



iMac Intel 21.5" EMC 2638 iSight Camera Replacement

Use this guide to replace the iSight camera.

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INTRODUCTION

Use this guide to replace the iSight camera.

TOOLS:

[Plastic Cards](#) (1)
[Spudger](#) (1)
[T5 Torx Screwdriver](#) (1)


PARTS:

[iMac Intel 21.5" \(2012-2019\) Adhesive Strips](#) (1)

Step 1 — Display Assembly



- ① With the hinge free to move, the iMac will be unbalanced and hard to work on. Repairs are fast and easy with an iMac service wedge, but can be completed without one.
- ① If you are using the [iFixit cardboard service wedge](#), follow [these assembly directions](#) to put it together.
- **Before beginning any work on your iMac:** Unplug the computer and press and hold the power button for ten seconds to discharge the power supply's capacitors.

 **Be very careful** not to touch the capacitor leads or any exposed solder joints on the back of the power supply. Only handle the board by the edges.

Step 2



- Starting on the left of the display, near the power button, insert the iMac Opening Tool into the gap between the glass panel and the rear enclosure.

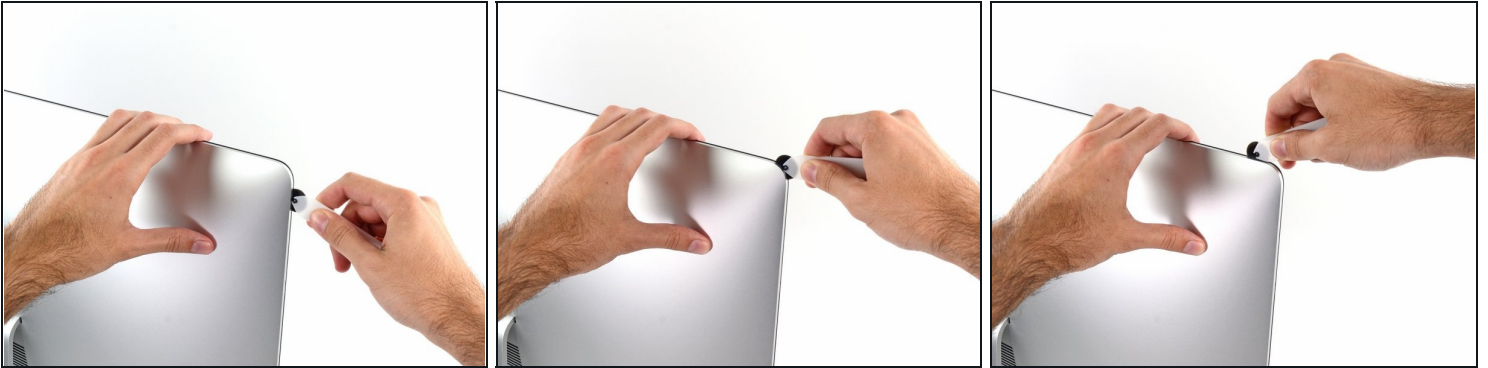
⚠ The hub on the iMac Opening Tool will keep you from pushing the wheel in too far. If using a different tool, insert no more than 3/8" into the display. Otherwise, you risk severing antenna cables and causing serious damage.

