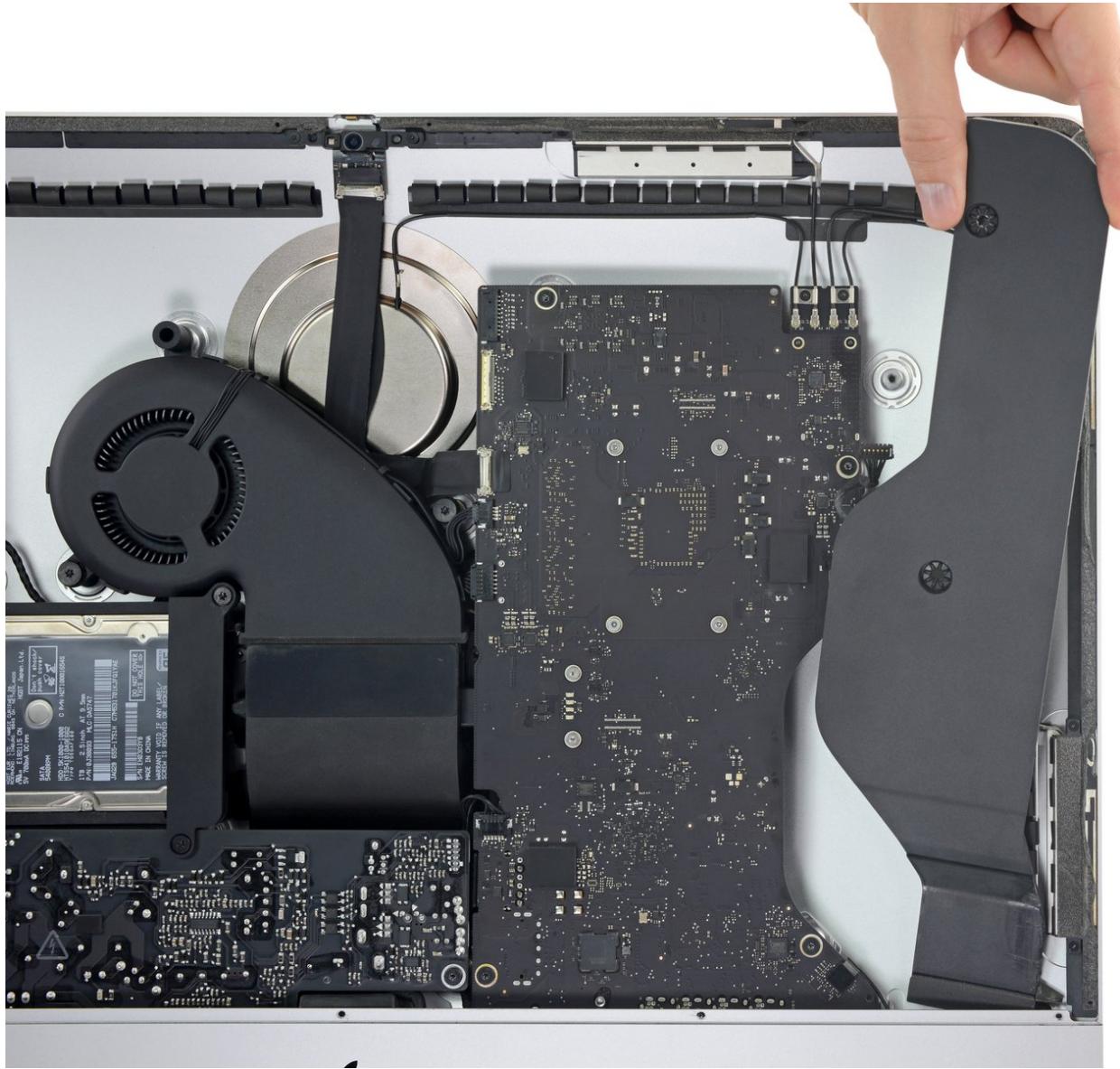




# iMac Intel 21.5" Retina 4K Display Right Speaker Replacement

Replace the right speaker in a 21.5" Retina 4K Late 2015 iMac EMC 2833.

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## INTRODUCTION

Follow the steps in this guide to replace the right speaker in a 21.5" Retina 4K Late 2015 iMac.

### TOOLS:

- [iMac Service Wedge](#) (1)
- [iMac Opening Tool](#) (1)
- [Plastic Cards](#) (1)
- [Tweezers](#) (1)
- [Spudger](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [T10 Torx Screwdriver](#) (1)

### PARTS:

- [iMac Intel 21.5" \(2012-2017\) Adhesive Strips](#) (1)
- [iMac 21.5" \(Late 2012 - Late 2015\) Right Speaker](#) (1)

