

iPhone 5s Screen Replacement

Learn how to replace your iPhone 5s screen....

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INTRODUCTION

Learn how to replace your iPhone 5s screen. This part comes with the front-facing camera, earpiece speaker and sensor cable already installed, making for an easier repair.

All you need to do is remove the old screen and transfer the home button to the new screen in order for Touch ID (fingerprint scanning) to function.

[video: https://www.youtube.com/watch?v=KKLprKCfxbE]

TOOLS:

Anti-Clamp (1)
P2 Pentalobe Screwdriver iPhone (1)
Phillips #000 Screwdriver (1)
iFixit Opening Tool (1)
Suction Handle (1)
Spudger (1)
Tweezers (1)

PARTS:

iPhone 5s Screen (1) iPhone 5/5c/5s/SE (1st Gen) Screw Set (1) NuGlas Tempered Glass Screen Protector for iPhone 5/5s/5c/SE (1st Gen) (1)

Step 1 — Removing the Pentalobe screws



- A Before you proceed, discharge your iPhone battery below 25%. A charged lithium-ion battery can catch fire and/or explode if accidentally punctured.
- Power off your iPhone before beginning disassembly.
- Remove the two 3.9 mm
 Pentalobe screws from either side of Lightning connector.

Step 2 — Taping the display glass







- If your display glass is cracked, keep further breakage contained and prevent bodily harm during your repair by taping the glass.
- Lay overlapping strips of clear packing tape over the iPhone's display until the whole face is covered.
 - (i) This will keep glass shards contained and provide structural integrity when prying and lifting the display.

⚠ Wear safety glasses to protect your eyes from any glass shaken free during the repair.

Step 3 — Display separation prevention







- (i) In the following steps you will be pulling the display up out of the phone body. The display is composed of a glass screen and a plastic bezel with metal clips.
- Regardless of the tool you use, you need to be sure you pull up the entire display.
- If the glass begins to separate from the plastic, as shown in the first image, slide a plastic opening tool between the plastic frame and the metal phone body to pry the metal clips out of the case.
- If you are reassembling a phone with a separated display bezel, you may want to place a thin strip of adhesive between the plastic bezel and the glass to keep the phone closed.

Step 4 — Anti-Clamp instructions







- (i) The next two steps demonstrate the Anti-Clamp, a tool we designed to make the opening procedure easier. If you aren't using the Anti-Clamp, skip down two steps for an alternate method.
 - i For complete instructions on how to use the Anti-Clamp, check out this guide.
- Pull the blue handle backwards to unlock the Anti-Clamp's arms.
- Slide the arms over either the left or right edge of your iPhone.
- Position the suction cups near the bottom edge of the iPhone just above the home button—one on the front, and one on the back.
- Squeeze the cups together to apply suction to the desired area.
 - i If the surface of your iPhone is too slippery for the Anti-Clamp to hold onto, you can use the included tape pad to create a grippier surface.







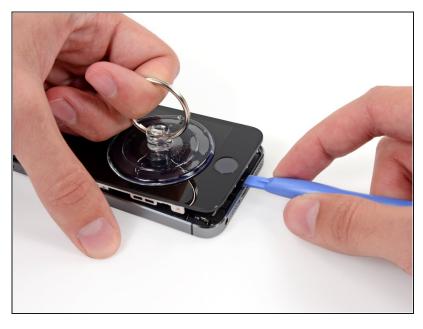
- Pull the blue handle forwards to lock the arms.
- Turn the handle clockwise 360 degrees or until the cups start to stretch.
 - (i) Make sure the suction cups <u>remain aligned with each other</u>. If they begin to slip out of alignment, loosen the suction cups slightly and realign the arms.
- Insert an opening pick under the screen when the Anti-Clamp creates a large enough gap.
 - if the Anti-Clamp doesn't create a sufficient gap, rotate the handle a quarter turn.
 - Don't crank more than a quarter turn at a time and wait a few seconds between turns. Let the Anti-Clamp and time do the work for you.
- Skip the next two steps.

