



# iPhone 5s Front Facing Camera and Sensor Cable Replacement

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# INTRODUCTION

Use this guide to replace the sensor cable containing the front-facing camera, microphone, ambient sensors, and the earpiece speaker contact pad, in your iPhone 5s.

**You can also use this guide to replace the following parts:**

- [Front Camera Bracket](#)
- [Camera and Sensor Cable Copper Shield Sticker](#)



## TOOLS:

- [P2 Pentalobe Screwdriver iPhone](#) (1)
- [iSlack](#) (1)
- [Phillips #000 Screwdriver](#) (1)
- [iFixit Opening Tools](#) (1)
- [Suction Handle](#) (1)
- [Spudger](#) (1)
- [iOpener](#) (1)
- [Tweezers](#) (1)



## PARTS:

- [iPhone 5s/SE Front Camera and Sensor Cable](#) (1)
- [iPhone 5s/SE Camera and Sensor Cable Copper Shield Sticker](#) (1)
- [iPhone 5s/SE Front Camera Bracket](#) (1)

## Step 1 — Front Facing Camera and Sensor Cable



- 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 2





**⚠ 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 3



-  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 — iSclack Opening Procedure



**i** The next two steps demonstrate using the , a great tool for safely opening the iPhone 5s that we recommend for anyone doing more than one repair. **If you aren't using the iSclack, skip to [invalid guide link].**

- Close the handle on the iSclack, opening the suction-cup jaws.
- Place the bottom of your iPhone in between the suction cups, against the plastic depth gauge.
  - The top suction cup should rest just above the home button.
- Open the handles to close the jaws of the iSclack. Center the suction cups and press them firmly onto the top and bottom of the iPhone.

## Step 5



- Hold onto your iPhone securely and close the handle of the iSclack to separate the suction cups, pulling the front panel up from the rear case.
- The iSclack is designed to safely open your iPhone just enough to separate the pieces, but not enough to damage the home button cable.
- ⓘ Peel the two suction cups off your iPhone.
- **Skip the next three steps and continue on Step 9.**

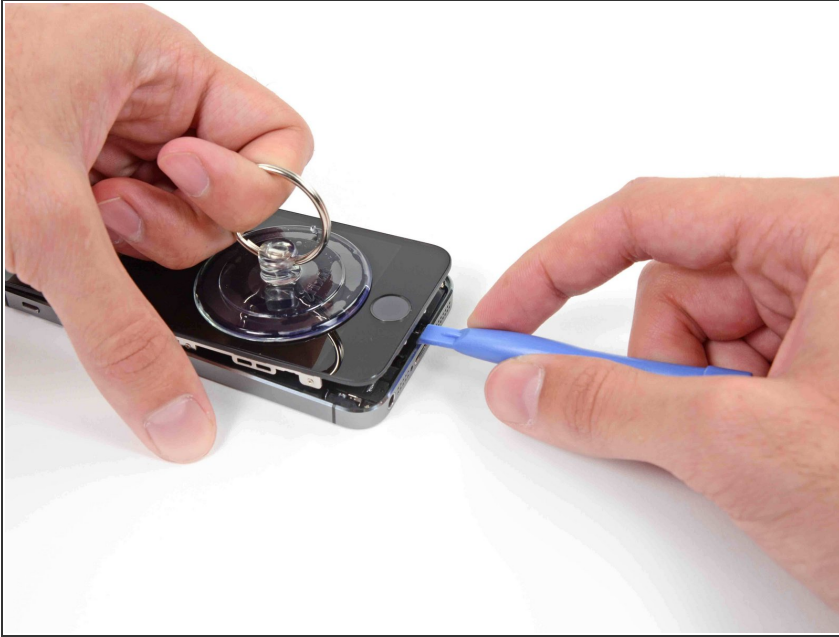


## Step 6 — Manual Opening Procedure



- If you don't have an iSlack, 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



**⚠** 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 5s front panel assembly is a much tighter fit than most 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 display assembly.

## Step 9



- 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.

## Step 10



- i 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, and the front must latch down over the connector.
- ➡ Slide the top of the bracket over the Touch ID cable connector from left to right.

