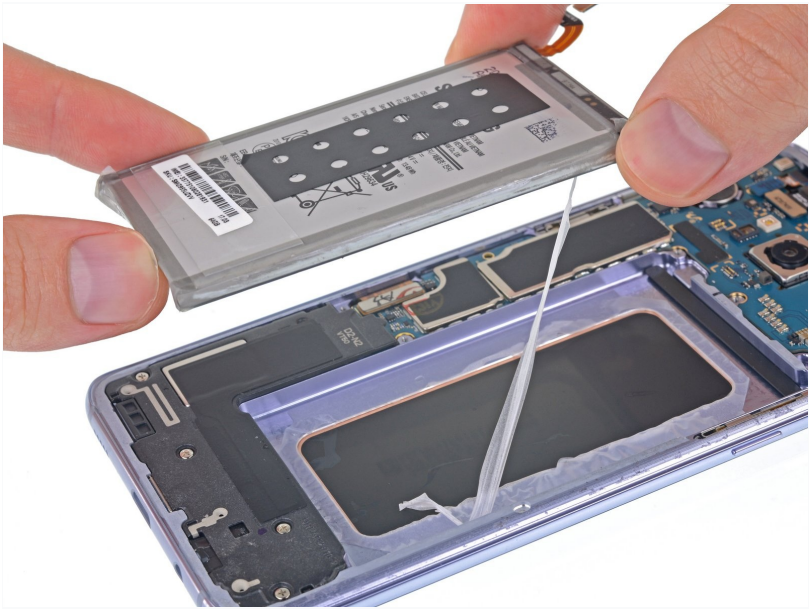
Samsung Galaxy S8+ Battery Replacement

Use this guide to replace the lithium-ion...

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INTRODUCTION

Use this guide to replace the lithium-ion battery in your Galaxy S8 Plus. With daily use, a typical battery will last around 18-24 months before losing significant capacity. If your battery no longer holds a full charge or is causing unexpected shutdowns, you can follow the instructions below to restore your phone to good working order.

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.

TOOLS:

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

PARTS:

- Galaxy S8 Plus Replacement Battery (1)
- Galaxy S8 Plus Battery Adhesive Strips (1)
- Tesa 61395 Double-Sided Tape (1)

Step 1 — Back Glass



ⓘ Opening your phone will compromise its waterproof seals. Have replacement adhesive ready before you proceed, or take care to avoid liquid exposure if you reassemble your phone without replacing the adhesive.

- Prepare an iOpener and heat the back of the phone along its left edge for about two minutes. This will help soften the adhesive securing the back cover.

  ⓘ You may need to reheat and reapply the iOpener several times to get the phone warm enough. Follow the iOpener instructions to avoid overheating.

  ⚠ A hair dryer, heat gun, or hot plate may also be used, but be careful not to overheat the phone—the OLED display and internal battery are both susceptible to heat damage.

Step 2





- In the following steps, you'll be cutting through the adhesive securing the back cover.

ⓘ The adhesive is laid out as seen in the first image, which shows the inside of the cover after it has been removed.

- As seen from outside the phone, you'll be slicing through the adhesive in the areas shown:
  - Thick portions of adhesive
  - Thin areas of adhesive
  - **Avoid prying or slicing in this area, to protect the fingerprint sensor flex cable.**

Step 3





- Secure a suction cup to the back cover, as close to the heated edge as possible.

  ⓘ The suction cup will not make a good seal on the curved portion of the glass, so avoid putting it on the very edge.

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

- Lift the back cover's left edge with your suction cup, opening a slight gap between the back cover and the frame.

  ⓘ This may require a significant amount of force, but you only need to open a very slight gap with the suction cup to insert your tool.

  ⓘ If you have trouble, apply more heat to further soften the adhesive, and try again. The adhesive cools very fast, so you may need to heat it repeatedly.

  ⚠ If you're using an iOpener, follow instructions to avoid overheating it, or the gel pack may burst.

Step 4




- Insert an opening pick into the gap.

⚠ The rear glass can break if you use too much force or attempt to pry with metal tools.

ⓘ Optionally, once the pick is inserted, you can add a few drops of isopropyl alcohol into the gap to help weaken the adhesive in the following steps.

Step 5





- Slide your opening pick along the left edge of the phone to slice through the adhesive securing the back cover.

