Fitbit Edge

Repair manual



Version 1.0, October 2026

Revision history

Version	Date	Change description
V1.0	October, 2026	First release



Welcome!

We are happy you are here.

At Google, we innovate, design, and build to create helpful and sustainable products.

Product longevity is important tous and repairability is part of that. Repair enables our products to stay in-use and out of landfills.



We’ve got your back

If you’ve questions about the repair,
or just need a hand, we’re always here to help.

support.google.com

We’ve simplified this guide into 4 sections.

Find what you need.



Precautions

Check out these important safety tips and recommendations before you dive into the repair.



Introduction

Review your product parts, tools, replacements, and glossary, before you begin work.



Disassembly

Follow the disassembly steps to safely take out your battery.



Assembly

Follow the assembly steps to reassemble your device.



Fitbit Edge repair manual

Precautions

Let’s keep it safe!

Before we get started, let’s protect you and your tech!

Keep these quick safety rules in mind to completely avoid risks like electric shock, fire, or device damage.



Examples of unsafe battery conditions



Suggested safety items here

General safety



Know the risks first

Before you grab your tools, read the full set of precautions in this document.

These precautions keep you safe from electric shocks, fires, device damage, and personal injury.

Prepare a safe workspace

Always work in a clean, well-ventilated area which is free from any combustible materials.

When you handle any damaged parts, wear protective gloves and safety glasses to protect yourself from stray debris.

Handle damaged parts carefully

Apply a protective film over damaged parts before you remove them to keep everything contained.

After you remove it, store the damaged part in the replacement packaging as soon as possible to prevent accidental injury.

Double check your work

When you assemble everything back together, make sure all screws are securely fastened.

Do a final sweep to ensure no extra screws or small parts are left floating around inside the device.

Battery handling



Discharge your device

Fully discharge the battery before you start your repair to minimize potential hazards.

Avoid physical damage

Never bend, dent, puncture, or pry the battery with tools. Damaged batteries are highly dangerous.

Prevent electrical shorts

Keep battery terminals isolated to prevent short-circuiting, which might trigger immediate overheating or fire.

Pack away old batteries in your replacement part packaging as soon as possible, and dispose of them according to your local regulations.

Manage thermal venting

Handle smoking or venting batteries as soon as possble with gloves and tongs to place it in a fire-safe container, or completely bury it in the sand.

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Introduction

Fitbit Edge: replacement parts

Make sure to purchase these parts before you start the repair.

Battery module

G949-019XX-00



Battery screws

G250-08563-00



Back side housing screws

G250-08804-00

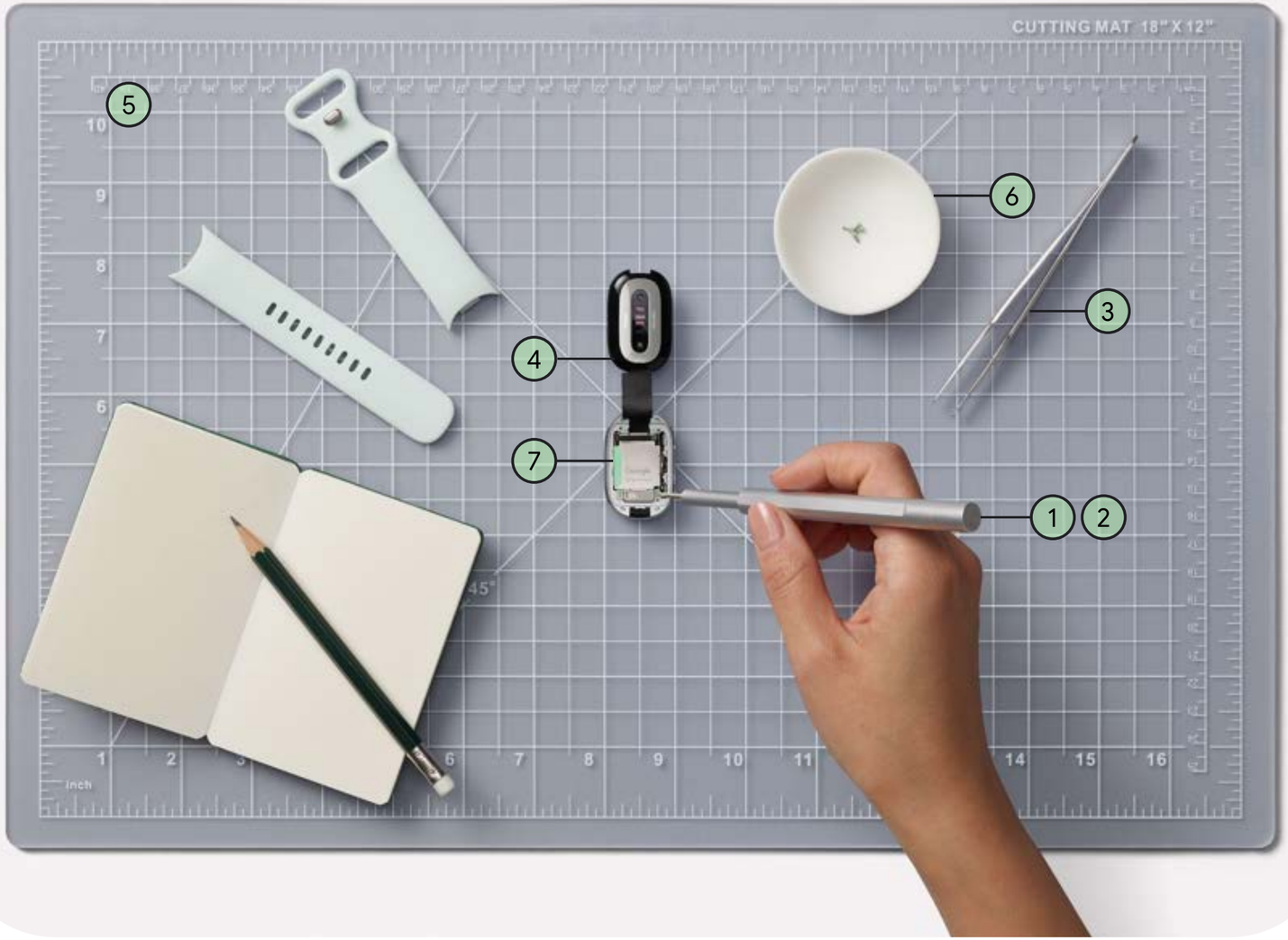


⚠ **Note: These parts should be used only once.** Replace them with new parts whenever they're removed from the device.

We recommend to prepare your workspace before you start a repair

Ensure that you have (1) **1IP and** (2) **2IP torx screwdrivers**, and (3) an **electrostatic discharge (ESD) tweezers**. Place the (4) **device** on the worksurface.

