



iPhone 7 Power Button Replacement

Use this guide to remove or replace the power...

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INTRODUCTION

Use this guide to remove or replace the power button in your iPhone 7. This guide is just for the physical button, and not the electronic switches beneath.

If you need to replace the volume and power control cable, follow [this guide](#).



TOOLS:

[Anti-Clamp](#) (1)
[Standoff Screwdriver for iPhones](#) (1)
[P2 Pentalobe Screwdriver iPhone](#) (1)
[iOpener](#) (1)
[Suction Handle](#) (1)
[Spudger](#) (1)
[iFixit Opening Picks \(Set of 6\)](#) (1)
[Tri-point Y000 Screwdriver](#) (1)
[Tweezers](#) (1)
[Phillips #000 Screwdriver](#) (1)
[SIM Card Eject Tool](#) (1)
[Halberd Spudger](#) (1)
[Plastic Cards](#) (1)
[ESD Safe Blunt Nose Tweezers](#) (1)



PARTS:

[iPhone 7 Case Button Set](#) (1)
[iPhone 7/7 Plus Power/Volume Button Retaining Clips](#) (1)
[iPhone 7/7 Plus Power and Volume Button Gaskets](#) (1)
[iPhone 7 Display Assembly Adhesive](#) (1)
[iPhone 7 Power Button Bracket](#) (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 3.4 mm pentalobe screws on 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 — Mark your opening picks



- ① If inserted too far, an opening pick can damage your device. Follow this step to mark your pick and prevent damage.
- Measure 3 mm from the tip and mark the opening pick with a permanent marker.
 - ① You can also mark the other corners of the pick with different measurements.
 - ① Alternatively, [tape a coin to a pick](#) 3 mm from the tip.

Step 3 — Anti-Clamp instructions



- ① The next three steps demonstrate the [Anti-Clamp](#), a tool we designed to make the opening procedure easier. **If you aren't using the Anti-Clamp, skip down three steps for an alternate method.**
- ① For complete instructions on how to use the Anti-Clamp, [check out this guide](#).
- Pull the blue handle backwards to unlock the Anti-Clamp's arms.
- Slide the arms over either the left or right edge of your iPhone.
- Position the suction cups near the bottom edge of the iPhone just above the home button—one on the front, and one on the back.
- Squeeze the cups together to apply suction to the desired area.
- ① If you find that the surface of your iPhone is too slippery for the Anti-Clamp to hold onto, you can [use tape](#) to create a grippier surface.

Step 4



- Pull the blue handle forwards to lock the arms.
- Turn the handle clockwise 360 degrees or until the cups start to stretch.
- Make sure the suction cups remain aligned with each other. If they begin to slip out of alignment, loosen the suction cups slightly and realign the arms.

Step 5



- [Heat an iOpener](#) and thread it through the arms of the Anti-Clamp.
 - ① You can also use a [hair dryer](#), [heat gun](#), or hot plate—but extreme heat can damage the display and/or internal battery, so proceed with care.
- Fold the iOpener so it lays on the bottom edge of the iPhone.
- Wait one minute to give the adhesive a chance to release and present an opening gap.
- Insert an opening pick into the gap.
 - ① If the Anti-Clamp doesn't create a sufficient gap, apply more heat to the area and rotate the handle a quarter turn.
- ⚠ **Don't crank more than a quarter turn at a time, and wait one minute between turns. Let the Anti-Clamp and time do the work for you.**
- **Skip the next three steps.**

Step 6 — Heat the display



- ① The next three steps show how to separate the screen using a suction cup.
- 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 phone for about 90 seconds in order to soften up the adhesive underneath.

Step 7 — Separate the display



- 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 8



- Pull up on the suction cup with firm, constant pressure to create a slight gap between the screen and the frame.
 - Insert an opening pick into the gap.
- ⓘ The watertight adhesive holding the screen 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 9



- Slide the opening pick up the left edge of the phone starting at the lower edge and 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.

⚠ Do not try to pry the top edge of the display away from the rear case, as it is held in place by plastic clips that may break.

Step 10 — Screen information



⚠ There are delicate cables along the right edge of your iPhone. **Don't insert your pick here,** as you may damage the cables.

Step 11



- 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 your pick more than 3 mm, as you may damage the display cables.

