



Google Pixel 4 Charging Assembly 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 remove or replace the charging assembly on your Google Pixel 4. The charging assembly contains the USB-C port, as well as some antenna connectors, and is layered underneath the loudspeaker and battery.

This process requires removing the loudspeaker, which will compromise the loudspeaker's ingress gasket.

Caution: Google warns that disassembly of the front laser assembly could result in hazardous exposure to invisible infrared laser emissions. Read their safety warnings [here](#).

Warning: Do not reuse the battery if it has been deformed or damaged, as doing so is a potential safety hazard. Replace it with a new battery.



TOOLS:

[SIM Card Eject Tool](#) (1)
[iFixit Opening Picks \(Set of 6\)](#) (1)
[iOpener](#) (1)
[Suction Handle](#) (1)
[Tweezers](#) (1)
[Spudger](#) (1)
[T3 Torx Screwdriver](#) (1)
[Isopropyl Alcohol \(90% or Greater\)](#) (1)
[Coffee Filters or a lint-free cloth](#) (1)



PARTS:

[Google Pixel 4 Charging Assembly - Genuine](#) (1)

Step 1 — Remove the SIM card tray



- Insert a SIM eject tool, bit, or a straightened paper clip into the small hole on the SIM card tray on the left edge of the phone.
- Press firmly to eject the tray.
- Remove the SIM card tray.

Step 2 — Heat the back panel glass



- [Prepare an iOener](#) and apply it to the bottom edge of the back panel for one minute.
 - ⓘ A hair dryer, heat gun, or hot plate may also be used, but be careful not to overheat the phone—the display and internal battery are both susceptible to heat damage.

Step 3 — Apply a suction cup



- Apply a suction cup to the heated edge of the back panel by pressing down on it to create suction, as close to the edge as possible.
- ① If your back glass 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 panel.

Step 4 — Insert an opening pick



- Pull up on the suction cup with strong, steady force to create a gap between the back panel and the frame.
 - ⓘ Depending on the age of your phone, this may be difficult. If you are having trouble, apply more heat to the edge and try again.
- Insert the point of an opening pick into the gap.

Step 5 — Begin to slice the adhesive



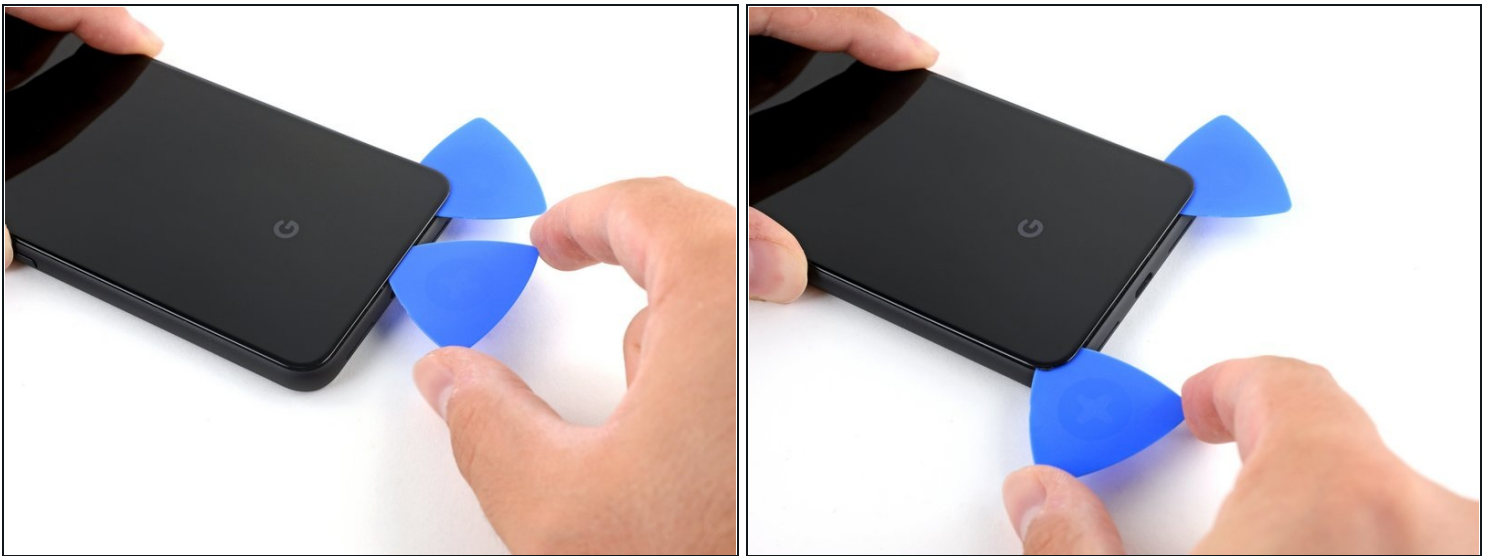
- Slide the opening pick across the bottom towards the left corner to slice the adhesive.
- With the pick still inserted, slide it from the bottom left corner over to the bottom right corner to completely slice the bottom side adhesive.
- Leave the pick inserted in the bottom right corner to prevent the adhesive from re-sealing.

