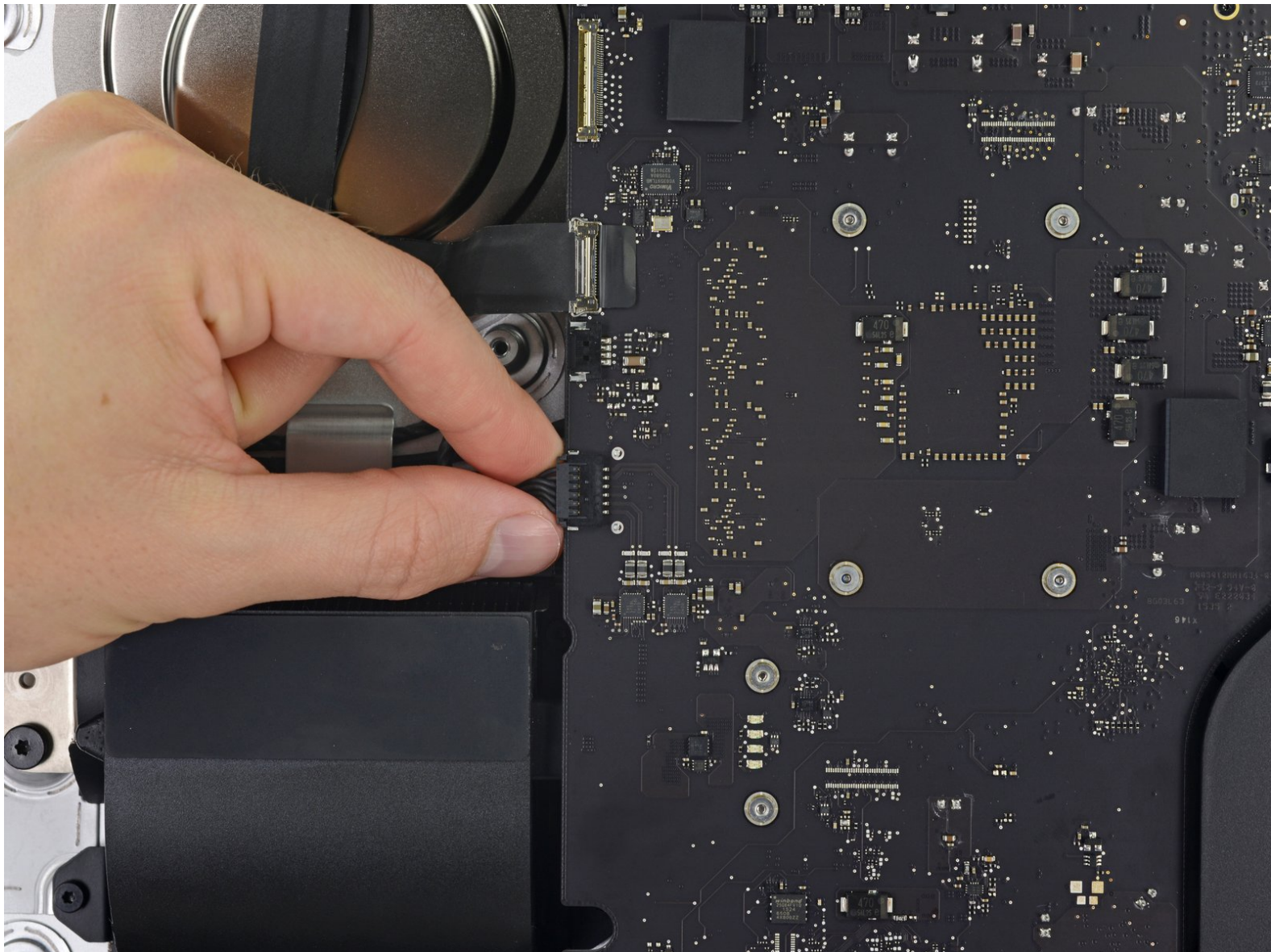




iMac Intel 21.5" EMC 3068 Logic Board Assembly Replacement

Prerequisite for removing the logic board from a iMac Intel 21.5" EMC 3068.