Step 3



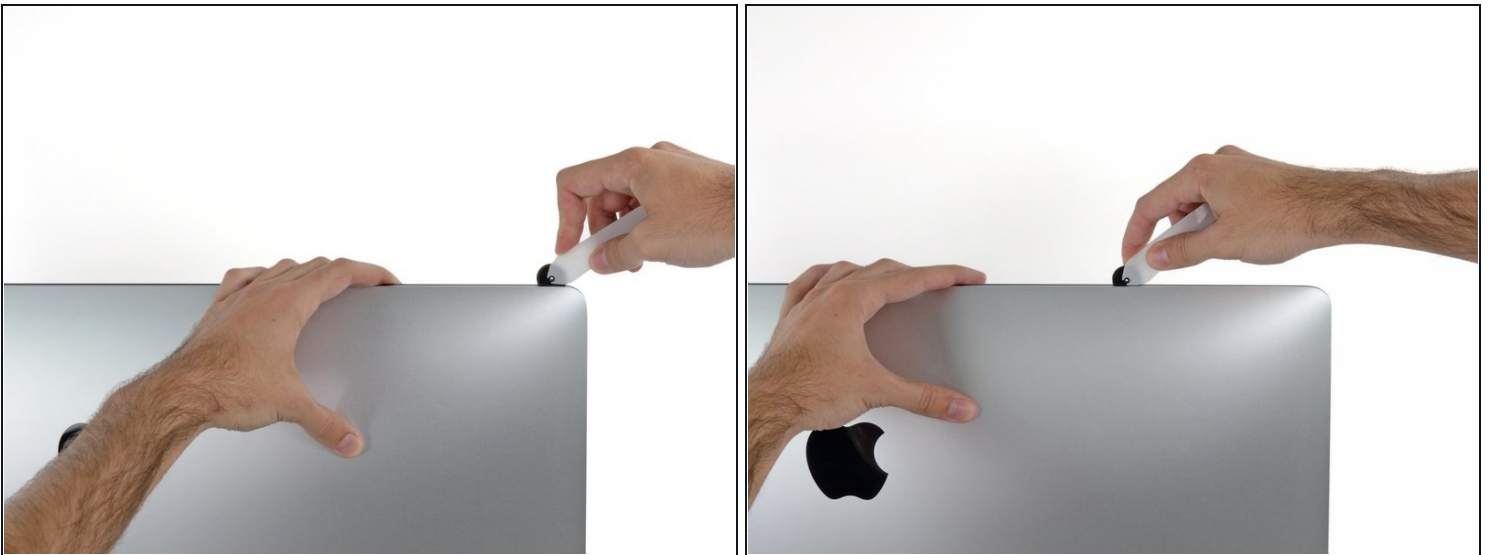
- Use the tool like a pizza cutter—roll it along through the gap, and it will cut the foam adhesive through the center.
- ⓘ Be sure to always push with the handle behind the cutting wheel. If you pull, the wheel might get pulled out of the handle.
- Run the tool up along the left side of the display.

Step 4



- Continue running the tool up around the top left corner.

Step 5



- Cut the adhesive along the top left of the display.

Step 6



- Continue along the top of the display.
- ① You may want to run the tool back and forth through what you've already cut a few times, to ensure you get as much of the adhesive separated as possible.

Step 7



- Push the tool around the top right corner of the display.

Step 8



- Wheel the tool down along the right side of the display.

Step 9



- Finish pushing the opening tool to the bottom of the right side of the display.
- ① At this point, you'll want to run the tool back around the entire display, to ensure you cut as much adhesive as possible.

Step 10



ⓘ While the opening tool cut most of the adhesive, the display will still be slightly adhered to the case. A plastic card will be necessary to free up the last of this adhesive.

☑ Set the iMac face-up on a table.

- Starting from the top right corner of the iMac, wedge a [plastic card](#) between the display and frame.

⚠ Be careful **not** to insert the plastic card more than 3/8", or you may damage internal components.

Step 11



- Gently twist the plastic card sideways to create a gap between the display and frame.
- Move slowly and be careful not to stress the display glass too much—you only need to make a gap of about 1/4".

Step 12



- Slide the card toward the center of the display to cut any of the remaining adhesive along the top right corner of the iMac.

⚠ Be sure to **stop** before the iSight camera, or you may damage it.

Step 13



- Wedge the plastic card into the top right corner once again, and leave it there to prevent the adhesive from resticking.

Step 14



- Insert a second plastic card into the gap between the display and frame near the top left corner of the iMac.

Step 15



- Gently twist the card upward, slightly increasing the space between the display and frame.
- ① As with the other side, twist slowly to allow the adhesive time to separate, and be careful not to over-stress the display glass.

Step 16



- Slide the plastic card toward the center, again stopping just before the iSight camera.

Step 17



- Wedge the plastic card back into the top left corner.

