



# iPhone 6 Plus Screen Replacement

Fix a cracked or broken screen in your iPhone 6 Plus, while keeping the original home button.

Written By: Walter Galan



## INTRODUCTION

Learn how to replace your iPhone 6 Plus screen. This part comes with the front-facing camera, earpiece speaker and sensor cable already installed, making for an easier repair.

All you need to do is remove the old screen and transfer the home button to the new screen, in order for Touch ID (fingerprint scanning) to function.

[video: <https://www.youtube.com/watch?v=5w-08cn6ufw>]



### TOOLS:

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




### PARTS:

- [iPhone 6 Plus Screen](#) (1)
- [NuGlas Tempered Glass Screen Protector for iPhone 6 Plus 6s Plus 7 Plus](#) (1)
- [iPhone 6 Plus Front Panel Assembly Cable Bracket](#) (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 P2 Pentalobe screws next to the Lightning connector.

## 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.
    - ⓘ 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



- ❗ The next two steps demonstrate using the [iSclack](#), a great tool for safely opening the iPhone 6 Plus that we recommend for anyone doing more than one repair. **If you aren't using the iSclack, skip down two steps.**
- 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 Plus.
- Close the handle on the iSclack, opening the suction cup jaws.
- Place the bottom of your iPhone in between the suction cups.
- ❗ Position the iSclack's upper suction cup against the display, near 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.
- ❗ 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 iSclack also includes two pieces of tape for this purpose.

## Step 4



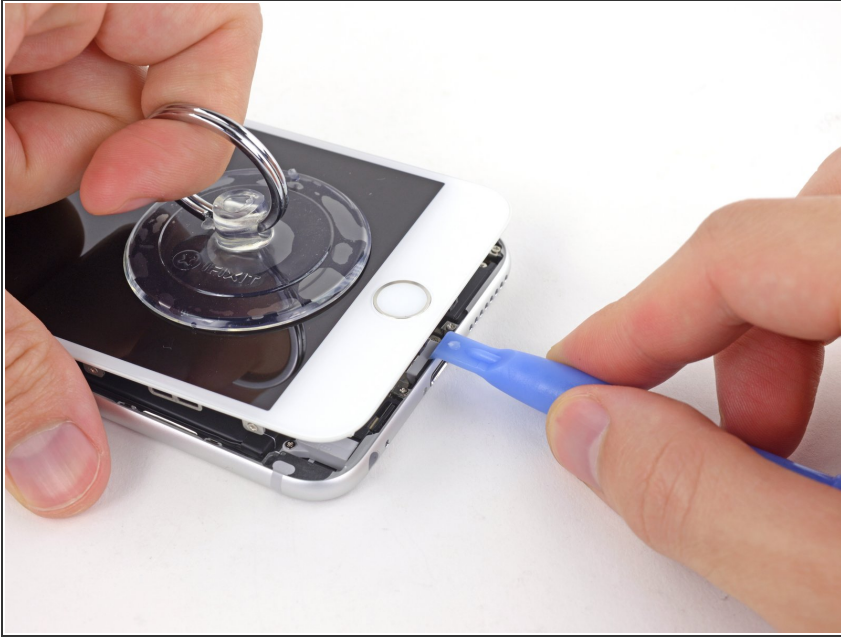
- Hold onto your iPhone securely and close the handle of the iSclack to separate the suction cups, pulling the front panel up from the rear case.
- ⓘ The iSclack is designed to safely open your iPhone enough to separate the pieces, but not enough to damage any of the display cables.
- Peel the two suction cups off your iPhone.
- **Skip the next three steps and continue on to Step 7.**