Step 12



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

Step 13



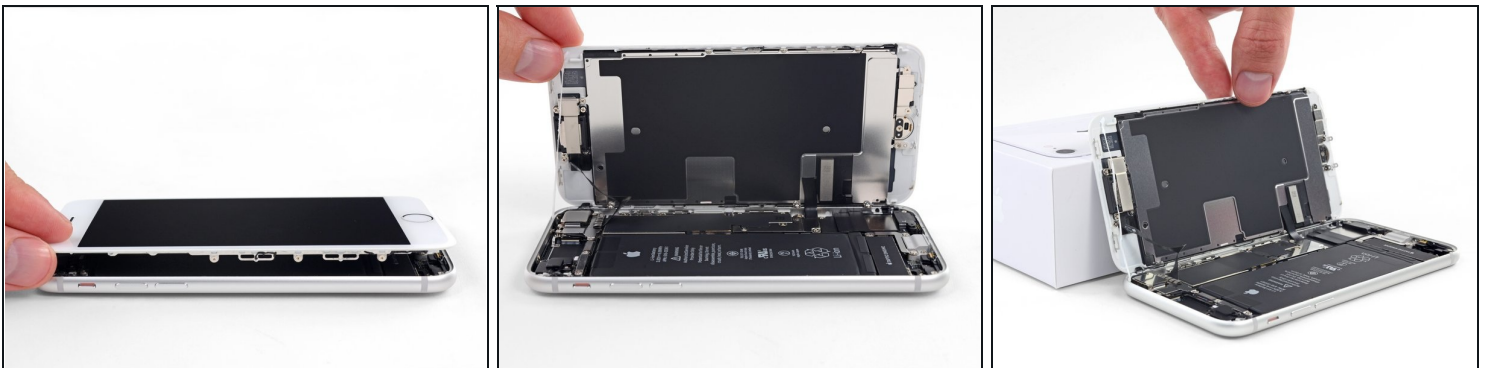
- Slide an opening pick underneath the display around the top left corner and along the top edge of the phone to loosen the last of the adhesive.

Step 14



- 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 15



- 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 16 — Battery Disconnection



- [Remove four tri-point Y000 screws](#) securing the lower connector bracket, of the following lengths:
 - Three 1.2 mm screws
 - One 2.4 mm screw
- ① Throughout this repair, [keep track of each screw](#) and make sure it goes back exactly where it came from to avoid damaging your iPhone.

Step 17



- Remove the lower connector bracket.

Step 18



- Use the point of a spudger to lift the battery connector out of its socket on the logic board.
- ① Bend the connector cable up slightly to prevent it from making contact with the socket and providing power to the phone.

Step 19 — Display Assembly



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

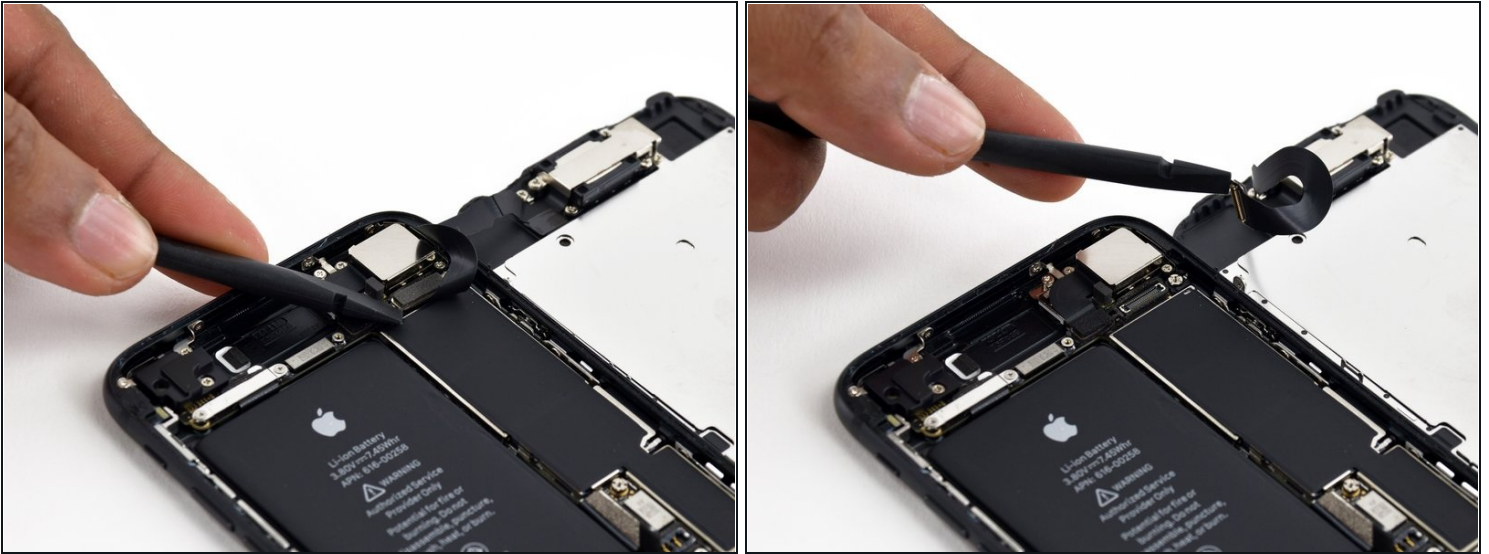
- Use a spudger or a fingernail to disconnect the two lower display connectors by prying them straight up from their sockets on the logic board.
- ☑ To reconnect these cables, press down on one end until it clicks into place, then repeat on the opposite end. **Do not** press down on the middle. If the connector is even slightly misaligned, the connector can bend, causing permanent damage.
- ☑ If you have a blank screen, white lines on the display, or partial or complete lack of touch response after reassembling your phone, try disconnecting and carefully reconnecting both of these cables and make sure they are fully seated.

