



# iPhone 6s Battery Replacement

Replace the battery in an iPhone 6s.

Written By: Evan Noronha



## INTRODUCTION

Use this guide to bring life back to your iPhone 6s with a new battery. If your battery is swollen, [take appropriate precautions](#).

This guide instructs you to detach the front panel assembly; this is intended to prevent damage to the display cables. If you feel comfortable supporting the display carefully while peeling the battery out of the iPhone, you can skip the display removal and go directly to the battery removal steps.

**For optimal performance, after completing this guide, [calibrate](#) your newly installed battery:** Charge it to 100% and keep charging it for at least two more hours. Then use your iPhone until it shuts off due to low battery. Finally, charge it uninterrupted to 100%.

You can also use this guide to replace the [battery connector bracket](#).



### TOOLS:

- [P2 Pentalobe Screwdriver iPhone](#) (1)
- [Phillips #000 Screwdriver](#) (1)
- [Suction Handle](#) (1)
- [Spudger](#) (1)
- [Tweezers](#) (1)
- [iOpener](#) (1)
- [Plastic Cards](#) (1)




### PARTS:

- [iPhone 6s Replacement Battery](#) (1)
- [iPhone 6/6s/7 Battery Adhesive Strips](#) (1)
- [iPhone 6s Battery Connector Bracket](#) (1)
- [iPhone 6s Display Assembly Adhesive](#) (1)

## Step 1 — Pentalobe Screws



 Before disassembling your iPhone, discharge the 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 3.4 mm P2 Pentalobe screws on the bottom edge of the iPhone, next to the Lightning connector.

## Step 2 — Opening Procedure



- Optionally, apply mild heat to the lower edge of the iPhone using an [iOpener](#) or hair dryer for about a minute.
- ⓘ Heat softens the adhesive securing the display, making it easier to open.

## Step 3



- ⓘ Opening the display on the 6s separates a thin strip of adhesive around the perimeter of the display. If you prefer to replace the adhesive, have a set of new adhesive strips ready before you continue. It's possible to complete the repair without replacing the adhesive, and you probably won't notice any difference in functionality.
- Apply a suction cup to the lower left corner of the display assembly.
  - Take care **not** to place the suction cup over the home button.
- ⓘ If your display is badly cracked, [covering it with a layer of clear packing tape](#) may allow the suction cup to adhere. Alternatively, very strong tape may be used instead of the suction cup. If all else fails, you can superglue the suction cup to the broken screen.

## Step 4



- Pull up on the suction cup with firm, constant pressure to create a slight gap between the front panel and rear case.
  - ⓘ Take your time and apply firm, constant force. The display assembly is a much tighter fit than most devices and is held down with adhesive.
- ⚠ Pulling too hard may damage the display assembly. Apply just enough pressure to create a small gap between the display assembly and the rear case.
- ⓘ If you have any trouble, heat the front of the iPhone using an iOpener, hair dryer, or heat gun until it's slightly too hot to touch. This will help soften the adhesive securing the edges of the display.



## Step 5



- i** There is a notch on the underside of the display, just above the headphone jack. This is the safest place to begin prying the phone open.
- Place the flat edge of a spudger into the gap between the screen and rear case, directly above the headphone jack.

## Step 6



- Twist the spudger to widen the gap between the front panel assembly and the rest of the phone.

## Step 7



- Insert the flat end of the spudger on the left side of the phone, between the display assembly and rear case.
- Slide the spudger up the side of the phone to separate the adhesive and pop the clips free.

## Step 8



- Remove the spudger and reinsert it on the bottom edge, where you pried the phone open.
- Slide the spudger to the right, along the bottom edge of the phone.

## Step 9



- Slide the spudger up the right side to continue separating the adhesive and popping the display clips free from the iPhone.