Step 6 — Slice the lefthand-side adhesive



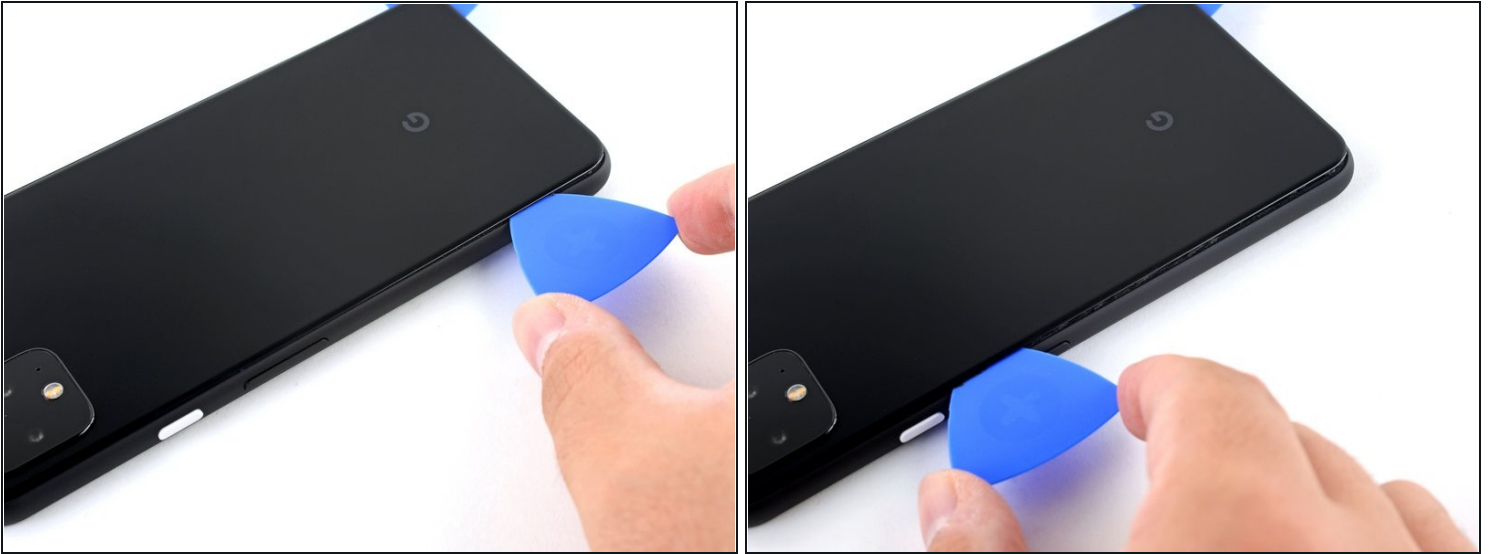
- Prepare an iOpener and apply it on the left edge of the phone for one minute.

Step 7



- Insert a second opening pick underneath the back panel directly over the charge port.
- Slide the opening pick to the bottom left corner of the phone.

Step 8



- Slide the opening pick around the bottom left corner and across the left side of the phone to slice the adhesive.
 - ⓘ The adhesive can be very gummy. Push the pick in and out in a sawing motion to help with slicing.
- Stop when you reach the top left corner, near the camera, and leave the pick inserted.

Step 9 — Slice righthand-side adhesive



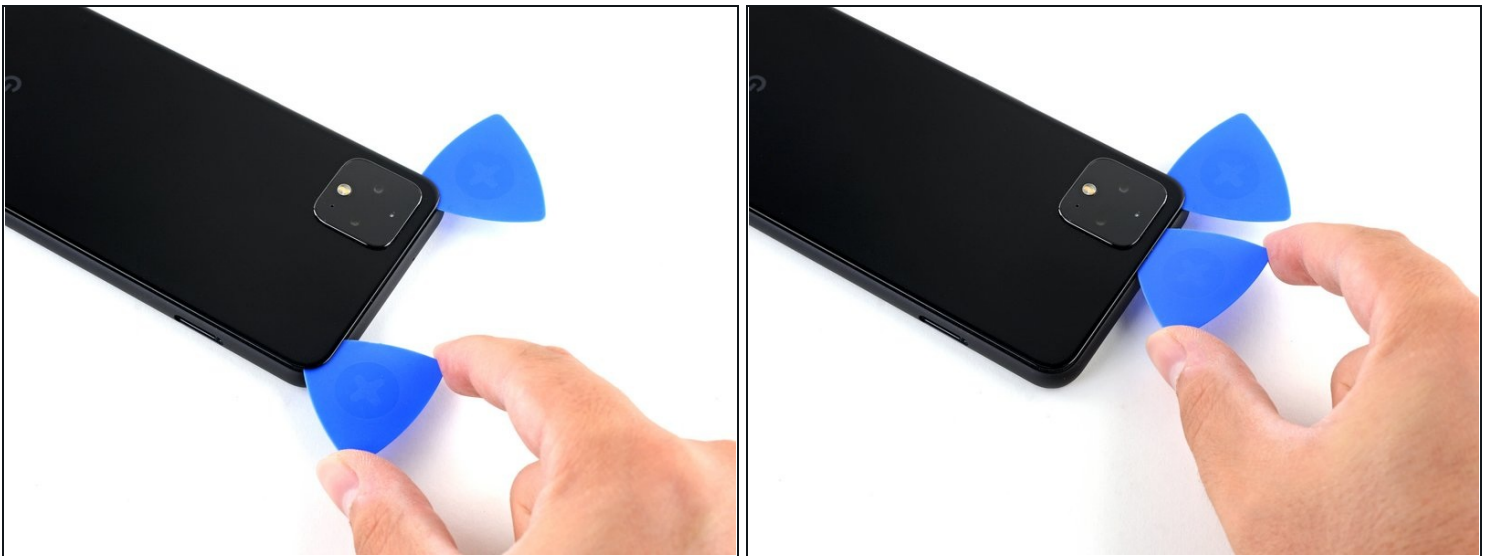
- Prepare an iOpener and apply it on the right edge of the phone for one minute.

