



Samsung Galaxy S7 Battery Replacement

Is your battery running out way too fast? Are...

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INTRODUCTION

Is your battery running out way too fast? Are you forced to recharge your S7 more than once a day? This guide will show you how to remove the tired old battery in your S7 and replace it with a new one.

Note that the video guide recommends removing the SIM card. This is not necessary, but won't negatively affect repair if you do remove it.

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)
[Suction Handle](#) (1)
[Tweezers](#) (1)
[Phillips #00 Screwdriver](#) (1)
[iFixit Opening Picks \(Set of 6\)](#) (1)
[Spudger](#) (1)
[Isopropyl Alcohol](#) (1)

PARTS:

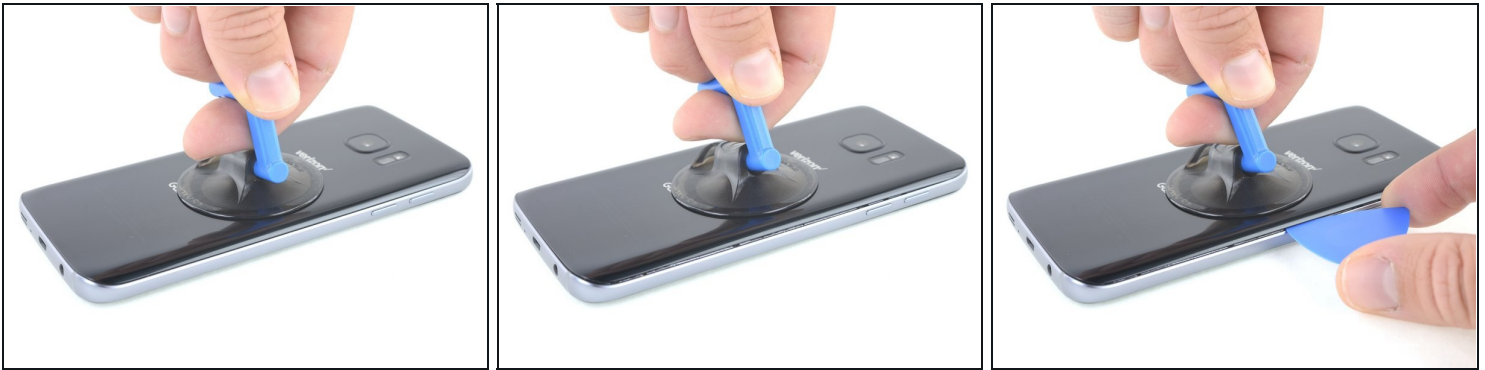
[Galaxy S7 Battery](#) (1)
[Galaxy S7 Rear Cover Adhesive](#) (1)
[Galaxy S7 Battery Adhesive Strips](#) (1)

Step 1 — Rear 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.
 - Apply a [heated iOpener](#) to a long edge of the phone for about two minutes.
 - ⓘ 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



- When the back panel is warm to the touch, apply a suction cup as close to the heated 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.
 - ⓘ 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 on the suction cup and insert an opening pick under the rear glass.
 - ⚠ The rear glass can break if you use too much force or attempt to pry with metal tools.
 - ⓘ Due to the curved glass, you will be pushing up, rather than inserting parallel to the plane of the phone.
 - ⓘ 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.
 - ⓘ 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 3



- Once you have the pick firmly inserted into the glass, reheat and reapply the iOpener to soften the adhesive.

