Huawei P20 Pro Battery Replacement

This guide shows how to replace a worn out battery in the Huawei P20 Pro.

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INTRODUCTION

Use this guide to replace a worn out battery in your Huawei P20 Pro.

Opening the Huawei P20 Pro will **damage the waterproof sealing** on the device. If you do not replace the adhesive seals, your phone will **function normally**, but will **lose its water-protection**.

Before disassembling your phone, **discharge the battery below 25%**. If your battery is swollen, do not heat your phone. 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.

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

TOOLS:

- Tweezers (1)
- iOpener (1)
- Spudger (1)
- iFixit Opening Picks set of 6 (1)
- Phillips #00 Screwdriver (1)

PARTS:

- Huawei Mate 10, Mate 10 Pro, or P20 Pro Replacement Battery (1)

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Step 1 — Rear Glass Replacement

- Switch off your phone.

- Use an iOpener to loosen the adhesive beneath the rear glass. Apply the iOpener for at least two minutes. You might want to repeat this step several times during the back cover removal.

- ⓘ The adhesive of the Huawei P20 Pro is of moderate strength, however a hair dryer, heat gun, or hot plate may also be used if you aren't able to open the device with the iOpener. Be careful not to overheat the phone —the OLED display and internal battery are both susceptible to heat damage.

Step 2

ⓘ If the phone's rear glass is cracked, a suction cup may not stick very well. Try lifting it with strong tape, or superglue the suction cup in place and allow it to cure so you can proceed.

● Press a suction cup onto the rear glass close to the bottom edge of the phone.

● Lift the bottom edge with the suction cup, opening a slight gap between the rear glass and the frame.

● Insert an opening pick in the gap and slide it to the bottom right corner. Leave it there to prevent the adhesive from resealing.

Step 3

- Insert a second opening pick and slide it to the bottom left corner. Leave it there to prevent the adhesive from resealing.

Step 4

- Insert a third opening pick at the bottom left corner.

- Slide the tip of the opening pick along the left edge of the phone to cut the adhesive.

- Leave the opening pick in the top left corner of the phone to prevent the adhesive from resealing.

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Step 5

(i) In case you're having trouble to cut the adhesive, reapply the iOpener for another minute to loosen it.

● Insert a fourth opening pick at the top left corner of the phone.

● Slide the opening pick along the upper edge of the phone to cut the adhesive beneath the rear glass and leave it in the top right corner.

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Step 6

- Insert a fifth opening pick at the top right corner of the rear glass.

- Slide the opening pick along the right edge of the phone to cut the remaining adhesive.

- ⚠️ Don't open the phone all the way yet. The proximity sensor flex cable is still connected to the motherboard.

Step 7

- Carefully lift the rear glass until you can reach the connector of the proximity sensor flex cable next to the rear camera assembly.

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Step 8

- Use the flat end of a spudger to pry up and disconnect the proximity sensor flex cable.

Step 9

- Remove the rear glass.

- Before installing fresh adhesive and reassembly, remove any remaining adhesive from the phone, and clean the glued areas with isopropyl alcohol and a lint-free cloth.

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Step 10 — Motherboard Cover and NFC

- Remove the nine Phillips #00 screws (3.4 mm length).

Step 11

- Insert an opening pick under the left side of the motherboard cover that includes the NFC.

