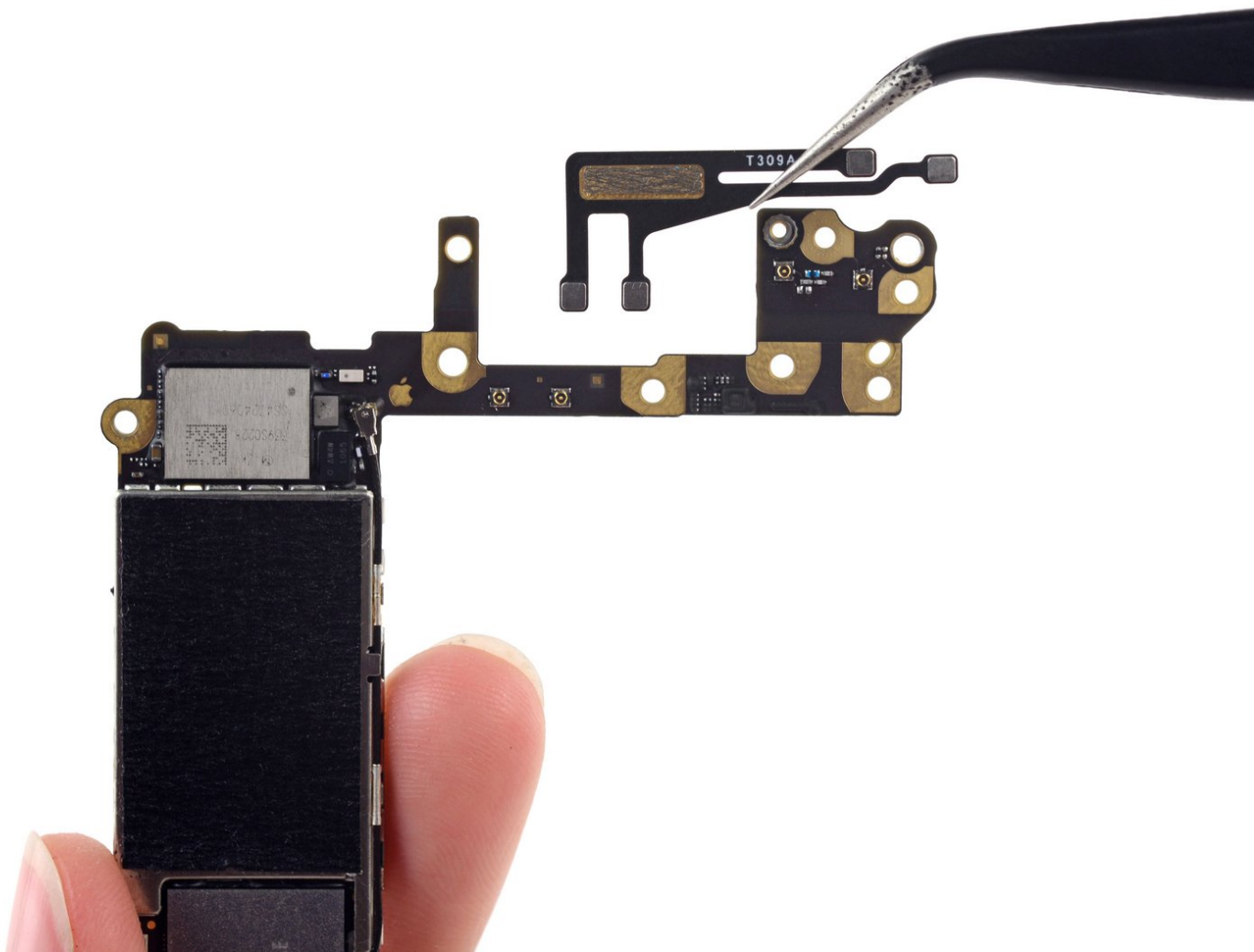




iPhone 6 Antenna Flex Cable Replacement

How to replace the antenna interconnect cable connected to the iPhone 6 logic board.

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INTRODUCTION

If your wi-fi signal is poor, you may need to replace the [wi-fi antenna](#), or the interconnect cable on the logic board. Follow this guide to replace the interconnect cable and restore wi-fi signal to your phone.