Step 4



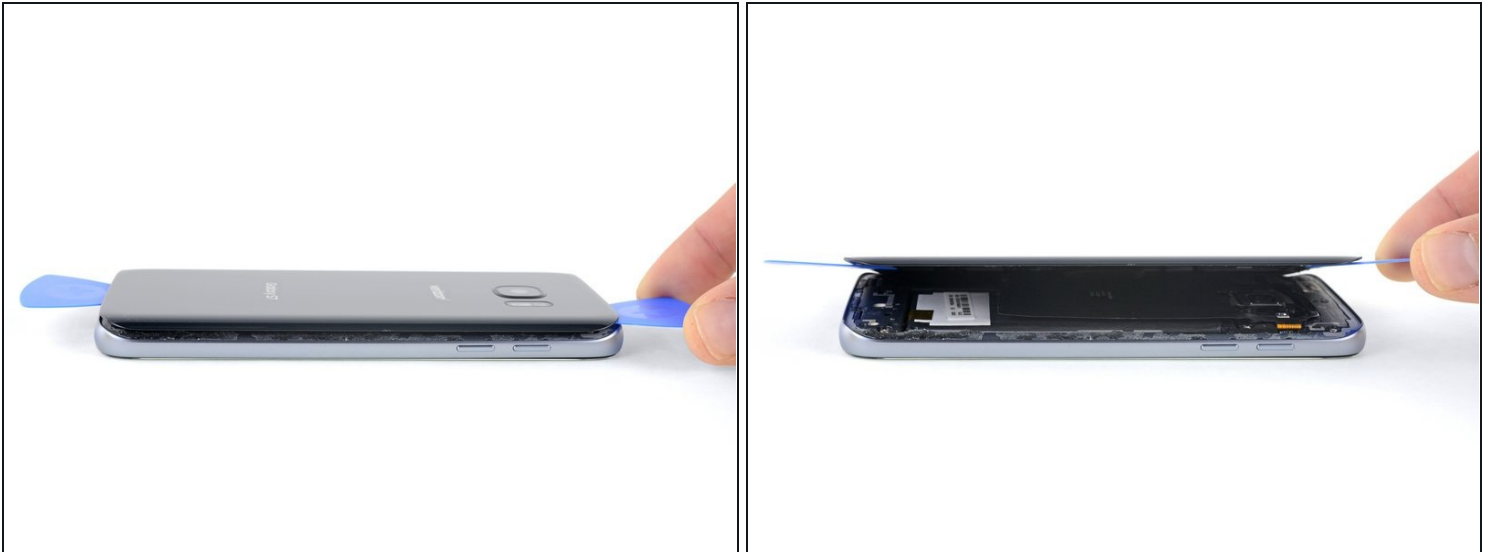
- Slide the opening pick down along the side of the phone, separating the adhesive.
- ① Go slowly so that the tip doesn't slip out of the seam. If sliding becomes difficult, reheat and reapply the iOpener.
- Leave the pick in place and grab a second pick as you proceed to the next step. Leaving the pick inserted can help prevent the glue you just separated from re-adhering.

Step 5



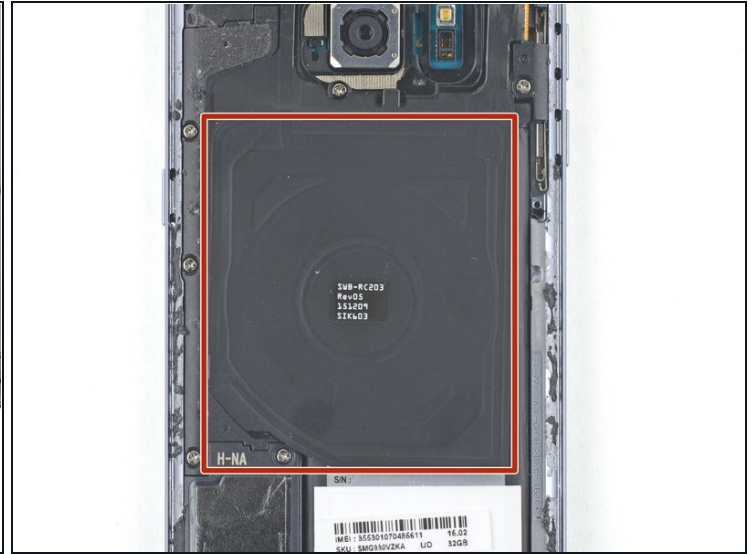
- Repeat the previous heating and cutting procedure for the remaining three sides of the phone.
- Leave an opening pick in each edge of the phone as you continue to the next to prevent the adhesive from resealing.

Step 6



- Lift the glass and remove it from the phone.

Step 7



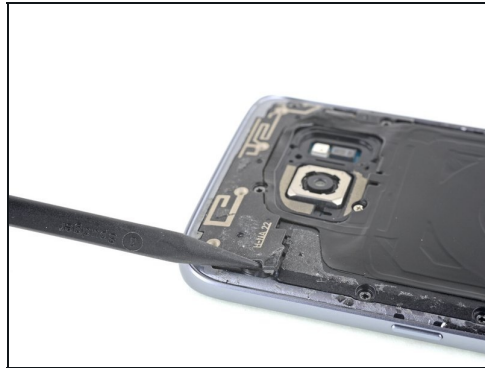
- ★ To reinstall the back cover with a custom-cut adhesive strip, [follow this guide](#).
- If you're cleaning the midframe surface with isopropyl alcohol, be careful not to get any alcohol on the wireless charging coil. The coil coating will break down if it contacts alcohol.
- ⓘ Be sure to turn on 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.

Step 8 — Loudspeaker Assembly



- Remove the twelve 3.5 mm Phillips screws.

