaker A	16	Heatsink A

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   **Graphite Sheet**   Display

Apply Graphite Sheet

- With the device in the **Pixel 8-Holder**, place the **Graphite Sheet**, aligning it with the outline of **Enclosure**.

Part: G864-00621-01 (Graphite Sheet)

Slightly lift the FPC (only for mmWave)

Align to the outline of the Enclosure

Face Up

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   **Graphite Sheet**   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 176
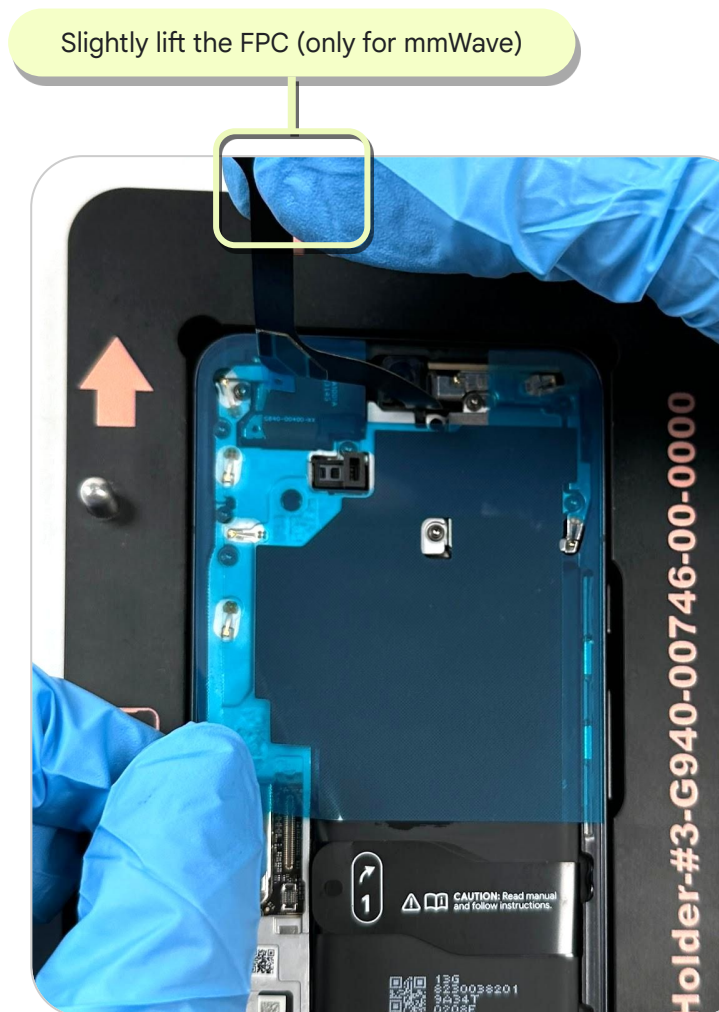
Adhere Graphite Sheet

- Run the **Universal Scraper** over the **Graphite Sheet** to smooth out any air pockets. Use the smaller end where needed.

- Take extra care when applying pressure to the battery area.

⚠️ **Use Caution**

Select the appropriate end of the Universal Scraper to smooth the sheet.

Avoid pressing on top of gaskets and springs, as it may deform them.
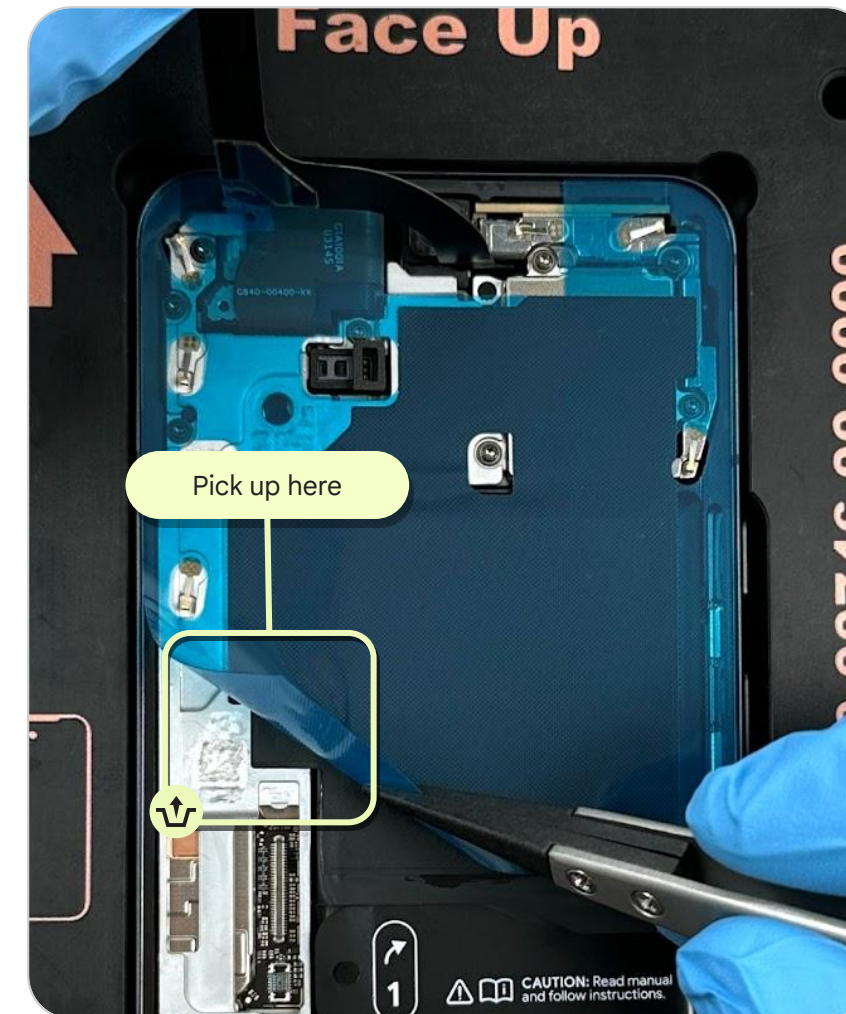

Slightly lift the FPC (only for mmWave)

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   **Graphite Sheet**   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 177

Remove release liner

Peel off the release liner with **ESD Tweezers**.

⚠️ **Use Caution**

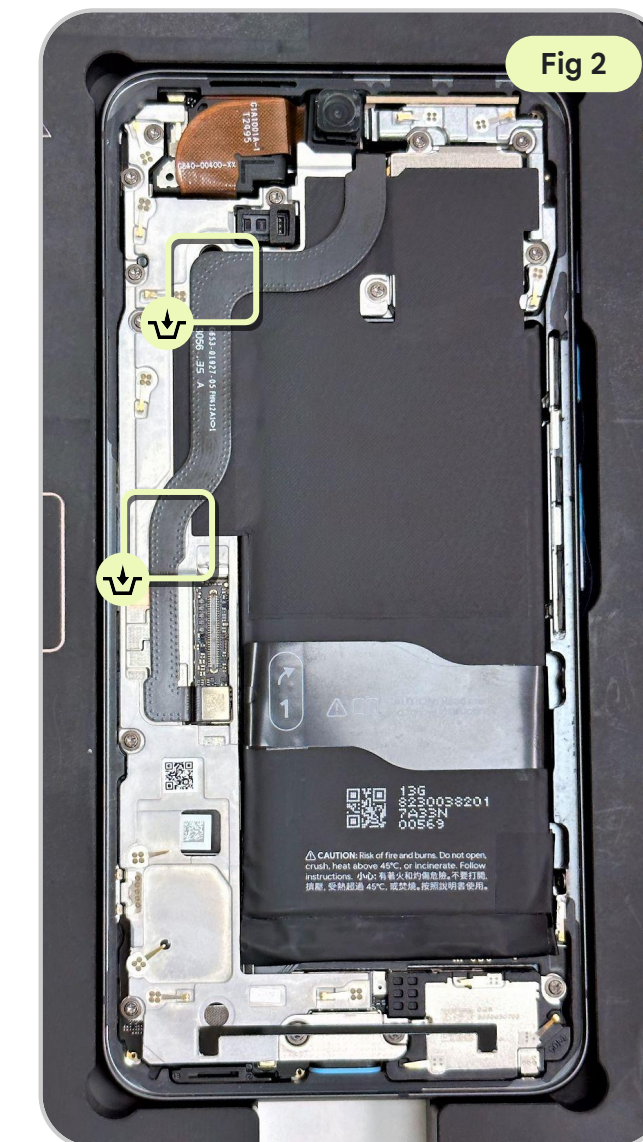Avoid pressing on top of gaskets and springs, as it may deform them.

Pick up here

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   **Graphite Sheet**   Display

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 178

Attach mmWave Flex

- Tear off the **2 CPSA release liners**. (Fig 1).

