



iPad 4 GSM Rear Facing Camera Replacement

Use this guide to replace the rear-facing camera.

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INTRODUCTION

Use this guide to replace the rear-facing camera.

TOOLS:

[SIM Card Eject Tool](#) (1)
[iOpener](#) (1)
[Phillips #00 Screwdriver](#) (1)
[Phillips #0 Screwdriver](#) (1)
[Spudger](#) (1)
[Tweezers](#) (1)
[iFixit Opening Picks \(Set of 6\)](#) (1)
[iFixit Opening Tool](#) (1)

PARTS:

[iPad Retina Adhesive Strips](#) (1)
[iPad 3/4 Rear Camera](#) (1)

Step 1 — iOpener Heating



-  We recommend that you clean your microwave before proceeding, as any nasty gunk on the bottom may end up stuck to the iOpener.
- Place the iOpener in the center of the microwave.
-  **For carousel microwaves: Make sure the plate spins freely. If your iOpener gets stuck, it may overheat and burn.**

Step 2



- Heat the iOpener for **thirty seconds**.
- Throughout the repair procedure, as the iOpener cools, reheat it in the microwave for an additional thirty seconds at a time.

⚠ Be careful not to overheat the iOpener during the repair. Overheating may cause the iOpener to burst. Do not attempt to heat over 100°C (212°F).

⚠ Never touch the iOpener if it appears swollen.

⚠ If the iOpener is still too hot in the middle to touch, continue using it while waiting for it to cool down some more before reheating. A properly heated iOpener should stay warm for up to 10 minutes.

Step 3



- Remove the iOpener from the microwave, holding it by one of the two flat ends to avoid the hot center.

⚠ The iOpener will be very hot, so be careful when handling it. Use an oven mitt if necessary.

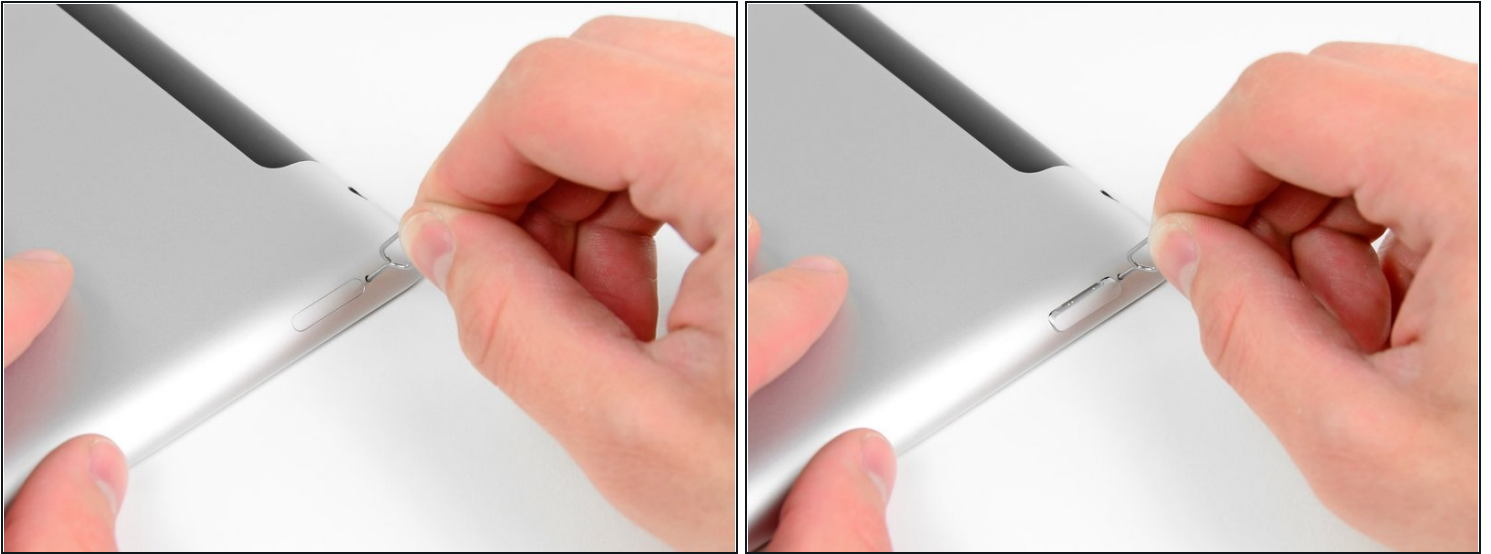
Step 4 — Alternate iOpener heating method



ⓘ If you don't have a microwave, follow this step to heat your iOpener in boiling water.

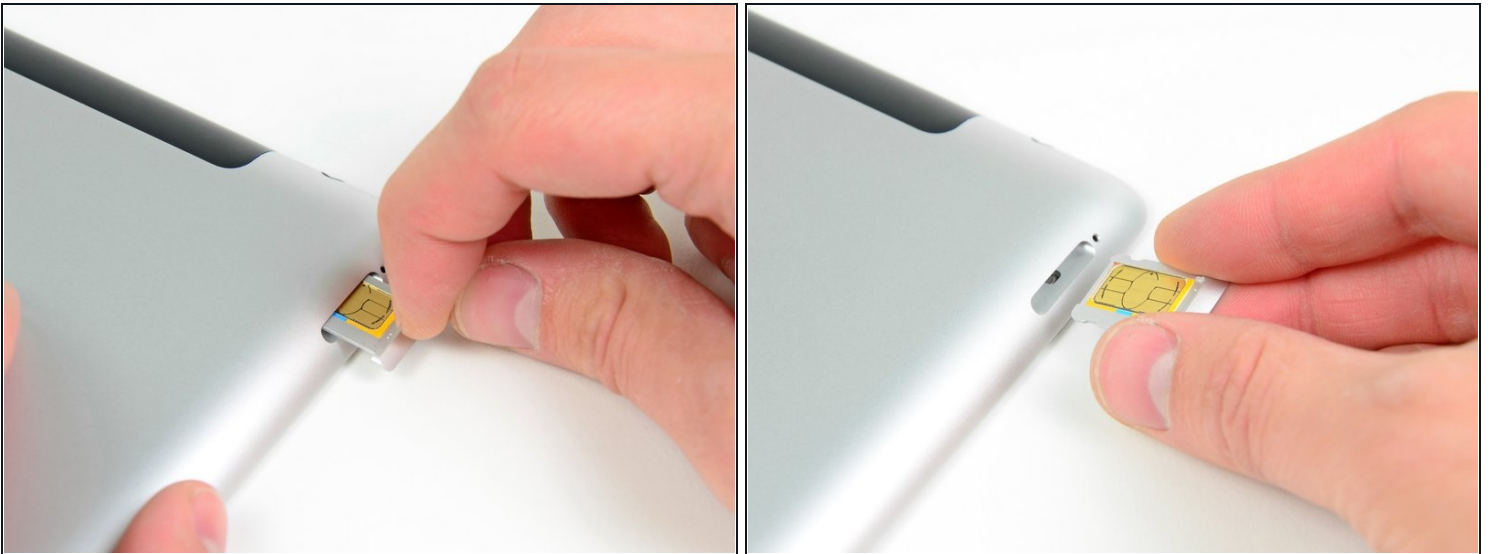
- Fill a pot or pan with enough water to fully submerge an iOpener.
 - Heat the water to a boil. **Turn off the heat.**
 - Place an iOpener into the hot water for 2-3 minutes. Make sure the iOpener is fully submerged in the water.
 - Use tongs to extract the heated iOpener from the hot water.
 - Thoroughly dry the iOpener with a towel.
- ⚠ The iOpener will be very hot, so be careful to hold it only by the end tabs.
- Your iOpener is ready for use! If you need to reheat the iOpener, heat the water to a boil, turn off the heat, and place the iOpener in the water for 2-3 minutes.

