



Google Pixel 2 XL Battery Replacement

Replace a dead or worn-out battery in a Google Pixel 2 XL.

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INTRODUCTION

Use this guide to replace the worn-out battery in your Google Pixel 2 XL.

Before disassembling your phone, discharge the battery below 25%. A charged lithium-ion battery can catch fire and/or explode if accidentally punctured.

If your battery is swollen, [take appropriate precautions](#). Do not heat your phone. If needed, you can use a dropper or syringe to inject isopropyl alcohol (90+%) around the edges of the back cover to weaken the adhesive. Swollen batteries can be very dangerous, so wear eye protection and exercise due caution, or take it to a professional if you're not sure how to proceed.

For optimal performance, [calibrate](#) your newly installed battery: Charge it to 100% and keep charging it for at least 2 more hours. Then use your device until it shuts off due to low battery. Finally, charge it uninterrupted to 100%.



TOOLS:

- [iFixit Opening Picks set of 6](#) (1)
- [Tweezers](#) (1)
- [Spudger](#) (1)
- [Suction Handle](#) (1)
- [iFixit Opening Tools](#) (1)
- [iOpener](#) (1)
- [Phillips #00 Screwdriver](#) (1)



PARTS:

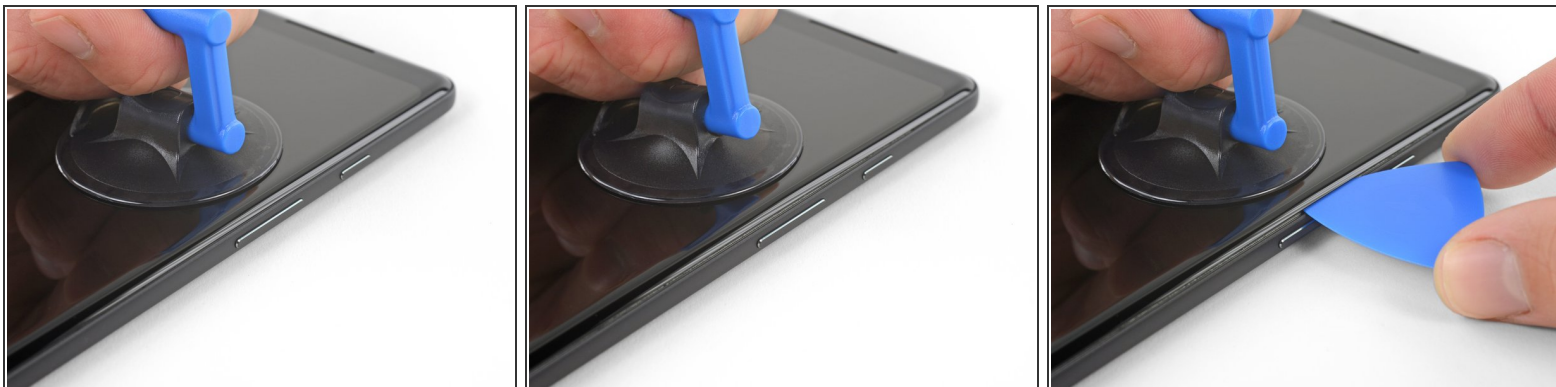
- [Google Pixel 2 XL Replacement Battery](#) (1)
- [Google Pixel 2 XL Display Adhesive](#) (1)
- [Tesa 61395 Tape](#) (1)