- Align flex with the outline, and press down with an **ESD spudger** to activate the PSA (Fig 2).

> 💡 **Note**
>
> This step is only needed for the mmWave Sku.

Fig 1

Fig 2

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   **Graphite Sheet**   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 179

Connect mmWave Module

Connect **mmWave Flex** to the **Logic Board**.

💡 **Note**

Check every connector is fully attached to the Logic Board.

This step is only needed for the mmWave Sku.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   **Graphite Sheet**   Display

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 180

Assembly
instructions

Display

Re-using Display

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

- Apply **Masking Tape** to the **Flex**.

- It is recommended to carefully and slowly peel off the adhesive by hand in one piece. Use an **ESD spudger** or **Deglue Machine** to clean it.

- Use a **Dust-Free Cloth** to clean the surface with **IPA** where needed.

When bending the FPC, avoid creasing or damaging the FPC.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   **Display**

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 182
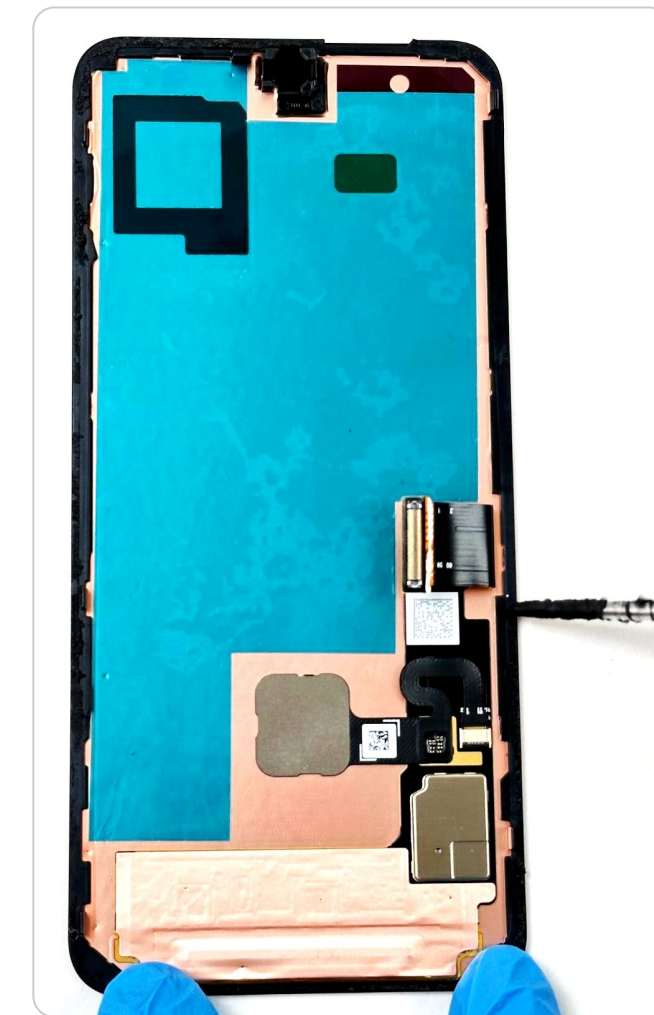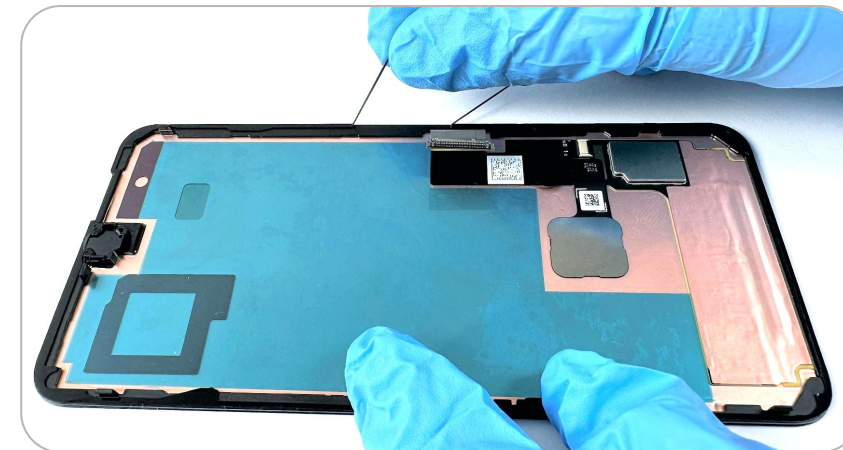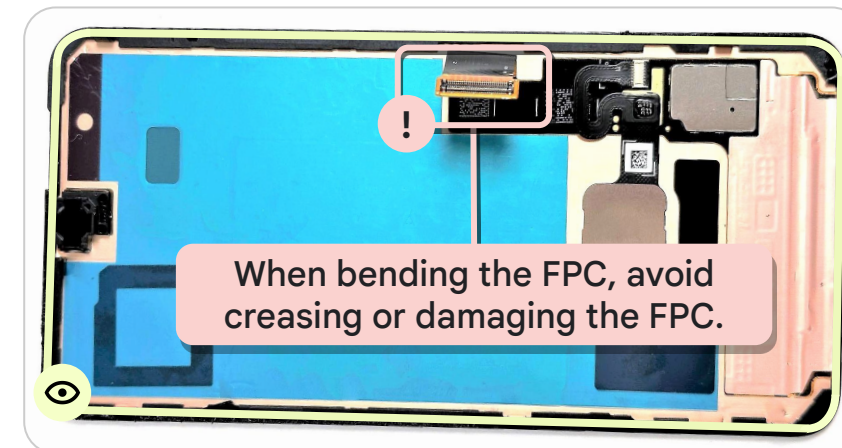
Apply primer on Display

- Apply **IPA** around the edges of the **Display Module** using a **Dust-free cotton swab**. Use an **Ionizing air fan** to blow over.

- Apply **3M 111 Primer** around the edges of the **Display Module** using a **Dust-free cotton swab**. Use an **Ionizing air fan** to blow over.

Part: G949-00555-01 (Display Module)

⚠️ **Use Caution**

When applying IPA & AP111 primer to the Display Module, avoid touching the copper and sponge areas.

Once Primer has been applied, complete assembly in 25 mins.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   **Display**

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 183
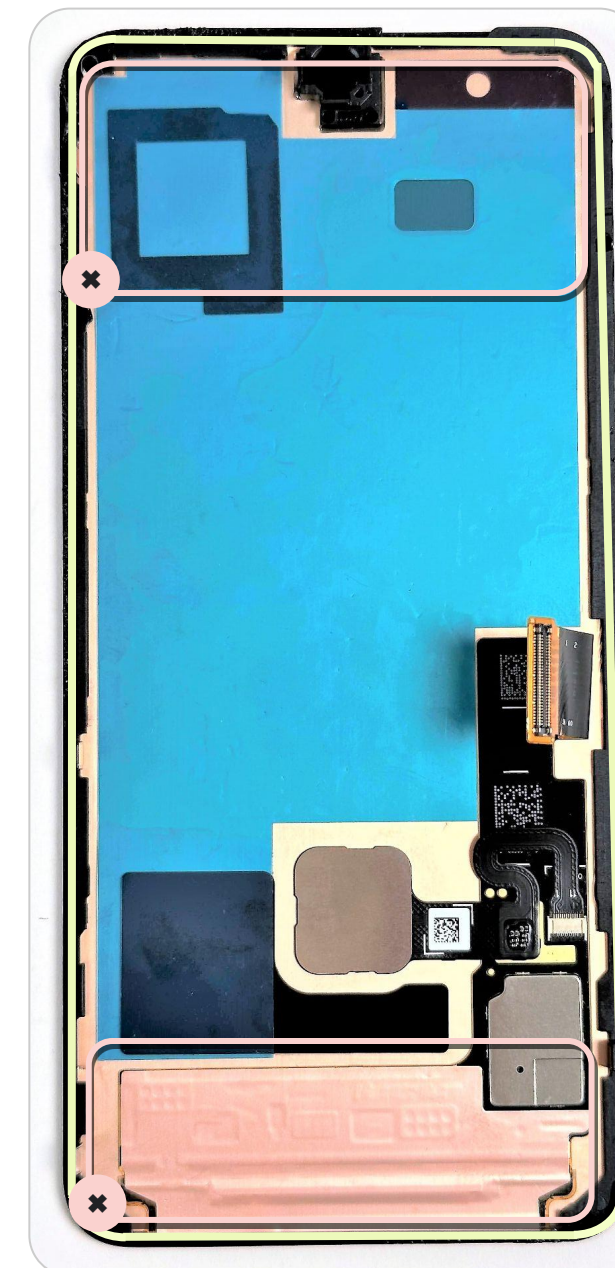
Remove release liner

Slowly remove the release **liner** from the **Adhesive** by hand.