ⓘ Afterward, it may help to leave the pick in place and grab a second pick as you proceed to the next step. Leaving the pick inserted can help prevent the glue you just separated from re-adhering.

Step 6





- Continue slicing through the adhesive along the bottom edge of the phone.

ⓘ Re-heat the back cover as needed to prevent the glue from cooling and hardening.

ⓘ The glued area is larger here, so you'll need to insert your pick farther into the phone to fully separate it.

- Again, it may help to leave the opening pick in place and grab another one for the following step.

Step 7







- Slice through the remaining adhesive along the top edge and right side.

⚠ You can damage the fingerprint sensor's flex cable if you insert your pick too far in this step. Work carefully and use the diagram in step 2 for guidance.

Step 8

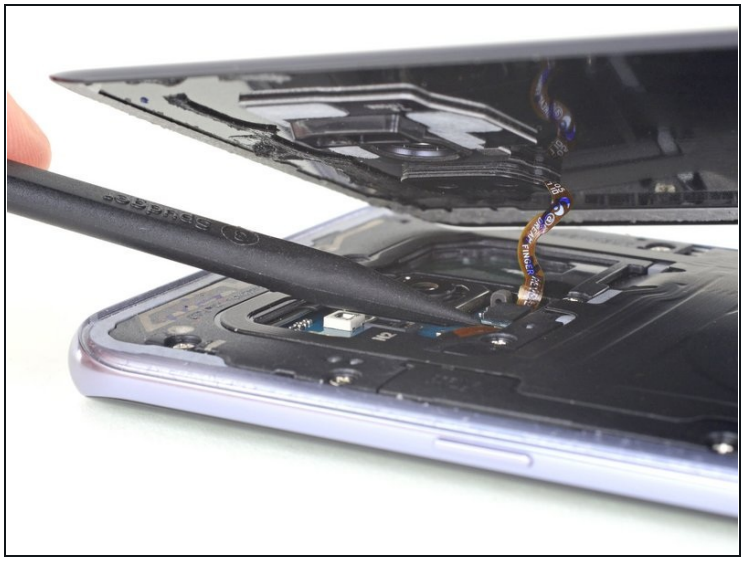


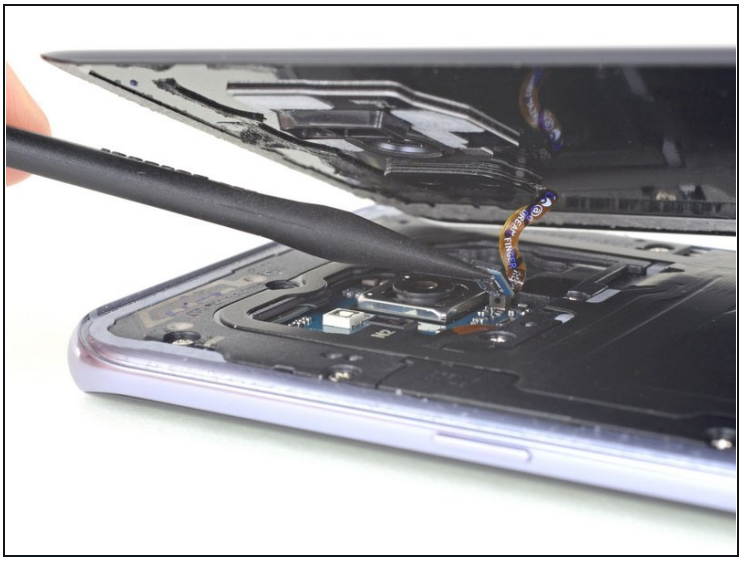


⚠ Don't try to fully remove the back cover yet.

- Lift the back cover from its left edge and hinge it open slightly.

