Google Pixel 6 Fingerprint Reader Replacement

This repair guide was authored by the iFixit...

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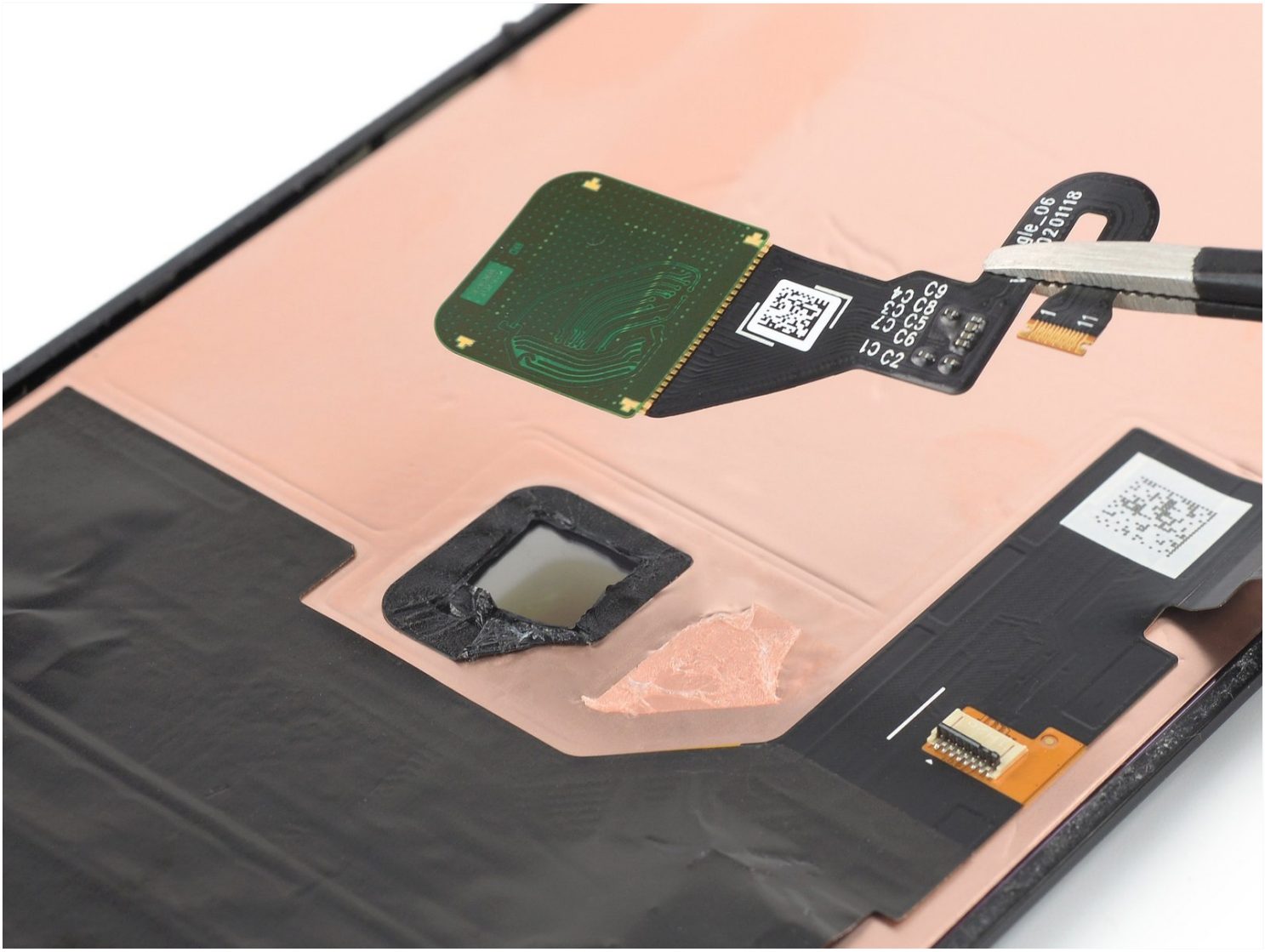


INTRODUCTION

This repair guide was authored by the iFixit staff and hasn't been endorsed by Google. Learn more about our repair guides here.