TOOLS:

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



PARTS:

- [iPhone 6 Logic Board Antenna Flex Cable](#) (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 3.6 mm-long Pentalobe screws next to the Lightning connector.

Step 2 — iSclack Opening Procedure



- i** The next three steps demonstrate using the iSclack, a great tool for safely opening the iPhone 6 that we recommend for anyone doing more than one repair. **If you aren't using the iSclack, skip down three steps for an alternate method.**
- If the plastic depth gauge is attached at the center of the iSclack, remove it now—it's not needed for larger phones like the iPhone 6.
 - Close the handle on the iSclack, opening the suction-cup jaws.

Step 3



- Place the bottom of your iPhone in between the suction cups.
 - Position the iSlack's upper suction cup against the display, just above (but not covering) the home button.
- Open the handles to close the jaws of the iSlack. Center the suction cups and press them firmly onto the top and bottom of the iPhone.
- ⓘ If your display or back glass is badly cracked, [covering it with a layer of clear packing tape](#) may help the suction cups adhere. The iSlack also includes two pieces of tape for this purpose.

Step 4



- 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 display cables.
- Peel the two suction cups off your iPhone.
- **Skip the next three steps and continue on to Step 8.**

Step 5 — Manual Opening Procedure



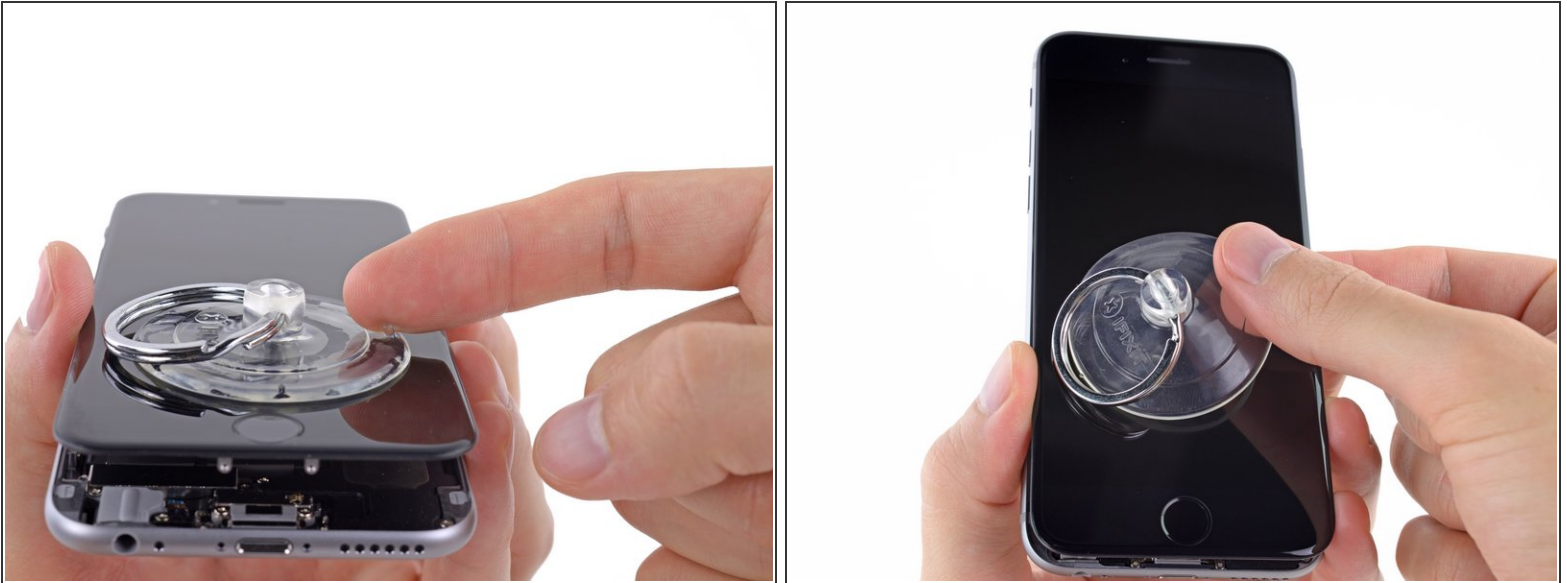
- If you don't have an iSlack, use a single suction cup to lift the front panel:
 - Press a suction cup onto the screen, just above the home button.
- ⓘ Be sure the cup is pressed securely onto the screen to get a tight seal.
- ⓘ If your display is badly cracked, [covering it with a layer of clear packing 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 6