Make sure your workspace is (5) **clean.** Place (6) **a small bowl** nearby to help organize screws and small parts and have your (7) **replacement battery** ready.

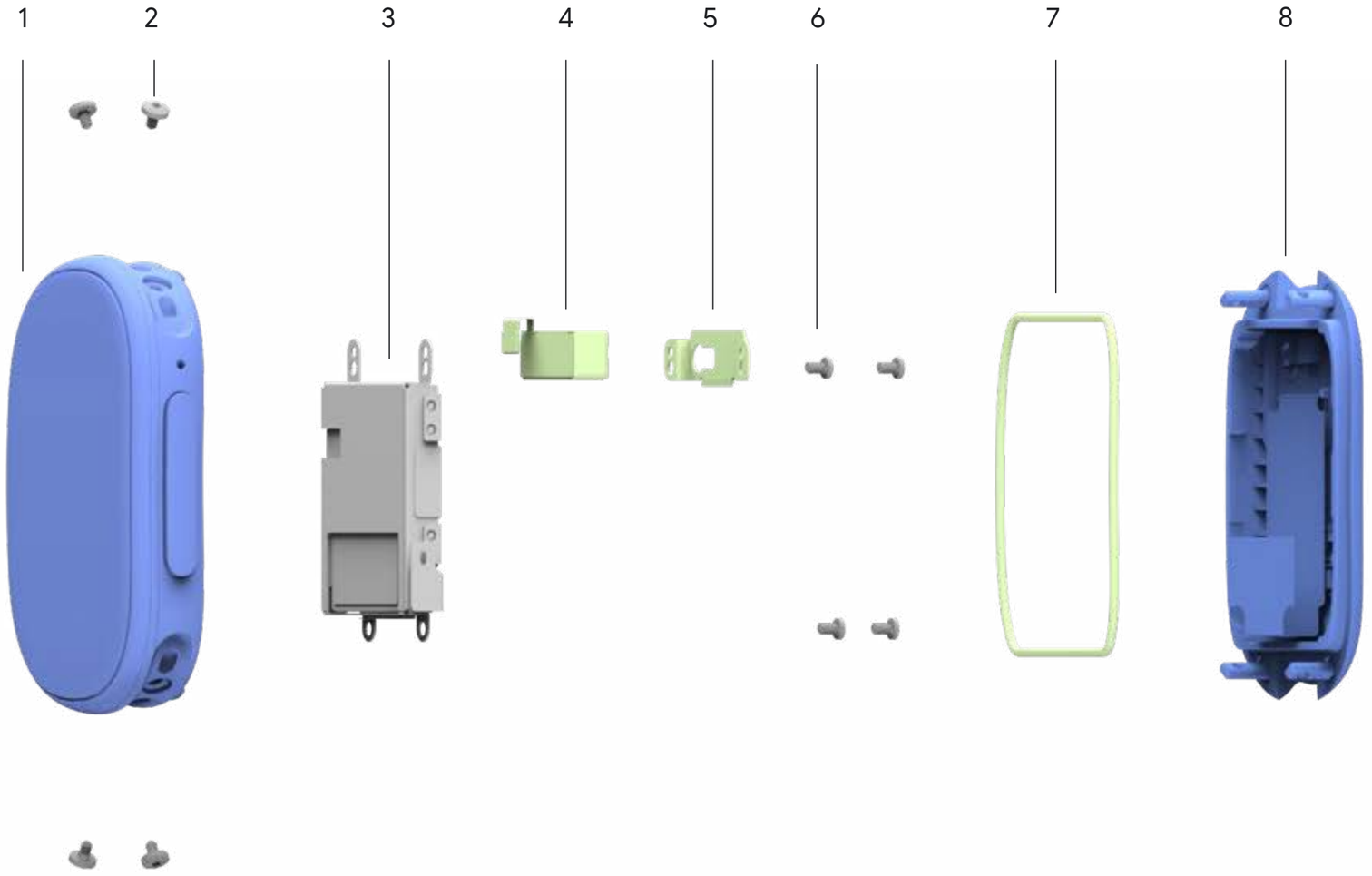


Fitbit Edge: expanded view

Reuse indication
- Reusable without cleaning
- Reusable with cleaning
- Not reusable after disassembly