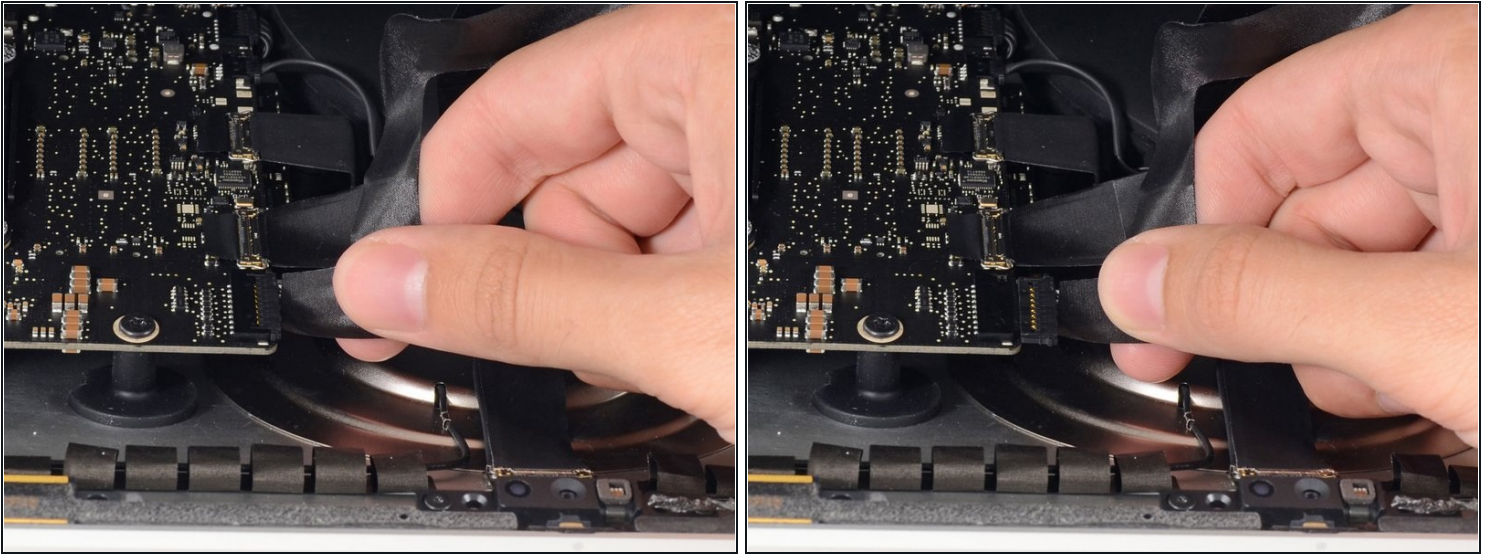
Step 18



- With both plastic cards inserted as shown near the corners, gently twist the cards sideways to increase the gap between display and case.
- ⓘ If there are any sections that seem to stick and won't separate, stop twisting and use one of the cards to cut the remaining adhesive.
- Begin to lift the top of the display up from the frame.

⚠ Only lift the display a few inches—the display data and power cables are still connected to the logic board.

Step 19 — Display



- While holding the display up with one hand, use the other hand to unplug the display power cable.
- ⓘ Lift the display up enough to have easy access to the connector, but not so much that you stretch the cables and stress their connections (about 8").

Step 20



- Use the tip of a spudger to flip up the metal retaining bracket on the display data cable.
- Carefully pull the display data cable from its socket on the logic board.

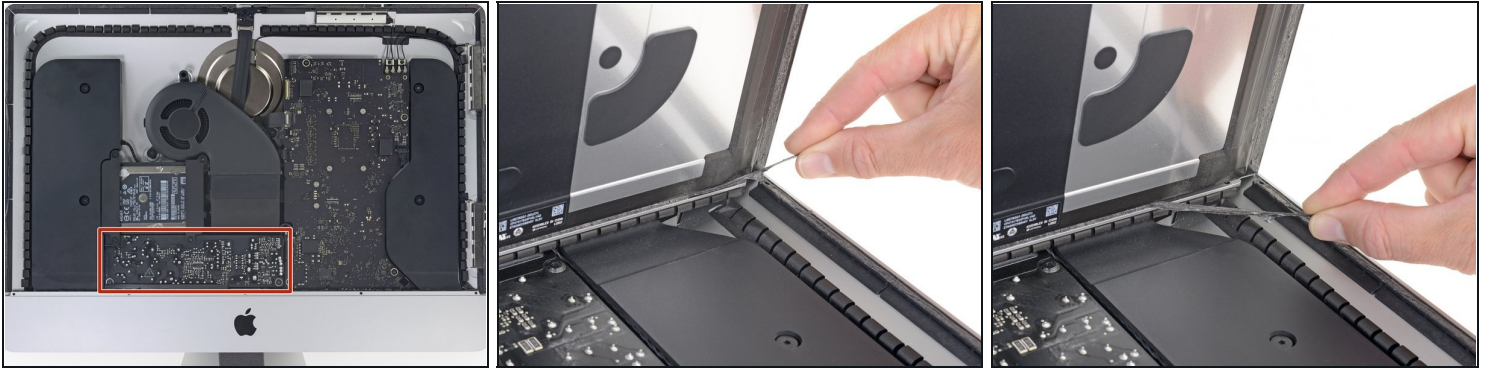
⚠ Be sure to pull the display data cable connector straight out of its socket.