## Step 11



- 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

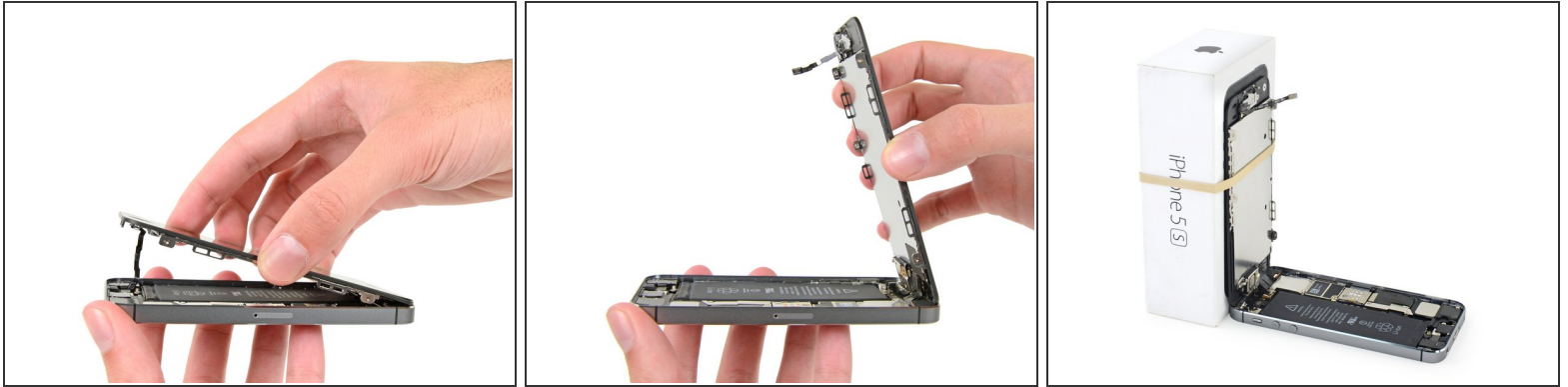


- Use the tip of a spudger to pry the home button cable connector up out of its socket.

**⚠ 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



- 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, you may break the connector entirely.**

## 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.

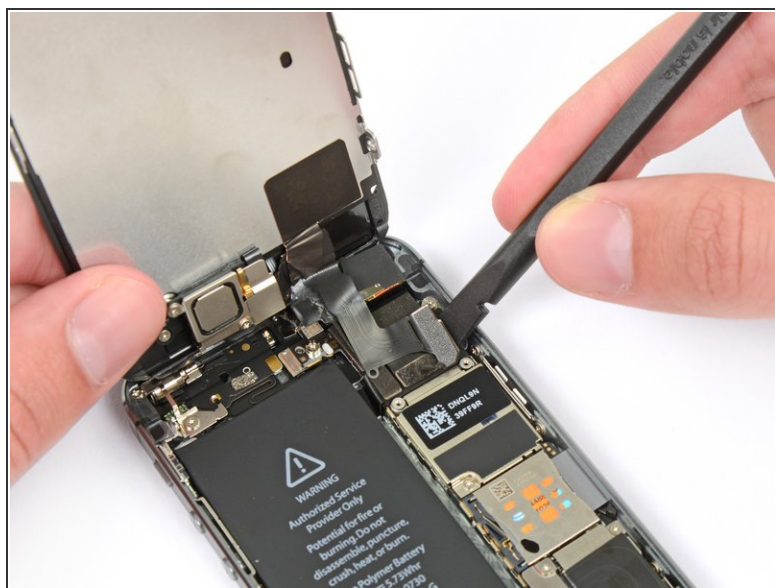
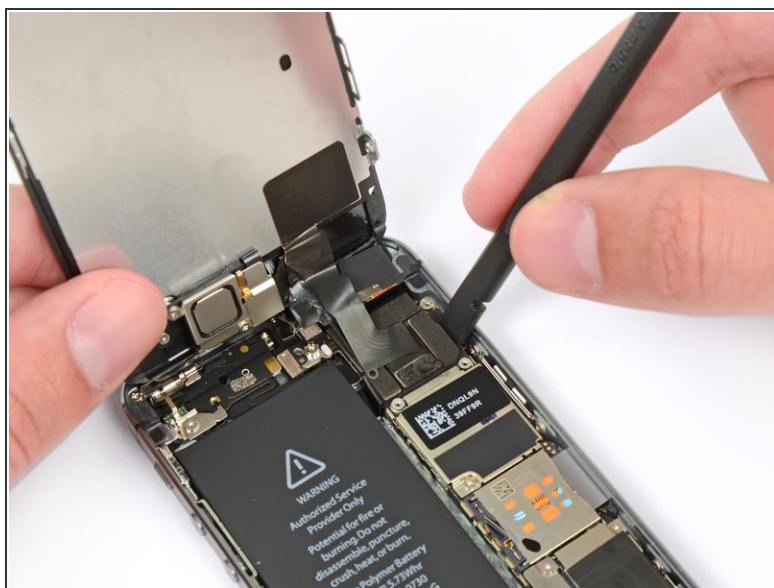
⚠ Be careful not to over-tighten the screws, and don't force them. If they don't fit easily when you are securing them, they may be the wrong size.

