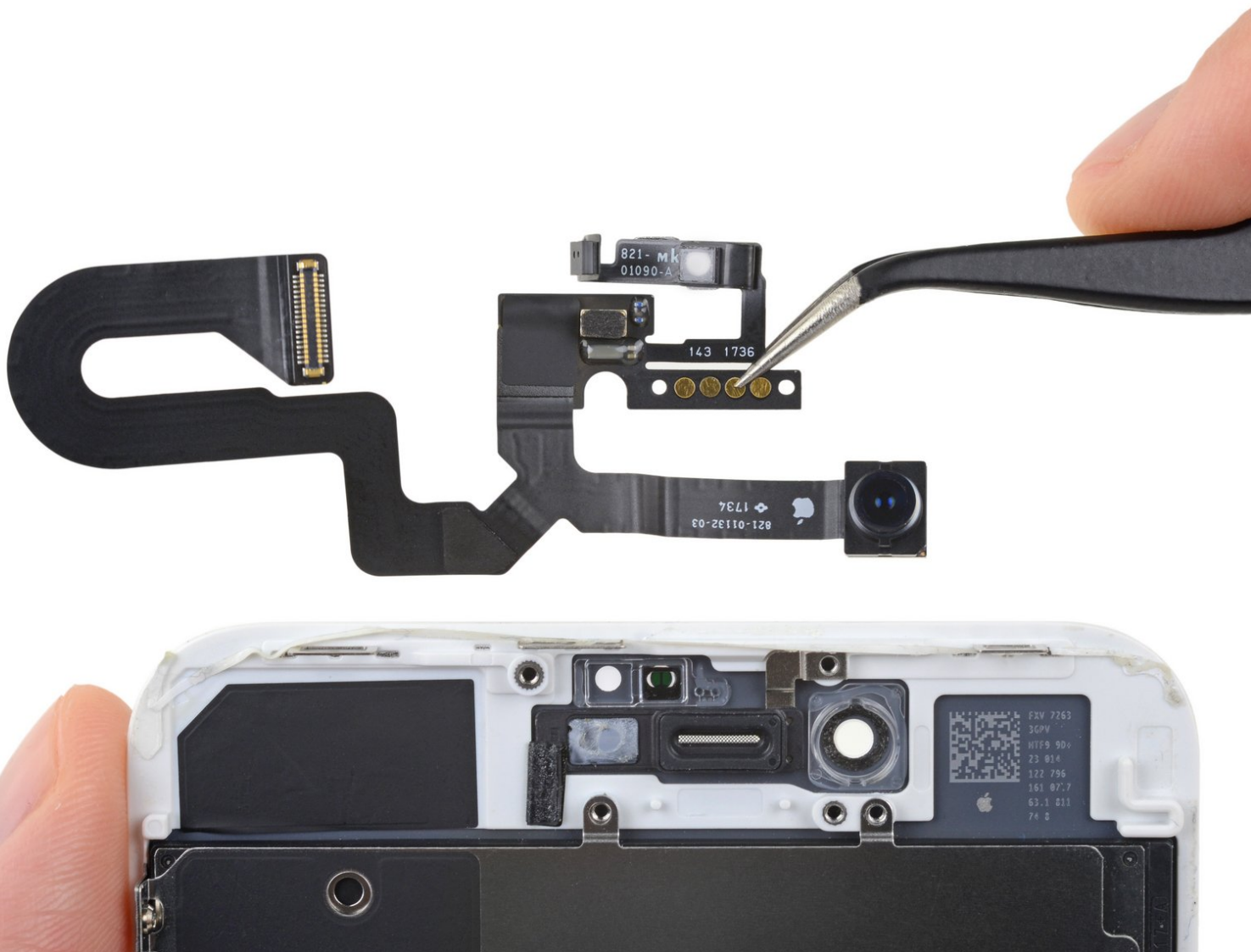




iPhone 8 Plus Front Camera and Sensor Cable Replacement

Replace the selfie camera and cable assembly, which also includes a microphone and proximity/ambient light sensors, on the iPhone 8 Plus.

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INTRODUCTION

Use this guide to replace a faulty front camera on your iPhone 8 Plus. This camera is part of a larger assembly containing a microphone and proximity/ambient light sensors, all of which are replaced as a single unit.



TOOLS:

- [P2 Pentalobe Screwdriver iPhone](#) (1)
- [Suction Handle](#) (1)
- [iFixit Opening Picks set of 6](#) (1)
- [Phillips #000 Screwdriver](#) (1)
- [Tri-point Y000 Screwdriver Bit](#) (1)
- [Tweezers](#) (1)
- [Spudger](#) (1)
- [iOpener](#) (1)
- [iFixit Opening Tools](#) (1)





PARTS:

- [iPhone 8 Plus Front Camera and Sensor Cable](#) (1)
- [iPhone 8 Plus Front Camera and Sensor Connector Bracket](#) (1)
- [iPhone 8 Plus Display Assembly Adhesive](#) (1)

Step 1 — Pentalobe Screws



-  Before you begin, 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 3.5 mm pentalobe screws from the bottom edge of the iPhone.
-  Opening the iPhone's display will compromise its waterproof seals. Have [replacement seals](#) ready before you proceed past this step, or take care to avoid liquid exposure if you reassemble your iPhone without replacing the seals.