## Step 5 — Front Panel Assembly



- 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



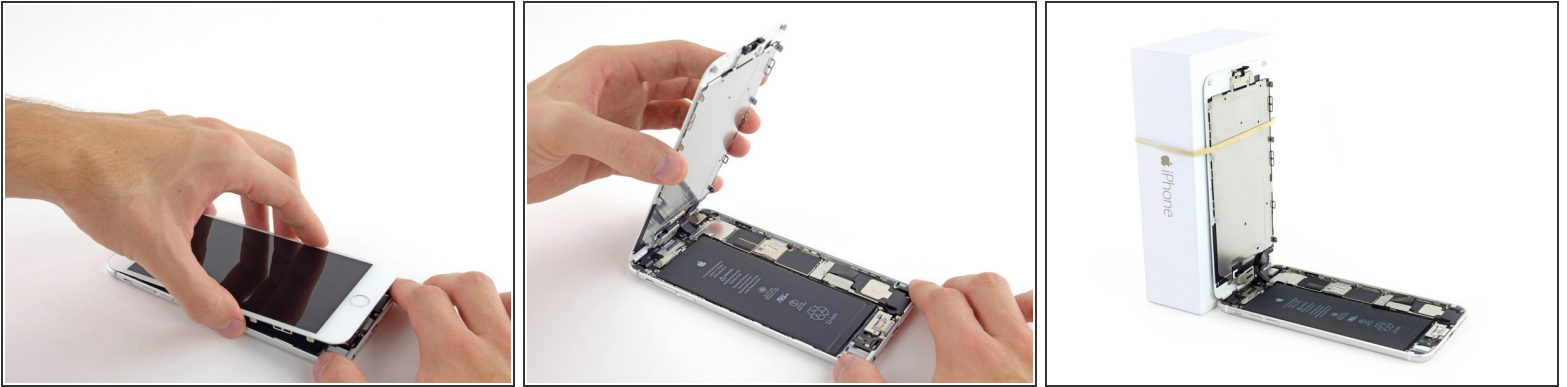
- While holding the iPhone down with one hand, pull up on the suction cup to slightly separate the front panel assembly from the rear case.
- ⚠ Take your time and apply firm, constant force. The display assembly is a much tighter fit than most devices.
- Using a plastic opening tool, begin to gently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



- Pull the home button end of the front panel 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 9



-  Several clips along the top edge of the front panel form a partial hinge, allowing the front panel assembly to swing open like a book.
-  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 10



- Remove the following Phillips screws from the battery connector bracket:
  - One 2.3 mm screw
  - One 3.1 mm screw

## Step 11



- Remove the metal battery connector bracket from the iPhone.

## Step 12



- Use a clean fingernail or the edge of an 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



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

- Three 1.2 mm screws
- One 1.5 mm screw
- One 2.9 mm screw

**⚠ Do not attempt to insert longer screws into the red marked screw holes. Doing so may result in irreparable damage to the logic board.**

## Step 14



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

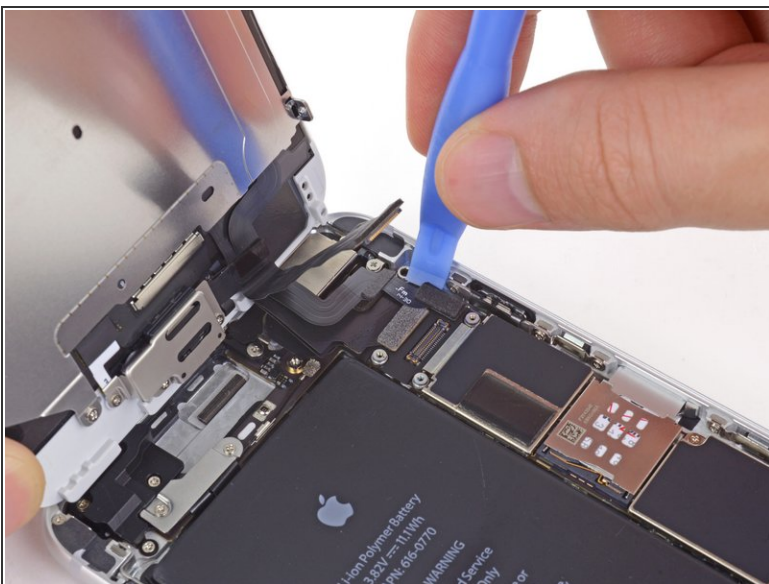
## Step 15



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

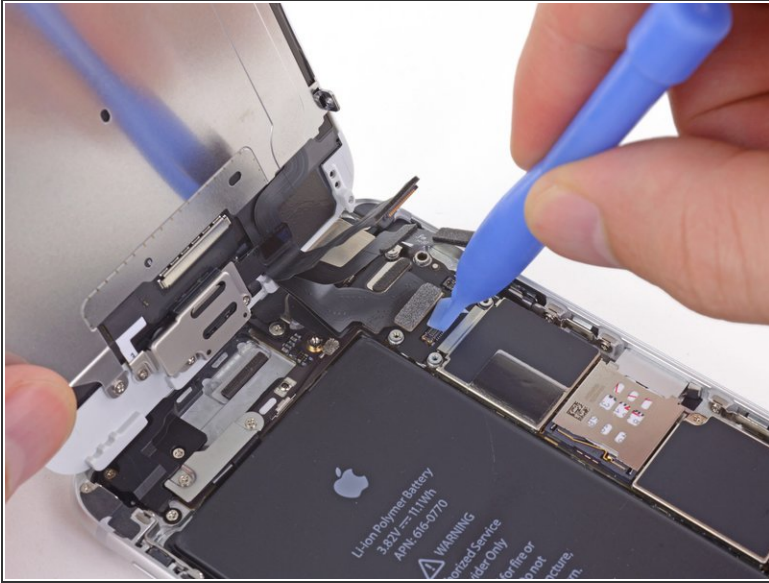
- While still supporting the front panel, use a fingernail or the edge of an opening tool to disconnect the front-facing camera and earpiece speaker connector.