Step 21



- Lift the display up to a near-vertical position.
- ① At this point there is still a strip of adhesive along the bottom of the display, that will hold the display to the frame like a hinge. You can loosen this adhesive by working the display up and down a few times.

Step 22



⚠ Be very careful not to touch the capacitor leads or any exposed solder joints on the back of the power supply (boxed in red).

- Grasp the small tab at the end of one of the bottom edge display adhesive strips and pull the adhesive toward the top of the iMac to remove it.
 - Repeat this step with the other adhesive strip and remove it.
- i** If either adhesive strip breaks before it's removed, use a [plastic card](#) to slice through the remaining adhesive.

Step 23

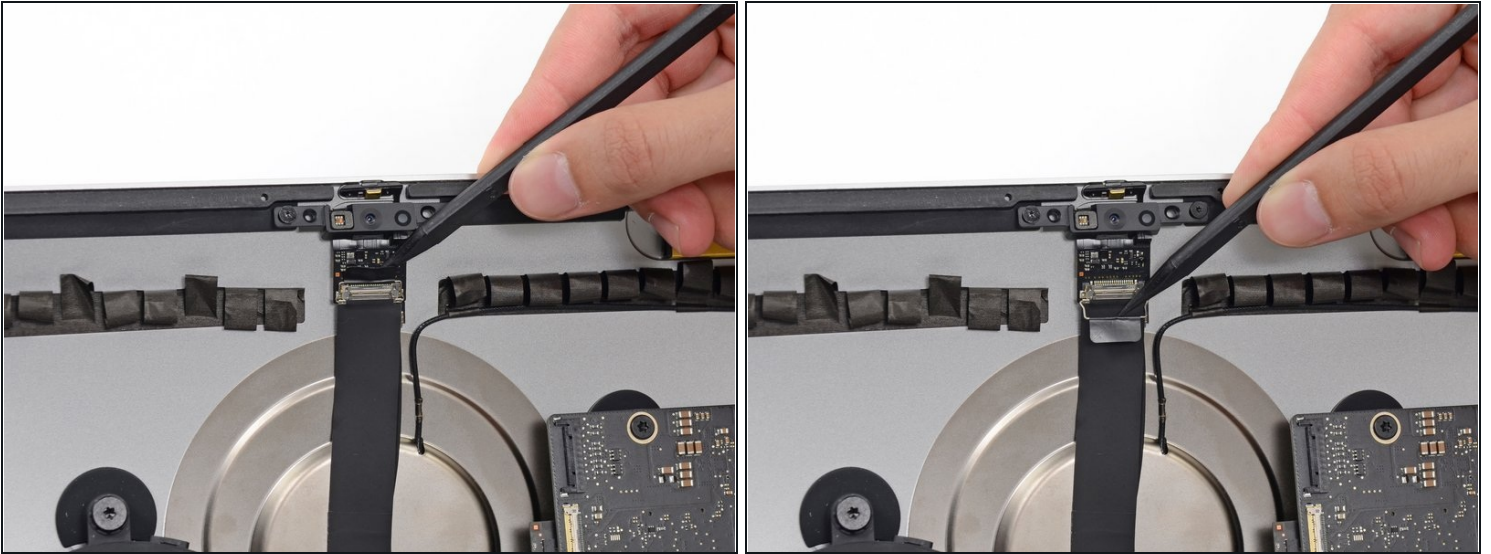


- Lift the display up from the frame and remove it from the iMac.
- It may be necessary to slowly lift from one side, to peel against the remaining adhesive.

