



Google Pixel 7 Earpiece Speaker 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 earpiece speaker in your Google Pixel 7.

For your safety, discharge the battery below 25% before disassembling your phone. This reduces the risk of fire if the battery is accidentally damaged during the repair. If your battery is swollen, [take appropriate precautions](#).

Caution: The Pixel 7 contains class 1 lasers. Disassembly could result in exposure to invisible infrared laser emissions.

Note: 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 in order to complete this repair.

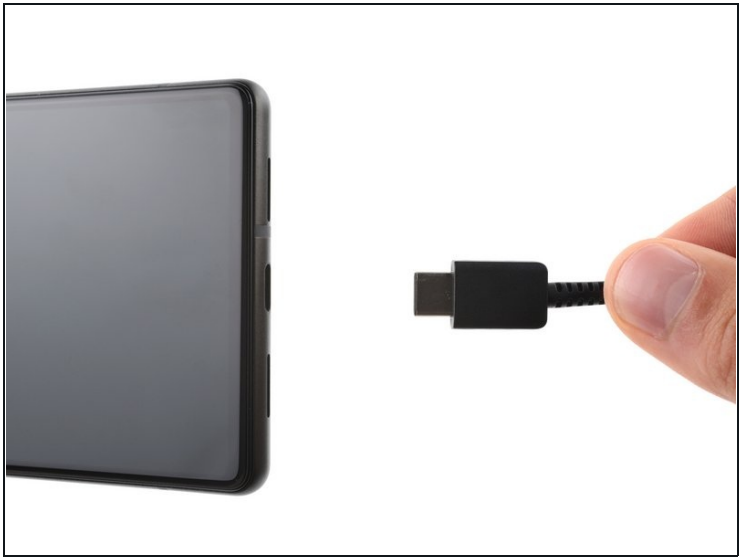
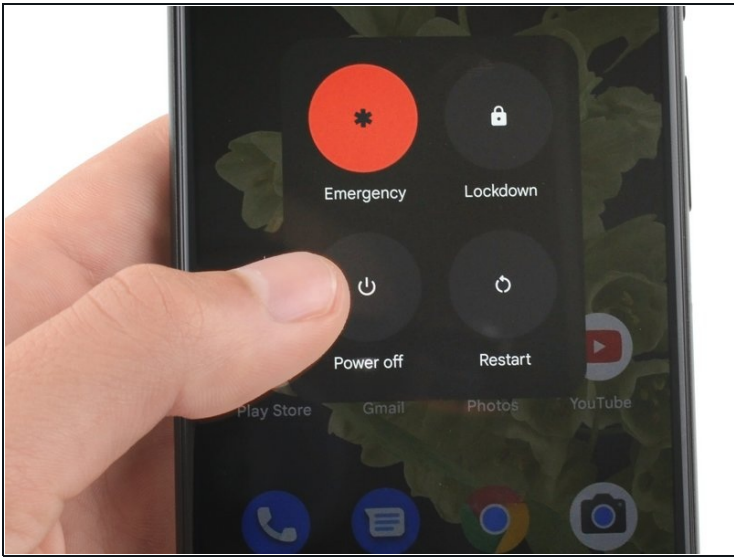
TOOLS:

[Clampy - Anti-Clamp](#) (1)
[Isopropyl Alcohol \(90% or Greater\)](#) (1)
[Thermal Paste](#) (1)
[iOpener](#) (1)
[Heat Gun](#) (1)
[Suction Handle](#) (1)
[iFixit Opening Picks \(Set of 6\)](#) (1)
[Tweezers](#) (1)
[Spudger](#) (1)
[Microfiber Cleaning Cloths](#) (1)
[Safety Glasses](#) (1)
[iFixit Adhesive Remover](#) (1)
[T3 Torx Screwdriver](#) (1)

PARTS:

[Google Pixel 7 Earpiece Speaker - Genuine](#) (1)
[Google Pixel 7 Display Adhesive - Genuine](#) (1)
[Precut Double-Sided Adhesive Card](#) (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 — Screen removal information



- ① The screen of the Google Pixel 7 is held in place by a safety frame of plastic clips and adhesive.
- During the removal procedure, make sure to insert your opening picks under the safety frame to avoid separating it from the screen.
- ⚠ Only insert the pick up to ~3.5 mm during the removal procedure to avoid damaging the internals and to avoid interfering with the plastic clips.
- There are several plastic clips around the whole screen. In case your opening pick gets blocked during the screen removal procedure it means you inserted your pick too deep underneath the screen.

Step 3 — Anti-Clamp instructions



- ① 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.**
- ① For complete instructions on how to use the Anti-Clamp, [check out this guide](#).
- ① 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.
- ① 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 4



- 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 5



- [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 6 — Loosen the display adhesive



- Apply a [heated iOpener](#) to the screen 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. The edge should feel slightly too hot to the touch.