Step 10



- With the first two opening picks still in place, insert a third pick on the lower part of the righthand side.
- Slide the opening pick up towards the top of the phone, slicing the right side's adhesive.
 - Stop when you reach the top right corner, and leave the pick inserted.

Step 11 — Slice the top-side adhesive



- Slide the third opening pick around the top right corner and across the top side of the phone, slicing the final strip of adhesive.

Step 12 — Lift up the back panel



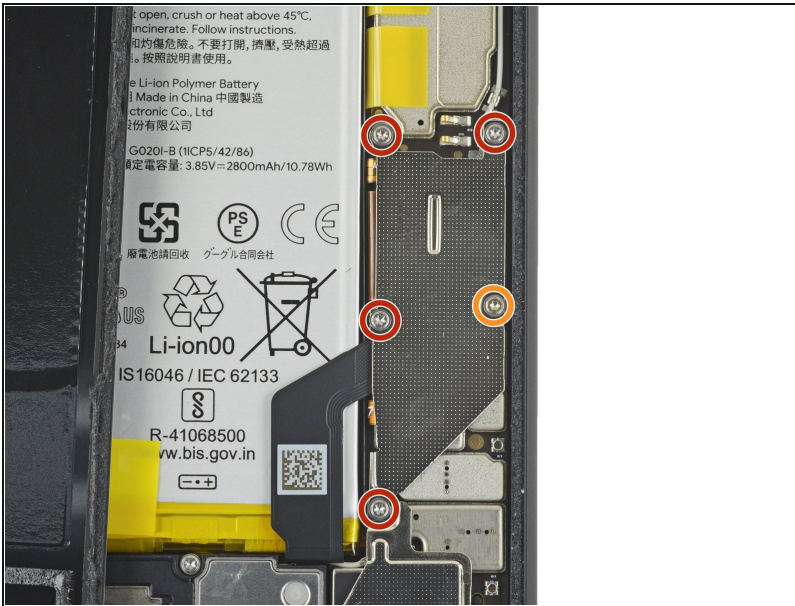
- Once you have sliced around the perimeter of the phone, carefully lift the **right edge** of the back cover, opening it like a book.
 - Do not try to pull the panel all the way off yet, as it is still connected to the phone.

Step 13



- Continue swinging open the back panel until you can rest it on the left edge the phone, being careful not to put any stress on the attached ribbon cable.
 - ☒ During reassembly, this is a good point to power on your phone and test all functions before re-sealing the back panel. Be sure to power your phone back down completely before you continue working.

Step 14 — Disconnect the battery



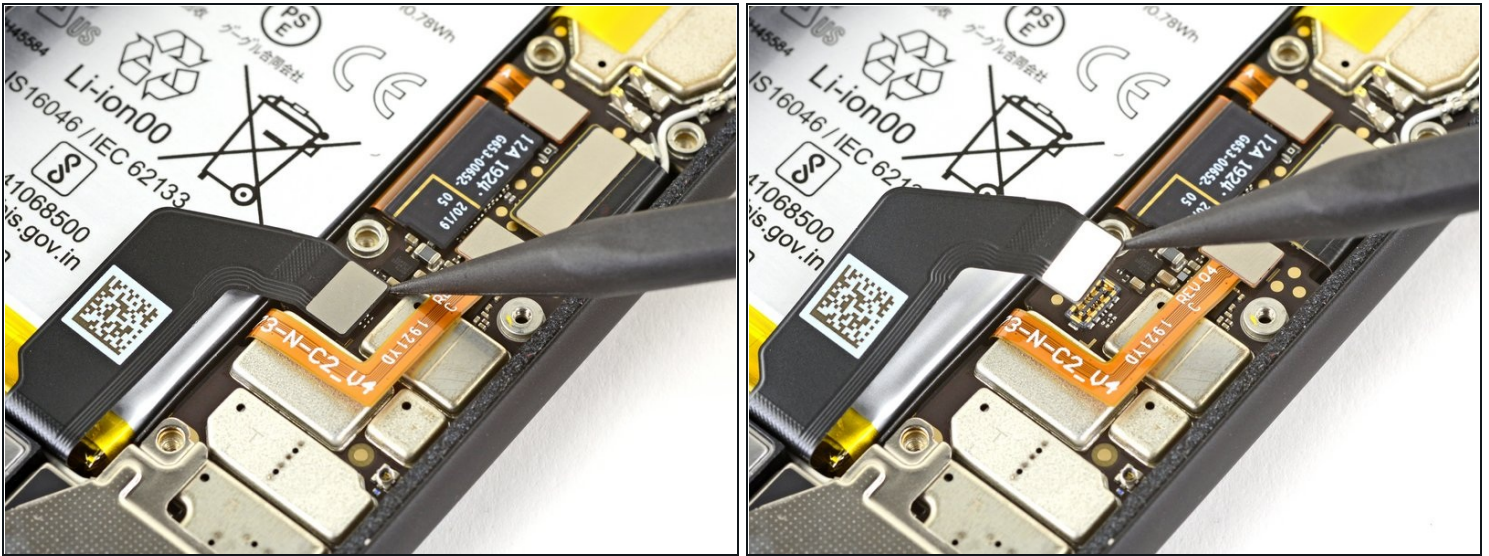
- Remove the five T3 Torx screws securing the battery connector shield:
 - Four 4.0 mm screws
 - One 2.1 mm screw
- ❗ Throughout this repair, [keep track of each screw](#) and make sure it goes back exactly where it came from.