## Step 18



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

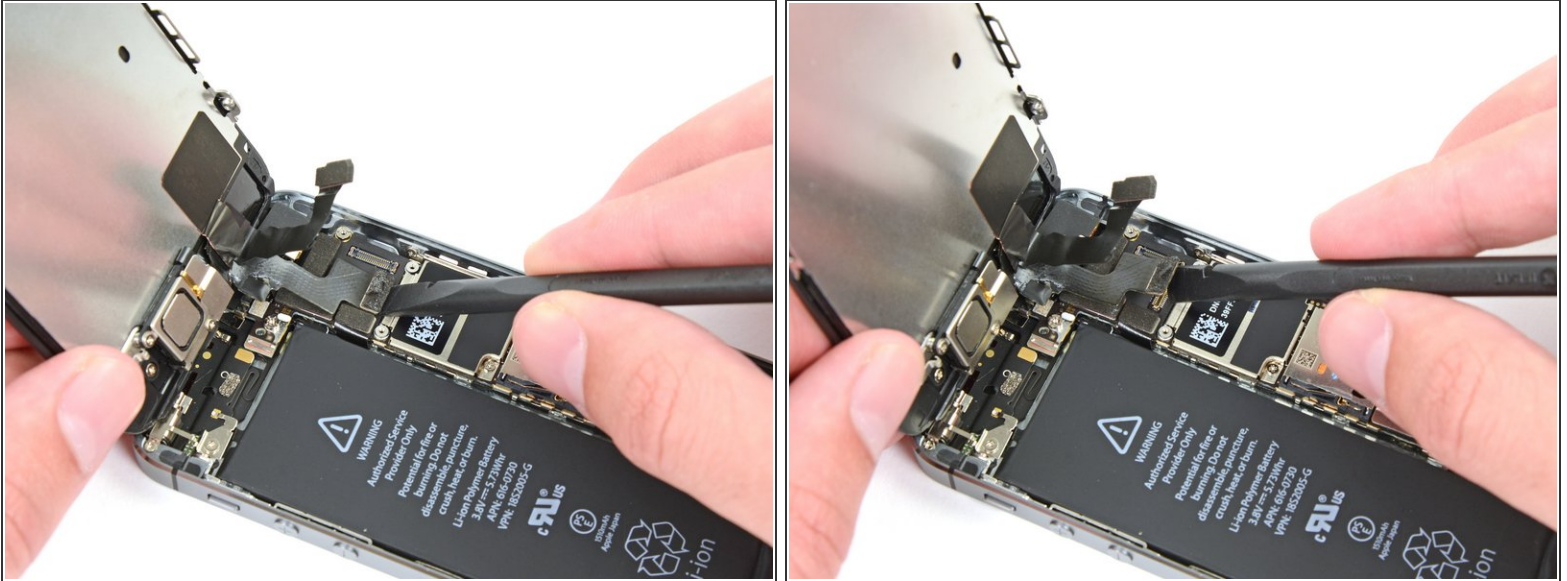
## Step 19



- Use the flat end of a spudger to disconnect the front-facing camera and sensor cable.

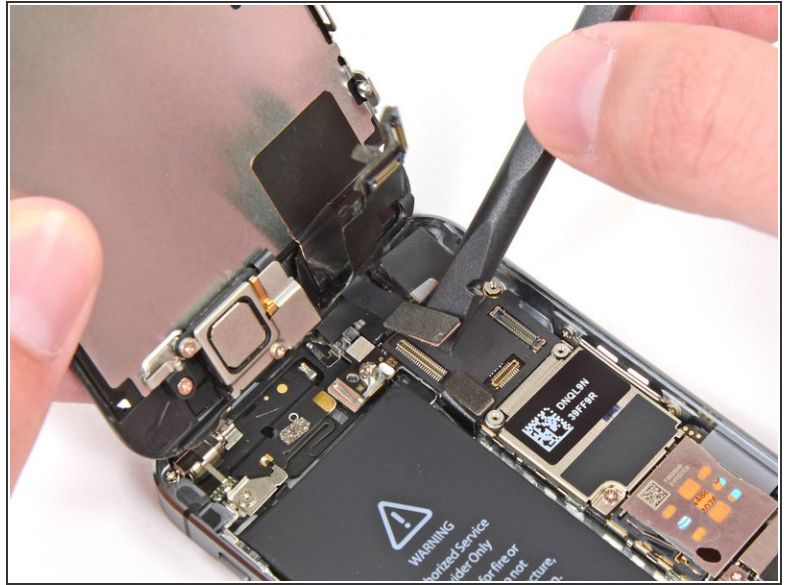


## Step 20



- While still supporting the front panel, 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.