Step 5 — SIM Tray



- Use a SIM eject tool or an uncoiled paperclip to eject the SIM tray.

Step 6



- Pull the SIM tray out of its slot and remove it from the iPad.
- ☒ If replacing the SIM card, pop it out of its tray and install the new one.

Step 7 — Front Panel



- If your display glass is cracked, keep further breakage contained and prevent bodily harm during your repair by taping the glass.
- Lay overlapping strips of clear packing tape over the iPad's display until the whole face is covered.
 - ⓘ This will keep glass shards contained and provide structural integrity when prying and lifting the display.
- Do your best to follow the rest of the guide as described. However, once the glass is broken, it will likely continue to crack as you work, and you may need to use a metal prying tool to scoop the glass out.

⚠ Wear safety glasses to protect your eyes, and be careful not to damage the LCD screen.

Step 8



⚠ Again, as you may find yourself working with broken glass during this procedure, we strongly recommend wearing [safety glasses](#) for protection from flying shards.

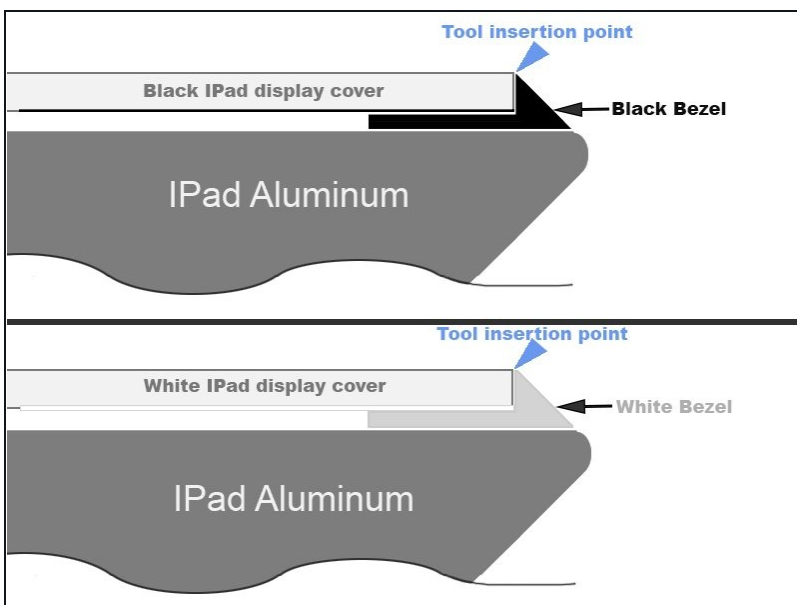
- Lay the iOpener flat on the right edge of the iPad, smoothing it out so that there is good contact between the surface of the iPad and the iOpener.
- Let the bag sit on the iPad for approximately 90 seconds before attempting to open the front panel.

Step 9



- There is a small gap in the iPad's adhesive ring in the upper right corner of the iPad, approximately 2.0 inches (~5 cm) from the top of the iPad. You are going to exploit this weakness.
- Align the tool with the mute button. Insert the tip of a plastic opening tool into the gap between the front glass and the plastic bezel. Just insert the very tip of the opening tool, just enough to widen the crack.
- ⓘ It may require some force to get the wedged tip of the opening tool between the glass and plastic. Work patiently and carefully, wiggling the plastic opening tool back and forth as necessary.

Step 10



- Make sure you place the tool in the proper spot—between the plastic display bezel and the front panel glass.

Step 11



- Keeping the tip of the plastic opening tool wedged between the front glass and plastic bezel, slide a plastic opening pick in the gap, right next to the plastic opening tool.

Step 12



- Remove the plastic opening tool from the iPad, and push the opening pick further underneath the front glass to a depth of ~0.5 inches.

Step 13



- While you work on releasing the adhesive on the right side of the iPad, reheat the iOpener, and replace it on the bottom edge of the iPad.

Step 14



- While the bottom edge is being heated by the iOpener, begin releasing the adhesive from the right edge of the iPad.
- Slide the opening pick down along the edge of the iPad, releasing the adhesive as you go.

⚠ The adhesive is very strong, and some serious force may be required. Work carefully.

- ⓘ If you can see the tip of the opening pick underneath the front glass, pull the pick out just a little bit. While using the opening pick this deep won't damage anything, it may get adhesive residue all over the LCD.