- While holding the iPhone down with one hand, pull up on the suction cup to slightly separate the front panel assembly from the rear case.
- ⚠ Take your time and apply firm, constant force. The display assembly is a much tighter fit than most devices.
- Using a plastic opening tool, begin to gently pry the rear case down, away from the display assembly, while continuing to pull up with the suction cup.
- ⓘ There are several clips holding the front panel assembly to the rear case, so you may need to use a combination of the suction cup and plastic opening tool to free the front panel assembly.

Step 7



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

Step 8 — Opening up the phone



- Open the iPhone by swinging the home button end of the front panel assembly away from the rear case, using the top of the phone as a hinge.
 - ❗ Several clips along the top edge of the front panel form a partial hinge.
 - ☑ During reassembly, align the clips just below the top edge of the rear case. Then, slide the front panel upward until its top edge is flush with that of the rear case.

Step 9



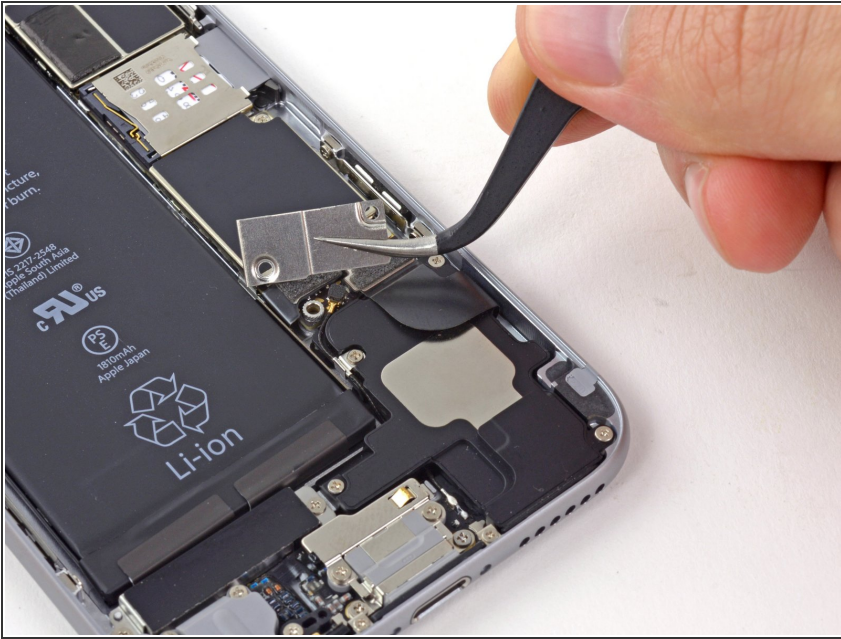
- Open the display to about a 90° angle, and lean it against something to keep it propped up while you're working on the phone.
 - ❗ In a pinch, an unopened canned beverage works well for this.
- Add a rubber band to keep the display securely in place while you work. This prevents undue strain on the display cables.

Step 10 — Removing the battery connector bracket screws



- Remove the following Phillips screws from the battery connector bracket:
 - One 2.2 mm screw
 - One 3.2 mm screw
- ❗ During your repair, [keep track of each screw](#) and make sure it goes back exactly where it came from to avoid damaging your phone.

Step 11



- Remove the metal battery connector bracket from the iPhone.