Part: G806-09106-12 (CG-Trim PSA)

⚠️ **Use Caution**

Don't touch the adhesive.
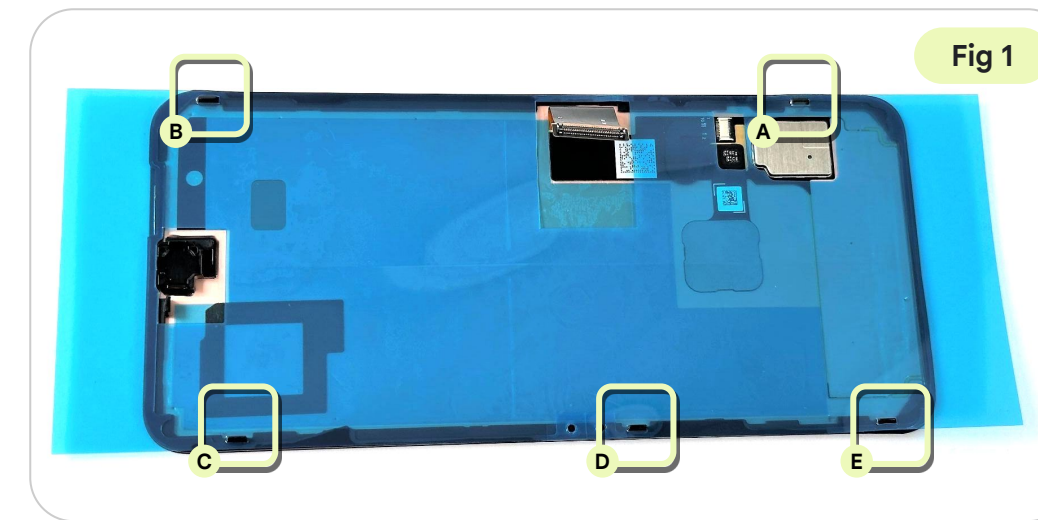
If it gets dirty, change for another one.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   **Display**

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 184
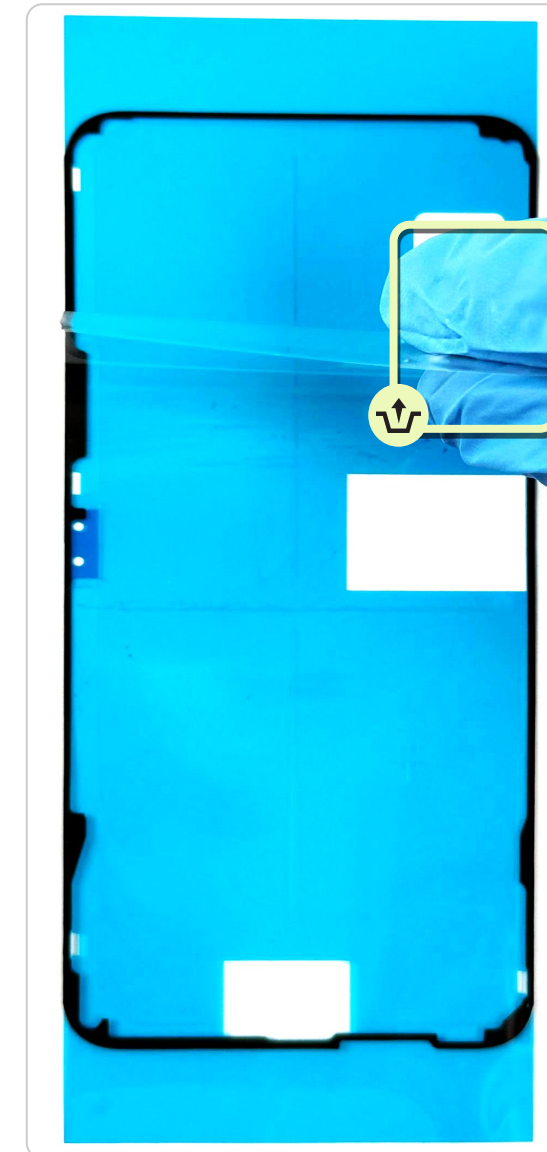
Align adhesive

- Make sure **FCAM release liner** does not interfere with **CG Trim** (Fig 1).

- Place the **Adhesive** with the **3 Snaps** on CG Trim by hand (Fig 2).

⚠ **Use Caution**

Don't touch the adhesive.

If it gets dirty, change for another one.

Fig 1

Fig 2

Align using the three snaps

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   **Display**

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 185
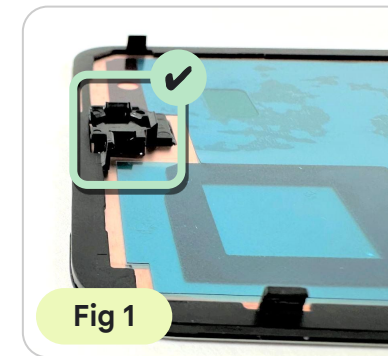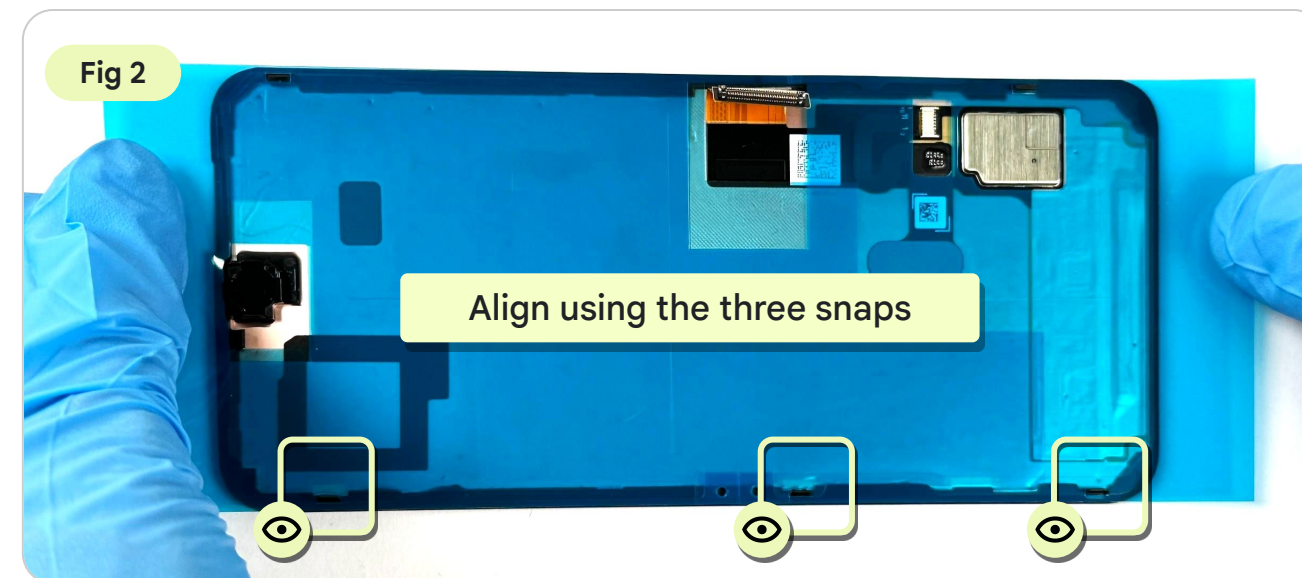
Adhesive to Display

- Make sure the **Adhesive** is completely seated into the **5 Snaps** (Fig 1).

- Use the **Universal Disassembly ESD stick** to activate the **Adhesive** (Fig 2).

> **Note**
>
> Inspect for any misalignment.

Fig 1

Fig 2

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   **Display**

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 186
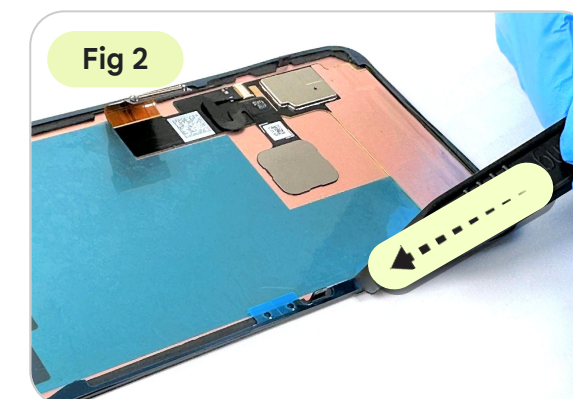
Remove release liner (1st layer)

Slowly pull the release liner to avoid lifting the adhesive.