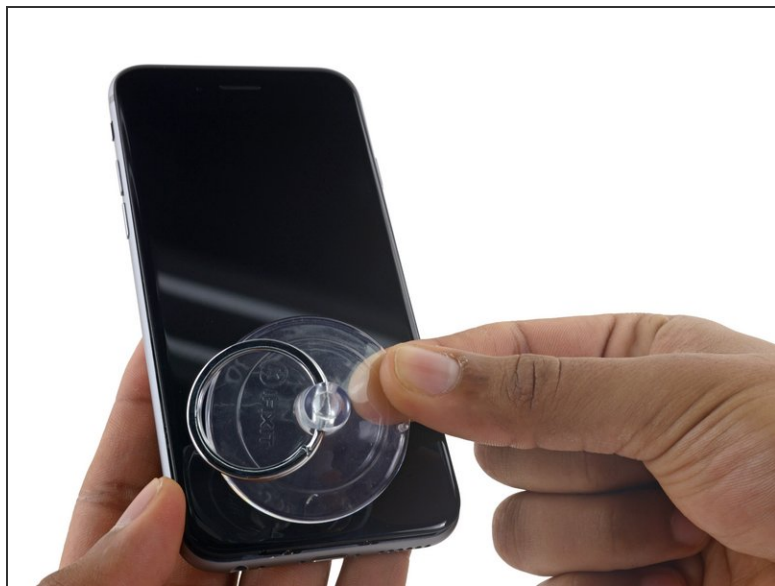
## Step 10



- Use the suction cup to open the display, breaking the last of the adhesive.

⚠ Don't open the display more than 90°, as it is still connected at the top by three cables that may break if stretched.

## Step 11



- Pull up on the nub on the top side of the suction cup to remove it from the front panel.

## Step 12



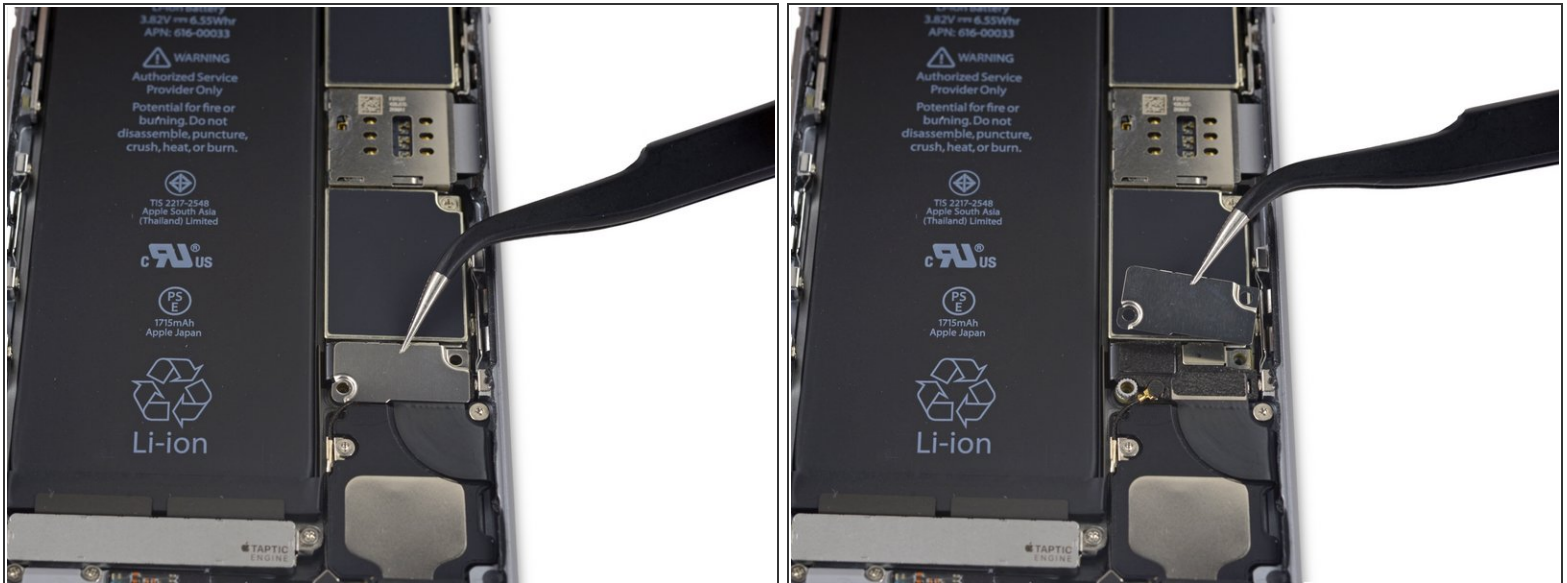
- Gently grasp the display assembly and lift it up to open the phone, using the clips at the top of the front panel as a hinge.
  - Open the display to about a 90° angle, and lean it against something to keep it propped up while you're working on the phone.
    - Add a rubber band to keep the display securely in place while you work. This prevents undue strain on the display cables.
- ⓘ In a pinch, you can use an unopened canned beverage to hold the display.