## Step 1 — Display Assembly

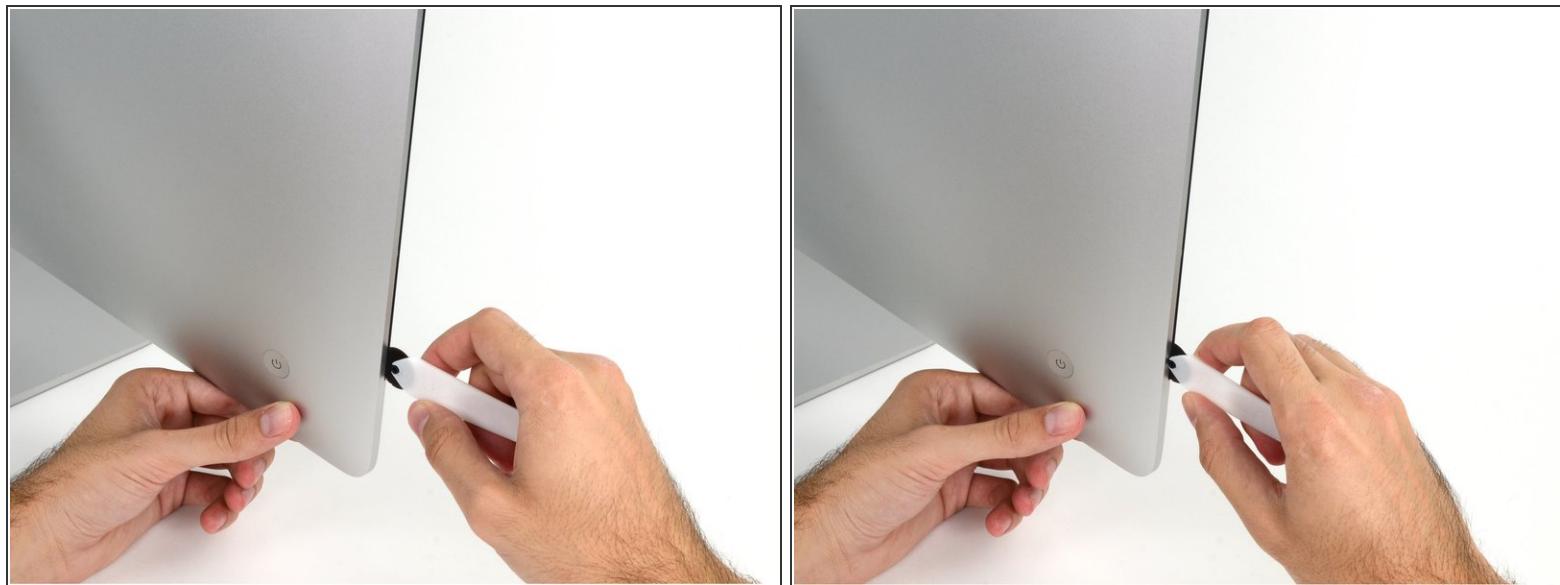


**i** With the hinge free to move, the iMac will be unbalanced and hard to work on. Repairs are fast and easy with an [iMac service wedge](#), but can be completed without one.

- **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.

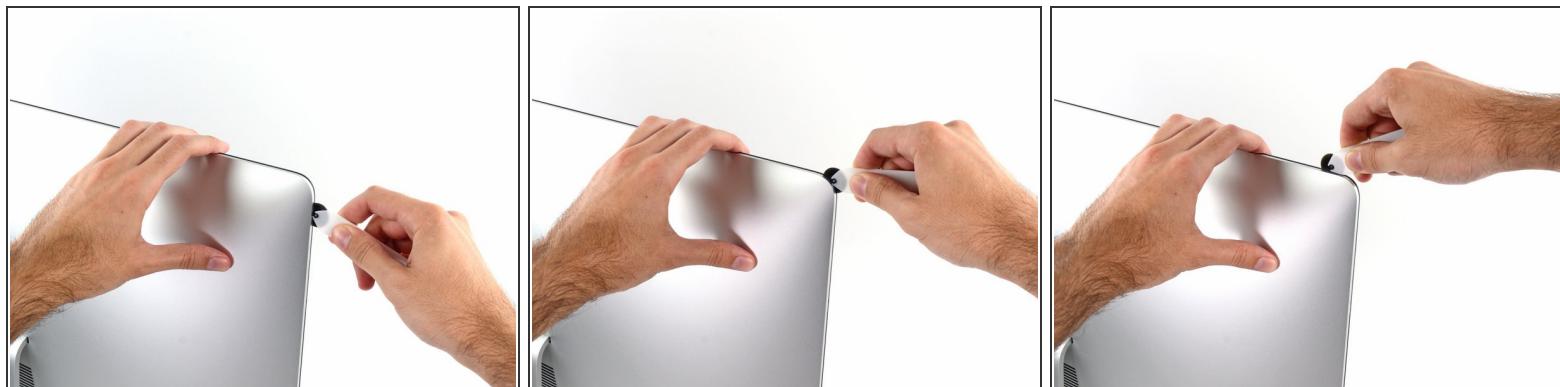
**⚠** The hub on the iMac Opening Tool will keep you from pushing the wheel in too far. If using a different tool, insert no more than 3/8" into the display. Otherwise, you risk severing antenna cables and causing serious damage.

