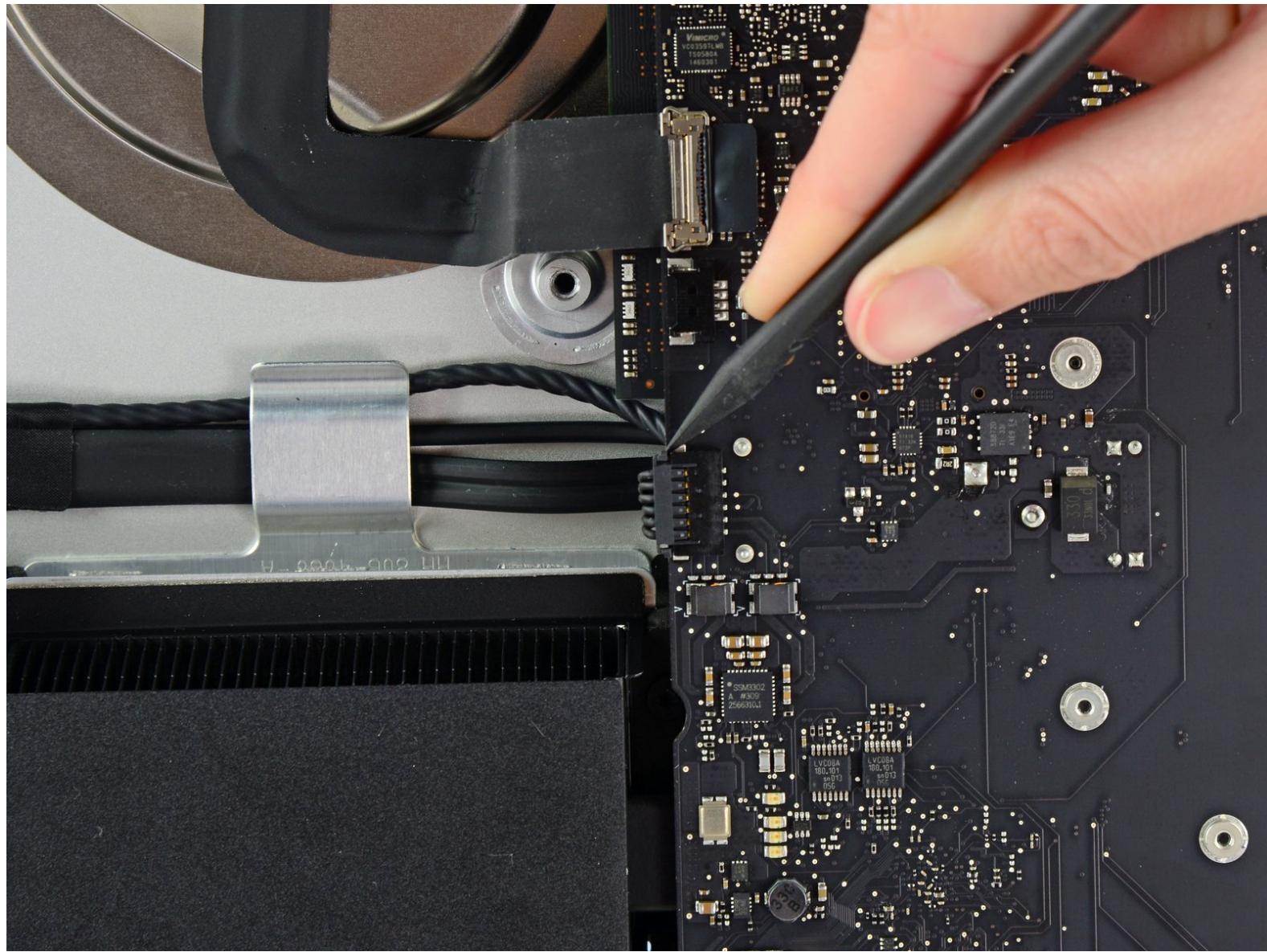




# iMac Intel 21.5" EMC 2638 Logic Board Assembly Replacement

Prereq for removing logic board.