Step 12 — Disconnecting the battery connector



- Use a plastic opening tool to gently pry the battery connector up from its socket on the logic board.
- ⚠ Take care to only pry up on the battery 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 13 — Removing the front panel assembly cable bracket screws

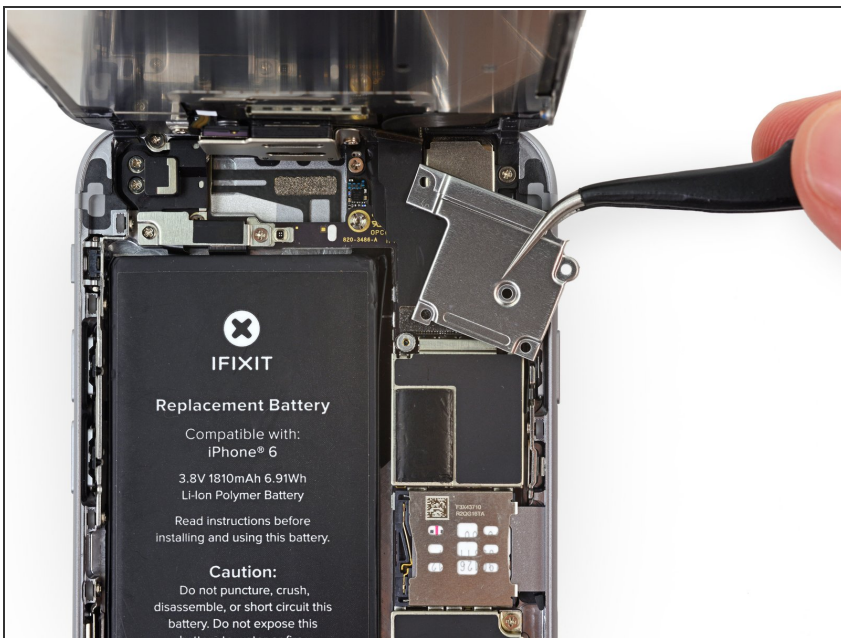


- Remove the following five Phillips screws securing the front panel assembly cable bracket:

- Three 1.2 mm screws
- One 1.7 mm screw
- One 3.1 mm screw

⚠ Incorrect placement of these screws during reassembly will cause permanent damage to your iPhone's logic board.

Step 14



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

Step 15



⚠ In the next four steps, take care to pry up **only** on the cable connectors, and not on their sockets on the logic board.

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

Step 16



- Use a spudger or a fingernail to disconnect the home button cable connector.

Step 17



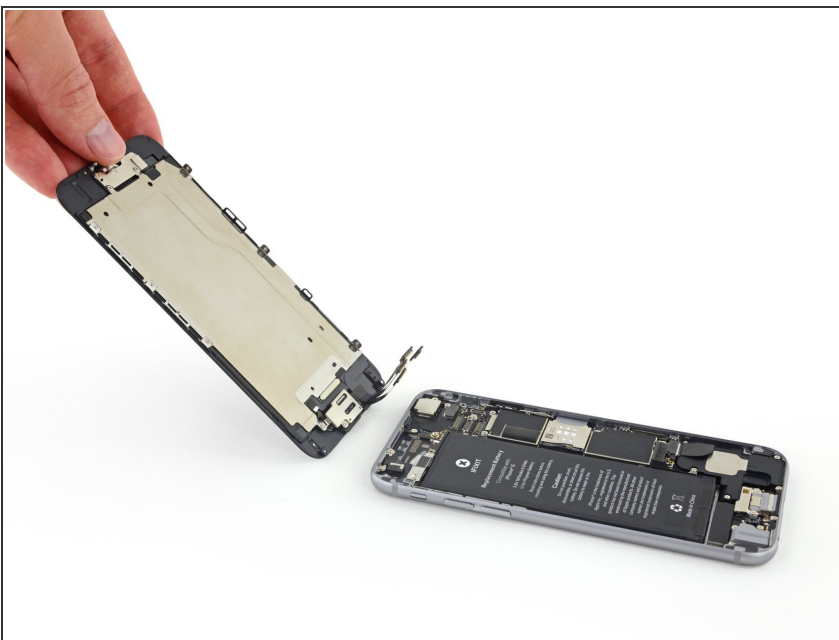
- ⚠ Make sure the battery is disconnected before you disconnect or reconnect the cable in this step.
- Use a spudger or a fingernail to disconnect the display data cable connector.
- 🔧 When reassembling your phone, the display data cable may pop off its connector. This can result in white lines or a 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 connector](#).