Use this guide to replace the fingerprint reader in your Google Pixel 6.

If you replace the fingerprint reader in the Pixel 6 or switch it between two different displays, you need to recalibrate it to maintain its functionality.

Warning: The replacement of the fingerprint reader in the Google Pixel 6 is not complicated, but the screen can get damaged very easily during the removal procedure.

Caution: The Pixel 6 contains class 1 lasers. Disassembly could result in exposure to invisible infrared laser emissions.

Retaining water resistance after the repair will depend on how well you reapply the adhesive, but your device will lose its IP (Ingress Protection) rating.

You'll need replacement adhesive to reattach components when reassembling the device.

Note: Replacement fingerprint sensors are not available for sale on iFixit or from Google.

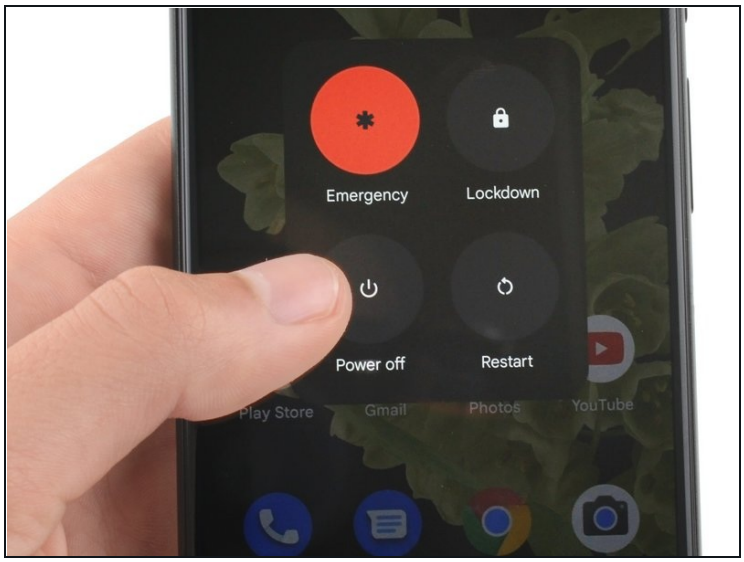
TOOLS:

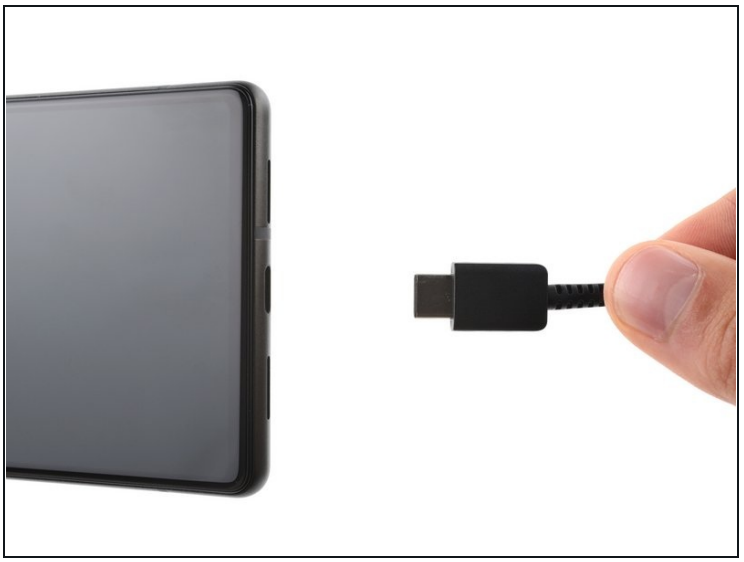
- Anti-Clamp (1)
- iOpener (1)
- Suction Handle (1)
- iFixit Opening Picks (Set of 6) (1)
- Spudger (1)
- Tweezers (1)
- Microfiber Cleaning Cloths (1)
- Heat Gun (1)
- ESD Safe Blunt Nose Tweezers (1)
- Isopropyl Alcohol (90% or Greater) (1)

PARTS:

- Tesa 61395 Tape (1)
- iFixit Adhesive Remover (1)

Step 1 — Safety precautions





⚠ Allow your battery to drain below 25% before starting this repair. A charged battery may catch fire if damaged.

