



iPhone 5s Upper Component Cable Replacement

Use this guide to replace the upper component...

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INTRODUCTION

Use this guide to replace the upper component cable containing the flash, microphone, and sleep/power button cable of an iPhone 5s.

This guide requires removing the battery. Removing the battery with the adhesive strips is the safest method, but also leaves your battery without adhesive. When replacing your battery, use a piece of double-sided tape to secure it. The battery is pretty tightly secured in the device, but the tape will keep it from rattling.

You can also use this guide to replace the [logic board antenna bracket](#) and [contact clip](#).

[video: <https://www.youtube.com/watch?v=cJUKOvFQUWU>]



TOOLS:

[Anti-Clamp](#) (1)
[P2 Pentalobe Screwdriver iPhone](#) (1)
[iFixit Opening Tool](#) (1)
[Suction Handle](#) (1)
[Spudger](#) (1)
[Phillips #000 Screwdriver](#) (1)
[Tweezers](#) (1)
[SIM Card Eject Tool](#) (1)
[Utility Scissors](#) (1)
[Standoff Screwdriver for iPhones](#) (1)



PARTS:

[iPhone 5s Audio Control and Power Button Cable](#) (1)

Step 1 — Removing the Pentalobe screws



⚠ 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.
 - ⓘ 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



- ① 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



- ① 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.**
- ① 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.
- ① 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.

Step 5



- Pull the blue handle forwards to lock the arms.
- Turn the handle clockwise 360 degrees or until the cups start to stretch.
 - ⓘ Make sure the suction cups remain aligned with each other. 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.
- ⓘ 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.

- ⓘ 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.

Step 8



⚠ 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.
- ⓘ The next two steps apply to reassembly. Skip them and continue to Step 12 until reassembly.

Step 10



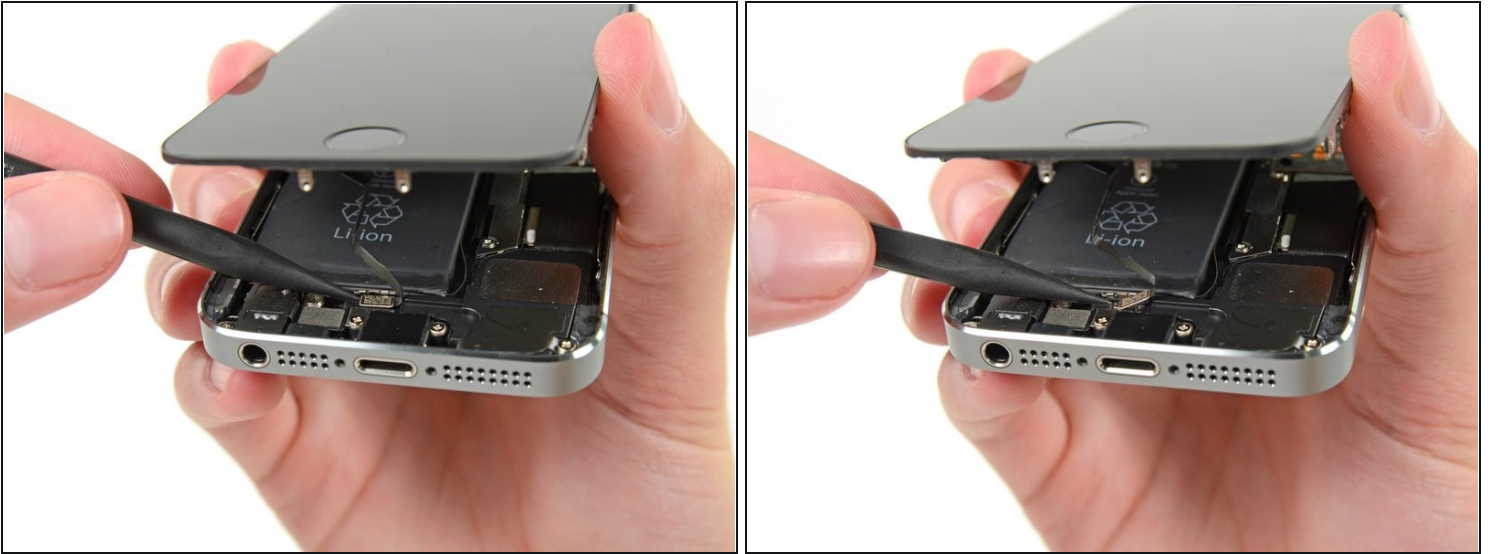
- ☑ During reassembly, you will need to reinstall the Touch ID cable bracket. The top of the bracket needs to slide between the battery and Touch ID cable connector, in front of the metal tab. The bottom must latch down over the connector.
- ☑ Slide the top of the bracket over the Touch ID cable connector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

Step 11



- ★ 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.
- ⓘ 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.

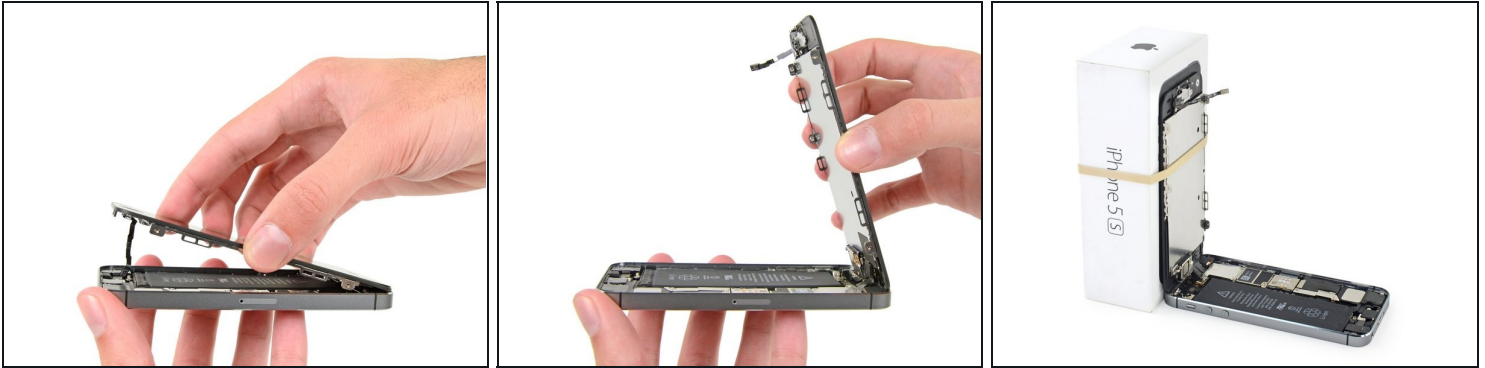
Step 12 — Disconnecting the home button cable connector



- 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.
- ⓘ 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.

Step 15



- 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.

Step 17



- 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.

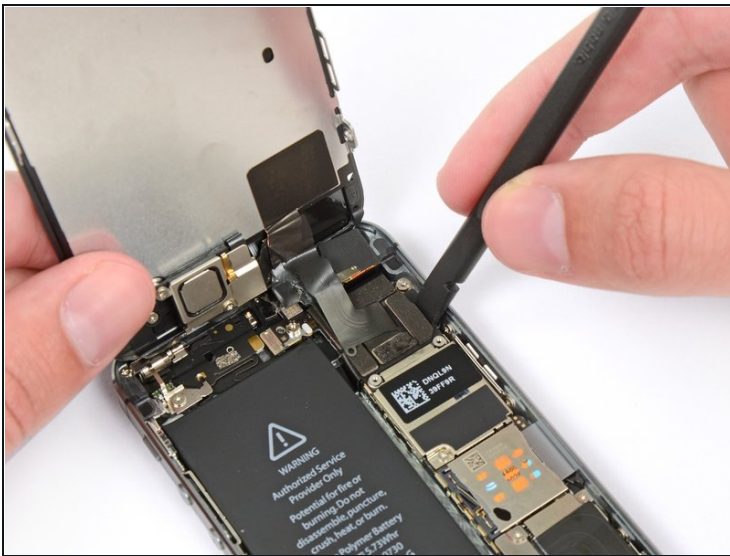
⚠ Be careful not to overtighten the screws, and don't force them. If they don't fit easily when you are securing them, they may be the wrong size.

