



iMac Intel 21.5" Retina 4K Display (2017) Logic Board Assembly Replacement

Prerequisite for removing the logic board from a 21.5" Retina 4K 2017 iMac EMC 3069.

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INTRODUCTION

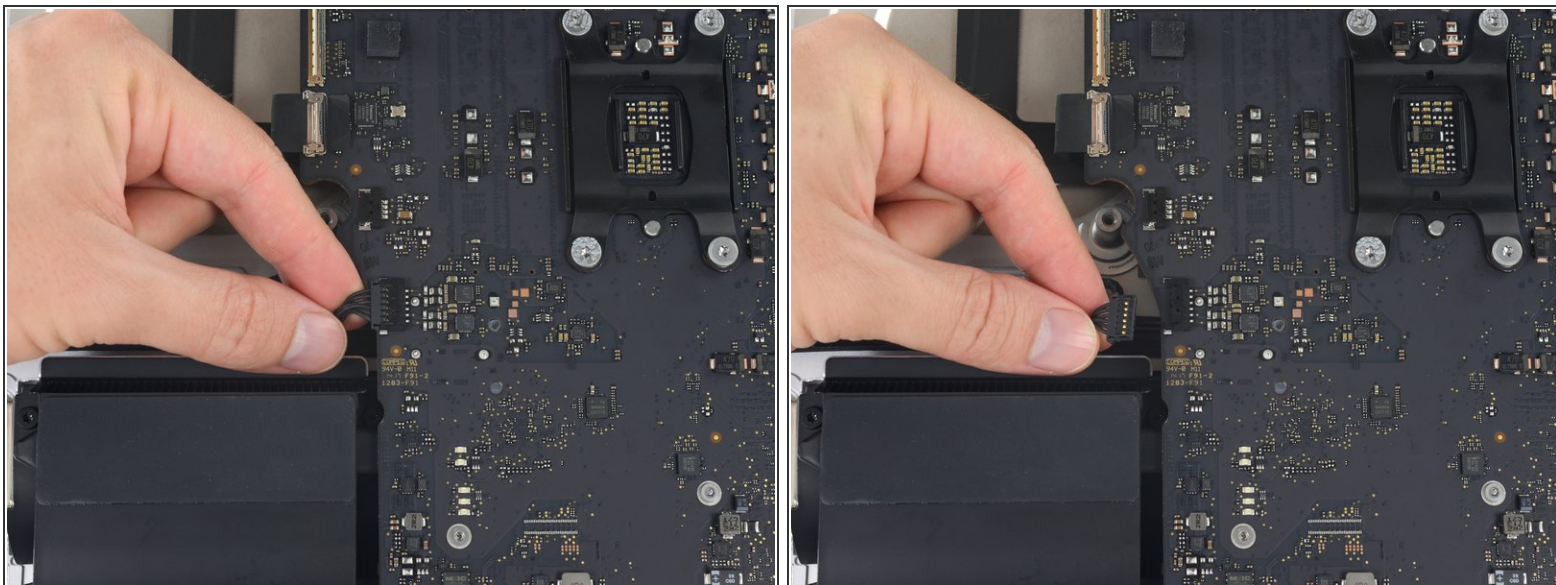
Prerequisite only guide for removing the logic board assembly from a 21.5" Retina 4K 2017 iMac.



TOOLS:

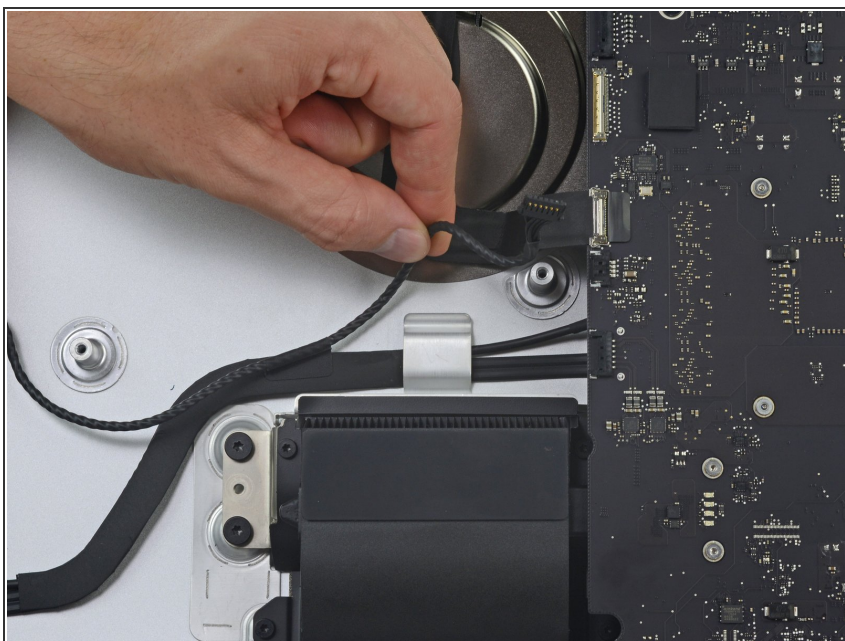
- [Spudger](#) (1)
 - [T8 Torx Screwdriver](#) (1)
 - [T5 Torx Screwdriver](#) (1)
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Step 1 — Logic Board Assembly