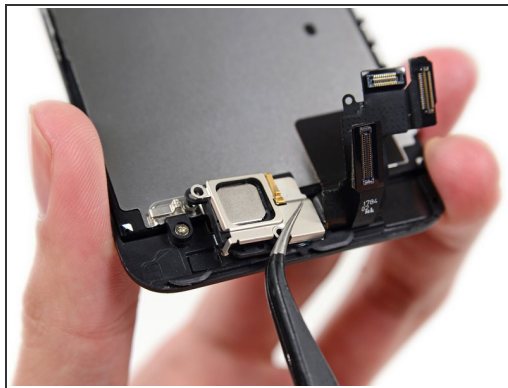
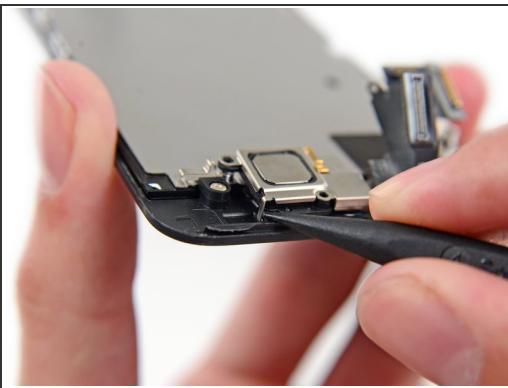
## Step 23



- Remove the two screws securing the upper component bracket:
  - 4.0 mm Phillips #000
  - 2.3 mm Phillips #000

⚠ It is imperative that the right screws are inserted into their respective holes. Otherwise it may cause severe damage to the LCD during reassembly.

## Step 24



- ⓘ Orient the phone as shown, with the home button on top and the earpiece speaker on bottom.
- Gently dislodge the clip, near the bottom left corner of the earpiece speaker bracket, outwards from its recess on the front panel assembly.
- ⚠ Do **not** pry with excessive force, as the earpiece speaker bracket is fragile and malleable.
- With a set of tweezers, shift the bracket to the left to unclip it.

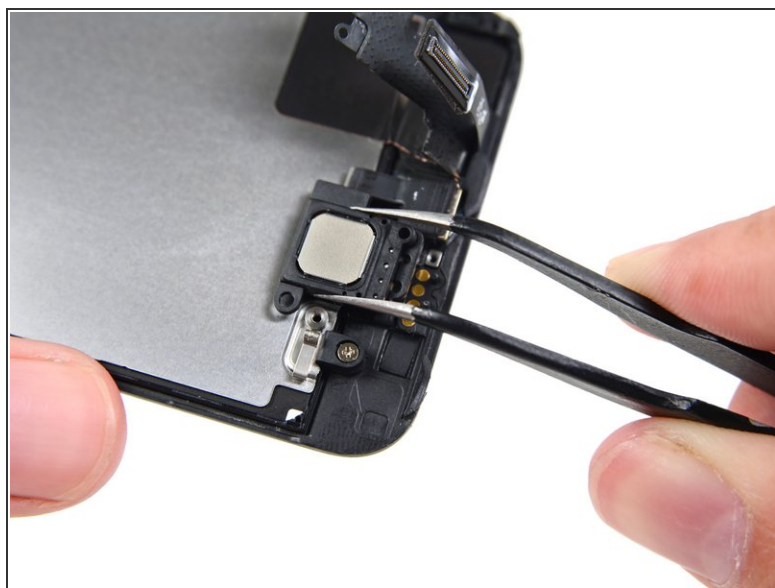


## Step 25



- Remove the bracket from the display.

