

iPhone X Rear Case Replacement

Use this guide to remove all components from...

Written By: Jerry Wheeler



INTRODUCTION

Use this guide to remove all components from the rear case of your iPhone X. This guide will show you how to remove speaker, cables, taptic engine, battery, logic board, and button covers so you can replace a cracked, dented, or bent cover.

Just so you're forewarned; this is **the** most difficult repair possible on an iPhone X that doesn't involve microsoldering.

TOOLS:

SIM Card Eject Tool (1)

P2 Pentalobe Screwdriver iPhone (1)

iOpener (1)

iFixit Opening Picks (Set of 6) (1)

Suction Handle (1)

Anti-Clamp (1)

Spudger (1)

Tweezers (1)

Tri-point Y000 Screwdriver (1)

Phillips #000 Screwdriver (1)

iFixit Opening Tool (1)

PARTS:

iPhone X Loudspeaker Connector

Gasket Foam Pads (1)

iPhone X Loudspeaker Adhesive Gasket

(3)

iPhone X Battery Adhesive Strips (1)

iPhone X Display Assembly Adhesive

(1)

iPhone X Lightning Port Adhesive

Gasket (1)

iPhone X Rear Camera Foam Pad (1)

iPhone X Front Facing Camera Cables

Conductive Adhesive Set (1)

iPhone X OEM Rear Case (1)

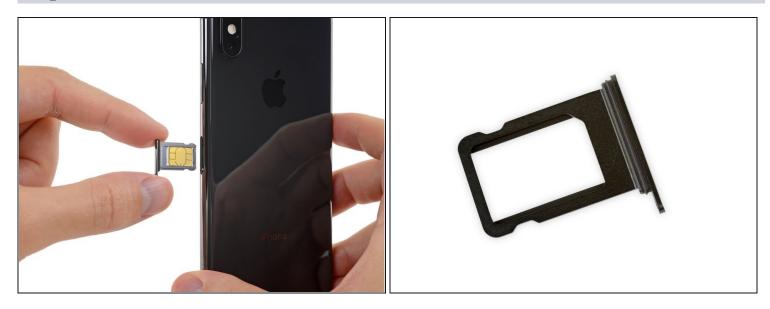
iPhone X Aftermarket Blank Rear Case

(1)

Step 1 — SIM Card



- Insert a SIM card eject tool or a paperclip into the small hole in the SIM card tray, located near the side button on the edge of the iPhone.
- Press firmly to eject the tray.



- Remove the SIM card tray from the iPhone.
 - (i) The SIM card will fall out of the tray easily.
- When reinserting the SIM card, ensure that it is in the proper orientation relative to the tray.
- A thin rubber gasket around the SIM tray provides water and dust protection. If this gasket is damaged or missing, replace the gasket or the entire SIM tray to protect your iPhone's internal components.

Step 3 — 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 6.9 mm-long pentalobe screws at the bottom edge of the iPhone.
- If the screws are stripped or damaged, replace the screws.
- ② 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 4 — Mark your opening picks



- (i) 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.
- (i) You can also mark the other corners of the pick with different measurements.
- (i) Alternatively, tape a coin to a pick 3 mm from the tip.

Step 5 — Tape over any cracks







- (i) If your iPhone has a cracked screen, 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 screen until the whole face is covered.

⚠ Wear safety glasses to protect your eyes from any glass shaken free during the repair.

- If you can't get the suction cup to stick in the next few steps, fold a strong piece of tape (such as duct tape) into a handle and lift the screen with that instead.
 - (i) If all else fails, you can superglue the suction cup to the screen.

Step 6 — Anti-Clamp instructions







- (i) The next three steps demonstrate the <u>Anti-Clamp</u>, 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.**
 - i 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—one on the front, and one
 on the back.
- Squeeze the cups together to apply suction to the desired area.
 - (i) If you find that the surface of your iPhone is too slippery for the Anti-Clamp to hold onto, you can <u>use tape</u> to create a grippier surface.







- Pull the blue handle forward 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.



- Heat an iOpener and thread it through the arms of the Anti-Clamp.
 - ② You can also use a <u>hair dryer</u>, <u>heat gun</u>, 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 under the screen and the plastic bezel, not the screen itself.
- *i* 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.



- iPhone will help soften the adhesive securing the display, making it easier to open.
- Use a <u>hairdryer</u> or <u>heat gun</u> or <u>prepare an iOpener</u> and apply it to the lower edge of the iPhone for about a minute in order to soften up the adhesive underneath.
- ⚠ If you use a hairdryer or heat gun, do not heat to much because that can result in damaging the screen.

Step 10



• If using a single suction handle, apply it to the bottom edge of the phone, while avoiding the curved portion of the glass.



- 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 under the screen's plastic bezel, not the screen
 itself.
- (i) 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 12



 Slide the opening pick around the lower left corner and up the left edge of the iPhone, slicing through the adhesive holding the display in place.

🛆 Don't insert your pick more than 3 mm, as you may damage internal components.

Step 13 — **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 14



• Re-insert your pick at the bottom edge of the iPhone, and slide it up the right side to continue separating the adhesive.

⚠ Don't insert your pick more than 3 mm, as you may damage the display cables.



- (i) The top edge of the display is secured with both glue and clips.
- Slide the opening pick around the top corner of the display, while gently pulling or wiggling the display *down* in the direction of the Lightning port.
 - The clips will break if you use too much force. Work carefully and be patient.
 - ⚠ Don't insert your pick more than 3 mm, as you may damage the front panel sensor array.
- Slide the pick to the opposite corner and cut any remaining adhesive securing the display.