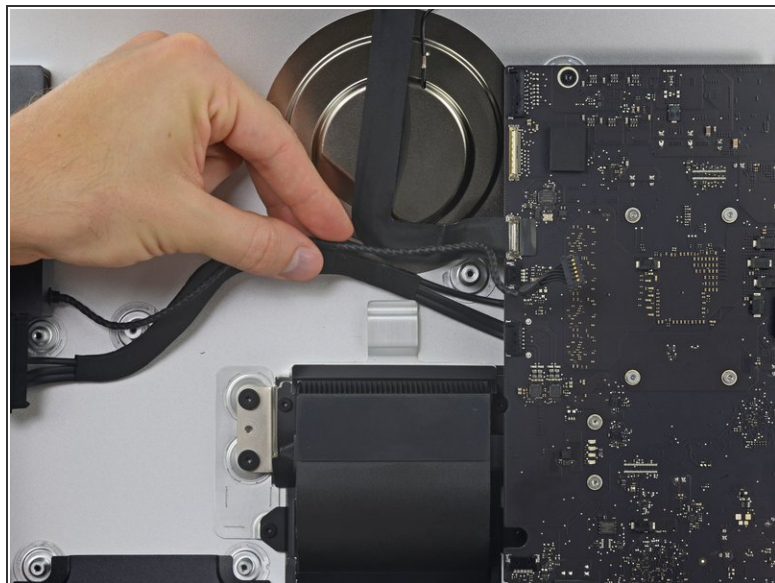
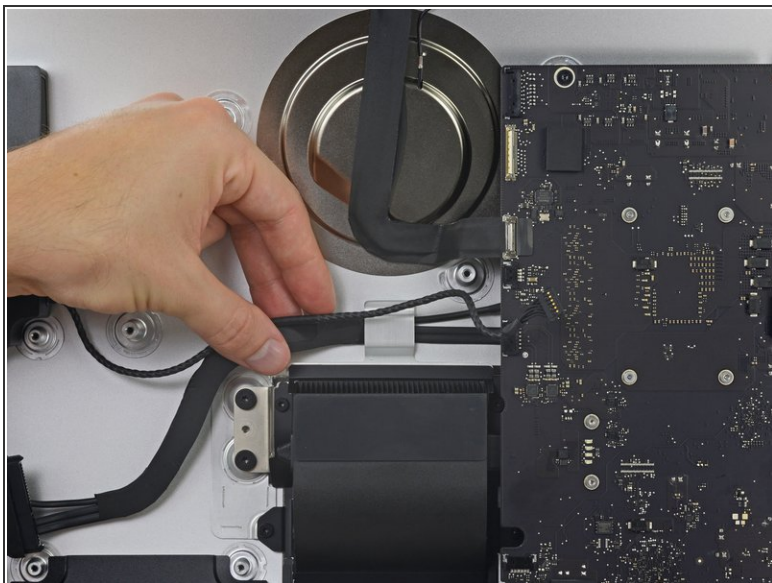
- Gently pull the left speaker cable straight out of its socket on the logic board.