Step 18



- Use the flat end of a spudger to disconnect the digitizer cable connector.
- ✦ 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 19 — Separating front panel assembly and rear case



- Remove the front panel assembly from the rear case.

Step 20 — 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.
- i** This may require a significant amount of force.

Step 21



- 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 22 — Logic Board



- Use the flat end of a spudger to disconnect the Lightning connector assembly cable and fold it out of the way of the speaker.

Step 23



- Use the point of a spudger to lift the antenna cable connector up off of its socket on the logic board.

Step 24



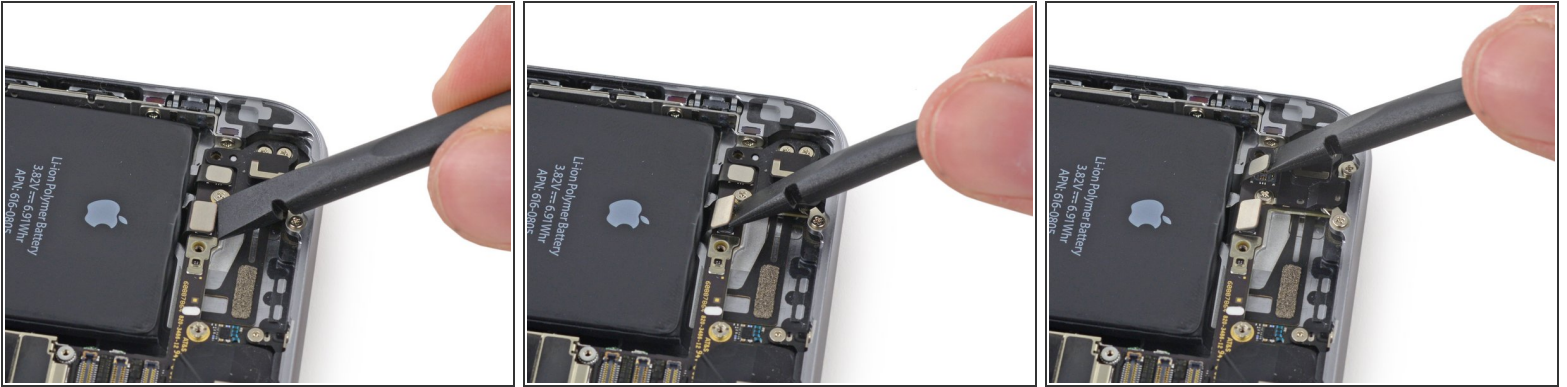
- Remove the following Phillips screws from the upper cable bracket:
 - One 2.9 mm screw
 - One 2.2 mm screw

Step 25



- Remove the upper cable bracket from the iPhone.

Step 26



 When disconnecting the following connectors, only pry up on the connector, **not the socket** on the logic board or you risk permanent damage.

- Use the flat end of a spudger to lift the power button and flash assembly cable connector up off of its socket.
- Lift the volume control cable connector up out of its socket on the logic board.

Step 27



- Remove the following four Phillips screws from the Wi-Fi antenna:
 - One 1.5 mm screw
 - One 1.4 mm screw
 - Two 2.1 mm screws

Step 28



- Remove the Wi-Fi antenna from the iPhone.
- ⓘ Be careful not to touch any metal to metal contact points with your bare fingers—use tweezers or gloves. Finger oils may disrupt conductivity. If you do touch any of these components, clean them with a degreaser like windex or isopropyl alcohol before reassembly.