Step 6 — Manual Opening Procedure

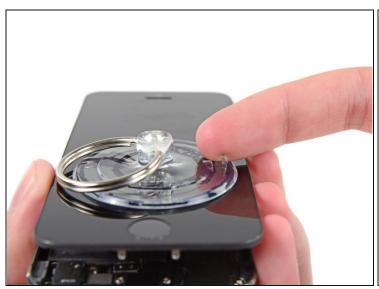


- If you don't have an Anti-Clamp, use a single suction cup to lift the front panel:
 - Press a suction cup onto the screen, just above the home button.
 - i Be sure the cup is completely on the screen to get a tight seal.

Step 7 — Start lifting the front panel assembly



- The front panel is attached with clips, and there are several ribbon cables connecting it to the rest of the phone. Your goal here is to release the clips and open the phone only enough to disconnect the cables. Go slowly and carefully to avoid damage.
- (i) Make sure the suction cup is firmly attached to the front panel assembly near the home button.
- While holding the iPhone down with one hand, pull up on the suction cup to slightly separate the home button end of the front panel from the rear case.
- With a plastic opening tool, gently pry the edges of the rear case down, away from the front panel assembly, while you pull up with the suction cup.
- ⚠ Take your time and apply firm, constant force. The front panel assembly is a much tighter fit than on most other devices.





⚠ Do not try to completely remove the front panel assembly from the rear case, as there are several delicate ribbon cables connecting them.

- Pull the plastic nub to release the vacuum seal on the suction cup.
- Remove the suction cup from the screen.

Step 9 — Removing the Touch ID cable bracket







- Open the phone just enough to reveal the metal bracket covering the home button cable.
- ⚠ Do not open the phone too far or you risk damaging the home button cable, or the socket it plugs into. **Keep the cable loose—if it is stretched taut, that's too far.**
 - Only the phone's original home button assembly will be capable of using the Touch ID functionality. If you rip the cable, installing a new home button will only restore ordinary home button functions, not the Touch ID features.
- Use the tip of a spudger to push the bracket free and remove it with tweezers.
- (i) The next two steps apply to reassembly. Skip them and continue to Step 12 until reassembly.



- During reassembly, you will need to reinstall the Touch ID cable bracket. The top of the bracket needs to slide between the battery and Touch ID cable connector, in front of the metal tab. The bottom must latch down over the connector.
- Slide the top of the bracket over the Touch ID cable connector from left to right.



- During reassembly, use the flat end of a spudger to snap the front portion of the Touch ID cable bracket down over the cable connector.
- (i) If the bracket does not snap down flush, you may need to remove the bracket and slide it over the cable connector again for a better fit.

Step 12 — Disconnecting the home button cable connector

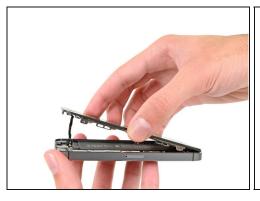




• Use the tip of a spudger to pry the home button cable connector up out of its socket.

⚠ Be sure you're separating the cable connector from its socket, and not prying the entire socket up. The socket is on its own glued-down cable that can be pried up if you aren't careful.

Step 13 — Opening up the phone







- Once the connector has been released, pull the home button end of the assembly away from the rear case, using the top of the phone as a hinge.
- Open the display to about a 90° angle, and lean it against something to keep it propped up while you're working on the phone.
 - Add a rubber band to keep the display securely in place while you work. This
 prevents undue strain on the display cables.
 - (i) In a pinch, you can use an unopened canned beverage to hold the display.

Step 14



Remove the two 1.6 mm
 Phillips #000 screws securing the metal battery connector bracket to the logic board.



 Remove the metal battery connector bracket from the iPhone.

Step 16





• Use the flat end of a spudger to gently pry the battery connector up from its socket on the logic board.

⚠ Be very careful to only pry up on the battery connector itself and not the socket on the logic board. If you pry up on the logic board socket or the board itself, you may destroy the socket or damage nearby components on the board.