Written By: Sam Goldheart



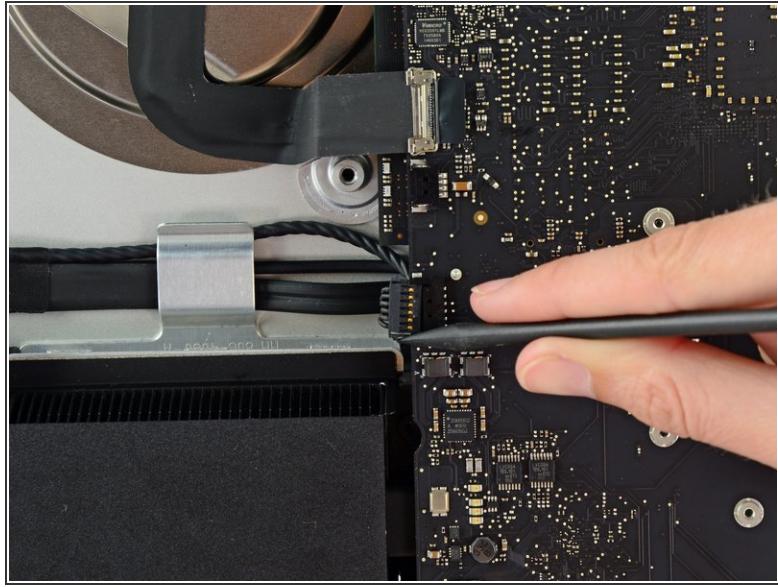
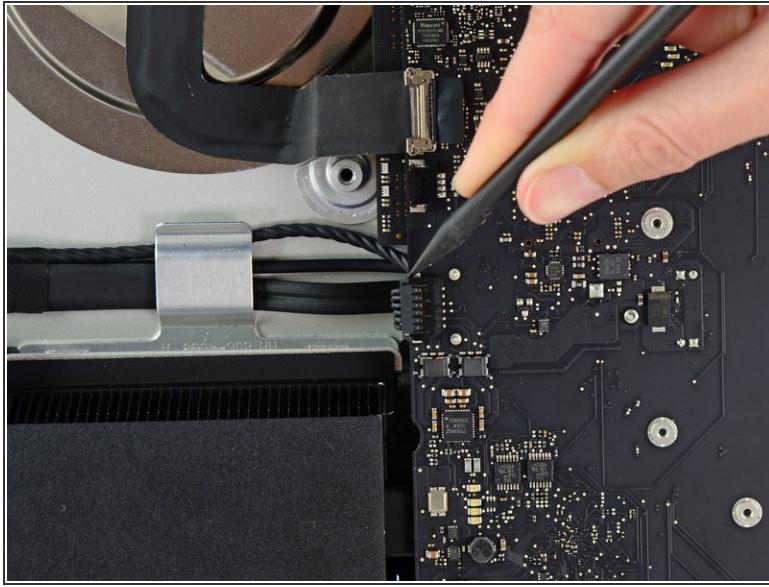
## INTRODUCTION

Prereq for removing logic board.

### TOOLS:

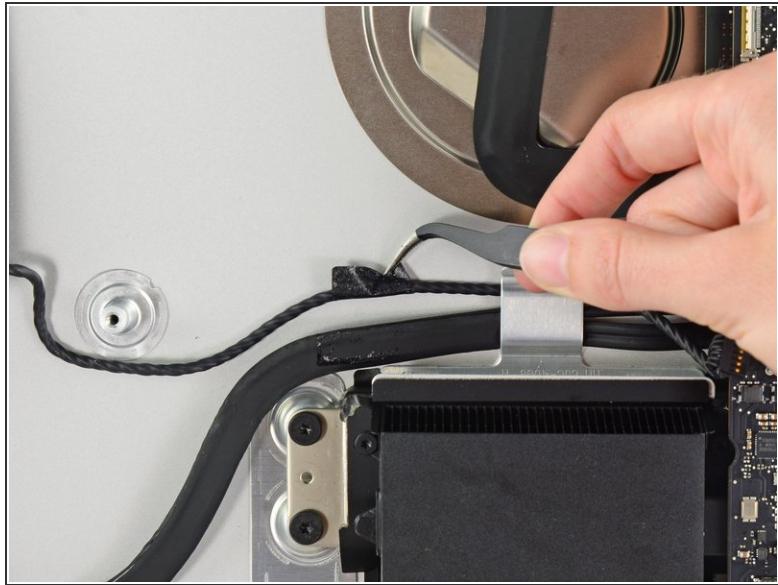
- [Spudger](#) (1)
- [Tweezers](#) (1)
- [T8 Torx Screwdriver](#) (1)

## Step 1 — Logic Board Assembly



- Push on each side of the left speaker cable connector with the tip of a spudger and gently *walk* it out of its socket.