Step 20



- Remove the two 1.3 mm Phillips #000 screws securing the bracket over the front panel sensor assembly connector.
- ⓘ Some phones could be Y000. Apple started using Y000 for these at some point in the middle of the product's lifecycle.

Step 21



- Disconnect the front panel sensor assembly connector from its socket on the logic board.
- ☑ This press connector should also be reconnected one end at a time to minimize the risk of bending.

Step 22



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

Step 23 — 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.
 - ⓘ This may require a significant amount of force. However, ensure the eject tool is properly aligned beforehand as to not damage the eject mechanism inside the phone.
- 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 24 — Logic Board Connectors



- Use the flat end of a spudger to disconnect the rear-facing camera connector.

Step 25



- Remove the following Phillips screws securing the rear camera bracket to the rear case:
 - One 1.3 mm screw
 - One 2.5 mm screw

Step 26



- Remove the bracket.

Step 27



- Use the pointed end of a spudger to pry up and disconnect the antenna bus connector, just left of the rear camera module.

Step 28



- Remove the two 1.2 mm tri-point screws securing the upper cable bracket.

Step 29



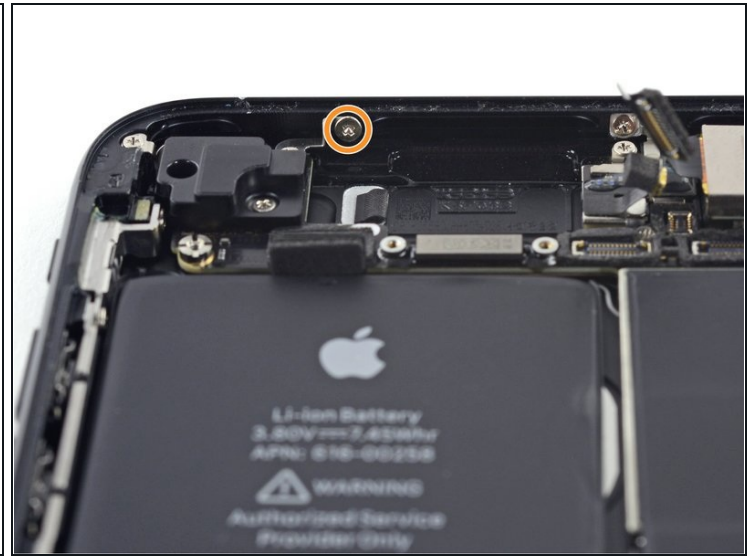
- Remove the upper cable bracket.

Step 30



- Use the flat end of a spudger to disconnect the upper cable connector.

Step 31



- Remove the four Phillips screws securing the Wi-Fi antenna:
 - Three 1.2 mm screws
 - One 1.7 mm screw

Step 32



- Remove the top left antenna.

Step 33



- Remove the following Phillips screws:
 - One 1.3 mm screw
 - One 2.2 mm screw

Step 34



- Remove the bracket.

Step 35



- Remove the 2.2 mm standoff screw from the grounding bracket.

ⓘ Standoff screws are best removed using a [standoff screwdriver](#) or bit.

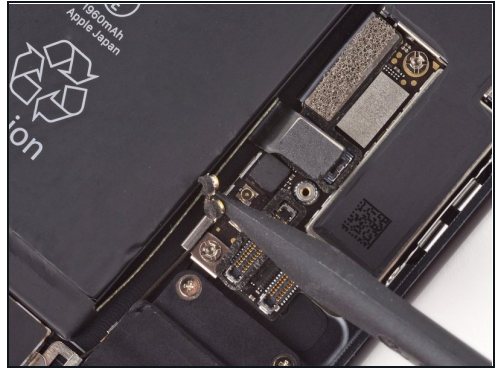
⚠ In a pinch, a small flathead screwdriver will do the job—but use extra caution to ensure it doesn't slip and damage surrounding components.

Step 36



- Use tweezers to gently bend the logic board grounding bracket out of the way.