Step 16



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







- 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.
- ⚠ As pictured, make sure the frame comes off with display and doesn't get stuck in the device.
- Lean the display against something to keep it propped up while you're working on the phone.
- During reassembly, lay the display in position, align the clips along the top edge, and carefully press the top edge into place before snapping the rest of the display down. If it doesn't click easily into place, check the condition of the clips around the perimeter of the display and make sure they aren't bent.

Step 18 — Display Assembly



- Remove five Y000 screws securing the logic board connector bracket, of the following lengths:
 - Three 1.1 mm screws
 - One 3.1 mm screw
 - One 3.7 mm screw
- i Throughout this repair, keep track of each screw and make sure it goes back exactly where it came from to avoid damaging your iPhone.



- Remove the bracket.
- i The bracket may be lightly adhered in place. Lift gently but firmly to separate it.
- During reassembly, this is a good point to power on your iPhone and test all functions before you seal the display in place. Be sure to power your iPhone back down completely before you continue working.



- Use the point of a spudger or a clean fingernail to pry the battery connector up from its socket on the logic board.
 - (i) Try not to damage the black silicone seal surrounding this and other board connections. These seals provide extra protection against water and dust intrusion.
- Bend the connector slightly away from the logic board to prevent it from accidentally making contact with the socket and providing power to the phone during your repair.



• Use the point of a spudger or a fingernail to disconnect the front panel sensor assembly connector.



- Use the point of a spudger or a fingernail to disconnect the OLED panel cable connector.
 - To re-attach <u>press connectors</u> like this one, carefully align and press down on one side until it clicks into place, then repeat on the other side. Do not press down on the middle. If the connector is misaligned, the pins can bend, causing permanent damage.



- Use the point of a spudger to pry the digitizer cable connector up from its socket.
- This connector's recessed location makes it tricky to reconnect. Take your time and align it carefully, then gently press it into place with your fingertip—first one side, then the other. You should feel it click into place.
- If any part of your screen doesn't respond to touch after your repair, disconnect the battery and then re-seat this connector, making sure it clicks fully into place and that there's no dust or other obstruction in the socket.



- (i) The front panel sensor assembly flex cable is lightly adhered in place.
- Carefully lift the cable until the adhesive separates.



- Remove the display assembly.
- During reassembly, pause here if you wish to replace the waterproof adhesive around the edges of the display.

Step 26 — Lower Speaker





\triangle Be careful not to touch the three rows of grounding pads near the bottom of the iPhone.

- Remove the seven screws securing the bracket below the Taptic Engine and speaker:
 - Two Y000 1.9 mm screws
 - One Y000 1.2 mm screw
 - One Y000 1.6 mm screw
 - One Phillips 2.4 mm screw
 - One Phillips 1.7 mm screw
 - One Phillips 1.5 mm screw





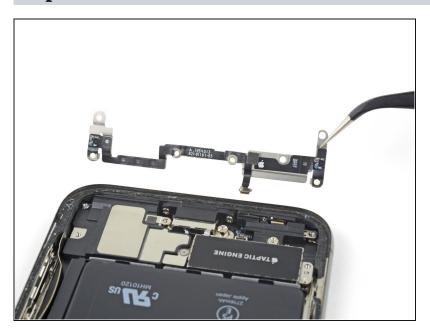
• Lift the bracket from the edge nearest the battery. Don't try to remove it fully, as it's still connected via a small flex cable.

Step 28





• While holding the bracket out of the way, use the point of a spudger to pry up and disconnect the flex cable underneath.



• Remove the bracket.

Step 30





• Remove the 2.1 mm Y000 screw securing the speaker connector cover.



• Remove the speaker connector cover.

Step 32



• Use the tip of a spudger to pry up and disconnect the speaker connector.



- ⚠ When prying up the speaker, take care not to damage the flex cable you just disconnected. If necessary, hold it to one side so the speaker has room to come out.
- Insert a spudger under the top edge of the speaker near the edge of the iPhone's case.
- Gently pry up and lift the top edge of the speaker.
- When reinstalling the speaker, check the position of the flex cable and make sure it doesn't get trapped underneath the speaker.



- Hold the speaker by its side edges and rock it side-to-side, separating the adhesive securing it to the bottom edge of the iPhone.
- Pull the speaker away from the bottom edge of the iPhone until the adhesive gasket separates.

Step 35



Remove the speaker.

Step 36 — Replace the speaker gasket







- The speaker's gasket is not reusable. During reassembly, follow this step to replace the gasket.
- Use tweezers to peel off and remove all the old gasket from the frame and speaker.
- Use a microfiber cloth and isopropyl alcohol to clean all the gasket's adhesive residue from the frame and speaker.
- *Before* installing the speaker gasket, find its proper orientation on the bottom of the speaker—the <u>large cutout on the gasket</u> should go around the <u>speaker grille mesh</u>.
- Remove the larger, clear liner from the gasket and use tweezers to carefully put the gasket into place on the bottom of the speaker.
- To avoid touching the exposed adhesive, only grip the gasket by the <u>outer edges of the liner</u>.
- Use your fingers or a spudger to firmly press the gasket into place to secure it with the adhesive.
- Remove the remaining liner and put the speaker into place, making sure the <u>speaker</u> <u>connector</u> doesn't get stuck underneath.

Step 37 — Taptic Engine

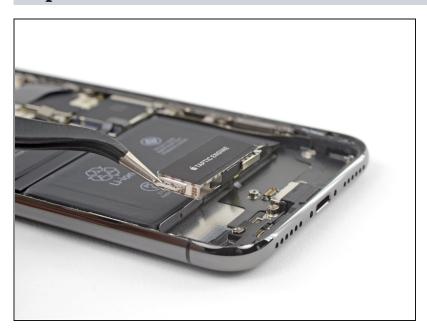


• Remove the 2.3 mm Phillips screw securing the Taptic Engine.

Step 38



• Use a spudger to disconnect the Taptic Engine flex cable by prying it straight up from its socket.