Step 18



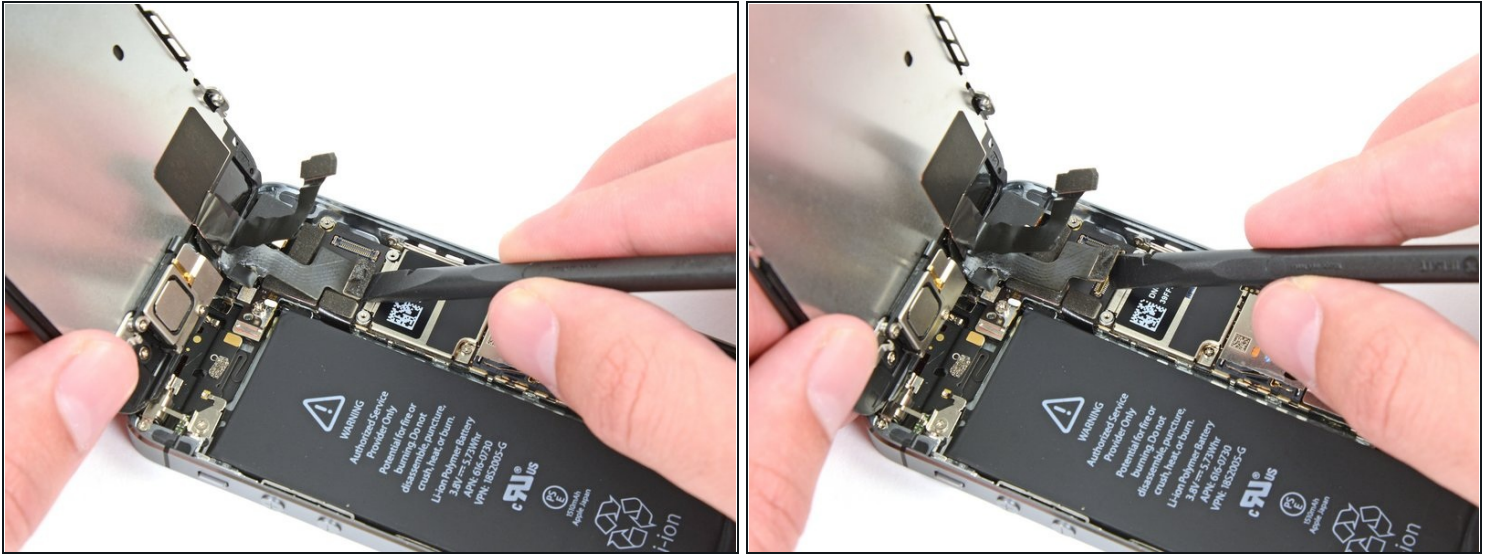
- Remove the front panel assembly cable bracket from the logic board.

Step 19



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

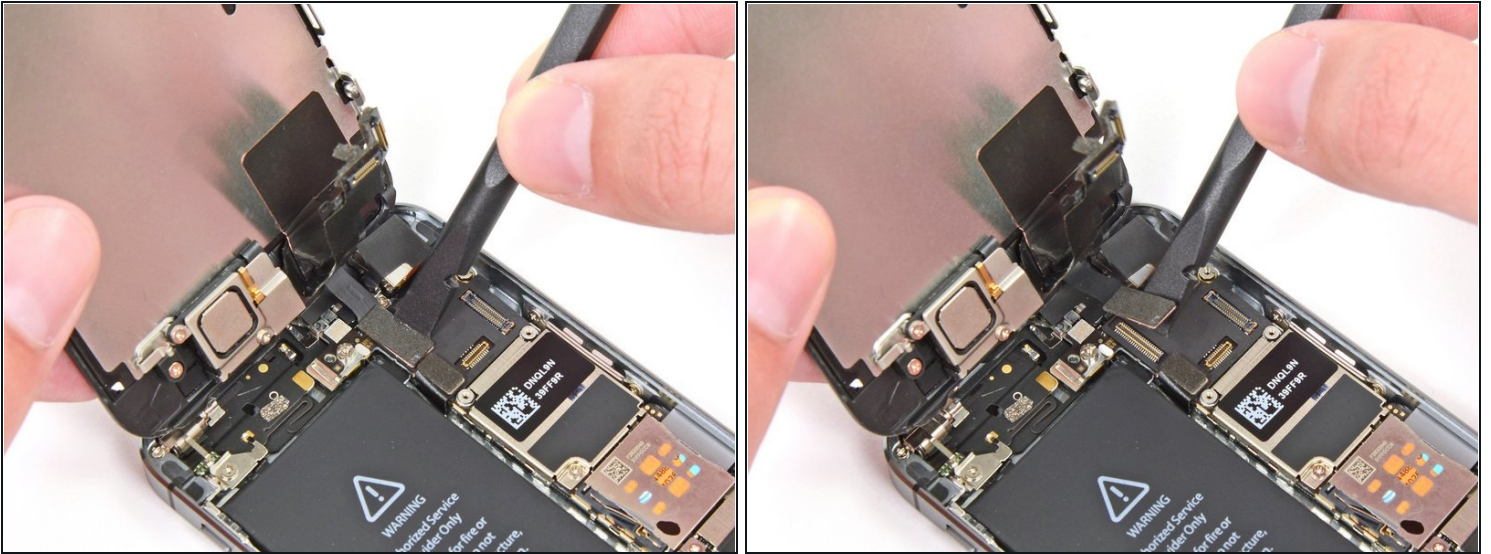
Step 20



⚠ 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.

Step 21



- Finally, disconnect the digitizer cable connector.

Step 22



- Remove the front panel assembly from the rear case.

Step 23 — SIM Card



- Insert a SIM card eject tool or a paperclip into the small hole in the SIM card tray.
- Press to eject the tray. This may require a significant amount of force.

Step 24



- Remove the SIM Card tray assembly from the iPhone.
- ☑ When reinserting the SIM card, ensure that it is in the proper orientation relative to the tray.

Step 25 — Logic Board



- Use a spudger to gently pry the button assembly cable up from its socket on the logic board.

⚠ Be very careful to only pry up on the connector and not the socket on the logic board. If you pry up on the logic board socket, you may break the connector entirely.

Step 26



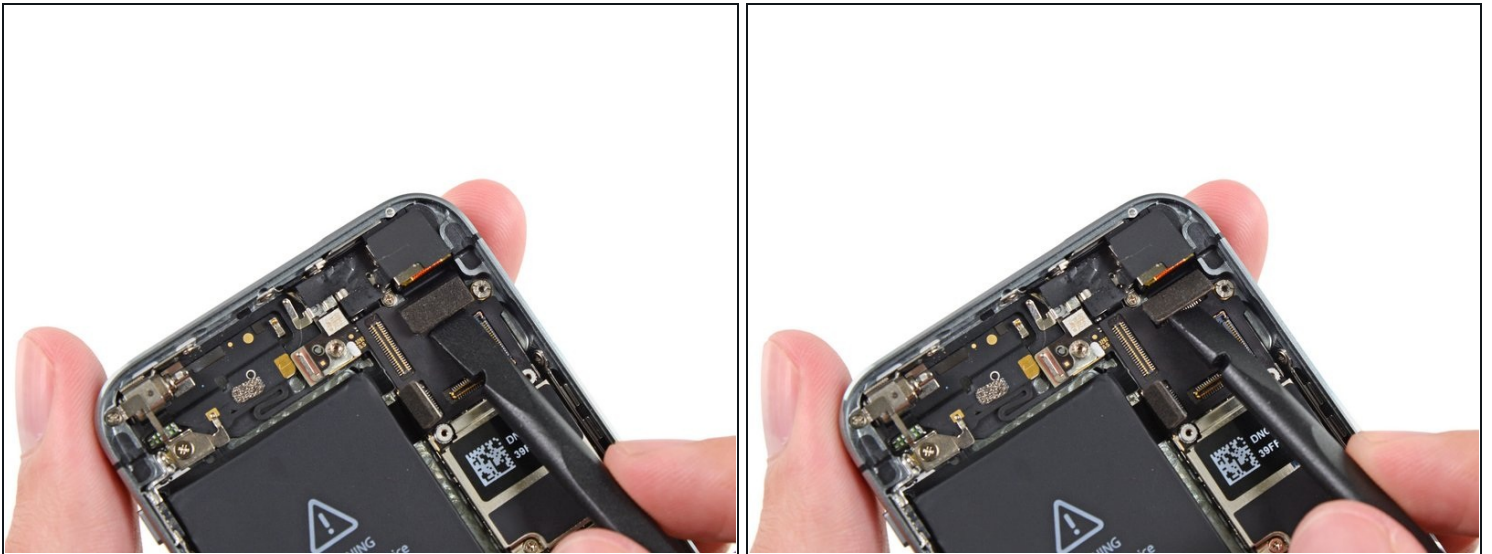
- Use a spudger to pry the Lightning connector cable up from its socket on the logic board.
- Fold the Lightning connector cable out of the way of the logic board.