Step 7 — 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 display is badly cracked, [covering it with a layer of clear packing tape](#) may allow the suction cup to adhere. Alternatively, very strong tape may be used instead of the suction cup. If all else fails, you can superglue the suction cup to the broken screen.
- Lift the screen including its safety frame with the suction handle to create a small gap between the screen and the phone assembly.
- ⓘ Depending on the age of your phone, this may be difficult. If you're having trouble, apply more heat to the bottom edge and try again.
- Insert an opening pick into the gap.

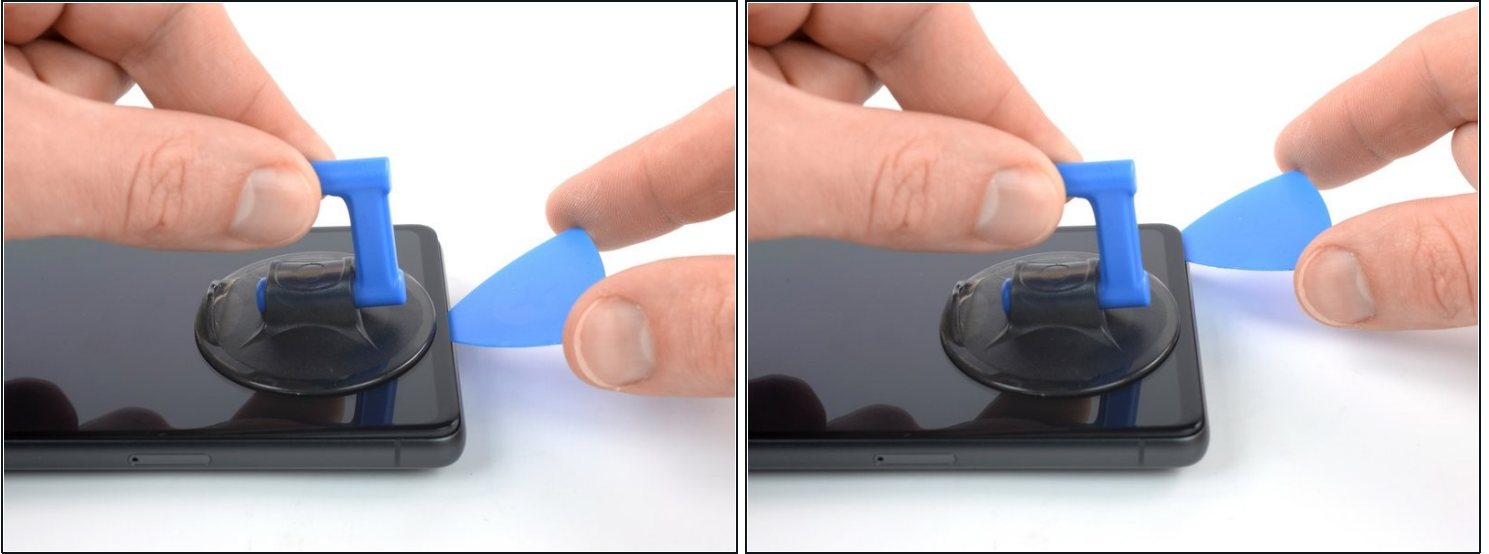
Step 8 — Prevent damage to your phone



⚠ To avoid damaging your phone, **don't insert your pick more than ~2.5 mm as you separate the screen adhesive**. Note the following areas:

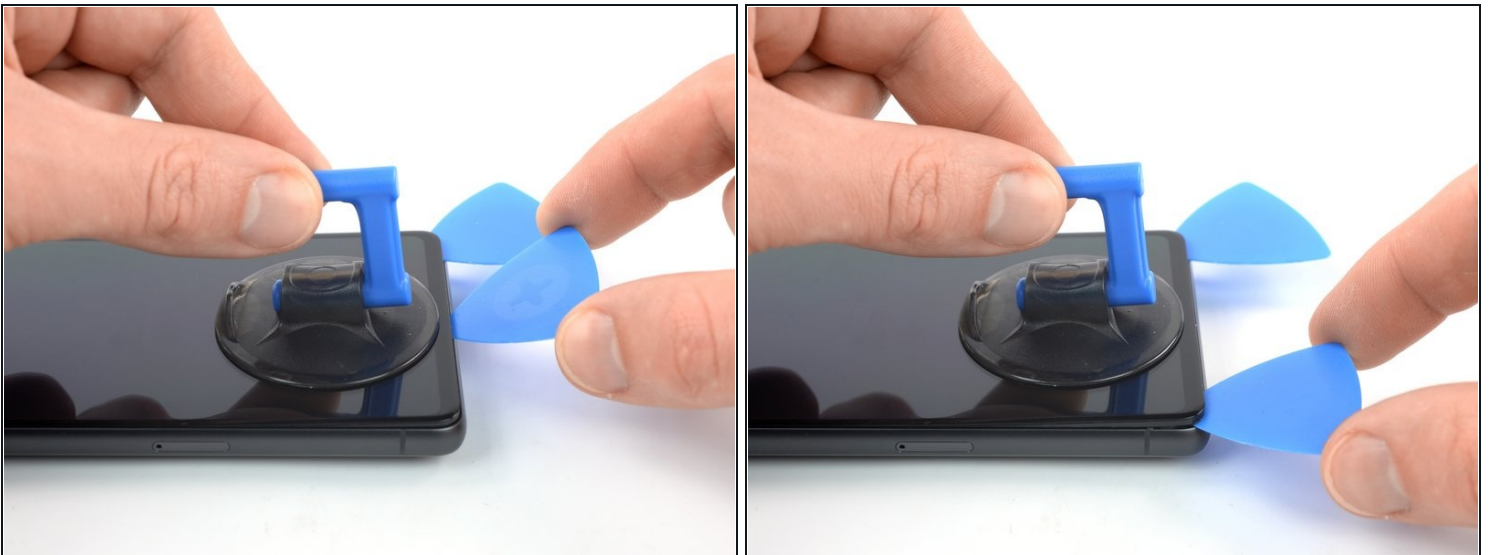
- The screen cable is a little less than halfway up the left edge of the phone. Be very careful here to avoid tearing the cable.
- There are many spring contacts around the perimeter of the phone. Be very careful in these areas to avoid bending the contacts.