Step 37 — Logic Board



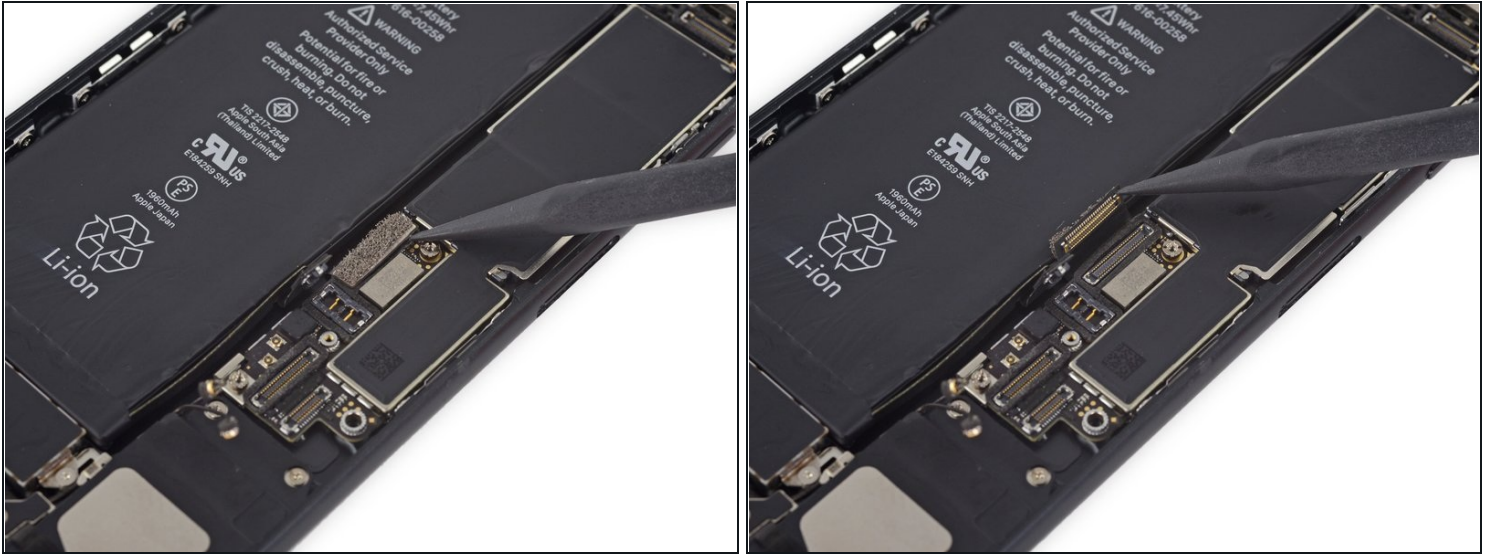
- Use the point of a spudger to lift the two antenna cable connectors up off of the sockets on the logic board.

Step 38



- Use tweezers to gently derout the antenna cables from the metal bracket on the logic board.

Step 39



- Use the point of a spudger to disconnect the lower cable connector.

Step 40



- Remove the following screws:
 - One 1.4 mm Phillips screw
 - Three 2.2 mm standoff screws
- Standoff screws are best removed using a [standoff driver](#).

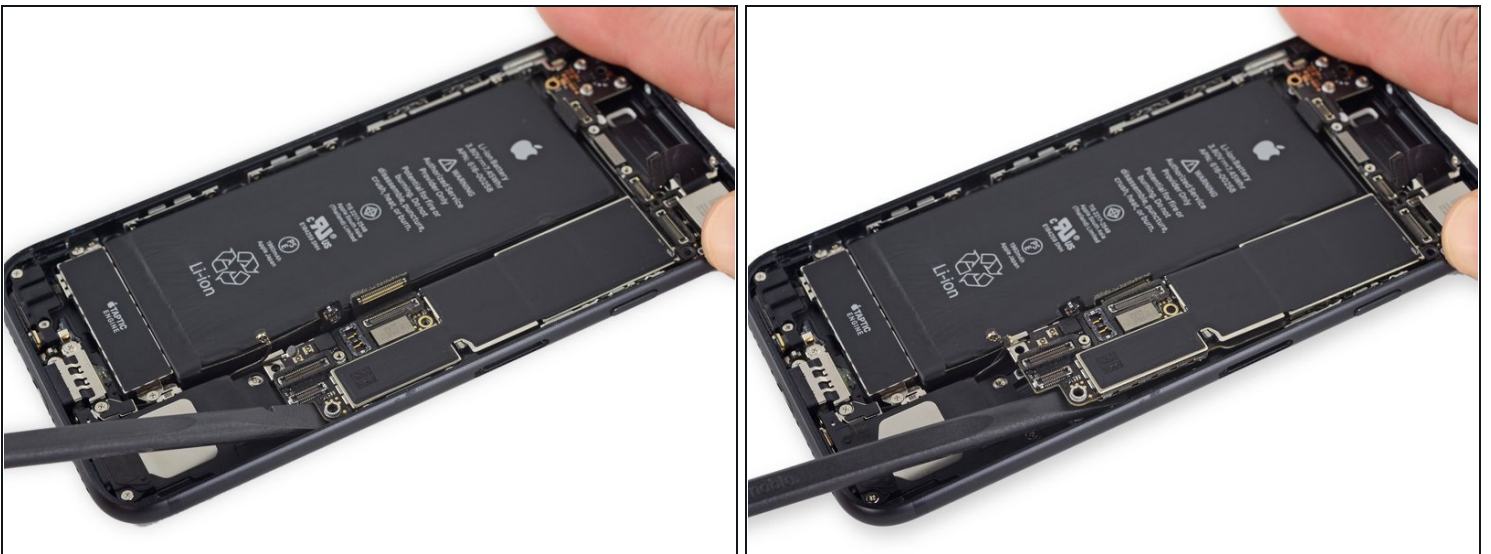
⚠ In a pinch, a small flathead screwdriver will do the job—but use extra caution to ensure it doesn't slip and damage surrounding components.

