



Google Pixel Daughterboard Replacement

Replace the daughterboard on the Google Pixel.

Written By: Camaryn Chambers



INTRODUCTION

If the device doesn't charge or won't record audio, then the microphone and charging port may need to be replaced. These components are located on the daughterboard.

TOOLS:

- [Suction Handle](#) (1)
 - [iFixit Opening Picks set of 6](#) (1)
 - [iFixit Opening Tools](#) (1)
 - [Spudger](#) (1)
 - [T5 Torx Screwdriver](#) (1)
 - [Tweezers](#) (1)
 - [iOpener](#) (1)
-

Step 1 — Display



- Turn off the device.
- [Prepare an iOpener](#) to heat the edges of the display and soften the adhesive underneath. Alternatively, you may use a heat gun or a hair dryer.
- ⓘ The surfaces near the speaker and microphone (top and bottom respectively) have larger adhesive sections. These areas may require slightly longer heat exposure. The display should be heated until it's slightly too hot to touch, for roughly two minutes.

Step 2



ⓘ In the following steps, you will separate the display panel by slicing through the adhesive bonding the display to the Pixel's chassis.

- For reference, the back of the display panel is shown at left. Note the narrow clearance between the side of the display unit and the OLED panel.

⚠ Inserting an opening tool deeper than 1.5 mm into the sides of the device, or 9 mm into the top and bottom can permanently damage the display.

Step 3



- Use a [suction handle](#) to pull up on the display and create a slight gap between the display and the phone's chassis.
- ⓘ If your display is cracked, [cover it with packing tape](#) to help the suction cup adhere and prevent glass shards from popping loose.

Step 4



- Insert an opening pick or a playing card into the gap between the chassis and the display assembly.
- Begin to slide the opening pick around the edge of the display, cutting through the adhesive that secures it.

⚠ The display panel is fragile. If you plan to re-use your display, take care to insert your tool only as far as necessary to separate the adhesive. Inserting the tool any further can damage the OLED panel under the glass.

Step 5



- Continue carefully separating the adhesive around the rest of the device.

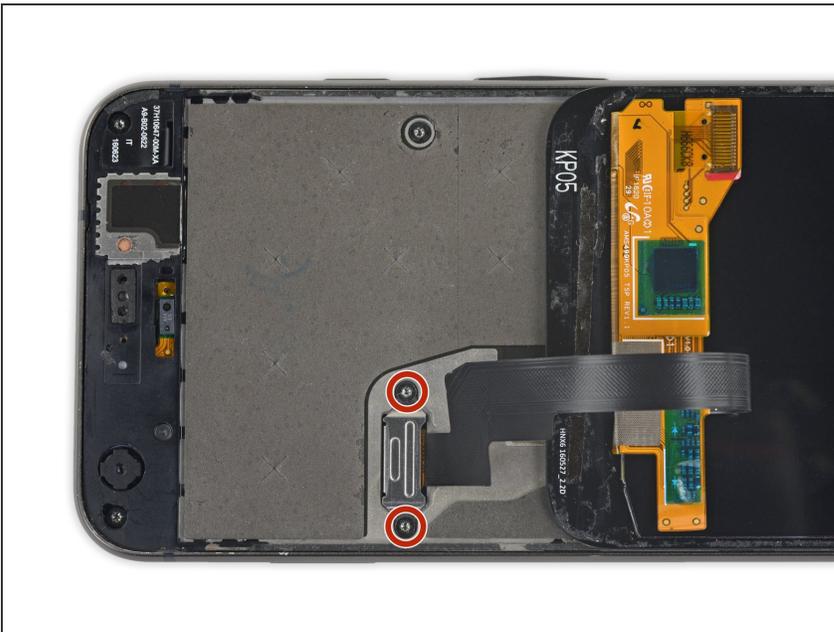
⚠ Take extra care with the side bezels, which are only 1.5 mm deep.