Step 29



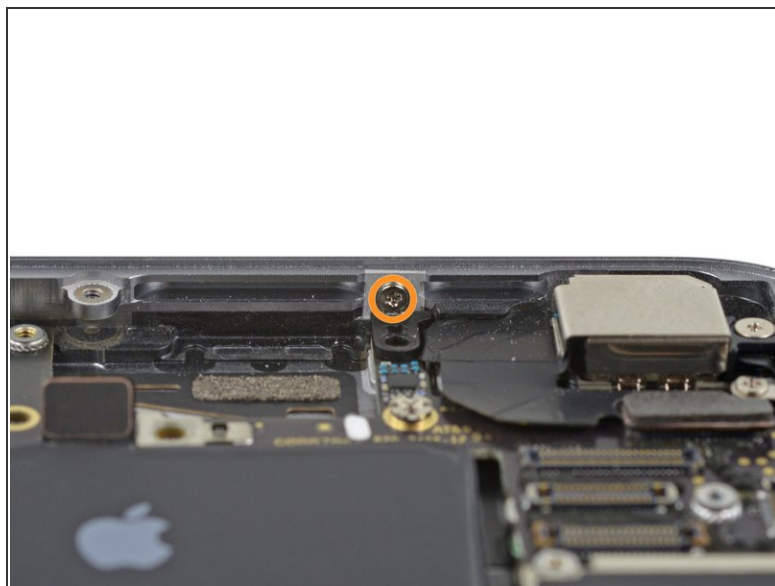
- Remove the two 1.6 mm Phillips screws from the grounding bracket.

Step 30



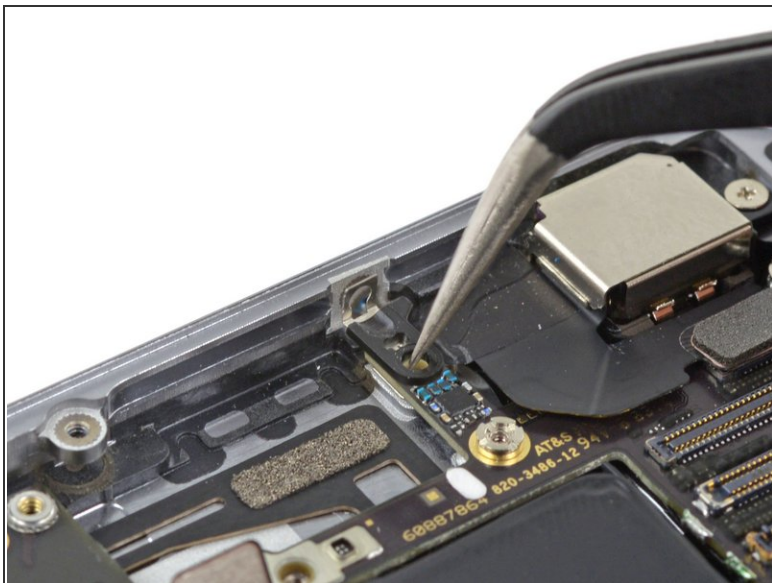
- Remove the grounding bracket from the iPhone.

Step 31



- Remove the following Phillips screws securing the angled logic board bracket.
 - One 2.6 mm screw
 - One 1.3 mm screw, located horizontally in the upper sidewall of the iPhone.