- Slide the opening pick towards the top left corner of the phone and twist it to pry the cover out of its plastic clamps.
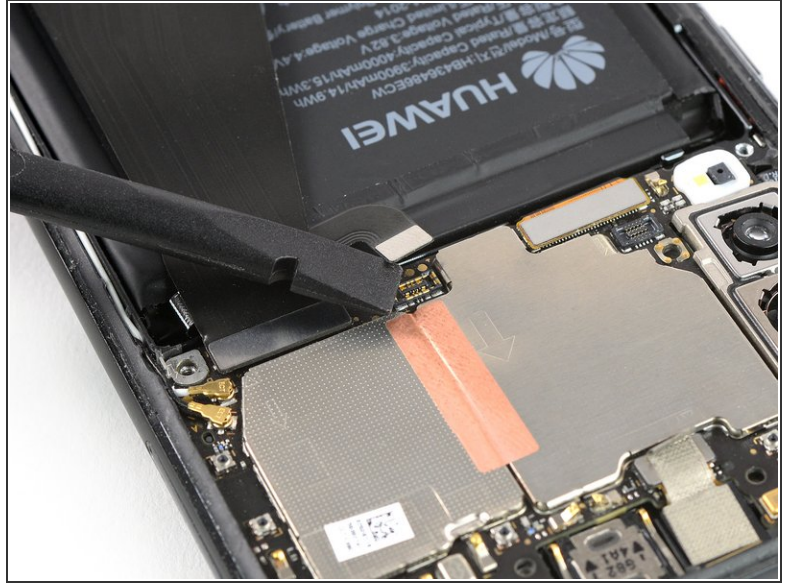
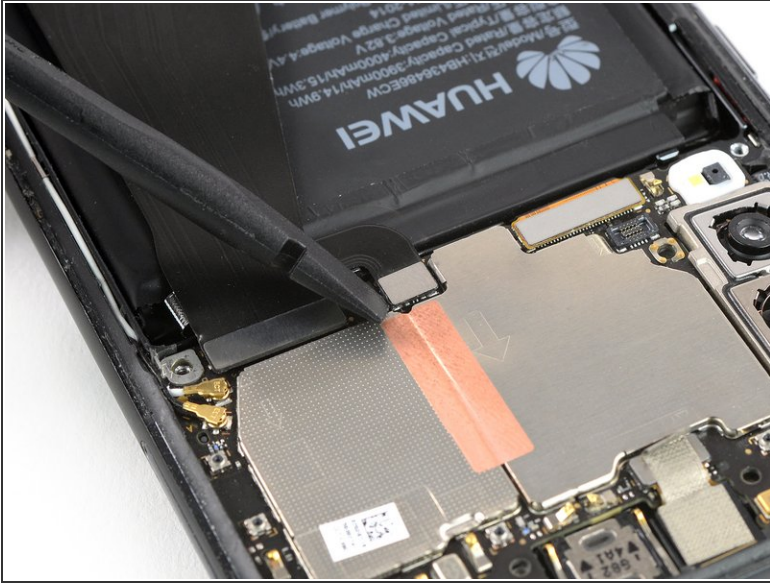This document was generated on 2020-02-20 10:45:50 AM (MST).
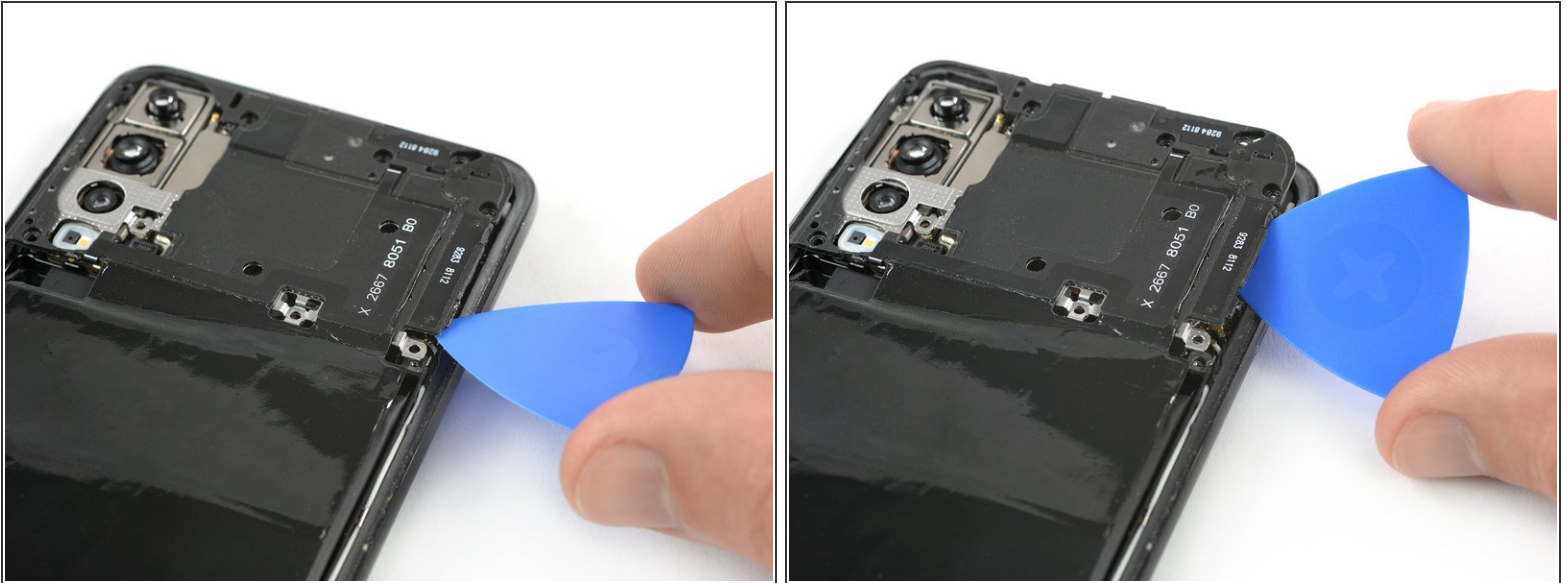
Step 12