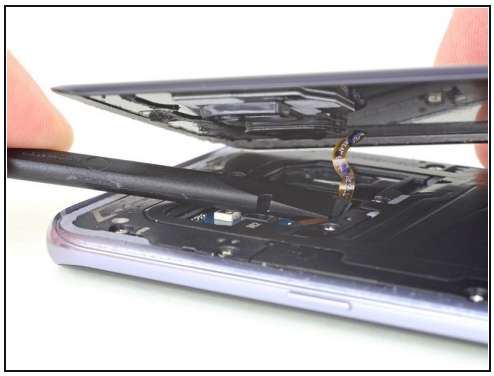
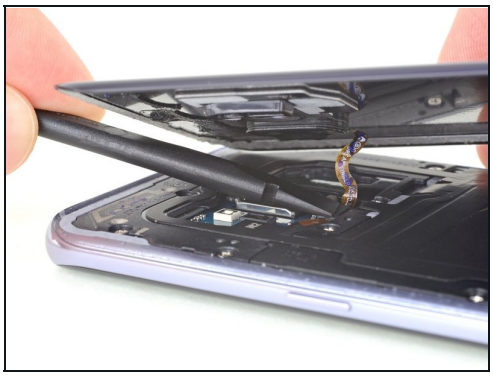
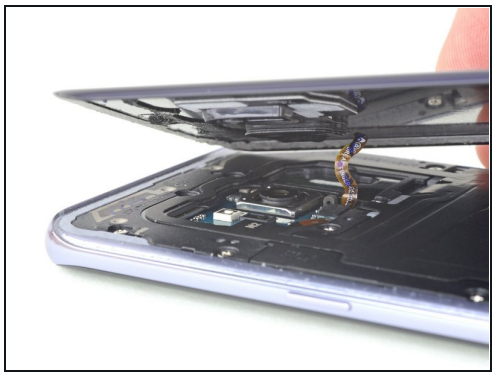
Step 9





- Use the point of a spudger to pry up and disconnect the fingerprint sensor flex cable.

Step 10

During reassembly, in order to reconnect the fingerprint sensor cable, first angle the back cover into position until the cable connector lines up perfectly over its socket.

- Then, use the flat end of your spudger to gently snap the connector into place by pressing it straight down.

If you have slender hands, you may be able to press the connector into place with your finger. Just be careful not to strain the cable.

This takes patience and a bit of practice. Don't rush it or attempt to force the connector into place.

Step 11



- Remove the back cover.

To install a new back cover:

- Use tweezers to peel away any remaining adhesive from the phone's chassis. Then clean the adhesion areas with high concentration isopropyl alcohol (at least 90%) and a lint-free cloth to prep the surface for the new adhesive.

- Peel the adhesive backing off of the new rear glass, carefully line up one edge of the glass against the phone chassis, and firmly press the glass onto the phone.

To reinstall the back cover, or to install a back cover without pre-installed adhesive, follow this guide.

Be sure to turn on your phone and test your repair before installing new adhesive and resealing the phone.

If desired, you may reinstall the back cover without replacing the adhesive. Remove any large chunks of adhesive that might prevent the back cover from sitting down flush. After installation, heat the back cover and apply pressure to secure it. It won't be waterproof, but the glue is usually more than strong enough to hold.

You may also need to transfer the camera bezel to your new part. If that's the case, follow our camera bezel replacement guide.

Step 12 — Disconnecting the Samsung Galaxy S8+ Battery





- Remove the eleven 3.7 mm Phillips screws securing the wireless charging coil + antenna assembly.
  - If any screws are difficult to remove even when fully loosened, you can pull them out with tweezers.

Step 13

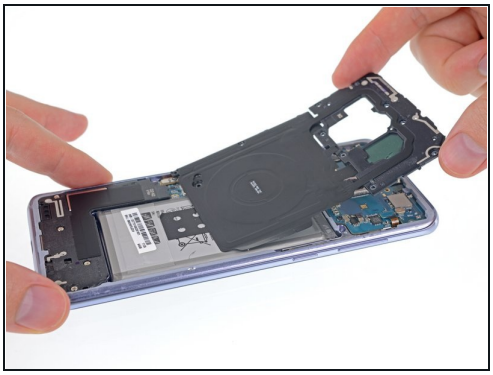
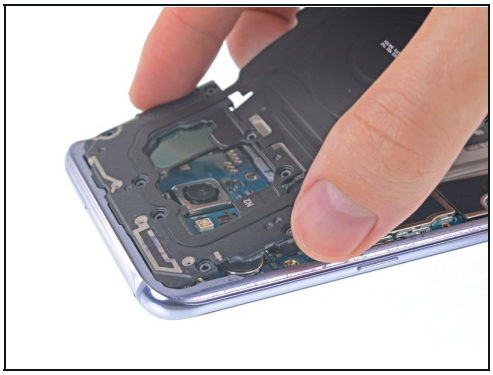




ⓘ The wireless charging coil + antenna assembly is also secured with small plastic clips.