## Step 2



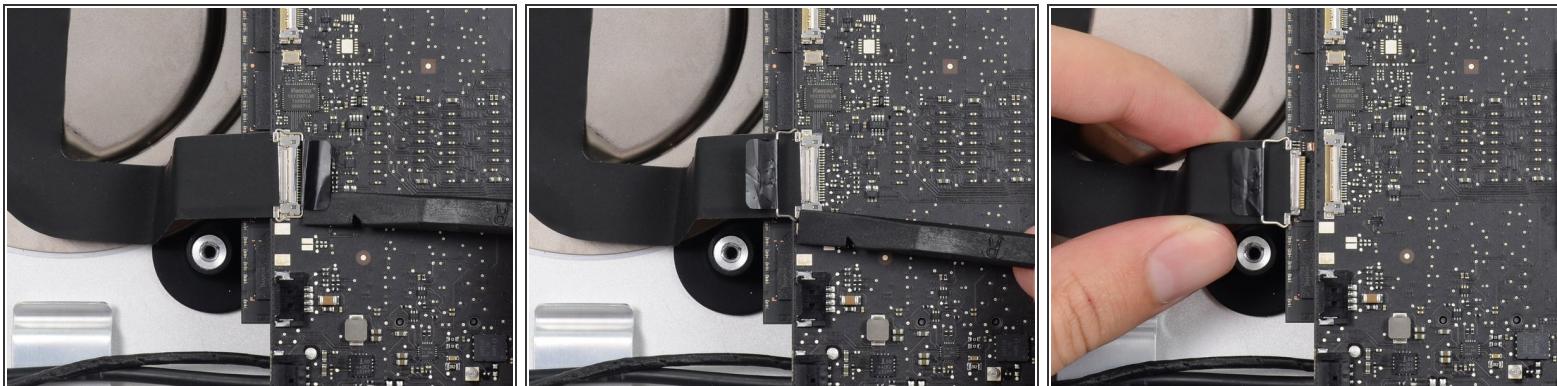
ⓘ If necessary, use a pair of tweezers to gently peel the tape securing the left speaker cable to the SATA data/power cable.

## Step 3



- De-route the left speaker cable by pulling it straight up out of the retaining clip in the back of the rear enclosure.
- In a similar fashion, lift the combo SATA data/power cable up out of the retaining clip.

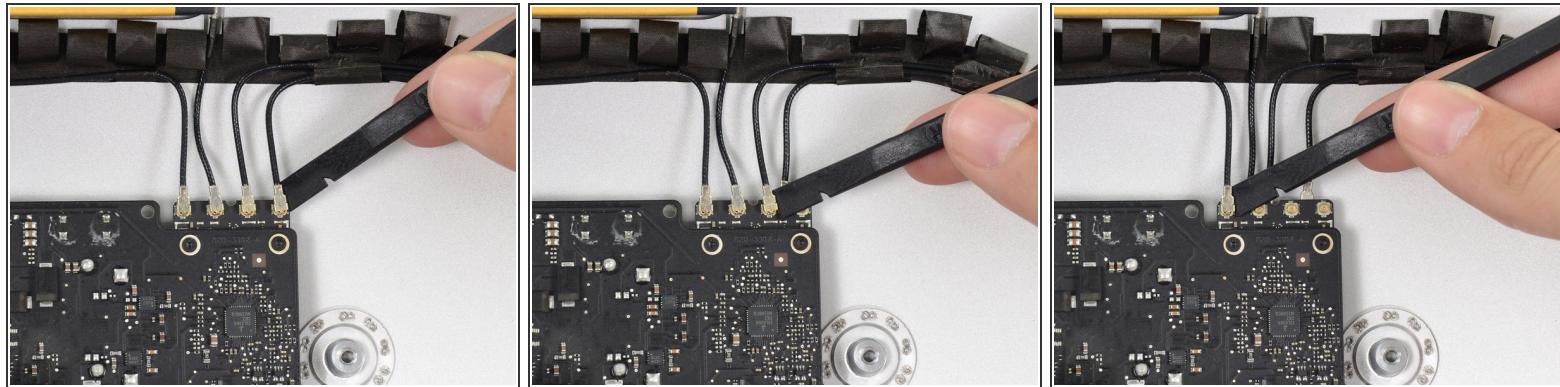
## Step 4



- Use the flat edge of a spudger to flip up the metal retaining bracket on the iSight camera cable connector.
- Pull the iSight camera cable straight out of its socket on the logic board.