## Step 16




- Disconnect the home button cable connector.

## Step 17

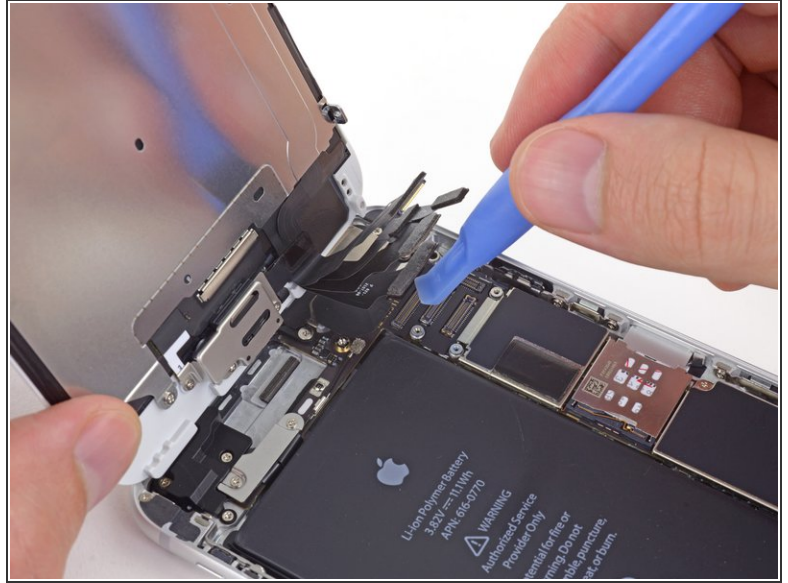
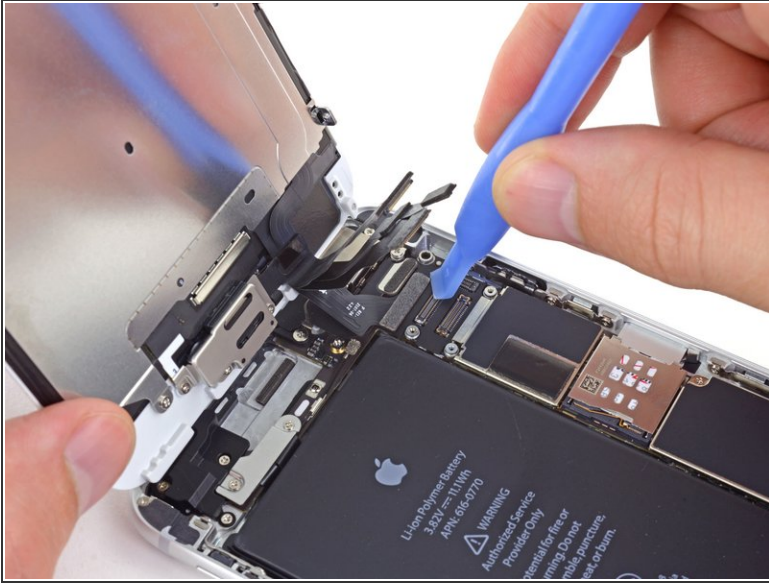


 Make sure the battery is disconnected before you disconnect or reconnect the cable in this step.

- Use a plastic opening tool to disconnect the display data cable connector.

 When reassembling your phone, the display data 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 connector](#).