Step 2 — Opening Procedure



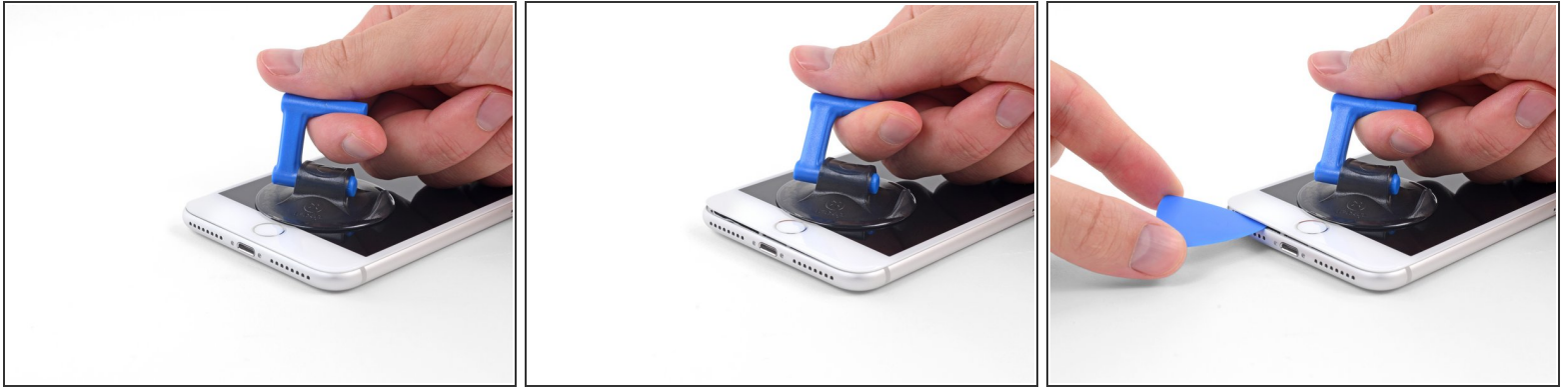
- ① Heating the lower edge of the iPhone will help soften the adhesive securing the display, making it easier to open.
- Use a hairdryer or [prepare an iOpener](#) and apply it to the lower edge of the iPhone for about 90 seconds in order to soften up the adhesive underneath.

Step 3



- Apply a suction cup to the lower half of the front panel, just above the home button.
- ① Be sure the suction cup does not overlap with the home button, as this will prevent a seal from forming between the suction cup and front glass.

Step 4



- Pull up on the suction cup with firm, constant pressure to create a slight gap between the front panel and rear case.
 - Insert an opening pick or other thin pry tool a few millimeters into the gap.
- i** The watertight adhesive holding the display in place is very strong; creating this initial gap takes a significant amount of force. If you're having a hard time opening a gap, apply more heat, and gently rock the screen up and down to weaken the adhesive until you create enough of a gap to insert your tool.

Step 5




- Slide your pick around the corner and up the left edge of the phone, moving towards the volume control buttons and silent switch, breaking up the adhesive holding the display in place.
- Stop near the top left corner of the display.

Step 6




- Re-insert your tool at the lower right corner of the iPhone, and slide it around the corner and up the right side of the phone to separate the adhesive.

 Don't insert the pick very far, or you may damage the display cables along this side of the iPhone. Insert it only a few millimeters, or about the width of the display bezel.

Step 7



- Gently pull up on the suction cup to lift up the bottom edge of the display.
-  **Do not raise the display more than 15°** or you'll risk straining or tearing the ribbon cables connecting the display.

Step 8



- Pull on the small nub on the suction cup to remove it from the front panel.

Step 9



- Slide an opening pick underneath the display along the top edge of the phone to loosen the last of the adhesive.