Step 6



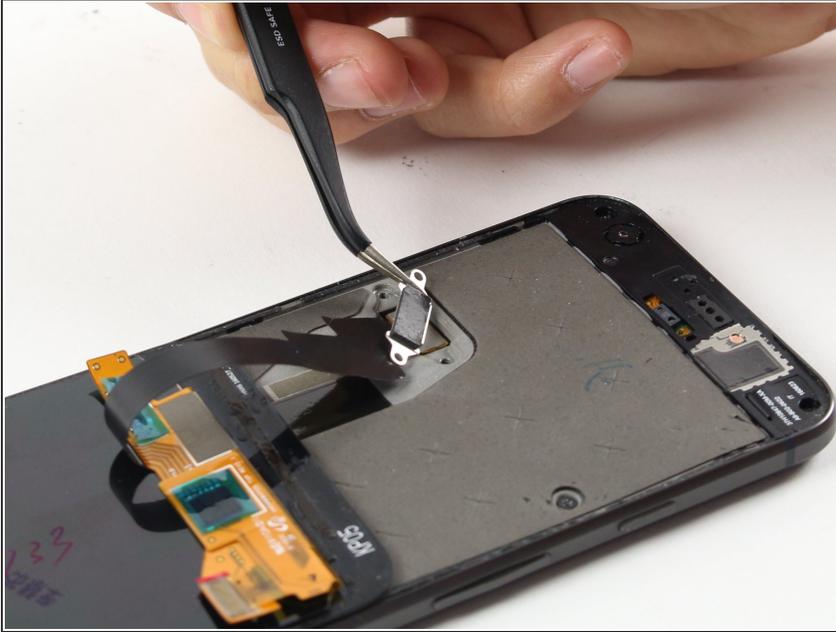
- With the adhesive cut, slowly lift the display up from the top (the side with the speaker-grille cutout), carefully flip it over vertically toward the bottom of the device, and rest it on its face, as shown.
- ⚠ Do not attempt to completely remove the display yet, as it is still connected by a fragile ribbon cable. Be careful to not to strain the cable while positioning the display.

Step 7



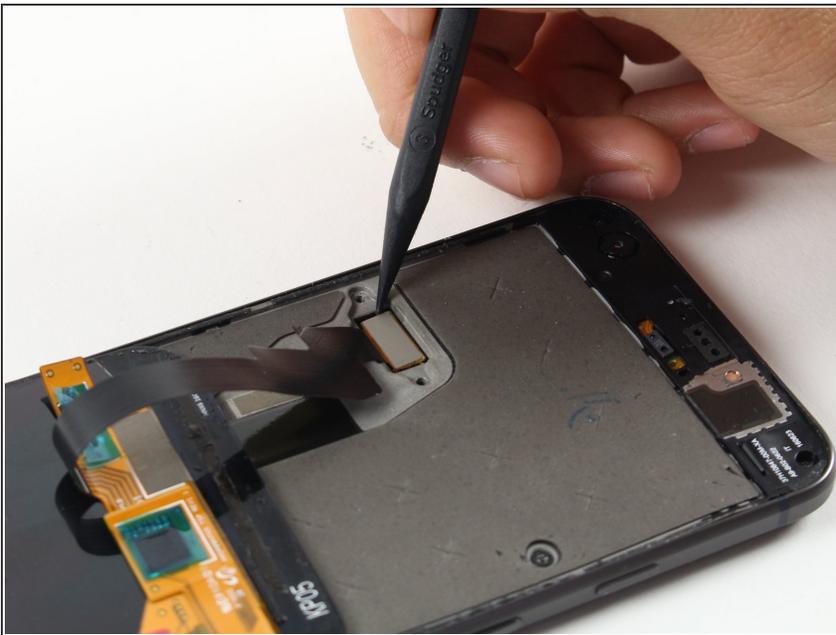
- Use a T5 Torx driver to remove the two black 3.5 mm T5 screws securing the display cable connector bracket.

Step 8



- Use tweezers to remove the bracket that holds the display connector in place.

Step 9



- Use a spudger to pry up the [display cable connector](#), freeing the display.

Step 10



- Remove the display.
- ★ Some replacement displays do not come with an [earpiece speaker grille](#). If your replacement screen doesn't have one, be sure to transfer the grille from your old display to the new one.
- ★ During reassembly, pause here to test the functionality of your new part and [replace the display adhesive](#).

Step 11 — Midframe



- Use a T5 Torx driver to remove the nine 3.5 mm screws securing the midframe.

Step 12



- The midframe is held tightly in place by five clips. To release these clips, apply inward pressure with an opening tool as shown in the steps below.

Step 13



- Wedge an opening pick into the notch that is located at the bottom right corner of the phone.