⚠ Be very careful handling the display—it's big, heavy, and made of glass.

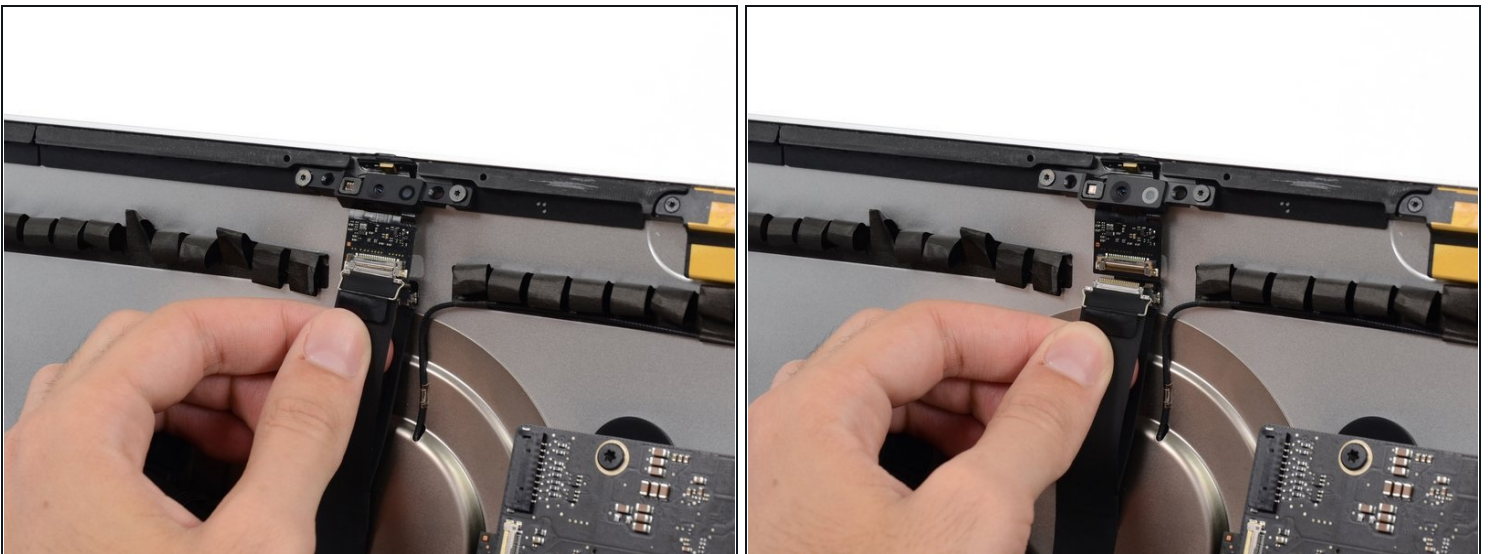
🔧 During reassembly, head over to our [display adhesive guide](#) to install the new adhesive.

Step 24 — iSight Camera and Microphone Cable



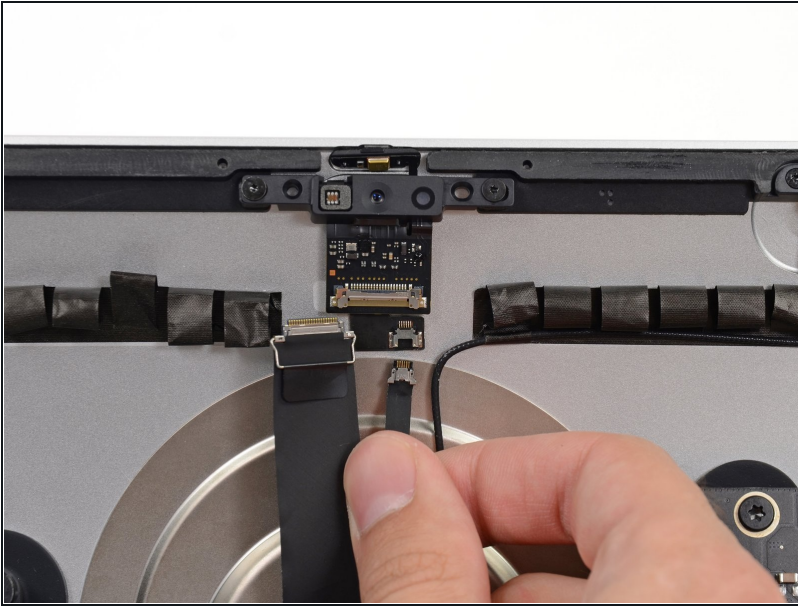
- Use the tip of a spudger to flip down the metal retaining bracket on the iSight camera cable.

