Samsung Galaxy S8 Screen Replacement

Use this guide to replace a cracked or broken...

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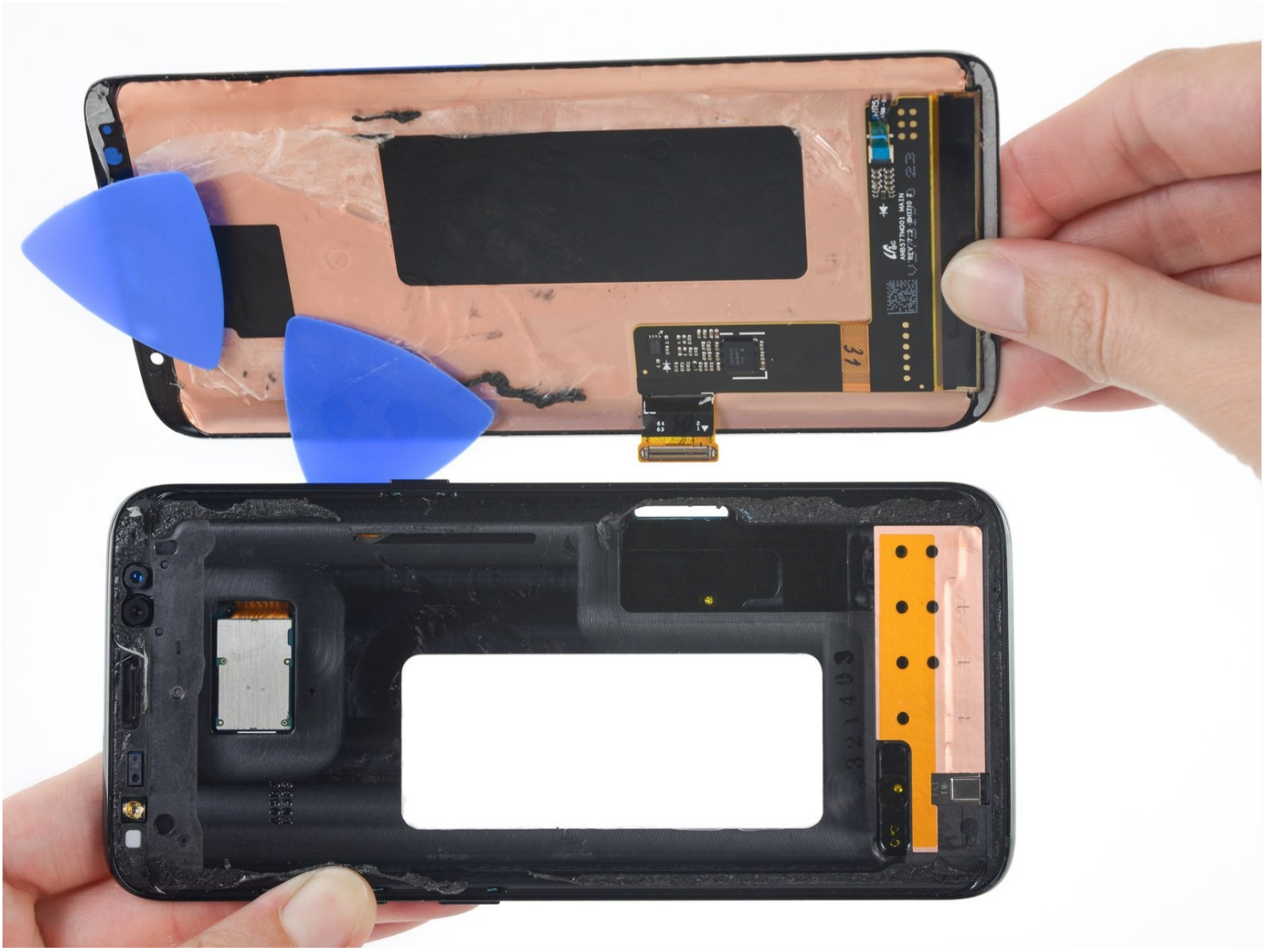


INTRODUCTION

Use this guide to replace a cracked or broken display on your Samsung Galaxy S8.

Note: This guide instructs you to replace only the display while leaving the original frame, motherboard, and battery in place. However, some replacement screens for this phone come pre-installed in a new frame (a.k.a. chassis), which requires a very different procedure—transplanting your phone's internals and installing a new battery. Make sure you have the correct part before starting this guide.