Step 14



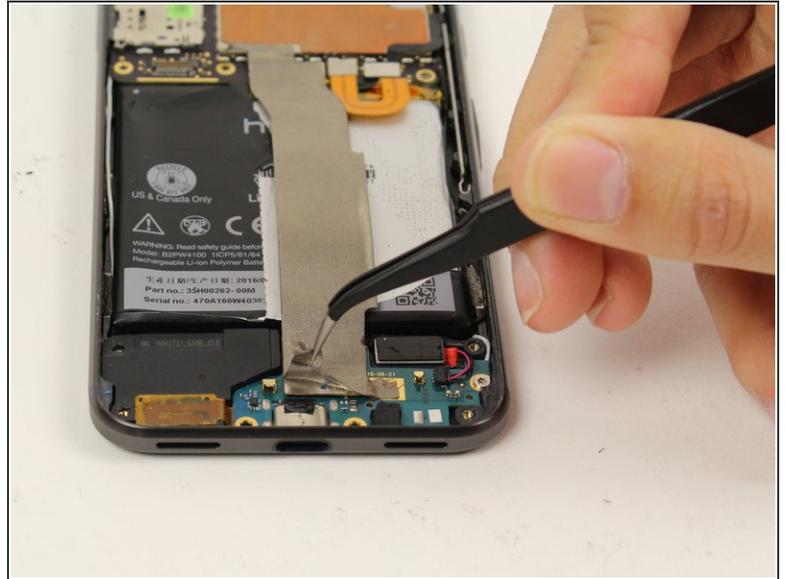
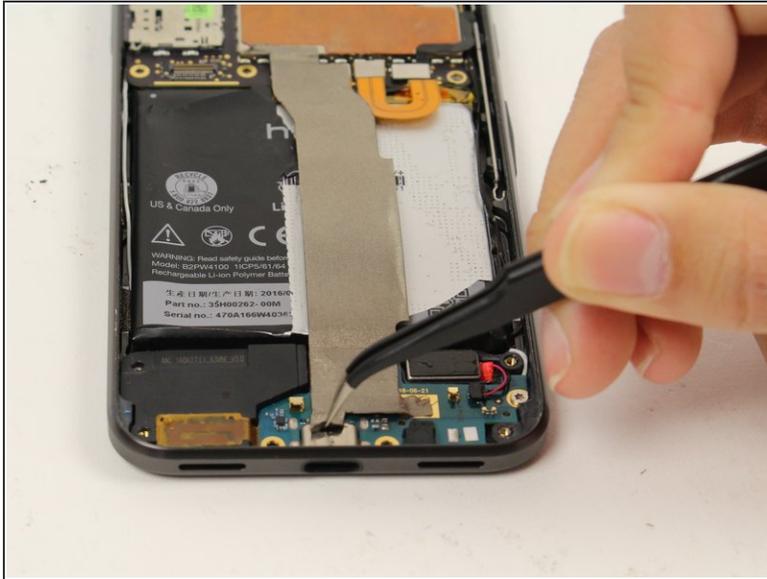
- Slide the opening pick up both sides of the device in the small space between the midframe and the rear case to release the clips holding it in place.
- ⓘ Note that the clips are not released by sliding *through* them, but rather the inward pressure the opening pick creates as it enters the gap *around* them.
- ⓘ If the clasps fail to come undone, try pushing the edge you're working on inward with your hand, or using a thicker tool like a spudger.
- ⚠ Do not attempt to remove the midframe yet! There is still a fragile ribbon cable underneath connecting the earpiece speaker to the motherboard.

Step 15



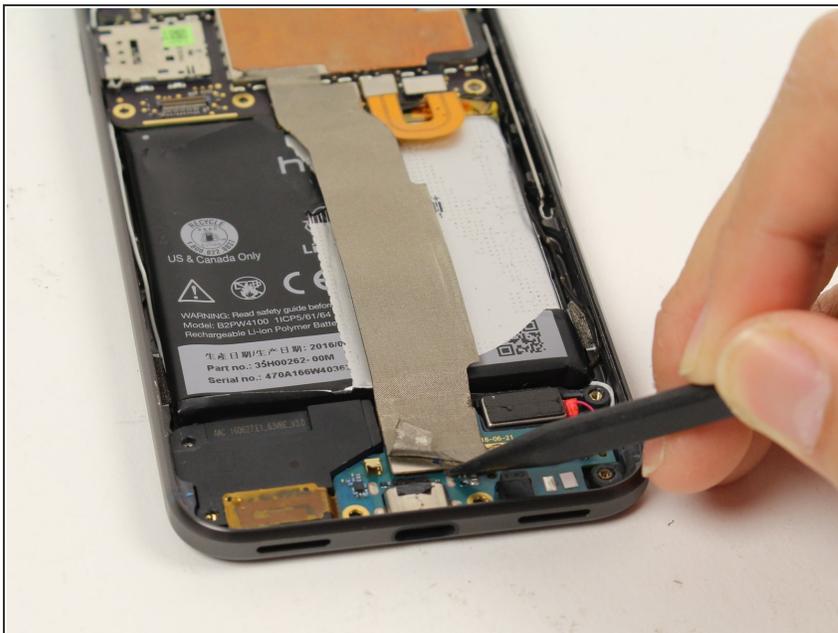
- Use a spudger to pry the earpiece speaker cable connector straight up, disconnecting it from the motherboard.
- Remove the mid-frame from the device.
- ☞ During reassembly, reattach the earpiece speaker cable and insert the top side of the midframe before you snap the clips back into place.