## Step 13 — Battery Connector



- Remove two Phillips screws securing the battery connector bracket, of the following lengths:
    - One 2.9 mm screw
    - One 2.2 mm screw
- ⓘ Throughout this repair, [keep track of each screw](#) and make sure it goes back exactly where it came from to avoid damaging your iPhone.

## Step 14



- Remove the battery connector bracket from the iPhone.

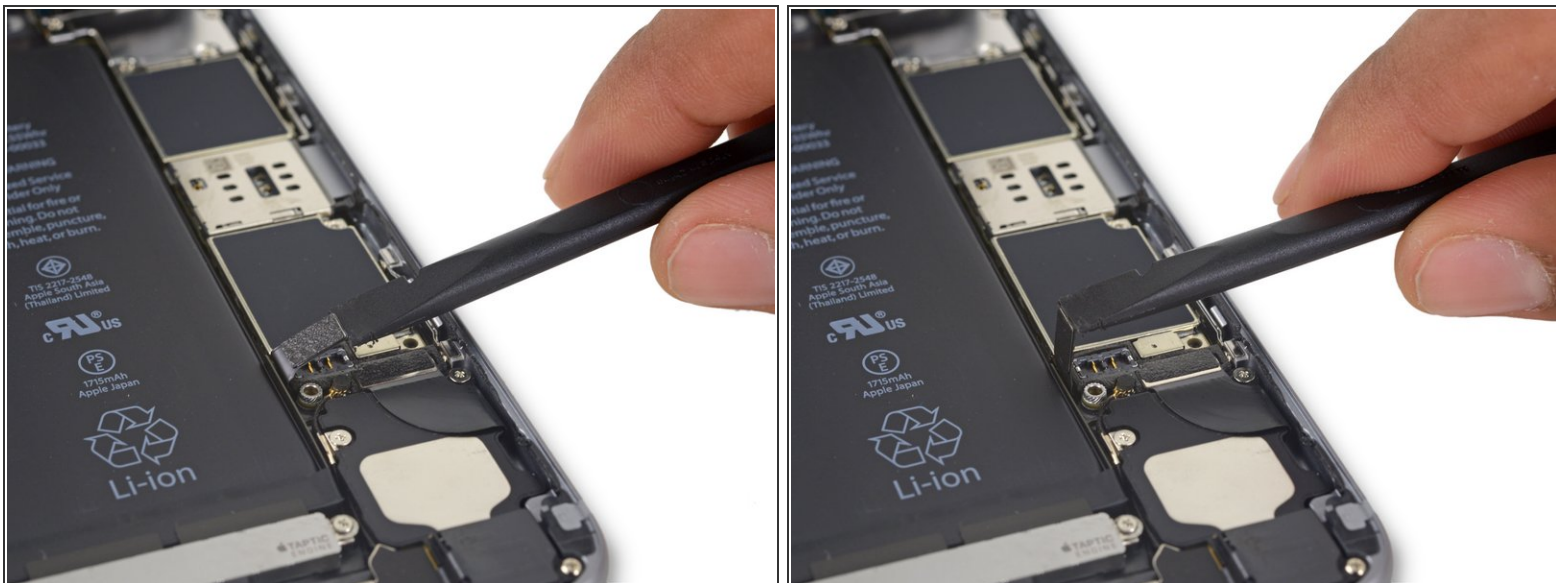
## Step 15



- Use the point of a spudger to disconnect the battery connector by prying it straight up from the logic board.