> ⚠️ **Use Caution**
> Don't remove the 2nd layer of the release liner yet.

2nd layer liner

1st layer liner

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   **Display**

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 187
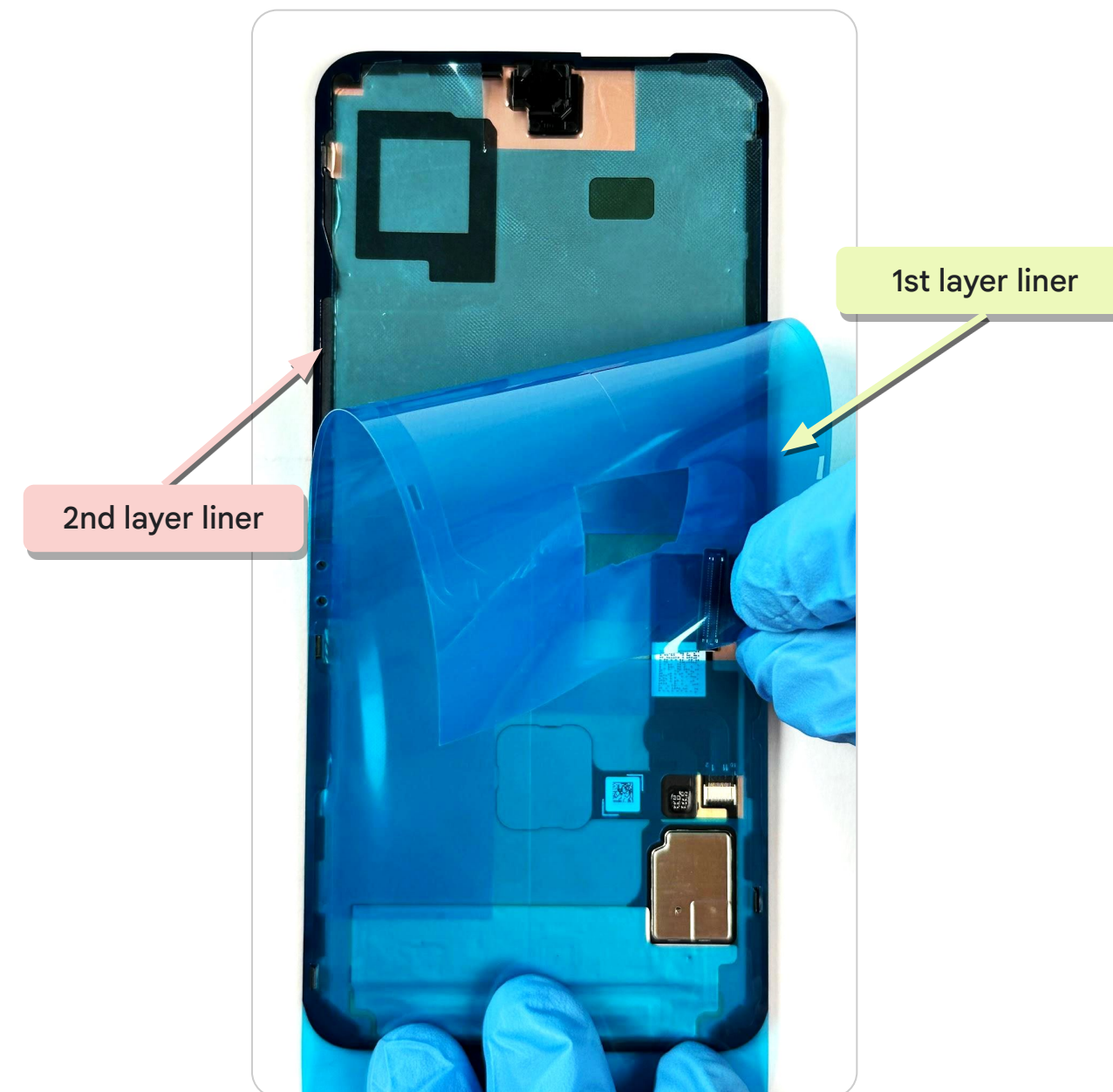
Apply Primer on Enclosure

- Apply **IPA** around the edges of the **Enclosure** using a **Dust-free cotton swab**. Use an **Ionizing air fan** to blow over.

- Apply **3M 111 Primer** around the edges of the **Enclosure** using a **Dust-free cotton swab**. Use an **Ionizing air fan** to blow over.

⚠️ **Use Caution**

Once Primer has been applied, complete assembly in 25 mins.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   **Display**

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 188

Align Display

- Before attaching the **Display Module**, visually check the **Springs**.

- Use the **Universal adsorption bulb** to prop up the **Display Module**.

⚠️ **Use Caution**

When attaching the display, **don't damage or deform the springs.**

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   **Display**

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 189

Connect Display

Connect the **Display Flex** to the **Logic Board**, applying even pressure across the connector to ensure it is fully engaged.

Note

Be careful to avoid damaging the springs (being especially diligent near where the Display contacts the Enclosure).

Use Caution

Avoid scratching the outside of the display flex against the Mid-frame.

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

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   **Display**

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 190
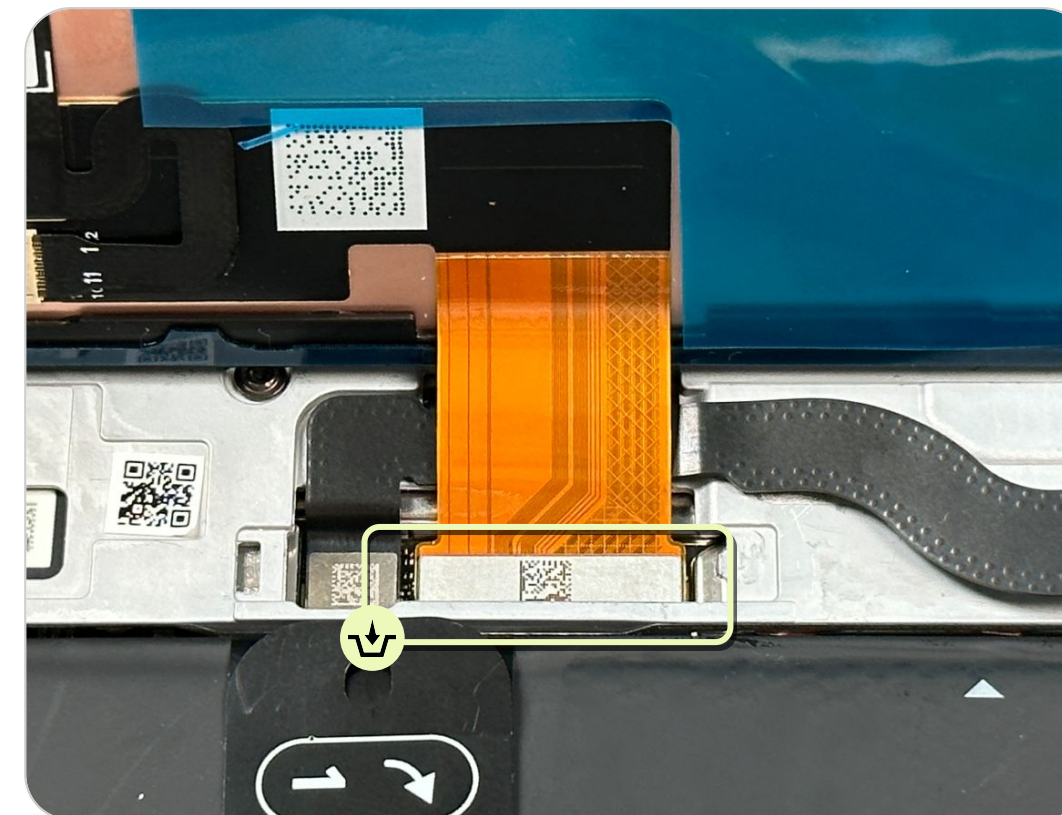
Check Display

- Remove the **Universal adsorption bulb** and any protective film.

- Power on to check if the device is working properly. Don't touch the device until it is fully booted up.

- Power off device after checking.

⚠ **Use Caution**

Don't touch any part of the device until it boots fully, since during the bootup process the touch panel self calibration may be in progress.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   **Display**

Pixel 8 Repair Manual v2.0   ©Google 2023 | Page 191

Install UDFPS Calibration

- Reboot device into the **Fastboot Mode**.

- Connect the device with a USB-C cable to a computer, and visit pixelrepair.withgoogle.com to download the UDFPS calibration software.

⚠️ **Use Caution**

This step is only needed if the display or the mainboard has been replaced.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   **Display**

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 192

Attach Display cowling

Attach a new **Display cowling** over the connector.