## Step 3



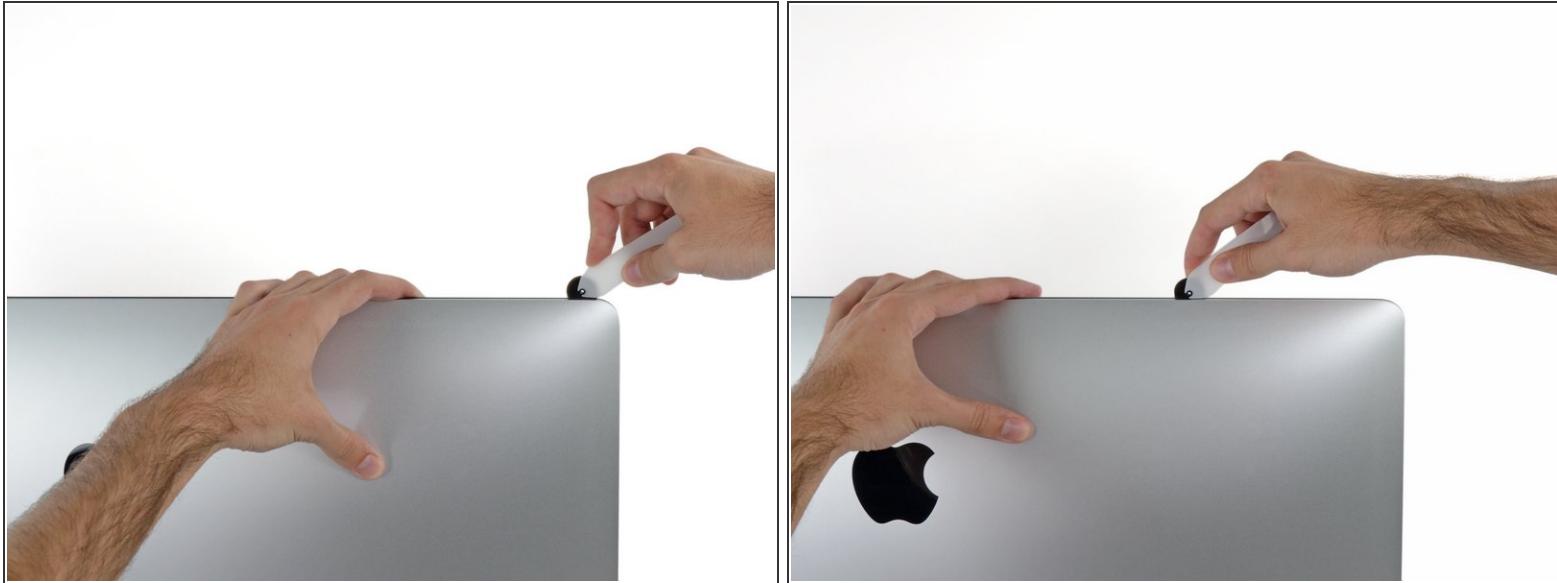
- Use the tool like a pizza cutter—roll it along through the gap, and it will cut the foam adhesive through the center.
- Be sure to always push with the handle behind the cutting wheel. If you pull, the wheel might get pulled out of the handle.
- Run the tool up along the left side of the display.

## Step 4



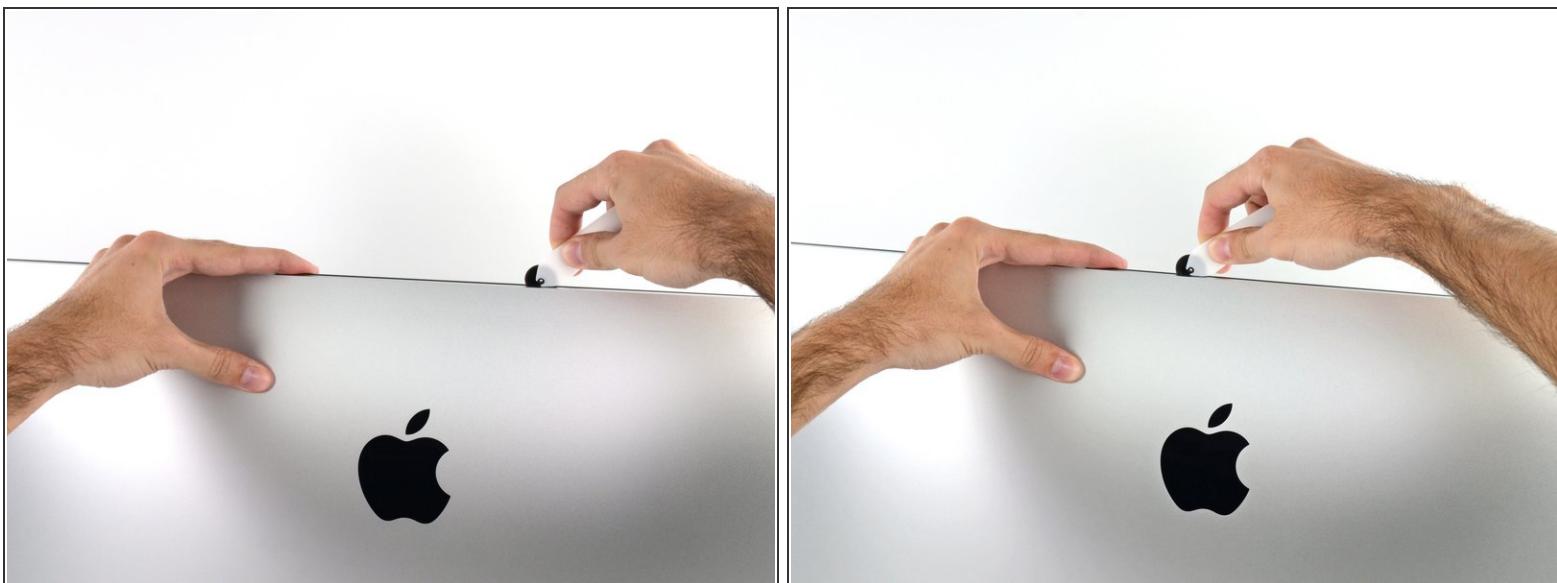
- Continue running the tool up around the top left corner.

## Step 5



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

## Step 6



- Continue along the top of the display.