- Repeat the previous process on the right side and twist the opening pick to pry up the motherboard cover.

Step 13
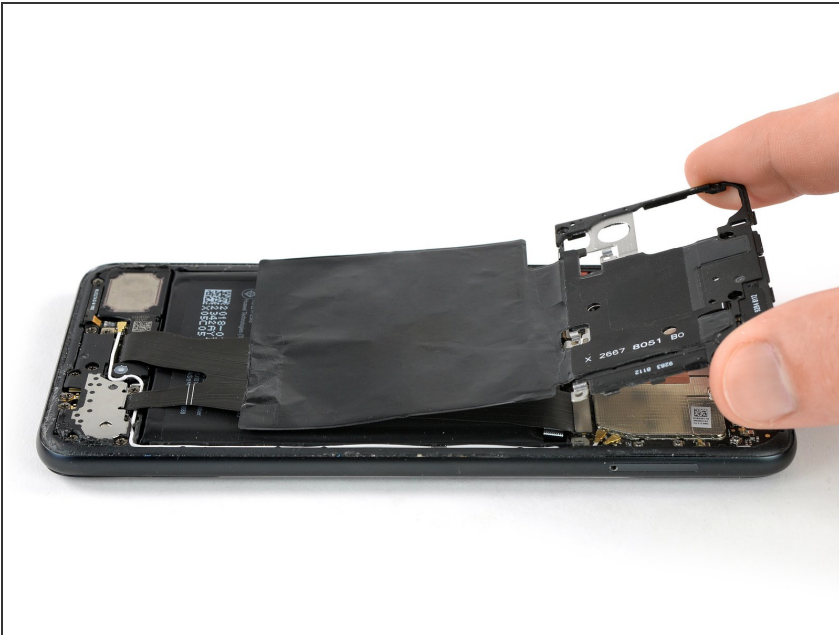
- Remove the motherboard cover.

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Step 14 — Battery Disconnect

- Use the flat end of a spudger to pry up and disconnect the battery flex cable.

Step 15 — Interconnect Cable with Charging Port

- Remove the five Phillips #00 screws (3.4 mm length).

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Step 16

- Use a pair of tweezers to disconnect the antenna cable.

