

PDF Source: <https://www.ifixit.com/Guide/iPhone+6+Lightning+Connector+Assembly+Replacement/29915>

iPhone 6 Lightning Connector Assembly Replacement

Written By: Sam Lionheart (and 10 other contributors)



Difficulty

Steps

37

Time Required

1 - 2 hours

Sections

5



Flags

0










Introduction

Use this guide to replace the Lightning connector assembly, which also includes the headphone jack and microphone.






You can also use this guide for reference when replacing the following parts:

- [Battery Connector Bracket](#)
- [Front Panel Assembly Cable Bracket](#)
- [Lightning Connector Bracket](#)
- [Microphone Brace](#)

Tools


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

Parts

- [iPhone 6 Lightning Connector Headphone Flex Cable Replacement](#)
-  [iPhone 6 Lightning Connector Bracket](#)
-  [iPhone 6 Front Panel Assembly Cable Bracket](#)
-  [iPhone 6 Battery Connector Bracket](#)
-  [iPhone 6 Microphone Brace](#)
-  [iPhone 6 Lightning Connector Cable Conductive Adhesive](#)

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 Pentalobe screws next to the Lightning connector.

 13 comments

Step 2 iSlack Opening Procedure

-  The next three steps demonstrate using the iSlack, 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 iSlack, 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.

 [2 comments](#)

Step 3



- Place the bottom of your iPhone in between the suction cups.
- Position the iSclack's upper suction cup against the display, just above (but not covering) 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.

 [Add a comment](#)

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 iSlack 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.

 4 comments

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.

 5 comments

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.

- i 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.

 8 comments

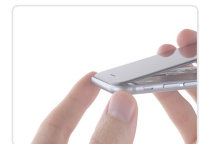
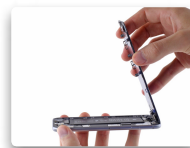
Step 7



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

 Add a comment

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.
- i 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.

 7 comments

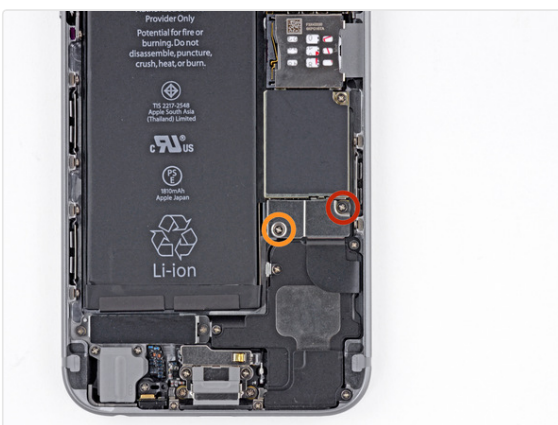
Step 9



- 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.

 7 comments

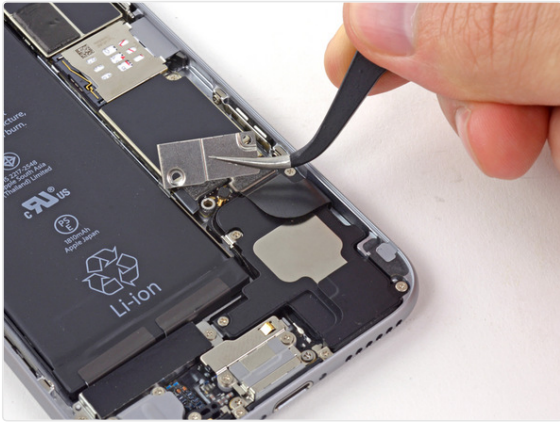
Step 10 Removing the battery connector bracket screws



- Remove the following Phillips screws from the battery connector bracket:
 - One 2.2 mm screw
 - One 3.2 mm screw

 35 comments

Step 11



- Remove the metal battery connector bracket from the iPhone.

[3 comments](#)

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.

[22 comments](#)

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

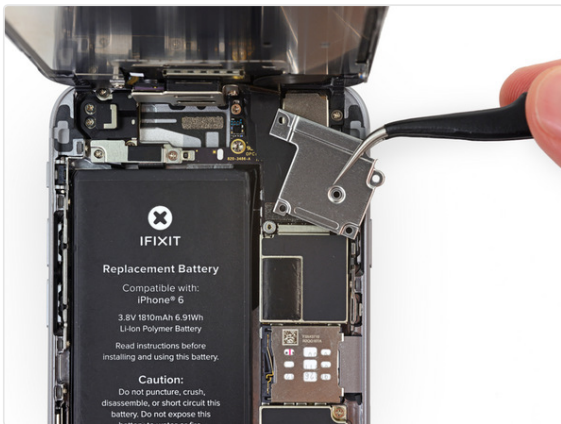


- One 3.1 mm screw

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

💬 45 comments

Step 14



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

💬 Add a comment

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.