Step 9 — Slice the bottom edge adhesive



- 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 10



- 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 11 — Release the left clips



- 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 and to release the plastic clips.
- Leave the opening pick in the top left corner to prevent the adhesive from resealing.

Step 12 — Slice the top edge adhesive



ⓘ 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 (~2.5 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.

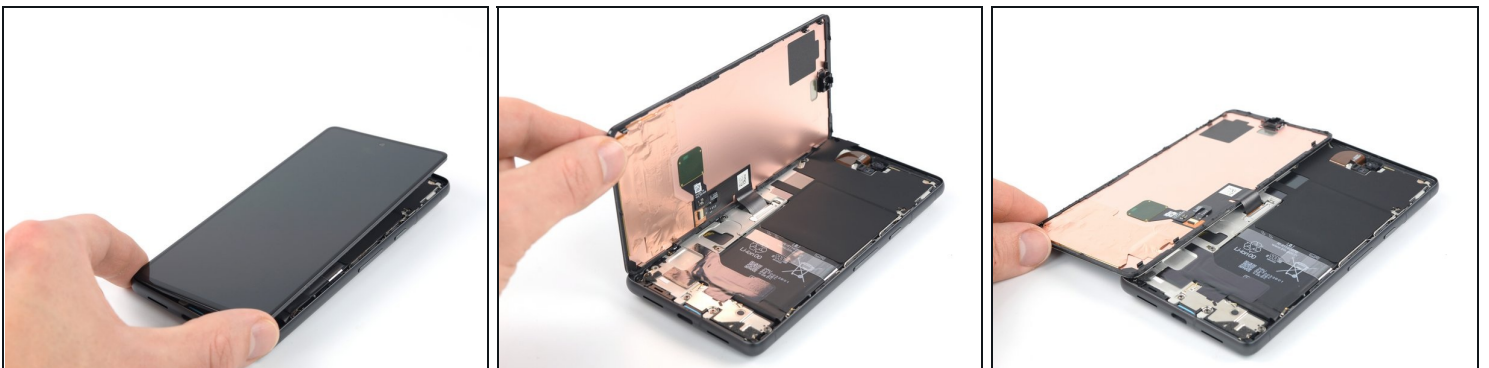
Step 13 — Release the right clips



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

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

Step 14 — Open up the phone assembly



- Lift the right edge of the screen up and towards the left side of the device, like opening a book.
⚠ Don't twist the screen or move it too far away from the frame to avoid straining or damaging the flex cable.
- Rest the screen upside down and parallel to the frame before continuing.

Step 15 — Release the display cable bracket



ⓘ The display cable bracket sits tightly and requires some force to release it.