Step 15



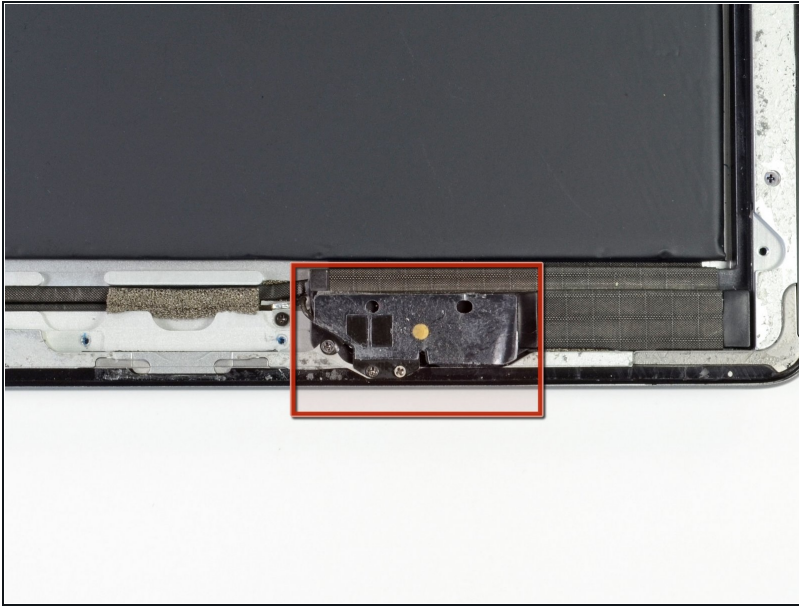
- ① It may be necessary to move the heated iOpener back onto the right edge of the iPad as you release the adhesive. This depends on how long the iPad has been able to cool while you were working on it.
- If the opening pick gets stuck in the adhesive, "roll" the pick along the side of the iPad, continuing to release the adhesive.

Step 16



- Before removing the first opening pick from the bottom corner of the iPad, insert a second pick under the right edge of the front glass to keep the adhesive from re-adhering.
- Re-heat the iOpener, and move it to the top edge of the iPad.

Step 17



★ The next few steps require extreme caution.

⚠ The Wi-Fi antenna is attached to the bottom right edge of the rear case of the iPad via screws and a cable. Because of the orientation of the Wi-Fi antenna, it is imperative to proceed with caution otherwise irreversible damage to the Wi-Fi antenna may result.

- You will have to release the adhesive securing the antenna to the front panel without damaging the delicate parts attaching the antenna to the bottom of the iPad. Follow the next steps carefully.

Step 18



- Slide the opening pick around the bottom right corner of the iPad, releasing the adhesive there.

⚠ Do not slide the pick further than the bottom right corner. You may damage the Wi-Fi antenna by doing so.

Step 19



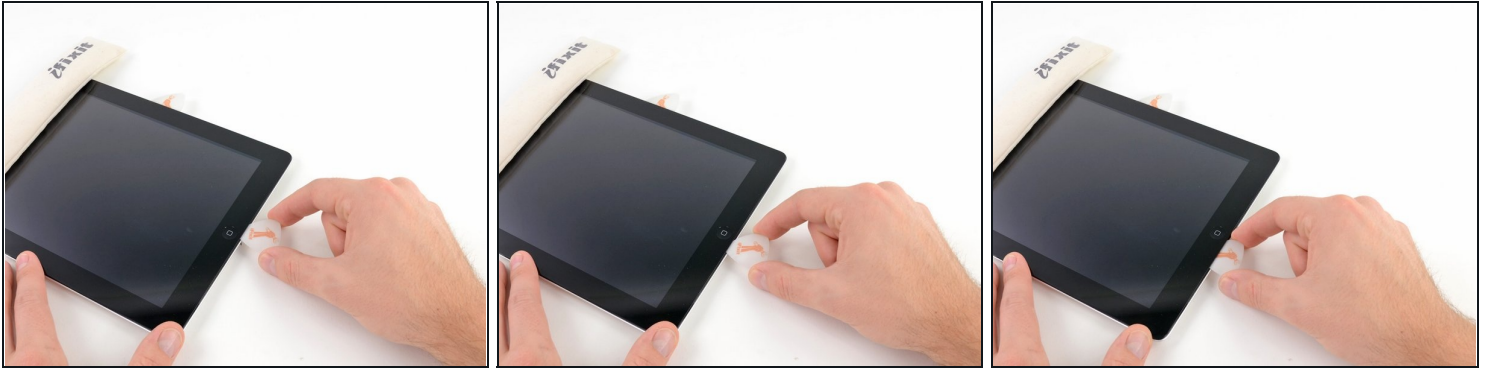
- ⚠ This step requires you to move the opening pick along the bottom right edge of the front panel. The Wi-Fi antenna is very close to the corner and is easily severed if the adhesive is released improperly.**
- i** Do not completely remove the pick from under the front glass, but pull it out just a little bit so that ~1/8" (3 mm) of the tip is still under the front glass.
- Slide the tip of the opening pick along the bottom edge of the iPad, releasing the adhesive over the Wi-Fi antenna.

Step 20



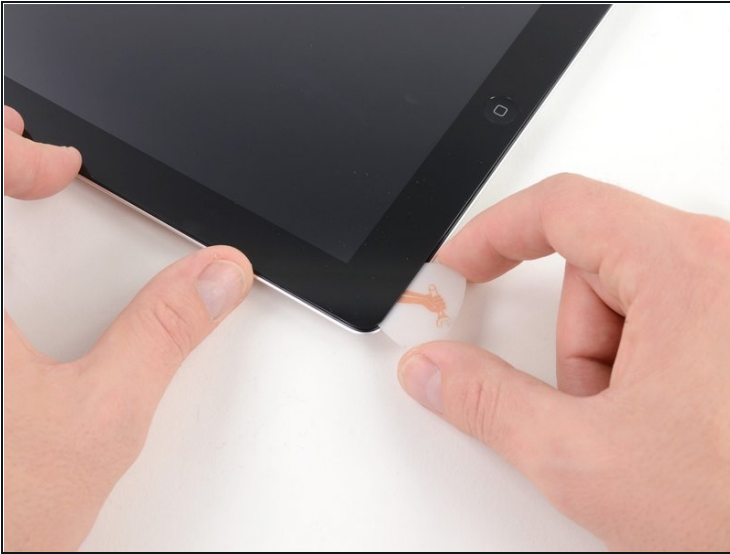
- Once you have moved past the Wi-Fi antenna (approximately 3" (75 mm) from the right edge, or right next to the home button) re-insert the opening pick to its full depth.
- Slide the pick to the right, releasing the adhesive securing the Wi-Fi antenna to the front glass.
- The antenna is attached to the bottom of the iPad via screws and a cable. This step detaches the antenna from the front panel, ensuring that when you remove the panel, the antenna will not be damaged.