Step 2



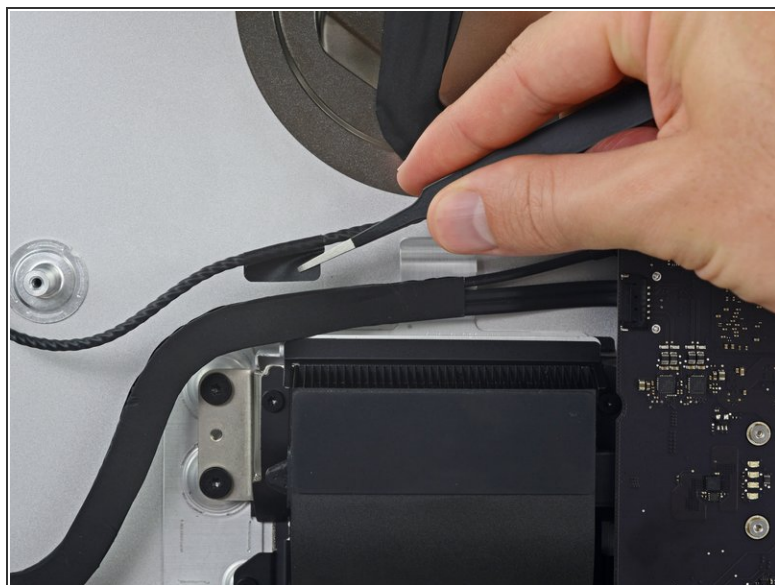
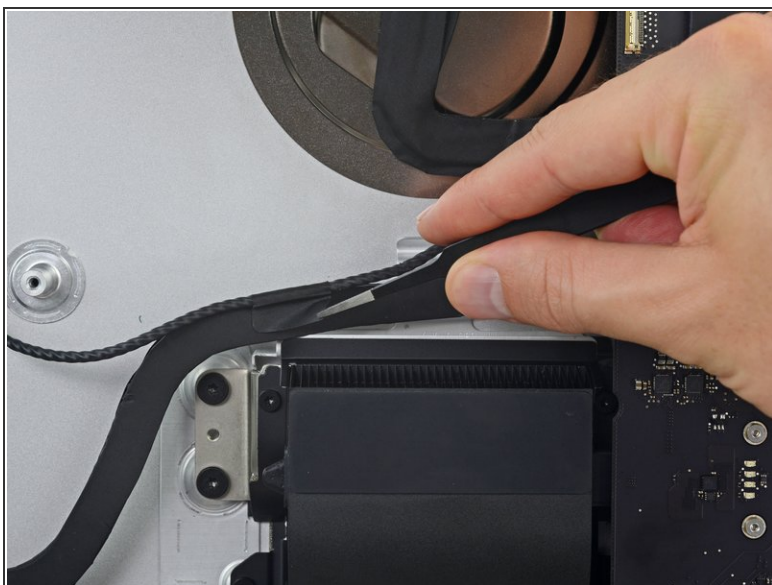
- De-route the left speaker cable by pulling it straight up out of the retaining clip in the back of the rear enclosure.

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.

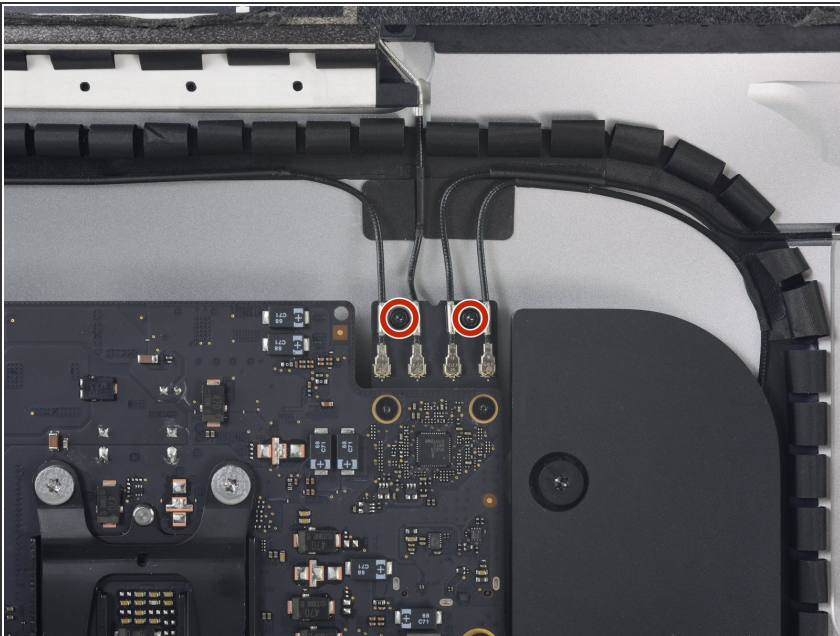
Step 5



- 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.