• Remove the Taptic Engine.

Step 40 — Battery



- (i) The iPhone X's battery is secured to the rear case by four pieces of stretch-release adhesive—one on the top cell, and three on the bottom.
- Each piece of adhesive has a black pull-tab at the end, which is lightly adhered to the side edge of the battery.



- Separate the first battery adhesive tab from the bottom edge of the battery.
- (i) Each tab has a small loop in the center; insert a tool through the loop if you're having trouble grabbing hold of the tab.
- ⚠ Don't jab the battery with any sharp tools. A punctured battery may leak dangerous chemicals or catch fire.

Step 42



 Repeat the above step to separate the remaining two adhesive tabs from the bottom edge of the battery.

Take care not to damage the speaker cable connector just below the center adhesive tab.



- in the following steps, you'll pull each tab to slowly stretch out the adhesive underneath the battery. This special stretch-release adhesive loses its tack when stretched and then comes out in your hand, allowing you to lift out the battery with ease.
- ⚠ If the strips break, don't panic! They don't always work as intended. Keep reading for some additional steps for removing broken strips.
- To increase your odds of success:
 - Don't press down on the battery. Hold the iPhone firmly by its sides.
 - Keep the strips flat and unwrinkled as you pull.
 - Pull *very slowly*, giving the strip time to stretch and separate. It takes around 15-30 seconds of stretching to remove each strip.
 - Pull at a low angle so the strip doesn't snag along the bottom edge of the battery.
- If a strip does break off underneath the battery and cannot be retrieved, move on to the other strips and then continue with the additional steps below.



- Grab one of the outer battery adhesive tabs and slowly pull it away from the battery, toward the bottom of the iPhone.
- Pull steadily, maintaining constant tension on the strip until it slips out from between the battery and the rear case.
- (i) The strip will stretch to many times its original length. Continue pulling and re-grab the strip near the battery if necessary.
- (i) If the battery adhesive tabs break during the removal process, use your fingers or blunt tweezers to retrieve the remaining length of adhesive, and continue pulling.
- The first of the adhesive strips break underneath the battery and cannot be retrieved, try to remove the remaining strips, and then proceed as instructed below.

Step 45



 Repeat the previous step to remove the strip on the opposite side, leaving the center strip for last.



• Remove the center strip, being careful not to snag it on the speaker flex cable.

Step 47



⚠ The final pull tab lies very close to the Face ID hardware. If damaged, Face ID can only be repaired by Apple, so work with care.

• Peel and separate the pull tab on the final adhesive strip, on the top edge of the upper battery cell.







- Pull and remove the final adhesive strip.
- The strip may fling the battery when it separates from the iPhone, so hold your hand over the battery to secure it—but don't press down on the battery itself, or the added pressure may cause the adhesive strip to break off underneath the battery.
- If you removed all four adhesive strips successfully, skip the next step.
- (i) If the adhesive breaks off underneath the battery and can't be retrieved, apply a few drops of high concentration (over 90%) isopropyl alcohol under the edge of the battery in the area of the broken adhesive strip(s).
 - Wait about one minute for the alcohol solution to weaken the adhesive. Use the flat end of a spudger to gently lift the battery.
 - ⚠ Don't try to forcefully lever the battery out. If needed, apply a few more drops of alcohol to further weaken the adhesive. Never deform or puncture the battery with your pry tool.
 - ⚠ Be careful not to damage the ribbon cables or the wireless charging coil directly underneath the battery.
- (i) For alternative methods to unstick the battery from the case, **continue to the next step below.**

Step 49 — Alternative method to unstick the battery from the case





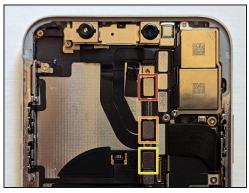
- If any of the adhesive strips broke off and the battery remains stuck to the rear case, prepare an iOpener or use a hair dryer to heat the rear case directly behind the battery.
 Heat the iPhone until the rear case is slightly too hot to comfortably touch. Don't overheat the iPhone, or you may accidentally ignite the battery.
- Flip the iPhone back over and thread a strong piece of string (such as dental floss or a length of thin guitar string) underneath the battery.
 - Wrap the ends of the string around a cloth (or wear gloves) to protect your fingers.
- Pull the string from side to side in a sawing motion all along the length of the battery to separate the adhesive. This can take some time since the adhesive is slow to deform, but with patience it will come free. **Do not deform or damage the battery.**

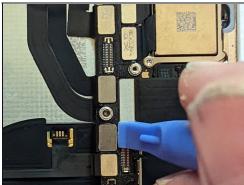
⚠ If you choose to use pry tools to lift the battery out of the iPhone, use extreme caution or you may damage the ribbon cables or the wireless charging coil directly underneath the battery.

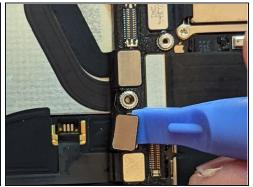


- Grasp the battery from the bottom edge and remove it from the iPhone.
- If there's any alcohol solution remaining in the phone, carefully wipe it off or allow it to air dry before installing your new battery.
- Reinstall the Taptic Engine and speaker before installing a new battery. This helps keep the battery aligned correctly during installation.
- Before you adhere the replacement battery, temporarily reconnect the battery connector to the logic board socket. This ensures that the battery is properly aligned in its recess.
 - Adhere the battery, disconnect it, and continue reassembling your device.
- If your new battery does not come with adhesive preinstalled, refer to this guide for help replacing the adhesive strips.
- Perform a <u>force restart</u> after reassembly. This can prevent several issues and simplify troubleshooting.