This guide involves removing the rear glass cover, you will need replacement adhesive to reattach the back cover to the phone. If your replacement screen does not come with adhesive, you will need to use tape to secure it as well.

If the frame is damaged or bent, it's important to replace it, or else the new screen may not mount correctly and can suffer damage from uneven pressure.

The process of separating the display from the frame usually destroys the display, so don't follow this guide unless you intend to replace the display.

TOOLS:

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

PARTS:

- Galaxy S8 Screen (1)
- Galaxy S8 Display Adhesive Strips (1)
- Galaxy S8 Display Heat Dissipation Sticker (1)
- Galaxy S8 Midframe (1)
- Galaxy S8 Rear Cover Adhesive (1)
- Tesa 61395 Double-Sided Tape (1)

Thin, high-bond tape is required if the replacement part does not come with adhesive.

Step 1 — iOpener Heating

ⓘ We recommend that you clean your microwave before proceeding, as any nasty gunk on the bottom may end up stuck to the iOpener.

- Place the iOpener in the center of the microwave.

⚠ For carousel microwaves: Make sure the plate spins freely. If your iOpener gets stuck, it may overheat and burn.

Step 2

- Heat the iOpener for **thirty seconds**.
- Throughout the repair procedure, as the iOpener cools, reheat it in the microwave for an additional thirty seconds at a time.

⚠ Be careful not to overheat the iOpener during the repair. Overheating may cause the iOpener to burst. Do not attempt to heat over 100˚C (212˚F).

⚠ Never touch the iOpener if it appears swollen.

⚠ If the iOpener is still too hot in the middle to touch, continue using it while waiting for it to cool down some more before reheating. A properly heated iOpener should stay warm for up to 10 minutes.

Step 3

- Remove the iOpener from the microwave, holding it by one of the two flat ends to avoid the hot center.

⚠ The iOpener will be very hot, so be careful when handling it. Use an oven mitt if necessary.

Step 4 — Alternate iOpener heating method

ⓘ If you don't have a microwave, follow this step to heat your iOpener in boiling water.

- Fill a pot or pan with enough water to fully submerge an iOpener.
- Heat the water to a boil. **Turn off the heat.**
- Place an iOpener into the hot water for 2-3 minutes. Make sure the iOpener is fully submerged in the water.
- Use tongs to extract the heated iOpener from the hot water.
- Thoroughly dry the iOpener with a towel.

  ⚠ The iOpener will be very hot, so be careful to hold it only by the end tabs.
- Your iOpener is ready for use! If you need to reheat the iOpener, heat the water to a boil, turn off the heat, and place the iOpener in the water for 2-3 minutes.

Step 5 — Back Glass Assembly

ⓘ 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.

- Heat an iOpener and apply it to a long edge of the S8 for about 2 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.

ⓘ As you're waiting for the adhesive to soften, move on and read the following step to get an idea of where to pry.

Step 6

- In the following steps you will be cutting through the adhesive around the edge of the rear glass panel.
- The adhesive on the rear case is laid out as seen in the first image.
- The prying pattern as seen from the outside of the phone is as follows:
  - Thick portions of adhesive
  - Thin areas of adhesive
  - Avoid prying here, to protect the fingerprint sensor.

Step 7



- Once 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.

ⓘ Due to the curved glass, you will be pushing up, rather than inserting parallel to the plane of the phone.

Step 8

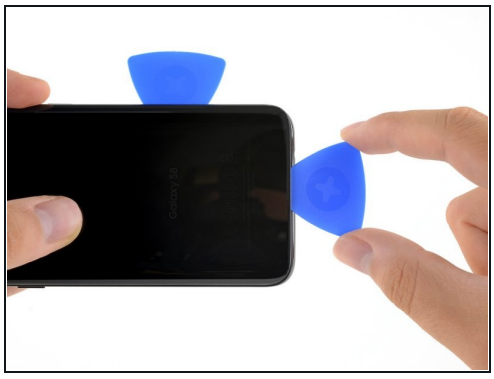
- Once you have the tool firmly inserted into the glass, reheat and reapply the iOpener to soften the adhesive.

Step 9

- Slide the opening pick down the side of the phone, separating the adhesive.