Step 10



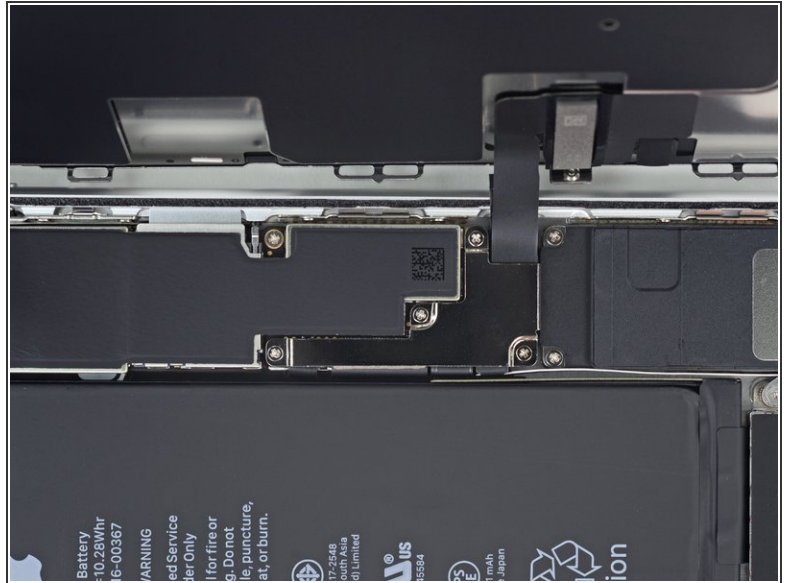
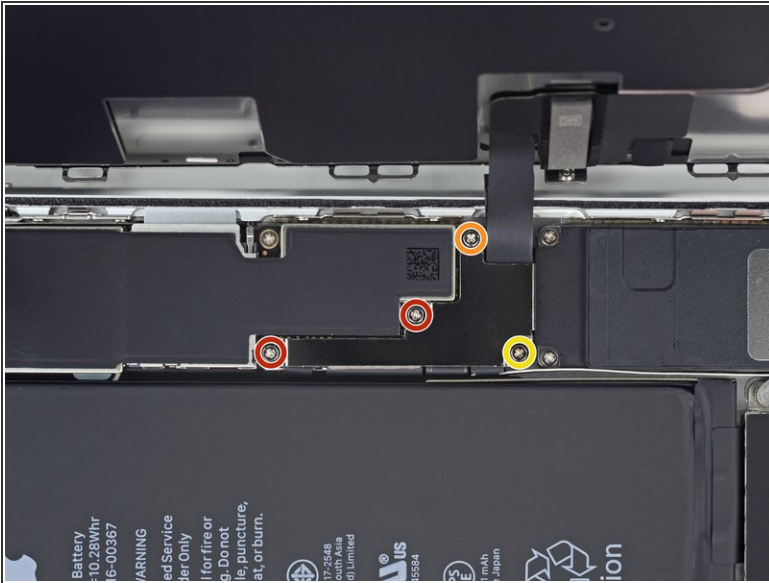
- Slide the display assembly slightly down (away from the top edge of the phone) to disengage the clips holding it to the rear case.

Step 11



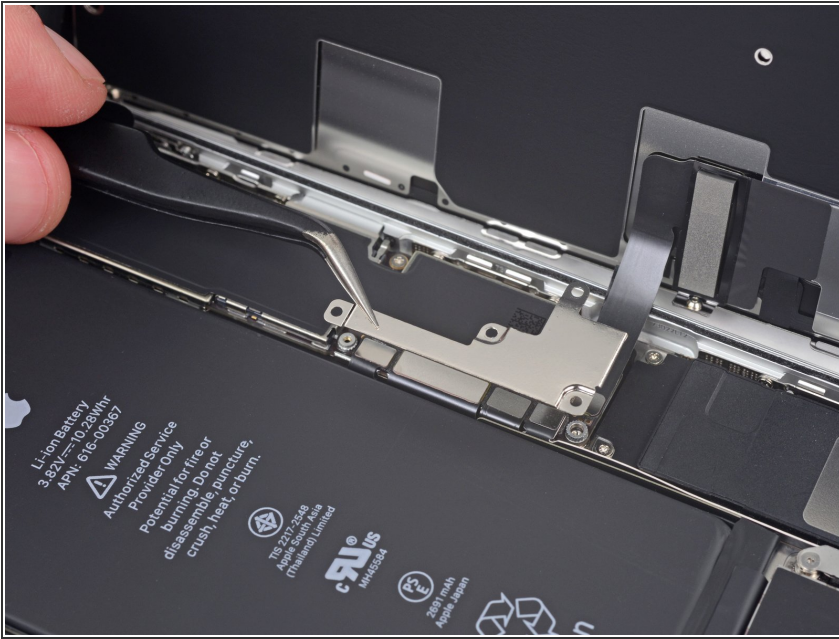
- Open the iPhone by swinging the display up from the left side, like the back cover of a book.
 - ⚠ Don't try to fully separate the display yet, as several fragile ribbon cables still connect it to the iPhone's logic board.
- Lean the display against something to keep it propped up while you're working on the phone.