Written By: Adam O'Camb



INTRODUCTION

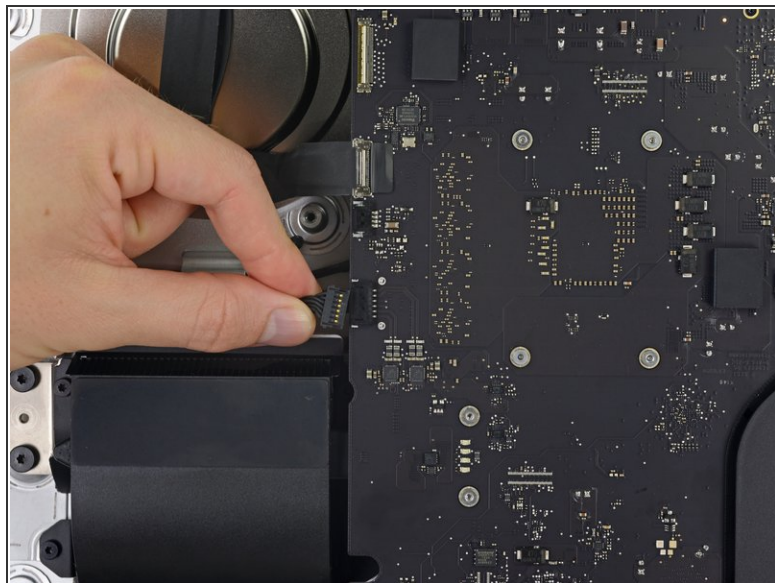
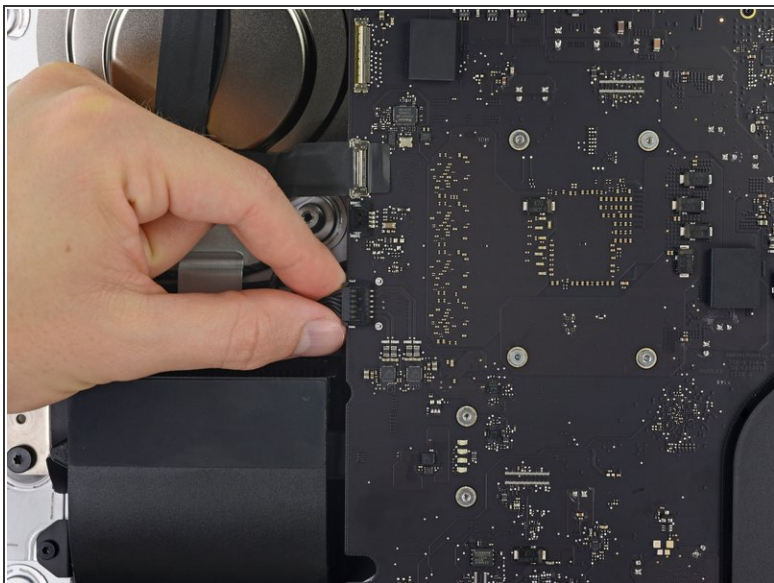
Prerequisite-only guide for removing the logic board assembly from a iMac Intel 21.5" EMC 3068.



TOOLS:

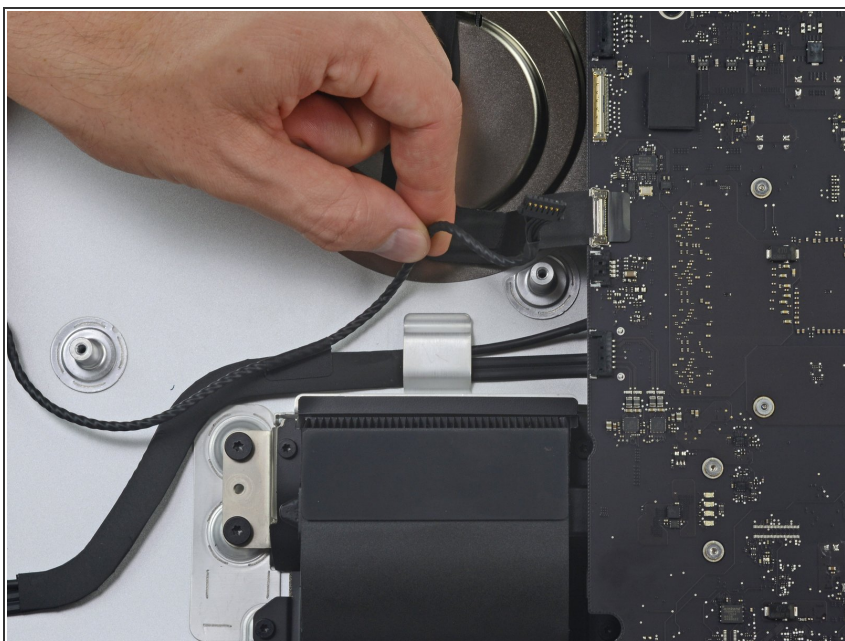
- [Spudger](#) (1)
 - [T8 Torx Screwdriver](#) (1)
 - [T5 Torx Screwdriver](#) (1)
-

Step 1 — Logic Board Assembly



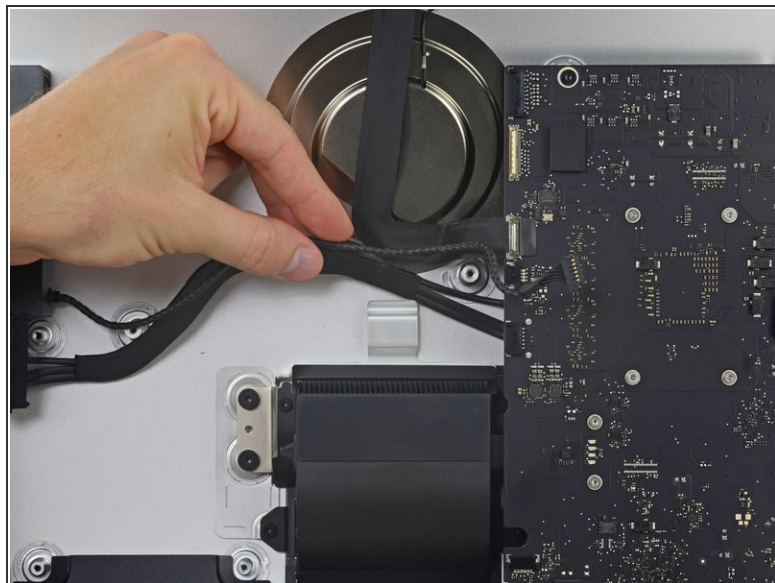
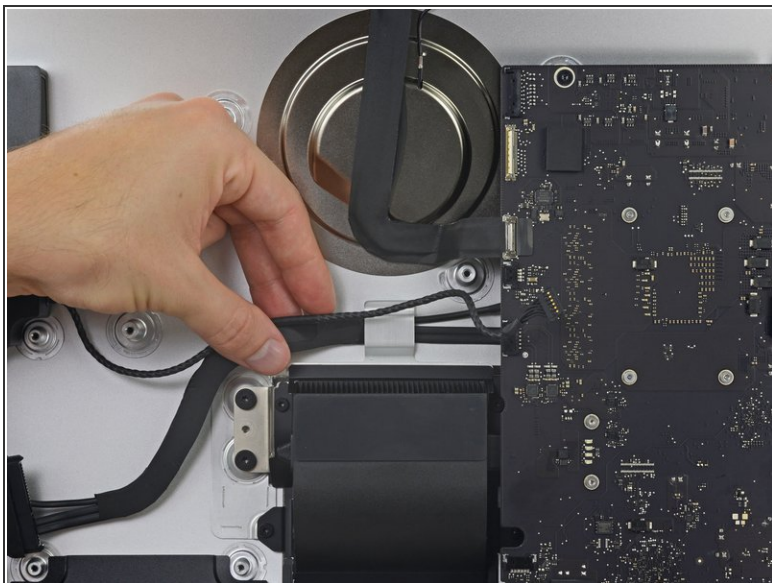
- Gently pull the left speaker cable straight out of its socket on the logic board.