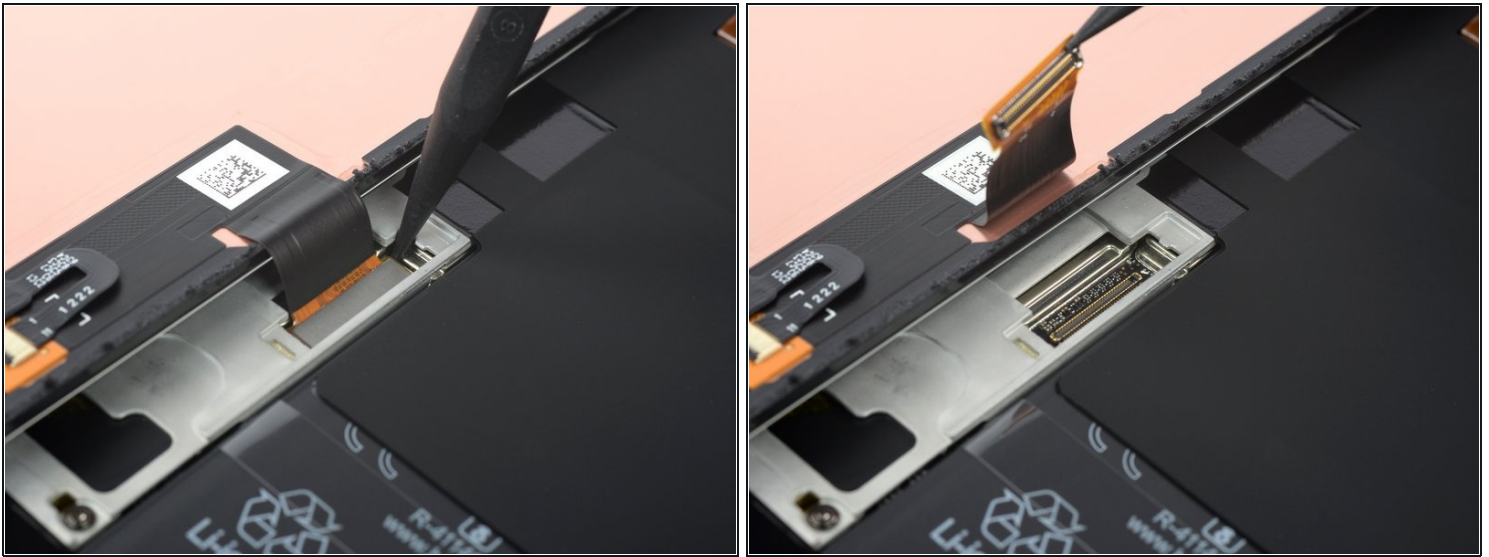
- Insert one arm of a pair of [tweezers](#) into the opening at the upper end of the display cable bracket.
- Push the bracket inwards and pry up to release it.

Step 16 — Remove the display cable bracket



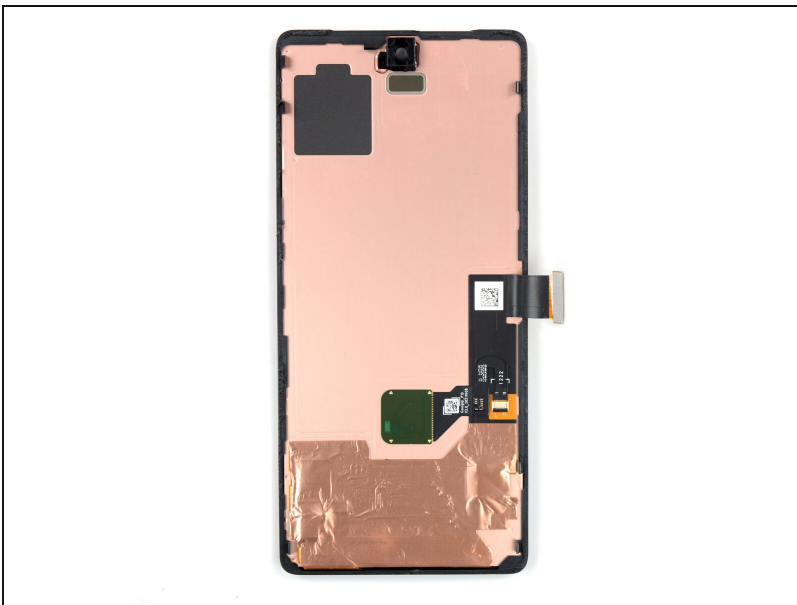
- Use a pair of tweezers to remove the display cable bracket by pulling it from underneath the midframe and in direction of the cameras.

Step 17 — Disconnect the display cable



- Use a spudger to disconnect the display flex cable by prying the connector straight up from its socket.
- ✦ To re-attach [press connectors](#) like this one, carefully align and press down on one side until it clicks into place, then repeat on the other side. Do not press down on the middle. If the connector is misaligned, the pins can bend, causing permanent damage.

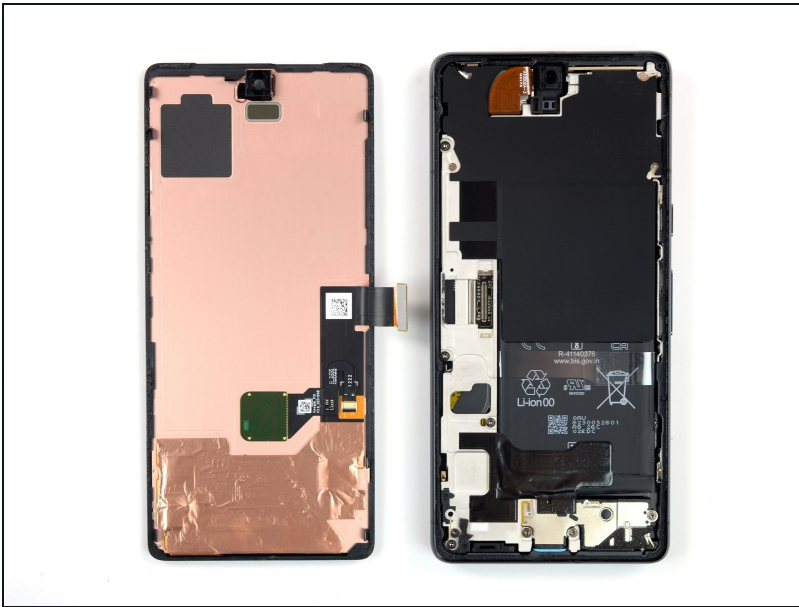
Step 18 — Screen information



⚠ The back of the Pixel's screen is very fragile. Even a small scratch or dent can damage the screen.