## Step 16



- Push the battery connector away from the logic board until it stays separated from its socket, so as to avoid any accidental connection to the battery while you work.

## Step 17 — Front Panel Assembly



- Remove the following four Phillips screws securing the display cable bracket:
  - Three 1.2 mm screws
  - One 2.8 mm screw



## Step 18



- Remove the display cable bracket.

## Step 19




- Use a spudger or a clean fingernail to disconnect the front camera flex cable by prying it straight up from its socket on the logic board.

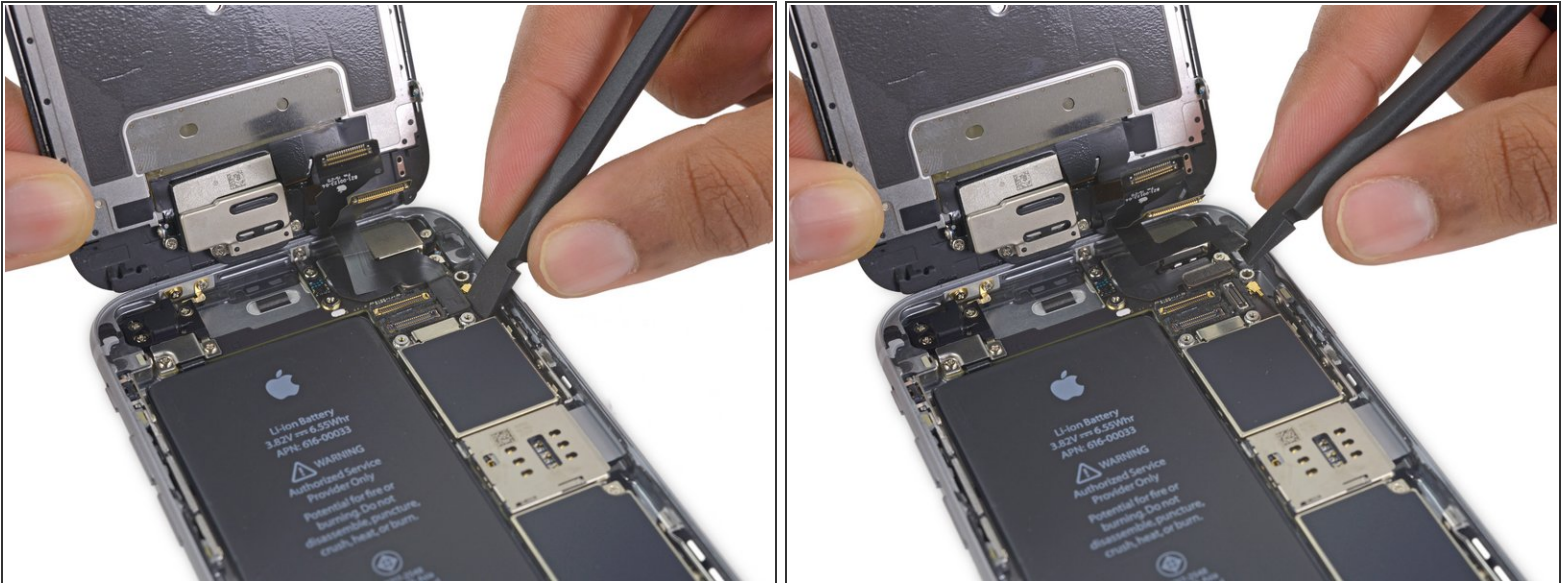
## Step 20




- Disconnect the digitizer cable by prying it straight up from its socket on the logic board.