Step 16 — Daughterboard



- Use tweezers to lift up the silver strip at the top of the daughterboard, and peel it back to expose the connector underneath.

Step 17



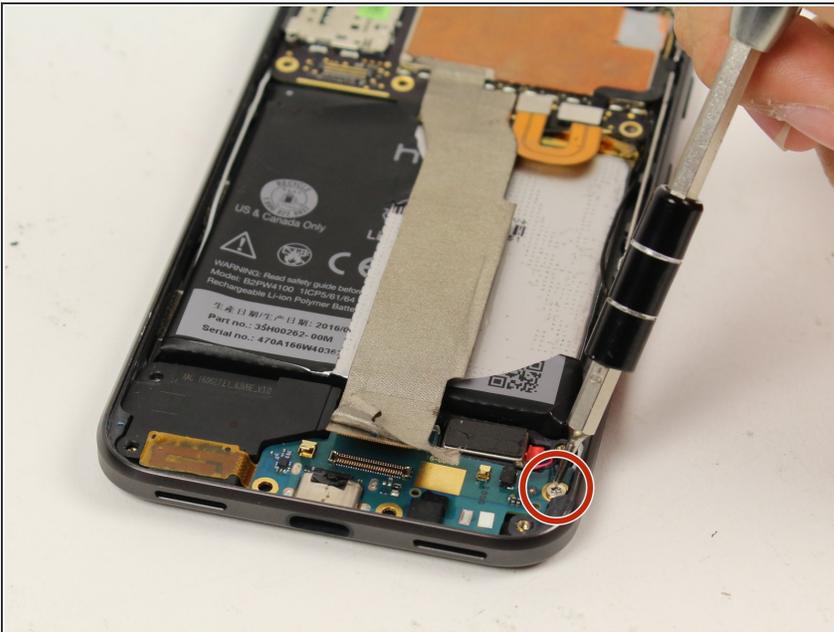
- Use a spudger to disconnect the interconnect ribbon cable from the daughterboard.

Step 18



- i The vibration motor is connected to the daughterboard with a small [socket connector](#).
 - To disconnect the cable, use tweezers to carefully pull the connector away from the socket by its cables.
 - ⚠ The connector should come out of the socket easily. If it does not, don't pull on the cables with force. Instead, use an opening tool to gently pry it out.

Step 19



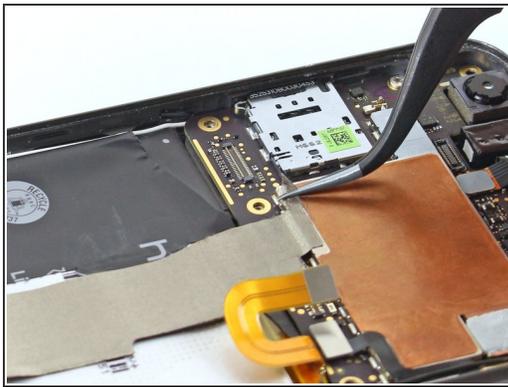
- Remove the silver 2.5 mm T5 screw holding the daughterboard in place.

Step 20



- Using tweezers, lift the contact pads located to the left of the daughterboard.

Step 21



i Optionally, you can pause here to remove the interconnect cable from the motherboard to keep it out of the way during the rest of the daughterboard removal process.

- To do so, peel back the sticker on the motherboard side and use a spudger to lift the connector straight up.

! If you choose to remove this interconnect cable, ensure that it is reinstalled in the same orientation. The phone will not power on if the cable is installed upside down.