Step 1 — Opening Procedure



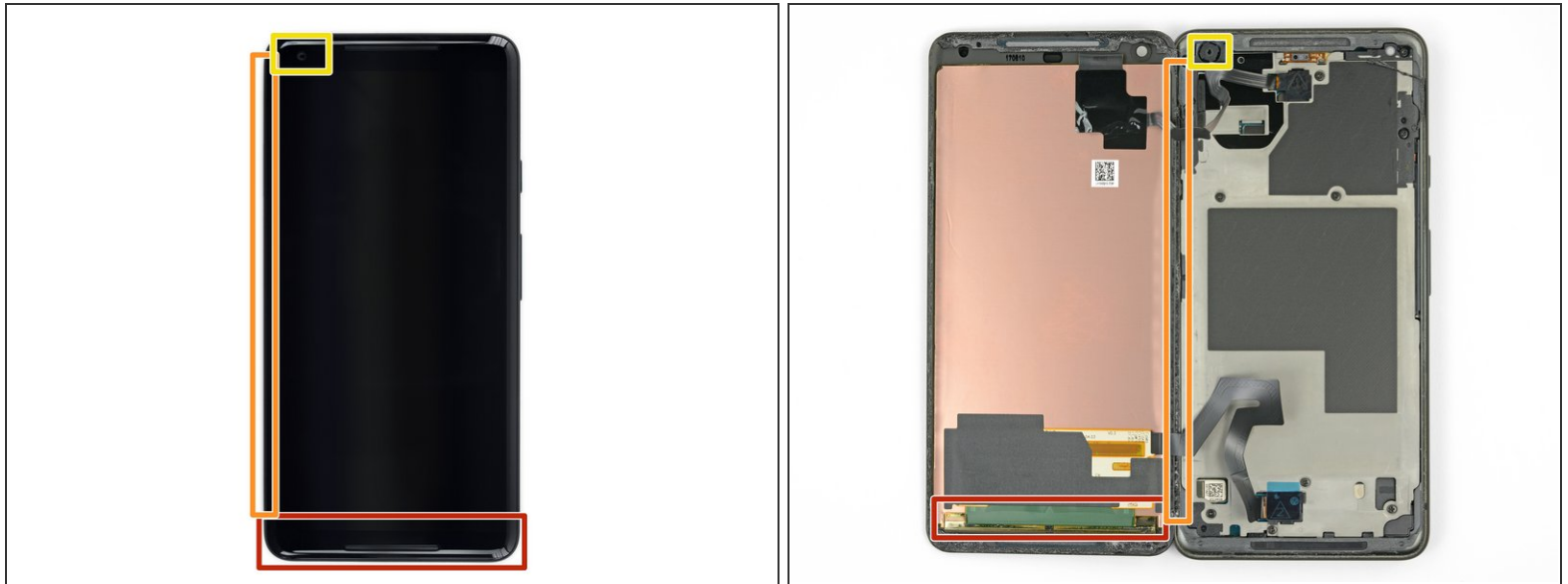
- ⓘ If your display glass is cracked, tape over the glass to prevent bodily harm and further breakage. This also makes a smooth surface allowing the suction cup to bond.
- Apply a suction cup as close to the SIM slot edge of the phone as you can while avoiding the curved edge.
- ⓘ The suction cup will not make a good seal on the curved portion of the glass.

Step 2



- Pull up on the suction cup with firm, constant pressure and insert an opening pick between the front panel and rear case.
- ⓘ This requires a significant amount of force and patience. If you have trouble, rock the suction cup and screen to weaken the adhesive, or apply heat with an iOpener, heat gun, or hair dryer.

Step 3



 In the following steps, extra caution is required in certain areas to avoid damage to the phone:

- Do not insert the pick more than 0.25 inches (6 mm) into the bottom edge of the phone. If the pick contacts the folded portion of the OLED panel, it can damage the display.
- Do not cut along the left edge; there are delicate display cables that can be damaged.
- Only make very shallow cuts in the upper left corner; prying deeply can damage the front-facing camera.

Step 4



- Slide the opening pick down the right side of the phone to separate the display adhesive.

Step 5



- i** In the following steps, use the flat edge of the opening pick, rather than a corner, to cut. This will help prevent inserting the pick too deeply.

- Slide the opening pick around the lower-right corner and along the bottom edge of the phone.

Step 6



- Reinsert the flat edge of the pick at the top-right corner of the phone, and slide it around the corner and the top edge of the phone.