Step 15



- Use a pair of [tweezers](#) to remove the battery connector shield.

Step 16



⚠ Whenever you use the spudger near the battery, be very careful not to puncture the battery.

- Using the pointed end of a spudger, pry the battery connector straight up from the motherboard to disconnect the battery.
- ☑ 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 17



- Using the flat end of a spudger, gently fold the battery cable over so it doesn't accidentally make contact during the rest of your repairs.

Step 18 — Disconnect the back panel connector



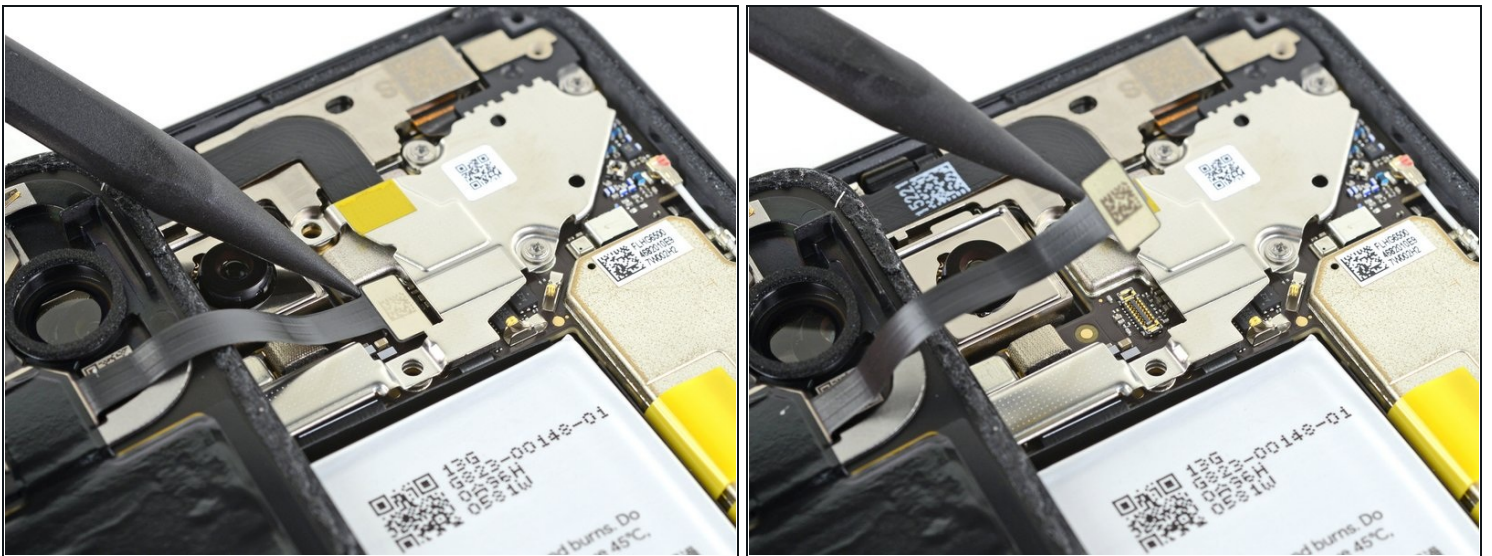
- Use a T3 Torx driver to remove the two 4 mm screws securing the back panel connector cover.

Step 19



- Use a pair of tweezers to remove the back panel connector cover.

Step 20



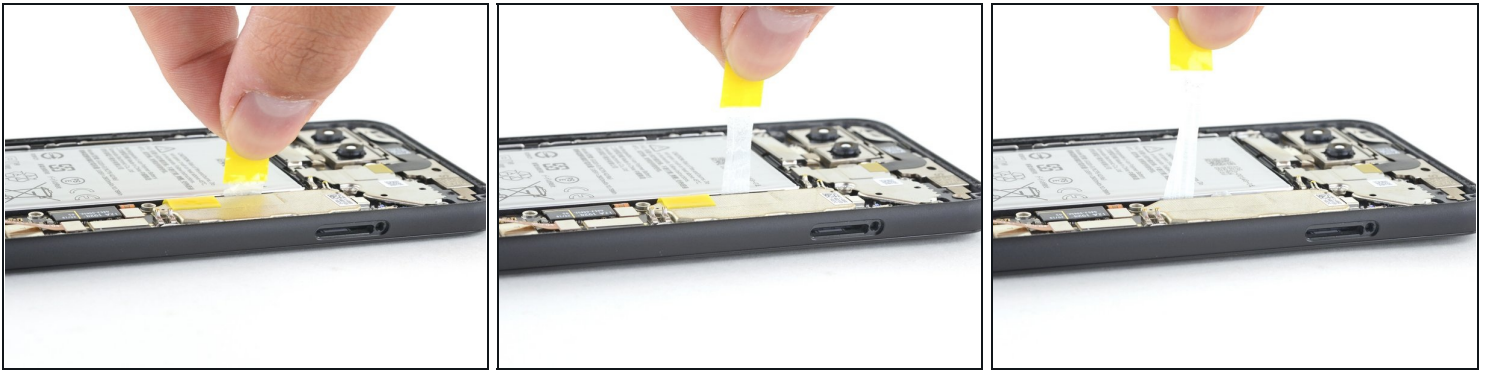
- Using the pointed end of a spudger, pry up and disconnect the back panel connector.

Step 21 — Remove the back panel



- Remove the back panel.
- ✦ During reassembly, [follow this guide](#) to install custom-cut adhesives for your device.
- ✦ [Follow this guide](#) if you are using a pre-cut adhesive card.