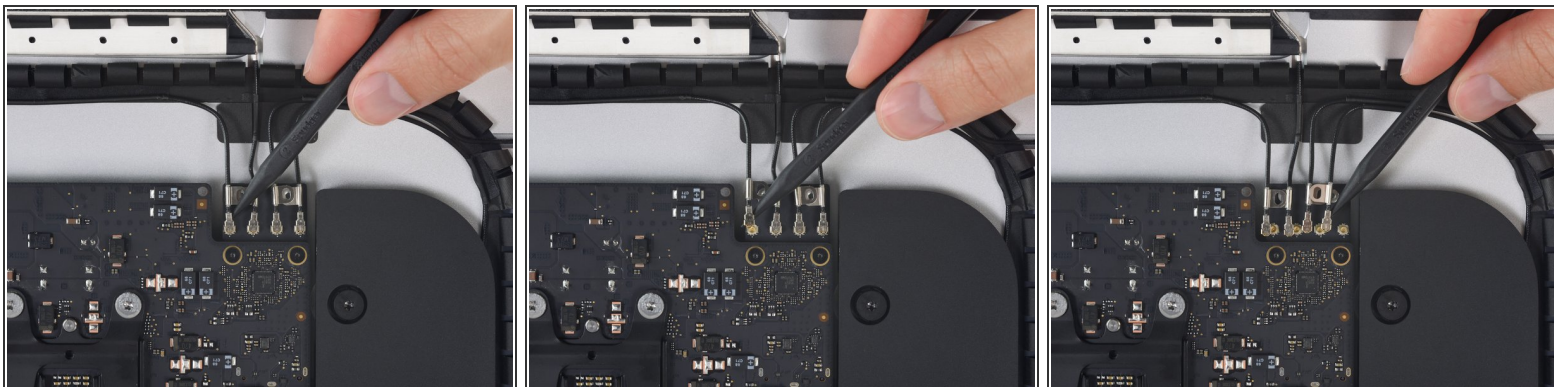
⚠ This is a delicate connector that can be easily damaged.

Step 6



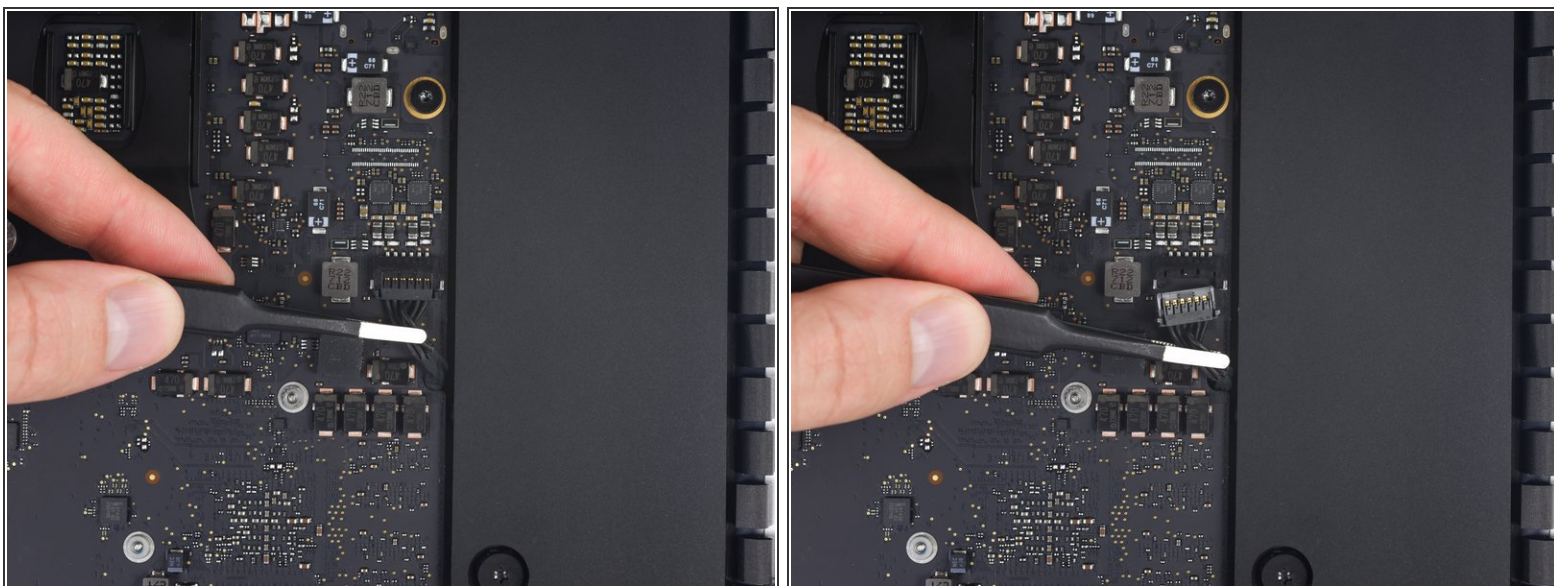
- Remove the two 4.0 mm T5 Torx screws securing the four antenna connectors to the AirPort/Bluetooth card.