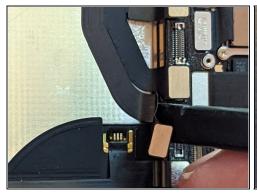
Step 51 — **Front Camera Assembly**







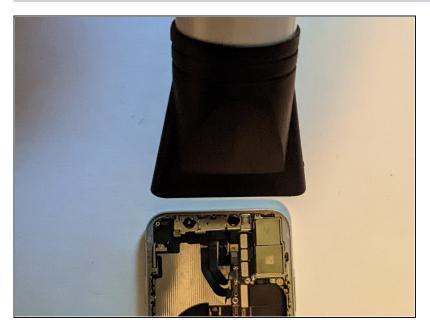
- Using the flat end of a spudger, disconnect the three front camera assembly cables:
 - The dot projector.
 - The front camera.
 - The infrared camera.







- *i* The camera cables are lightly adhered to the midframe.
- Using the tip of a spudger, start at the connector and slide the spudger between the IR camera cable and the case to separate the cable from the case.
- Repeat for the front camera cable.



 Apply heat to loosen the adhesive on the front camera assembly.

Step 54

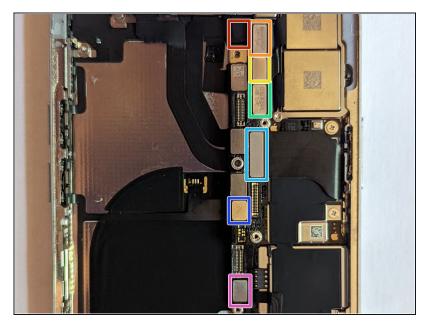






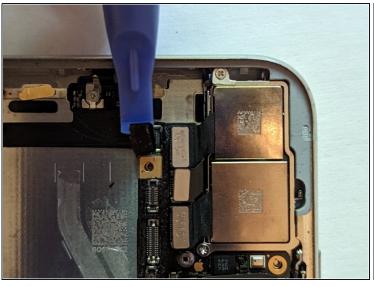
Remove the front camera assembly.

Step 55 — Logic Board



- Disconnect the following cable connectors.
 - The WiFi Antenna connector.
 - The Wide-Angle Camera connector.
 - The Power Button / Flash / Microphone connector.
 - The Telephoto Camera connector.
 - The Dock Flex connector.
 - The Button / Wireless Charging connector.
 - The Cellular Antenna connector.

Step 56 — WiFi Antenna Connector





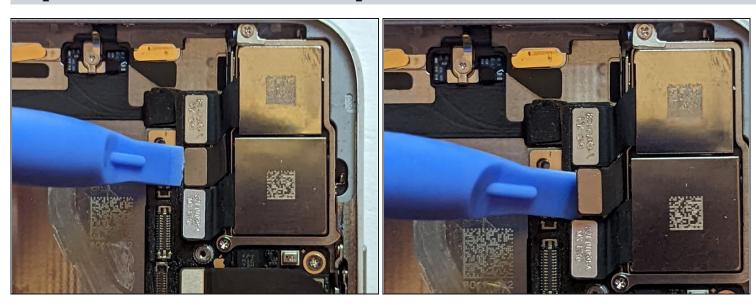
• Disconnect the WiFi Antenna cable connector.

Step 57 — Wide-Angle Camera Connector



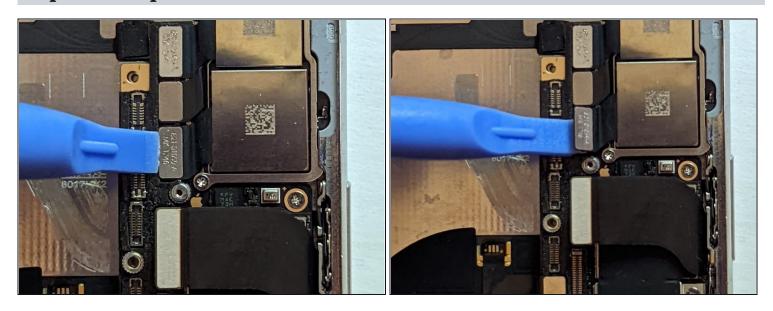
• Disconnect the Wide-Angle Camera cable connector.

Step 58 — Power Button / Flash / Microphone Connector



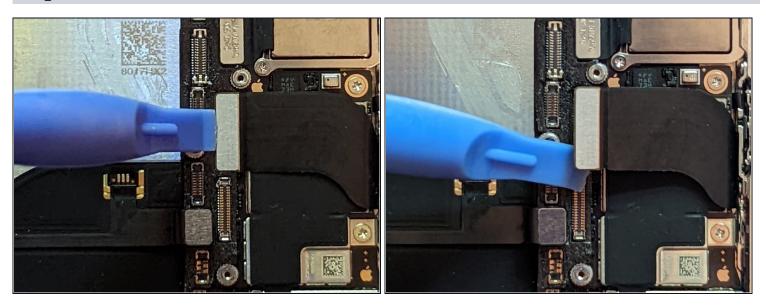
• Disconnect the Power Button / Flash / Microphone cable connector.

Step 59 — **Telephoto Camera Connector**



• Disconnect the Telephoto Camera cable connector.

Step 60 — Dock Flex Connector



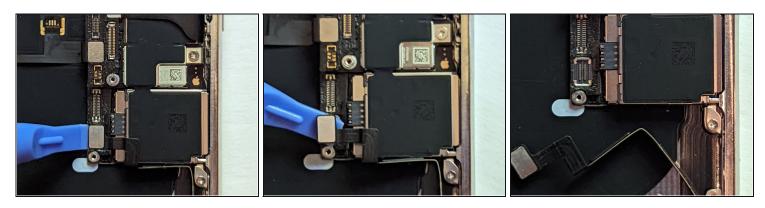
- Disconnect the Dock Flex cable connector.
- Bend the cable 90 degrees straight up to allow clearance to remove the logic board.