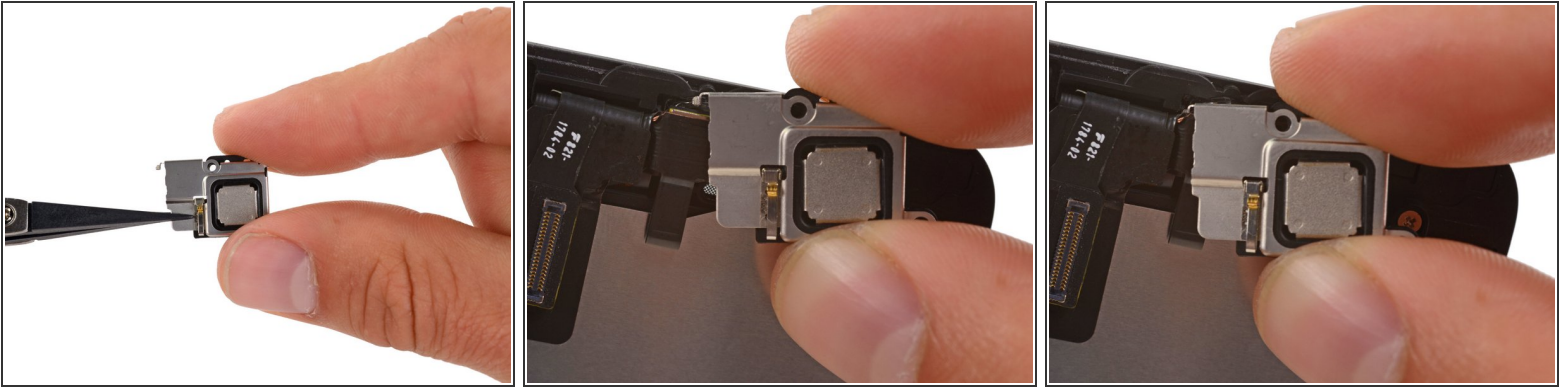
## Step 26



- Remove the earpiece speaker with a set of tweezers.

**⚠ If you use your fingers, be very careful not to touch the gold contacts on the front panel. Finger oil can prevent good contact.**

## Step 27



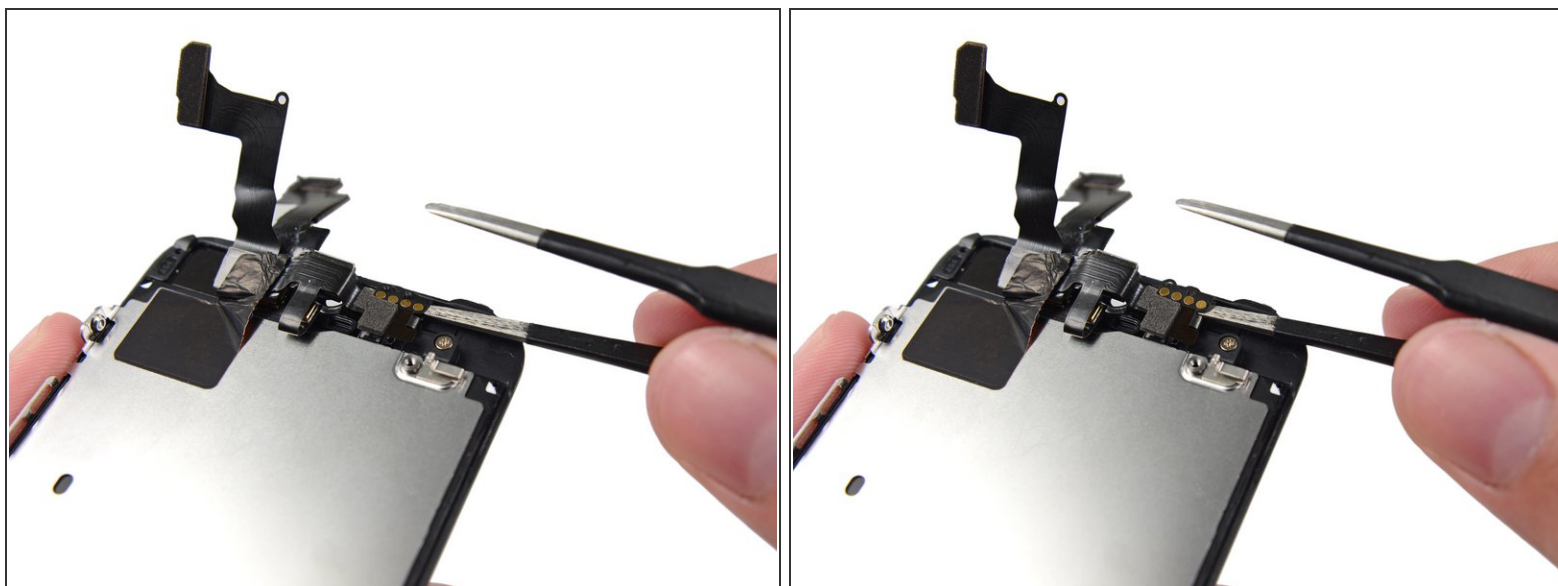
- ✦ To replace the earpiece speaker, it is easiest to install the speaker and bracket together:
- Place the earpiece speaker bracket over the speaker so that it fits snugly in its housing.
  - Slide the left hook of the bracket into the notch above the top left corner of the front facing camera.
  - Rotate the bracket so it lays flat on the rear case, aligning the two screw holes. Press the bracket into place, ensuring the hook on the right side of the metal bracket latches onto the display.

## Step 28



- ⓘ This step requires removing the front facing camera and sensor cable from your front panel assembly.
- ⓘ The front facing camera and sensor cable is adhered to the display assembly with mild adhesive.
- Using an to soften the adhesive will help safely remove it. [invalid guide link] to use it.