Step 27



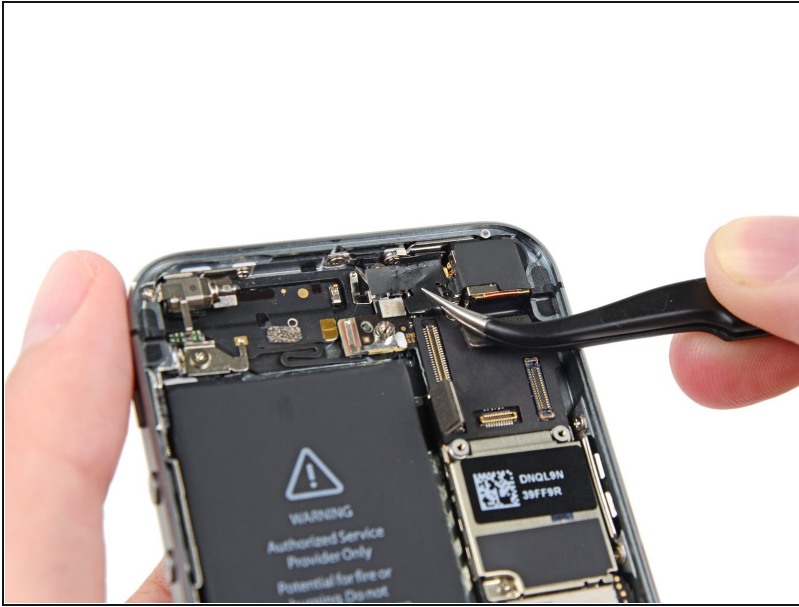
- Use the tip of a spudger to pry the antenna cable up from its socket on the logic board.

Step 28



- Use the flat end of a spudger to disconnect the rear-facing camera cable from its socket on the logic board.

Step 29



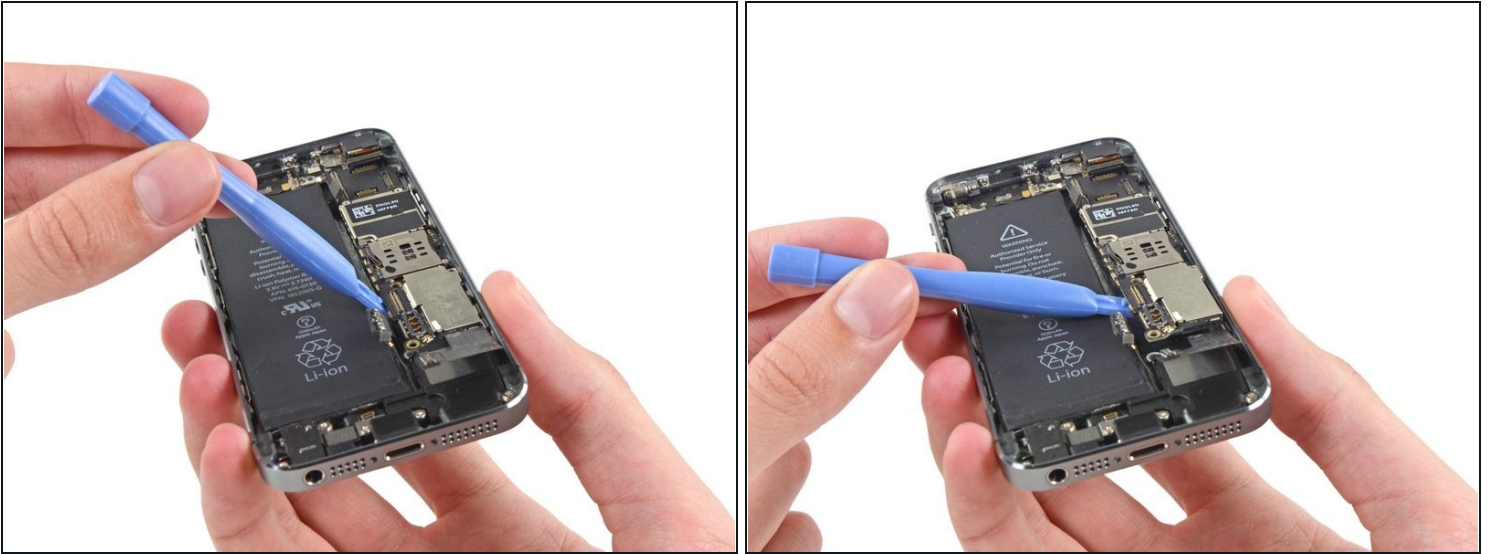
- Remove any tape covering the camera flash bracket.

Step 30



- Remove the following screws from the logic board:
 - One 2.4 mm Phillips #000 screw
 - ☑ This screw also holds a small metal contact beneath the logic board. It's held in place underneath a plastic bracket, but if you see it slipping out, refer to [this step](#) to remove it.
 - Two 2.3 mm Phillips #000 screws
 - Four 2.8 mm standoff screws
 - ① Standoff screws are best removed using a [standoff screwdriver](#) or bit.
- ⚠ In a pinch, a small flathead screwdriver will do the job—but use extra caution to ensure it doesn't slip and damage surrounding components.

Step 31



- Use a plastic opening tool to lift the logic board up enough to grab with your fingers.

Step 32



- Pull the logic board slightly away from the rear facing camera.

⚠ Do not try to remove the logic board just yet, as it is still connected by an antenna cable on the back.

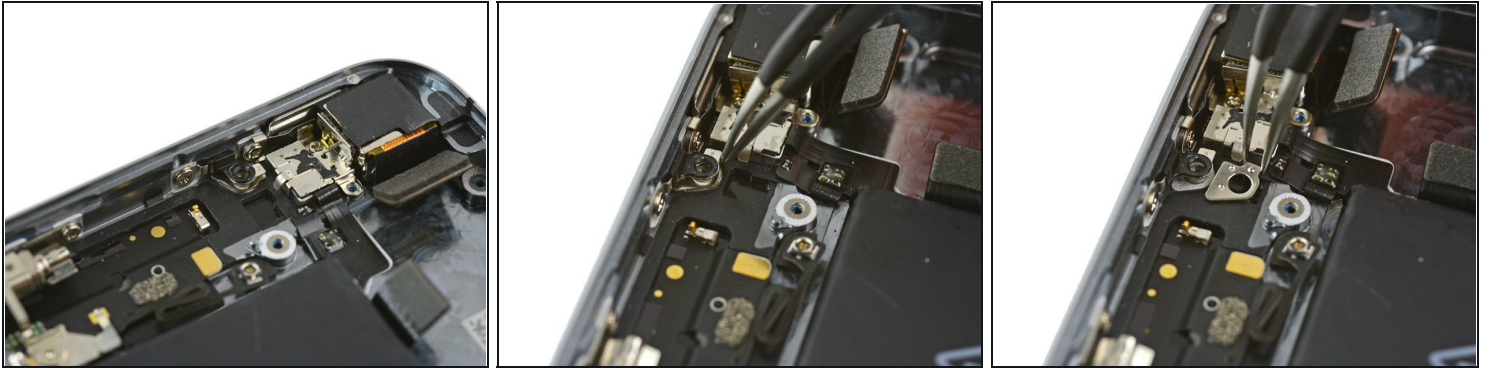
- Flip the logic board toward the battery, as if you are turning the page in a book.