Step 61 — **Button / Wireless Charging Connector**



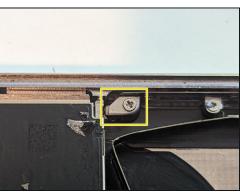
• Disconnect the Button / Wireless Charging cable connector.

Step 62 — Cellular Antenna Connector



- Disconnect the Cellular Antenna cable connector.
- Bend the cable out of the way.

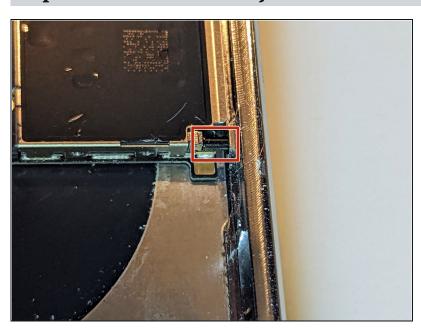




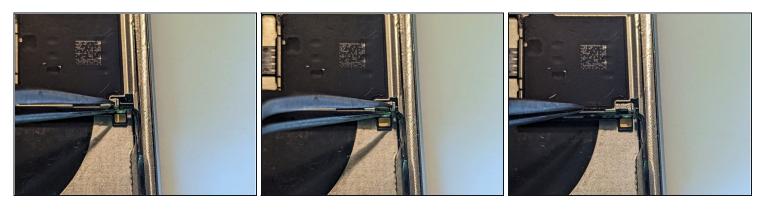


- The logic board cannot be removed with the SIM card tray in place. If you failed to remove it earlier, take it out now.
- Remove the two Phillips mounting screws.
 - One 2.7 mm Phillips screw.
 - One 2.1 mm Phillips screw.
- Remove the 2.0 mm Phillips grounding screw.
- Remove the grounding tab.
 - i Be sure to replace the metal grounding tab in the same orientation.

Step 64 — Retract the SIM Eject Pin

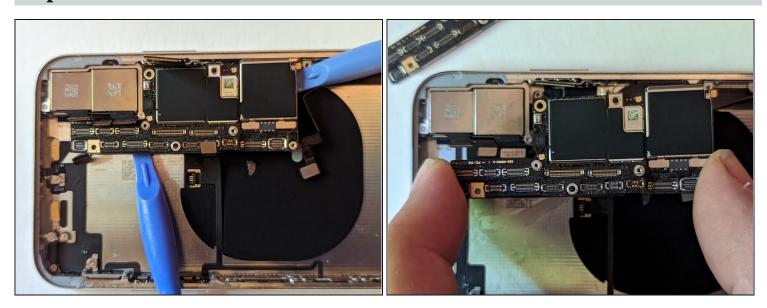


• When the SIM card is ejected, a pin slides out from the frame and pushes on the eject lever in the SIM card carrier. The pin needs to be pushed back into the frame so it will not block the removal of the logic board.



- Use a pair of fine tip <u>tweezers</u> to slide the SIM card eject lever toward the side of the case.
- The eject lever should look like this when you're done. The pin will no longer block the removal of the logic board.

Step 66



• The logic board assembly is mounted on two posts going through the lower board and are secured to the upper board. In order to remove it, you must lift it evenly straight up to clear the stand-offs.

Step 67 — Rear-Facing Cameras



- Remove two Phillips screws securing the camera bracket, of the following lengths:
 - One 2.3 mm screw
 - One 2.0 mm screw

Step 68



• Use <u>tweezers</u> to gently fold the small metal grounding bracket out of the way. Do not pull up on it as it is connected to a fragile flex cable.







- Lift the camera bracket from the edge closest to the battery, and remove it.
- To reinstall the camera bracket, follow the images exactly in reverse: first, lower the outside edge until the tab on the right side slots into the gap between the phone's case and the camera module. Then, hinge the bracket down over the camera module.

Step 70







 Use an opening tool or fingernail to disconnect the two camera connectors by prying them straight up from their sockets.



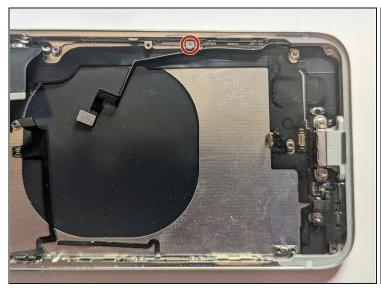
- Press the point of a spudger against a small notch on the bottom right corner of the camera module.
- Gently pry up to lever the camera out of the iPhone.

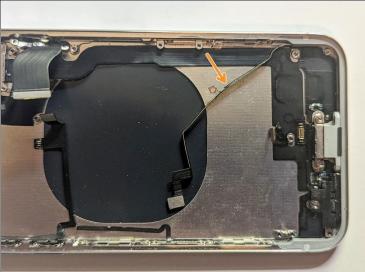
Step 72



• Remove the rear-facing camera module.

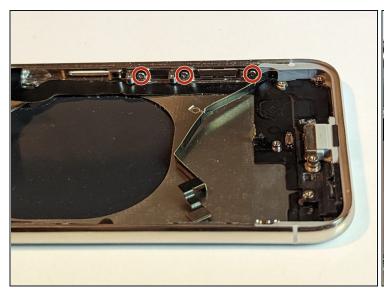
Step 73 — Bottom Right Screen Retainer

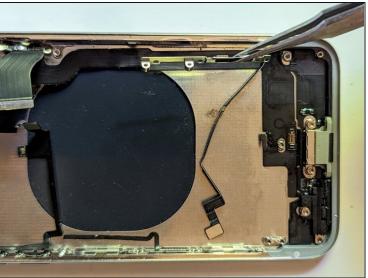




- Remove the 1.2 mm Y000 screw securing the cellular antenna cable to the screen retainer.
- Bend the antenna cable away from the side of the case to allow access to the screws securing the retainer to the side of the case.