- Use a pair of tweezers to pull the antenna cable out of its routing.
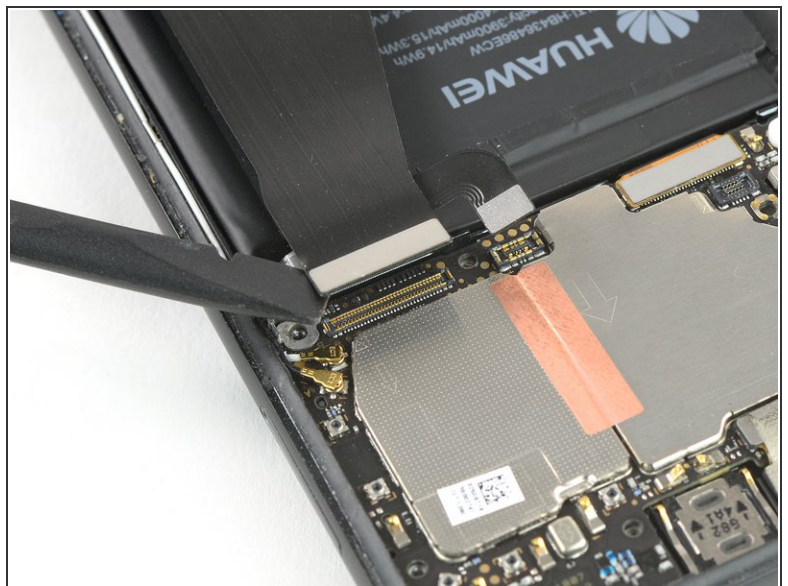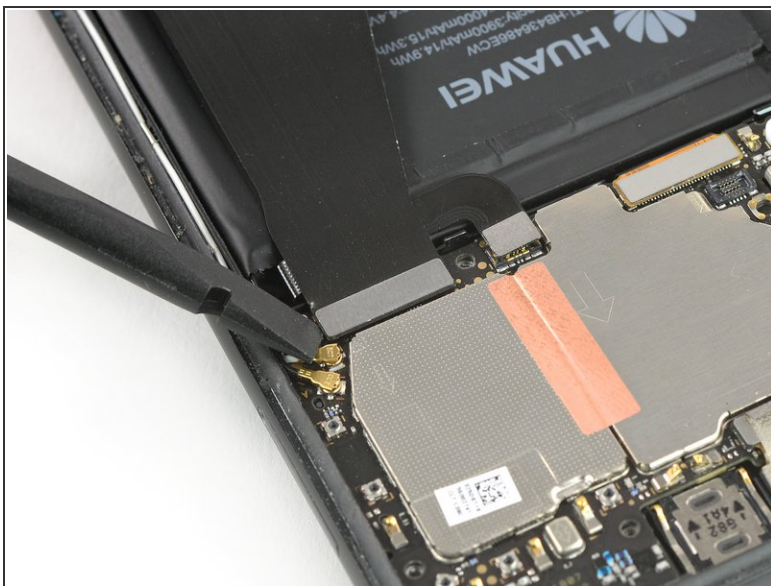
Step 17

- Slide an opening pick under the left side of the daughterboard cover and start to pry it up until you can get a good grip.

- Remove the daughterboard cover.

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Step 18

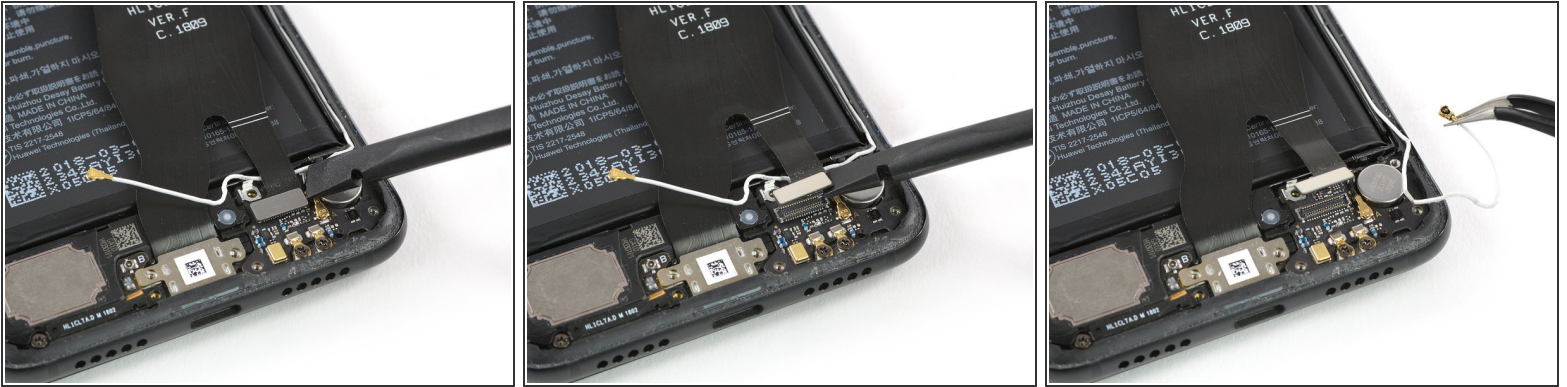● Remove the two Phillips #00 screws (3.4 mm length) on both sides of the USB C port.

Step 19

● Use the flat end of a spudger to pry up and disconnect the upper end of the interconnect and charging port flex cable from the motherboard.

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Step 20

- Use the flat end of a spudger to pry up and disconnect the bottom end of the interconnect and charging port flex cable from the daughterboard.

- Use a pair of tweezers to move the antenna cable out of the way.

Step 21

- Use a pair of tweezers to pull the charging port out of its recess.

- Remove the interconnect cable including the charging port.