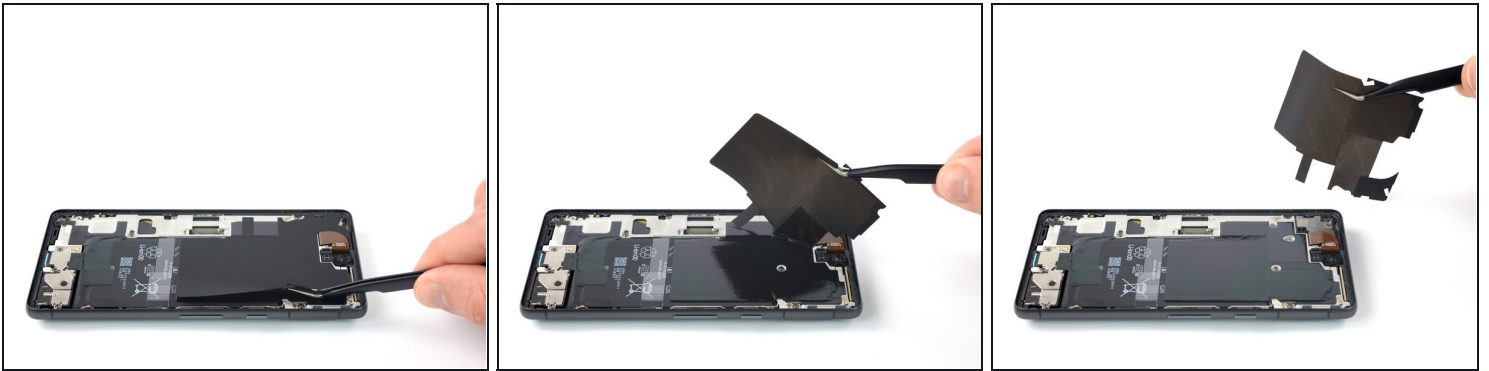
- ⓘ To prevent damaging your screen or replacement screen:
 - When handling your screen, grip it by its edges.
 - When placing the screen on your work area, make sure nothing is touching the bottom of the screen. Consider placing it on a soft, lint-free cloth.

Step 19 — Separate the screen



- Separate the screen from the phone.
- ✦ During reassembly:
 - Check that all screws are tightened and there are no loose parts.
 - Reconnect the screen and test your phone to make sure it works. Power it back down and continue reassembly.
 - Apply new adhesive where it's necessary after cleaning the relevant areas with isopropyl alcohol (>90%).
 - [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.
- ⓘ During the boot-up process after reassembly, the screen will go through a calibration sequence. Do not touch the screen during this process, as it could result in improper touch calibration and create touch issues.

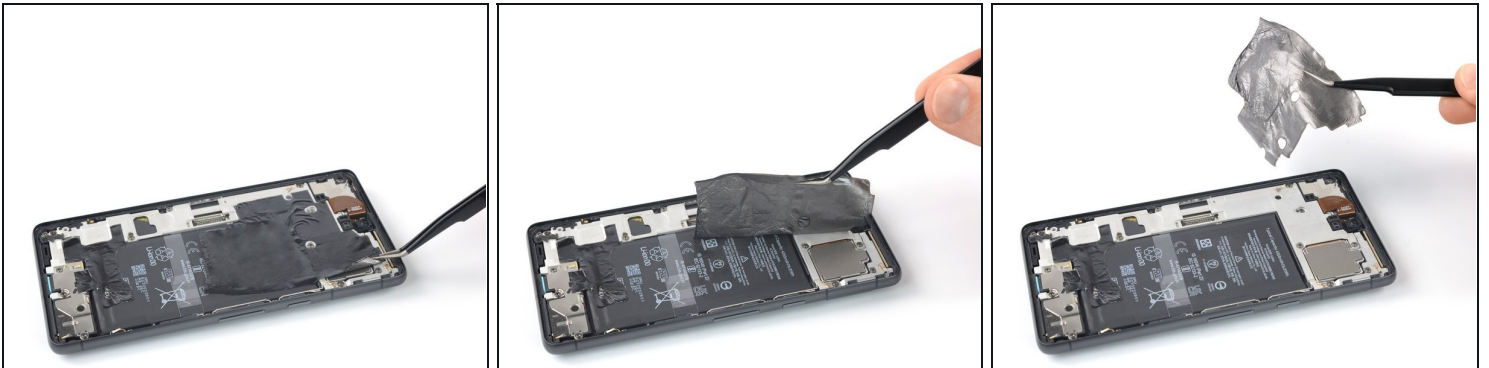
Step 20 — Remove the black silicone pad



⚠ Take care not to puncture or bend the battery with your tool in the following steps—a punctured or bent battery may leak dangerous chemicals or cause a fire.