Step 74

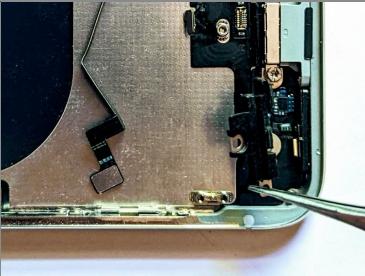




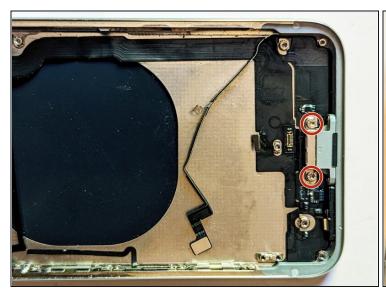
- Remove the three 1.5 mm Phillips screws holding the screen retainer.
- Remove the retainer.

Step 75 — **Lightning Connector**





- Remove the 2.3 mm stand-off screw holding the barometric vent.
- (i) Standoff screws are best removed using a <u>standoff screwdriver</u> 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.
- Remove the barometric vent.





- Remove two 2.6 mm stand-off screws securing the Lightning connector to the back of the case.
- Remove two 2.9 mm Phillips screws holding the charging port to the bottom of the case.

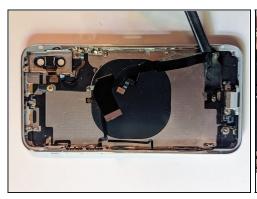
Step 77







- To soften the adhesive holding the flex cable to the case, heat it with a hot air gun or a hair dryer, or heat the back of the case with an iOpener.
- Peel up the dock connector cable with a spudger.

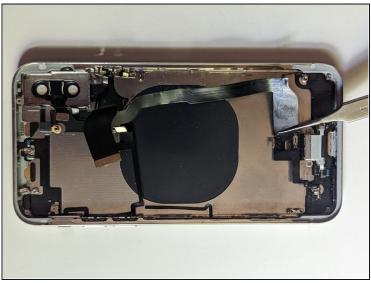


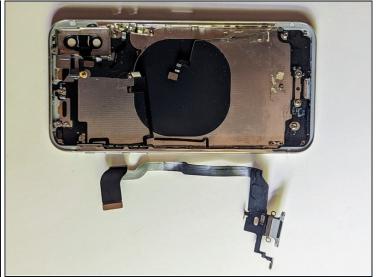




• Continue peeling up the dock connector.

Step 79





• Remove the dock connector.

Step 80 — **Interconnect Cable**





- *i* After removing the Lightning connector, the only thing holding the interconnect cable to the case is adhesive.
- To soften the adhesive holding the flex cable to the case, heat it with a hot air gun or a hair dryer, or heat the back of the case with an iOpener.

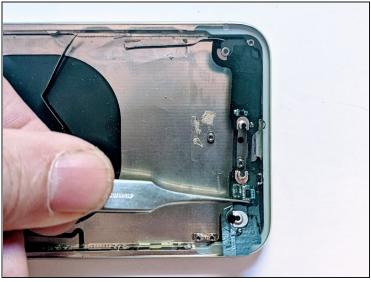
Step 81

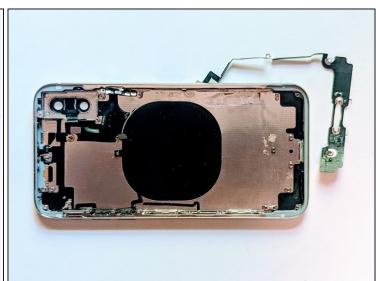






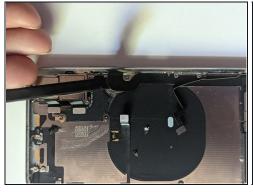
• Peel off the cable with a spudger.





• Remove the interconnect cable.

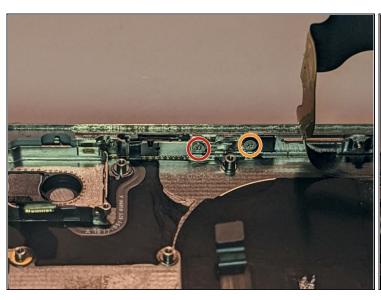
Step 83 — Upper Right Screen Retainer







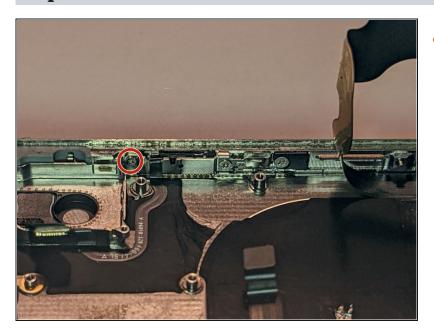
- Peel up the end of the dock connector to clear access to the power button and screen retainer.
- Bend the dock connector up and out of the way.





- Remove the two screws holding the screen retaining clip.
 - One 2.1 mm Phillips screw.
 - One 1.9 mm Phillips screw.
- Remove the screen retainer.
- When reassembling the retainer, be sure to slide it behind the black plastic piece on the end opposite the power button.

Step 85 — Power Button and Flash Cable



Remove the remaining 2.0 mm
 Phillips screw securing the power button.

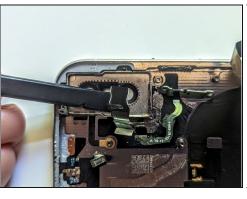
Step 86







• Peel the flex cable from the frame.







- With a spudger, pry out the flash and microphone.
- Remove the assembly.