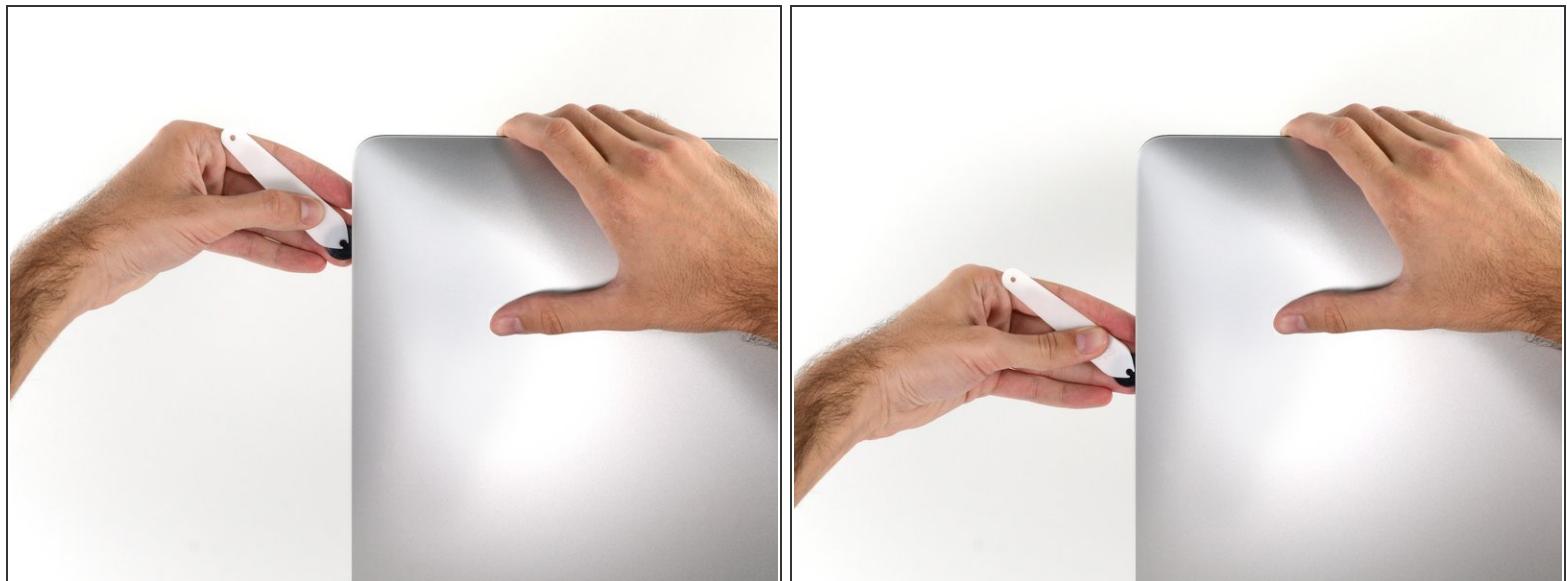
*(i)* You may want to run the tool back and forth through what you've already cut a few times, to ensure you get as much of the adhesive separated as possible.

## Step 7



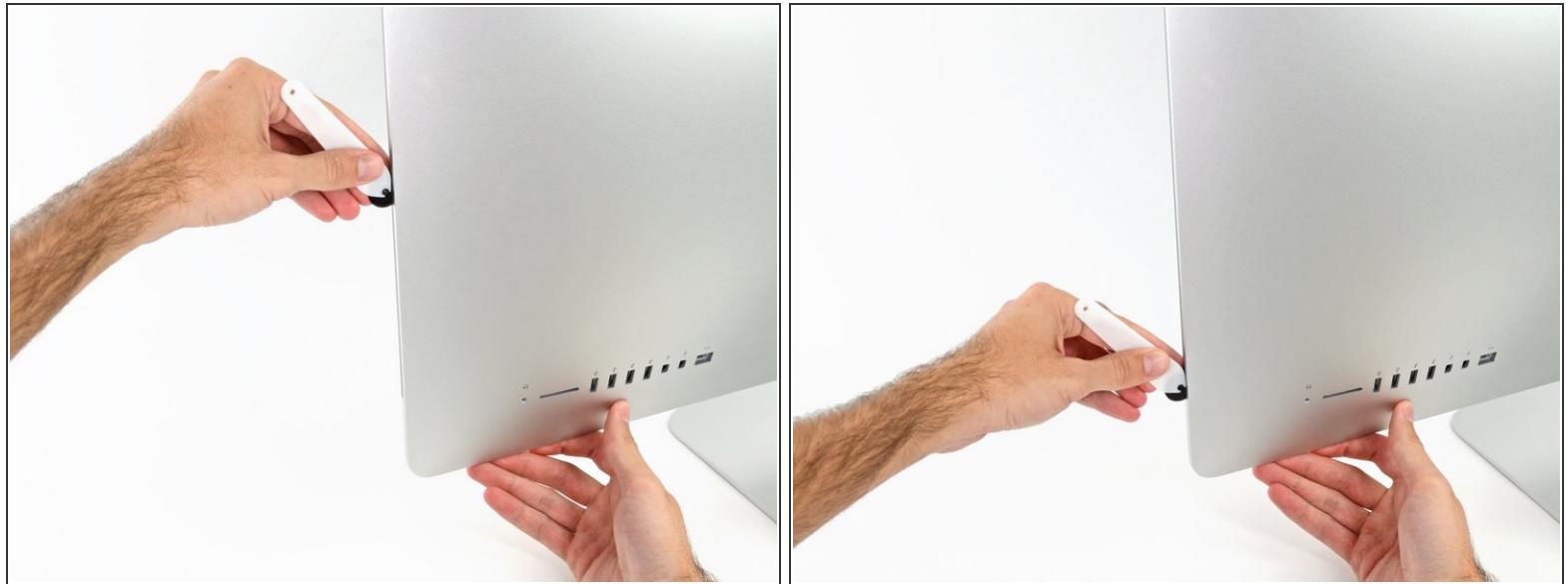
- Push the tool around the top right corner of the display.