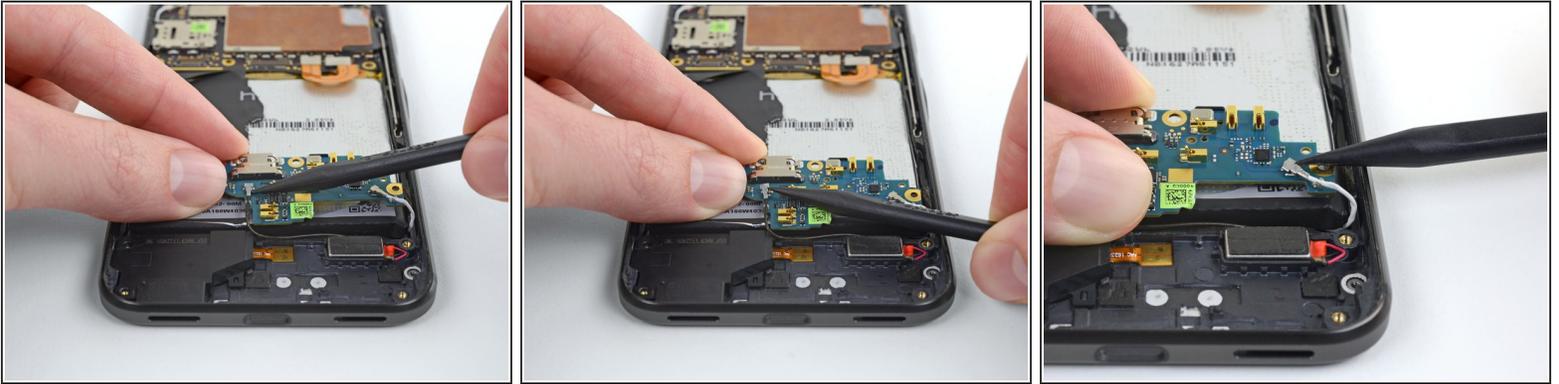
Step 22



- Using tweezers, lift the daughterboard up and flip it over onto the battery.

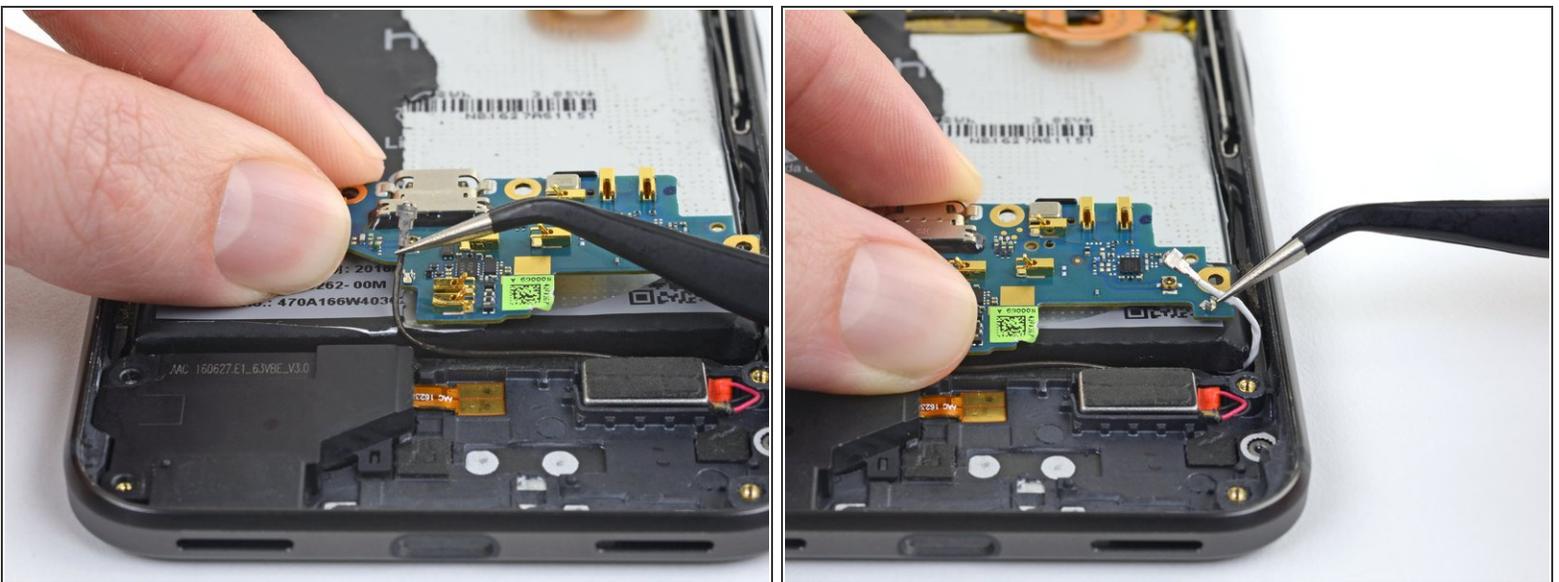
⚠ Don't try to remove the daughterboard yet! There are still two coaxial cables connected to its underside.