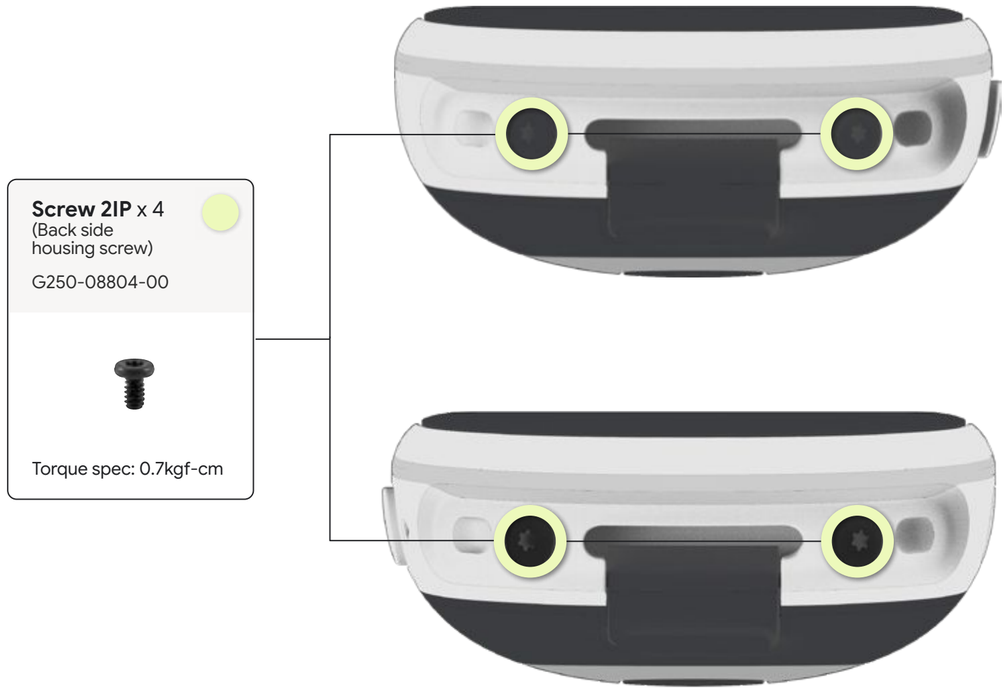
Fitbit Edge part ID

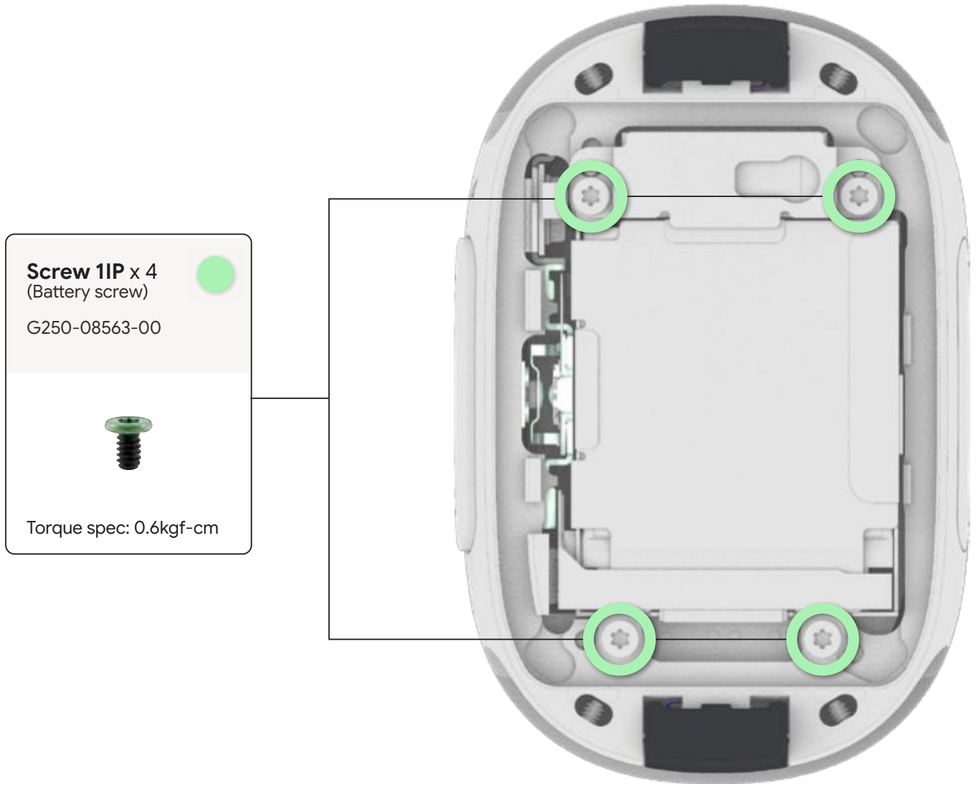
1	●	Housing
2	●	4x housing screws
3	●	Battery module
4	●	Vibrator
5	●	Vibrator bracket
6	●	4x battery screws
7	●	Back side housing O-ring
8	●	Back side housing module



Screw map

These are the screws used in the Fitbit Edge.





⚠ **Note: Screws should be used only once.** Replace with a new screw whenever they're removed from the device.

Turning Fitbit Edge on or off

Turn screen off and back on

To turn on a device when it's powered off, press and hold the crown button for a few seconds until the G logo appears.

To power off the device when it's turned on, select power off in the settings menu on the screen.

Restart or reboot

To restart the device, select **Restart** in the Settings menu on the screen.

Electrostatic discharge (ESD) protection

Electrostatic discharge (ESD) could damage components, so it's important to work in an ESD-safe environment during repair. Follow these four steps to stay ESD safe.

Stay grounded

Carry out repairs on an ESD mat. The person who repairs the device should wear a grounded ESD strap.

Avoid static buildup

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

Protective bags

Pack all ESD-sensitive parts in metalized protective bags during shipping.

Avoid to touch pins

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

Did you know? Electrostatic discharge (ESD) is the sudden flow of electricity through two electrically charged objects. For example, ESD is a shock you feel when you walk on a carpet, and then touch a metal door handle.

Glossary

Acronym or term	Definition
Electrostatic discharge (ESD)	The sudden flow of electricity through two electrically charged objects.
Flexible printed circuit (FPC)	A type of low profile and flexible printed circuit.
Multi-layered board (MLB)	It is like a high-tech electronic lasagna that stacks multiple floors of microscopic wiring inside a single, ultra-thin sheet, allowing gadgets like smartphones to be incredibly small, fast, and powerful without short-circuiting.
Board to board (BTB)	A board-to-board connector is like a tiny, high-tech LEGO plug that securely snaps two separate internal circuit boards together so they can instantly share power and data inside gadgets like your smartphone.
The Housing (HSG module)	The housing that contains the buttons and provides protection for the logic board and other components.
Back side housing (BSH)	A biosensor is an analytical device, used for the detection of a chemical substance, that combines a biological component with a physicochemical detector.
Vibrator	A vibrator is a mechanical device to generate vibrations. The vibration is often generated by an electric motor with an unbalanced mass on its driveshaft.

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Disassembly

Battery replacement only

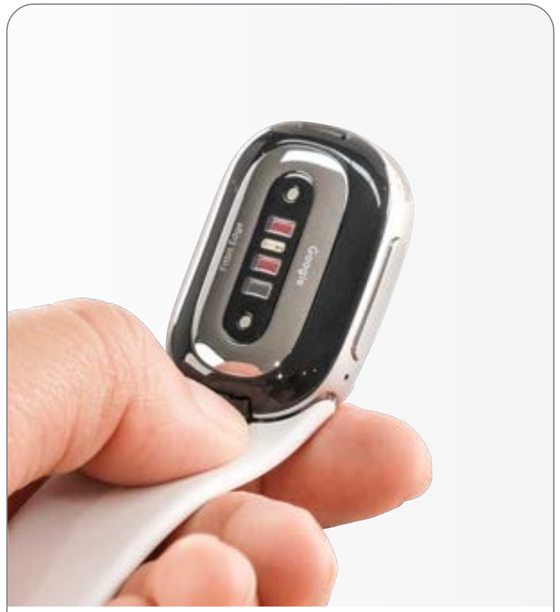
Remove the band



Step 1: hold the back of the device toward yourself.



Step 2: remove the watch bands with the latch on the bottom of the device.



Step 3: repeat this step on the other side of the device.



Step 4: as you've removed the bands, move on to disassemble the watch.

Remove the screws from the back side housing



Step 5: use a **2IP screwdriver** to remove the 4 back cover fixing screws, and discard the removed screws.



Step 6: ensure to put the screws in a **safe spot** after you remove them (in a small dish or a magnetic mat).

⚠ **Note:** *Don't* reuse the screws.

Open the back side housing



Step 7: hold and orient the part so the third window from the top is white and facing you, and find the small, raised bar where the band connects. Either side can face up.



Step 8: press the band button up firmly to open a gap.