Step 7



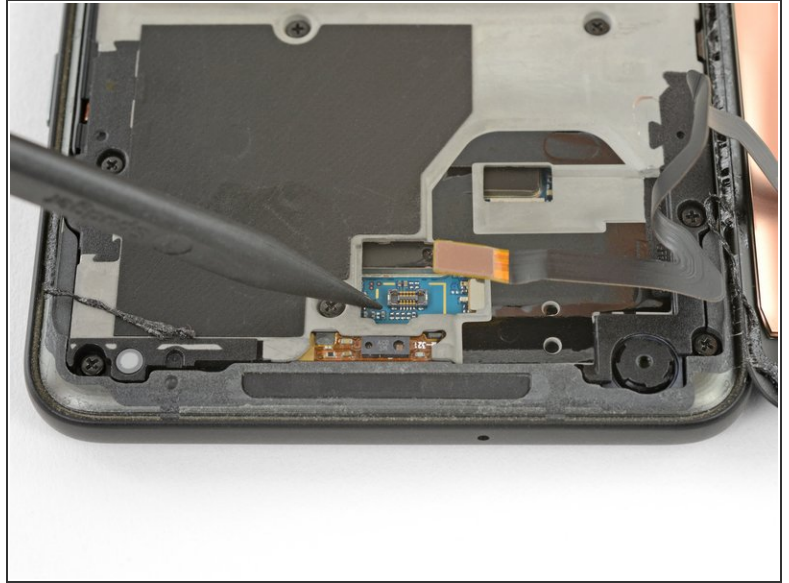
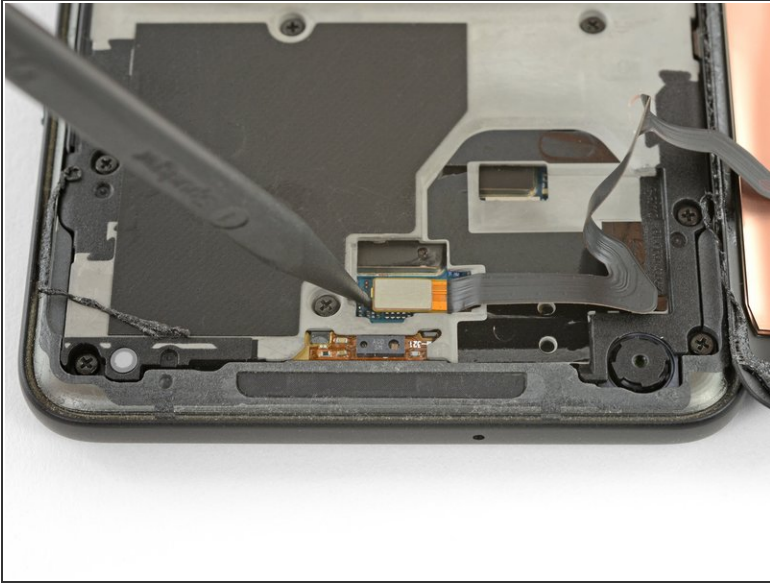
- Gently lift the display from the right side of the phone, opening it like a book.
 - ⓘ If the display doesn't readily lift, do some extra prying to separate the last of the adhesive.
- ⚠ Don't try to fully separate the display yet, as fragile ribbon cables still connect it to the phone's motherboard.
- Carefully lay the display flat on the table next to the rest of the phone, keeping it close to the phone to avoid straining the display and digitizer cables.

Step 8



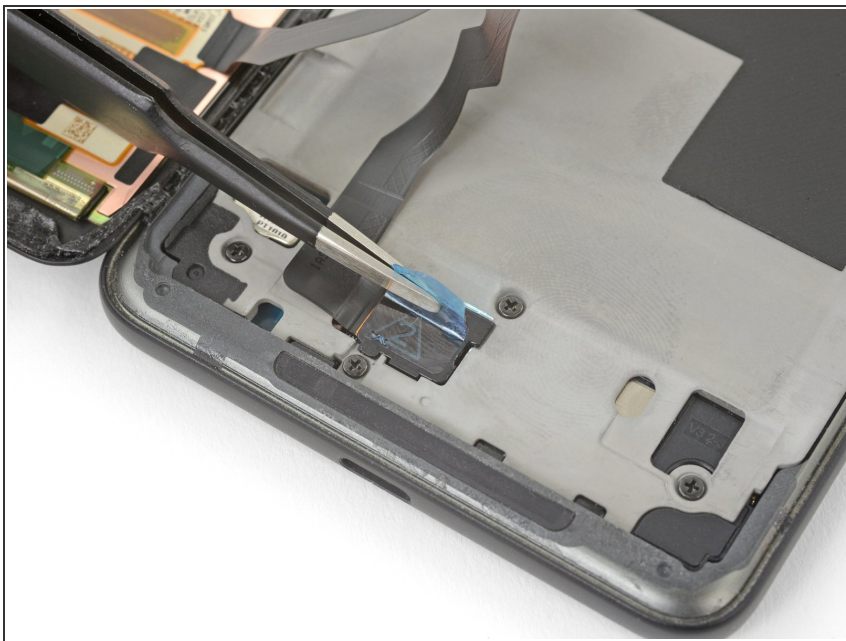
- Use the corner of an opening tool to pry up the digitizer cable connector cover.
- ⓘ Pry carefully to avoid damaging the cable underneath, or losing the cover itself.
- Remove the connector cover.