Part: G730-06613-21 (Display cowling-mmWave)

Part: G730-06613-22 (Display cowling-Sub6)

⚠️ ## Use Caution

Avoid scratching the outer surface of the flex against the midframe.

Make sure the trim snaps don't contact the adhesive.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   **Display**

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 193

Remove protective film

If there is protective film applied to the **Display Module**, use the **Universal adsorption bulb** to lift up the **Display Module** and remove the protective film using **ESD Tweezers**.

Pick the tab here

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   **Display**

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 194
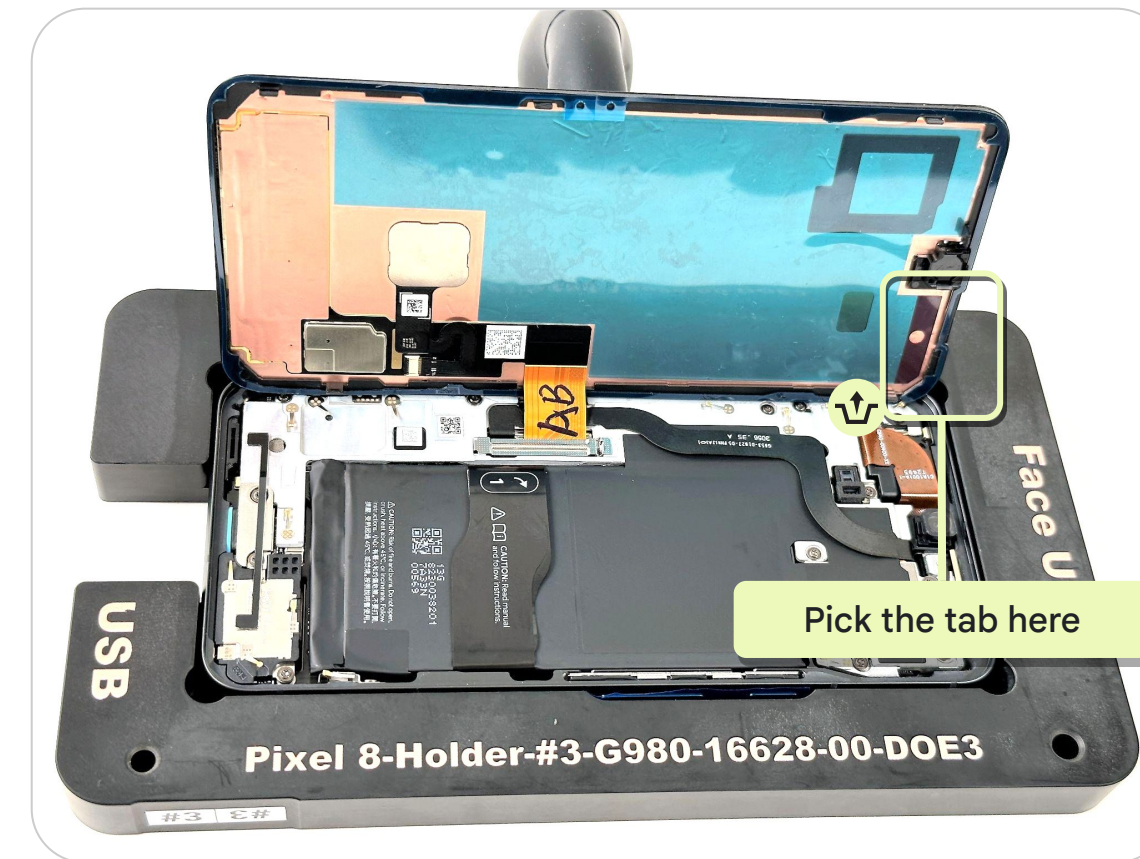
Remove release liner

Use **ESD Tweezers** to grab the **PSA release Liner** and carefully peel it off.

Pick the tab here
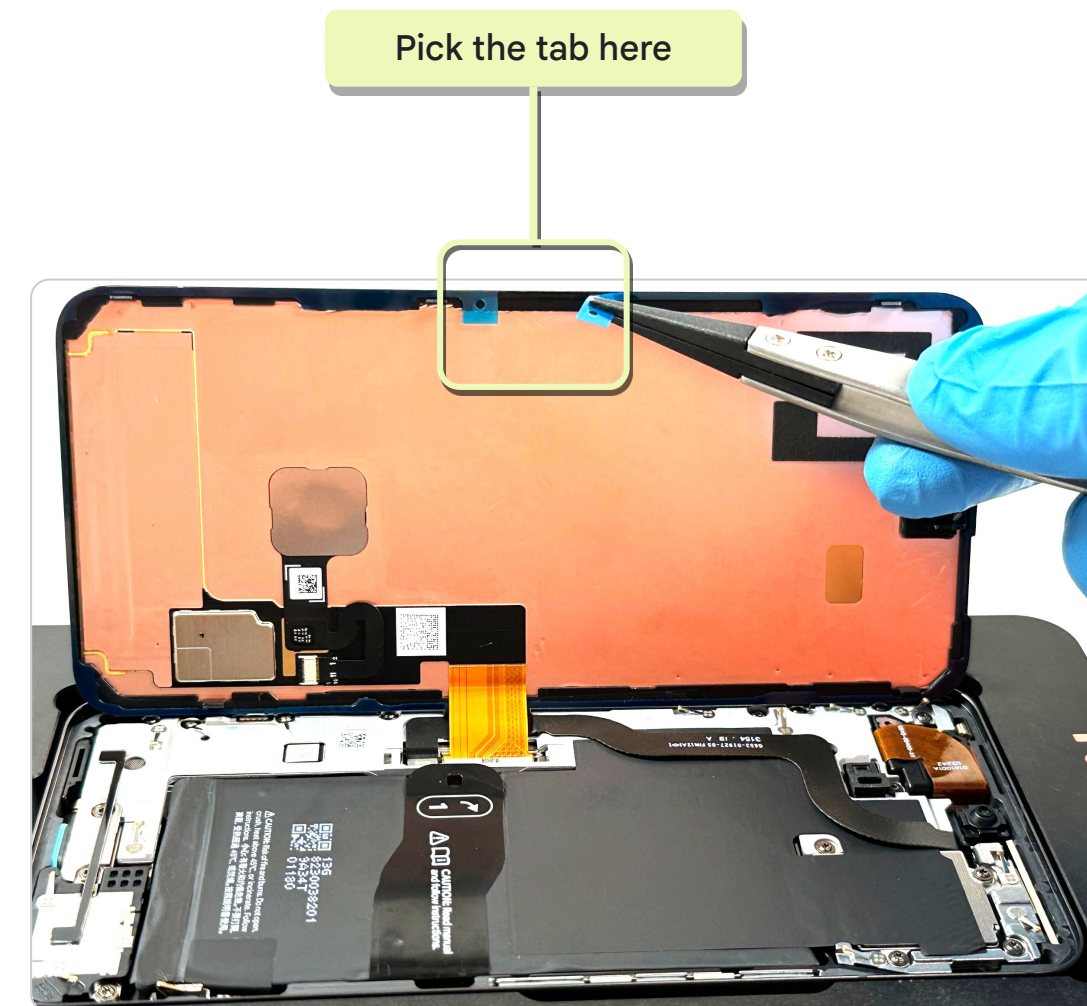
Attach Display

- Attach the **Display Module** onto the **Enclosure** vertically.

- Remove from the **Pixel 8-Holder** and press around the display bezel with both hands.

> ### 💡 Note
>
> Press the center of the top side first, followed by 2 longer sides and the bottom side.
>
> **Don't press the FCAM fpc area**.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   **Display**

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 196
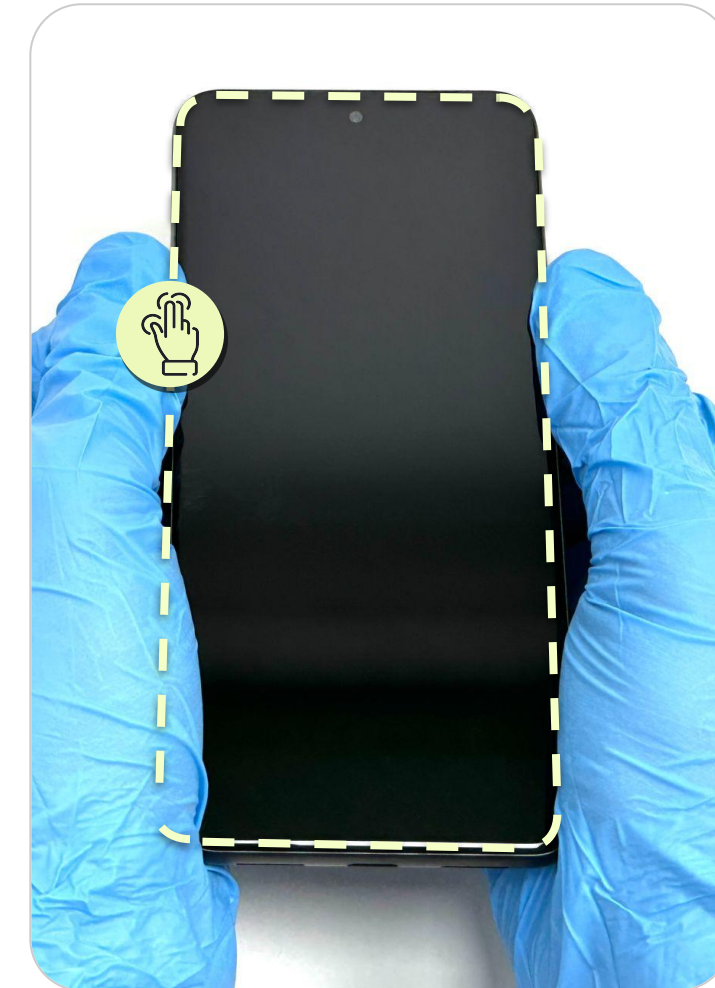
Prepare to press

- Set the device back in the **Pixel 8-Holder**.