Step 22 — Remove the adhesive strips



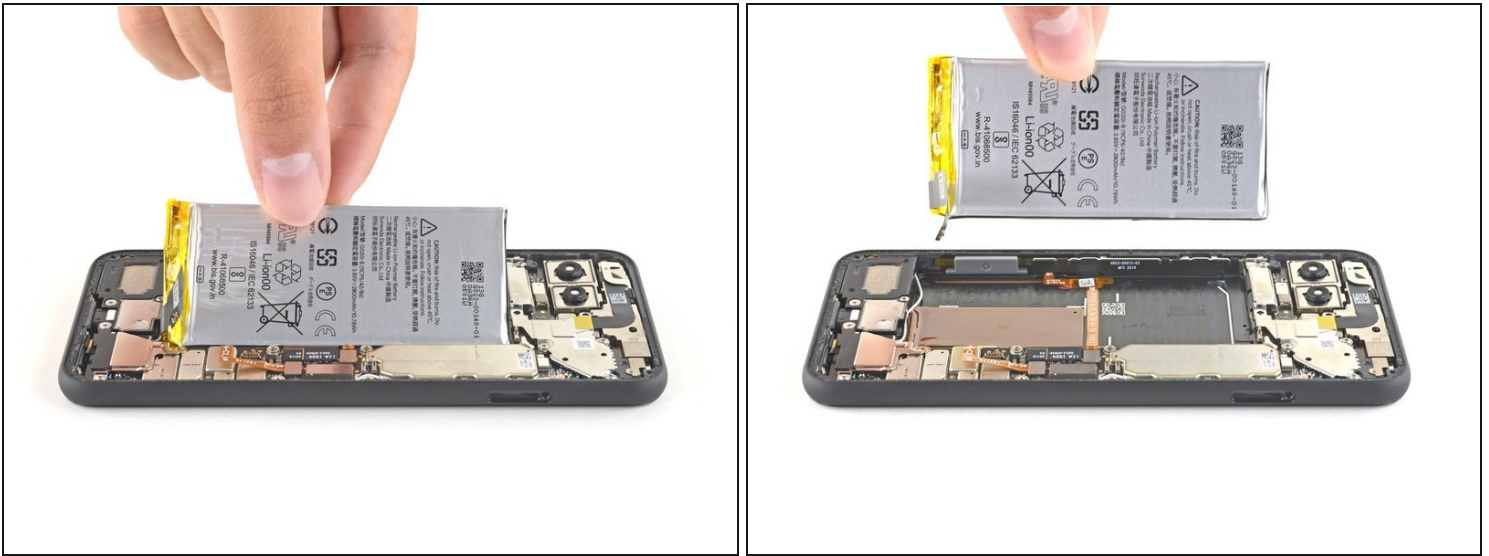
- Pull on the yellow pull tab of the adhesive strip with steady force.
 - ① If the adhesive becomes hard to pull, you can [roll it around a spudger](#) and continue pulling.
- Continue firmly pulling up on the adhesive strip with constant force. If you're using a spudger, spin it every so often to keep the exposed section of the pull tab as short as possible.
 - ① This may take a lot of force.
 - ① These adhesive pull tabs are very prone to snapping in half during this process. Pull as slowly as possible.
 - ① If the adhesive pull tabs are not stretching, fill a plastic dropper or syringe with high concentration (>90%) isopropyl alcohol and apply a few drops under the left edge of the battery. Give the alcohol a minute to weaken the battery adhesive.
- Continue this process for each of the three pull tabs, until all are either out or have snapped in half.

Step 23 — Remove the battery



- If the battery tabs snapped during removal, insert an opening pick on the upper right edge of the battery, slicing the adhesive underneath.
 - ① Even if you successfully removed all three adhesive pull tabs, using an opening pick to dislodge the battery may be helpful.
- ⚠ Don't insert the opening pick on or anywhere below the [grip sensor cable](#), as the pick can damage the charge port flex cable located underneath the battery.**

Step 24



⚠ Do not reuse the battery if it has been deformed or damaged, as doing so is a potential safety hazard. Replace it with a new battery.

- Lift the battery up and away from the phone to remove it. You may need to peel the battery away from any leftover adhesive tabs.
- ⓘ If there's any alcohol solution remaining in the phone, carefully wipe it off with a lint-free cloth or allow it to air dry before installing your battery.
- ★ To install a replacement battery:
 - If you're using stretch release adhesive, [apply them onto the battery](#). Otherwise, apply some [double-sided tape](#), or [pre-cut adhesive strips](#) in the phone's battery well, being careful not to cover the charge port flex cable. Peel away any tape liners to expose the adhesive.
 - *Temporarily* re-connect the battery's connector to the motherboard socket. This ensures that the battery is properly positioned.
 - Lay the battery in place and press firmly.
 - Disconnect the battery connector from its motherboard socket and resume re-assembly.

Step 25 — Remove the vibration motor cover



- Remove the two T3 Torx screws securing the vibration motor cover:
 - One 4.2 mm screw
 - One 4.4 mm shouldered screw

Step 26



- Use a pair of [tweezers](#) to remove the vibration motor shield.