Step 9



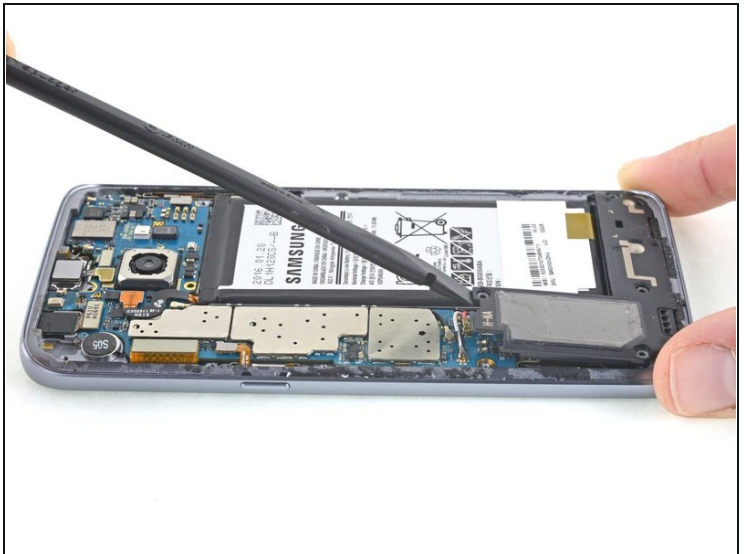
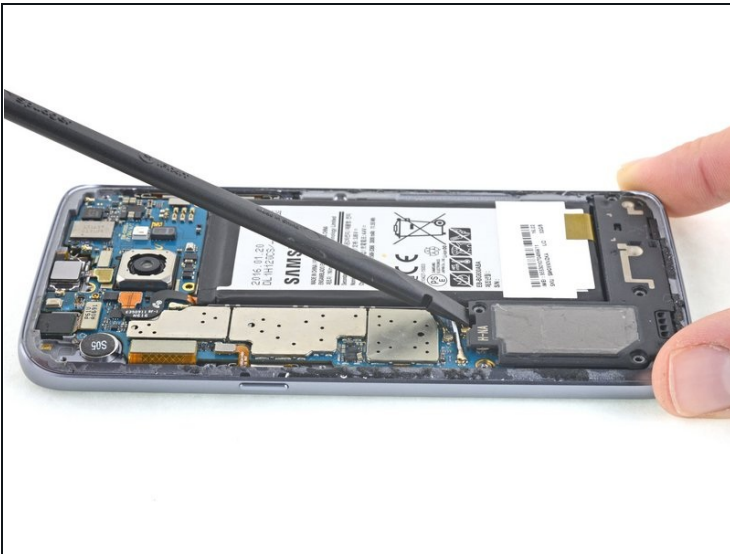
- Insert the tip of a spudger into the small notch on the left side of the antenna assembly, and pry the assembly up and out of the frame.
- Remove the antenna assembly.

Step 10



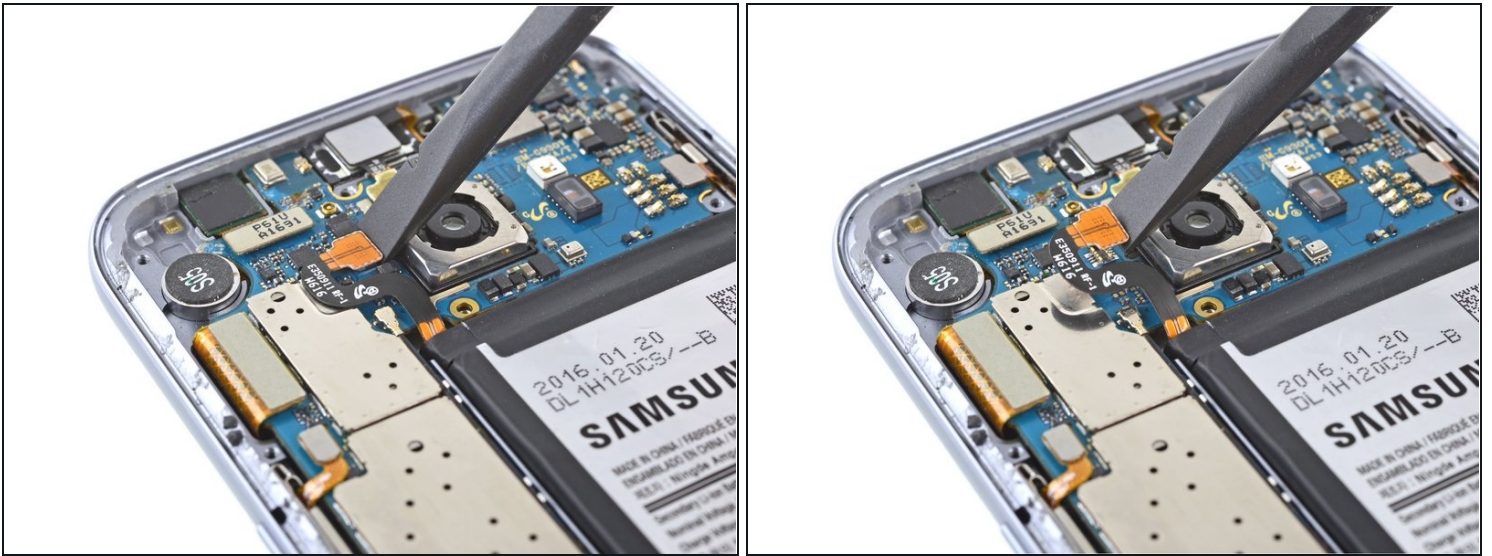
- Use the flat end of a spudger to lift the charging coil assembly out of the phone.