💬 16 comments

Step 16



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

💬 One comment

Step 17



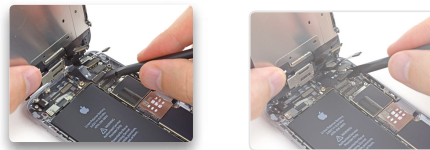
⚠ Make sure the battery is disconnected before you disconnect or reconnect the cable in this step.

- 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](#).

10 comments

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.

15 comments

Step 19 Separating front panel assembly and rear case



- Remove the front panel assembly from the rear case.

Step 20 Speaker



- 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 21



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

Step 22

- Remove the following four Phillips screws securing the speaker:



● Two 2.9 mm screws

● Two 2.3 mm screws

[One comment](#)

Step 23



- Use the point of a spudger to push the antenna interconnect cable clip off of the speaker housing.

[4 comments](#)

Step 24



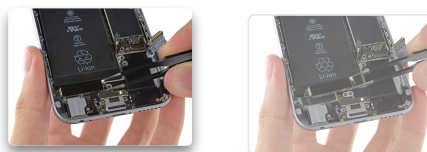
- Use the tip of a spudger to pry the speaker up and out of the rear case.
- Remove the speaker from the iPhone.

Step 25 Lightning Connector Assembly



- Remove the two 1.6 mm Phillips #00 screws securing the vibrator to the rear case.

Step 26



- Remove the vibrator from the iPhone.

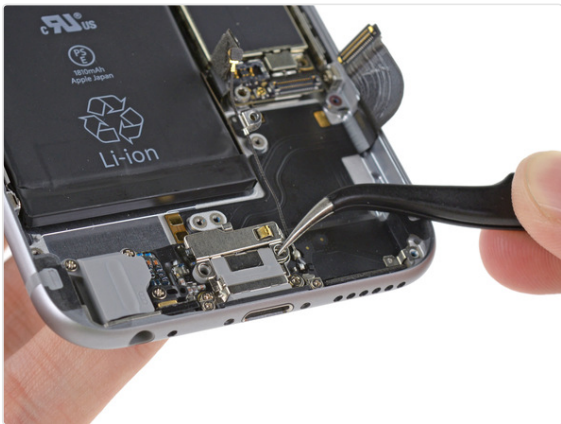
Step 27

- Remove the two 3.1 mm Phillips #00 screws securing the Lightning port retaining bracket.



[2 comments](#)

Step 28



- Remove the Lightning port retaining bracket.

[2 comments](#)

Step 29



- Remove the single 3.6 mm Phillips #00 shoulder screw from the microphone brace.

Step 30



- Remove the microphone brace from the iPhone.

Step 31



- Remove the six remaining Phillips #00 screws from the Lightning connector assembly:
 - Two 3.1 mm shoulder screws
 - Two 1.7 mm screws
 - Two 1.5 mm screws

Step 32

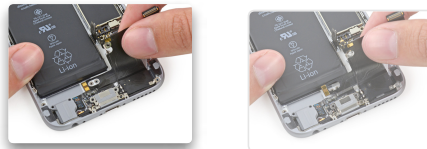




- Use the flat end of a spudger to begin peeling the Lightning connector assembly up from the rear case.

 3 comments

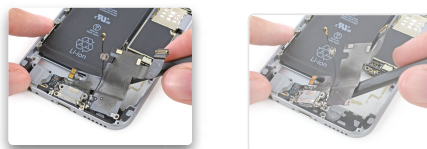
Step 33



- Carefully pull the Lightning connector assembly up slightly to free it from the vibrator and speaker screw posts.

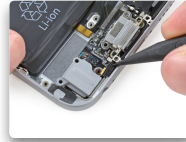
 Add a comment

Step 34



- Use the flat end of a spudger to lift under the Lightning connector portion of the assembly to free more adhesive.

Step 35



- Use the point of a spudger to push the microphone portion of the Lightning connector assembly out of its recess in the rear case.

 [8 comments](#)

Step 36

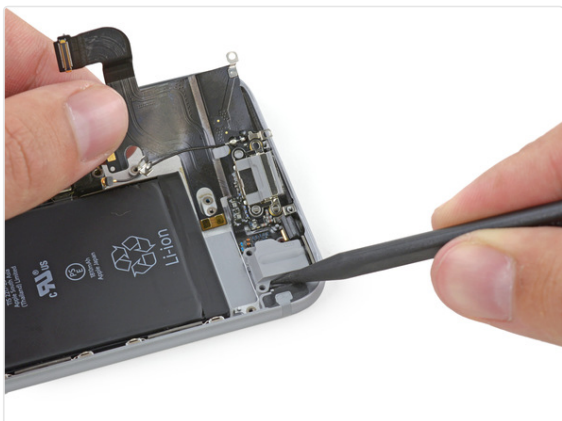


- Gently run the point of a spudger under the assembly between the Lightning connector and the headphone jack to free it from the last of the adhesive.