Step 33



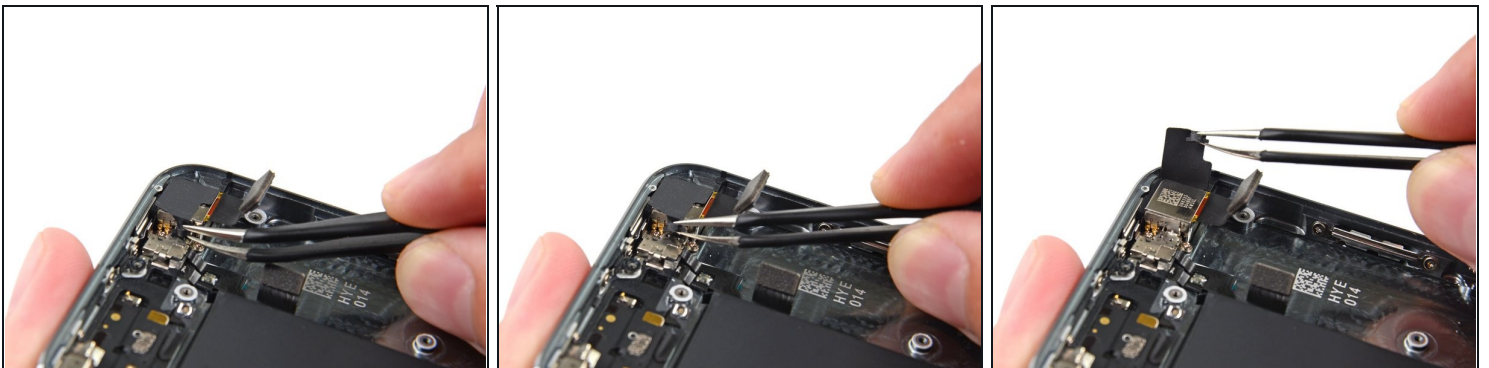
- Use the flat end of a spudger to disconnect the antenna cable on the back of the logic board.
- Remove the logic board from the iPhone.

Step 34



- At this point, a small metal plate near the rear facing camera is loose and may come free from its recess.
- ⓘ Because it is very small and easy to lose, it's best to remove this plate and set it aside while you continue to work on your phone.
- Use tweezers to remove the plate from beneath the bracket to the left of the rear-facing camera.
- ✦ When reassembling, orient the plate with the small tab to the right and the longest flat edge against the top of the phone.

Step 35 — Rear Facing Camera



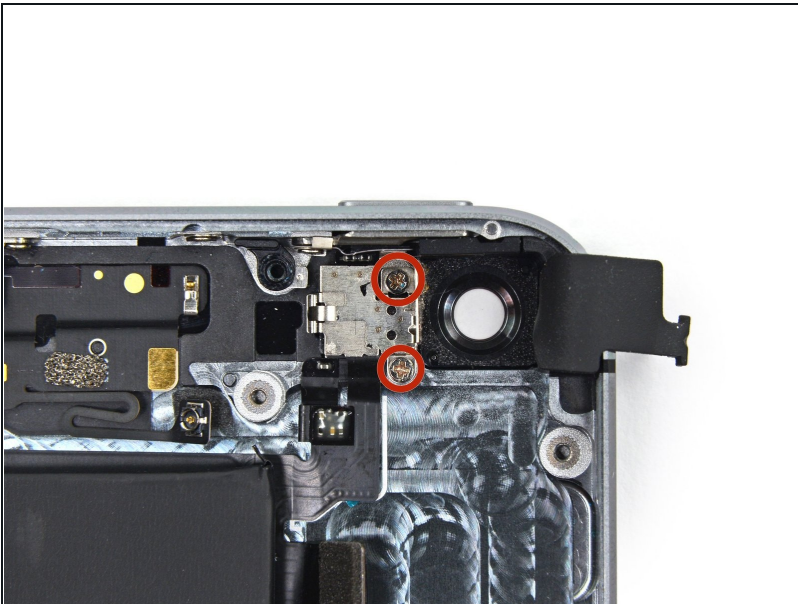
- Using a pair of tweezers, flip the rubber camera cover out of its clip and toward the outside of the rear case.
- ⚠ **Do not** attempt to fully remove this cover. It is attached to the rear case and only needs to be flipped open, not removed.

Step 36



- Remove the rear-facing camera from the rear case.
- ☑ During reassembly, the camera cable should bend in a 'U' shape to slot in behind the logic board.
- ☑ If the rubber camera bumper has shifted, be sure to replace it before reassembling your iPhone.

Step 37 — Camera Bracket



- Remove the two 1.6 mm Phillips #000 screws securing the rear-facing camera bracket.

Step 38



- Remove the rear-facing camera bracket from the rear case.

Step 39



- Remove the rubber camera bumper from the case.

Step 40 — Battery



- Insert the tip of a spudger into the hole in the battery adhesive tab near the headphone jack.
- Lift the tab up slightly and use the spudger to unfold the tab from its recess.

Step 41



- Pull the battery adhesive tab straight up from the phone.
- Cut the black battery adhesive tab between the two white adhesive strips, separating them.