Step 27 — Remove the loudspeaker



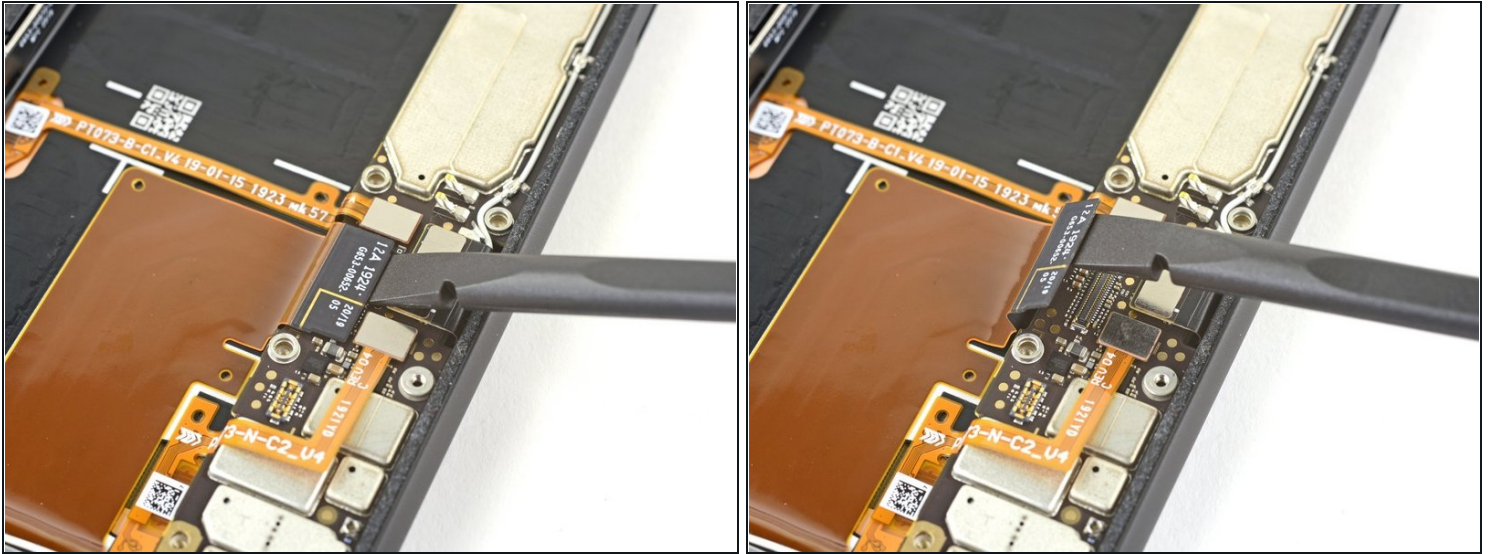
- Remove the two T3 Torx screws securing the loudspeaker:
 - One 4.2 mm screw
 - One 4.4 mm shouldered screw

Step 28



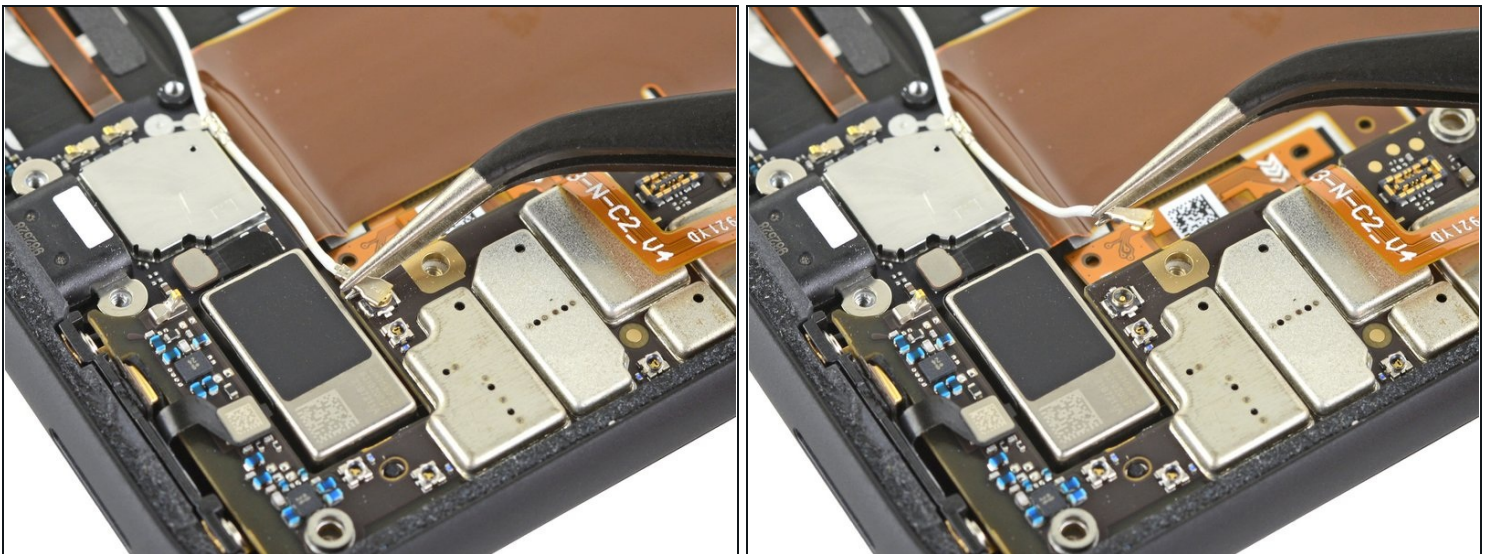
- Use a pair of tweezers to slide the loudspeaker towards the top of the phone to clear the retention clip.
- Remove the loudspeaker.
- ☒ Before you install a replacement loudspeaker, check the adhesive gasket:
 - If it is in good condition, you can re-use the gasket. Make sure that the gasket does not cover the exit hole.
 - If the gasket is pulled out of place, remove it and replace the adhesive with a pre-cut strip or [Tesa tape](#).