- Put the **Pixel 8-CG Press Rubber** on top, followed by the **Universal Press Plate 12mm**.

- Place the stack on the **Universal Base**.

Align with the two pins. Make sure the rubber is firmly attached to the Display.

Universal-Press Plate 12mm

G940-00736-00-000

Face Up

USB

Pixel 8-Holder-#3-G980-16628-00-DOE3

CG Press Rubber

Universal-Press Plate 12mm

-G940-00736-00-0000

Universal-Base-#0-G980-14549-00-000

Universal Base

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   **Display**

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 197

Press in fixture

- Place the stack in the **Universal Press** and press the handle down for **30 seconds**.

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

⚠️ **Use Caution**

Pinch point.

Keeps hands clear during operation.

Enclosure   Mic 1 Bracket   Top Speaker   Logic Board   Battery   mmWave Module   Rear Camera   Front Camera   Bottom Speaker   Mid-frame   Graphite Sheet   **Display**

Pixel 8 Repair Manual v2.0   ®Google 2023 | Page 198

Pixel 8 Repair Manual

Troubleshooting

Connectors Location	Top Speaker	UDFPS
Power	Bottom Speaker	Rear Camera
Wireless Charge	Vibrator	Front Camera
Mic 1	Display	mmWave Module
Mic 2	NFC	
Mic 3	Proximity Sensor	

Connectors location

Location & Description	
A	Bottom Speaker Pad
B	P-sensor/Light Sensor
C	Front Camera Connector
D	Flam Board Connector(BIF Flex)
E	Display Connector
F	mmWave Connector
G	Battery Connector
H	USB Port
I	Vibrator Pad
J	Rear Camera Ultra Wide Connector
K	Rear Camera Main Connector
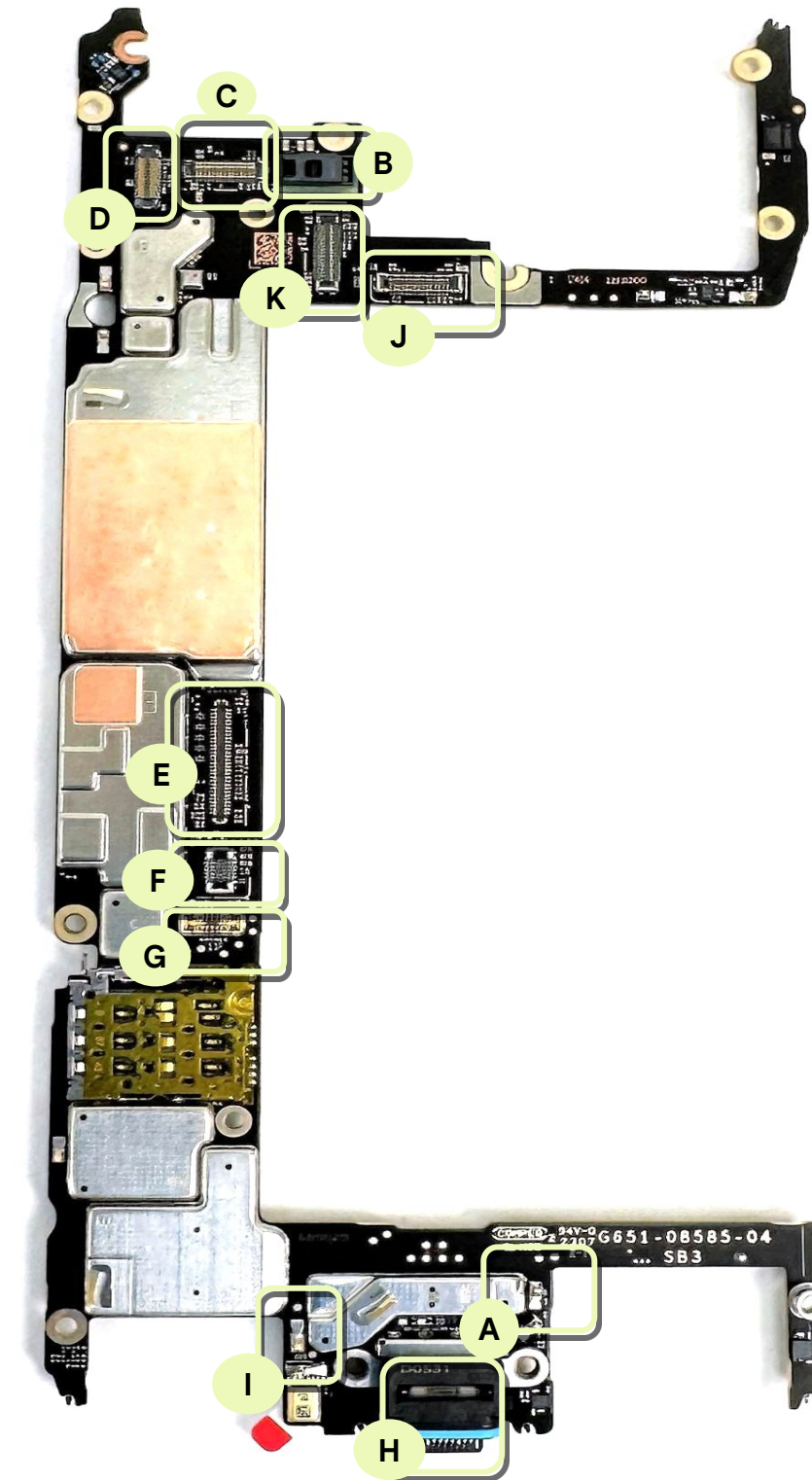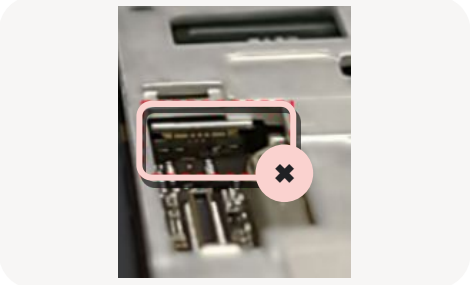
Connectors location
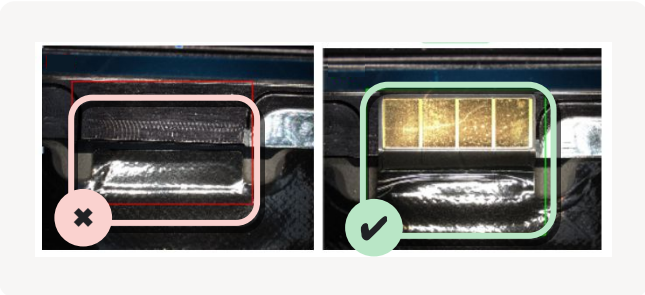
Location & Description	
L	Sidekey Pad
M	Wireless Charger & NFC Pad
N	Top Speaker Pad

Power

Symptom	Potential Root Cause	Procedure	
⚡ **T001:** Does not power on **T002:** Powers off suddenly **T004:** Wired charging failure **T053:** Battery damage **T054:** Battery draining fast **T083:** USB-C port corrosion **T084:** USB-C port damage **T085:** USB-C failure	Damage	• Inspect the USB-C connector for debris preventing charging. • Inspect the device for damage. • Check if the liquid damage indicators are activated.	
	Display	• Remove the **Display Module** and install a new one. • Charge for 10 minutes to see if the device can power on.	**Disassembly** • Display
	Connectivity issue	• Before removing the **Mid-frame**, visually check the connection status of the battery BTB. • Remove the **Mid-frame**, check if connectivity between **Battery connector** and **Logic board** are normal. If they are not fully connected, re-assemble and then retest.	Connectors Location
	Component issue	• Use a good **Battery** and **Logic Board** to cross check with the original ones. • Replace the defective component.	**Disassembly** • Logic board • Battery