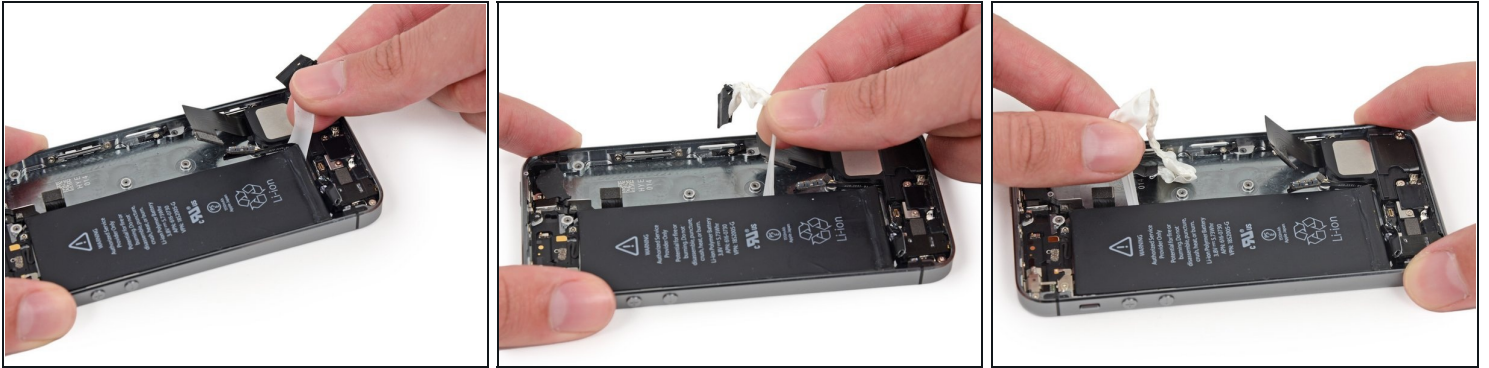
Step 42



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

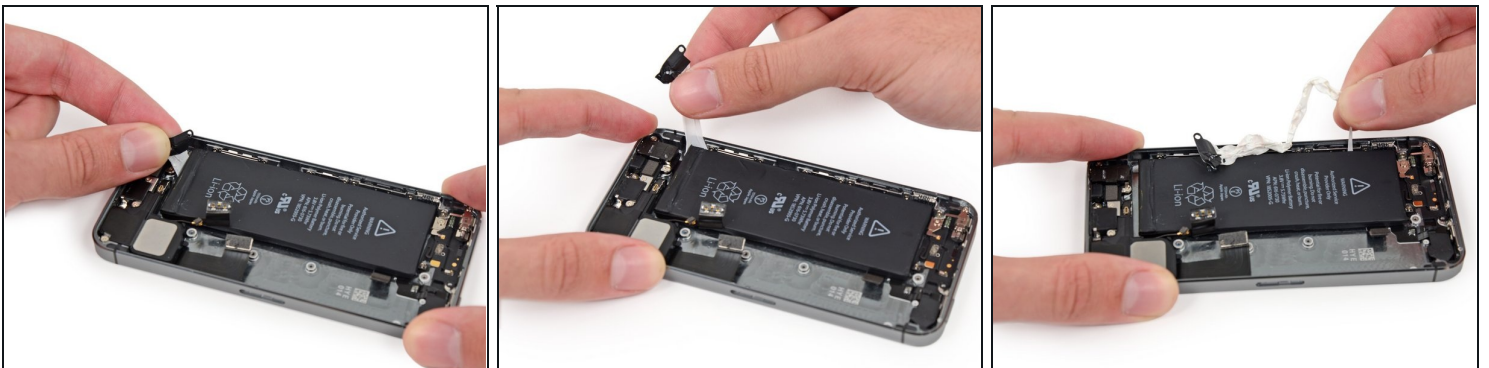
- Slowly pull one of the battery adhesive strips away from the battery, toward the bottom of the iPhone.
- Pull steadily, maintaining constant tension on the strip as it slips out from between the battery and the rear case. For best results, pull the strip at a 60° angle or less.

Step 43



- Guide the strip carefully around the corner and up the side of the battery.
⚠ Be careful not to snag it on the corner of the battery or on any of the other internal iPhone components.
- ⓘ The strip will stretch to many times its original length. Continue pulling, re-grabbing the strip near the battery if necessary, until the entire strip comes free.

Step 44



- Repeat to remove the second adhesive strip.
 - If you removed both strips successfully, skip the next two steps.
- ⚠ If either of the adhesive strips break underneath the battery and cannot be retrieved, try to remove the remaining strip, and then proceed to the next step.

Step 45



- If any of the adhesive strips broke off and the battery remains stuck to the rear case, [prepare an iOpener](#) or use a hair dryer to heat the rear case directly behind the battery.

Step 46



- Flip the iPhone back over and insert a [plastic card](#) between the case side of the battery and the rear case.
- ⚠ Be careful to keep the card as flat as possible to avoid bending the battery, which may damage it and cause it to release dangerous chemicals.
- Press the card in farther to break up the adhesive behind the battery.

Step 47



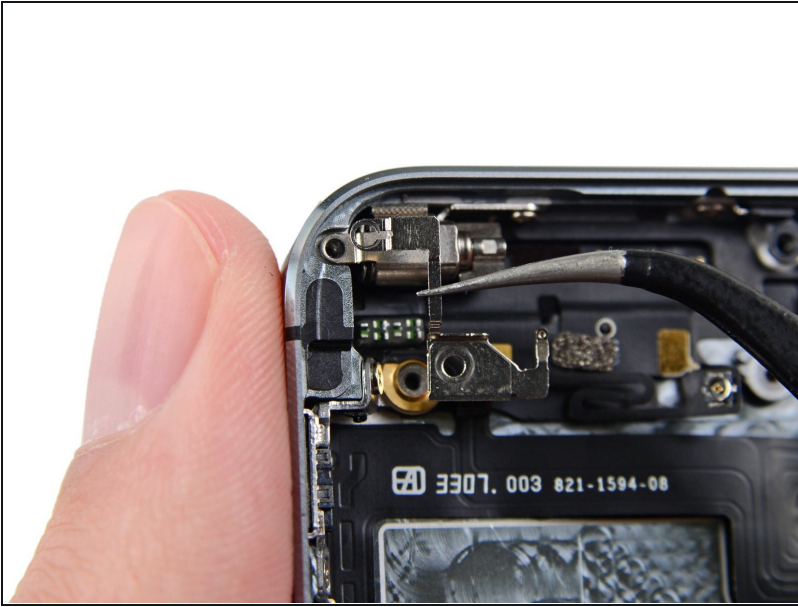
- Remove the battery from the rear case.
- ☑ When installing the battery, refer to [this guide](#) to replace your battery's adhesive strips.

Step 48 — Vibrator



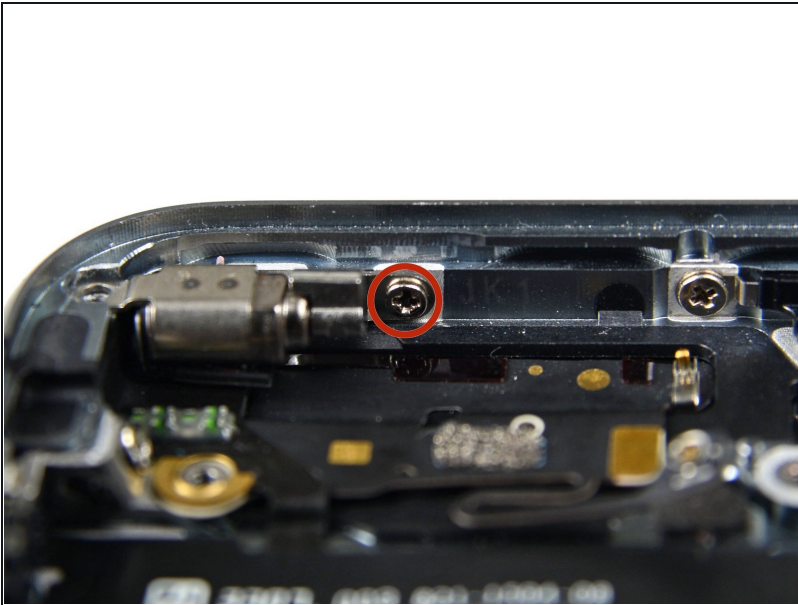
- Remove the following Phillips #000 screws from the vibrator bracket:
 - One 1.7 mm screw
 - One 2.5 mm screw

Step 49



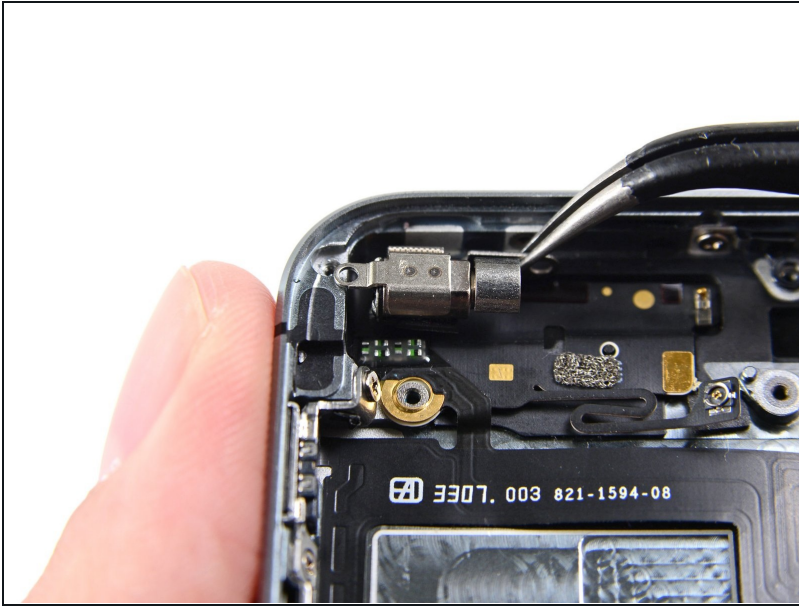
- With a set of tweezers, remove the vibrator bracket.