- Use a pair of [tweezers](#) to peel the black silicone pad off the battery and midframe.

Step 21 — Peel off the upper graphite foil



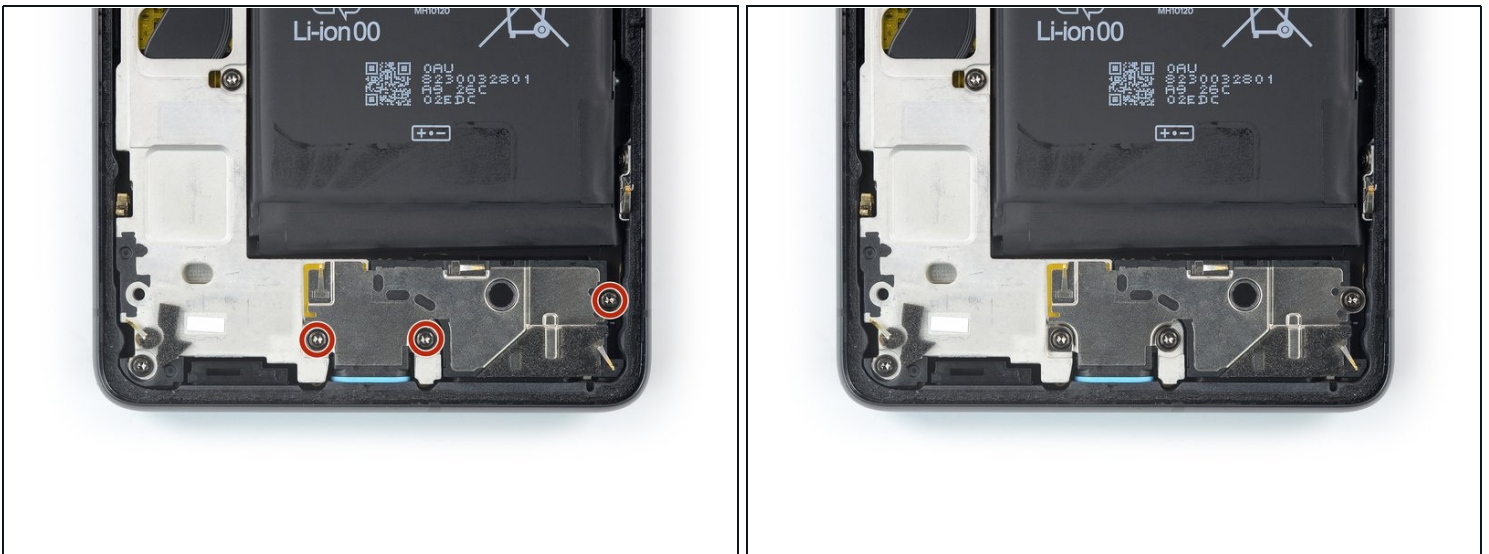
- Use a pair of tweezers to carefully peel the upper graphite foil off the battery and midframe.
 - ⓘ If you're having a hard time peeling off the foil, apply a [heated iOpener](#) to the foil for two minutes to loosen its adhesive.

Step 22 — Peel off the lower graphite foil



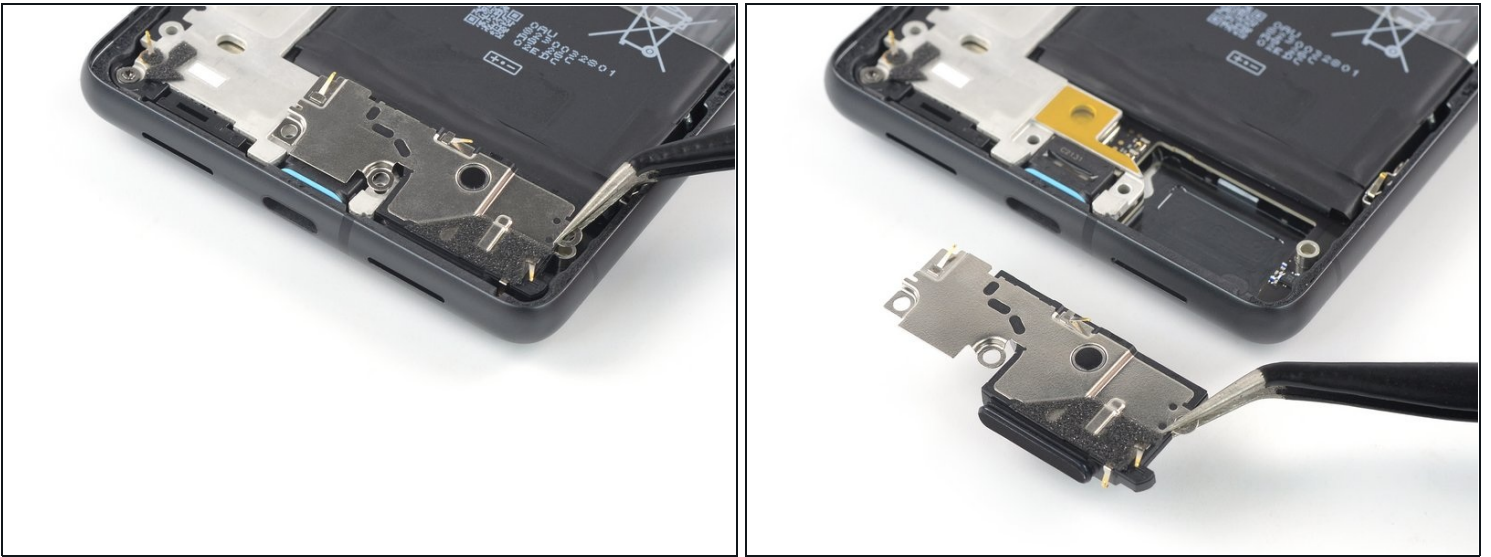
- Use a pair of [tweezers](#) to carefully peel the lower graphite foil off the battery and midframe.
 - ⓘ If you're having a hard time peeling off the foil, apply a [heated iOpener](#) to the foil for two minutes to loosen its adhesive.