- Fully power off your phone and unplug any cables.

Step 2 — Anti-Clamp instructions

The next three steps demonstrate the Anti-Clamp, a tool we designed to make the opening procedure easier. **If you aren't using the Anti-Clamp, skip down three steps for an alternate method.**

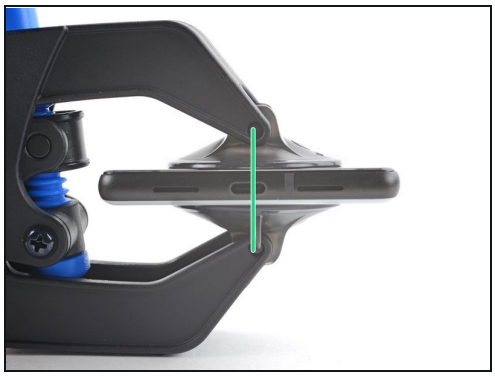
For complete instructions on how to use the Anti-Clamp, check out this guide.

If your screen is cracked, cover it with a layer of clear packing tape to help the suction cup adhere.

- Pull the blue handle backwards to unlock the Anti-Clamp's arms.
- Slide the arms over either the left or right edge of your phone.
- Position the suction cups near the bottom edge of the phone—one on the front, and one on the back.
- Squeeze the cups together to apply suction.

If you find that the surface of your phone is too slippery for the Anti-Clamp to hold onto, you can use tape to create a grippier surface.

Step 3



- Pull the blue handle forward to lock the arms.
- Turn the handle clockwise 360 degrees or until the cups start to stretch.
- Make sure the suction cups remain aligned with each other. If they begin to slip out of alignment, loosen the suction cups slightly and realign the arms.

Step 4

- Heat an iOpener and thread it through the arms of the Anti-Clamp.

  ⓘ You can also use a hair dryer or heat gun—but extreme heat can damage the display and/or internal battery, so proceed with care.

- Fold the iOpener so it lays on the bottom edge of the phone.

- Wait one minute to give the adhesive a chance to release and present an opening gap.

- Insert an opening pick under the screen frame when the Anti-Clamp creates a large enough gap.

  ⓘ If the Anti-Clamp doesn't create a sufficient gap, apply more heat to the area and rotate the handle clockwise half a turn.

  ⚠ Don't crank more than a half a turn at a time, and wait one minute between turns. Let the Anti-Clamp and time do the work for you.

- **Skip the next two steps.**

Step 5 — Loosen the display adhesive

- Apply a heated iOpener to the screen to loosen the adhesive underneath. Apply the iOpener for at least three minutes.
  - A hair dryer, heat gun, or hot plate may also be used, but be careful not to overheat the device.

Step 6 — Insert an opening pick

- Once the screen is warm to the touch, apply a suction handle to the bottom edge of the screen.

  ⓘ If your screen is badly cracked, covering it with a layer of clear packing tape may allow the suction handle to adhere. Alternatively, very strong tape may be used instead of the suction handle. If all else fails, you can superglue the suction handle to the screen.

- Lift the screen, including its safety frame, with the suction handle to create a small gap between the screen and the phone assembly.

- Insert an opening pick into the gap between the screen frame and the phone assembly.

  ⚠ Make sure to insert your opening pick in the right position to avoid separating the screen from its safety frame instead of the phone assembly.

- Slide the opening pick to the bottom right corner of the screen to slice its adhesive.

- Leave the opening pick in place to prevent the adhesive from resealing.

Step 7 — Slice the adhesive

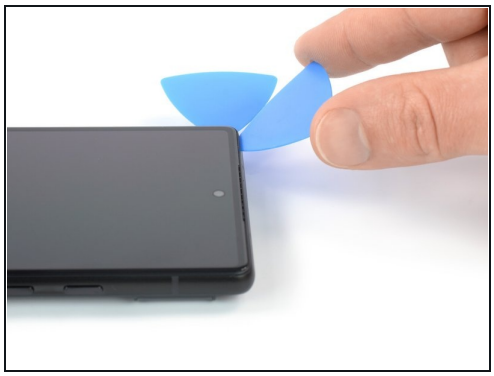
- Insert a second opening pick at the bottom edge and slide it to the bottom left corner of the screen to slice the adhesive.
- Leave the opening pick in place to prevent the adhesive from resealing.

