

# iPhone 6 Front Panel Assembly Replacement

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| PEATURED GUIDE  |                     |
|-----------------|---------------------|
| Difficulty      | - Moderate          |
| ∃ Steps         | 27                  |
| C Time Required | 20 minutes - 1 hour |
| Sections        | 5 📚                 |
| Flags           | 1 😣                 |

# Introduction

Use this guide to replace the screen on your iPhone 6. This guide will show you how to remove the old display and the home button. If you do not transfer your phone's original home button to the new display, you will lose Touch ID functionality.

If your replacement part does not have a speaker or front-facing camera sensor cable you should follow the complete transfer guide.

You can also use this guide to replace the front panel assembly cable bracket.

### Tools

- 📜 Spudger
- P2 Pentalobe Screwdriver iPhone
- iSclack
- Suction Handle
- **Tweezers**
- Phillips #000 Screwdriver

# Video Overview



Step 1 Pentalobe Screws

Before disassembling your iPhone, discharge the battery below 25%. A charged lithium-ion battery can

#### **Parts**

iPhone 6 Replacement Screen Assembly



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** Taping Over The Display





- If your display glass is cracked, keep further breakage contained and prevent bodily harm during your repair by taping over the glass.
- Lay overlapping strips of clear packing tape over the iPhone's display until the whole face is covered.
  - (i) 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.
- If the broken glass makes it difficult to get a suction cup to stick in the next few steps, try folding a strong piece of tape (such as duct tape) into a handle and lifting the display with that instead.

# Step 3 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 suctioncup jaws.

#### ♀ 2 comments





- 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.





- 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.

#### $\mathcal{O}$ 4 comments

# Step 6 Manual Opening Procedure



- If you don't have an iSclack, use a single suction cup to lift the front panel:
  - Press a suction cup onto the screen, just above the home button.
  - (i) Be sure the cup is pressed securely onto the screen to get a tight seal.

♀ 5 comments

### Step 7

• 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 8





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

 $\bigcirc$  Add a comment

### Step 9 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





- 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.
  - (i) 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 11** 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

 $\bigcirc$  35 comments

### Step 12



• Remove the metal battery connector bracket from the iPhone.

 $\mathcal{O}$  3 comments

# **Step 13** 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 14** 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.

 $\bigcirc$  45 comments

# Step 15

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



♀ Add a comment

# Step 16





- 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 frontfacing camera and sensor cable connector.

### ♀ 16 comments

# Step 17





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

### Step 18





- 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





- 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 20 Separating front panel assembly and rear case



• Remove the front panel assembly from the rear case.

#### $\bigcirc$ 3 comments

### Step 21 Home Button



• Remove the two 1.9 mm Phillips screws securing the home button bracket.

### ♀ 3 comments





• Remove the home button bracket from the front panel.

#### ♀ 3 comments

# Step 23





• Use the point of a spudger to disconnect the home button cable connector by pushing it up and away from the home button.

 $\mathcal{O}$  3 comments





- Gently push the top left corner of the home button up away from the front panel.
- Do not push the home button all the way through—you only need to get a corner free so that you can pry it free with a spudger.

(i) This membrane is very thin. If you feel like you're going to tear the button, apply mild heat (with an iOpener, heat gun, or hair dryer) and try again.

# Step 25





• Peel the home button the rest of the way off of the display by prying gently with a spudger.

#### $\bigcirc$ One comment

# Step 26





• Use the point of a spudger to carefully separate the home button cable from the adhesive securing it to the front panel.

# Step 27



- Once all the adhesive has been separated, remove the home button from the front panel.
  - (i) If you are replacing a broken front panel, there may be glass shards stuck to the home button. Carefully remove any remaining glass before transferring your home button to a new display.