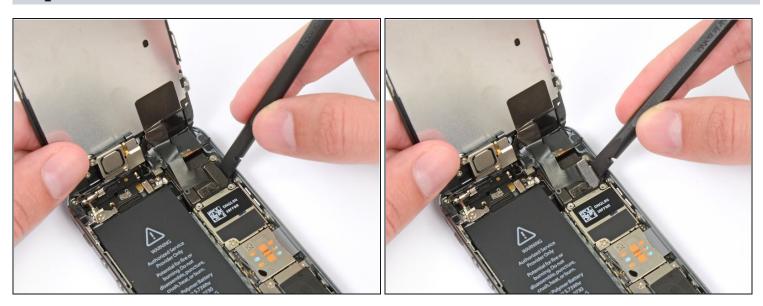
- Remove the following screws securing the front panel assembly cable bracket to the logic board:
 - One 1.7 mm Phillips #000 screw
 - One 1.2 mm Phillips #000 screw
 - One 1.3 mm Phillips #000 screw
 - One more 1.7 mm Phillips #000 screw
 - This 1.7 mm screw tends to not be attracted to a magnetized screwdriver. Take care not to lose it when removing.
 - ⚠ It is especially important to keep track of your screws in this step for reassembly.

 Accidentally using the 1.3 mm screw or one of the 1.7 mm screws in the bottom right hole will result in significant damage to the logic board causing the phone to no longer boot properly.
 - ⚠ Be careful not to overtighten the screws, and don't force them. If they don't fit easily when you are securing them, they may be the wrong size.

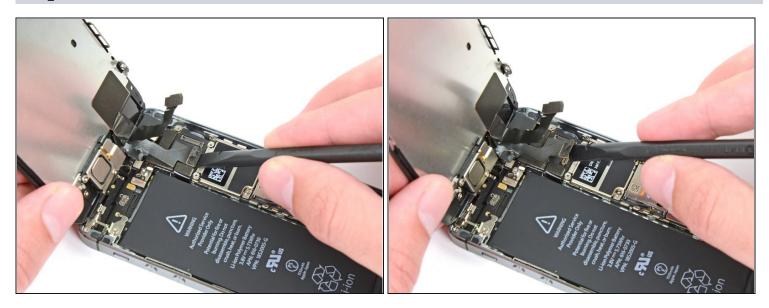


 Remove the front panel assembly cable bracket from the logic board.

Step 19



• Use a spudger or a fingernail to disconnect the front-facing camera and sensor cable.



- ⚠ Make sure the battery is disconnected before you disconnect or reconnect the cable in this step.
- Disconnect the LCD cable connector.
- When reassembling your phone, the LCD cable may pop off the connector. This can result in white lines or a blank screen when powering your phone back on. If that happens, simply reconnect the cable and power cycle your phone. The best way to power cycle your phone is to disconnect and reconnect the battery.



• Finally, disconnect the digitizer cable connector.

Step 22



• Remove the front panel assembly from the rear case.

Step 23 — Home Button Assembly





- Unscrew the single captive Phillips #000 screw securing the home button cable.
- The captive screw is fastened to the home button cable by a spring contact backing. During reassembly, ensure the contact is in the correct orientation—on the side of the screw nearest the LCD.
- If your replacement part does not have this captive screw and spring contact, you will need to transfer them to the new cable.

Step 24





• Fold the home button cable down, out of the way of the home button bracket.



Remove the two 1.4 mm
 Phillips #000 screws from the home button bracket.

Step 26



 Remove the home button bracket from the display assembly.





- Wedge the the tip of a spudger underneath the home button cable assembly.
- (i) The home button cable is affixed by mild adhesive.
- Gently work the spudger underneath the cable to separate the home button cable from the front panel assembly.

 \triangle Do **not** remove the home button yet, as it is still attached to the front panel assembly.





- If necessary, remove the tape over the home button on the front side of your cracked front panel assembly.
- Gently push the top left corner of the home button up away from the front panel.
- ⚠ Do **not** push the home button all the way through—you only need to get a corner free, so that you can pry it free with a spudger.
- (i) This membrane is very thin. If you feel like you're going to tear the button, apply heat and try again.





 Peel the home button the rest of the way off of the display by prying gently with a spudger.

Step 30



 Remove the home button assembly from the front panel.

Step 31 — Screen



- The screen remains.
- If your replacement screen is missing any components that are still on the assembly you just removed, follow this guide to transfer them to the new part.
- If your replacement screen came with any protective plastic films that you don't see on the original display, be sure to peel them off before beginning reassembly.

To reassemble your device, follow the above steps in reverse order.

Compare your new replacement part to the original part. You may need to transfer remaining components or remove adhesive backings from the new part before installing. 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.