Step 8



- The screen of the Google Pixel 6 is not only held in place by adhesive but also small plastic clips. If your opening pick gets blocked during the screen removal procedure, it means you inserted your pick too deep underneath the screen. Only insert the tip of the opening pick (3-4 mm) when slicing the display adhesive.
- Insert a third opening pick underneath the bottom left corner of the screen.
- Slide the opening pick along the left edge of the screen to slice the adhesive.
- Leave the opening pick in the top left corner to prevent the adhesive from resealing.

Step 9



If the adhesive becomes hard to cut, it has most likely cooled down. Use your iOpener or heat gun for 1-2 minutes to reheat it.

When you slice near the front facing camera, insert only the tip of the opening pick (2-3 mm) to avoid damaging or smearing the camera.

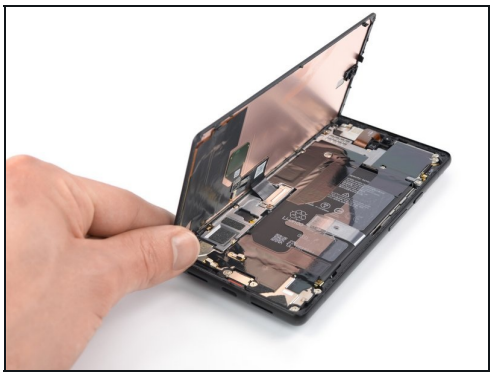
- Insert a fourth opening pick at the top left corner of the screen.
- Slide the opening pick along the top edge of the phone to slice the adhesive.
- Leave the opening pick in the top right corner to prevent the adhesive from resealing.

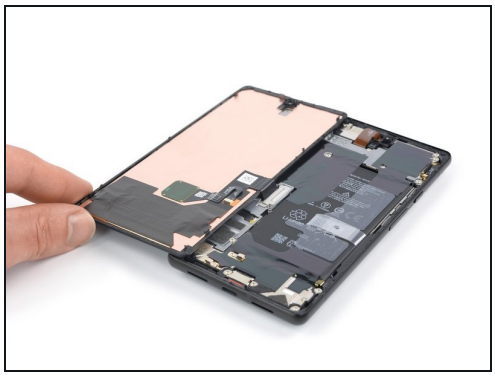
Step 10

- Insert a fifth opening pick and slide it along the right edge of the phone to slice the remaining adhesive.

⚠ Do not try to remove the display all the way yet, the screen is still connected to the phone assembly.

Step 11 — Open up the phone assembly

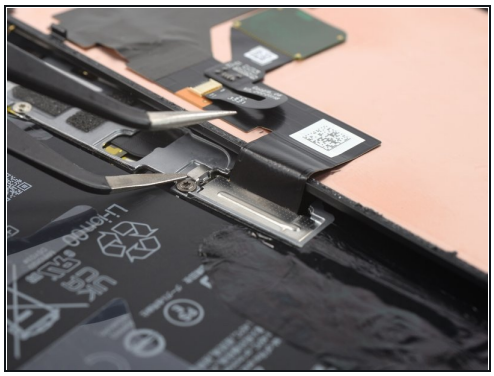
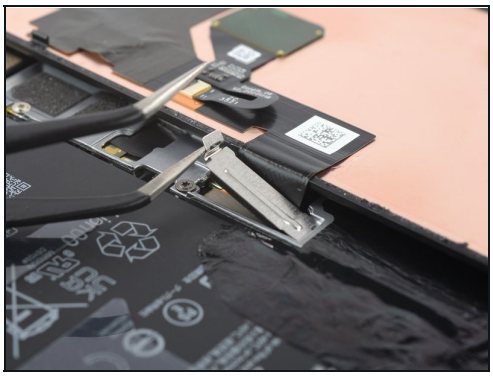
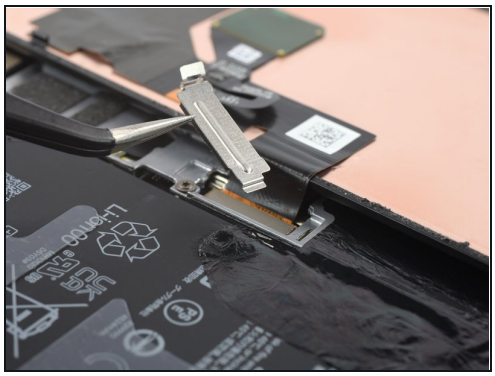




⚠ Avoid straining the display cable during the following procedure.