- Use a spudger to gently pry up the plastic in the marked areas to pop the clips free.

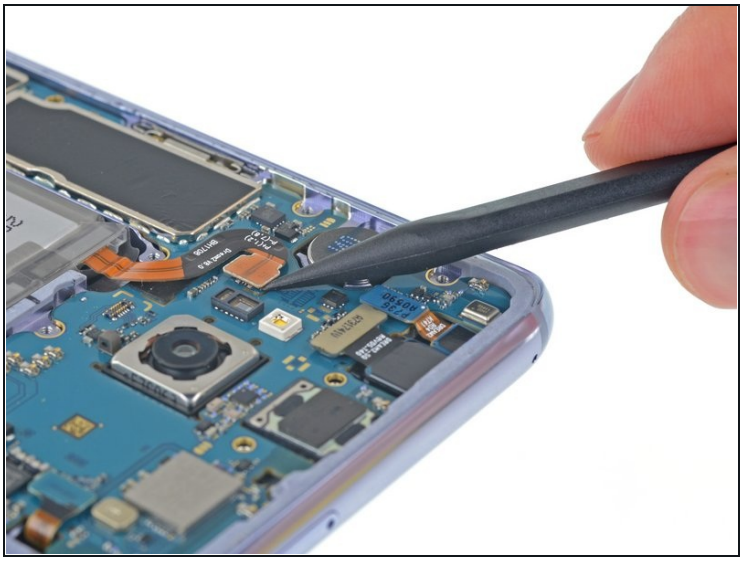
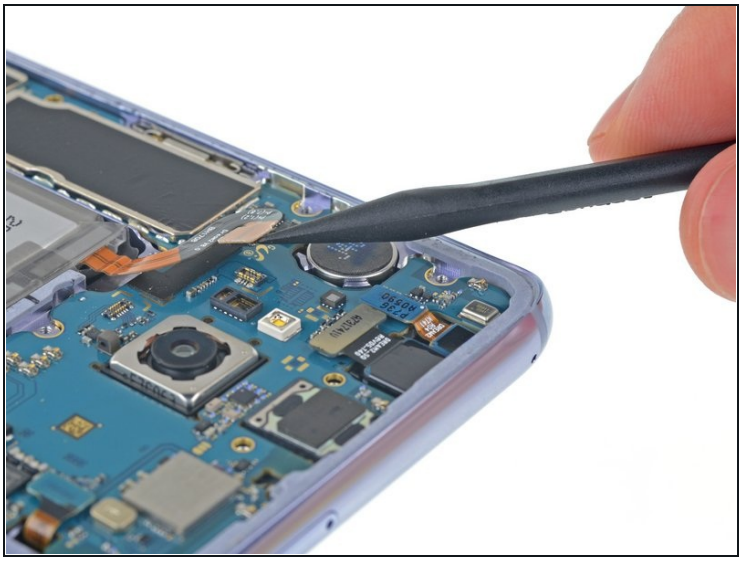
Step 14


- Remove the wireless charging coil + antenna assembly.

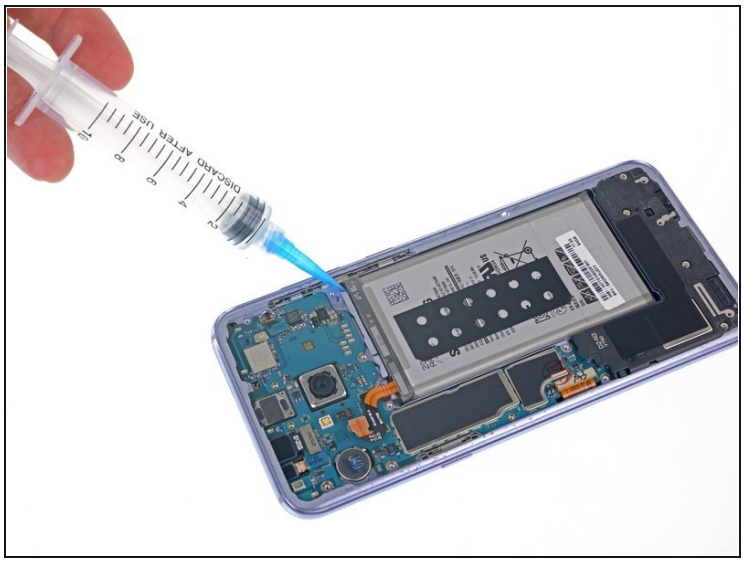
To reinstall, first insert the top edge of the assembly into the phone's frame, and then gently press down on the rest of the assembly to snap it into place.