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Step 22 — Battery

- [Use an iOpener](#) to loosen the adhesive beneath the battery. Apply the iOpener on the display for at least two minutes.

- In the following step, only apply the spudger in the areas marked in red, which is where the battery adhesive is located.

- Avoid the orange area where the display flex cable is running.

Step 23

ⓘ In case you have trouble to pry up the battery the adhesive may not be loose enough. You can apply some isopropyl alcohol under each corner of the battery and allow it to penetrate for about two minutes to help weaken the adhesive.

⚠️ Try your best not to deform the battery during the following removal 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.

- Insert the flat end of a spudger at the top left corner of the battery and start to pry it up.

- Work your way down the left side of the battery and loosen the adhesive with the spudger.

Step 24

- Insert the spudger at the top right corner of the battery and start to pry it up.

- Work your way down to the bottom end of the battery to loosen all the adhesive.

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Step 25
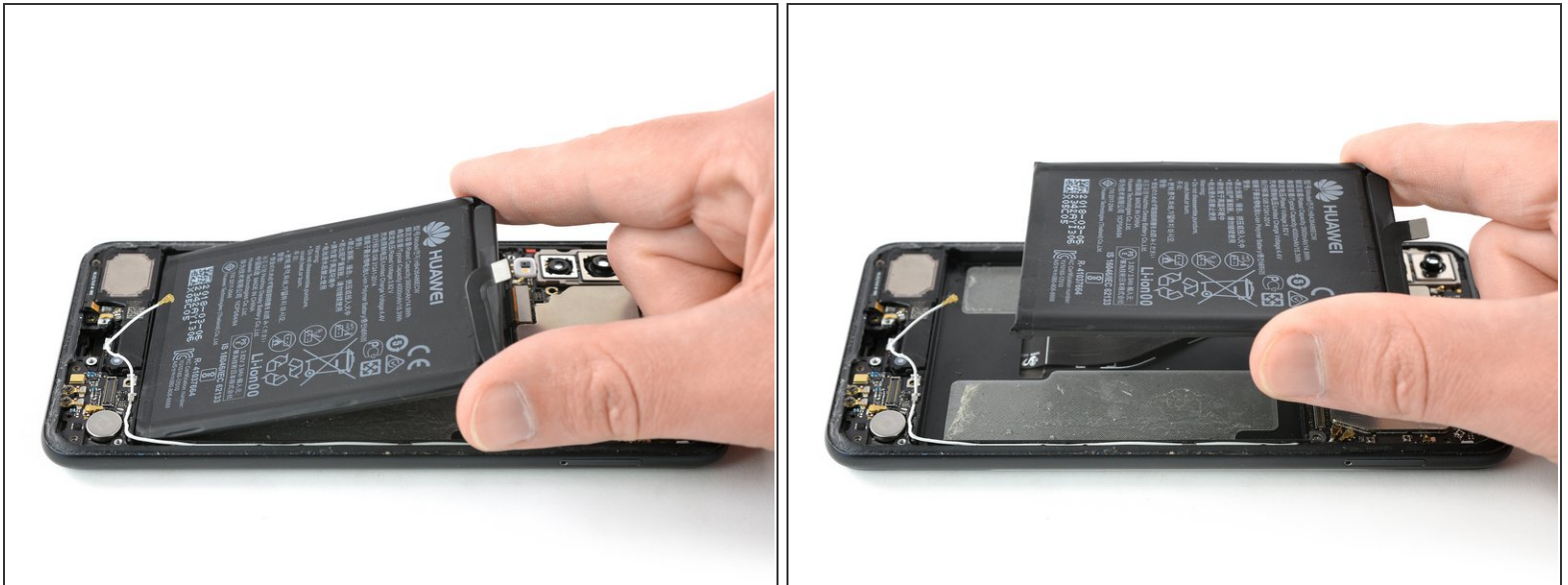
- Remove the battery.

⚠️ Do not reinstall a damaged or deformed battery, as doing so is a potential safety hazard. Replace it with a new battery.

📌 Before installing a new battery remove 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 at the places where the old adhesive was located, not directly onto the battery. Press the new battery firmly into place for 5-10 seconds.

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

If possible, turn on your phone and **test your repair** before installing new adhesive and resealing the phone.

For optimal performance, **calibrate your newly installed battery**: Charge it to 100%, and keep charging it for at least two more hours. Then, use it until it shuts off due to low battery. Finally, charge it uninterrupted to 100%

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.

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