Step 9



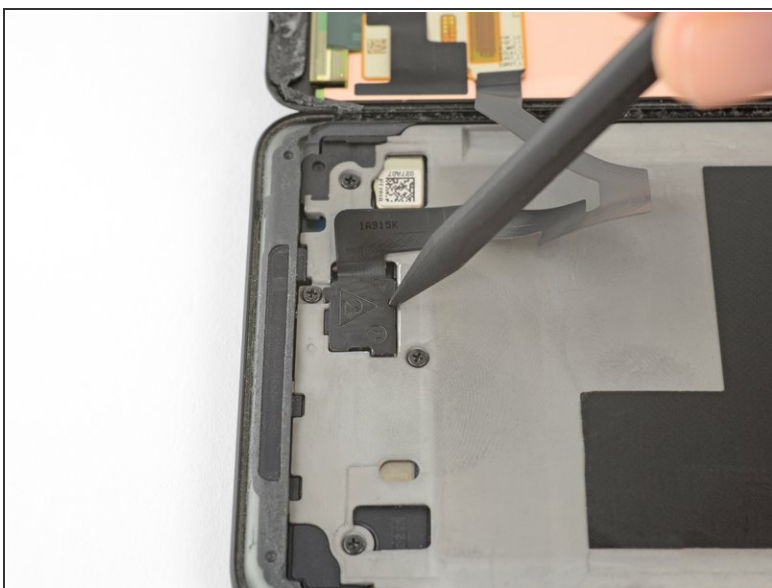
- Use the point of a spudger to lift the digitizer cable connector up and out of its socket on the motherboard.
- ✦ To re-attach [press connectors](#) like this one, carefully align and press down on one side until it clicks into place, then repeat on the other side. Do not press down on the middle. If the connector is misaligned, the pins can bend, causing permanent damage.
- ✦ If any part of your screen doesn't respond to touch after your repair, re-seat this connector, making sure it clicks fully into place and that there's no dust or other obstruction in the socket.