Step 23 — Unfasten the loudspeaker screws



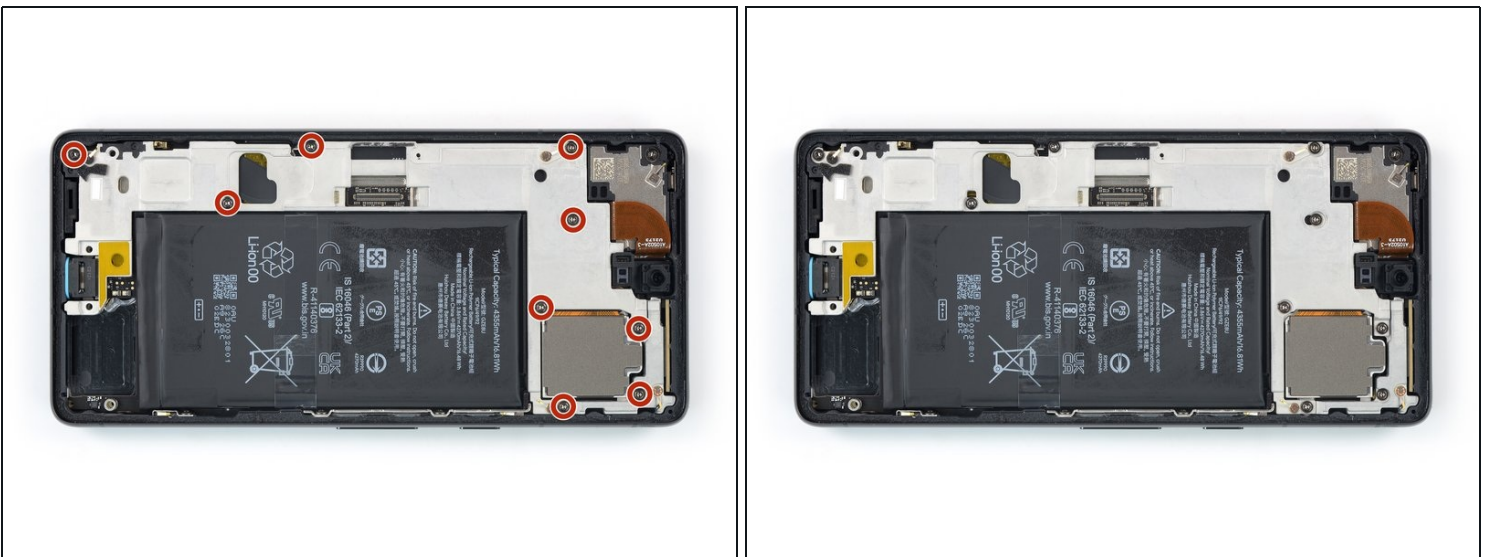
- Use a Torx T3 screwdriver to remove the three 5.1 mm-long screws securing the loudspeaker.

Step 24 — Remove the loudspeaker



- Use a pair of tweezers to lift the loudspeaker out of its recess and remove it.

Step 25 — Unfasten the midframe screws



- Use a Torx T3 screwdriver to remove the nine 5.1 mm-long screws securing the midframe.

Step 26 — Remove the midframe



- Use a pair of [tweezers](#) to remove the midframe.
- 📌 During reassembly check the condition of the thermal pad. If it's damaged, remove the pad, clean the area with high-concentration (greater than 90%) isopropyl alcohol and a microfiber or lint-free cloth, and apply a new thermal pad.