Step 12 — Battery Disconnection



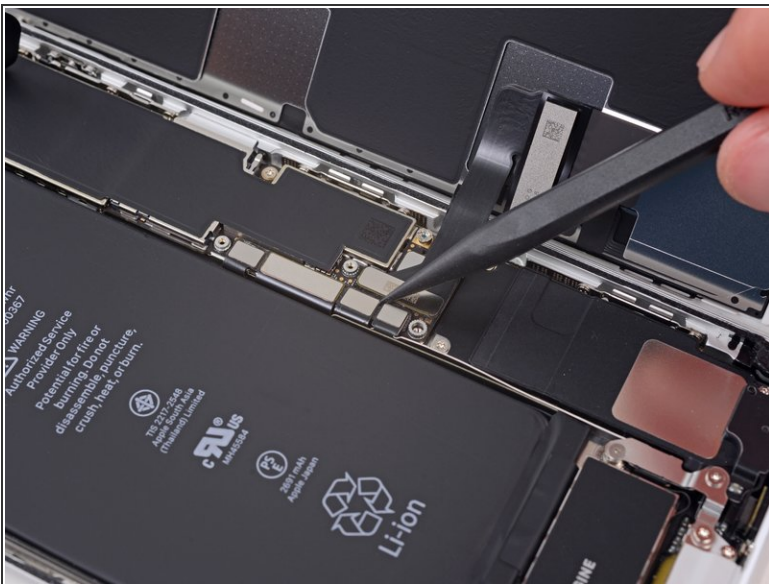
- Remove four Phillips (JIS) screws securing the lower display cable bracket to the logic board, of the following lengths:
 - Two 1.3 mm screws
 - One 1.4 mm screw
 - One 2.7 mm screw
- ☑ Throughout this guide, [keep careful track of your screws](#) so that each one goes back where it came from during reassembly. Installing a screw in the wrong place can cause permanent damage.

Step 13



- Remove the lower display cable bracket.

Step 14



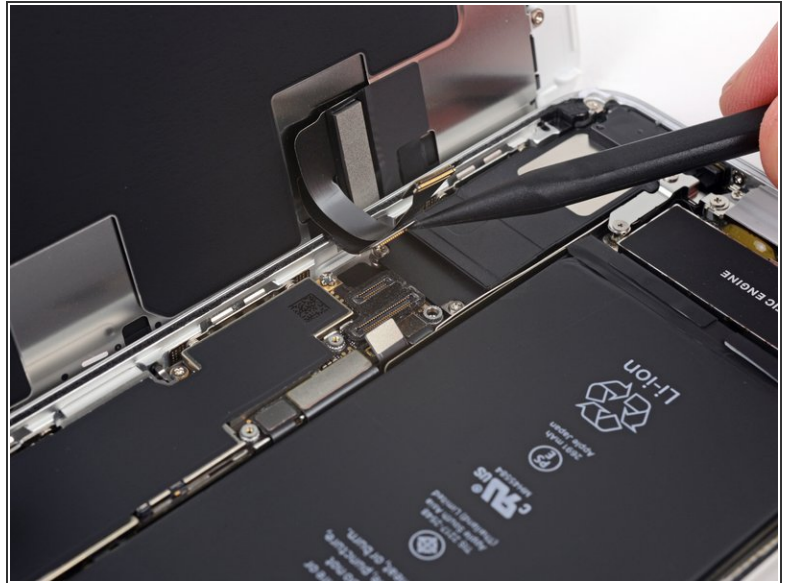
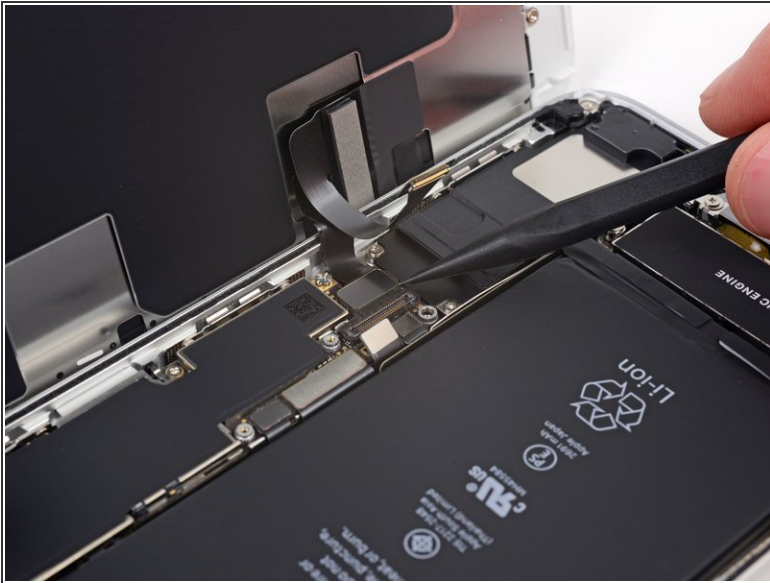
- Use the point of a spudger to pry the battery connector up from its socket on the logic board.
- Bend the connector cable up slightly to prevent it from accidentally making contact with the socket and providing power to the phone during your repair.