Step 29



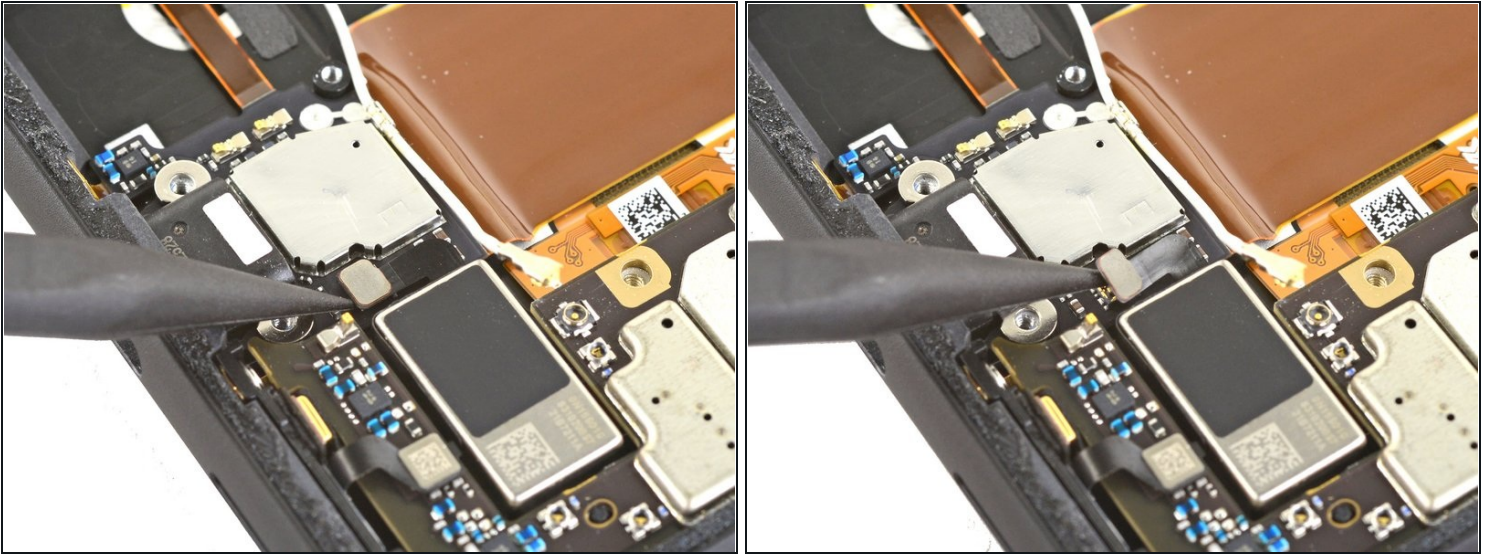
- Use the flat end of a spudger to disconnect the charging cable connector by prying it straight up from the motherboard.

Step 30 — Isolate the charging assembly



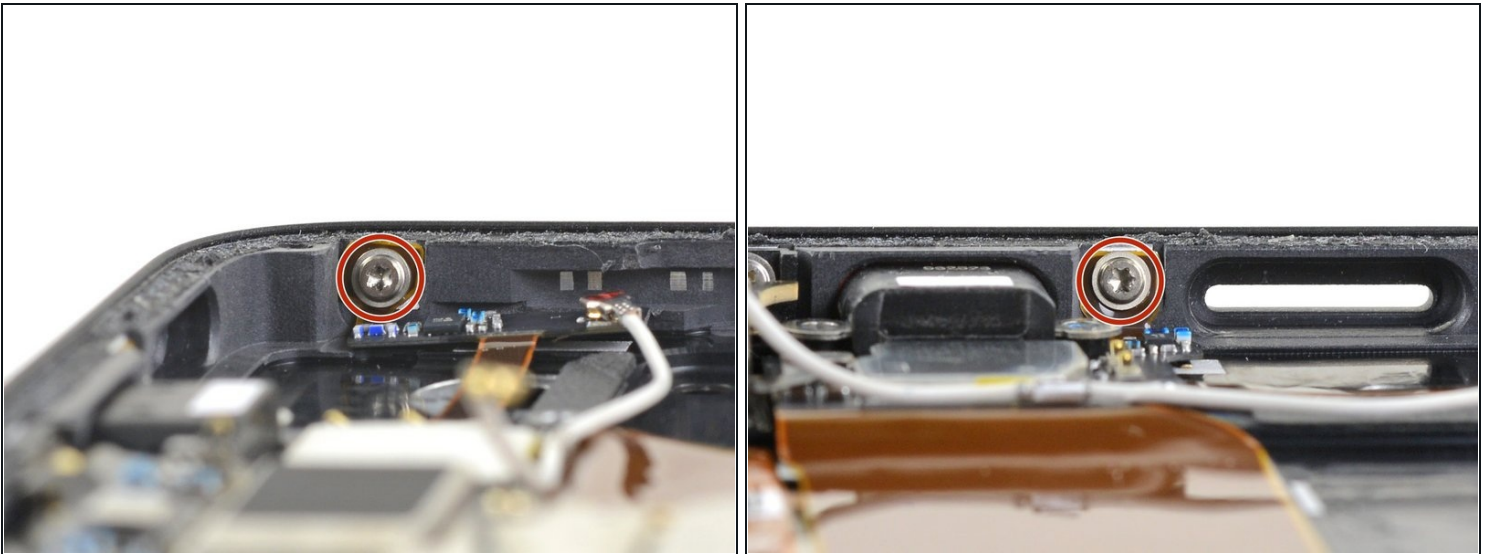
- Use a pair of tweezers to disconnect the [antenna press connector](#) from the charging assembly by pulling it straight up from the motherboard.