 When reconnecting the digitizer cable, **do not press the center of the connector**. Press one end of the connector, then press the opposite end. Pressing in the center of the connector can bend the component and cause digitizer damage.

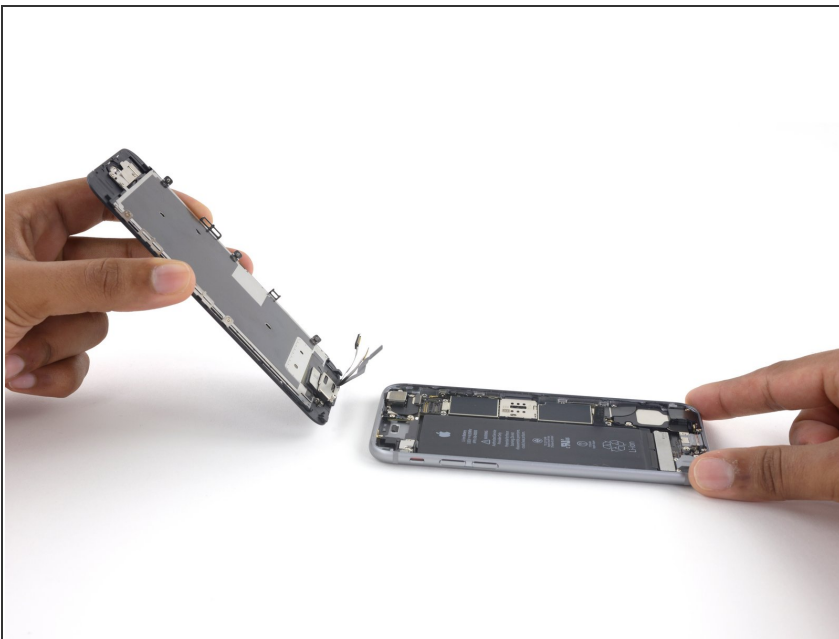
## Step 21




 Make sure the battery is disconnected before you disconnect or reconnect the cable in this step.

- Disconnect the display cable by prying it straight up from its socket on the logic board.

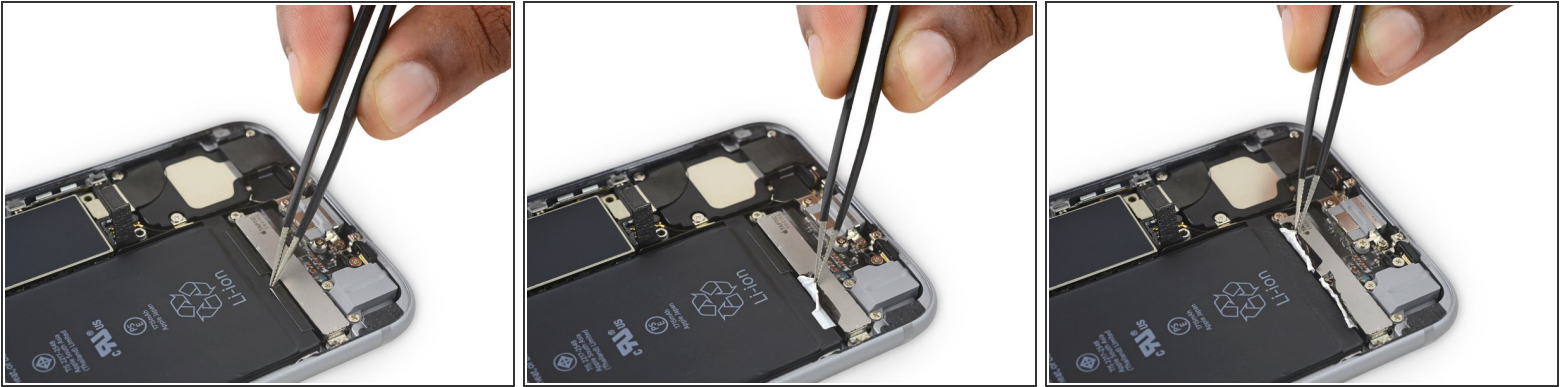
## Step 22



- Remove the display assembly.
-  During reassembly, pause here if you wish to [replace the adhesive around the edges of the display](#).