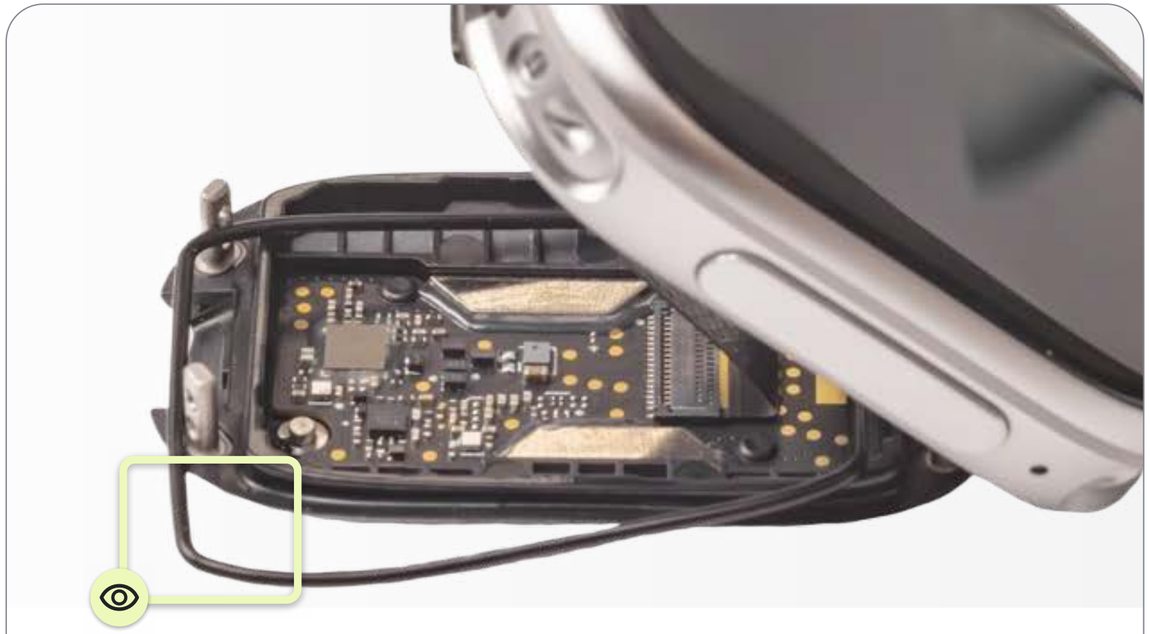
Step 9: while the gap is open, use your finger to separate the back side housing.



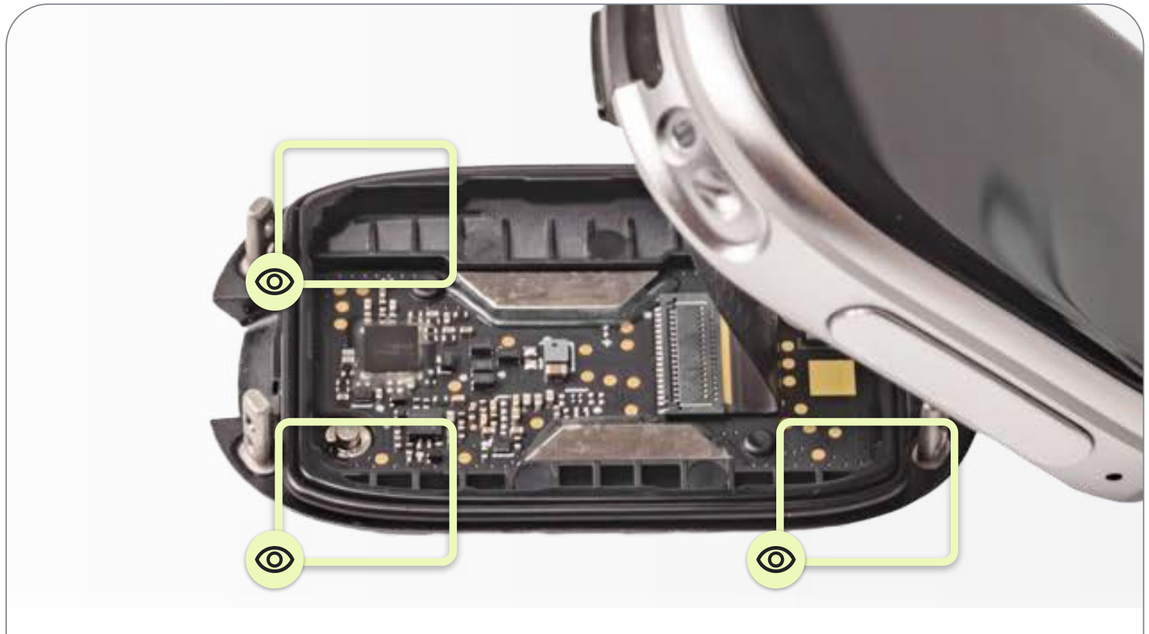
Step 10: open the other side at the other band button the same way as the previous steps.

⚠ **Use caution:** The back side housing is connected to the device logic board with a flex cable. **Avoid excessive force** and ***don't*** **disconnect the flex cable**.

Check the back side housing O-ring



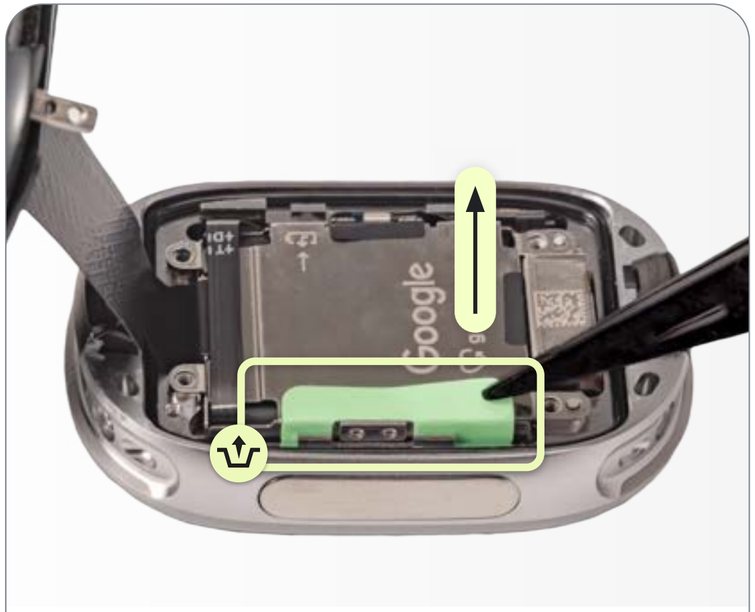
Note: The back side housing O-ring may fall off during the disassembly process. Refer to the **O-ring reassembly steps** provided in the following O-ring section.



Note: Before the next steps, the back side housing O-ring should be in places as shown in the figure.

⚠ **Use caution:** After you open the back side housing, place the product naturally and do not excessively open the back side housing. Avoid applying force that might cause tearing.