Step 10



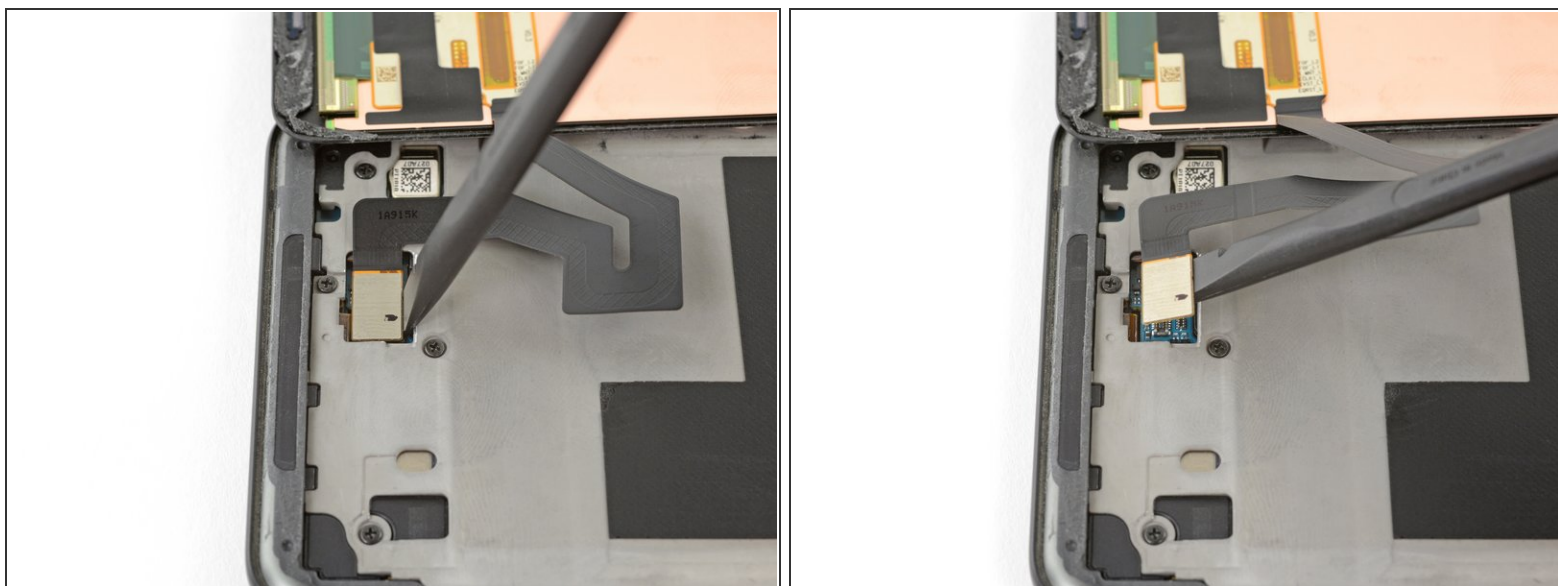
- Use tweezers to remove any tape from the display connector cover.

Step 11



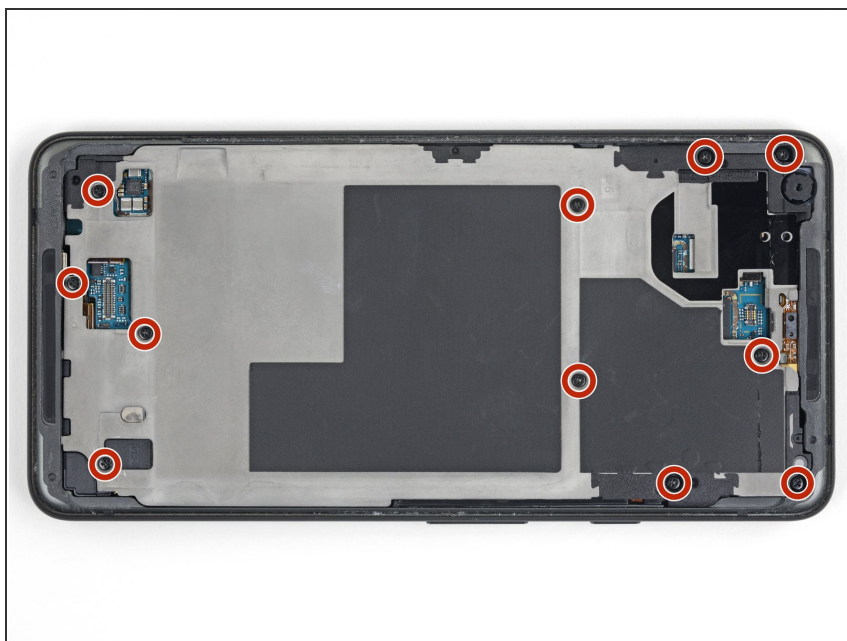
- Insert the point of a spudger into the small hole on the edge of the display connector cover.
- Use the spudger to pry the cover out of its recess.
- Remove the connector cover.

Step 12



- Use the flat edge of a spudger to lift the display cable connector up from its socket.
 - Remove the display.
- ☒ During reassembly, pause here if you wish to [replace the adhesive around the edges of the display](#).

Step 13 — Midframe



- Remove eleven 3.8 mm Phillips screws securing the midframe.

Step 14



- Insert an opening tool into the notch in the midframe near the volume buttons and pry the midframe up and away from the rest of the phone.
- Remove the midframe.

Step 15 — Battery Connector



- Use the flat end of a spudger to disconnect the battery connector.