Step 2



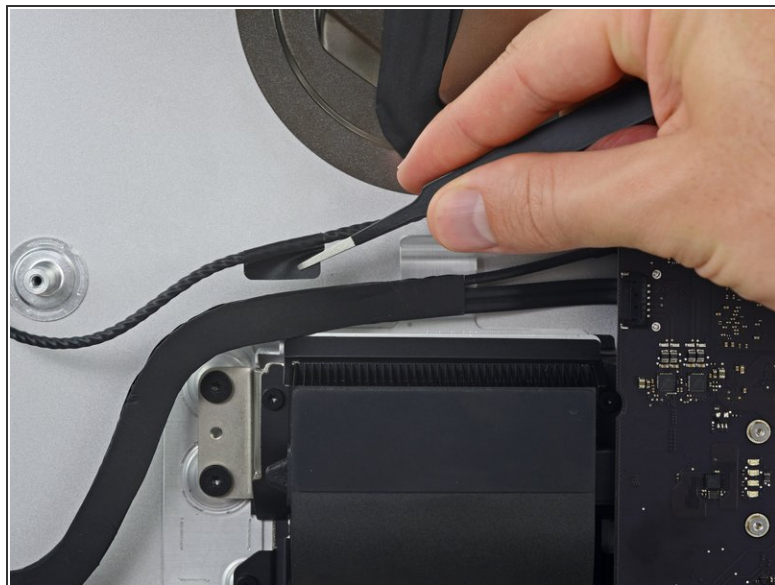
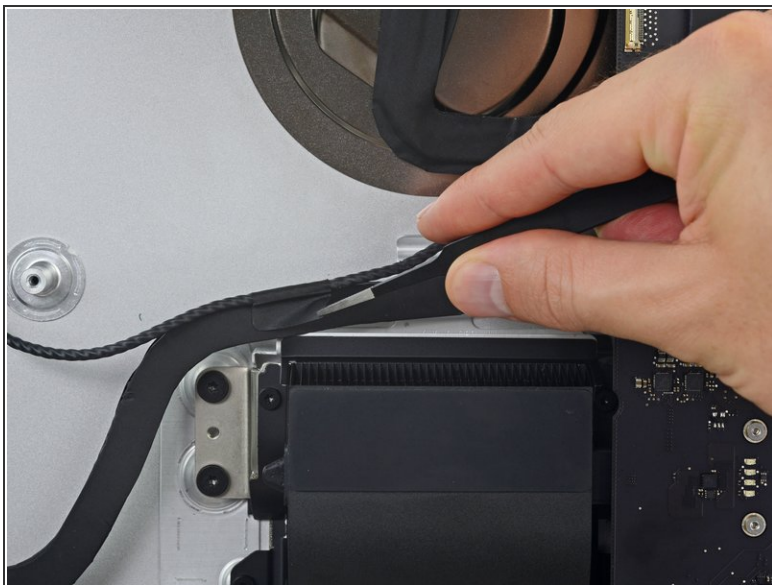
- De-route the left speaker cable by pulling it straight up out of the retaining clip in the back of the rear enclosure.