Step 50



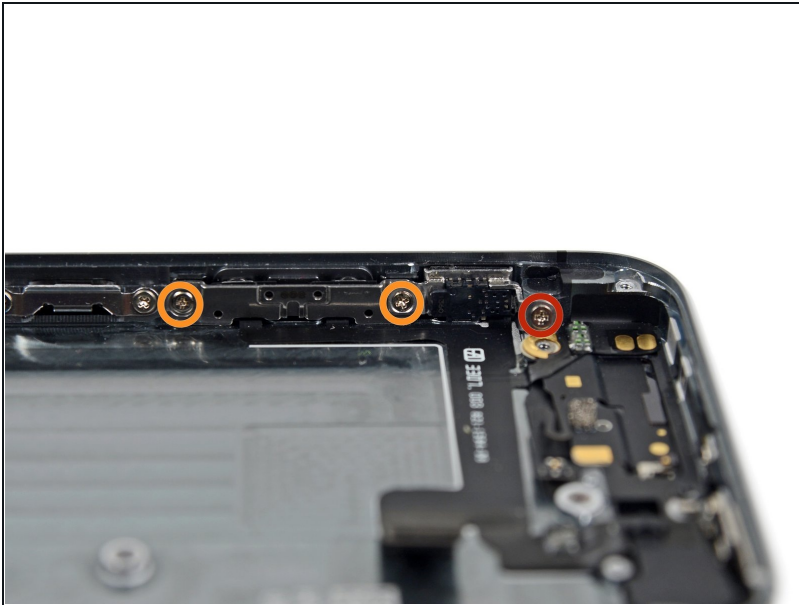
- Remove the 1.7 mm Phillips #000 screw securing the vibrator to the rear case.

Step 51



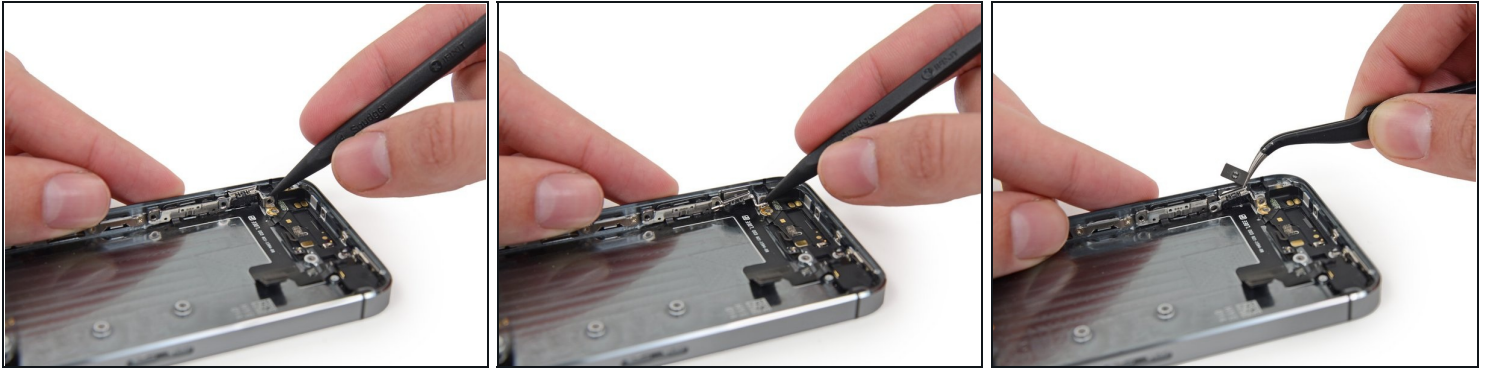
- Use a set of tweezers to remove the vibrator from the rear case.

Step 52 — Upper Component Cable



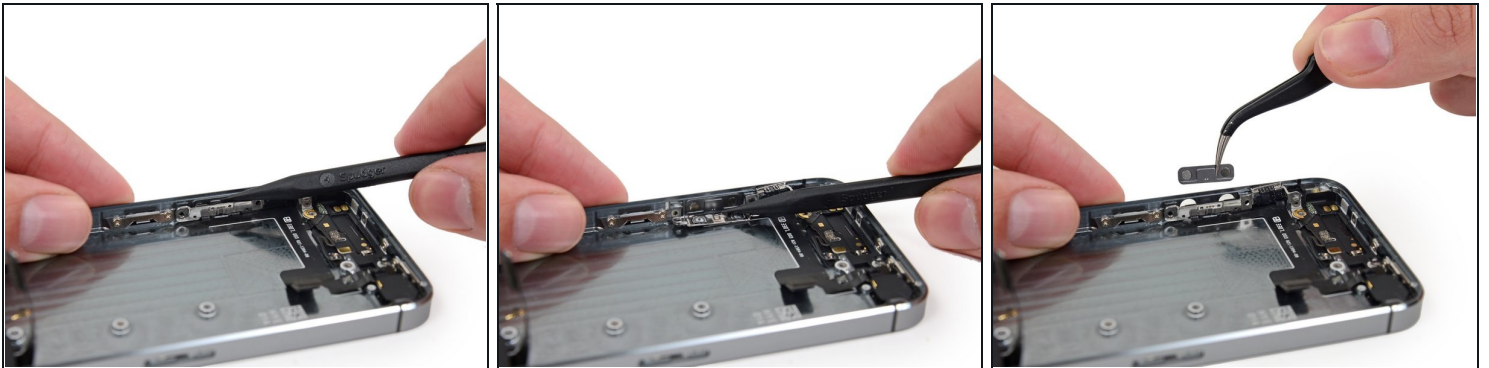
- Remove the following screws securing the volume button and ringer switch brackets to the side of the rear case:
 - One 1.9 mm Phillips screw
 - Two 1.6 mm Phillips screws

Step 53



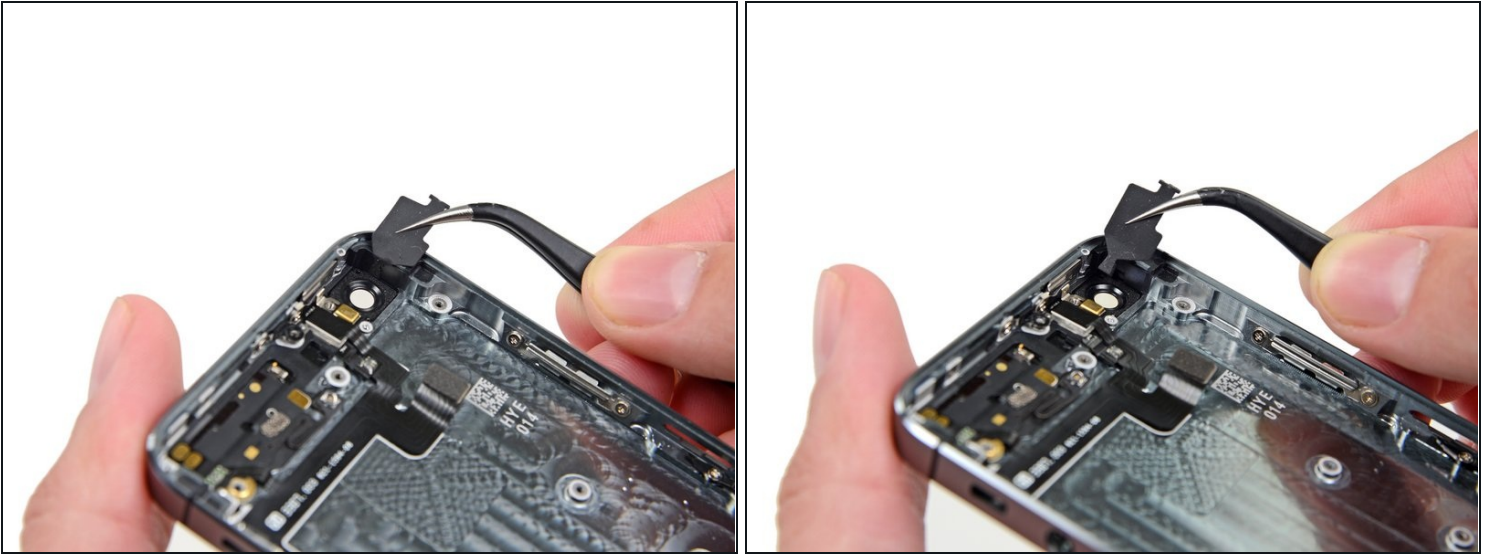
- Use the tip of a spudger to pry the ringer switch bracket from the side of the rear case.
- Remove the ringer switch.
- ☑ Note the orientation for reassembly: The red line should be at the top of the button. The notch in the back of the ringer switch button should be in the same position as, and mate with, the mechanical switch on the cable.