Step 21



- Continue releasing the adhesive along the bottom of the iPad, pulling the opening pick out far enough to go around the home button, and re-inserting it to a depth of 1/2 inch (10 mm) once the pick is past the home button.
- ⓘ If the adhesive has cooled too much along the bottom edge, reheat the iOpener to warm the adhesive where you are working.
- ⚠ Do not heat the iOpener more than a minute at a time, and always allow at least two minutes before reheating it.

Step 22



- Continue releasing the adhesive all the way along the bottom edge of the iPad.
⚠ On iPad 4 models, insert the pick to a maximum depth of 1/2 inch (10 mm) in this area, to avoid damaging the home button ribbon cable.
- Leave the opening pick wedged underneath the front glass near the home button.

Step 23



- Reheat the iOpener in the microwave and set it on the left edge of the iPad to start warming the adhesive in that section.

Step 24



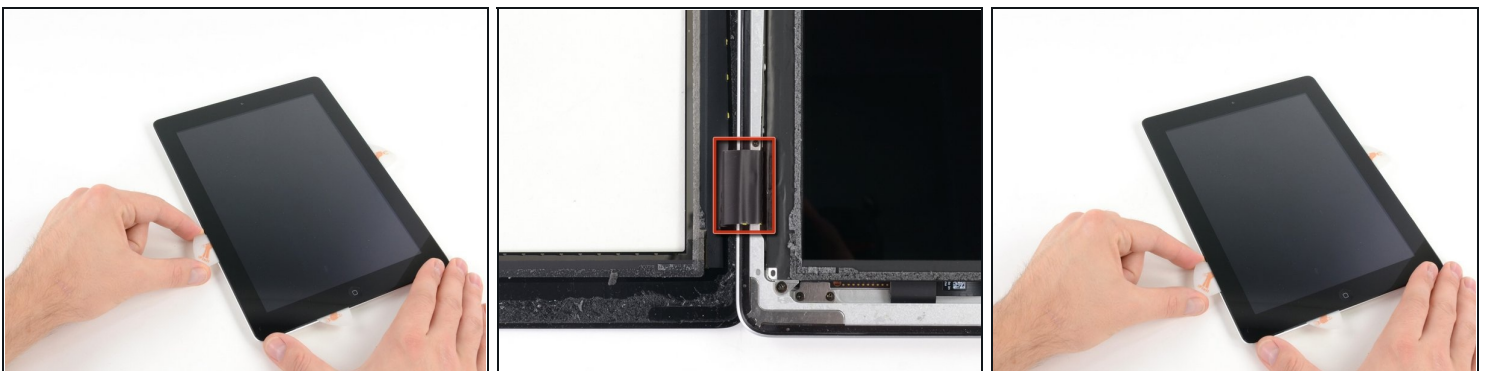
- Slide the opening pick along the top edge of the iPad, pulling it out slightly to go around the front-facing camera bracket.
- The adhesive along this section is very thick, and a fair amount of force may be required. Work carefully and slowly, making sure to not slip and damage yourself or your iPad.
- ⓘ If the adhesive has cooled too much, replace the iOpener along the top edge and continue working. If the iOpener has cooled too much, reheat it.
- ☑ If the opening pick is getting stuck in the adhesive, "roll" the pick as shown in [step 9](#).

Step 25



- Continue releasing the adhesive along the top edge of the iPad, and slide the opening pick around the top left corner.
- ⓘ If the adhesive is warm enough, remove the iOpener from the iPad for convenience. However, if the adhesive is still quite sticky, re-heat the iOpener and lay it on the left edge while you work.

Step 26



- Slide the opening pick along the left edge of the iPad, releasing the adhesive as you go. The adhesive is thin here due to the digitizer along the whole left side. Make sure the pick is not too deep (max 1/2 inch) 10 mm to prevent damaging the digitizer.

⚠ The digitizer cable is located approximately 2" (50 mm) from the bottom of the iPad. Stop sliding the pick when you get ~2.25" (60 mm) from the bottom of the iPad.

Step 27



- Using the opening pick that is still underneath the bottom edge of the iPad, release the adhesive along the bottom left corner.

⚠ The bottom of the digitizer cable is only ~1" (25 mm) from the bottom of the iPad. Work carefully and slowly, making sure to not sever this cable.

Step 28



- Using one of the opening picks, pry up the bottom right corner of the iPad and grab it with your fingers.
- ① Some of the adhesive along the perimeter of the iPad may have stuck back down again. If this is the case, slide a pick underneath the edge of the iPad where the front glass is still stuck and "cut" the adhesive.

Step 29



- Holding the iPad by the top and bottom right corners, rotate the front glass away from the iPad.

⚠ Be careful of any adhesive that may still be attached, and use an opening pick to cut any adhesive that may still be holding the front panel down.

- ☑ During reassembly use a [microfiber cloth](#) and compressed air to clean any dust or fingerprints off the LCD before reinstalling the glass.

Step 30 — Front Panel Assembly



- Remove the four 2 mm Phillips #00 screws securing the LCD to the aluminum frame.
- ⓘ The bottom left screw is obscured by the home button ribbon cable connector. Carefully move the home button ribbon cable aside to remove the bottom left screw.