Step 3



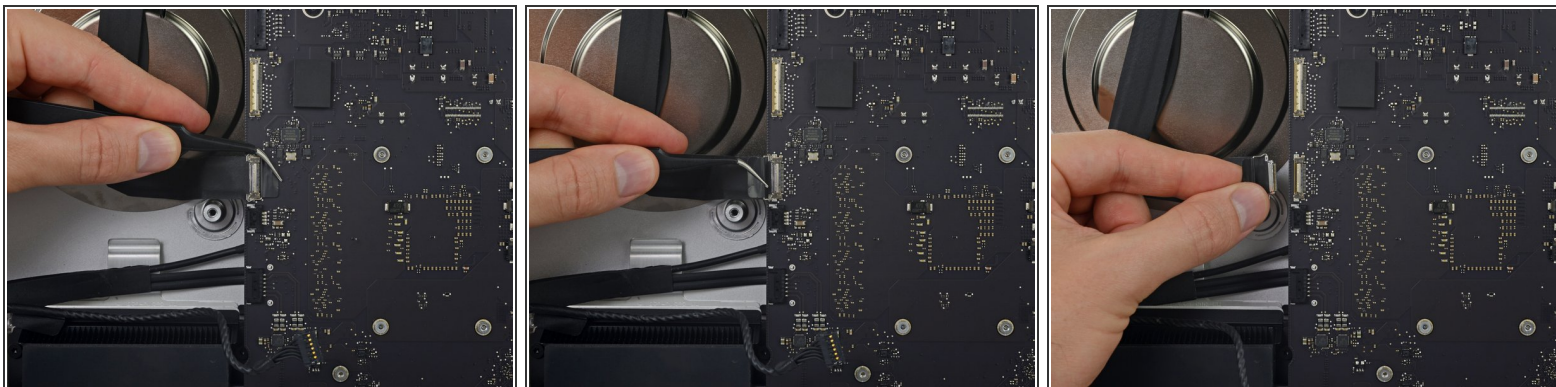
- Similarly to the previous step, de-route the SATA and power cables by pulling the braid straight up out of the retaining clip.

Step 4



- Peel up the piece of tape connecting the left speaker connector to the SATA power and data cables.

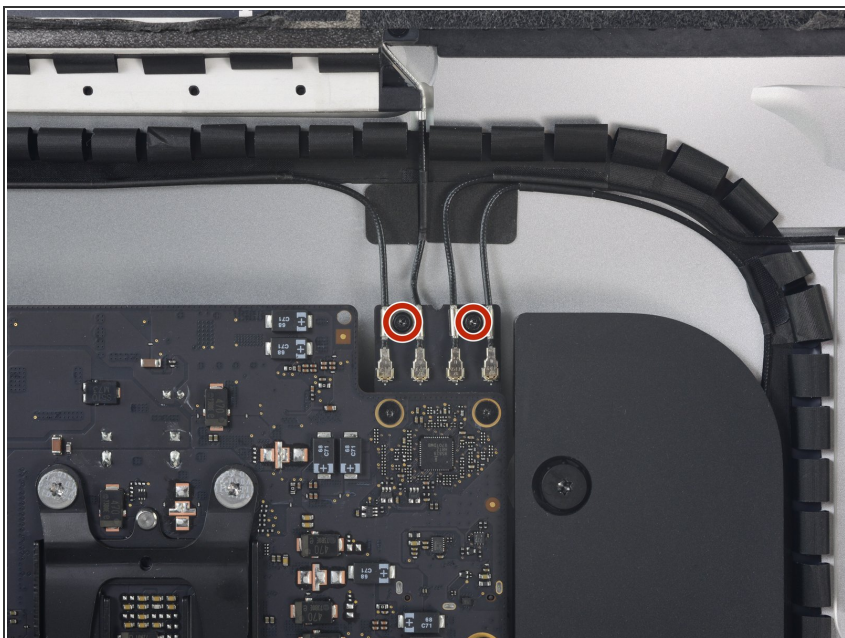
Step 5



- Flip up the metal retaining bracket on the FaceTime camera cable connector.
- Pull the FaceTime camera cable straight out of its socket on the logic board.