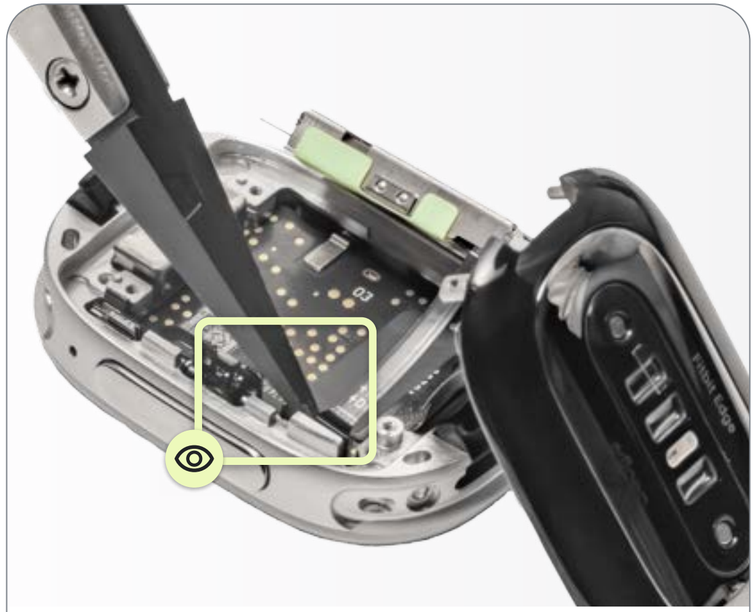
Disassemble the battery



Step 11: hold the housing with the left hand and use **tweezers** to lift the battery from the battery screw insertion point.



Step 12: carefully remove the battery from the battery compartment with **tweezers**. Handle with care and avoid pulling on the board-to-board connector or flexible printed circuit.



Step 13: use **tweezers** to gently disconnect the battery board-to-board connector from the main board. After that's disconnected, you're ready to start the assembly steps.

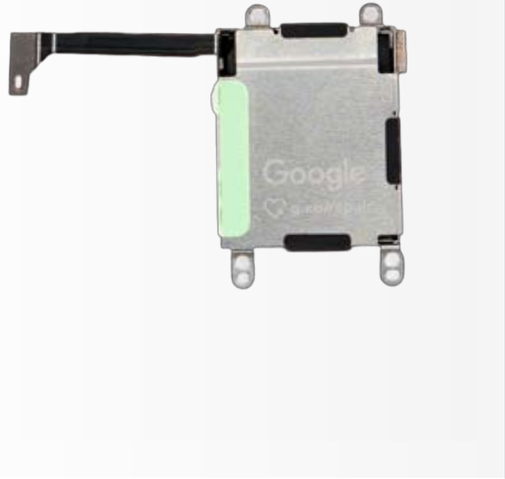
⚠ **Use caution:** Be careful to avoid damage to the components on the back side housing.

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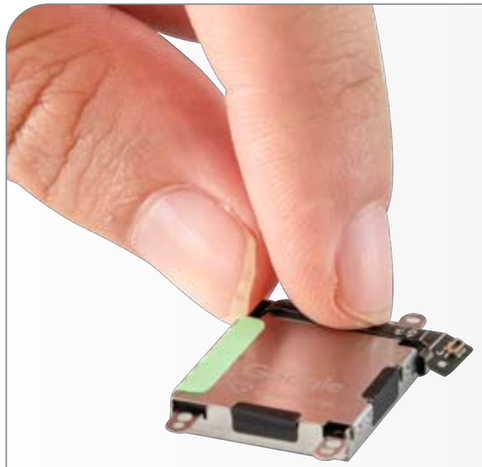
Assembly

Battery replacement only

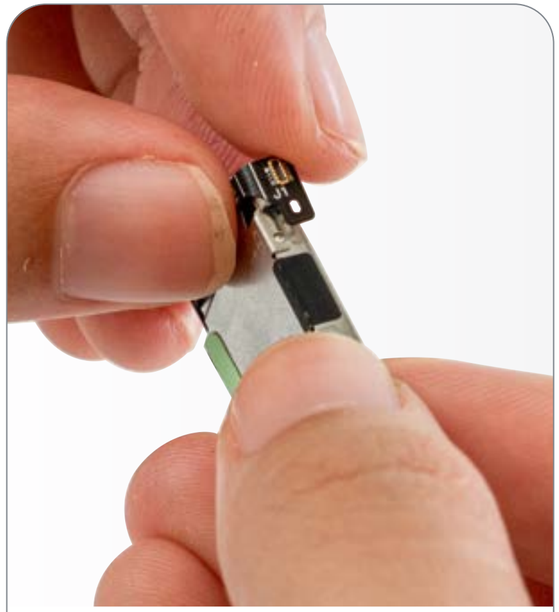
Prepare the battery module



Step 1: get the battery from the packing bag.



Step 2: hold the bottom of the battery and secure it so it doesn't move. Use your fingertips to gently bend the flexible printed circuit towards the battery side.



Step 3: gently bend the board-to-board connector from the foam side attached to the battery.



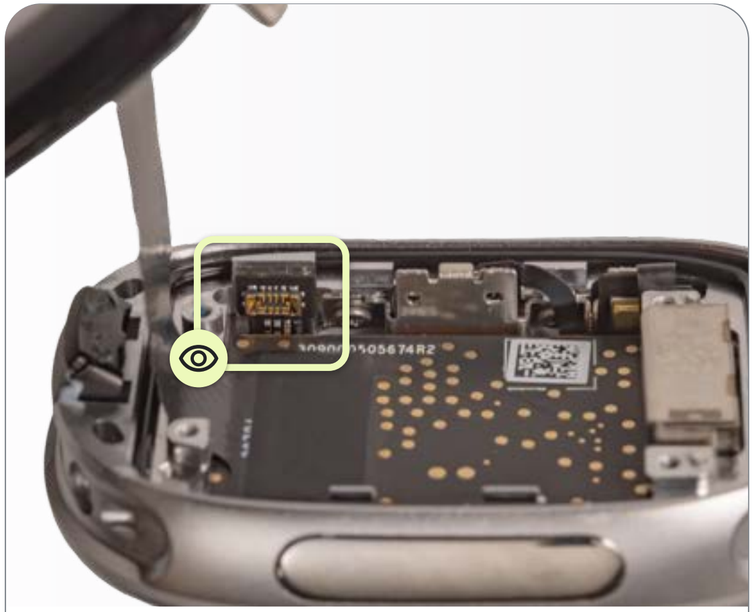
Step 4: with the battery prepared, move on to the next step.

⚠ **Use caution:** *Don't* use your fingernails to scrape or press the flexible printed circuit; Use the pads of your fingers only.