Step 54



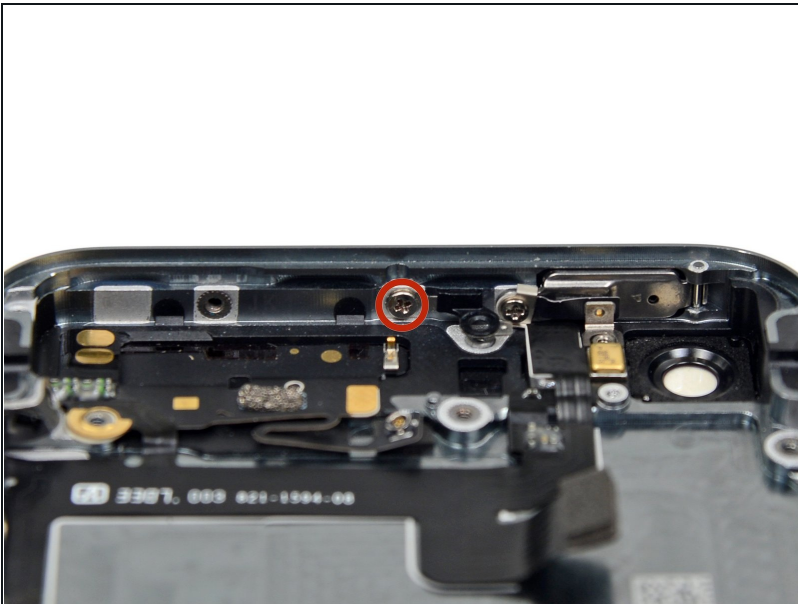
- Use a spudger to pry the volume button bracket from the side of the rear case.
- Remove the volume buttons.
- ☑ During reassembly, make sure the '+' (volume up) button is in the hole closest to the ringer switch.

Step 55



- Use tweezers to pull the rubber rear-facing camera cover out of its slot in the rear case.

Step 56



- Remove the 1.3 mm Phillips #000 screw securing the logic board antenna bracket to the rear case.

Step 57



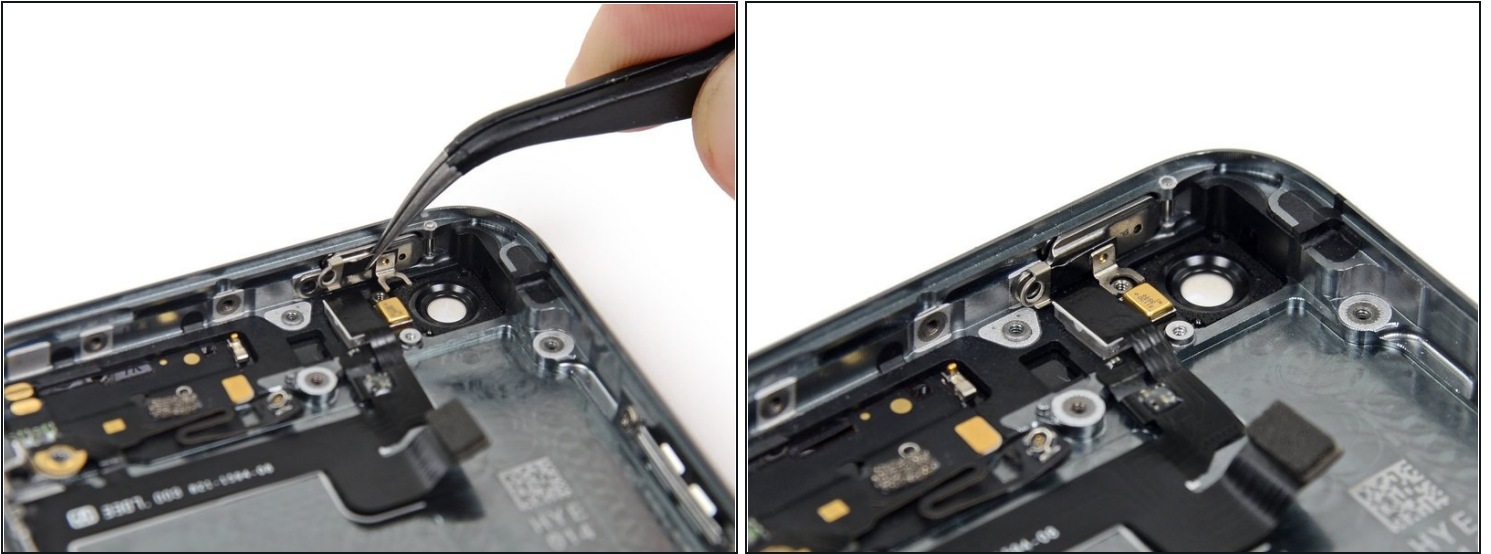
- Remove the logic board antenna bracket.

Step 58



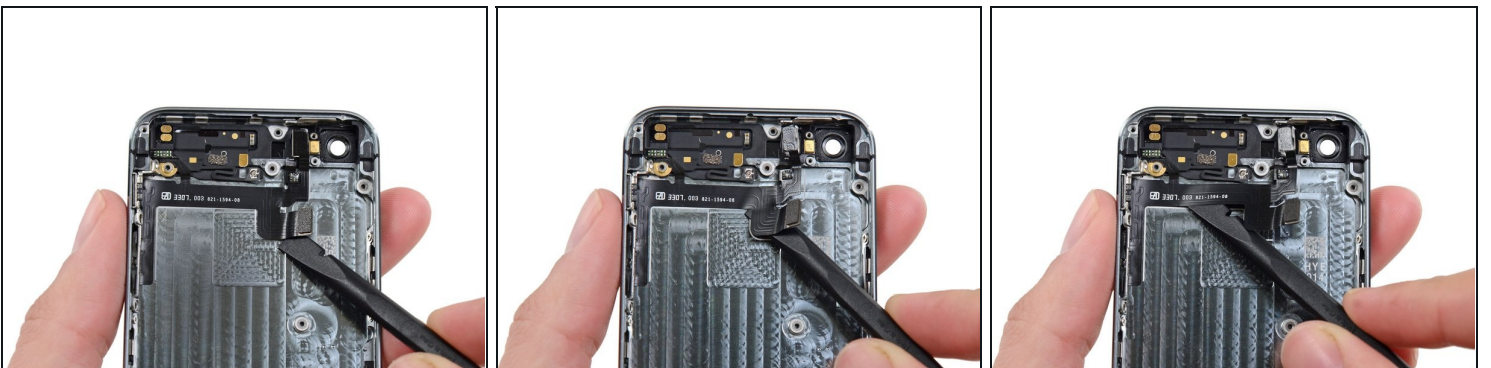
- Remove the 2.1 mm Phillips #000 screw securing the contact clip and power/sleep button bracket.