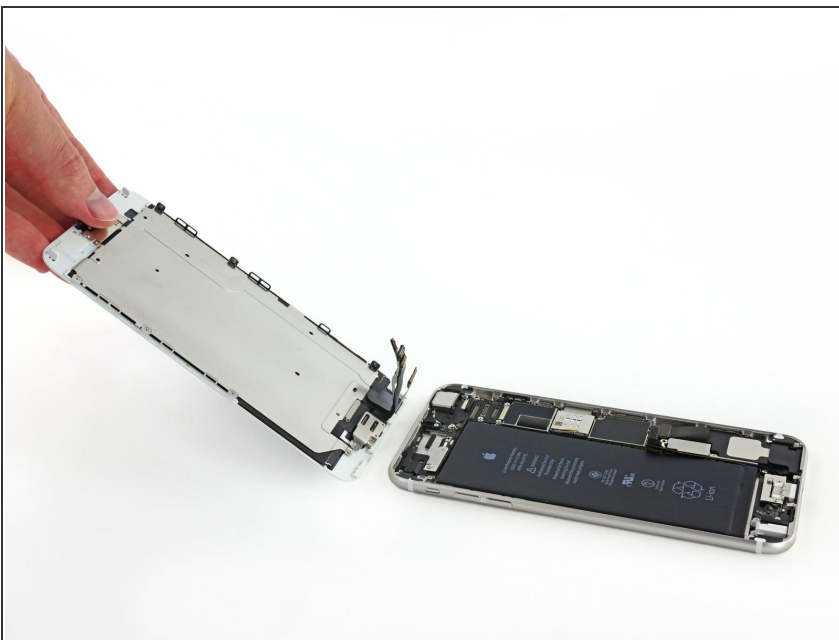
## Step 18



- Finally, 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



- Remove the front panel assembly from the rear case.

## Step 20 — Home Button Assembly



- Remove the two 1.8 mm Phillips screws securing the home button bracket to the front panel.

## Step 21



- Remove the home button bracket from the front panel assembly.

## Step 22



- Use the tip of a spudger to disconnect the home button connector from its socket on the home button cable.

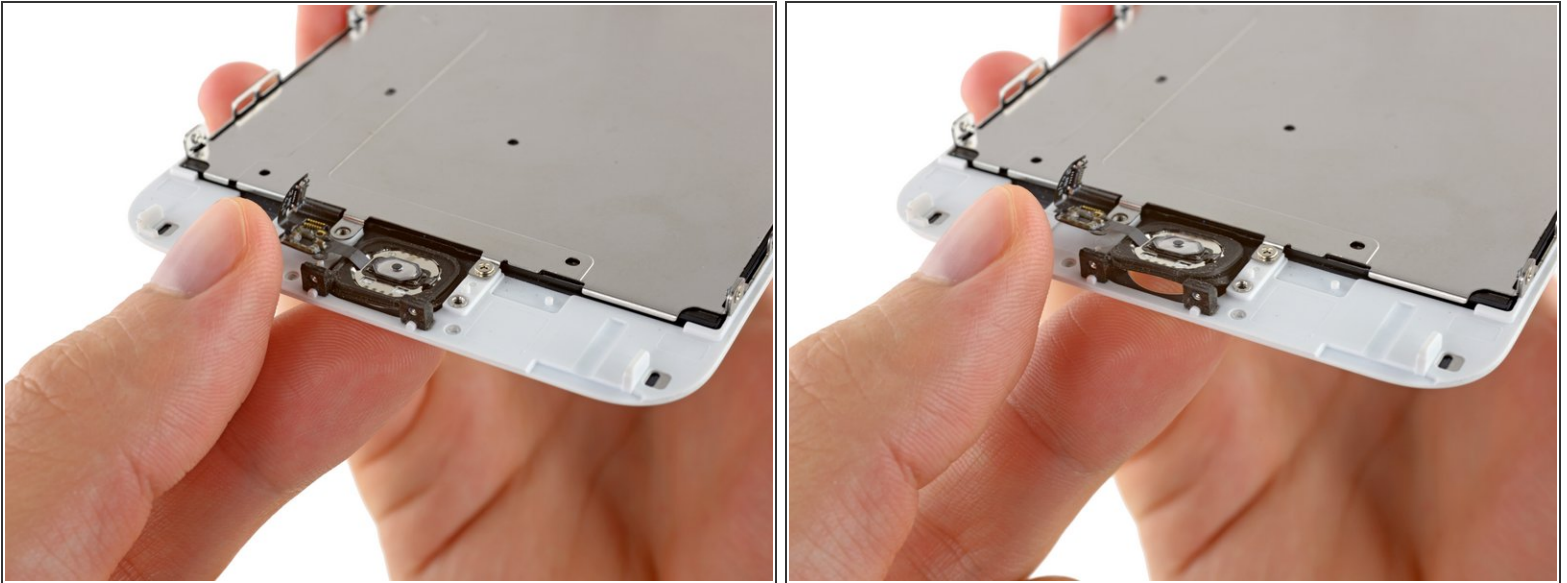
## Step 23




- Carefully wedge the tip of a spudger underneath the home button connector cable.
- Gently move the spudger across to separate the home button connector cable from the adhesive securing it to the front panel assembly.