Find the two brass metal connection points

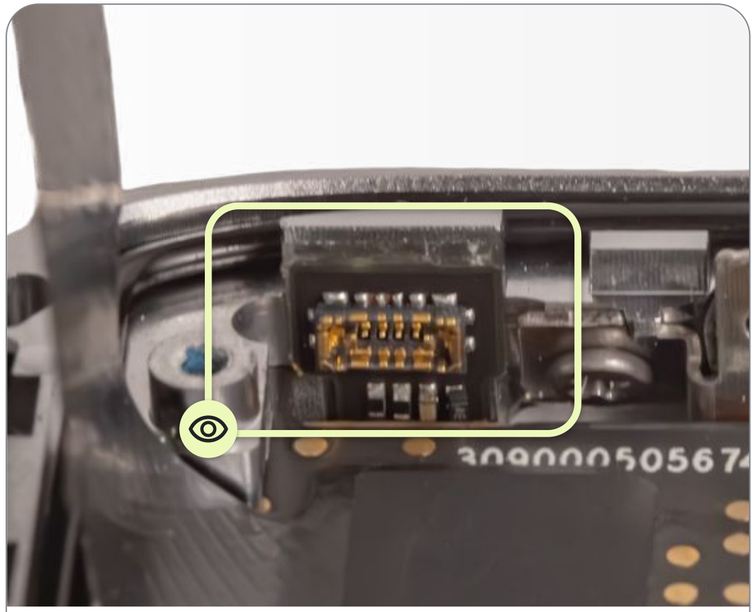


Step 5: take note of the new battery cable's connector.



Step 6: take note of the connector port on the side wall of the enclosure.

These two parts will be connect in the next step.

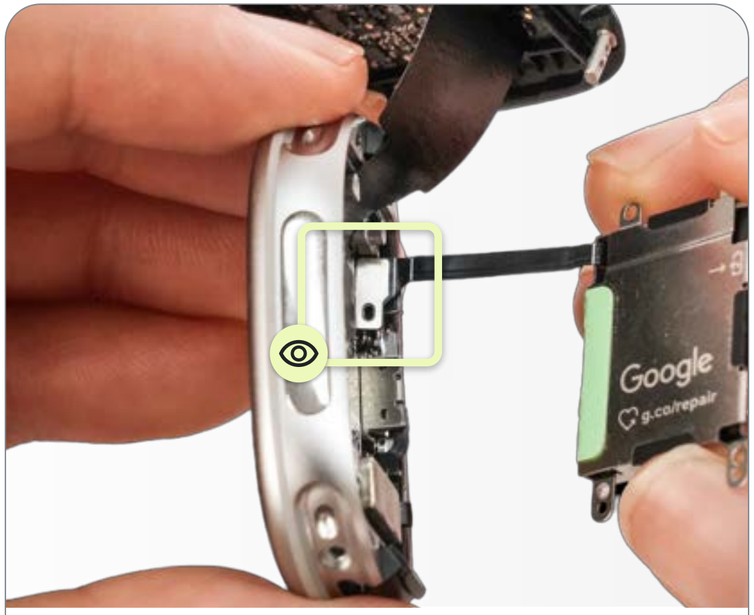


Close up view of the connector port.

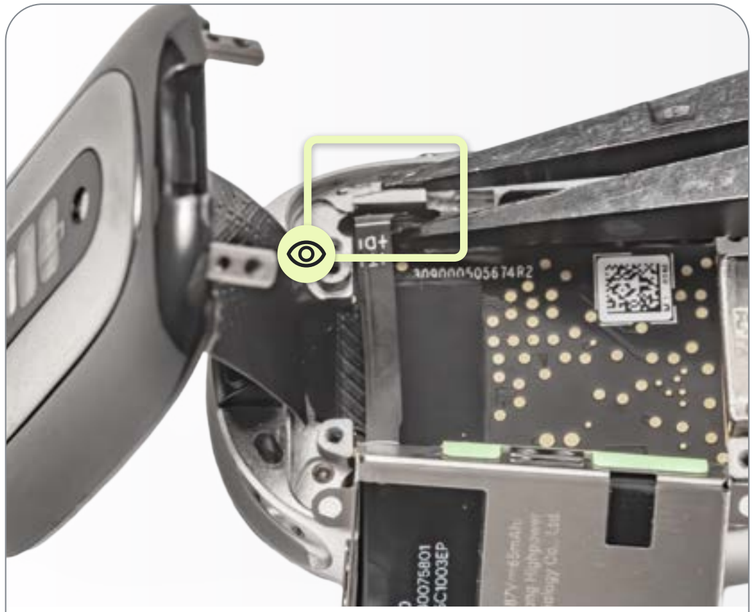
Connect the battery board-to-board



Step 7: rotate device to the side as shown in the figure.



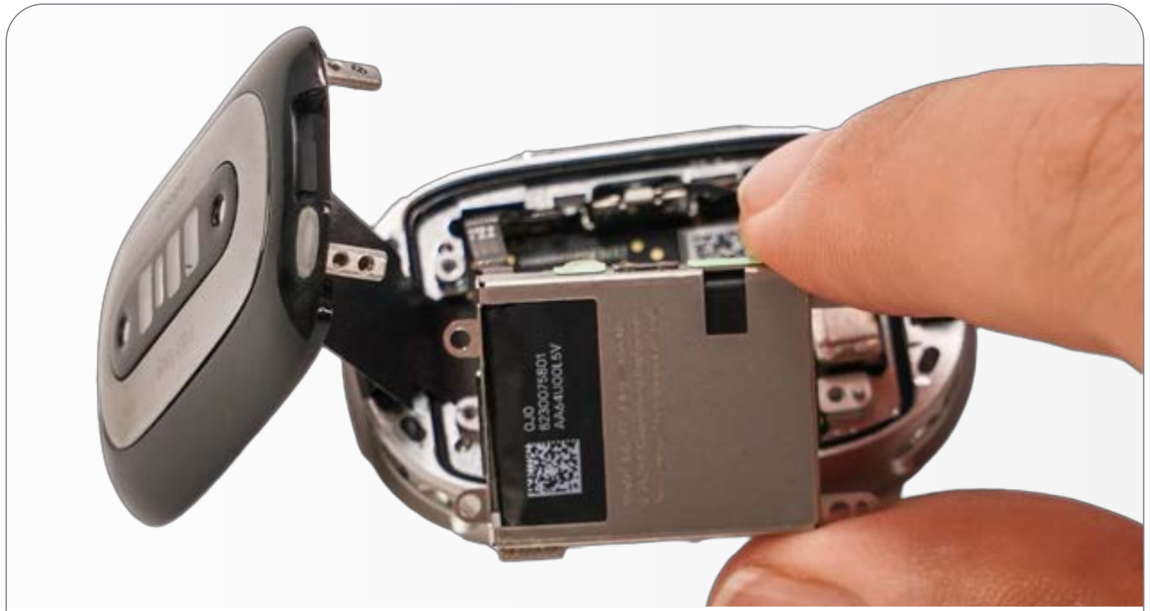
Step 8: take the battery, align the battery board-to-board connector with the multi-layered board-to-board connector.