- Carefully open the right side of the screen to the left side of the phone assembly like you would open a book.

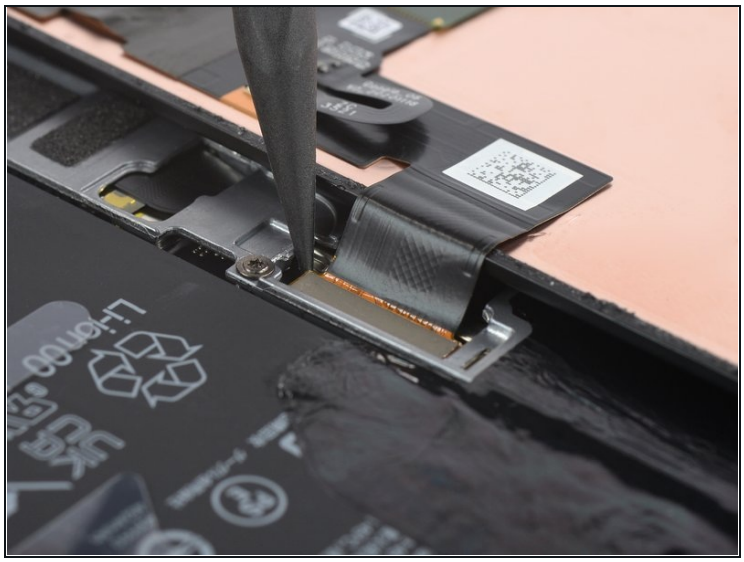
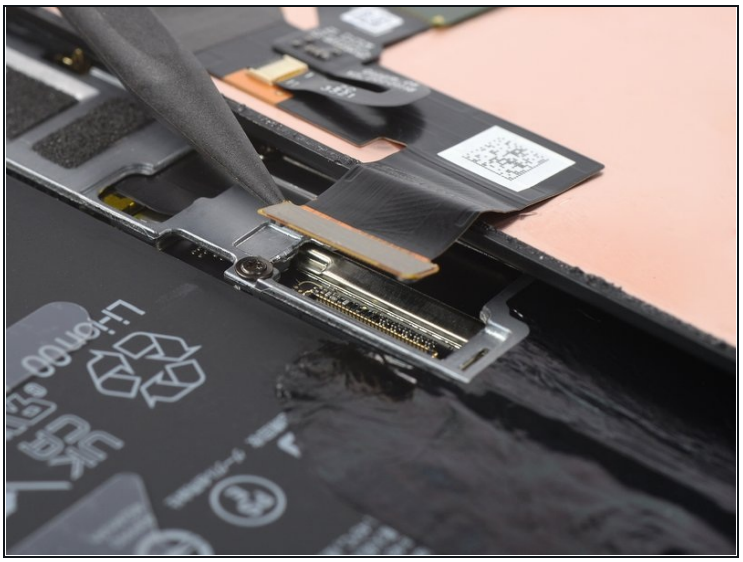
Step 12 — Remove the display cable bracket

- Use a pair of tweezers to carefully unhinge and remove the metal bracket sitting on top of the display cable connector.

ⓘ Make sure to keep this component to reinstall it during reassembly.

Step 13 — Disconnect the display cable

- Use a spudger to disconnect the display flex cable by prying the connector straight up from its socket.

Step 14 — Remove the screen

- Remove the screen.