Step 88 — **Volume Button Assembly**



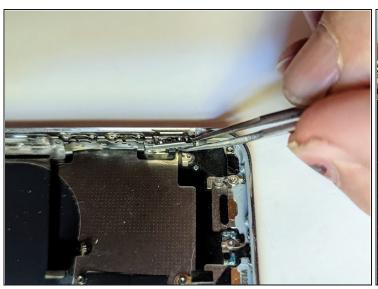


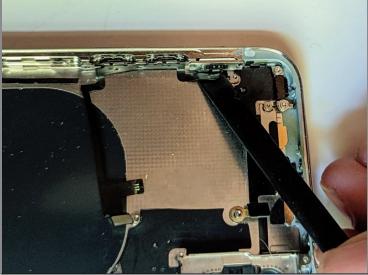
- Remove the 1.4 mm Phillips screw holding the grounding tab.
- Remove the grounding tab.
- ▶ Note the orientation of the tab and be sure to place it correctly during reassembly.



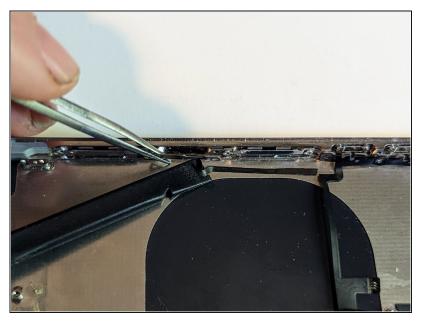
- Remove the six screws securing the buttons.
 - Two 1.5 mm Phillips.
 - Two 1.9 mm Phillips.
 - One 2.4 mm Phillips.
 - One 1.7 mm Phillips.

Step 90



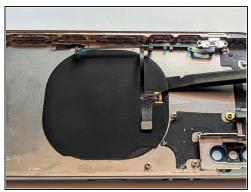


- Disengage the ring/silent switch from the side of the case.
- Use a spudger to peel the flex cable from the bottom of the case.

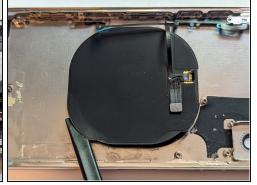


- Heating the case with an iOpener or the cable with a hot air gun or hair dryer will help soften the adhesive and make it easier to remove.
- Peel off the button cable.
 - ⚠ If you are planning on reusing the button / charging coil assembly, use extreme care when removing this cable. It is extremely thin and very fragile. Work slowly and carefully and put as little stress on the cable as possible.
 - Hold on to the cable with tweezers while lifting and sliding the spudger between the cable and the case.

Step 92 — Charging Pad / Volume Button Assembly







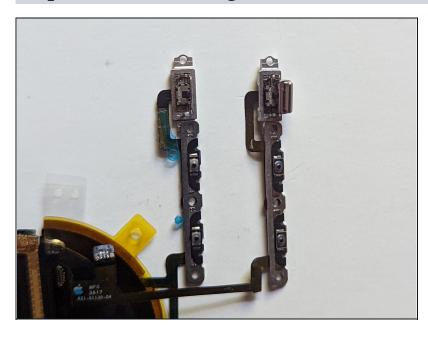
- Heat the back of the phone with an iOpener or the coil with a hot air gun or hair dryer to soften the adhesive and make it easier to remove.
- Peel off the wireless charging coil.





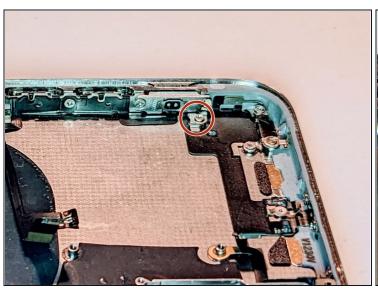
• Remove the assembly.

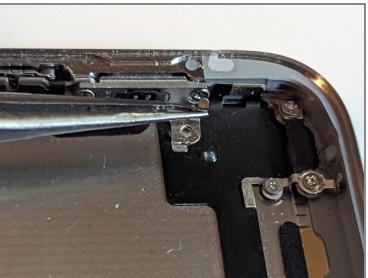
Step 94 — Move the Ring/Silent Switch



- If you are replacing the button assembly, you will need to transfer the ring/silent switch from the old assembly to the new one.
- i See the iPhone X Power and Audio Exterior Buttons guide for instructions on how to remove the exterior switch from the button assembly.

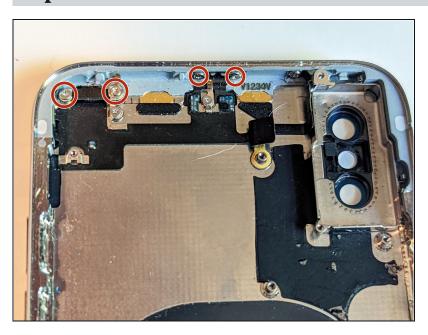
Step 95 — WiFi Antenna



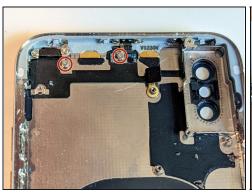


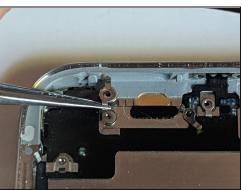
- Remove the 1.4 mm Phillips screw holding the first grounding tab.
- Remove the grounding tab.
- ▶ Note the orientation of the tab and be sure to place it correctly during reassembly.

Step 96



Remove four 1.5 mm Phillips screws.





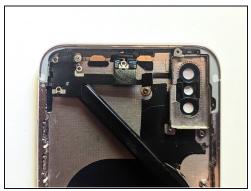


- Remove two 1.1 mm Y000 screws.
- Remove the two grounding tabs.
 - (i) Note the orientation of the tabs and be sure to place them correctly during reassembly.