⚠ If the cable doesn't separate easily, apply heat using an [iOpener](#) or hair dryer to soften the adhesive, and try again. Be careful not to damage the cable.

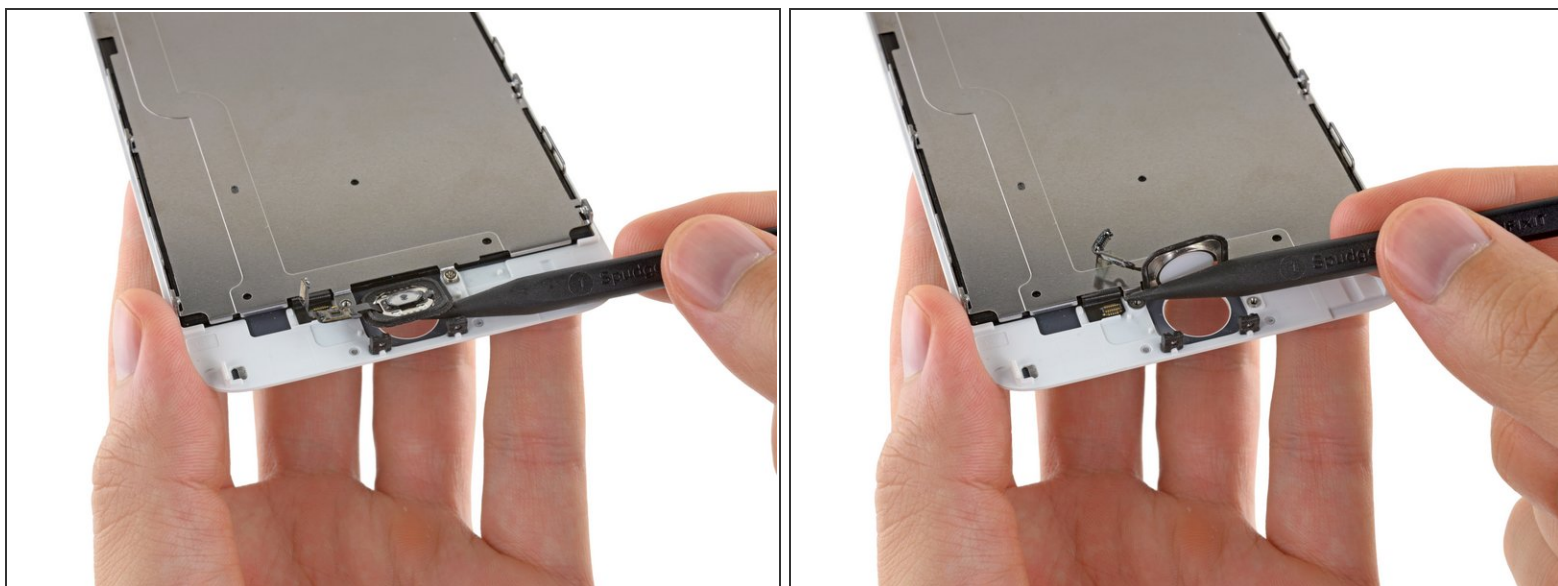
## Step 24



 The rubber gasket surrounding the home button is very thin and tears easily.

- Apply mild heat (with an [iOpener](#), heat gun, or hair dryer) to soften the adhesive securing the home button gasket.
- Using your fingertip, gently press up on the home button from the front side of the display assembly. Use firm, constant pressure to slowly separate the home button's rubber gasket from the front panel.

## Step 25



- Carefully use the tip of a spudger to finish separating the home button from the front panel.

## Step 26



- Lift and remove the home button assembly off the front panel assembly.

## Step 27 — Screen



- The screen remains.
- ★ The Touch ID function will **ONLY** work with your phone's original home button assembly, so you'll need to transfer the home button assembly from your old screen to your new screen to retain Touch ID.
- ★ Your replacement part may come with an [extra Phillips screw](#) already installed left of the Home Button. Remove the unnecessary screw so that you can reinstall the home button bracket.
- i After reassembly, clean the touchscreen surface with an alcohol wipe prior to turning the iPhone back on. The alcohol helps dissipate any lingering static electricity, which can cause problems with the display.
- ⚠ After reassembly, connect the iPhone to an AC power source before turning it on for the first time. Once the iPhone has booted up successfully, you can disconnect the AC power.

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