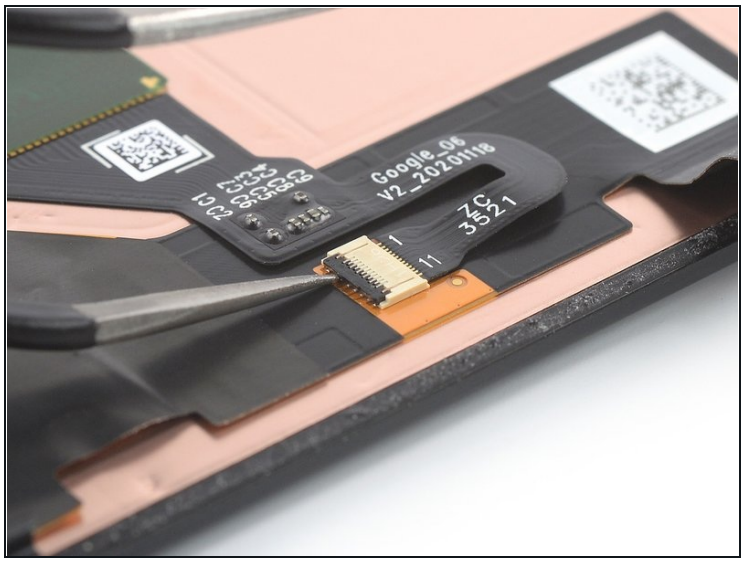
During reassembly:

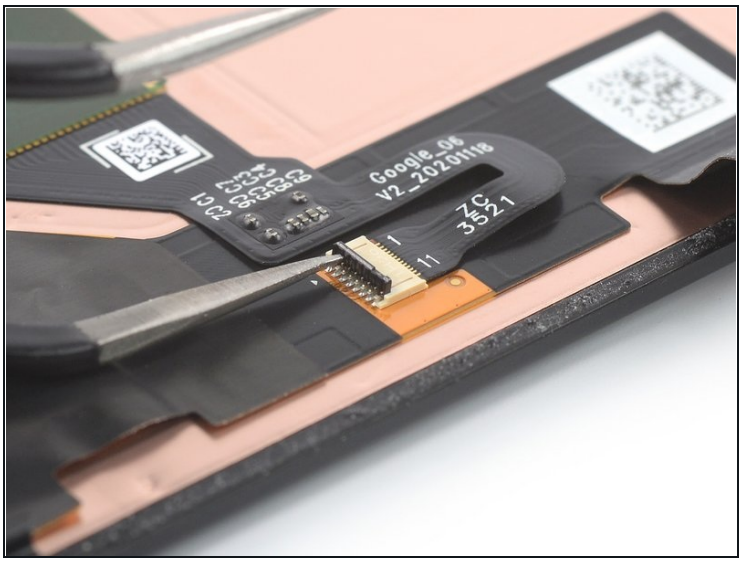
- If you replaced the screen, check the front-facing camera hole on the screen and remove any remaining protective liners in it.

Remember to reinstall the display cable bracket.

- This is a good point to test your phone before sealing it up. Temporarily connect your screen, power on your phone, and make sure it works as expected. Before continuing with reassembly, **power off your phone and disconnect the screen**.
- Follow this guide if you're using custom-cut adhesives for your device.
- Follow this guide if you're using a pre-cut adhesive card.
- If you're installing a new screen, follow this guide to calibrate the fingerprint sensor.