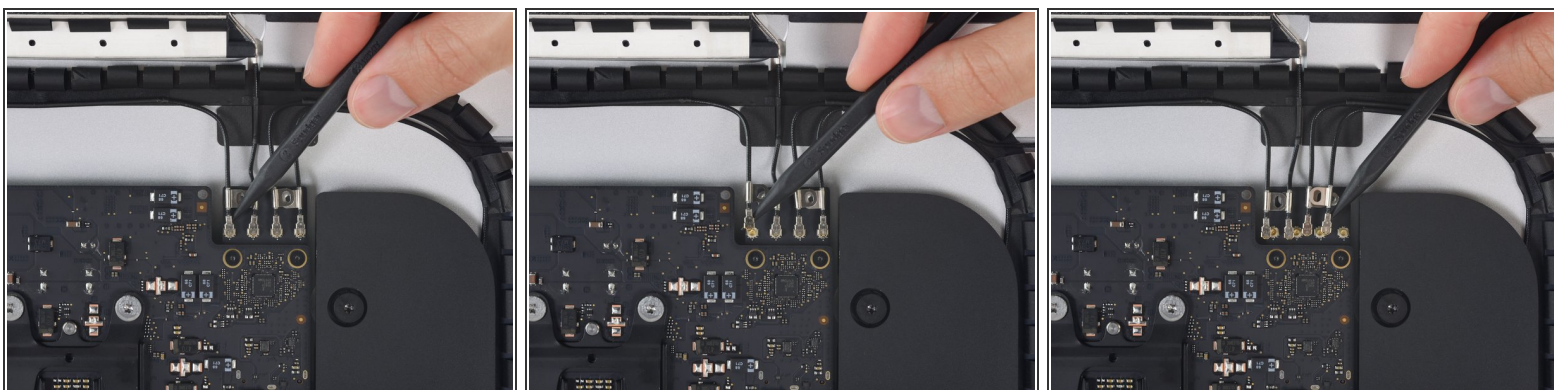
⚠ This is a delicate connector that can be easily damaged.

Step 6



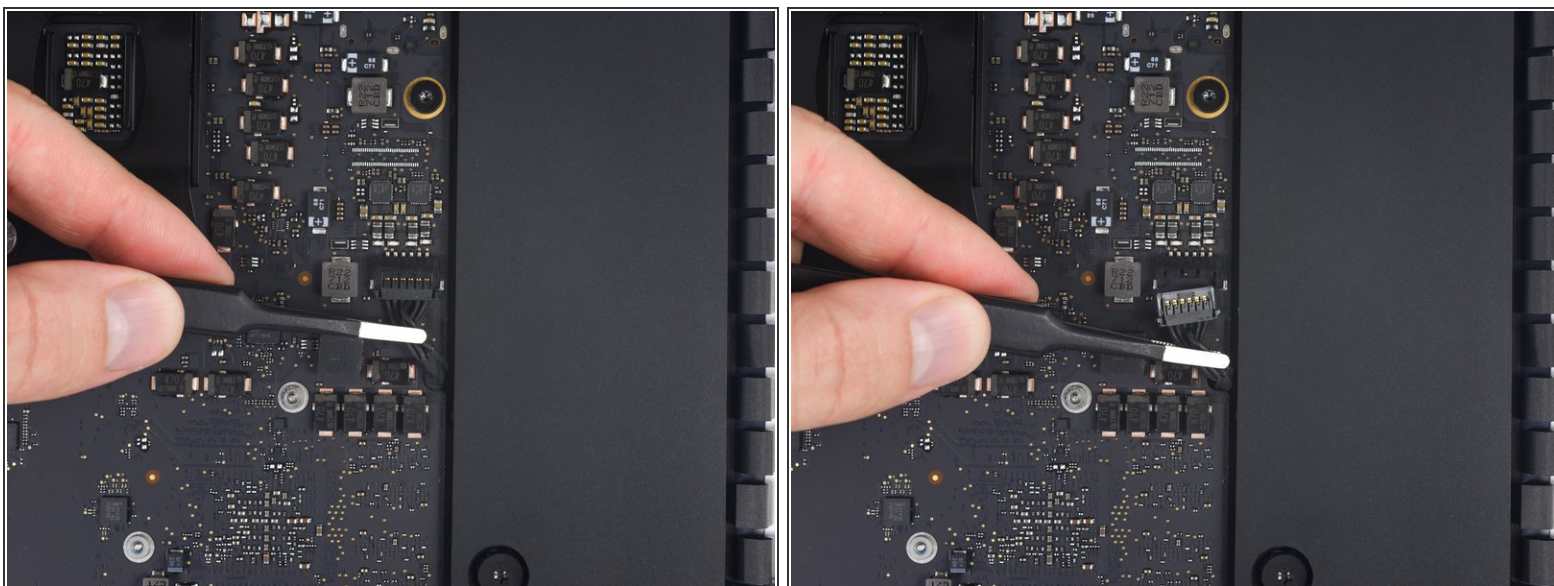
- Remove the two 4.0 mm T5 Torx screws securing the four antenna connectors to the AirPort/Bluetooth card.