Step 11



- Use the flat end of a spudger to pry up and remove the loudspeaker assembly.

Step 12 — Battery Connector



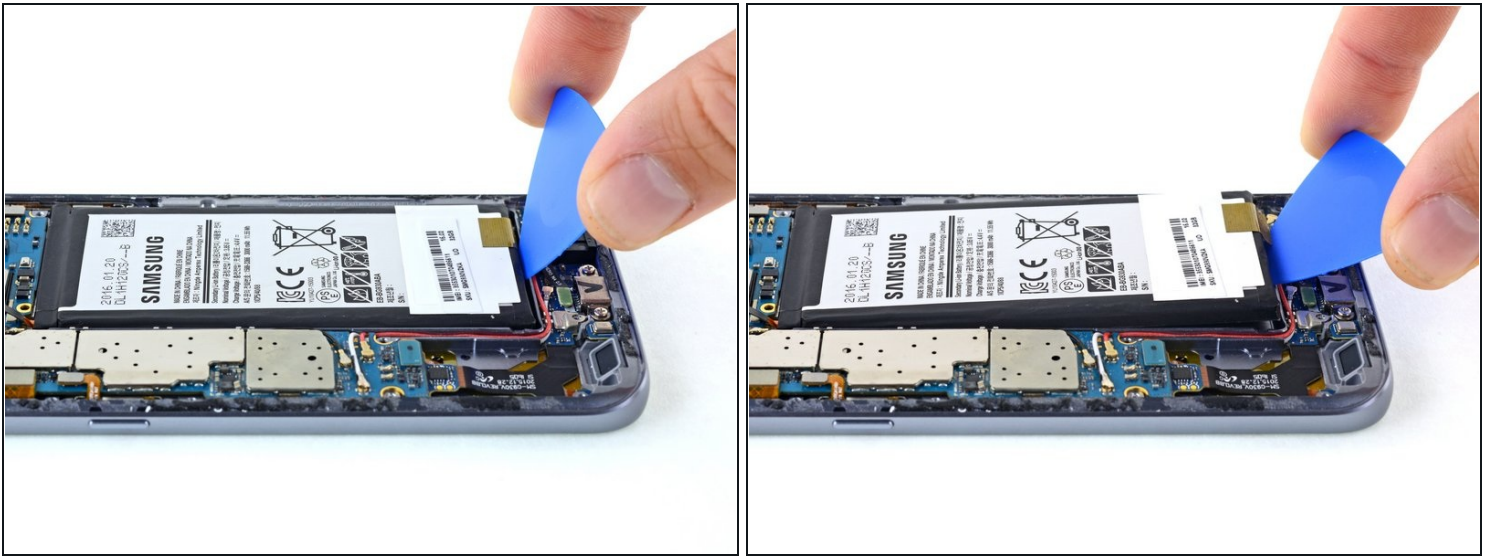
- Use the flat end of a spudger to disconnect the battery connector.

Step 13 — Prepare the adhesive



- 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, [prepare an iOpener](#) and apply it directly to the battery.
- Apply the iOpener for at least a minute to soften the battery adhesive.

Step 14 — Pry up the battery



- Use an opening pick to pry up the battery from the bottom using firm, constant pressure.
 - ⚠ Do not use excessive force or pry at the battery with metal tools.
 - ⚠ You will be prying against the case directly above the daughterboard and antenna cables. Pry carefully to avoid damaging either of these components.
 - ⓘ You may need to reheat and reapply the iOpener repeatedly to further soften the adhesive. The adhesive is tough and it may take a few tries to get the pick started under the battery.
 - ⚠ 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.

Step 15 — Remove the battery



- Slide an opening pick up the side of the battery to break apart any remaining adhesive.
- Lift the battery out of the case.
 - ⚠ 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, apply adhesive to the back glass and follow these instructions in reverse order.

After completing this guide, [calibrate your newly-installed battery](#).