Step 41



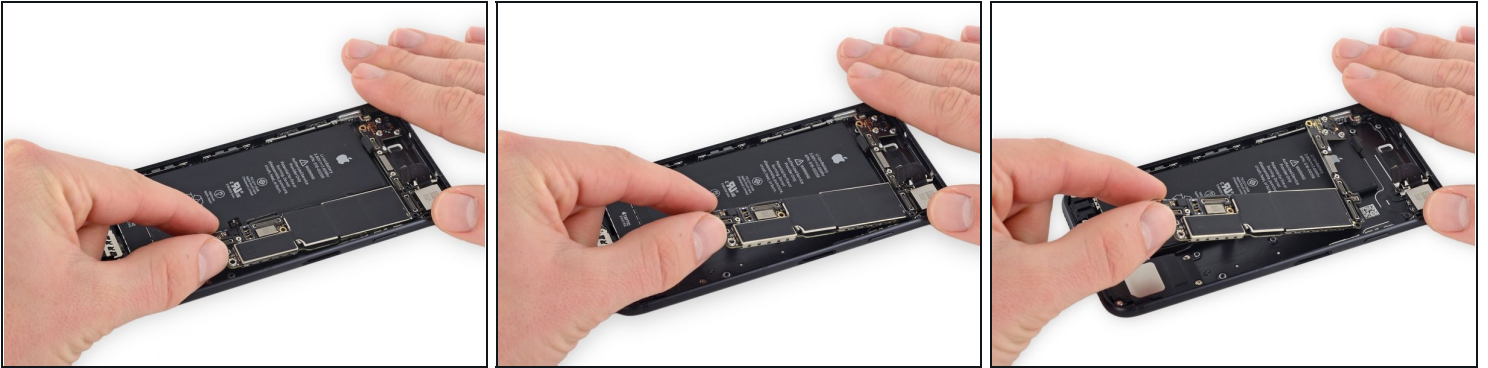
- Use the point of a spudger to move the SIM card eject plunger out of the logic board's way.

Step 42



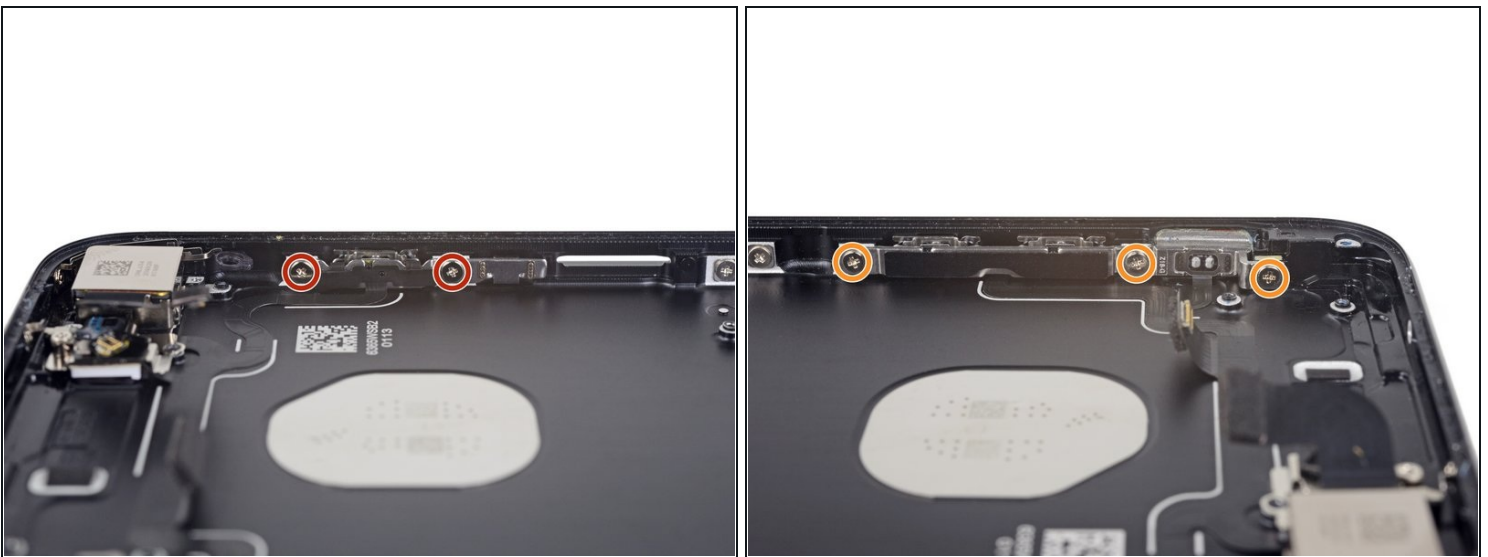
- Use the flat end of a spudger to gently lift the battery connector end of the logic board up.
 - ⓘ Make sure you're not pulling against any cables. If you feel resistance, check all cables, connectors, and components are clear of the board.