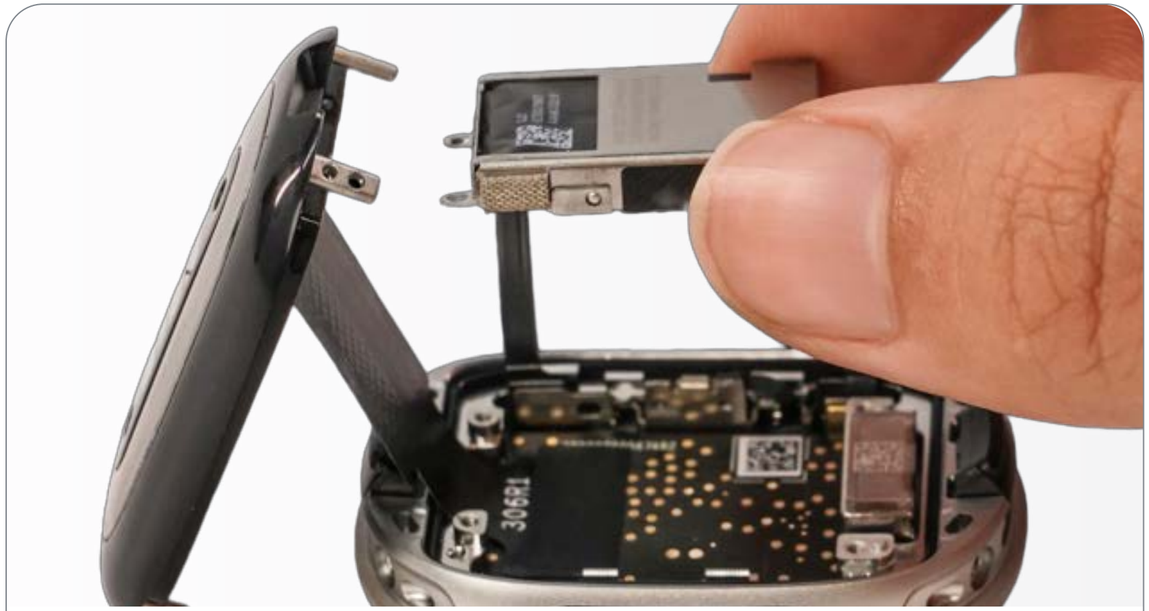
Step 9: use **tweezers** to gently snap the battery board-to-board connector onto the mainboard.

⚠ **Use caution:** *Don't* let the tweezers contact the housing to avoid component scratches.

Assemble the battery into the housing (1/2)



Step 10: hold the battery carefully with your thumb and index finger.



Step 11: bring the battery above the housing.

⚠ **Use caution:** The battery flexible printed circuit should fold gently and carefully.

Assemble the battery into the housing (2/2)



Step 12: pick up the battery, flip the side without the board-to-board connector cable into the housing.



Step 13: continue to flip the battery until it's underneaththe battery board-to-board connector cable.



Step 14: assemble the battery into the housing.

⚠ **Use caution:** The battery flexible printed circuit should fold gently and carefully.

Install the vibrator bracket and tighten the screws



Step 15: use **tweezers** to position the vibrator bracket in place.



Step 16: use a **1IP screwdriver** to tighten the two screws on the vibrator bracket.



Step 17: tighten the last two battery screws, and make sure that all four are present and securely fastened.

⚠ **Use caution:** *Don't* let the tweezers contact the housing to avoid component scratches.

Assemble the back side housing



Step 18: ensure the logo is visible and the connector cable runs smoothly across the top of the battery. If everything looks right your battery is successfully in place.



Step 19: insert the four hooks on the back side housing into the corresponding holes on the housing.



Step 20: press the back side housing downward to assemble it onto the housing. Listen for a **light snap** to confirm they are locked in.

Note: If the back side housing O-ring is off before assembling the back side housing, refer to the **O-ring reassembly steps** to reassemble the back side housing O-ring first.

Assemble the back side housing screws



Step 21: assemble the 4 Back Side Housing screws for one side of pebble with a **2IP screwdriver**.

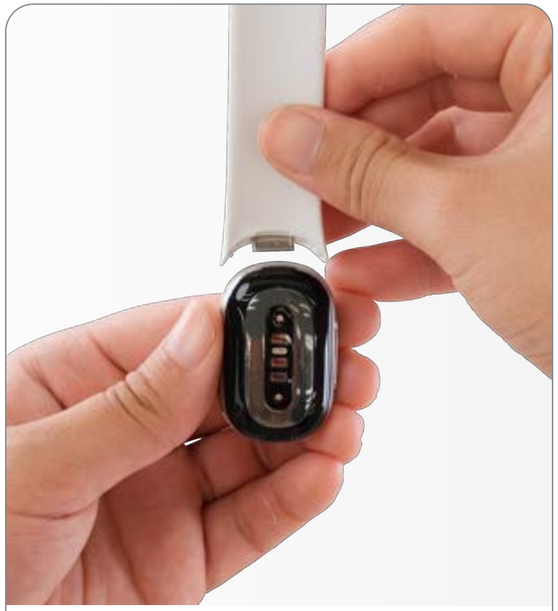


Step 22: repeat this process for the screws on the other side of the pebble.



Step 23: when all four screws are secured, you're ready for the final step.

Final step: assemble the band to the device



Step 24: place the device with the side button facing your right. Position the watch band component with the metal buckle at the top of the product.



Step 25: insert the band into the product.



Step 26: get the other band and repeat the previous step for the other side.



Step 27: strap it on and the replacement of your battery is successful.

⚠ **Use caution:** Be careful to avoid damage to the components on the back side housing.