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

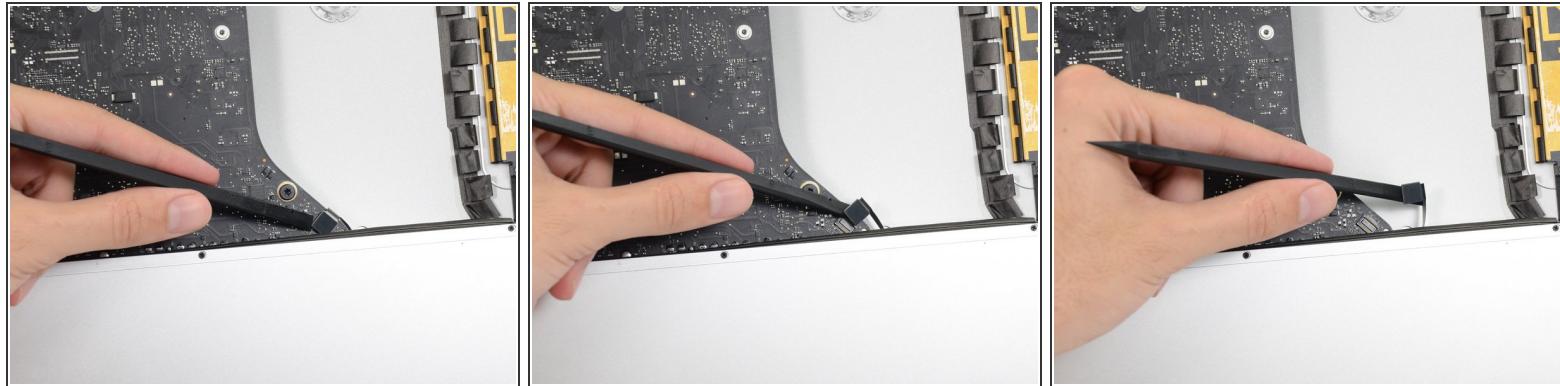
## Step 5



- Use the flat edge of a spudger to disconnect each of the four antenna connectors from the AirPort/Bluetooth card.

 Note the original positions for each connector when reconnecting the cables.