## Step 8



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

## Step 9



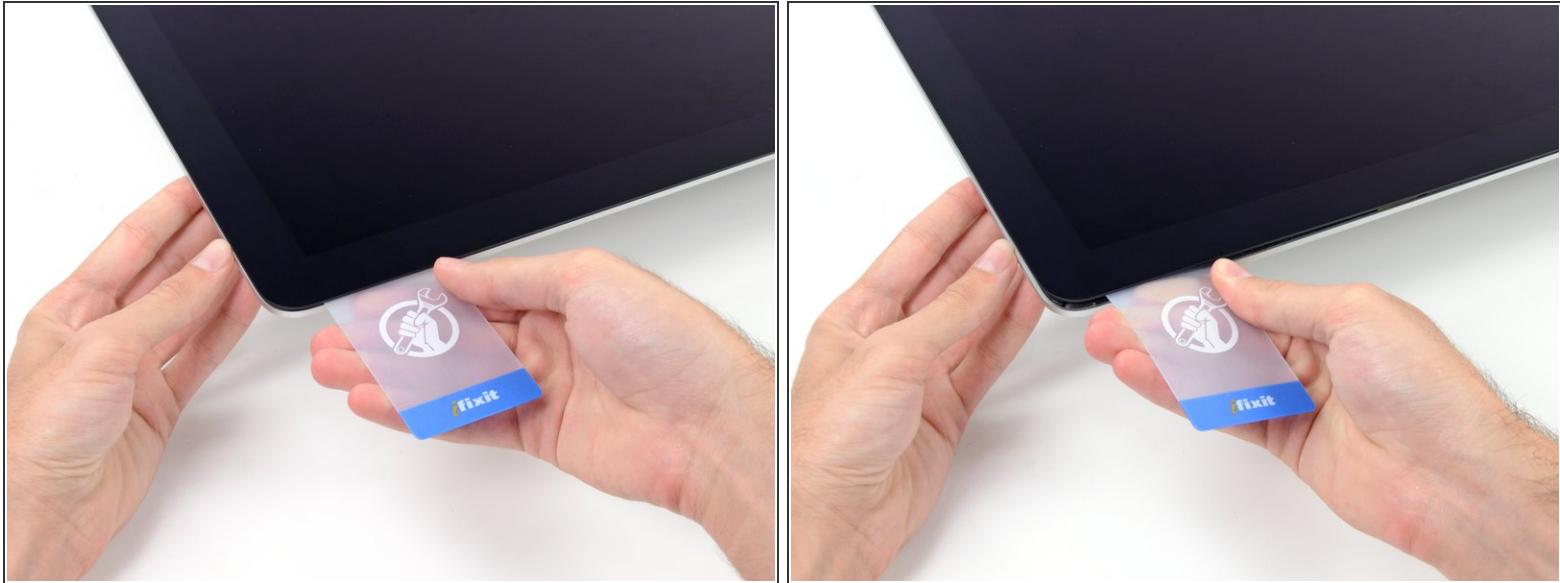
- Finish pushing the opening tool to the bottom of the right side of the display.
- At this point, you'll want to run the tool back around the entire display, to ensure you cut as much adhesive as possible.