Step 25



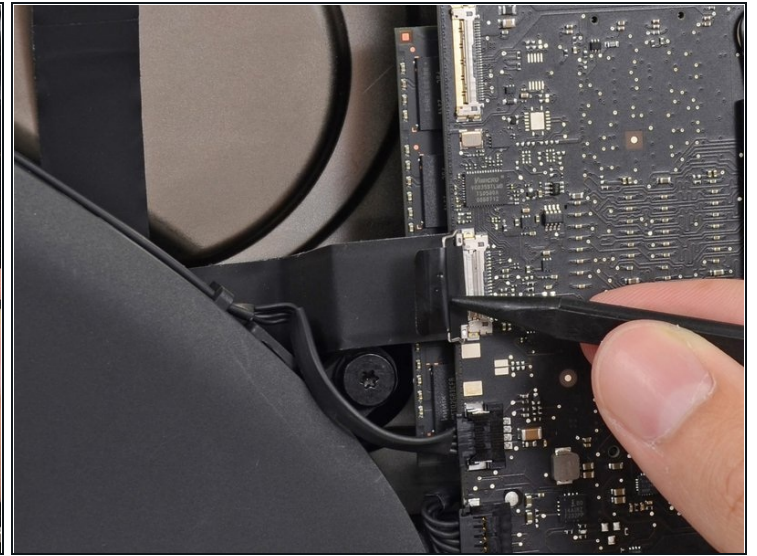
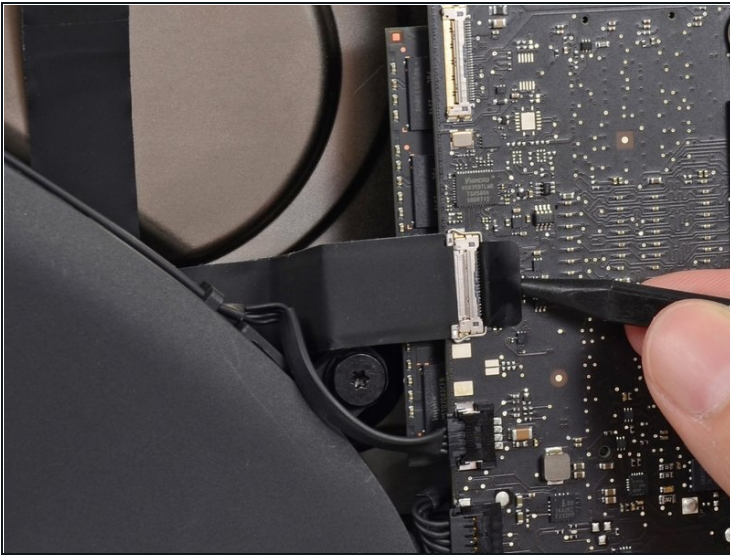
- Gently pull the iSight camera cable straight down from its socket on the camera board.
- ⓘ Be sure to remove only the iSight connector—the microphone connector is on a separate branch of the cable.