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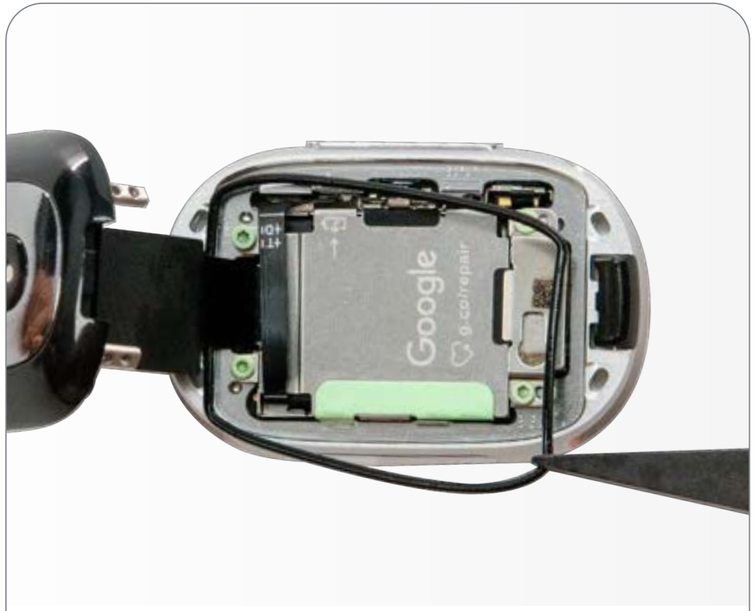
Appendix

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Back side housing O-ring

The back side housing O-ring may fall off during the disassembly process. Refer to the **O-ring reassembly steps** provided in the next two pages. After the O-ring is transferred back to the back side housing, return to the **battery disassembly process** to continue the next steps.

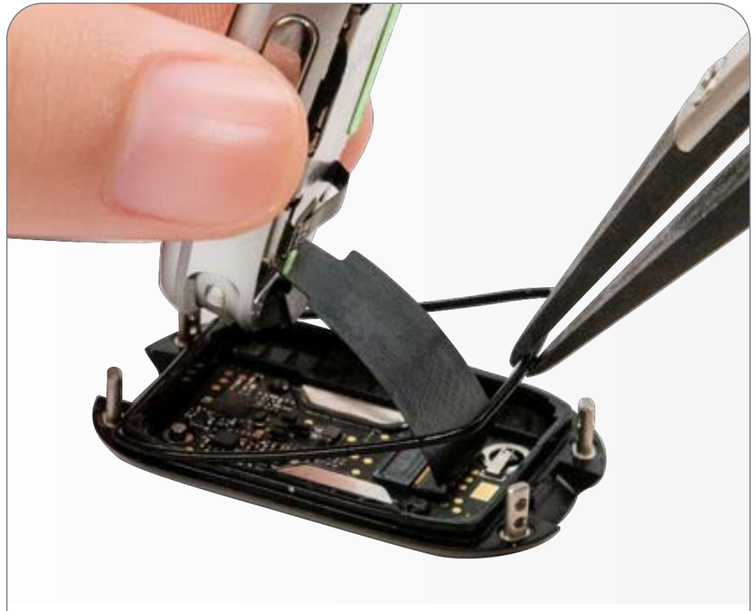
Transfer the O-ring from the housing to the back side housing



Step 1: gently grasp the O-ring with tweezers and lift it free from the housing to avoid scratches on the surface.



Step 2: carefully carry the part with tweezers and guide it toward the back side housing.



Step 3: flip the back side housing and gently lower the back side housing.

⚠ **Use caution:** *Don't* open the back side housing. Avoid applying force that might cause tearing.

Fit the O-ring securely inside the back side housing

Finished? Return to the battery disassembly process ➔



Step 4: start from the upper-left corner indicated by the arrow, place the O-ring into the O-ring groove, and press it into the groove clockwise, seating it into the four corners sequentially.



Step 5: if the O-ring lifts up or isn't fully seated in the groove, use tweezers to gently adjust until the O-ring is fully seated in the groove.



Step 6: as shown in the figure, if the O-ring sits below the back side housing step surface, the O-ring installation is considered correct. Return to the **battery disassembly process** to continue the next steps.

⚠ **Use caution:** *Don't* open the back side housing. Avoid applying force that might cause tearing.

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.

Return to precautions →

Dust-free cloth



Anti-static electrostatic discharge (ESD) gloves



Electrostatic discharge (ESD) finger cots



Safety items

Get ready before you start. Keep these essential safety items ready, to keep yourself protected and secure your workspace throughout the repair.

Safety glasses



Heat resistant protective gloves



Cut resistant protective gloves



Nitrile or lint-free gloves



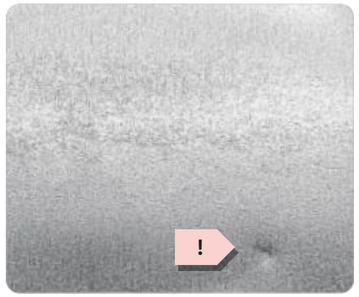
Sand bucket



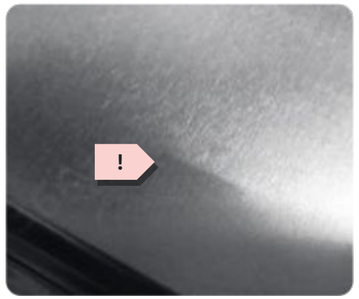
Use caution ⚠

Return to precautions ➜

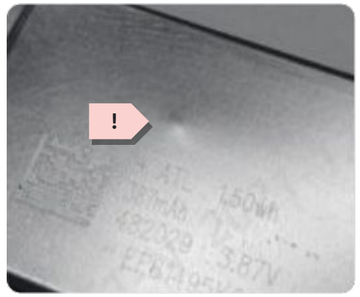
Examples of unacceptable battery conditions that aren't suitable for repair *



Dent



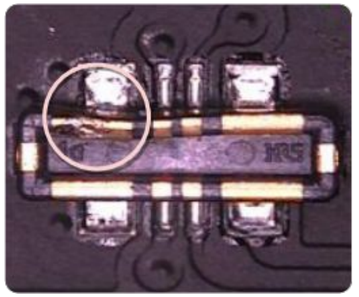
Line protrusion



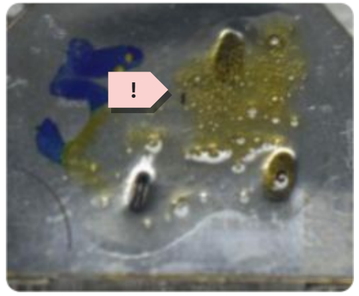
Protrusion (dot)



Contamination mark



Connector metal deformation



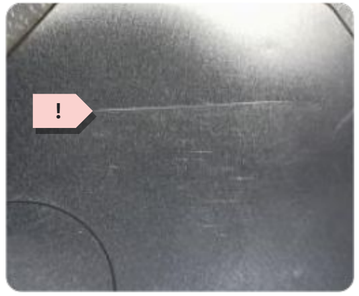
Electrolyte leakage



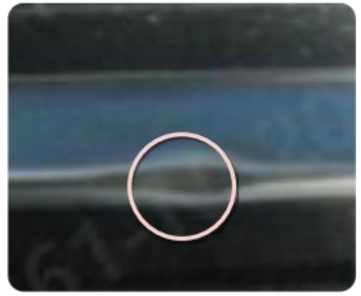
Deformation



Scratch



Scratch



Dent corner side

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