## 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".

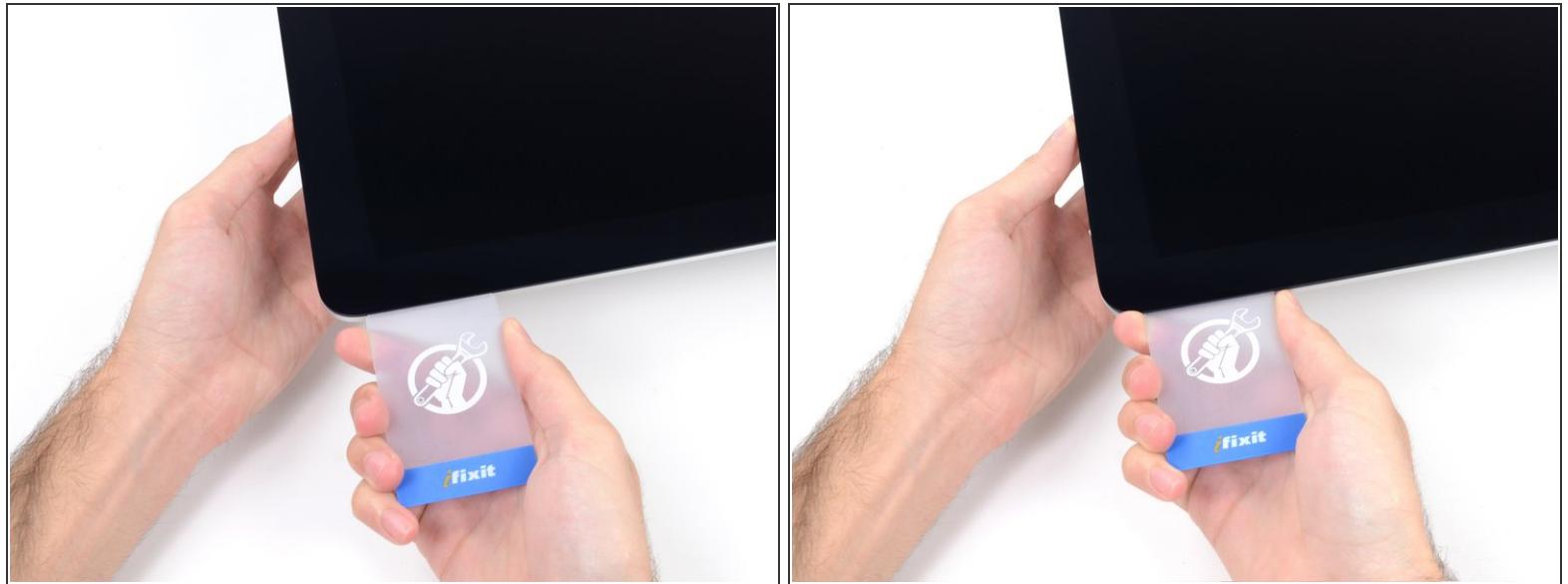
## Step 12



- 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



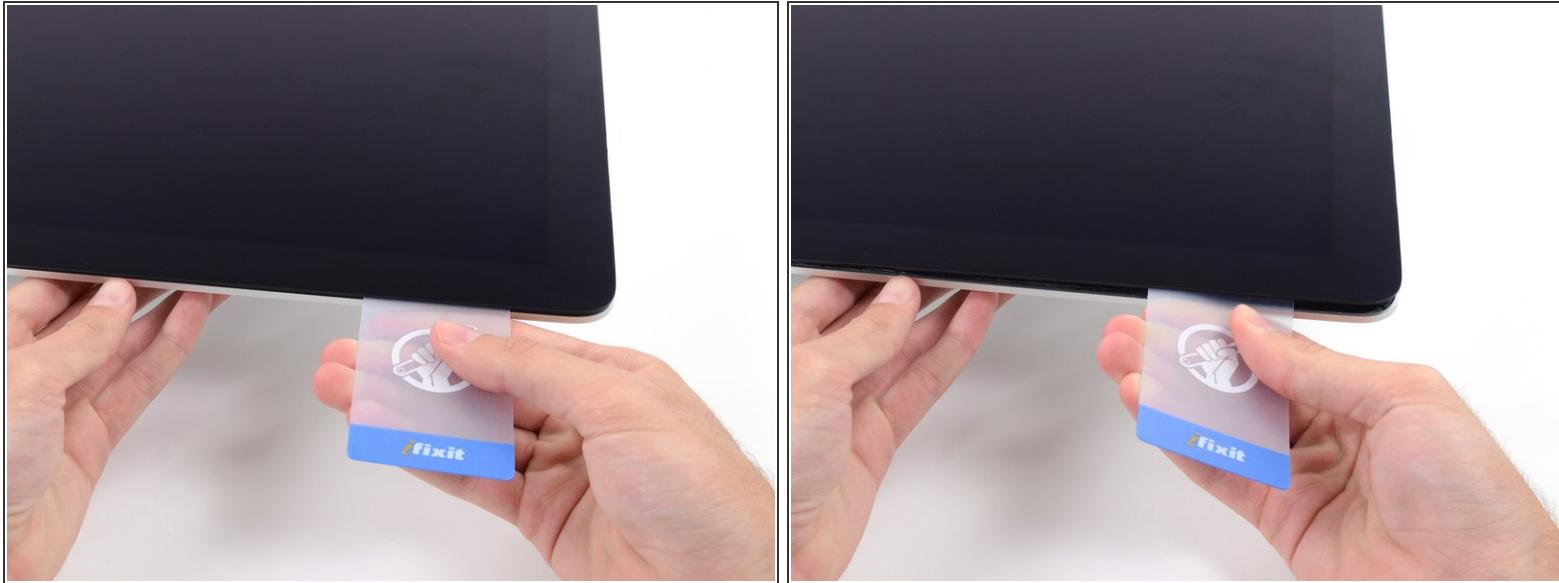
- Wedge the plastic card into the top right corner once again, and leave it there to prevent the adhesive from resticking.

## 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



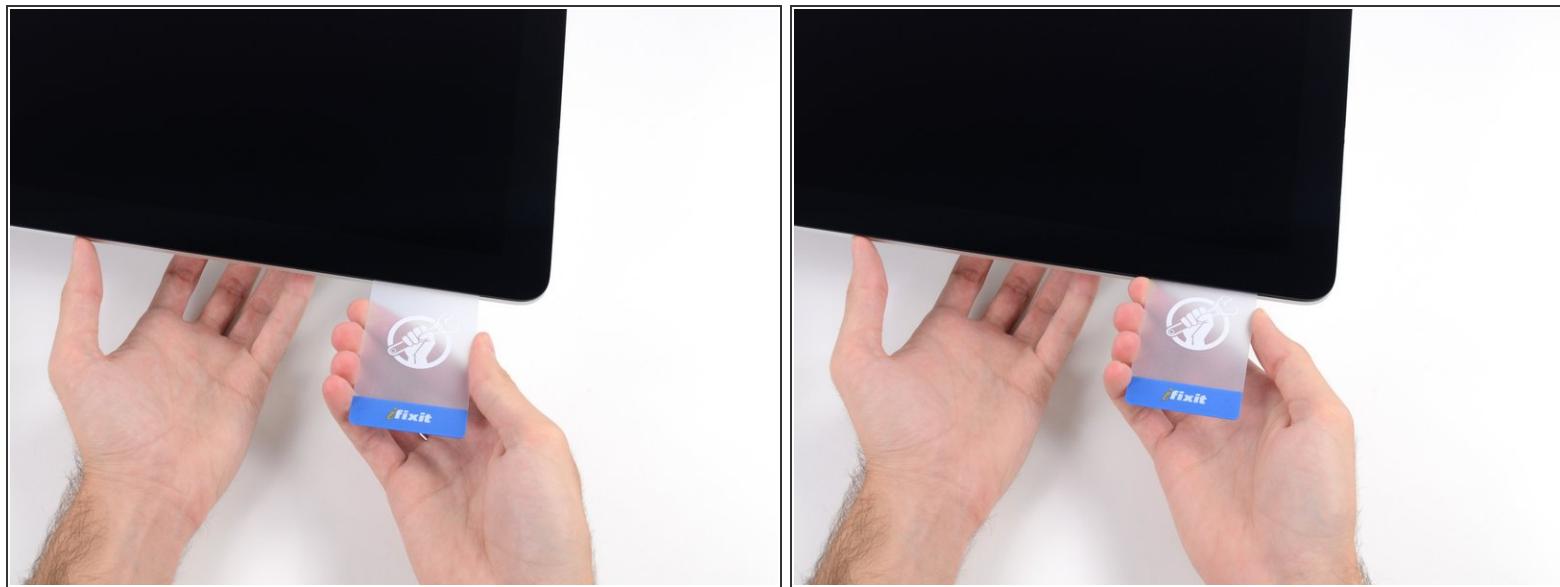
- Gently twist the card upward, slightly increasing the space between the display and frame.
- As with the other side, twist slowly to allow the adhesive time to separate, and be careful not to over-stress the display glass.