Step 43



- 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 44 — Power and Volume Control Cable



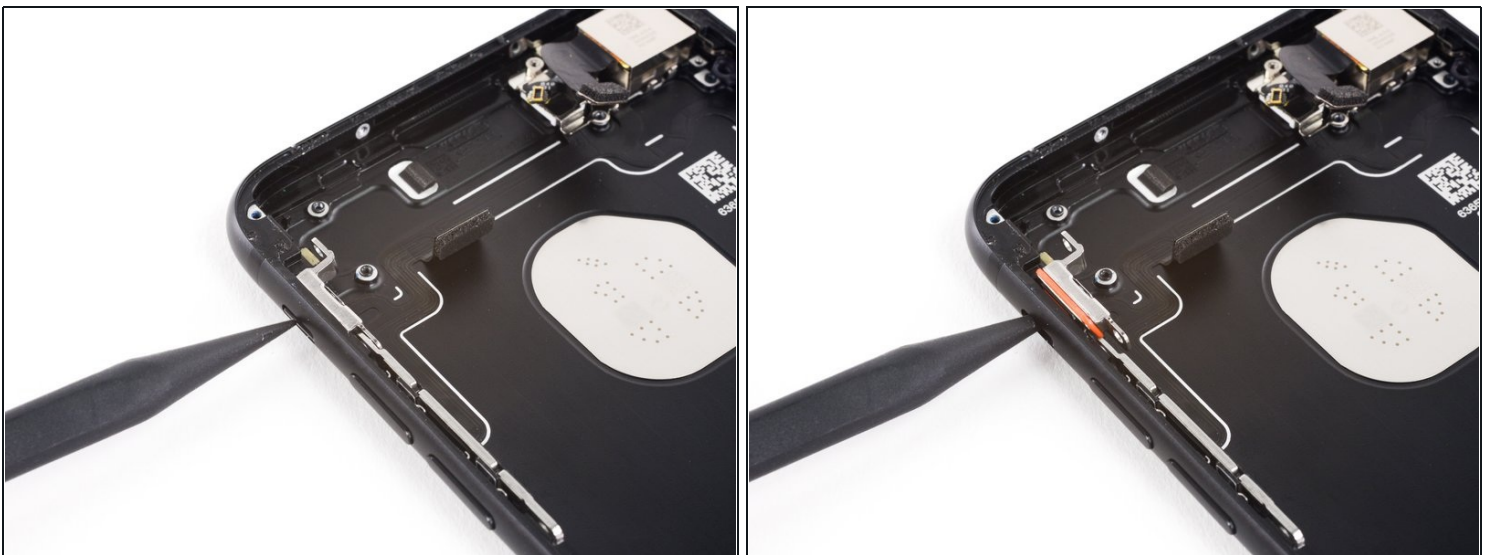
- Remove the following Phillips screws:
 - Two 1.9 mm screws securing the power button.
 - Three 2.3 mm screws securing the volume buttons.

Step 45



- Remove the following 1.3 mm Phillips screws:
 - One screw beside the rear-facing camera
 - One screw on the rear case

Step 46



- From the outside of the phone, push the hold switch into the rear case with the point of a spudger.
- This action will free the hold switch and gasket from the rear case.

Step 47



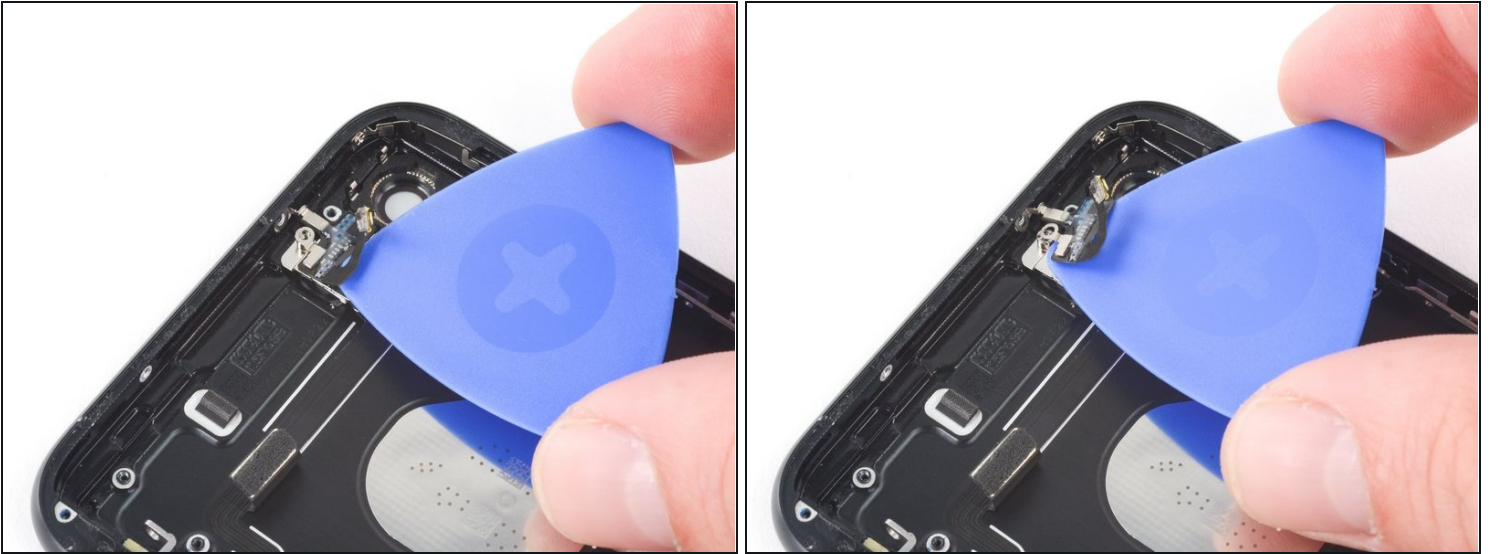
- Use a pair of tweezers to remove the rear-facing camera.