Step 15 — Display Assembly



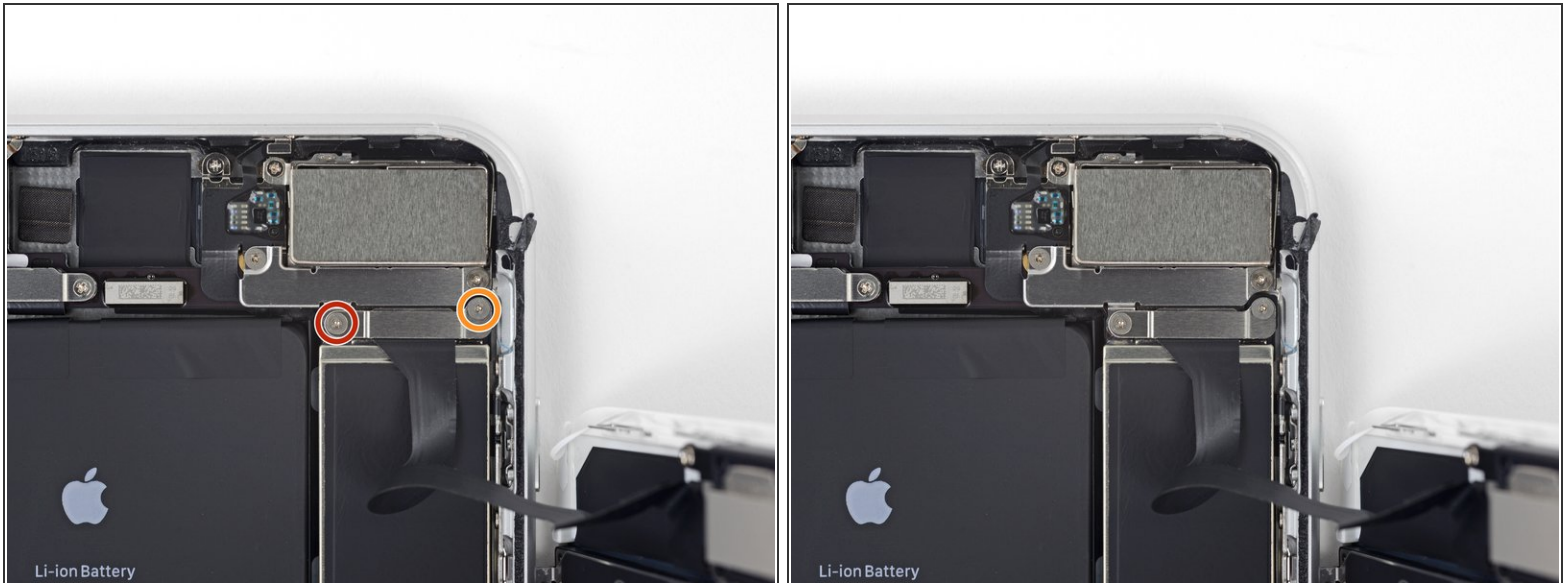
- Use the tip of a spudger or a fingernail to disconnect the large lower display connector by prying it straight up from its socket.
- ☑ To re-attach press connectors like this one, press down on one side until it clicks into place, then repeat on the other side. Do not press down on the middle. If the connector is even slightly misaligned, the connector can bend, causing permanent damage.

Step 16



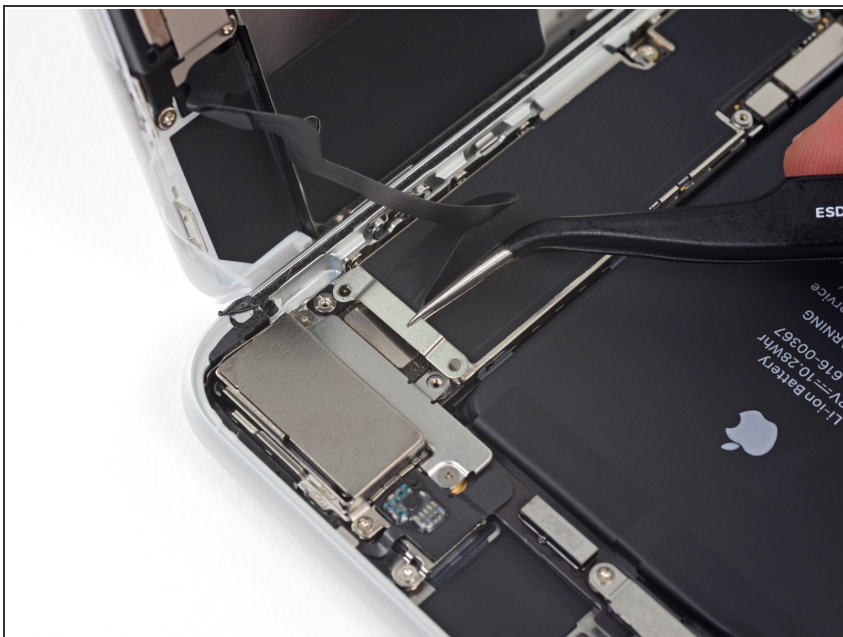
- Disconnect the second lower display cable connector, directly behind the one you disconnected in the previous step.