## 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.

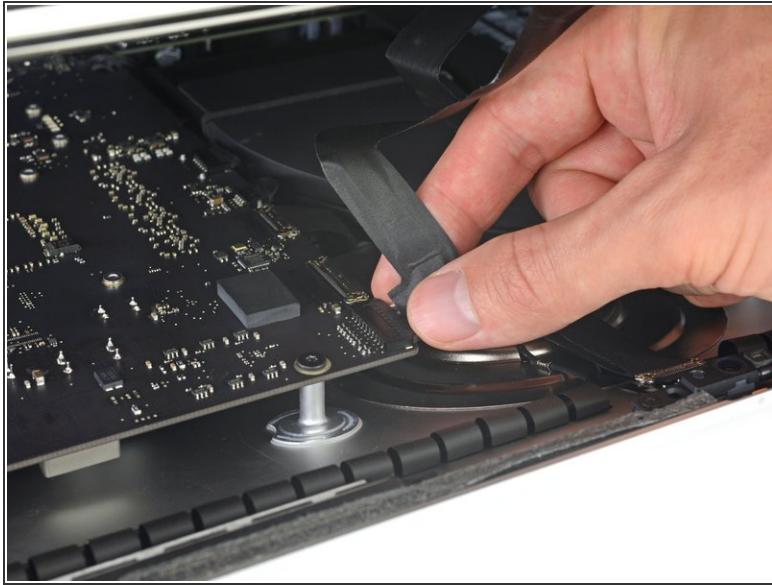
## Step 18



- 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 Assembly Cables



- ⓘ 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").
- Hold the display with one hand while using your other hand to unplug the display power cable.

## Step 20



- Continuing to support the display with one hand, 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, keeping it parallel to the motherboard, to avoid damaging it.

## Step 21 — Display Assembly Separation



- Lift the display up to a near-vertical position.
- 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



- If necessary, a plastic card can be used to cut any remaining sections of the bottom adhesive strip.

## Step 23

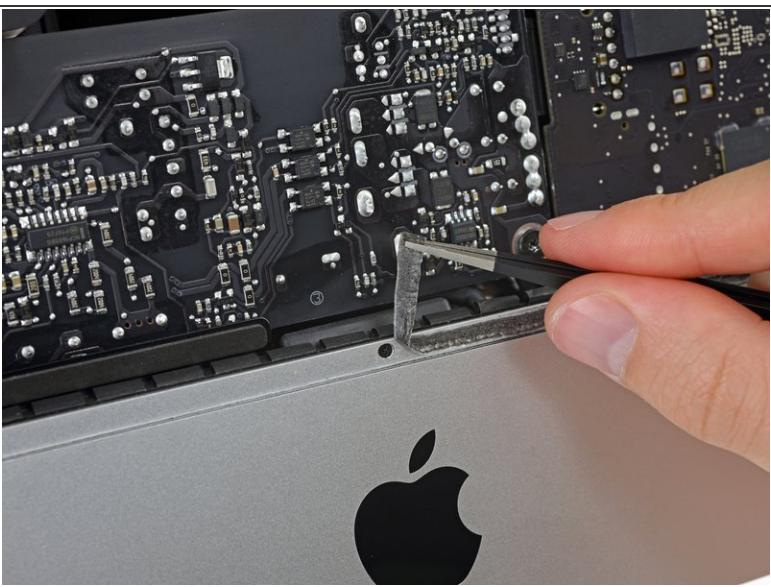


- Lift the display up from the frame and remove it from the iMac.
- It may be necessary to slowly lift from one side to peel against the remaining adhesive.

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

★ After the adhesive is cut, it cannot be used to re-seal the display in place. Follow [this guide](#) to replace the adhesive strips that secure the display to the rear enclosure.

## Step 24 — Lower Support Bracket



- Remove the following five Phillips screws holding the lower support bracket in place:
  - Four 3.2 mm screws
  - One 1.7 mm screw

***i*** On at least some EMC 2544 machines, all five screws are the same size.

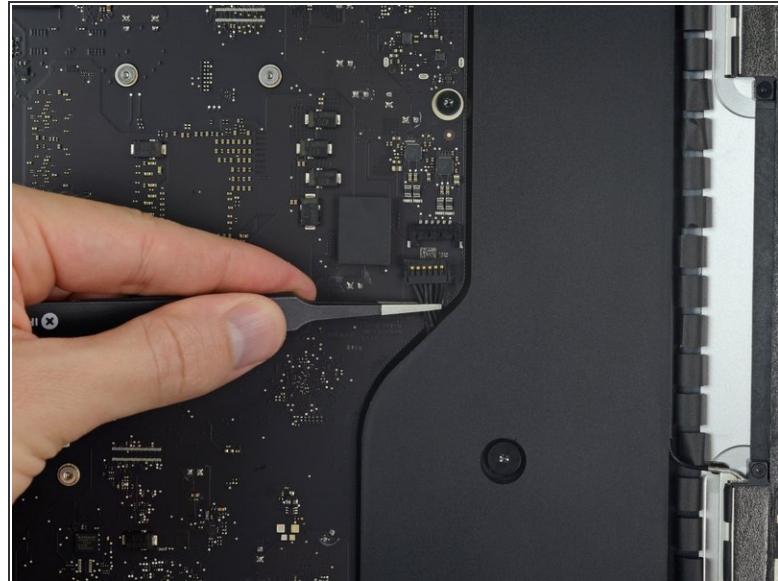
***i*** You may need to peel up the display adhesive lining the bottom edge of the iMac enclosure to access the screws.