Step 32



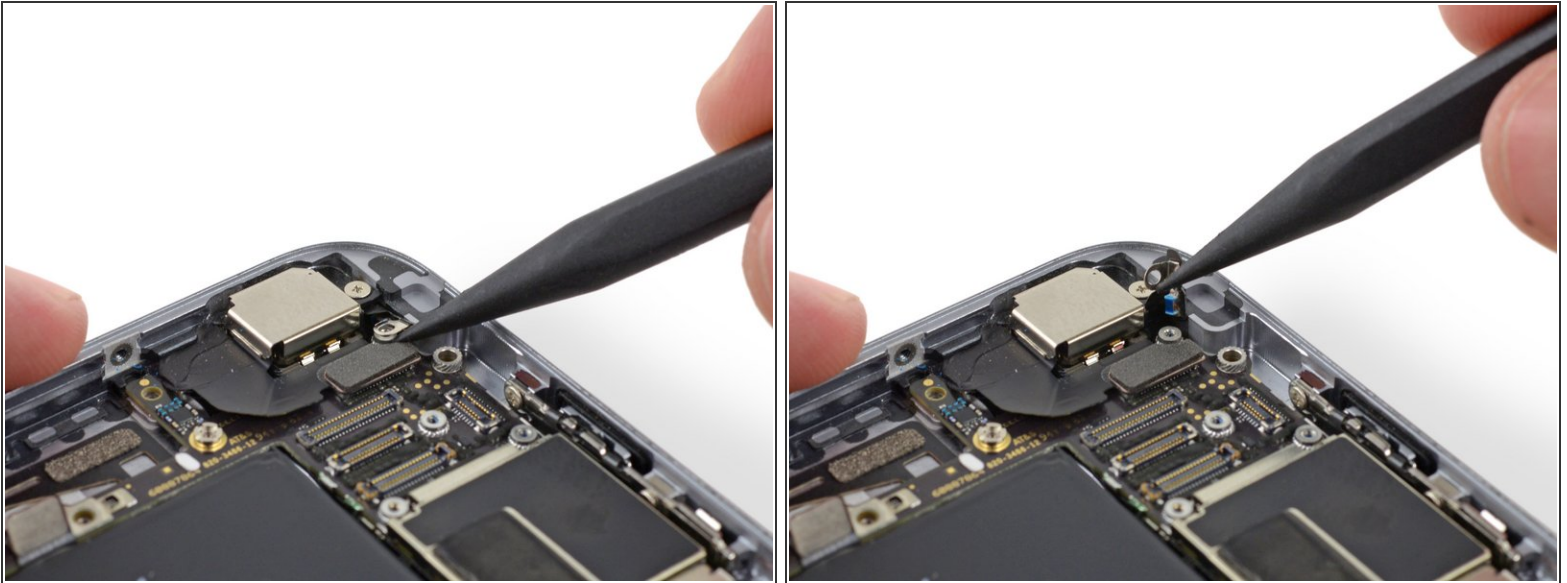
- Remove the angled logic board bracket.

Step 33



- Remove the single 1.2 mm Phillips screw securing the antenna interconnect cable to the logic board.

Step 34



- Use the point of a spudger to fold the antenna interconnect cable up out of the way of the logic board.

Step 35



- Use the flat end of a spudger to lift the camera cable connector straight up out of its socket on the logic board.
 - ⚠ Be sure to only pry on the connector **not** the socket itself or you can cause permanent damage to the logic board.
- Fold the camera cable up out of the way of the logic board.

Step 36



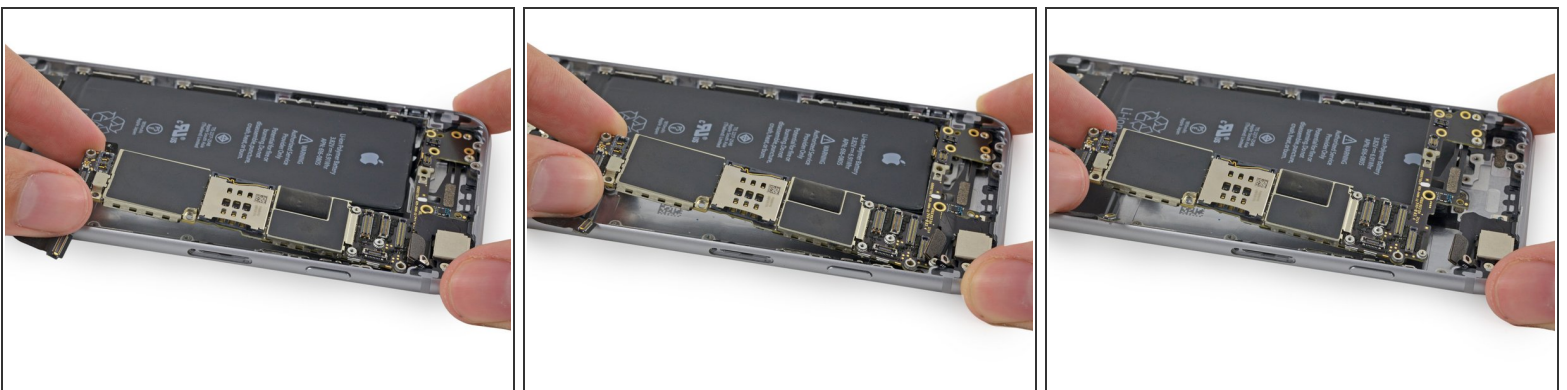
- Remove the following screws securing the logic board to the rear case:
 - Two 1.9 mm Phillips screws
 - One 2.3 mm standoff screw
- Standoff screws are best removed using an [iPhone Standoff Screwdriver Bit](#) and [driver handle](#).
- ⚠ In a pinch, a small flathead screwdriver will do the job—but use extra caution to ensure it doesn't slip and damage surrounding components.