Wireless Charge

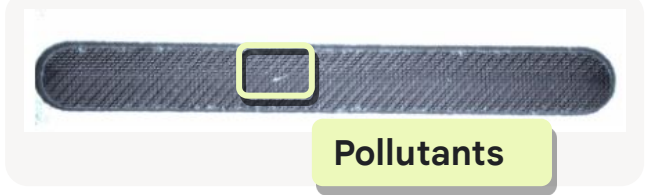| Symptom	Potential Root Cause	Procedure	
T003: Wireless charging failure	Connectivity issue	- Check the contact condition between Wireless Charger and Pin contact pads. If there is no mark on the pin contact pads, it shows poor connectivity. - If marks are observed, clean the contact pad and test again. - Check if connectivity between **Wireless Charger, NFC Pad,** and **Logic Board** are normal. - If they are not fully connected, re-assemble and then retest.	Connectors Location
	Component issue	- Use a good **Enclosure** and **Logic Board** to cross check with the original ones. - Replace the defective component.	Disassembly - Logic board - Enclosure

Mic 1

Symptom	Potential Root Cause	Procedure	
T010: Mic 1 - no sound **T011:** Mic 1 - low sound **T012:** Mic 1 - distorted sound	Mesh not clean	• Use a microscope and check the mesh for damage or blockage **(Fig 1).** • Clean the mesh and then test the audio again.	**(Fig 1)**
	Assembly Problem	• Disassemble the device, check Mic 1 bracket is fully seated. • Check if the MLB Mic 1 protective liner is removed **(Fig 2)**. If not, go to the next step. • Test audio again.	**(Fig 2)**
	Component issue	• Check the **Mic 1 Bracket** for delamination at the PET corner at the bottom **(Fig 3)**. • Use a good **Mic 1 Bracket** and **Logic Board** to cross check with the original ones. • Replace the defective component.	**(Fig 3)**
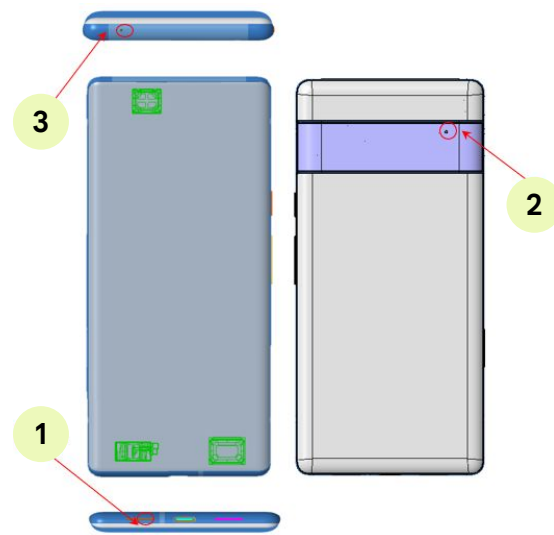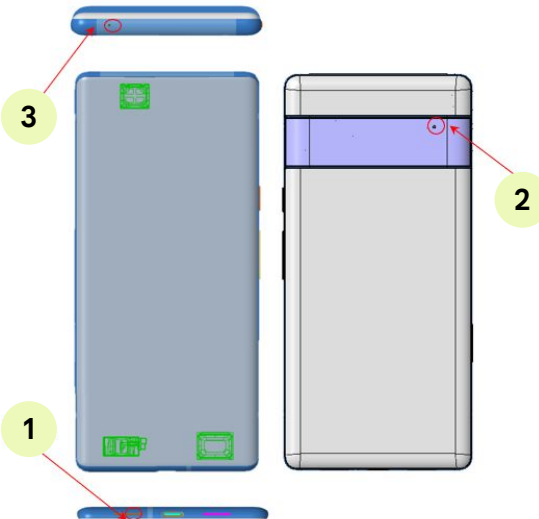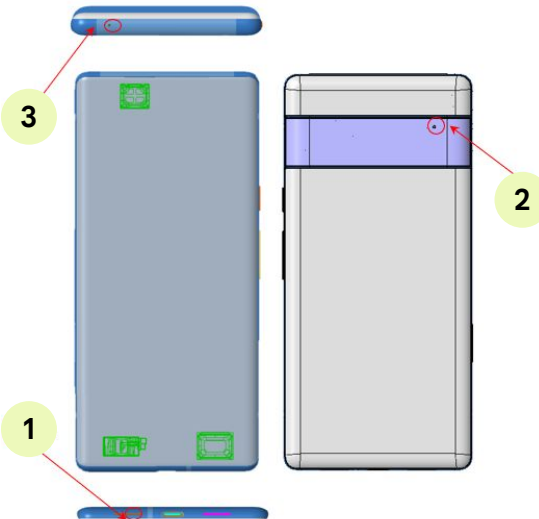
1   Mic 1

2   Mic 2
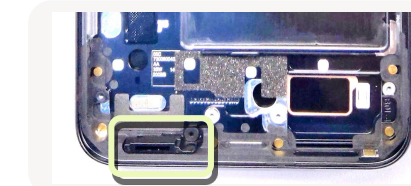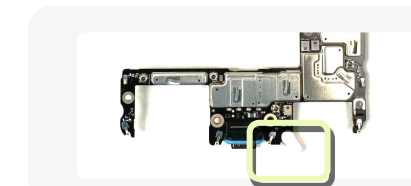
3   Mic 3

Disassembly

• Logic board

• Mic 1 bracket

Mic 2

Symptom	Potential Root Cause	Procedure	
T013: Mic 2 - no sound T014: Mic 2 - low sound T015: Mic 2 - distorted sound	Connectivity issue	• Check if the connectivity between the **Flam Board Connector** and **Logic Board** are normal. • If they are not fully connected, re-assemble and then retest.	Connectors Location
	Component issue	• Use a good **Enclosure** and **Logic Board** to cross check with the original ones. • Replace the defective component.	**Disassembly** • Logic board • Enclosure

1 Mic 1

2 Mic 2

3 Mic 3

Mic 3

Symptom	Potential Root Cause	Procedure	
T016: Mic 3 - no sound **T017:** Mic 3 - low sound **T018:** Mic 3 - distorted sound	Connectivity issue	• Check if the connectivity between the **Flam board connector** and **Logic board** are normal. • If they are not fully connected, re-assemble and then retest.	Connectors Location
	Component issue	• Inspect whether the Mic 3 component is damaged. • Use a good **Enclosure** and **Logic board** to cross check with the original ones. • Replace the defective component.	**Disassembly** • Logic board • Enclosure

1 Mic 1

2 Mic 2

3 Mic 3

Top Speaker

Symptom	Potential Root Cause	Procedure	
T019: Top Speaker no sound T020: Top Speaker low sound T021: Top Speaker distorted sound	Mesh not clean	• Inspect the **Top Speaker Mesh** and use a soft **ESD Brush** to remove any debris. • Test the audio again.	
	Internal debris	• If sound quality is still poor, inspect the mesh and speaker with a **Microscope**. • Disassemble the device and inspect the speaker. Use an ionizing air fan to remove any debris and then test the audio again.	
	Connectivity issue	• Check if connectivity between the **Top SPK Pad** and **FLAM Board** are normal. • If they are not fully connected, re-assemble and then retest.	Connectors Location
	Component issue	• If sound quality is still poor, use a good **Top Speaker** and **Logic Board** to cross check with original ones • Replace the defective component.	**Disassembly** • Logic board • Top Speaker

Bottom Speaker

Symptom	Potential Root Cause	Procedure	
 T023: Bottom Speaker no sound T024: Bottom Speaker low sound T025: Bottom Speaker distorted sound	Mesh Problem	• Visually inspect the exterior of the phone. Check for pollutants on the mesh of the **Bottom Speaker** port. Use a soft **ESD Brush** to remove any debris. • Test audio again.	 Pollutants
	Internal debris	• If the sound quality is still poor, inspect the mesh and speaker with a **Microscope**. • Disassemble the device and inspect the speaker. Use an ionizing air fan to remove any debris and then test the audio again.	
	Connectivity issue	• Check if connectivity between the **Bottom SPK Pad** and **Logic Board** are normal. • If they are not fully connected, re-assemble and then retest.	Connectors Location
	Component issue	• If sound quality is still poor, use a good **Bottom Speaker** and **Logic Board** to cross check with original ones • Replace the defective component.	**Disassembly** • Logic board • Bottom Speaker