Step 7



- Disconnect all four antenna connectors by prying them straight up from their sockets on the AirPort/Bluetooth card.

Step 8




- Gently pull the right speaker cable connector parallel to the logic board, straight out of its socket on the logic board.

Step 9



- Use the flat edge of a spudger to pry the headphone jack cable connector from its socket on the logic board.

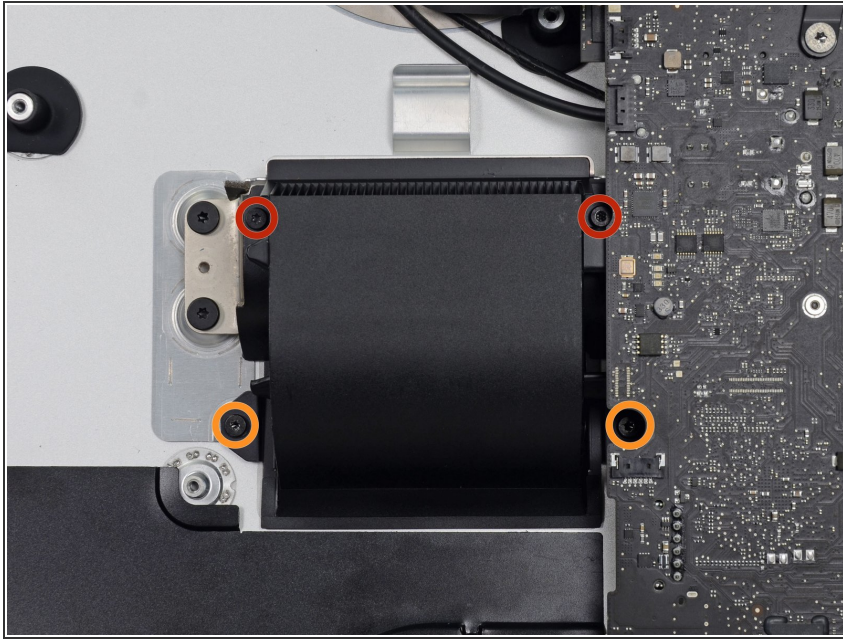
 Push the cable slightly to the right.

Step 10



- Peel off the tape covering the exhaust duct.