### ♀ 17 comments



### Author



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Badges: 53



#### 117 COMMENTS

Its a good advice to remove the battery power before mounting the flex-cables. There is power on the second logic-board (even if the phone is turned off) connector from top, misplacing it while assembly can cause short circuit. peter - 03/11/2015 Will the short circuit damage the logic board or the camera / earpiece assembly? I'm worried just encountered this very issue even though the phone was off. FF camera and earpiece not functioning. Eagle Micro - 06/16/2015 Good advice two: When removing the LCD back shield plate have in mind that the home button connector attached to the shield plate is Very fragile. Its adhered to the screen. Use very little force and do not heat the adhesive too much because then it become even More fragile. I use ifixits metal spudger without heat but one small mistake and it can be teared. peter - 03/21/2015 I have now changed two of these on my phone from different suppliers and both haven't worked! Could it be that both have been defective products or am I doing something wrong!?!? Kieran - 05/12/2015 What seems to be the issue you face from the possibly defective parts? Corun MCCarthy - 05/30/2015 There's so many non-Apple manufacturer's out there that it could be any set of issues. Low quality adhesive or misalignment of the bezzle has been my issue but most Non-Apple LCDs will work fine. And I'm surprised how fast the i6 and i6+ LCDs have came down in price without sacrificing quality. I think Apple's low \$100 repair price point has something to do with it. Eric Thomas - 06/17/2015 i try to repair 2 iphone 6 screen and now i have 2 iphone 6 with only lines in the screens and those 2 screen where working just fine what iam doing wrong ??

djcornelissen - 06/19/2015

i had this problem when i was checking out if my lcd was working when i pulled the glas of. The problem was i didn't plug the 2 lcd kabels good in.

Taron - 08/07/2015

Make sure all the cables are down correctly. You also may have purchased bad screens.

Steve - 03/17/2016

I was informed by Apple today that the Home Button from original Iphone 6 damaged screen, must be installed on the new replacement screen, otherwise the phone will not operate.

how can i remove the home button in order to replace it on the new front panel?

nicolasmangoldmoro - 09/26/2015

I tried one on amazon and repair my iphone6 easily. It works perfectly, the replacement part does sit slightly higher than the oem Apple assembly. I think they have products QA strictly. here is the product

http://www.amazon.com/Quality-iPhone-Dig...

**569330811** - 07/08/2015

i tried one on amazon, repair it myself and it works perfectly. The replacement part does sit slightly higher than the oem Apple assembly. I think it very good!

**569330811** - 07/08/2015

If you reassembling the iphone 6 display do you have to put a glue for it?

Amar Dwarka - 10/11/2015

Can this be used to replace a cracked iPhone 6s glass?

dg1 - 01/01/2016

Wrong order of cords? Steps 14 &15.

I am trying to reinstall the cords and for some reason, the cords seem to be in the wrong order. Can someone help??!!!

laurensmolic - 04/28/2016

Yes very simple fix. This likely happens quite often. You have to lift on the top cord and allow for the middle cord to be repositioned in its proper place. You'll see what I'm talking about upon further investigation! Good success mates. My issue is these darn Chinese screens being defective. Serious issues with pixels and "lines" down middle of screen.

Nikola Tes - 07/30/2016

Do the cables on an iphone 6 display fit on the board of a 6 plus? Simply want to test this board and dont have a 6 plus screen assembly at the moment

Josh Layall - 05/08/2016

My replacement screen isn't still flushed near the mute button. You can see the light bleed at night. How do I fix it?

Michael C - 05/25/2016

My 6 plus screen is cracked, and only about half an inch all the way down on the side shows my screen (sometimes it doesn't, the rest is black with colored lines running down it though it also changes colors sometimes). If I drag my screen down for the notification center I can kind of see it bounce down alittle for a moment.

How do I know if I just need a new panel (about \$26) or an entire screen/LCD replacement (\$100+)?

palidinodh - 06/16/2016

Unfortunately, it's not possible to replace the front glass separately without a lot of expensive equipment (and a lot of practice). You will need to replace the entire glass and display assembly as a unit. Be sure to follow the correct guide; the iPhone 6 Plus guide is here.

Jeff Suovanen - 06/20/2016

My fingerprint isn't working. It'ss not even recognizing a fingerprint is being used. What could be the issue? Everything else works.

#### Austin Prince - 06/29/2016

I had the same problem and last week I upgraded to iOS 10 and VOILÁ, fingerprint WORKING! I think it is because the fingerprint is configured to work and match its unique iPhone motherboard, So when I changed the screen it lost the connection. Hope it works 4 u! One thing: I upgraded to iOS 10 doing a FULL RESTORE because I wanted to start from ZERO!

Gabriela - 10/03/2016

Why go this route when going through apple is cheaper?

jonathanzollinger - 07/12/2016

Firstly, some people don't have access to a local Apple Store. For example, some more rural states like Alaska, lowa, or Idaho only have one Apple store, and Montana doesn't have any. Besides that, if you're skilled and confident enough at this procedure it is more convenient to do the work yourself rather than having to go out and get the job done on someone else's schedule.