Step 37



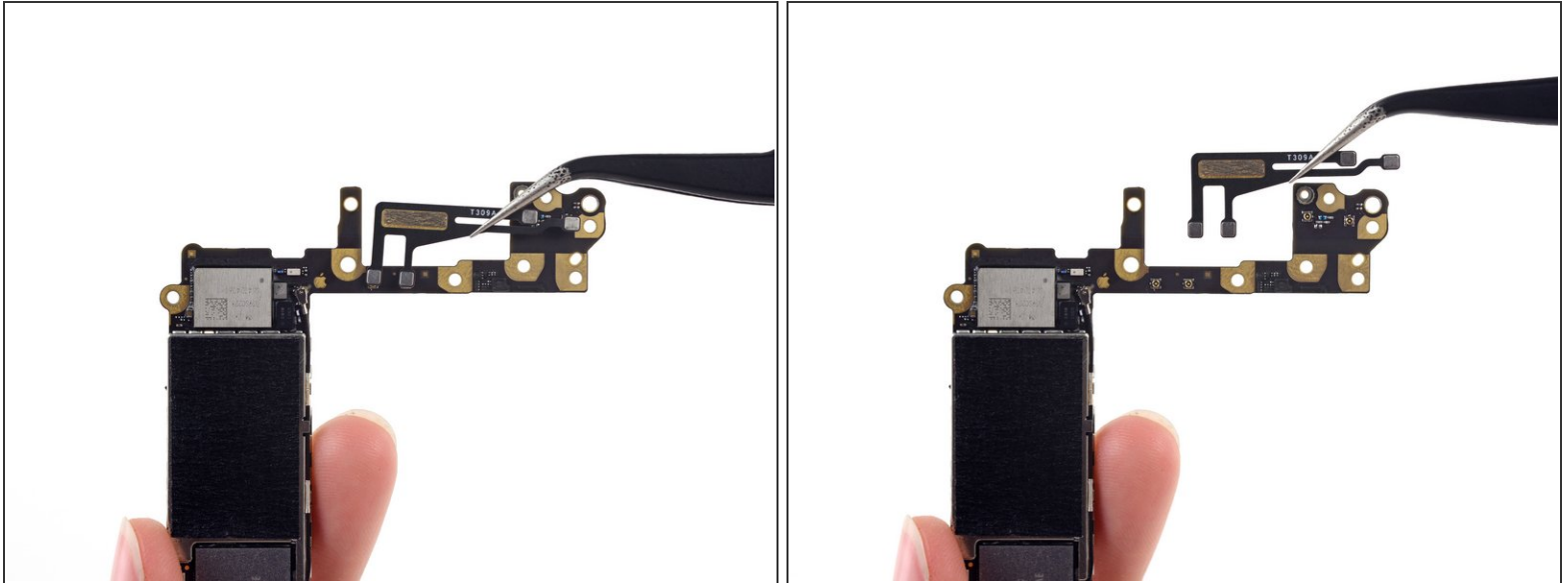
- Use the flat end of a spudger to lift the battery connector end of the logic board up slightly, just enough to grab with your fingers.
- ⓘ Insert the spudger near the metal shields below the SIM card tray to avoid damaging any chips or sockets.

Step 38



- Lift the battery connector end of the logic board and pull it up and out of the rear case.
- ⚠ Be careful not to snag the logic board on any cables.

Step 39 — Antenna Flex Cable



- Flip the logic board over to expose the antenna on the back side.
- Disconnect the four coaxial connectors from the logic board and remove the antenna cable from the logic board.
- ⓘ Be careful not to touch any metal to metal contact points with your bare fingers—use tweezers or gloves. Finger oils may disrupt conductivity. If you do touch any of these components, clean them with a degreaser like windex or isopropyl alcohol before reassembly.

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.