Step 31



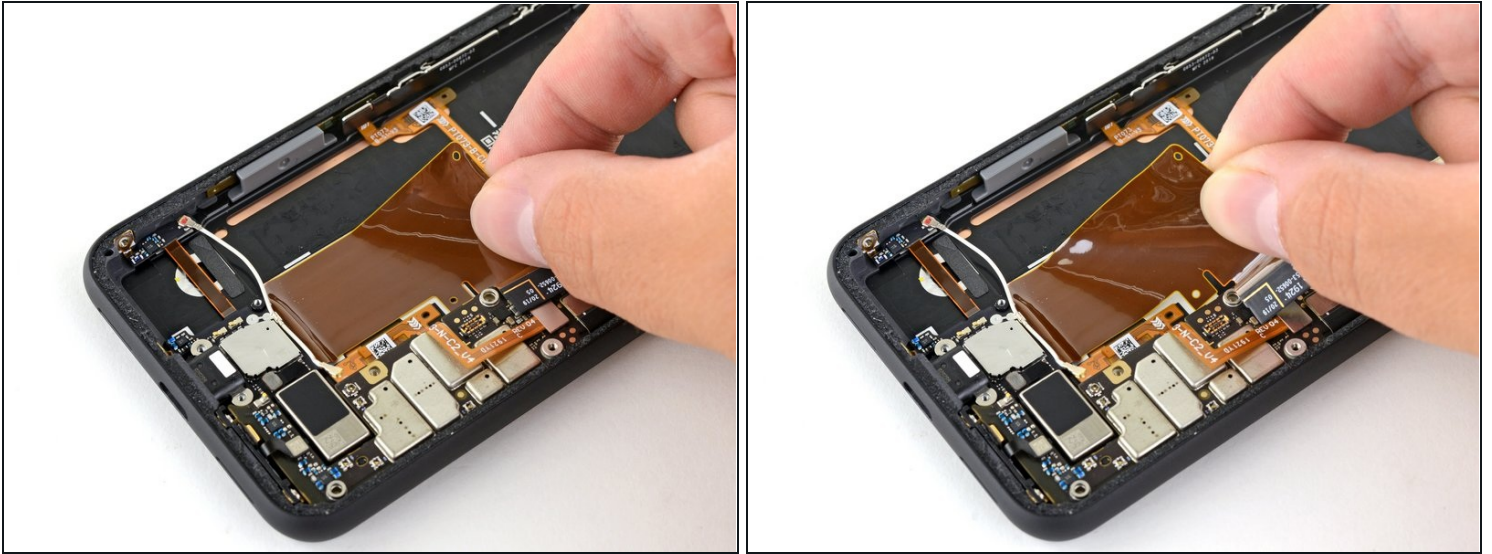
- Disconnect the vibration motor connector from the charging assembly.

Step 32



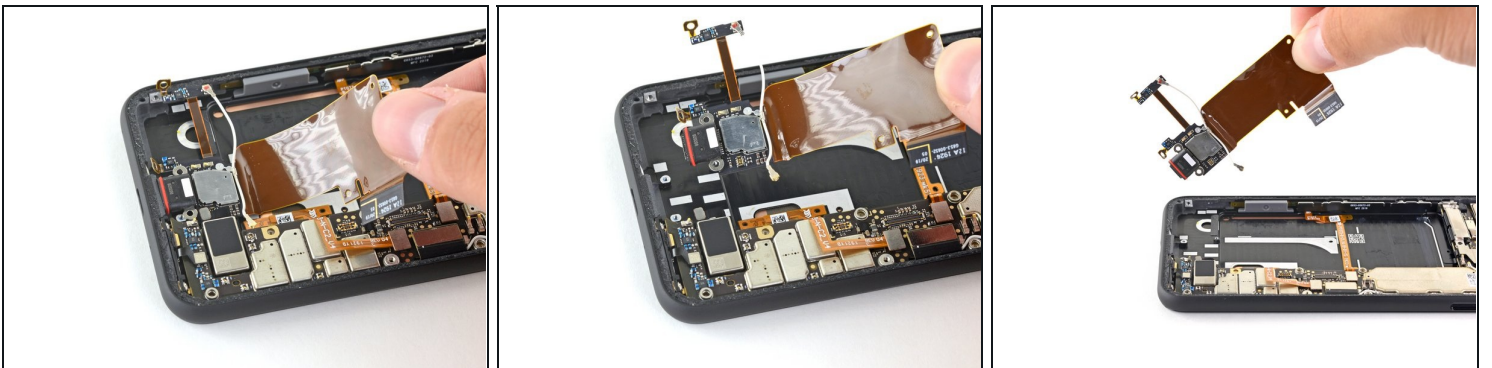
- Use a T3 Torx driver to remove the two 2.1 mm screws securing the charging assembly to the frame, one on the left side and one on the bottom side.

Step 33 — Remove the charging assembly



- Peel back the ribbon cable that's adhered to the phone's frame. It's secured with some light adhesive.

Step 34



- Remove the charging assembly.
 - ① If your replacement charging assembly doesn't come with the white antenna cable, you'll need to transfer it to your new part.

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.

To reassemble your device, follow the above steps in reverse order.

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.