Step 15 — Open the ZIF connector

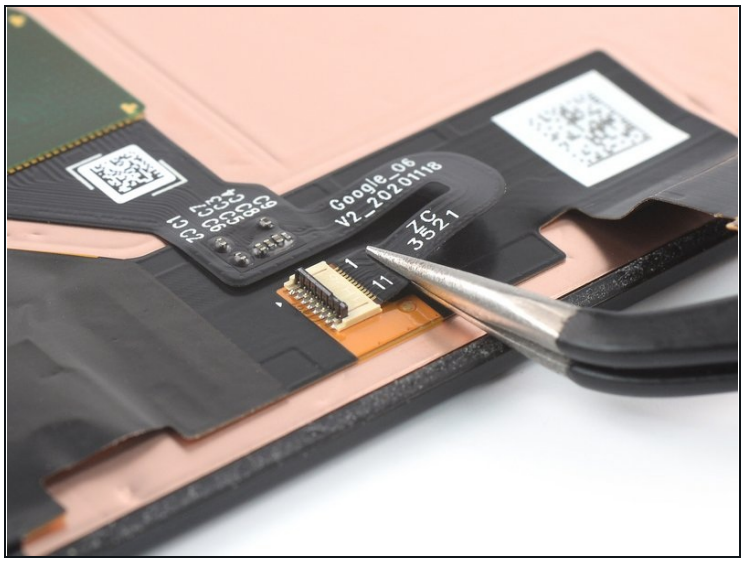


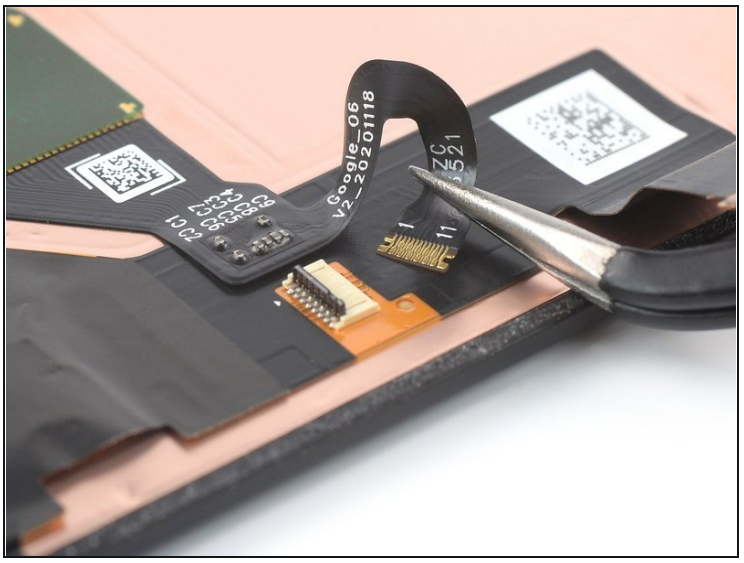


If you replace the fingerprint reader in the Pixel 6 or switch it between two different displays you need recalibrate it to maintain its functionality.

- Use one arm of a pair of tweezers to carefully open the ZIF connector at the rear side of the screen.

Step 16 — Disconnect the fingerprint reader



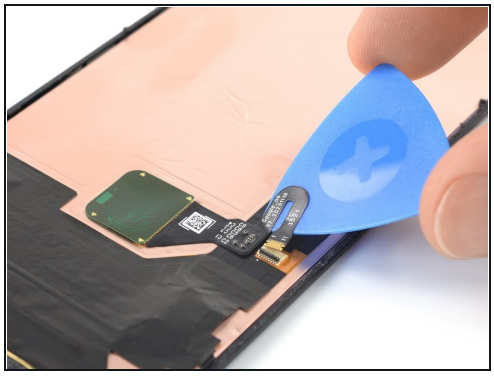


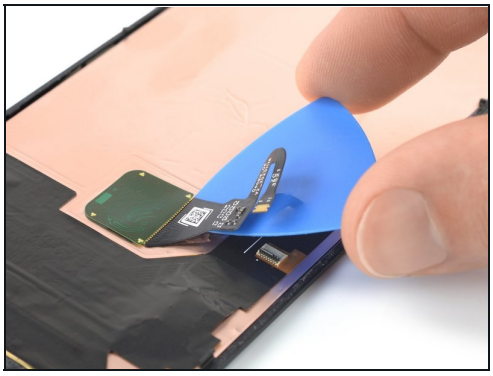
- Use a pair of tweezers to disconnect the fingerprint reader by pulling its cable out of the ZIF connector.

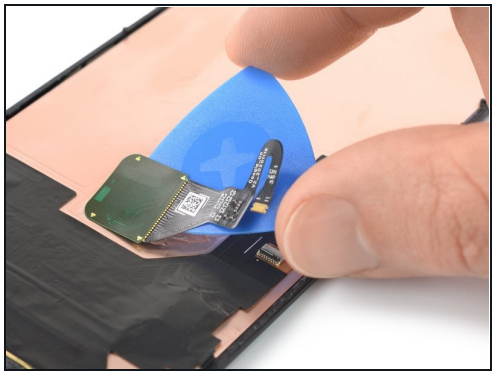
Step 17 — Loosen the fingerprint reader adhesive

- Apply a heated iOpener to the screen where the fingerprint reader is located to loosen the adhesive underneath. Apply the iOpener for at least 3 minutes.
  - ⓘ A hair dryer, heat gun, or hot plate may also be used, but be careful not to overheat the device.