Step 26



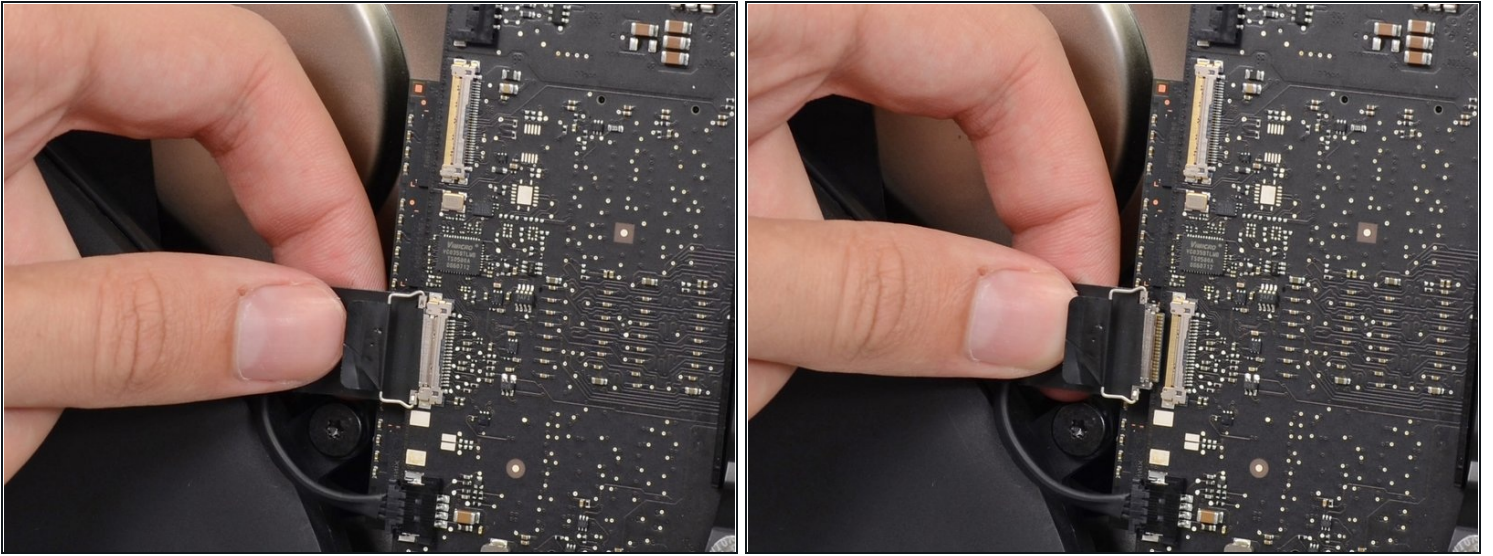
- Disconnect the microphone cable from its socket on the camera board by carefully pulling straight down.

Step 27



- Use the tip of a spudger to flip up the metal retaining bracket on the iSight camera cable located on the logic board.