Step 31



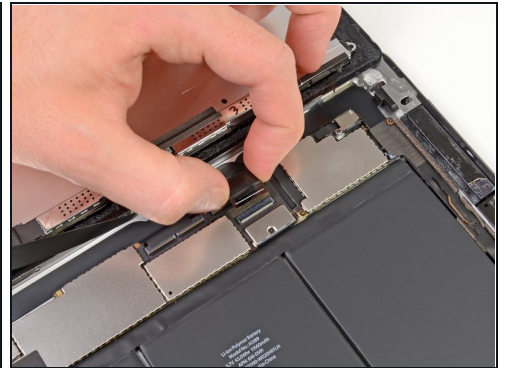
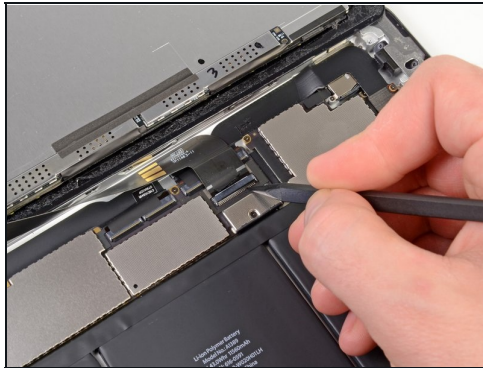
- Using a plastic opening tool or a spudger, lift the right edge of the LCD out of the iPad.
 - Rotate the LCD along its left edge and lay it down on top of the front glass panel.
- ⚠ Be careful as you move the LCD. The ribbon cable is fragile and may break if it is flexed too much.

Step 32 — LCD



- Using the tip of a spudger, peel back the piece of tape covering the LCD ribbon cable connector.

Step 33



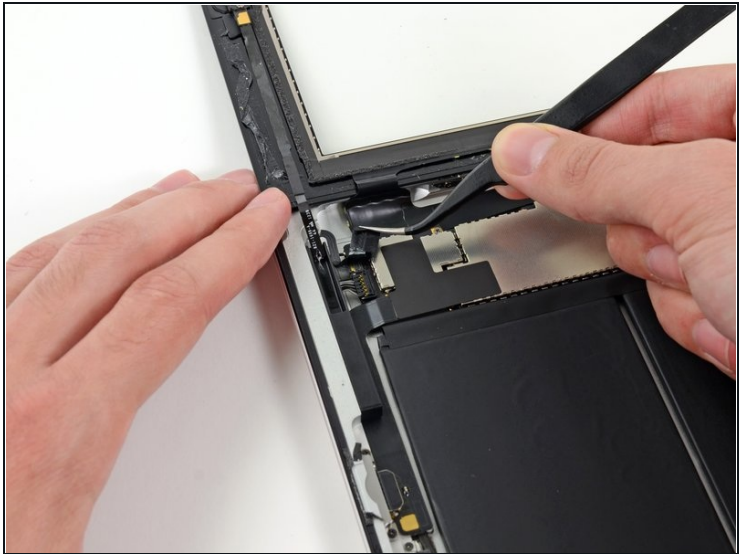
- Flip up the retaining flap on the LCD ribbon cable ZIF connector.
 - Using your fingers or a pair of [tweezers](#), pull the LCD ribbon cable from its socket on the logic board.
- ☒ You may have to force restart the iPad by holding down the power button and home button for at least ten seconds until you see the Apple logo if the LCD screen doesn't power on after connecting the ZIF connector for the LCD screen when putting everything back together.

Step 34



- Without touching the front of the LCD, lift the LCD off the front panel.

Step 35 — Front Panel Assembly



- ⓘ If present, remove the piece of electrical tape covering the Wi-Fi antenna, speaker cable, and home button ribbon cable.

Step 36



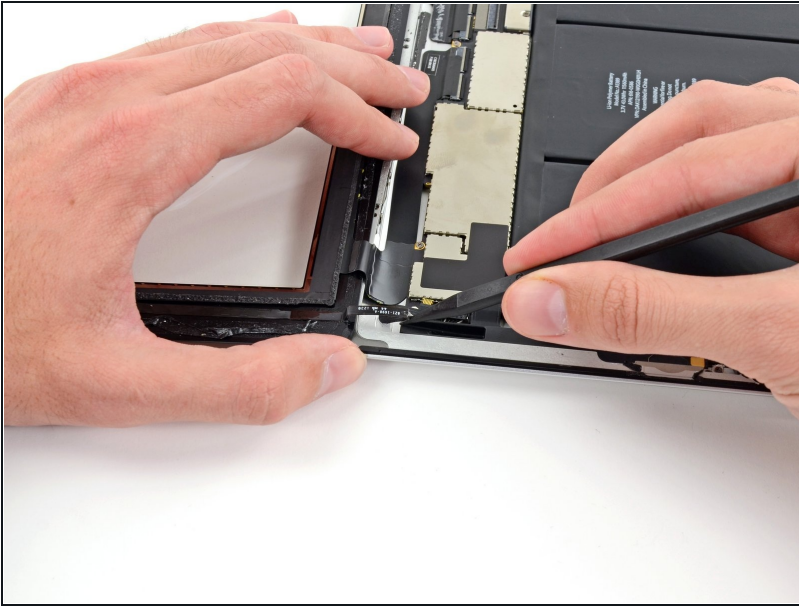
- Flip up the retaining flap on the home button ribbon cable ZIF connector.

Step 37



- Use a pair of [tweezers](#) to pull the home button ribbon cable straight out of its socket on the logic board.

Step 38



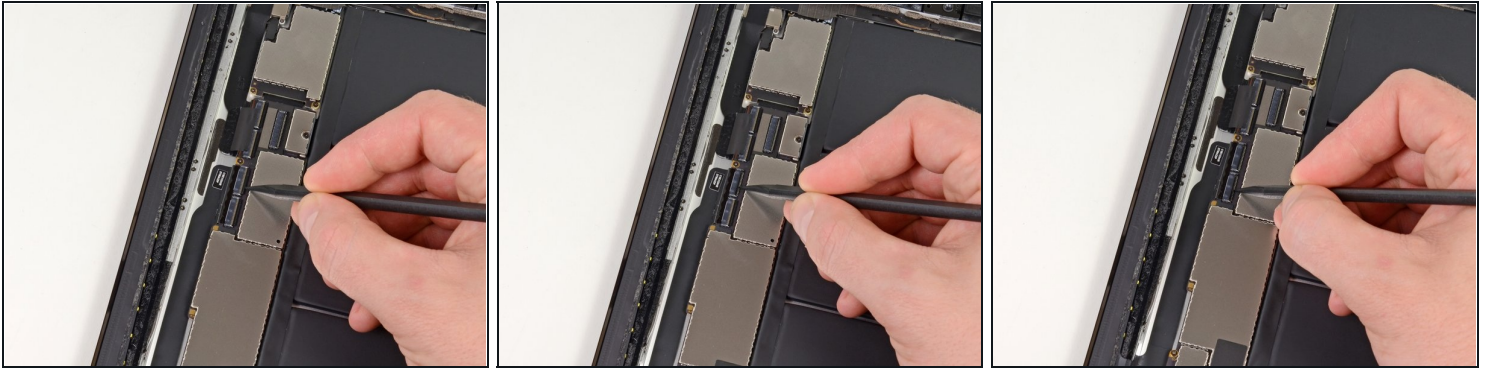
- De-route the home button ribbon cable from its recess in the rear case.