Vibrator

Symptom	Potential Root Cause	Procedure	
 T026: Vibrator failure	Connectivity issue	• Check the Vibrator Pad between the Logic Board and Mid-frame. • Test the vibrator again.	Connectors Location
	Component issue	• Use a good Mid-frame and Logic Board to cross check with the original ones. • Replace the defective component.	**Disassembly** • Logic board • Mid-frame

Display

Symptom	Potential Root Cause	Procedure	
  □ **T027:** Display blank **T028:** Display dead pixel, dark spots or foreign material	Damage	Inspect 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 **T032:** Display flickering/abnormal	Connectivity issue	• Check if connectivity between the **Display Connector** and **Logic Board** are normal. • If they are not fully connected, re-assemble and then retest.	Connectors Location
T033: Display image quality **T034:** Display color mura **T035:** Display light leakage **T036:** Display backlight issue **T037:** Display shadow **T038:** Display permanent burnin **T039:** Display temporary burnin	Dead pixels Distorted Graphics Flickering Color issues	• Remove the **Display** module, test a replacement part (for testing purposes only: it is suggested to do this without removing the release liner). • If issue is resolved, apply the adhesive and install the new **Display**.	**Disassembly** • Display

Display-continued

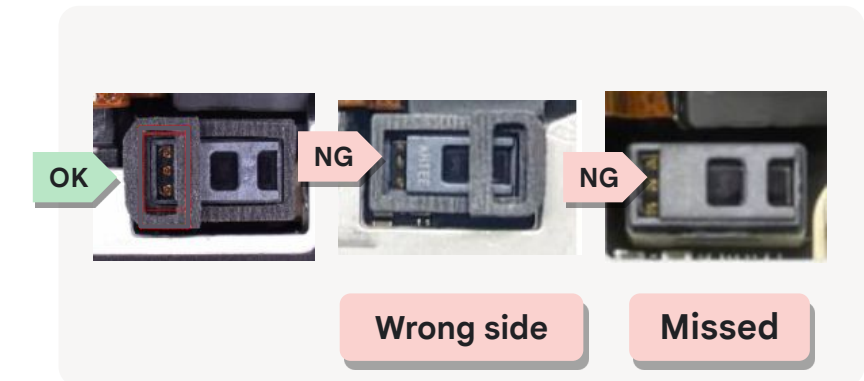| Symptom	Potential Root Cause	Procedure	
▢ **T040:** Display single crack **T041:** Display multiple cracks **T043:** Display cosmetic defects **T044:** Multi-touch poor response **T045:** Multi-touch no response **T046:** Multi-touch erratic response	Touch screen Fingerprint sensor	• Remove the **Display** module, test a replacement part (for testing purposes only: it is suggested to do this without removing the release liner). • If issue is resolved, apply the adhesive and install the new **Display**.	**Disassembly** • Display
	Component issue	• Use a good **Display** and **Logic Board** to cross check with the original ones. • Replace the defective component.	**Disassembly** • Logic board • Display

NFC

Symptom	Potential Root Cause	Procedure	
 ⦆)) **T051:** NFC connectivity Issues	Connectivity issue	• Check the contact condition between the WC and Pin contact pads. If there is no mark on the pin contact pads, it shows poor connectivity. • If marks are observed, clean the contact pad and test again. • Check if the connectivity between the **WC, NFC Pad,** and **Logic Board** are normal. • If they are not fully connected, re-assemble and then retest.	Connectors Location
	Component issue	• Use a good **Enclosure** and **Logic board** to cross check with the original ones. • Replace the defective component.	**Disassembly** • Logic board • Enclosure

Proximity Sensor

Symptom	Potential Root Cause	Procedure	
  T059: Proximity sensor failure	Assembly issue	Check the P-sensor Grommet is installed correctly.	**Assembly** • P-sensor grommet status
	Component issue	• Disassemble and check the appearance of the Proximity sensor to ensure there is no abnormality. • Use a good **P-sensor Grommet** and **Logic Board** to check. • Replace the defective component.	**Disassembly** • Logic board • Mid-frame(P-sensor grommet)

UDFPS

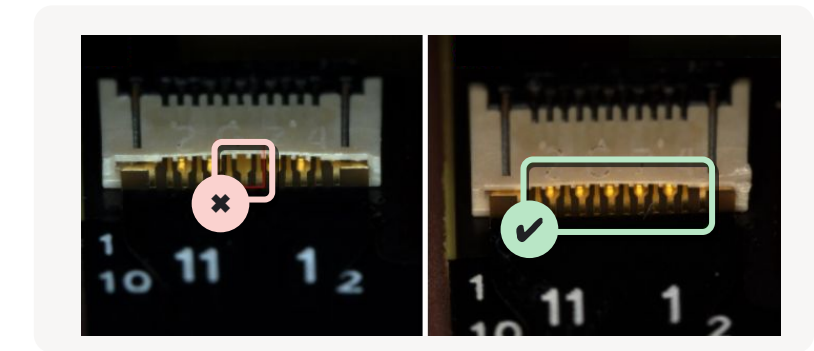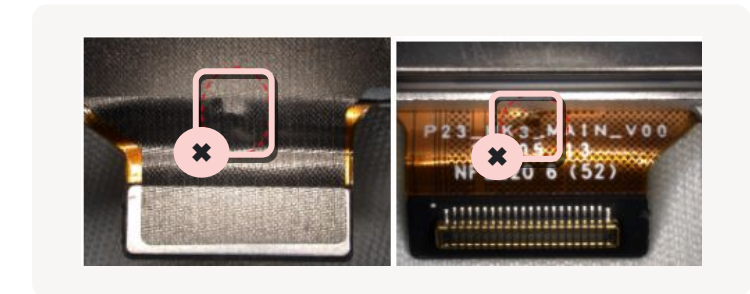| Symptom	Potential Root Cause	Procedure	
  T064: Fingerprint sensor failure	Interference Issue	Remove any screen protector prior to display function testing.	
	Damage	Inspect display for damage and replace if necessary.	
	Connectivity issue	- Check if connectivity between the Display connector and Logic board are normal. - Check if connectivity between the **Display Flex Connector** and **UDFPS** are normal. - If they are not fully connected, re-assemble and then retest.	Connectors Location
	Component issue	- Use a good Display and Logic board to cross check with original ones. - Replace the defective component.	**Disassembly** - Logic board - Display

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:** Cannot switch between cameras **T079:** Camera damage **T111:** Main RCAM crashes **T112:** UW RCAM crashes **T114:** Main RCAM no preview **T115:** UW RCAM no preview **T116:** Ultrawide Rear Camera Photo quality **T117:** Ultrawide Rear Camera video quality	Damage	Inspect the **Display** and camera(s) for damage.	
	Connectivity issue	• Check if connectivity between the **Rear Camera Connector** and **Logic Board** are normal. • If they are not fully connected, re-assemble and then retest.	Connectors Location
	Image quality	• Remove **Display Module**, connect a new **Rear Camera** to test. • If issue is resolved, proceed with the **Rear Camera** replacement and assemble device. Some NG module cosmetic pictures are provided for reference.	**Disassembly** • Rear camera
	No image	If camera issue remains, replace the **Logic Board**.	**Disassembly** • Logic board

Front Camera

Symptom	Potential Root Cause	Procedure	
  T075: Camera Front Photo quality **T076:** Camera Front Video quality **T078:** Cannot switch between cameras **T079:** Camera damage **T110:** FCAM crashes **T113:** FCAM no preview	Damage	Inspect the **Display** and camera(s) for damage.	
	Connectivity issue	• Check if connectivity between the **Front Camera Connector** and **Logic Board** are normal. • If they are not fully connected, re-assemble and then retest.	Connectors Location
	Image quality	• Connect a new **Front camera** to test. • If issue is resolved, proceed with the **Front camera** replacement and assemble device.	**Disassembly** • Front Camera
	No image	If camera issue remains, replace the **Logic Board**.	**Disassembly** • Logic board

mmWave Module

Symptom	Potential Root Cause	Procedure	
  T105: 5G_low_med_band_failure **T106:** 5G_high_band_failure	Connectivity issue	• Inspect the **Mid-frame** and check **mmWave Flex** is properly seated. • Check if connectivity between the **mmWave Connector** and **Logic Board** are normal. • If they are not fully connected, re-assemble and then retest.	Connectors Location
	Component issue	• Connect a new **mmWave** to test. • If issue is resolved, proceed with the **mmWave** replacement and assemble the device. • If mmWave issue remains, replace the **Logic Board**.	**Disassembly** • mmWave • Logic board

Pixel 8 Repair Manual

Software

Software tools

Description	Documentation
Update or reinstall the software on Pixel devices *(see link for additional details)*	[LINK](#)