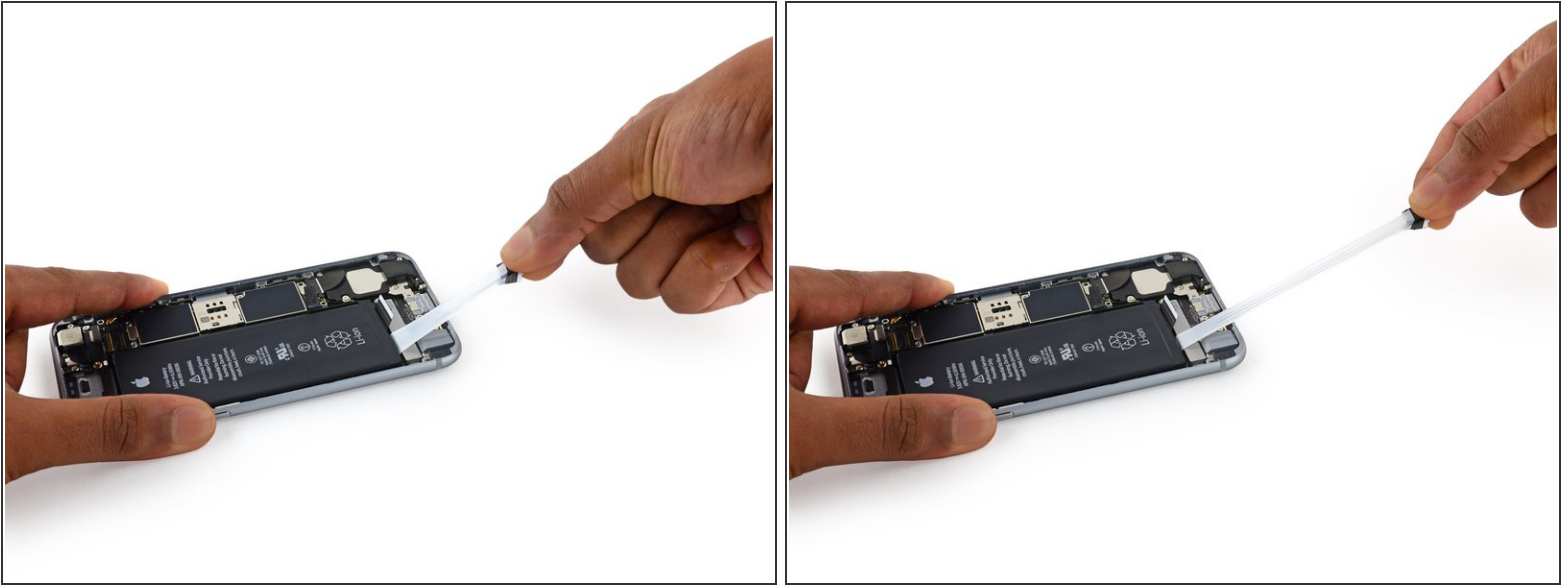
## Step 23 — Battery




- Use tweezers to peel back the tips of the two adhesive strips along the bottom edge of the battery.
  - ⚠ Use your fingers or blunt tweezers. Be careful when working near the battery; puncturing a lithium-ion battery can release dangerous chemicals and/or cause a fire.
- ℹ Optionally, you may wish to [remove the Taptic Engine](#) at this time. It's very easy to remove and will allow better access to the adhesive strips.




## Step 24




 Try to keep the strips flat and unwrinkled during this procedure; wrinkled strips will stick together and break instead of pulling out cleanly.