Step 16 — Battery



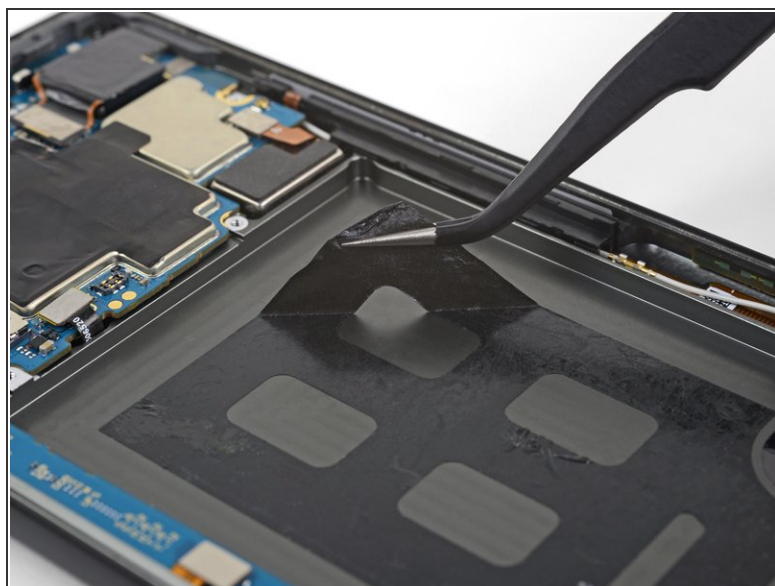
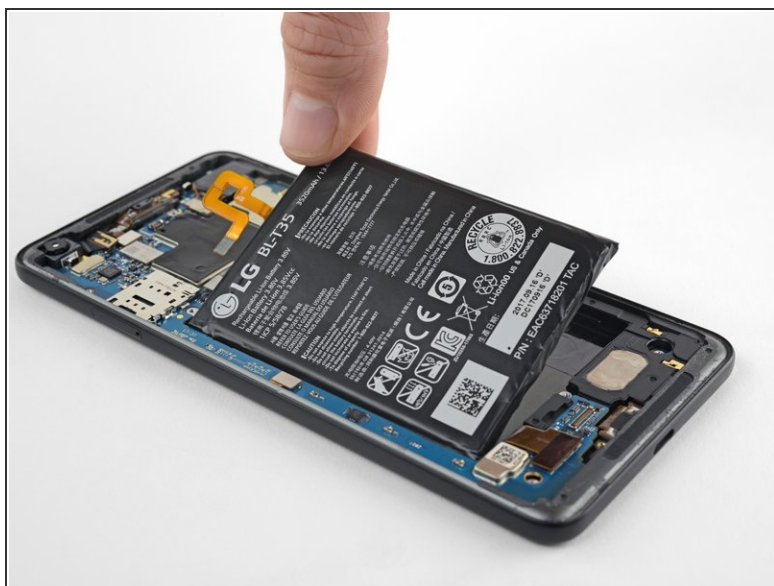
- If available, apply some isopropyl alcohol under each corner of the battery and allow it to penetrate for several minutes to help weaken the adhesive.
- Alternatively, apply a [heated iOpener](#) to the back of the phone over the battery for at least two minutes. Reheat and reapply the iOpener as needed until the battery adhesive is sufficiently weakened.

Step 17




- Insert a couple of opening picks or a plastic card along the right edge of the battery.
 - Apply steady, even pressure to *slowly* lever the battery up and out of the phone.
- ⚠ Try your best not to deform the battery during this process. Soft-shell lithium-ion batteries can leak dangerous chemicals, catch fire, or even explode if damaged. Do not use excessive force or pry at the battery with metal tools.

Step 18



- Remove the battery.

 Do not reuse the battery after it has been removed, as doing so is a potential safety hazard. Replace it with a new battery.

- To install a new battery:
 - Use tweezers to peel away any remaining adhesive from the phone, and clean the glued areas with isopropyl alcohol and a lint-free cloth.
 - Secure the new battery with pre-cut adhesive or double-sided adhesive tape. In order to position it correctly, apply the new adhesive into the phone, not directly onto the battery. The adhesive should not touch any of the cables under the battery.
 - Press the battery firmly into place for 20-30 seconds.

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.