ⓘ Go slowly so that the tool doesn't slip out of the seam. If cutting becomes difficult, reheat and reapply the iOpener.

Step 10



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

Step 11

The fingerprint sensor cable connects the phone to the rear glass near the main camera. The cable is very short and should disconnect as the rear glass is removed.

As you lift the glass, peek in to be sure the orange cable with a blue connector has disconnected.

- Use the opening picks to slice through any remaining adhesive and open the phone slightly.

If the fingerprint sensor cable seems snagged or stays taut do not open the phone any further. Disconnect the connector with the point of a spudger before proceeding.

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.

- Remove the glass from the phone.

Step 12

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.

[Follow this guide] to reinstall the old back cover, or to install a back cover without pre-installed adhesive.

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.

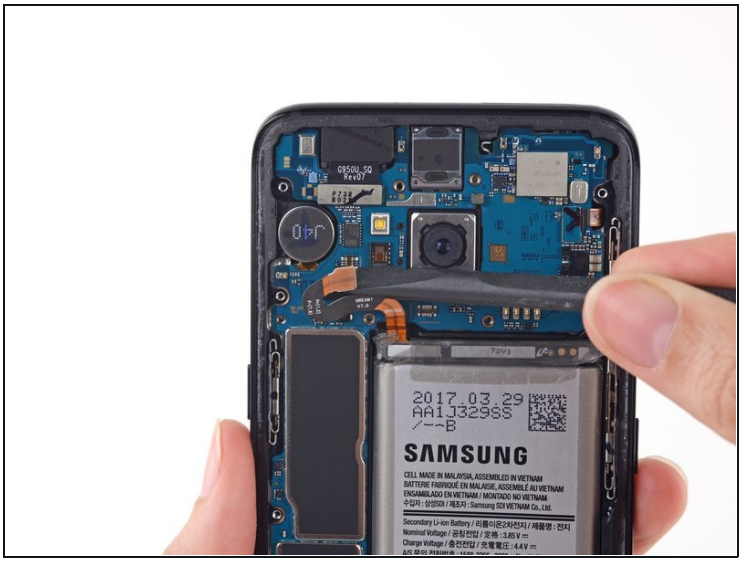
Step 13 — NFC Antenna and Charging Coil Assembly

- Remove eleven 3.7 mm screws using a Phillips #000 screwdriver.

Step 14

- Remove the NFC antenna and charging coil assembly.

Step 15 — Battery Connector



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

ⓘ Although the battery is not shown in the next steps, there is no need to remove it for this guide. Just disconnect the battery and you're good to go.

Step 16 — Screen

- Use the flat end of a spudger to disconnect the display and digitizer connector.

Step 17

- Heat an iOpener and apply it to one of the long edges of the S8 for about 2 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.

Step 18

- Once the screen 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 screen 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 display assembly.
  - ⓘ Due to the curved glass, you will be pushing up, rather than inserting parallel to the plane of the phone.

Step 19

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

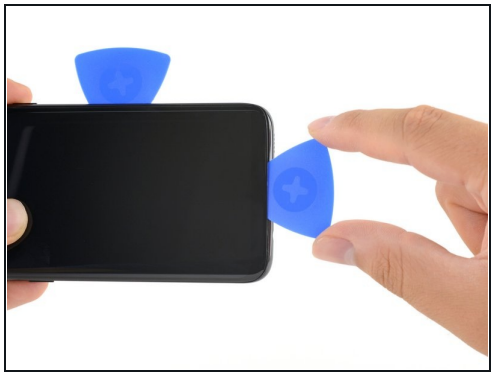
Step 20

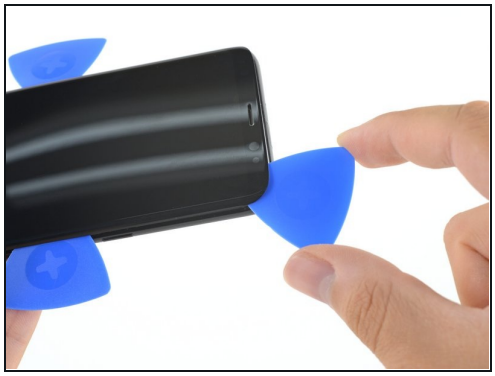
- Slide the opening pick down the side of the phone, separating the adhesive.

ⓘ Go slowly so that the tool doesn't slip out of the seam. If cutting becomes too difficult, reheat and reapply the iOpener.