 [Add a comment](#)

Step 37





- Use the tip of a spudger to help guide the headphone jack out of its recess in the rear case.
- Remove the Lightning connector assembly from the iPhone.
- ☑ Before installing or replacing the Lightning connector assembly:
 - Use a plastic tool to scour any bits of adhesive residue from the rear case behind the cable.
 - Carefully compare your replacement part to your original cable and make sure they match. Your replacement Lightning connector assembly may be missing certain components that need to be transferred from the original.
 - Components that commonly need to be transferred include the headphone jack gasket, rubber microphone cover, and antenna interconnect clip.

 9 comments



CONCLUSION

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

✓ Give the author +30 points!

470 other people completed this guide.

Attached Documents



iPhone-6-Lightning-Connector-Assembly-Re.pdf

View

PDF 10.22 KB

Author

with 10 other contributors

**Sam Lionheart**

Member since: 10/18/2012

299,545 Reputation

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It isn't necessary to remove the screen as long as you can support it properly while doing the rest of the work. In my experience, unnecessarily removing screens can do more harm than good and causes extra work for yourself

[phonesurgeon](#) - 01/16/2016

I was trying to find exactly this message. Thanks!

[Emilio Zaidman](#) - 06/07/2017

I agree with this comment. If you can support it, don't disconnect the screen connectors. I took the screen off and had two vertical white lines on my display when I was finished. I had to re-seat the connector multiple times to get the problem to go away. It's working great now.

[deshave](#) - 10/05/2017



Just completed this in about an hour. Follow the steps slowly and closely, then power cycle your device at the end. BAM you're done before you know!

[djhergs](#) - 01/26/2016



I changed the charge port on an iPhone 6. Apple diagnose the charge port not working to the owner of this iPhone. Now that its changed the phone still wont turn on. It doesnt even show the battery icon that it needs to be charged. What is a most likely scenario for this? Is it a bad LCD? A bad Battery? Someone help me.

Jose Lopez - 02/01/2016

im having the same problem also replaced battery and charging port, phone does nothing

ocvilla - 09/28/2016



If your microphone isn't working , check to see that the double stick tape is not blocking its input. Obviously the microphone needs airflow to get it to respond to anything, and as it came from ifixit, the adhesive tape was not perforated, so no "signal" was reaching the microphone. Consequently nobody could hear me on the phone. Since the iPhone already has the microphone brace, I just removed the double stick tape that was included on the back of the new microphone, made sure the microphone was centered on its rubber housing and post, then pressed the brace tightly against the microphone with tweezers while I screwed it down. I had called myself using google voice to aid in troubleshooting the microphone, and that horrible echo feedback (aka alien-whale-sex noise) you get when you put the phone up the computer's speakers signalled that the microphone was now picking up its surroundings. Hooray! Despite my minor difficulties, I'm still blown away with the stuff you can get from Ifixit. Thanks! DW

dave white - 02/16/2016



After connecting all worked except microphone during normal phone mode. Turns out both Siri and speaker phone mode use different microphone. Suspect it may have been the adhesive on the small piece connected tot he mic. Will tear down again and take a closer look at the microphone setup.

adamcfrench - 03/23/2016

Any luck there Adam?

Ortega - 11/17/2016



Finished the repair but now my speaker isn't working properly. The volume works up to about 50% (but sounds dimmer than usual). By about 60% the speaker cuts out and stops working. Any thoughts what this could be? I took it apart again and reseated the speaker but no luck.

brettking88 - 04/10/2016



So question...my phone recently acquired some water damage. It won't hold a charge, the charge icon is missing on the main screen and there is a little bit of damage on the screen in that it appears like slightly smudged lines under the screen. What is the best recommendation for fixing all of these issues. I had thought at first just replace the battery but now it appears as though the best option is to replace the lightening port. I guess I'm just looking for some advice/confirmation before I begin!

Jessica Harville - 06/21/2016



Just finished and glad to see my Phone working flawlessly again. Thanks for the awesome guide. One thing not in the instructions - Be sure to check the old assembly for the small black rectangular bracket/setting for the mic and the super thin black gasket looking piece that goes around the headphone jack before discarding the old assembly. If you don't, your mic will likely be loose and not sit in the recess properly when you re-assemble.

Brian C - 06/30/2016