## Step 25



- Remove the lower support bracket from the iMac enclosure.

## Step 26 — Right Speaker



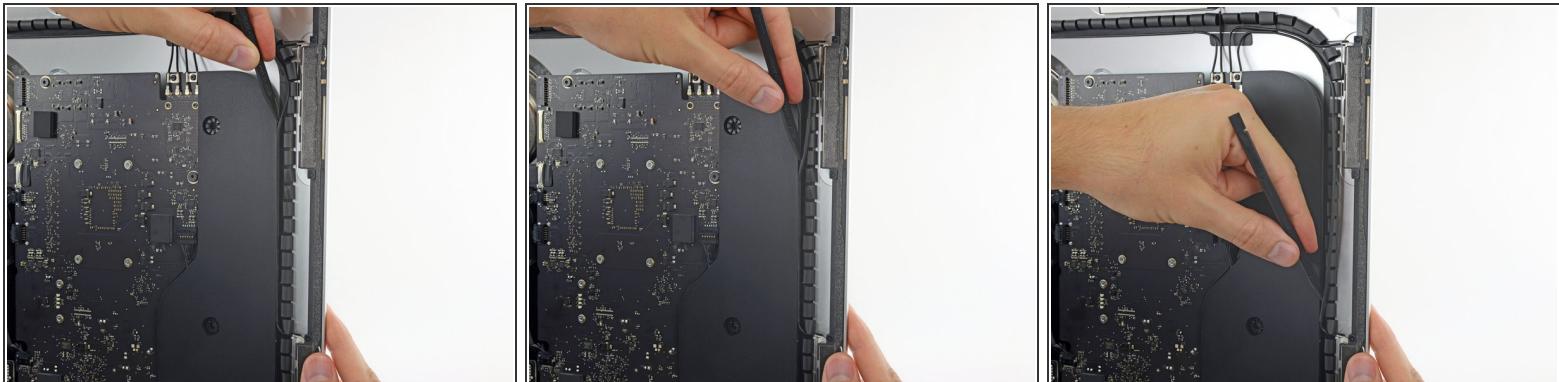
- Gently pull the right speaker cable connector straight down and out of its socket on the logic board.

## Step 27



- Remove the two 10 mm T10 Torx screws securing the right speaker to the rear enclosure.  
*(i)* Rubber washers keep the screws snug in the speaker even when loosened. You can use tweezers or a fingernail to remove the screws, or simply leave them with the speaker assembly.

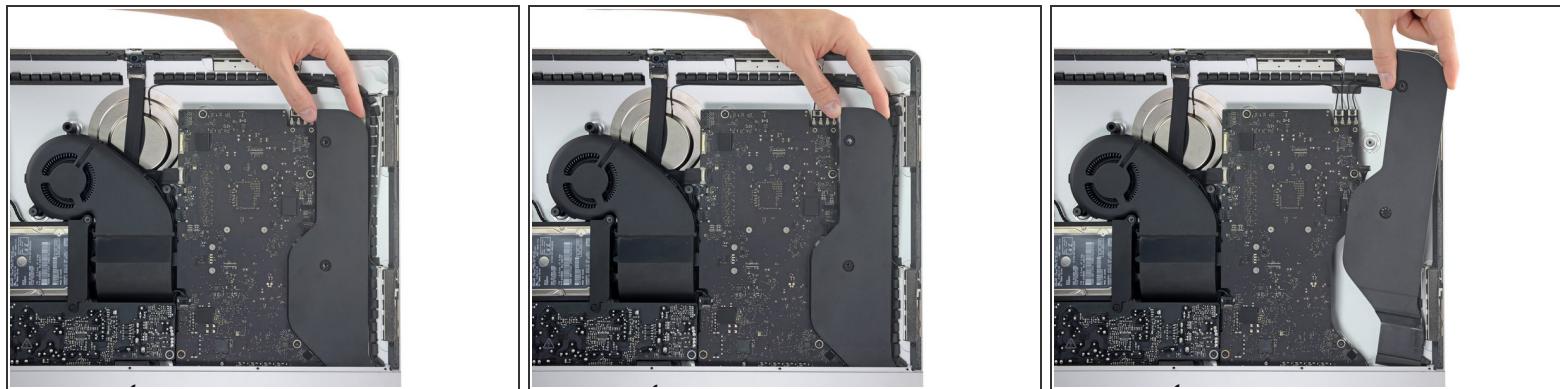
## Step 28



- Insert the tip of a spudger between the right speaker and the antenna cable, running it down the right side of the speaker to de-route the cable from its channel.

*(i)* If the channel is not easily accessible, you can tip the speaker slightly forward (away from the rear case) to gain access to the antenna cable.

## Step 29



- Tip the right speaker forward out of the rear enclosure, about 1 cm.
- Pull the speaker straight up and remove it from the iMac.

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