Step 17



- Remove the two tri-point Y000 screws securing the bracket over the front panel sensor assembly connector:
 - One 1.0 mm screw
 - One 1.2 mm screw

Step 18



- Remove the bracket covering the front panel sensor assembly connector.

Step 19



- Use the tip of a spudger or a fingernail to disconnect the front panel sensor assembly connector from its socket.

Step 20



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

Step 21 — Earpiece Speaker



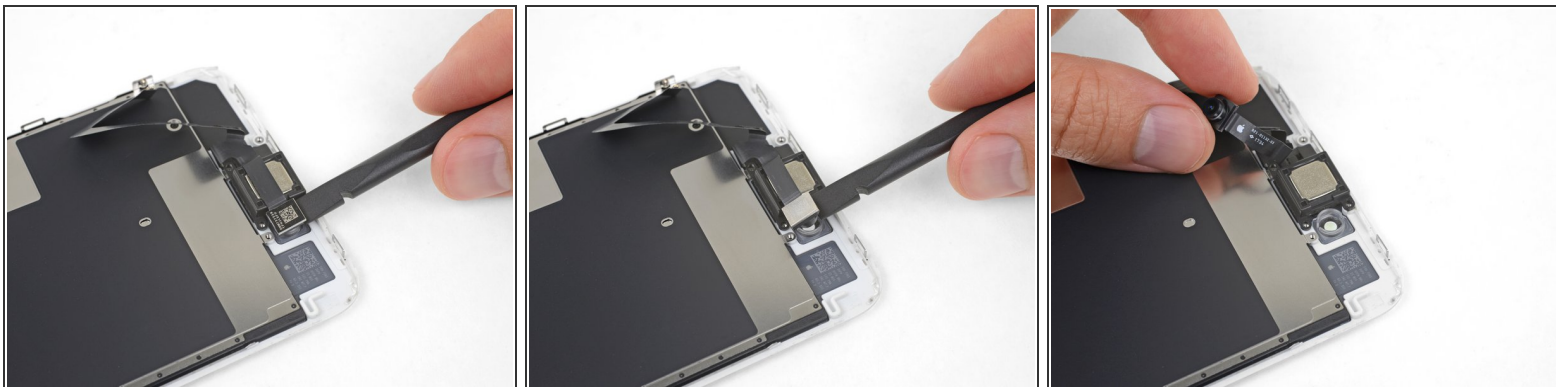
- Remove the five Phillips screws securing the earpiece speaker bracket:
 - Two 1.8 mm screws
 - One 2.3 mm screw
 - One 2.4 mm screw
 - One 2.8 mm screw

Step 22



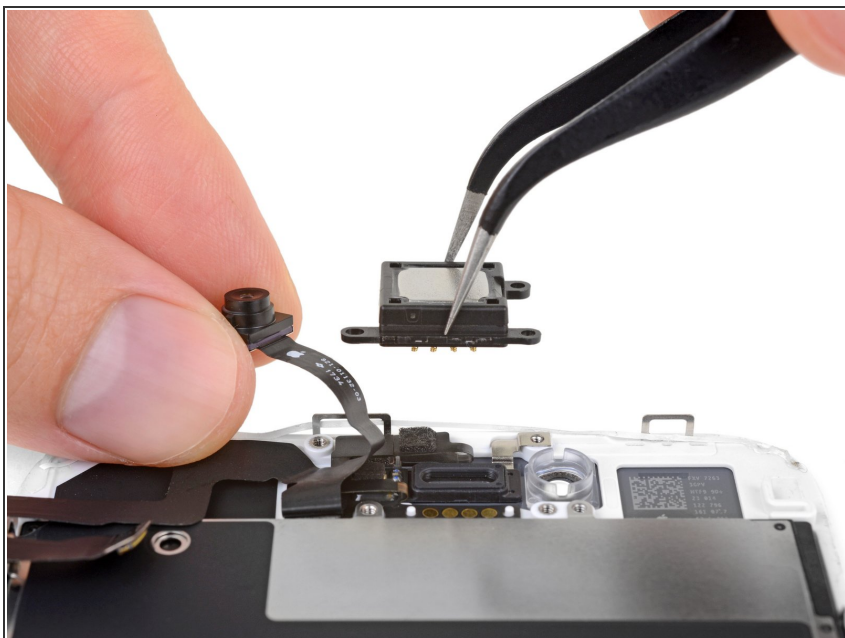
- Remove the earpiece speaker bracket.