Step 39



- Using the tip of a spudger, peel back the piece of tape that secures the digitizer ribbon cable to the logic board.

Step 40



- Flip up the retaining flap on **both** of the digitizer ribbon cable ZIF connectors.

Step 41



- Use the flat end of a spudger to loosen the adhesive underneath the digitizer ribbon cable.
- Pull the digitizer ribbon cable straight out of its sockets on the logic board.

Step 42



- Peel back the digitizer ribbon cable and use the flat end of a spudger to release the adhesive securing the cable to the rear aluminum case.

Step 43



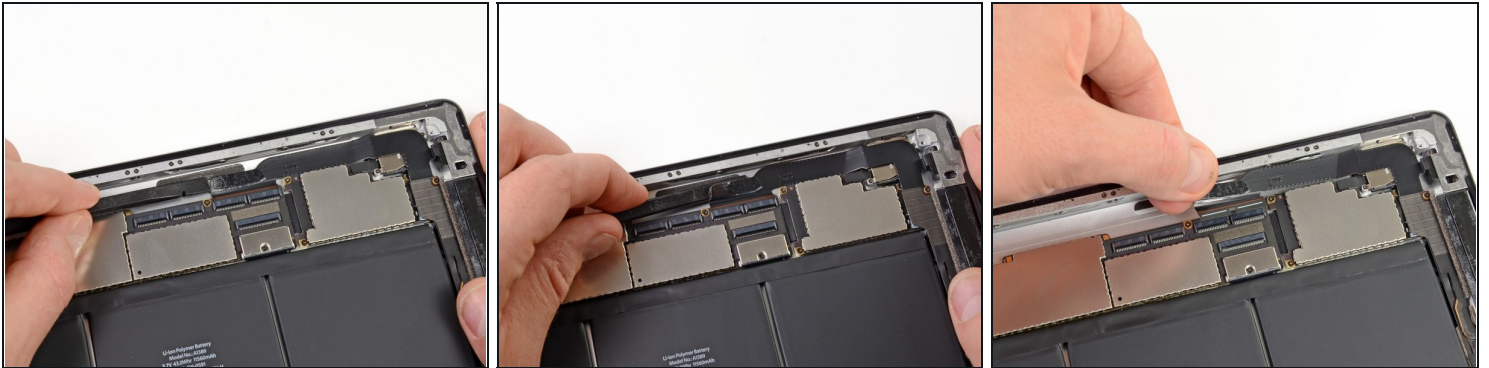
- Using your fingers, pull the digitizer ribbon cable out of its recess in the aluminum frame.
- Remove the front panel from the iPad.

Step 44 — Headphone Jack Cable



- Peel back and remove the piece of electrical tape covering the headphone jack assembly cable connector.
- Using the tip of a spudger, flip up the retaining flap on both of the ZIF connectors securing the headphone jack cable to the logic board.

Step 45



- Slide the flat end of a spudger underneath the headphone jack assembly cable, releasing the adhesive securing it to the rear aluminum frame.
- Pull the headphone jack assembly cable straight out of its socket on the logic board.

Step 46 — SIM Board Ribbon Cable



- Peel back and remove the piece of tape covering the SIM board cable ZIF connector.
- Flip up the retaining flap on the SIM board cable ZIF connector.
- Using the tip of a spudger, pull the SIM board cable straight out of its socket on the logic board.

Step 47 — SIM Board



- Remove the three 1.75 mm Phillips #00 screws securing the SIM board to the aluminum frame.

Step 48



- Holding the headphone jack assembly cable out of the way, remove the SIM board from the iPad.

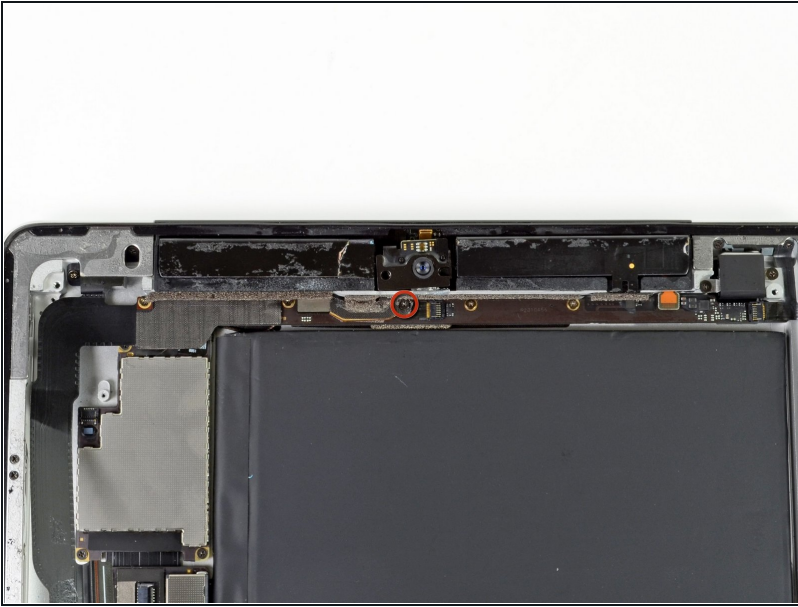
⚠ As you pull the headphone jack assembly cable out of the way, be careful not to pull too hard against the headphone jack, as you may tear it off.

Step 49 — Headphone Jack Assembly



- Peel back and remove the adhesive tape covering the headphone jack assembly.