Step 27 — Disconnect the battery cable



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

Step 28 — Disconnect the front facing camera



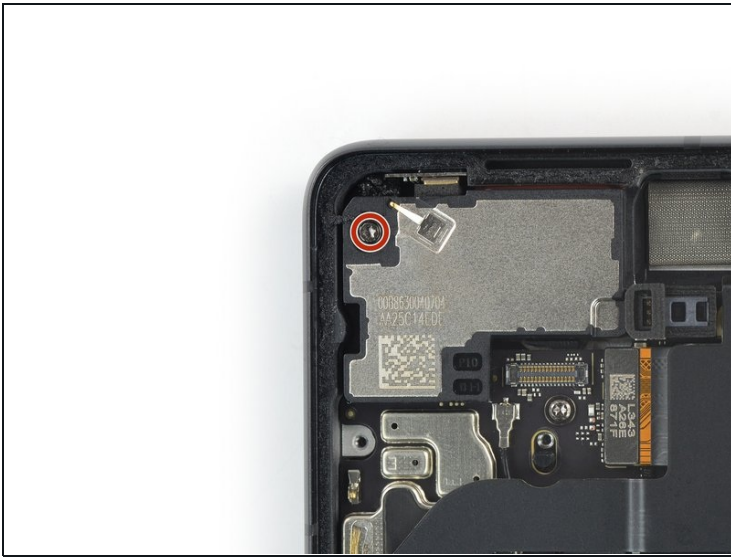
- Use a spudger to disconnect the front facing camera cable by prying the connector straight up from its socket.

Step 29 — Remove the front facing camera



- Use a pair of [tweezers](#) to lift the front facing camera out of its recess and remove it.

Step 30 — Unfasten the earpiece speaker screw



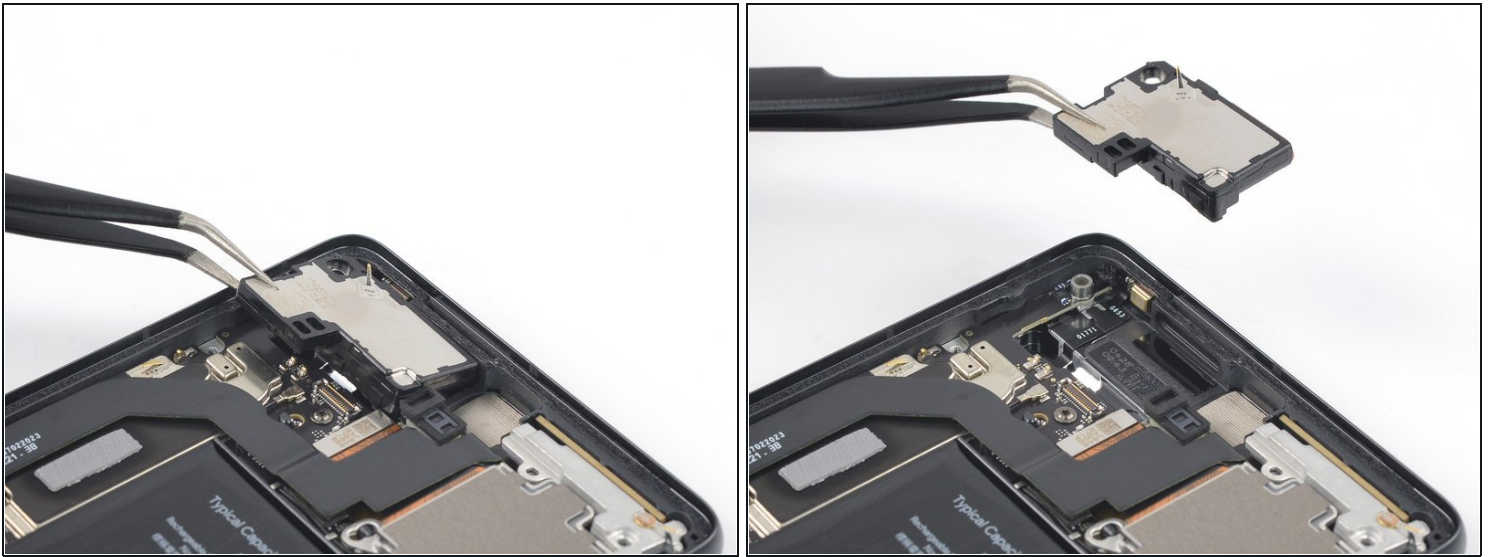
- Use a Torx T3 screwdriver to remove the 5.1 mm-long screw securing the earpiece speaker.

Step 31 — Pry up the earpiece speaker



- Insert the pointed end of a spudger underneath the bottom edge of the earpiece speaker.
- Pry upwards to loosen the earpiece speaker.

Step 32 — Remove the earpiece speaker



- Use a pair of [tweezers](#) to remove the earpiece speaker.

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 you install it.

To reassemble your device, follow these instructions in reverse order.

To run a diagnostics test with the built-in Pixel Diagnostic tool, [click here](#).

Repair didn't go as planned? Try some [basic troubleshooting](#), or ask our [Google Pixel 7 answers community](#) for help.