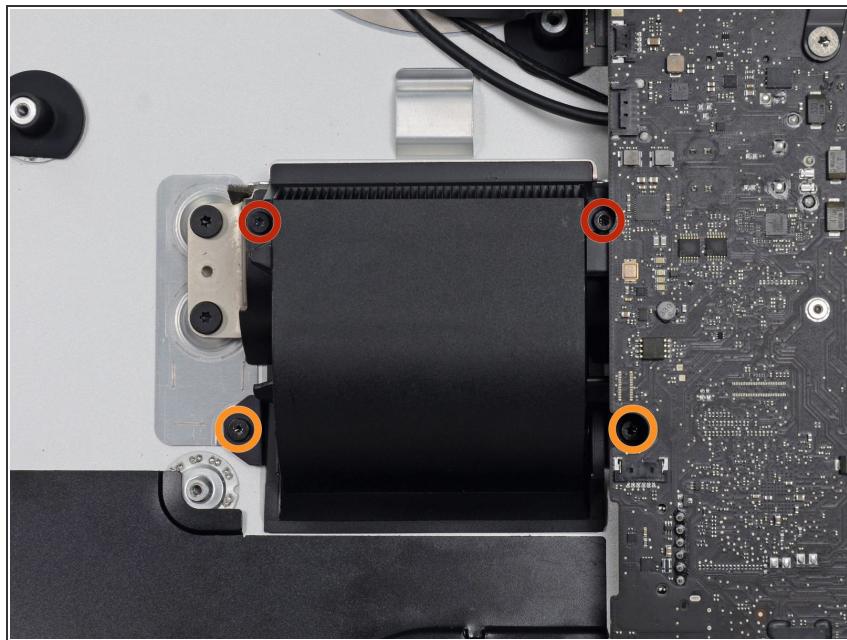
## Step 6



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

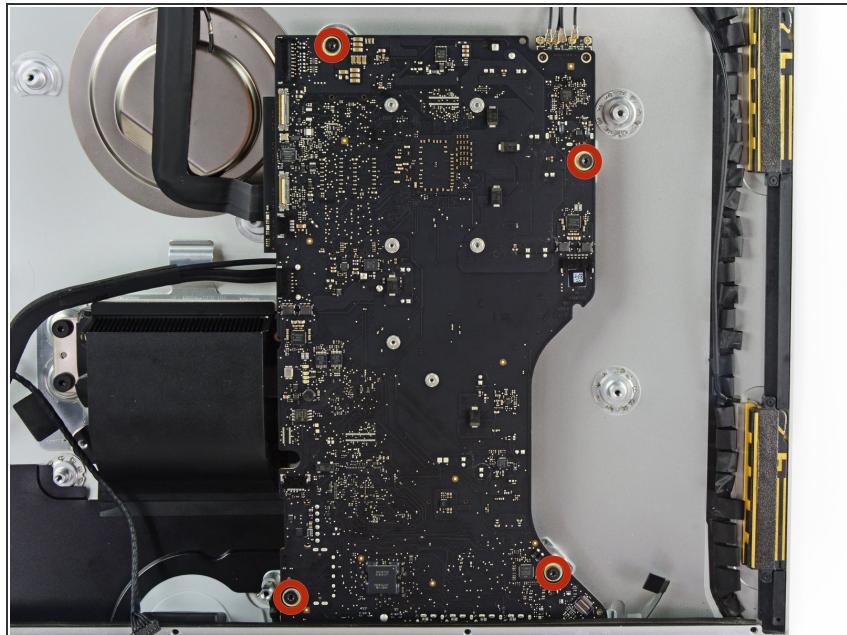
 Push the cable slightly to the right to clear it for the removal of the logic board.

## Step 7



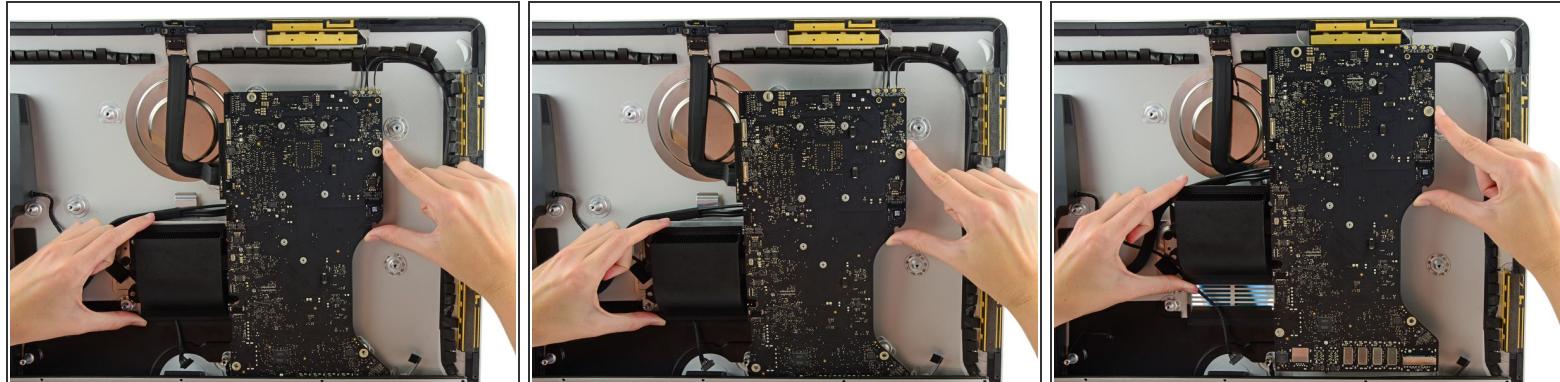
- Remove the following screws securing the exhaust duct to the rear enclosure:
  - Two 6.3 mm T8 screws
  - Two 4.7 mm T8 screws

## Step 8



- Remove the four 7.2 mm T10 screws securing the logic board to the rear enclosure.

## Step 9



- Tilt the top of the logic board away from the rear enclosure.
- Lift the logic board straight up and out of the iMac.

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

**ⓘ** The I/O boards at the bottom of the logic board will be the greatest challenge. It is recommended to pull gently to avoid any damage.

## Step 10



- When installing the logic board, take care 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 seated correctly while you screw it in.

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