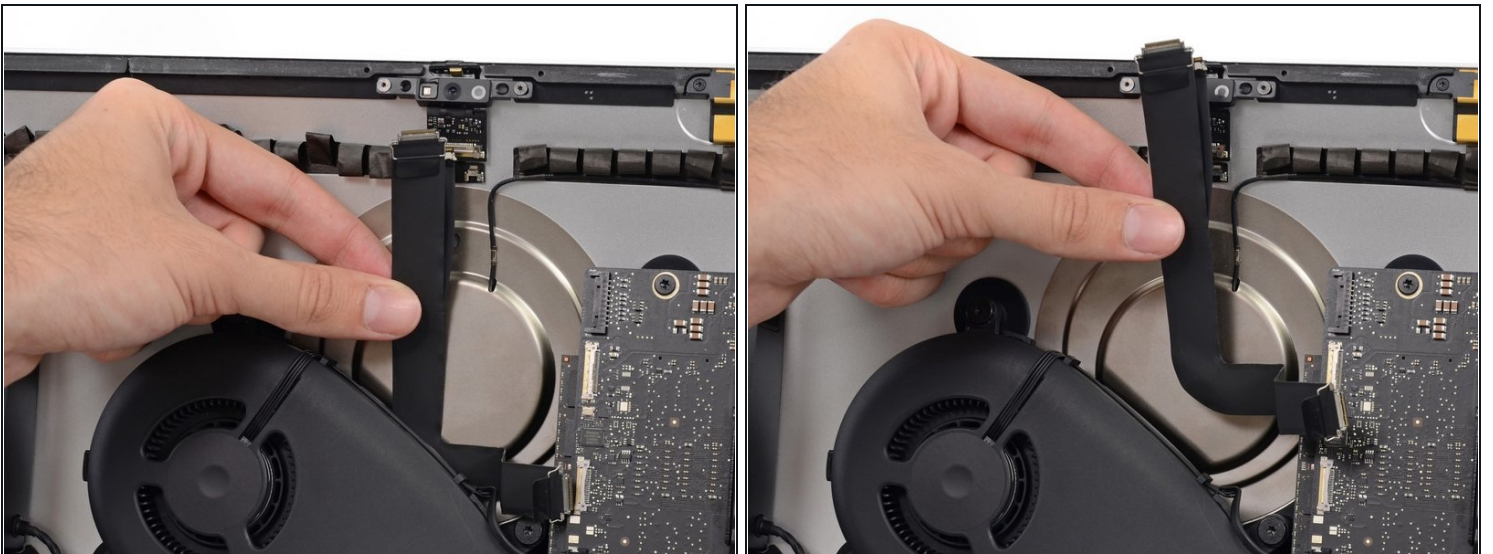
Step 28



- Pull the iSight camera cable straight away from its connector on the logic board.

⚠ Do **not** use excessive force. This is a delicate connector that can easily be damaged.

Step 29



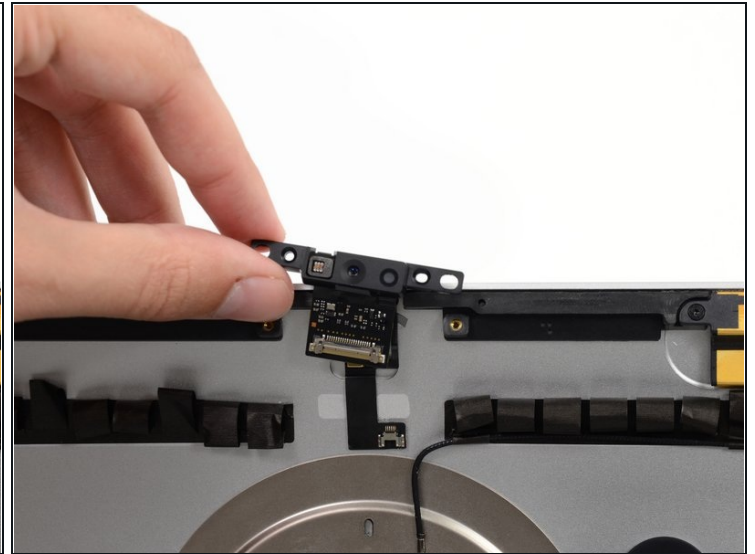
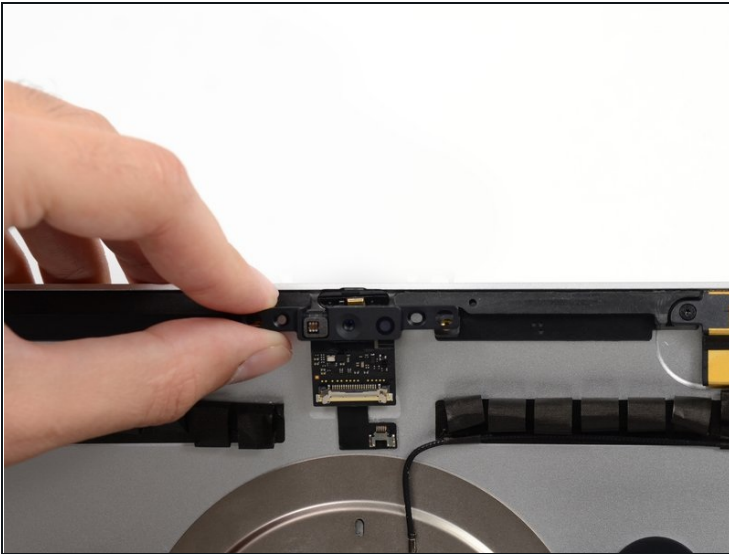
- Peel and remove the iSight camera cable from the rear enclosure.
- ⓘ If you have trouble peeling the cable from the adhesive securing it to the rear enclosure, use a spudger to help pry it free.

Step 30 — Camera Assembly



- Remove the two 4.3 mm T5 Torx screws securing the camera board to the top of the rear enclosure.
- ★ During reassembly, be careful **not** to over-tighten these screws. They have large shoulders and will not hold the camera board tightly against the rear enclosure.

Step 31



- Lift and remove the camera assembly from the iMac.

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