Step 50



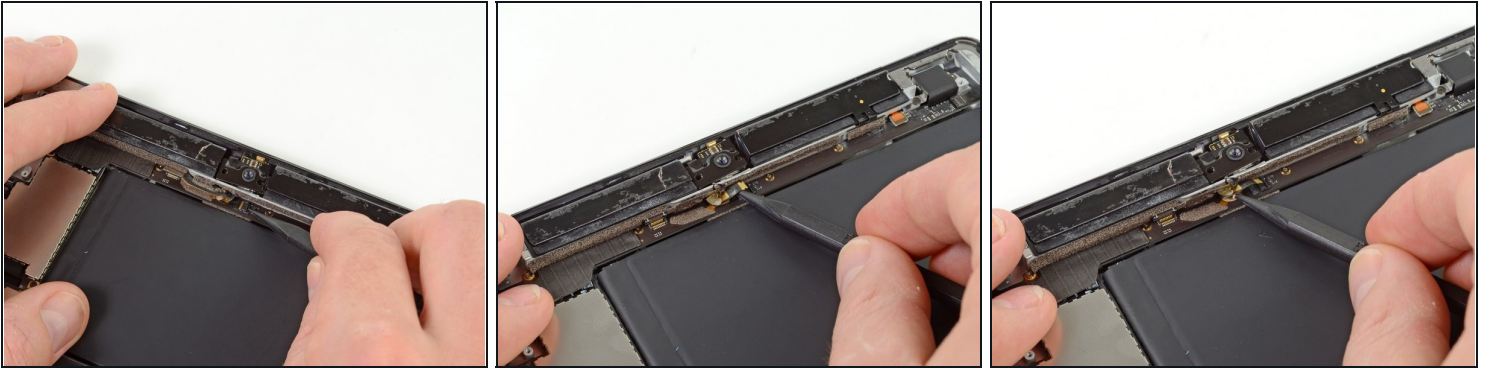
- Remove the single 2.6 mm Phillips #0 screw securing the camera cable to the headphone jack assembly.

Step 51



- Using the flat end of a spudger, pry the front-facing camera off of its socket on the headphone jack assembly.
- Without removing the spudger, slide the spudger to the right, releasing the adhesive holding down the camera cable.

Step 52



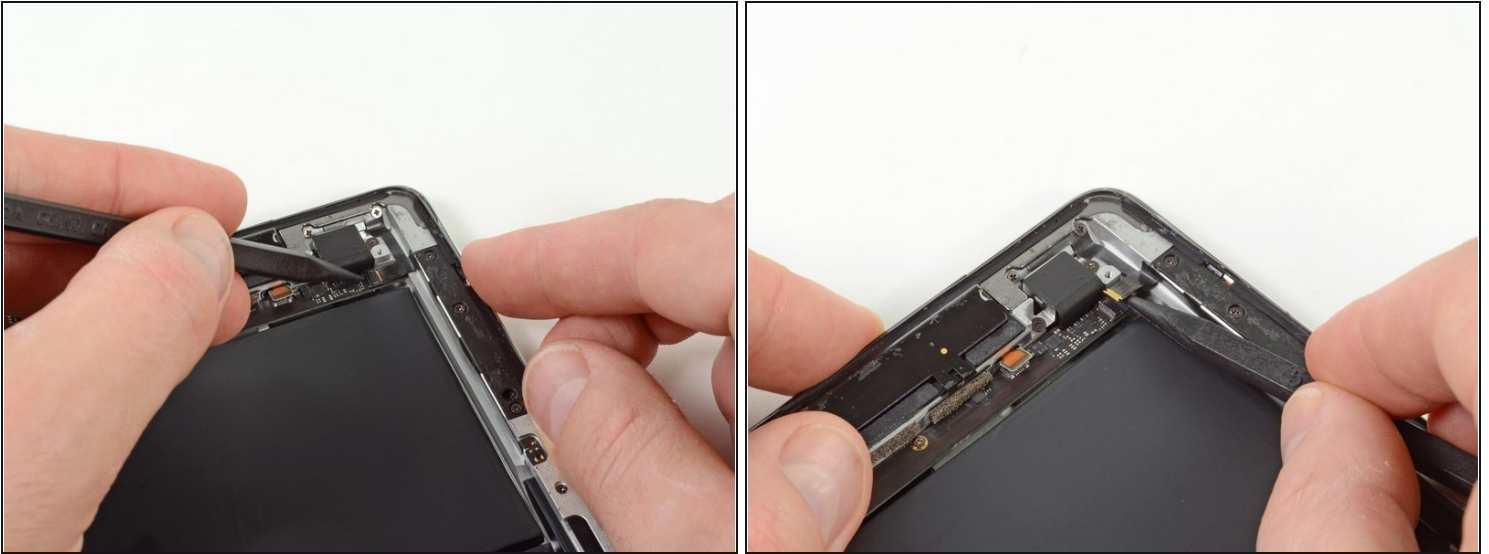
- Using the tip of the spudger, flip up the retaining flap on the microphone cable ZIF connector.
- Insert the tip of the spudger underneath the microphone ribbon cable, removing it from its ZIF connector.
- Slide the spudger to the left, releasing the adhesive holding the microphone ribbon cable to the headphone jack assembly.

Step 53



- Use the flat end of the spudger to pry up the antenna connector cable out of its socket on the headphone jack assembly board.