Step 23



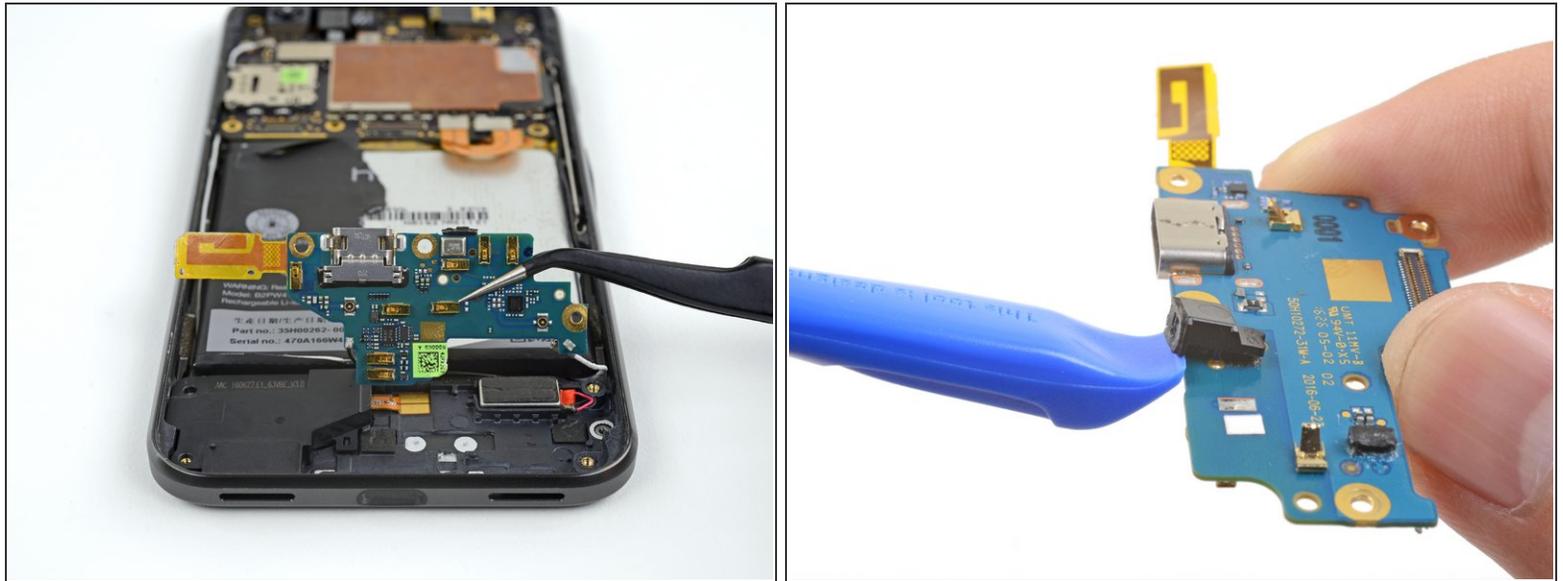
- Use a spudger to pry up the black and white [coaxial cables](#) attached to underside of the daughterboard.
- ⚠ Coaxial cable connectors and sockets are fragile. To avoid damaging the connectors, be sure to gently pry them straight off of the board.
- ☑ When reconnecting these cables, lay the daughterboard upside down on the battery and use tweezers to carefully position each connector over its socket on the board, then press it straight down until it snaps into place.

Step 24



- Use tweezers to carefully pull each coax cable out of its retaining clip.

Step 25



- Remove the daughterboard from the device.
- ✦ If your replacement part does not come with a plastic barometric vent, use the edge of an opening tool to gently lift the vent off of the old daughterboard and transfer it to the new one.
- ⓘ You may need to use some adhesive or double-sided tape in order to attach the vent to the new part. If you do, be sure not to cover the vent hole on the bottom.

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? Check out our [Answers community](#) for troubleshooting help.