Step 11



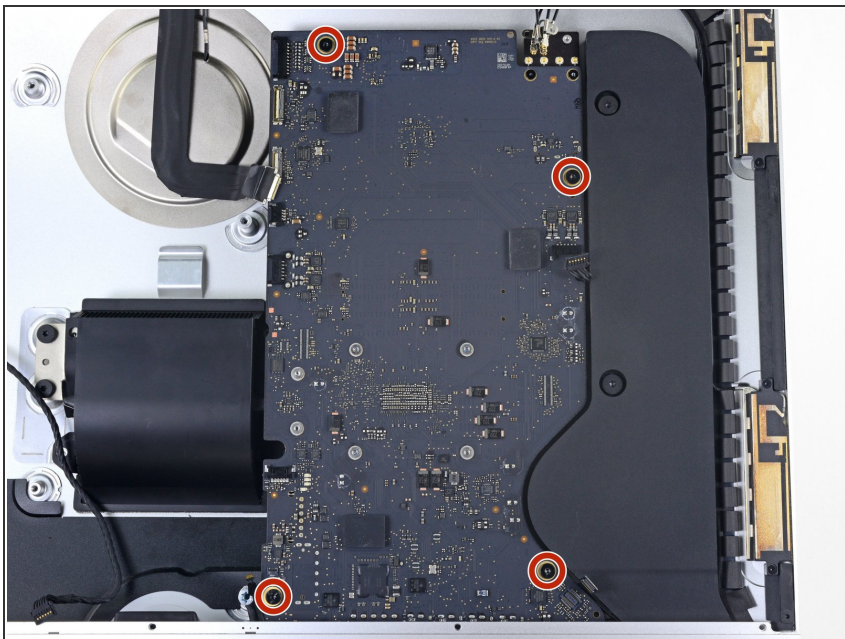
- Remove the following T8 Torx screws securing the exhaust duct to the rear enclosure:
 - Two 6.2 mm screws
 - Two 4.7 mm screws

Step 12



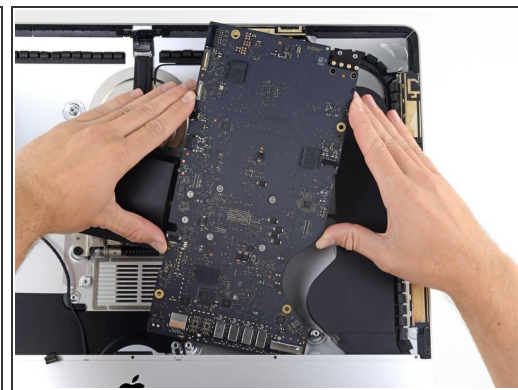
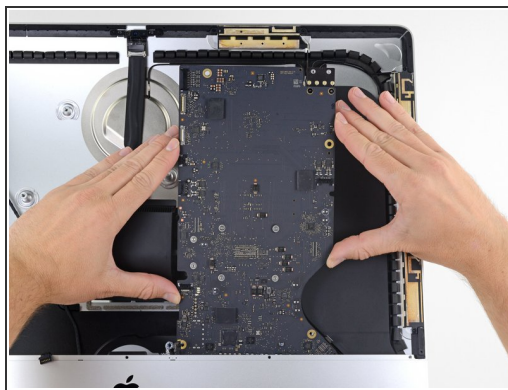
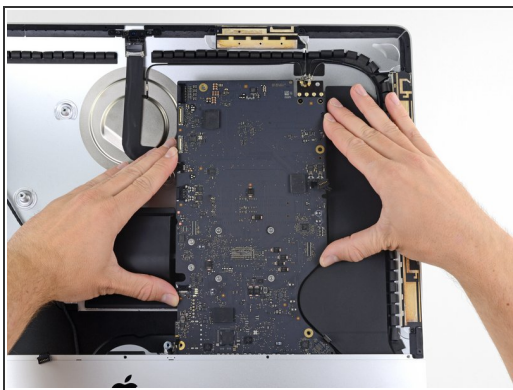
- Use the tip of a spudger to flip open the retaining flap on the microphone ribbon cable [ZIF socket](#).
 - ⚠ Be sure you are prying up on the hinged retaining flap, **not** the socket itself.
- Gently pull the microphone ribbon cable straight out of its socket.

Step 13



- Remove the four 7.3 mm T8 Torx screws securing the logic board to the rear enclosure.

Step 14



- Tilt the top of the logic board away from the rear enclosure.



When removing and installing the logic board, take care not to damage the delicate microphone ribbon cable at the bottom left.

- Lift the logic board straight up and out of the iMac.



Be careful not to snag the board on any of the rear enclosure's screw posts.

Step 15



- ✦ When reassembling your iMac, be sure to align the exterior I/O ports correctly. The logic board can sit crooked even when secured with all its screws.
 - Use a USB flash drive and/or ethernet cable to ensure the logic board is aligned correctly while you screw it in.

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