Step 54



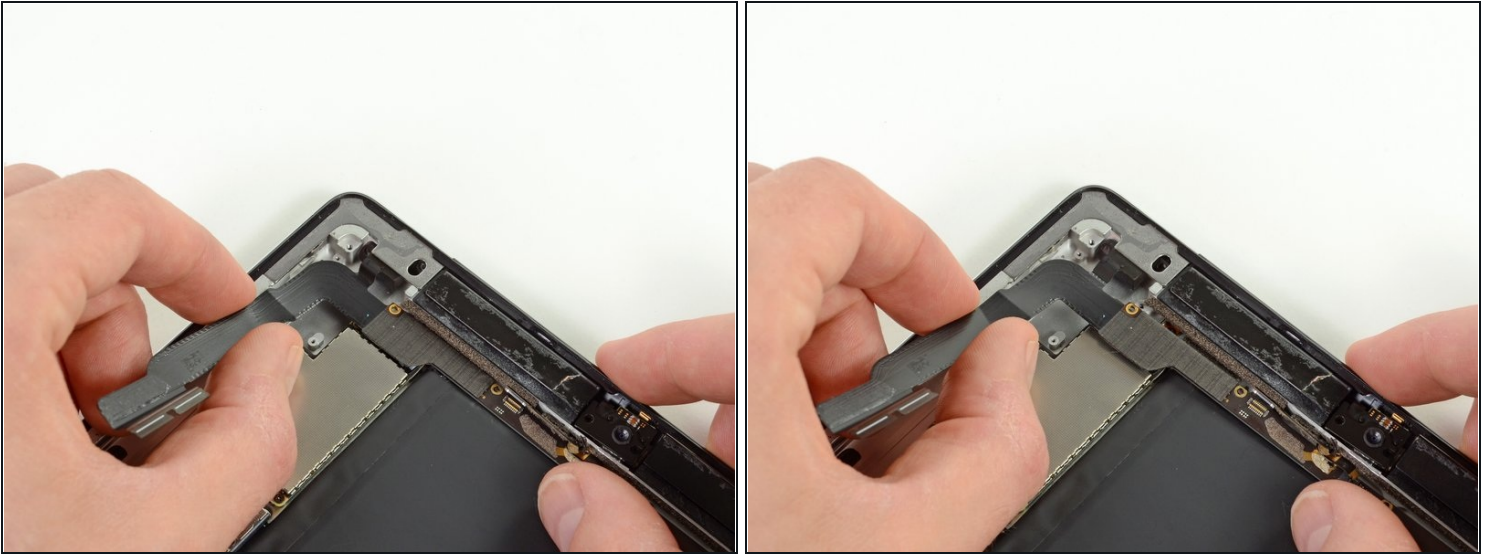
- Flip up the retaining flap securing the volume/power button ribbon cable connector to the headphone jack assembly board.
- Remove the volume button ribbon cable from its ZIF connector.

Step 55



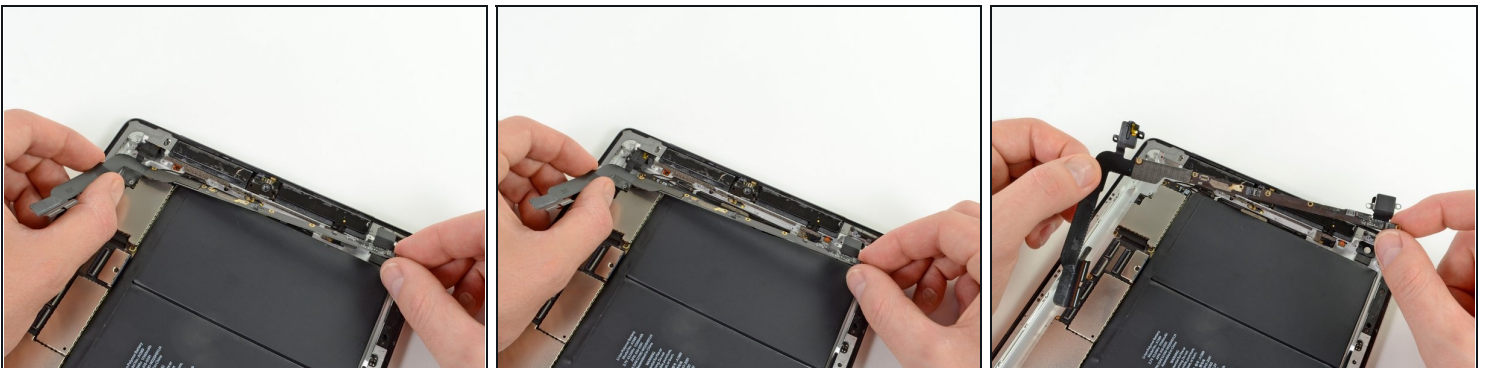
- Remove the following screws from the headphone jack assembly:
 - Five 2.6 mm Phillips #0
 - Two 2.2 mm Wide Head Phillips #00
 - Two 2.6 mm Phillips #00
- ① These screws are angled into the aluminum frame. Be sure to hold the screwdriver so that the screwdriver is in line with the screw, to avoid stripping the screw.

Step 56



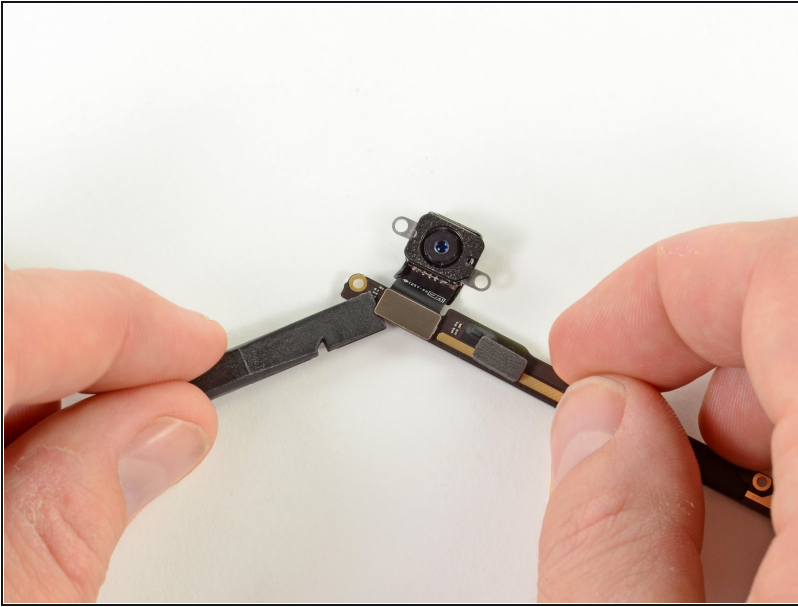
- Holding onto the ribbon cable of the headphone jack assembly, carefully pull the assembly parallel to the iPad, toward the bottom of the device.

Step 57



- Grasping the headphone jack assembly with both hands, pull the assembly from the iPad, minding any cables that may get caught.

Step 58 — Rear Facing Camera Assembly



- Using the flat end of a spudger, pry the rear facing camera off of its socket on the underside of the headphone jack assembly board.

Step 59 — Rear Facing Camera



- Rear Facing Camera remains.

To reassemble your device, follow these directions in reverse and use our [iPad 4 GSM Front Panel Adhesive strips](#) guide to reattach the front panel.