Step 59



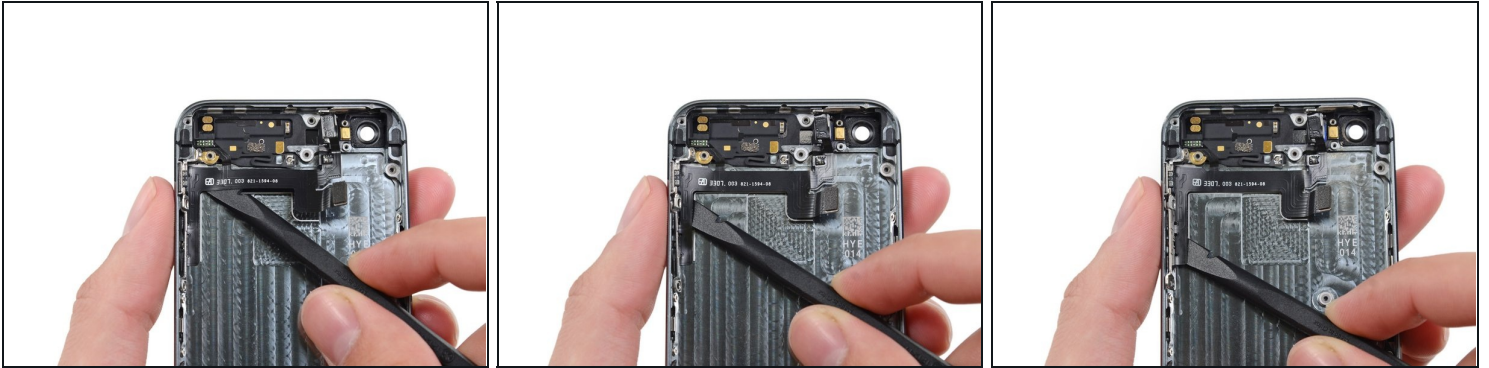
- Remove the contact clip from the iPhone.
- ☑ During reassembly, be sure the bracket is properly seated between the rear-facing camera flash and the top edge of the case.

Step 60



- Slide the flat end of a spudger under the upper component assembly cable to free it from the rear case.

Step 61



- Run the flat end of the spudger under the portion of the cable near the volume control buttons.

Step 62



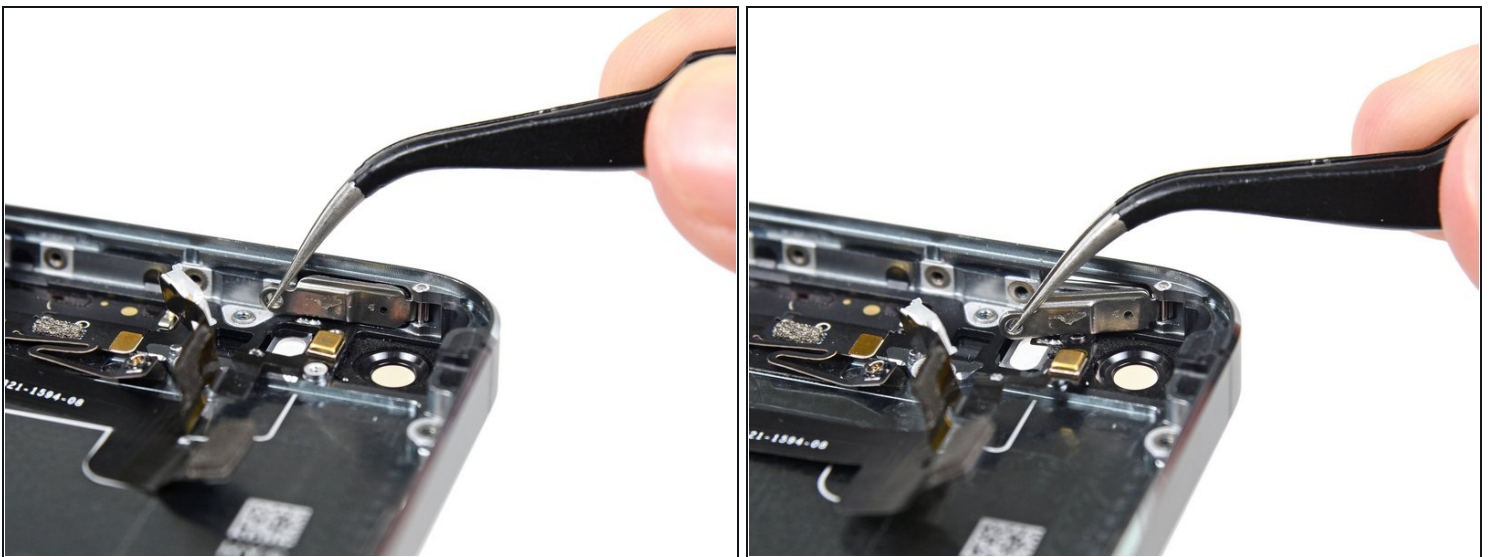
- Use the tip of a spudger to free the adhesive securing the vibrator contact portion of the upper assembly cable from the rear case.
- If the flash assembly has not already popped out of its hole in the rear case, use the tip of a spudger to push it free.

Step 63



- Use the tip of a spudger to free the microphone portion of the assembly from the case.

Step 64



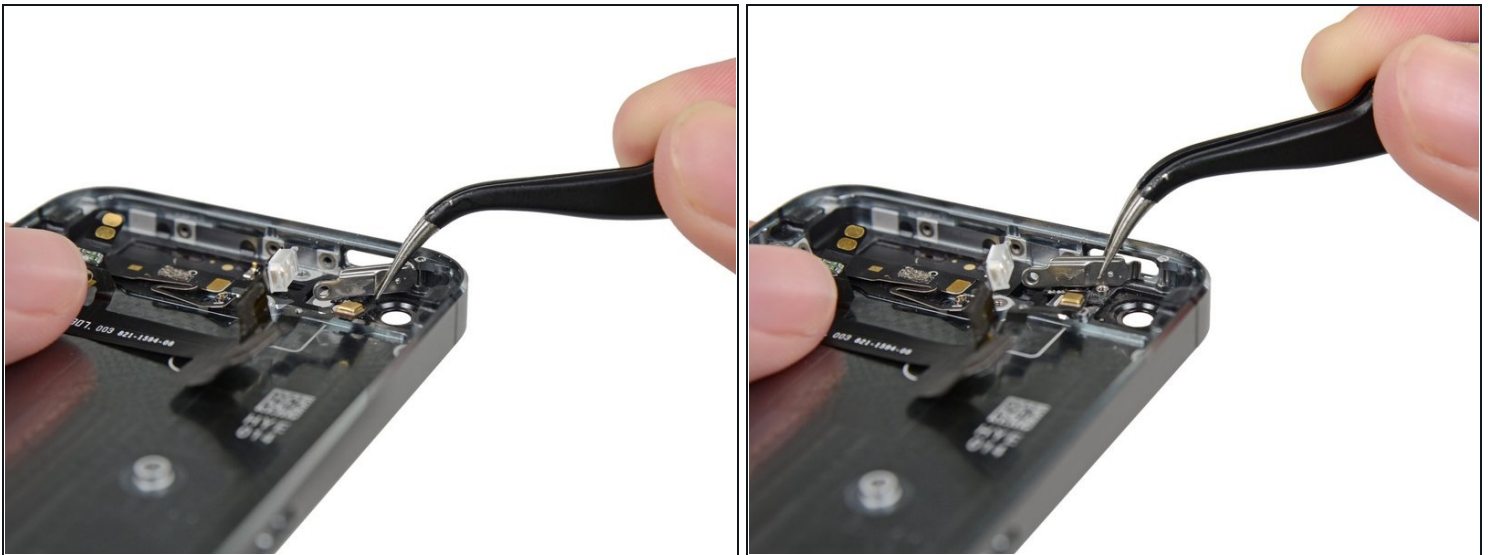
- Use a set of tweezers to swing the power/sleep button bracket away from the case.

Step 65



- Use the tip of a spudger to push the power/sleep button into the phone slightly.
- Use a set of tweezers to remove the button.
- ☒ Double check the orientation of the button for reassembly. The two "L" shapes should be upside down, and the metal bar should be folded onto the top of the button.

Step 66



- Unclip the power/sleep button bracket hinge from the post holding it in the iPhone.

Step 67



- Remove the upper component assembly from the iPhone.

⚠ This cable has many delicate ends and can tear very easily. If you encounter any resistance when you lift the cable, stop immediately. Run a spudger under the entire cable and try lifting again.

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