Step 18 — Separate the fingerprint reader from the screen





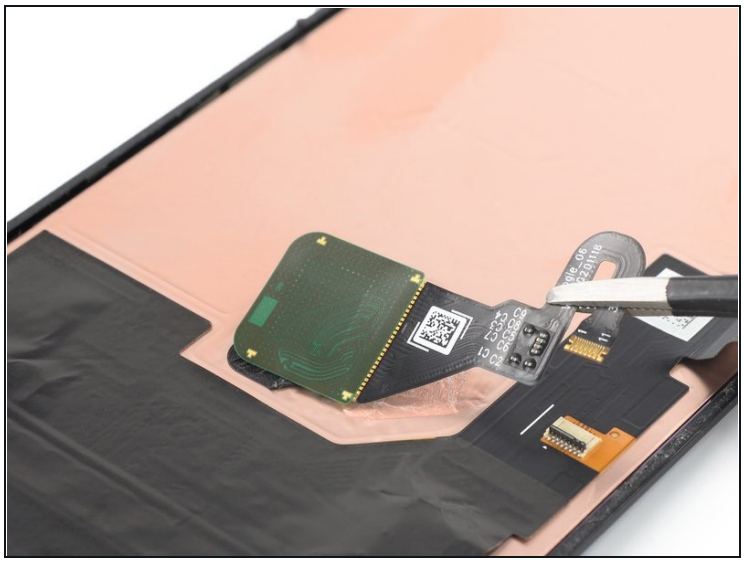


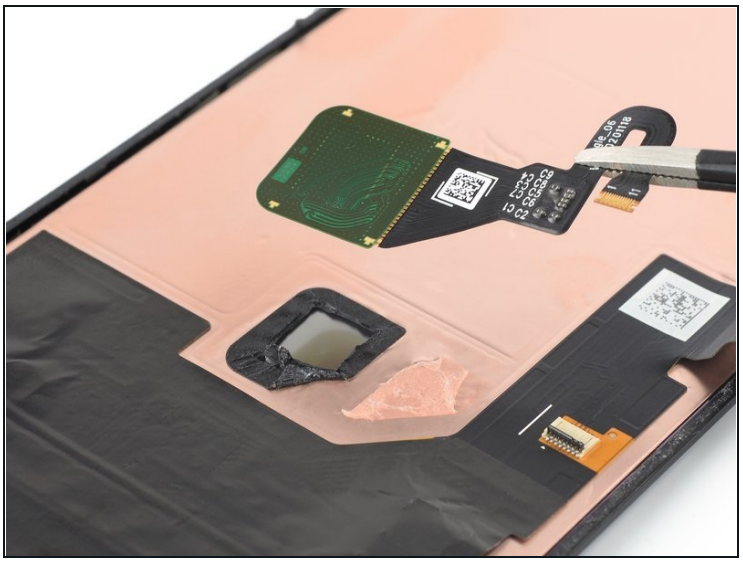
- Carefully slide an opening pick underneath the fingerprint reader cable to slice its adhesive.
  - ⓘ Be very gentle during this procedure. Too much force might damage the display. If the adhesive is hard to cut, reapply your iOpener for another minute to loosen it.

⚠ Be careful not to overheat the screen—the display is susceptible to heat damage.

- Use your opening pick to separate the fingerprint reader from the screen.

Step 19 — Remove the fingerprint reader





- Use a pair of tweezers or your fingers to carefully remove the fingerprint reader.

Compare your new replacement part to the original part. You may need to transfer remaining components or remove adhesive backings from the new part before installing.

If possible, turn on your device and test your repair before installing new adhesive and resealing.

To reassemble your device, follow these instructions in reverse order. During reassembly apply new adhesive where necessary after cleaning the relevant areas with isopropyl alcohol (>90%).

To run a diagnostics test with the built-in Pixel Diagnostic tool, click here.

Take your e-waste to an R2 or e-Stewards certified recycler.

Repair didn't go as planned? Try some basic troubleshooting, or ask our Answers community for help.