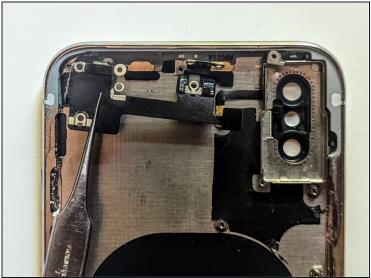
Step 98

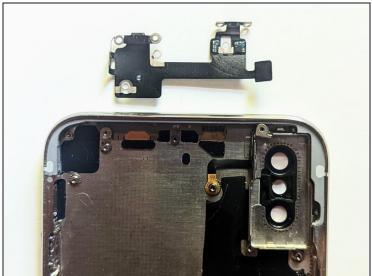






- Heat the back of the case with an iOpener, or the WiFi antenna with a hot air gun or hair dryer.
- Peel the WiFi antenna from the case with a spudger.

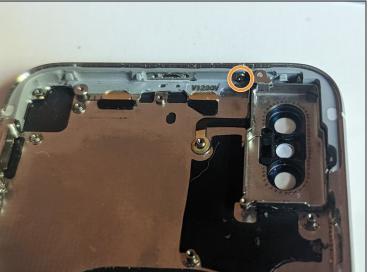




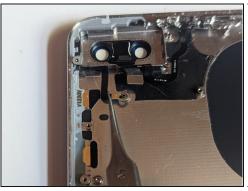
• Remove the WiFi antenna.

Step 100 — Bluetooth Antenna





- Remove the 2.3 mm Phillips screw securing the antenna to the rear camera frame.
- Remove the 1.5 mm Phillips screw securing the antenna to the case.

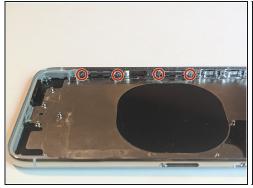


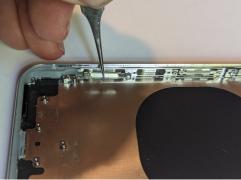




- Lift the end of the cable off the post on the back of the case.
- Peel the cable from the rear camera housing with a spudger.
- Remove the bluetooth antenna.

Step 102 — Front Panel Screen Retainers

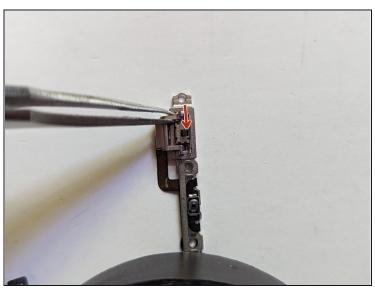


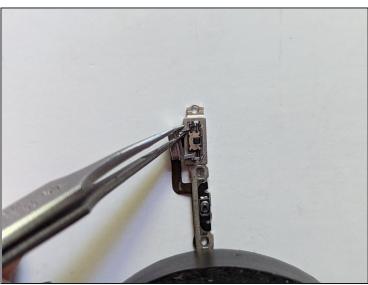




- Remove the four 1.5 mm Phillips screws holding the two left side screen retainer clips.
- Remove the two retainers.

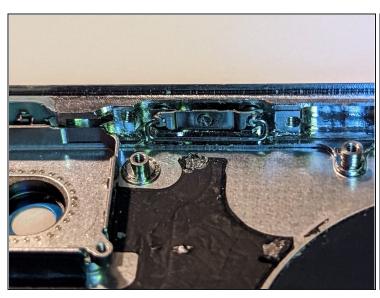
Step 103 — Remove the Ring/Silent Switch





- Flip the switch to the left.
- Grasp the upper arm of the switch with fine tip <u>tweezers</u> and slide it down to clear the retainer.
- Lift the end up and slide it out from the other side.
- *i* On reassembly, the orange stripe should be on the top side as pictured here.

Step 104 — Remove the Button Spring Clips





- (i) Before you start trying to take these apart, go watch this <u>video</u> mentioned in the introduction. Removing these buttons is tricky and frustrating, so study the video carefully and try and follow iPhoneRepairGirl's instructions as exactly as you can.
- (i) While removing the spring clips and retainers, it is helpful to keep a finger on the outside of the button to keep it as far inside the frame as possible.
- Flip the spring clip up 90 degrees.







- Grasp one end of the spring clip with a pair of tweezers.
- Firmly pull on the end of the clip until it is free of the button.
- Swing the clip out slightly from the button.
- Slide the clip back the opposite direction to free the other end.
- Remove the spring clip.
- Repeat for the volume up and down buttons.

Step 106 — Remove the Button Retaining Plate







- Pry the right side of the retainer up about 20 degrees.
- Pull the retainer straight out away from the button.
- Rinse and repeat.
- When reassembling the retainers, make sure the retainer is all the way down; the gap at the bottom should be even across the length of the button.

Step 107 — Remove the Volume and Power Buttons

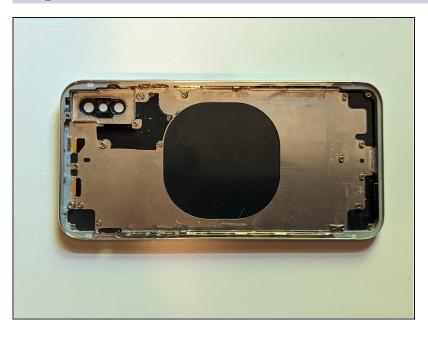






- If you can't get hold of the button from the outside of the case, push the pins out from the inside.
- Remove the button.
- Repeat for the remaining buttons.
- Before attempting to reassemble the buttons, go watch the video again. If you thought it was a pain to take them apart, wait until you try to put them back together. Be patient and work carefully and they'll eventually fit.

Step 108 — Rear Case



 The case has been stripped completely of all parts. You can now replace them into a new case.