Evan Noronha - 07/13/2016

Because you're wrong and it's not cheaper. Buying the parts here is expensive. Elsewhere it's like \$20-30 so.. duh.

roundo32 - 10/09/2016

Hello jonathan I have no choice then do it by myself

because apple refused to repair an iphone 6 which I had the battery replaced by an unauthorized apple service who's battery wasnt

good quality so I'm going to fully restore my ol' iphone 6 replacing the battery and the screen from ifixit and give him a long life I hope! maybe, we'll see later...

GINO Verg - 5 days ago

wow this was tricky. i recommend you do this in the beginning of the day with full daylight and patience! my hand started shanking and my eyes went blurry after one hour. that didn't help! i replaced the wifi/gps/bluetooth flex ribbon cable just last month so was feeling confident going in.. its not for the light hearted. you can do it but allow several hours i though the part i'd received was wrong as i couldn't get the digitiser connector and the three other connectors reconnected.. on the right of the front facing camera.. then i realised i had them in the wrong order, after i'd stuffed around with them for ages. good luck everyone!

sarah - 07/19/2016

its a tricky job. do it in the morning with full energy and daylight! my hand got shaky and my eyes got blurry one hour in.

sarah - 07/19/2016

My daughter broke her iPhone on Sunday.
I ordered the LCD panel and Digitizer repair kit the same day.
It got to Oslo, Norway Wednesday.
The replacement was smooth and easy using the guid, fixed the Phone and made dinner at the same time.
Spent 50min in total.
Very good experience :)

trulshaugen79 - 09/28/2016

Can I ask where you bought from? I'm in Oslo too and need a fast screen. Tusen takk

Stefan O - 07/22/2017

Helpful guide, I had to go ahead and remove the LCD shield and front facing camera as well. The camera was the only difficult thing.

One question- does anyone know why one of the pentalobe screws is refusing to go back in all the way?

Lauren May - 09/29/2016

Sometimes the screw holes/threads in the display don't align perfectly with the ones in the case. Try pressing down gently on the lower edge of the display and see if the screws go in any further. When the display is aligned correctly, the screws should go in very easily. Just experiment a little, and you'll get it. The only exception I've found is with cheap replacement displays, where the alignment can be a lot more difficult to get right because the part itself isn't really within spec.

Jeff Suovanen - 09/30/2016

Just replaced my screen assembly - pretty straightforward. Now, touch ID doesn't work...yay. Any suggestions?

jlapic - 10/04/2016

Hey bro I have had difficulty trying to bring back life to the fingerprint scanner aswell, Anyways it will successfully function properly if you update your phone via iTunes not through the the iPhone settings !, For a better success rate I suggest you fully erase your iPhone through iTunes and start again through its 10 for example & Good luck !

Jimmy Hira - 10/05/2016

Hi bro hope this guide can help solve your problem: http://www.hcqs.us/blog/fix-iphone-6-tou...

Jennychan - 10/30/2016

Once my replacement screen is all plugged in the very bottom of the touch screen doesn't work....like when in calls I can't select favorites, recent calls or voicemail. What did i eff up

caseys211 - 10/11/2016

I also have this issue! Can anyone help with this?

Gabriel - 12/07/2016

I have the same problem. Could you please let me know how you have solved it? The very bottom of my screen is not reacting at all.

Gaby Luong - 11/03/2017

I replaced my screen several times. However this time the very bottom of the touch screen doesn't work/isn't reacting anymore. (Not able to text or swipe up my control center). Does anybody know a solution for my problem? I would be very grateful.

Gaby Luong - 11/03/2017

Read the instructions and comments on this step. You most likely have a digitizer with an incomplete connection to the logic board. Disconnect it and reconnect it, making sure the socket is clean and the connector gets fully seated, and try again. If that doesn't work, you may have a damaged connector, a damaged cable, or a faulty replacement part. If your old display still works, swapping it back in for a quick test may help you narrow it down. Good luck!

Jeff Suovanen - 11/13/2017

) Hiall,

 $\bigcirc$ 

I did this and worked great, although for some reason the on/off button wont work. What do I do now? It was working before hand but isn't now :o Thanks for the great website!

David Gibbons - 12/14/2016

If your replacement screen looks bluish, try turning on "Night Shift" in "Display & Brightness" setting at all times (e.g. 10AM to 9:59AM), and then adjust the "Color Temperature" until it looks natural. At first I was upset that my replacement screen looked different, but now it looked as good as the old screen!

ace1905 - 12/15/2016

Great tutorial. Very simple

Lakeram Edmond - 12/16/2016