Step 15

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

Step 16 — Battery





ⓘ The battery is strongly glued into place.

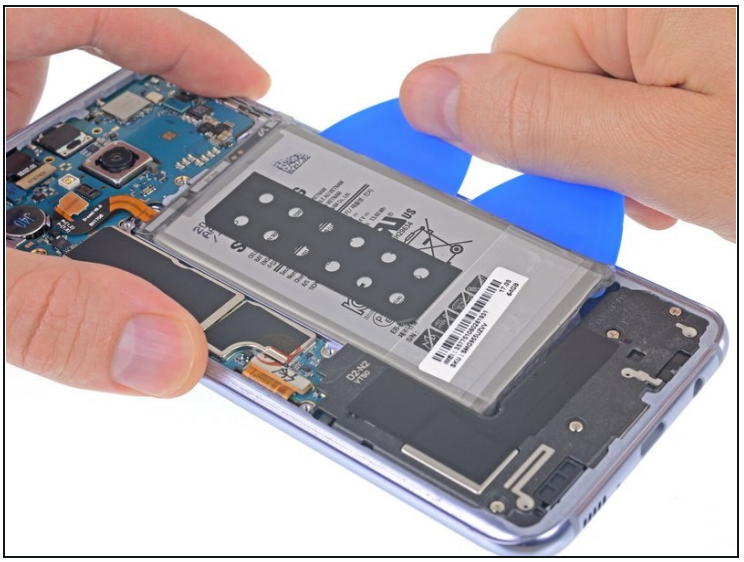
- Apply 1-2 drops of high-concentration (>90%) isopropyl alcohol under each corner of the battery and allow it to penetrate for several minutes to help weaken the adhesive.

⚠ Using too much alcohol can damage the display.

- Alternatively, apply a freshly heated iOpener to the display directly behind the battery for two minutes to help soften the adhesive. Re-heat and reapply the iOpener as necessary.

Step 17

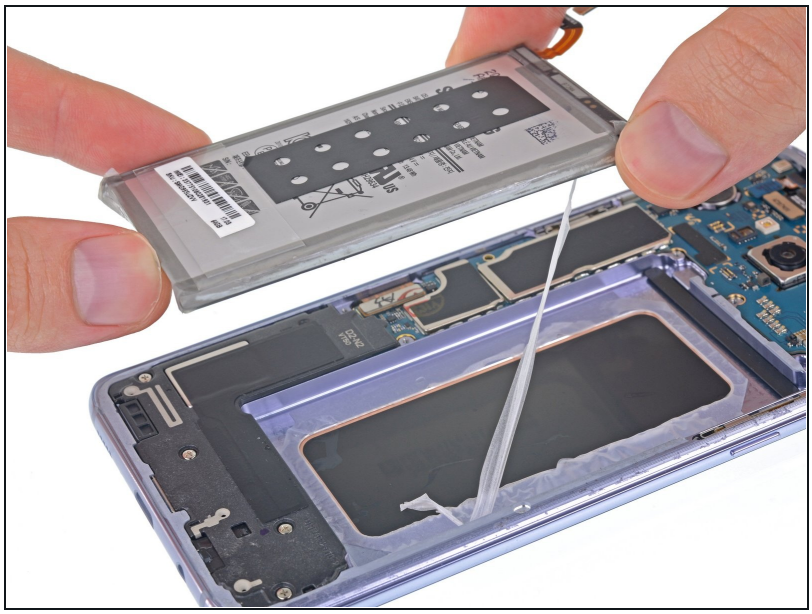




- Insert a couple of opening picks or a plastic card along the outer edge of the battery.
- Apply steady, even pressure to *slowly* lever the battery up and out of the phone.

⚠ 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.

- If you used isopropyl alcohol, wait ten minutes before installing the new battery to allow the alcohol to completely evaporate.

To install a new battery and adhesive, follow this guide.

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

For optimal performance, calibrate your newly installed battery after completing this guide.