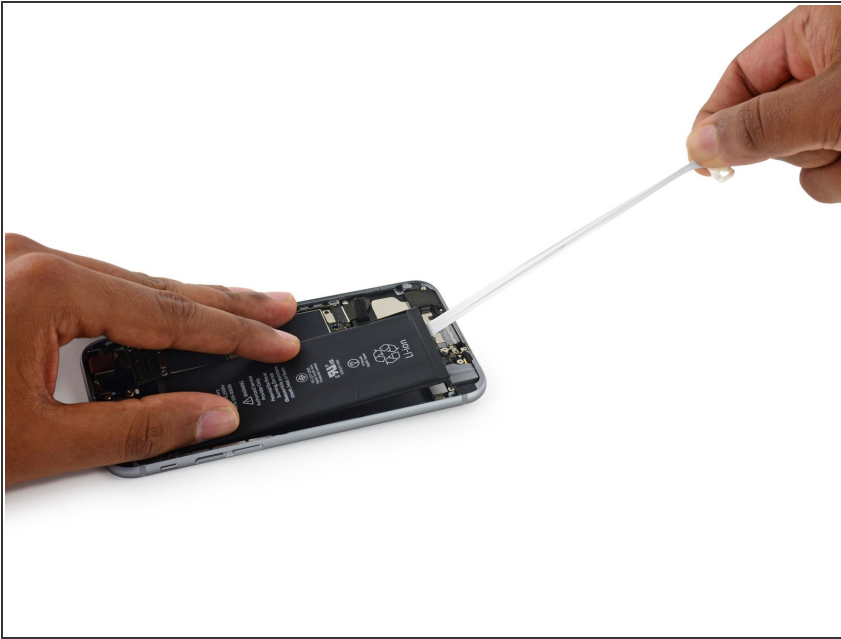
- Slowly pull one battery adhesive tab away from the battery, toward the bottom of the iPhone.

 To avoid tearing the adhesive strip, be careful not to snag it against the battery or lower components.

- Pull steadily, maintaining constant tension on the strip until it slips out from between the battery and the rear case. For best results, pull the strip at a 60° angle or less.

 The strip will stretch to many times its original length. Continue pulling and re-grab the strip near the battery if necessary.

## Step 25



- Repeat for the second strip.
- ⚠ Hold down the battery as you remove the second strip, or the strip may fling the battery when it separates from the case.
- If you removed both adhesive strips successfully, skip the next step.
- ⚠ If either of the adhesive strips broke off underneath the battery and could not be retrieved, **continue with the next step below.**

## Step 26



- **If you successfully removed both adhesive strips, move on to the next step.** Otherwise, you will need to pry the battery from the rear case.
- [Prepare an iOpener](#) and apply it to the back of the rear case, directly over the battery. Alternatively, you can apply heat using a heat gun or hair dryer.
- After about a minute, flip the phone over and use a plastic card to break up any remaining adhesive behind the battery.
  - ⚠ **Do not** insert your card in the area between the volume down (-) button and the top edge of the battery, or you may damage the volume control cable lying underneath.
  - ⚠ **Do not** pry against the logic board or you may damage the phone.
  - ⚠ Keep the card as flat as possible to avoid bending the battery, which may damage it and cause it to release dangerous chemicals or catch fire. Do not use any sharp tools to pry at the battery.
- ⓘ Alternatively, a piece of dental floss may be used to separate the battery from the rear case. A stronger alternative to dental floss is an unwound guitar string, such as a 0.009 E string from a 12-string set.
- Thread the floss or string behind the upper battery corners, bring the ends together, wrap them around a folded cloth, and pull evenly.

## Step 27



- Remove the battery.
- ⓘ If your replacement battery came in a plastic sleeve, remove the sleeve before installation by pulling it away from the ribbon cable.
- ★ If your new battery doesn't have adhesive preinstalled, refer to [this guide](#) to replace the adhesive strips.
- ★ Perform a [forced restart](#) after reassembly. This can prevent several issues and simplify troubleshooting.

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

Take your e-waste to an [R2 or e-Stewards certified recycler](#).

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

Repair didn't go as planned? Check out our [Answers community](#) for troubleshooting help.