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 straight down and 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.

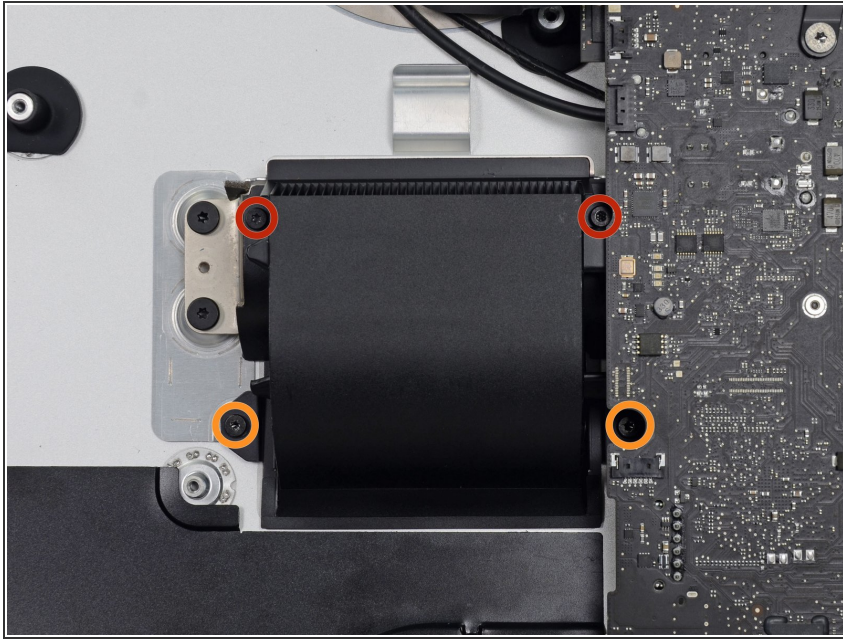
 Push the cable slightly to the right.

Step 10



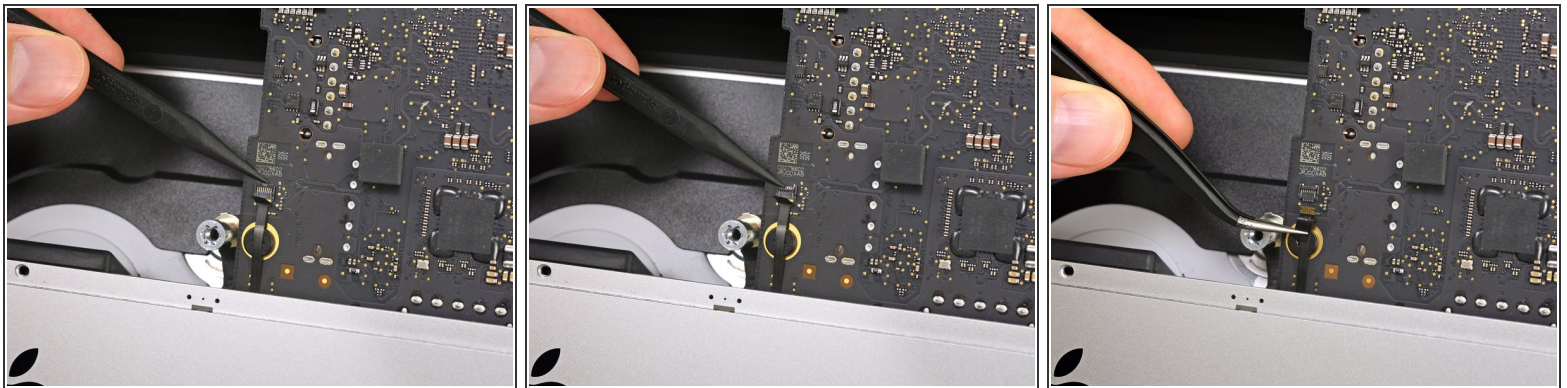
- Peel off the tape covering the exhaust duct.

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.
- As you tilt the logic board, pull the right speaker connector to the right and out of the way of the board.
- 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 very careful 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 keep the logic board seated correctly while you tighten the screws.

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