Step 48



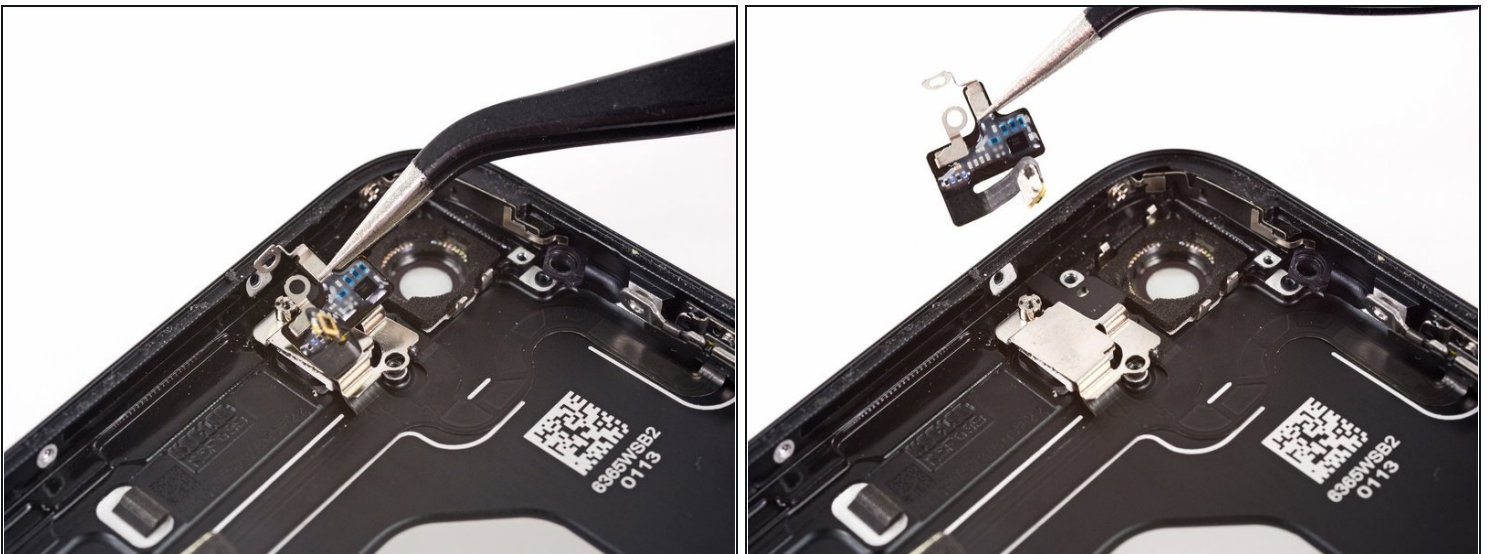
- Moving from power button side of the phone, use an opening pick to separate the adhesive holding the antenna flex cable to the rear case.

Step 49



- Slide the point of an opening pick underneath the antenna flex cable towards the top of the phone, separating the remaining adhesive.

Step 50



- Use tweezers to move the antenna flex cable away from the edge of the phone, freeing the screw bracket from the rear case.
- Remove the antenna flex cable.

Step 51



- Remove the 2.3 mm standoff screw securing the flash bracket to the rear case.
- ⓘ Standoff screws are best removed using an [linked product missing or disabled: IF145-343] 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 52



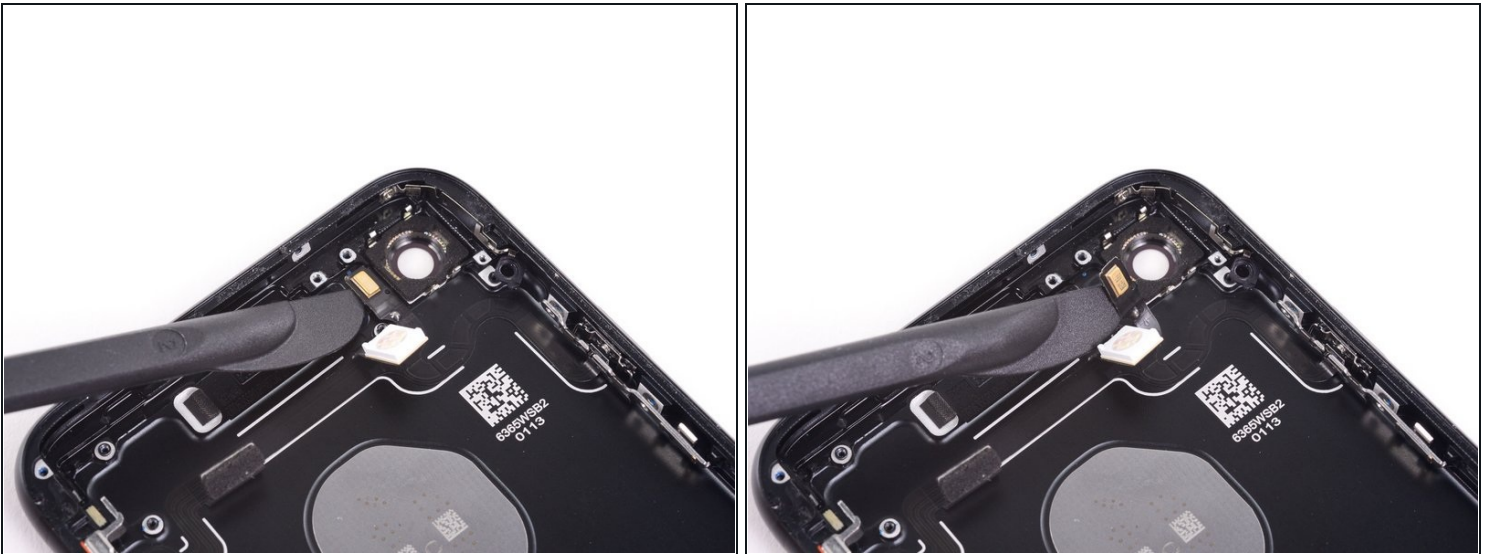
- Remove the flash bracket.