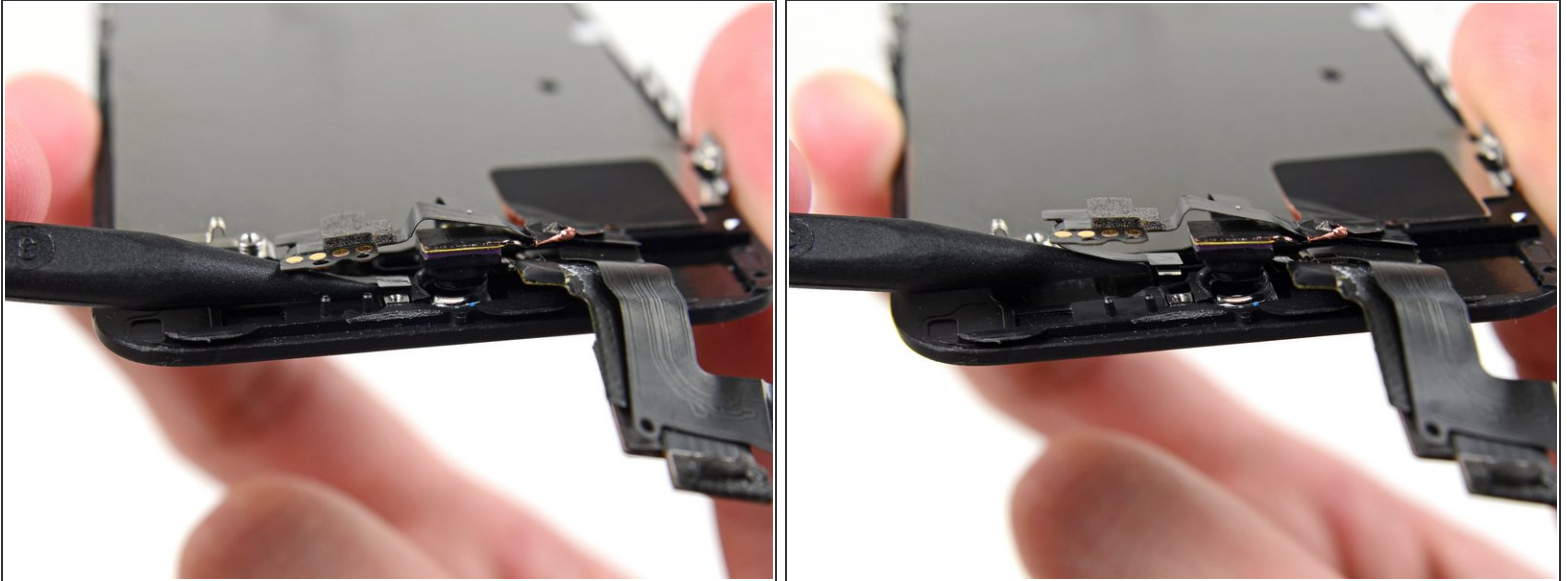
## Step 29



- Using the edge of a set of tweezers or a metal spudger, gently pry the earpiece speaker contact cable up, to separate this portion of the camera and sensor cable from the adhesive below.

**⚠ Only pry directly under the earpiece speaker contacts**—there are sensors and microchips that can be damaged by prying elsewhere.