Step 23



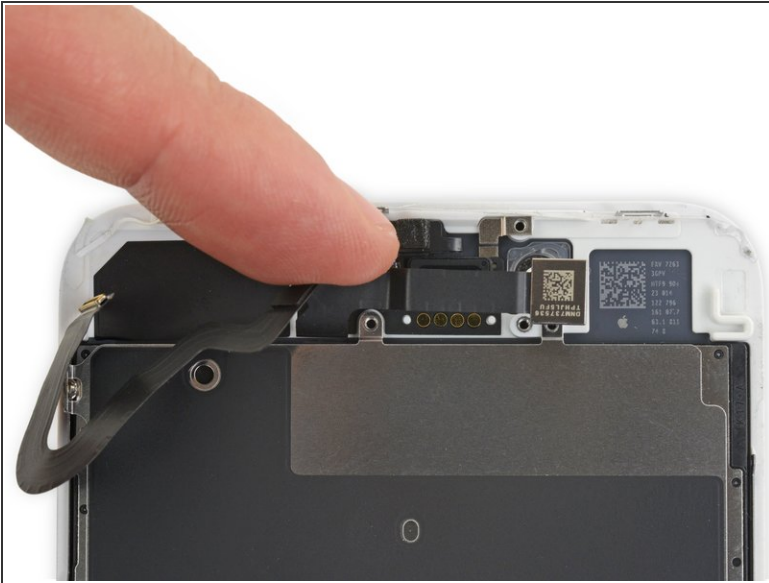
- Use the flat end of a spudger to lift the front-facing camera from its housing.
- Gently bend the camera ribbon cable to the side to clear the way to the earpiece speaker underneath.

Step 24



- Remove the earpiece speaker.

Step 25 — Front Camera and Sensor Cable



- Gently fold the camera and attached ribbon cable toward the bottom of the iPhone to allow access to the components underneath.

Step 26



- Use a hairdryer or heat gun or [prepare an iOpener](#) and apply it to the top front of the display for about a minute, in order to soften the adhesive securing the sensors.



The sensors in the following steps are fragile. To increase your chances of removing them without damage, repeatedly add more heat as needed. Alternatively, add a drop

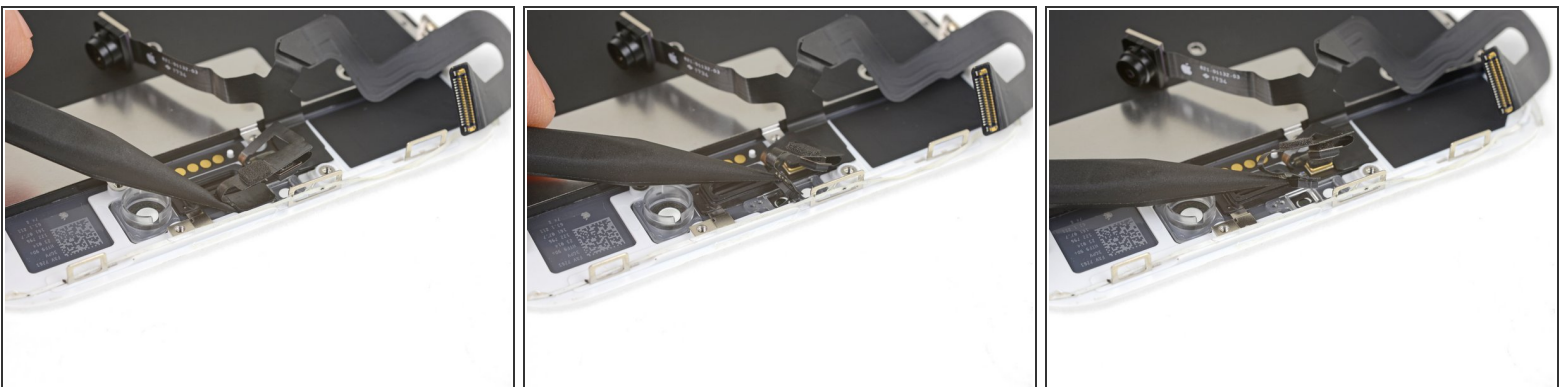
or two of isopropyl alcohol and let it penetrate under the sensors before you pry them up.

Step 27



- Slide a spudger under the ambient light sensor flex cable, and lift the sensor out of its housing.