Step 53



- Use the point of a spudger to gently unseat the flash module.

Step 54



- Use the blade of a Halberd spudger to separate the adhesive holding the microphone to the rear case.

Step 55



- Gently fold the power button module from the edge of the rear case.

Step 56



- Slide the blade of a halberd spudger under the power button end of the button cable to separate it from the adhesive on the rear case.
- Continue to separate the adhesive by moving the blade towards the top of the phone.

Step 57



- Continue to move the blade of the halberd spudger underneath the power and volume control cable.

⚠ Move slowly to make sure that the cable is not damaged during removal.

Step 58



- Slide the halberd spudger under the volume control portion of the button cable.
- Gently slide the blade underneath the cable towards the bottom of the phone, separating the remaining adhesive.

Step 59



- Remove the power and volume control cable.

Step 60 — Power Button



- Pull the clip towards the bottom of the phone and lift up to free it from the bracket.

Step 61



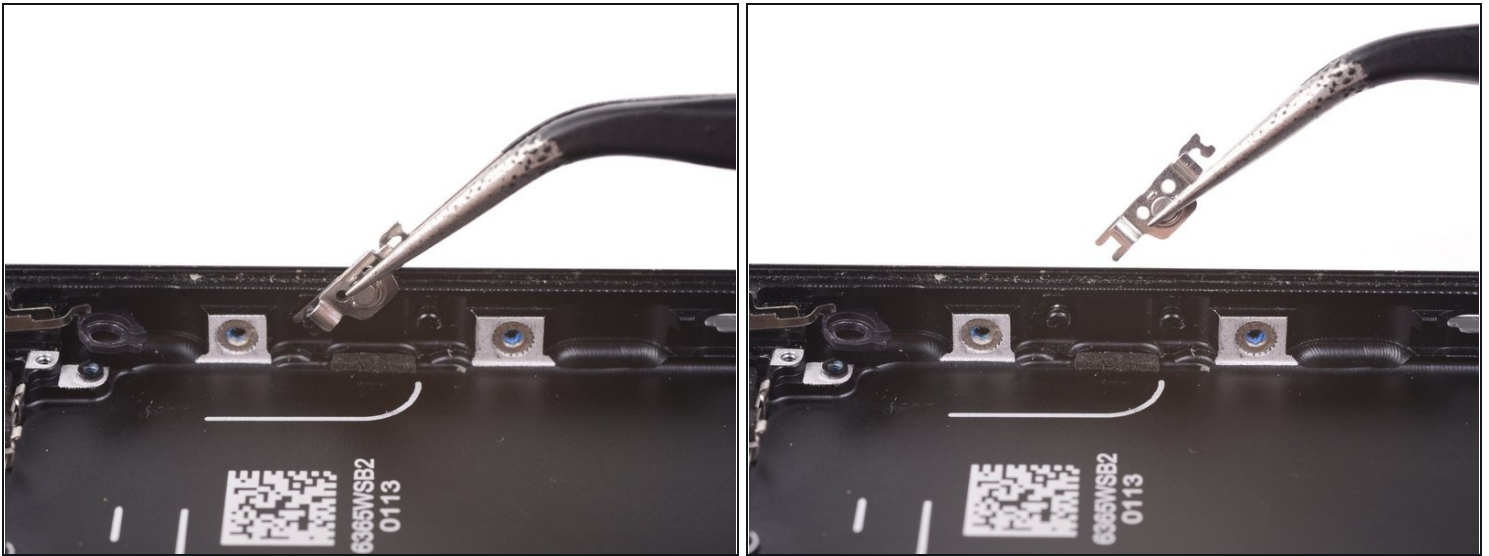
- Remove the clip from the rear case.

Step 62



- Push the lower end of the power button bracket up off of peg securing it.

Step 63



- Pull the bracket from the rear case.

Step 64



- Use the pointed end of a spudger to push the power button cover out of the rear case.
- Remove the power button cover.

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