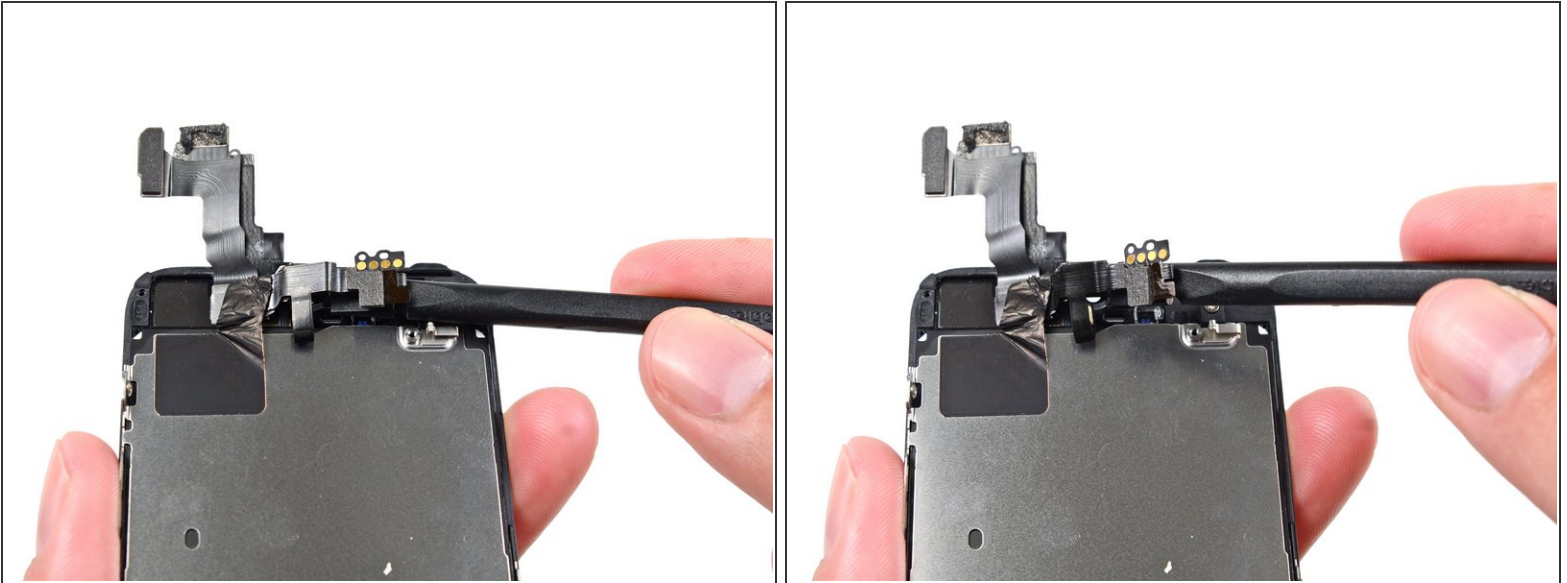
## Step 30



- Use the point of a spudger to lift the ambient light sensor and proximity sensor out of their recess in the display assembly.
- ⓘ There is a small, square plastic and metal holder for the proximity sensor. This holder is essential for the proximity sensor to function correctly.
- ⓘ If replacing the proximity sensor make sure that the holder remains adhered to the back of the display. If it comes off with the old proximity sensor, remove it from the old sensor and use a tiny bit of adhesive to re-attach it to the back of the display.



## Step 31



- Use the flat end of a spudger to gently peel the front-facing camera portion of the cable away from the display assembly.

## Step 32

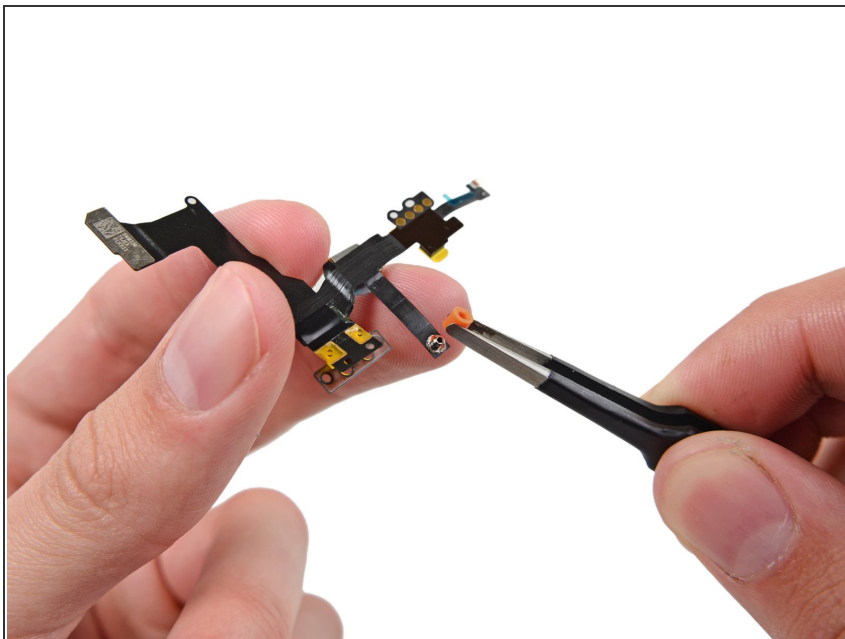


**i** If you are reattaching the same shield plate to a new display, there is no need to peel the cable assembly off the LCD shield plate. Skip this step.

- Carefully peel the cable assembly off of the LCD shield plate to remove it from the display.