ⓘ The screen's flex cable is located just below the midpoint on this side, and may interfere with your cutting tool.

Step 21





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

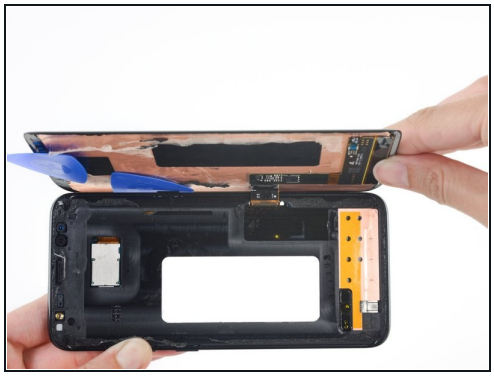
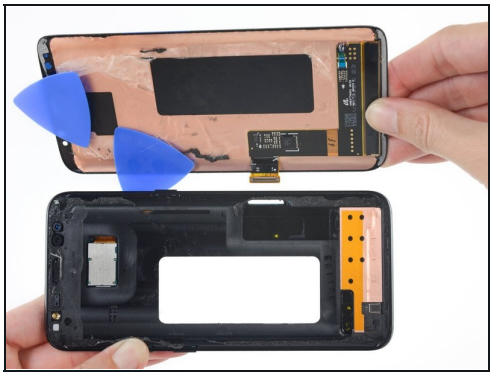
⚠ Use a little extra caution when prying near the top edge so as not to damage the front-facing sensors and earpiece speaker.

Step 22


- Pry the screen away from the midframe.

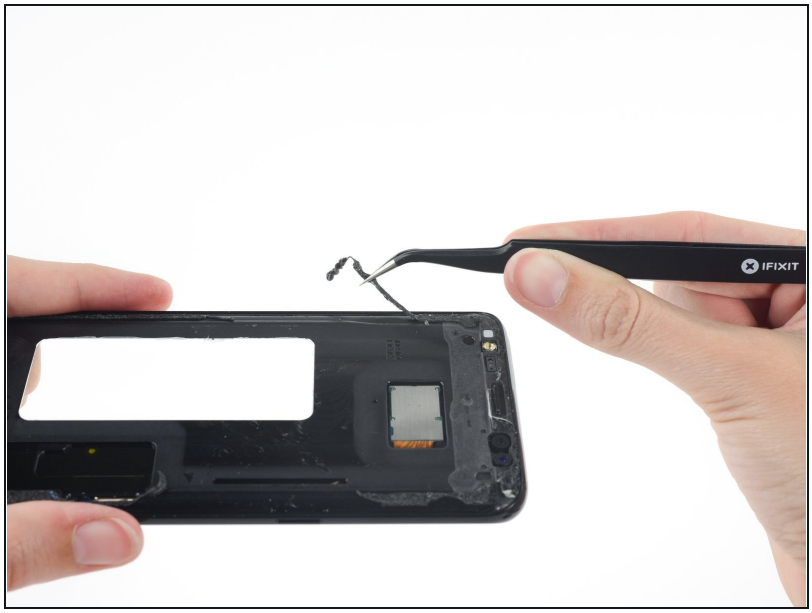
ⓘ Check the back of the phone and note which side of the phone has the display and digitizer connector. Pry on the opposite side of the phone from the connector—the connector will act as a hinge.

Step 23


- Carefully lift the screen assembly away from the midframe, gently pulling the display connector through the hole in the midframe.
- Remove the screen assembly.

Step 24



Follow this link for a detailed screen adhesive application guide.

Before installing a new display, it's very important to remove all traces of the old adhesive from the frame, while taking special care to remove any small glass fragments.

- After removing all traces of glue and glass from the frame, clean the adhesion areas with 90% (or higher) isopropyl alcohol and a lint-free cloth or coffee filter. Swipe in one direction only, not back and forth.

If the frame is bent, or if any glue or glass remnants are left behind, the new display will not mount correctly and may be damaged. If necessary, replace the frame.

The best way to secure the new screen is with a sheet of custom-cut double-sided tape. Apply the tape to the back of the screen, then carefully feed the display cable through the frame. Align the screen and press it into place.

After reapplying adhesive, follow these instructions in reverse order to reassemble your device.

After you've completed the repair, follow this guide to test your repair.