Step 28



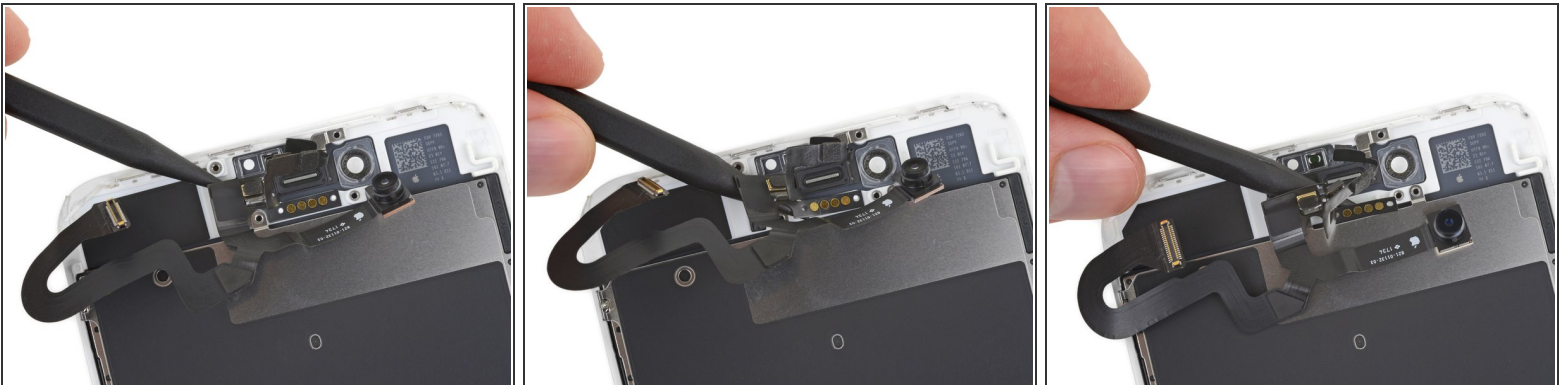
- Slide the tip of a spudger underneath the proximity sensor flex cable, and lift the sensor out of its housing.

Step 29



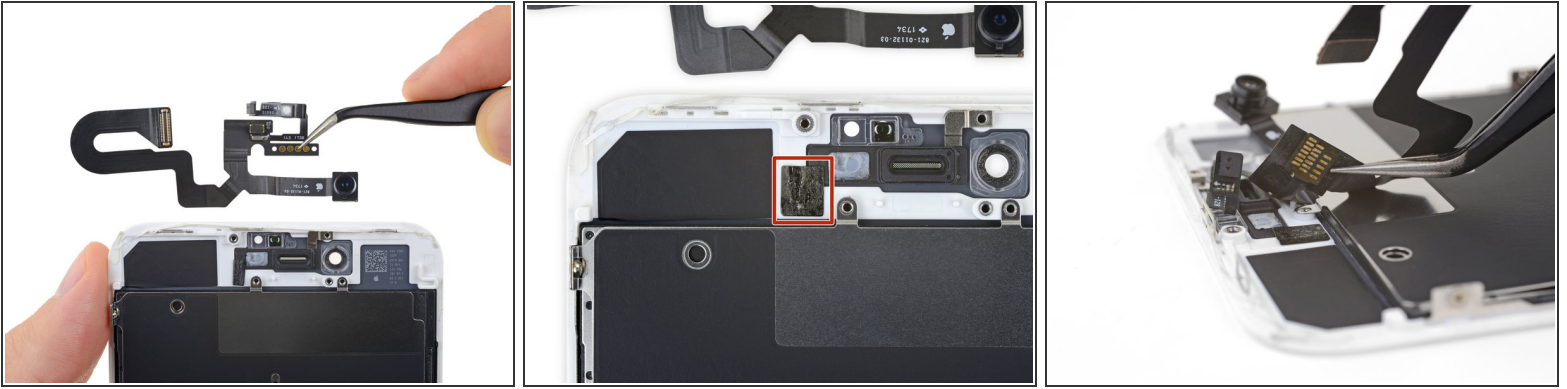
- Insert the sharp edge of an iFixit opening tool underneath the camera assembly's flex cable, on the opposite side from the front-facing camera.
- ⚠ Use an iOpener or hair dryer as needed to heat the top portion of the display and soften the adhesive securing the flex cable.
- Pry up to separate the edge of the flex cable from the back of the display.

Step 30



- Insert the point of a spudger underneath the same portion of the flex cable that you separated in the previous step.
- Continue separating the remainder of the flex cable, pushing the spudger underneath the row of circular gold earpiece speaker contacts.

Step 31



- Remove the front camera and sensor cable assembly.
- A piece of black double-sided insulating tape lies between the display and three rows of copper contacts on the back of the camera/sensor cable. It may remain stuck to the display, or it may come off with the cable.
- ☑ When reassembling, verify the tape is in place, or else cover the contacts on the back of the cable with an appropriate tape, such as Kapton tape.

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.

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

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.