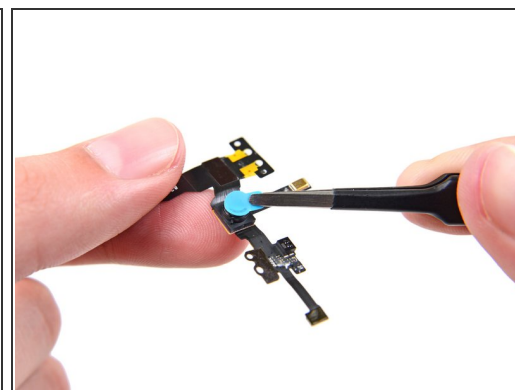
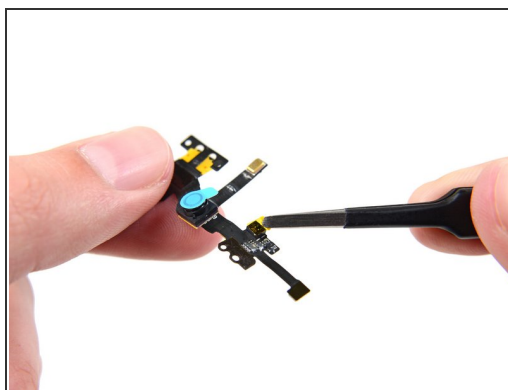
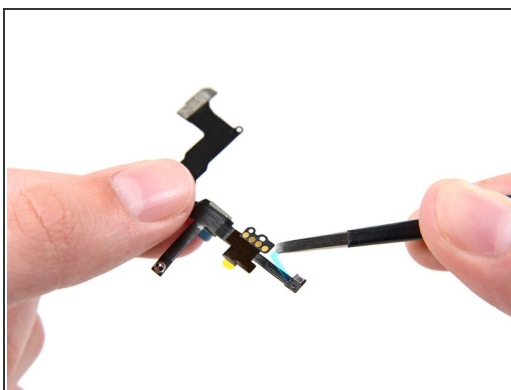
**!** Be careful not to grab the digitizer cable while peeling up the front facing camera and sensor assembly cable.

## Step 33



- Remove any plastic coverings from the microphone on the sensor cable assembly.

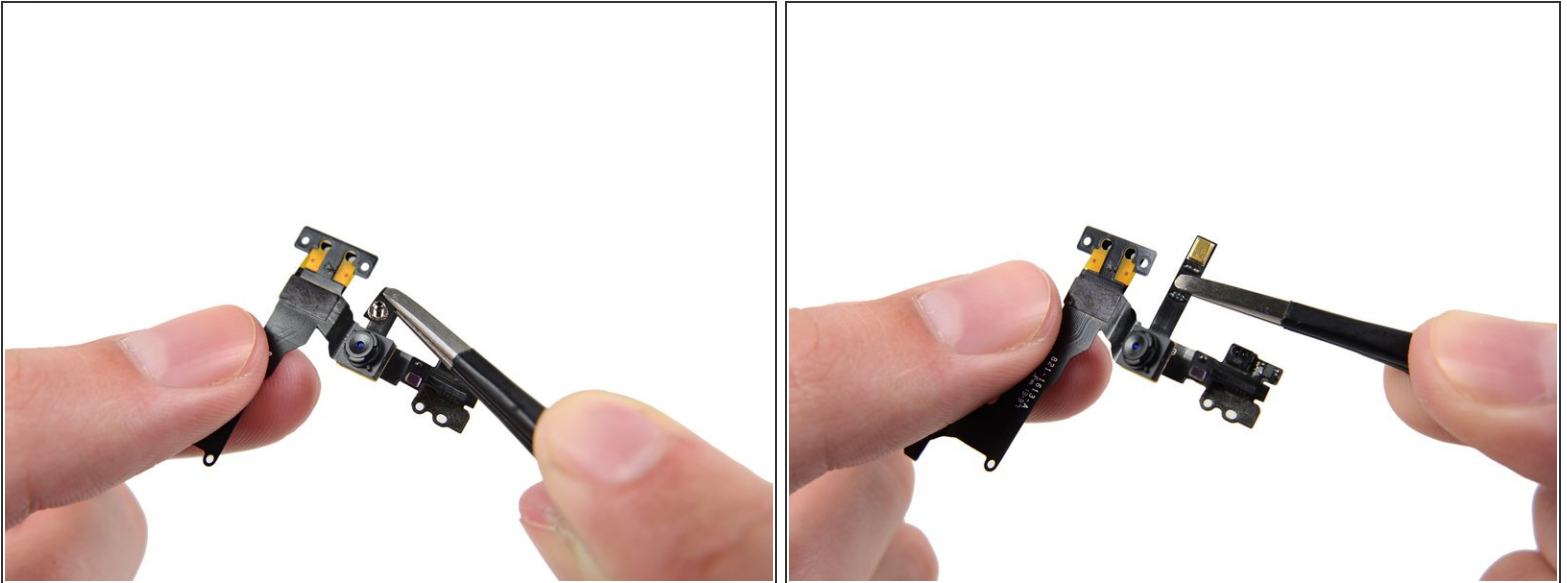
## Step 34



- Remove any clear backing strips from the light sensor, cable and front-facing camera.



## Step 35



- ❗ In order to ensure a good fit and proper placement of components, make sure your new cable assembly matches the one that came out of your iPhone.
- You may need to use a set of tweezers to fold the microphone portion of the cable so that the gold portion is inside the cable, and the silver unit is on top.

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