iMac Intel 20" EMC 2133 and 2210 Ambient Temperature Sensor Replacement

Make sure to keep an accurate temperature...

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INTRODUCTION

Make sure to keep an accurate temperature reading by replacing your ambient temperature sensor.

🔧 TOOLS:

Heavy-Duty Suction Cups (Pair) (1)
Phillips #1 Screwdriver (1)
Spudger (1)
TR10 Torx Security Screwdriver (1)
T6 Torx Screwdriver (1)
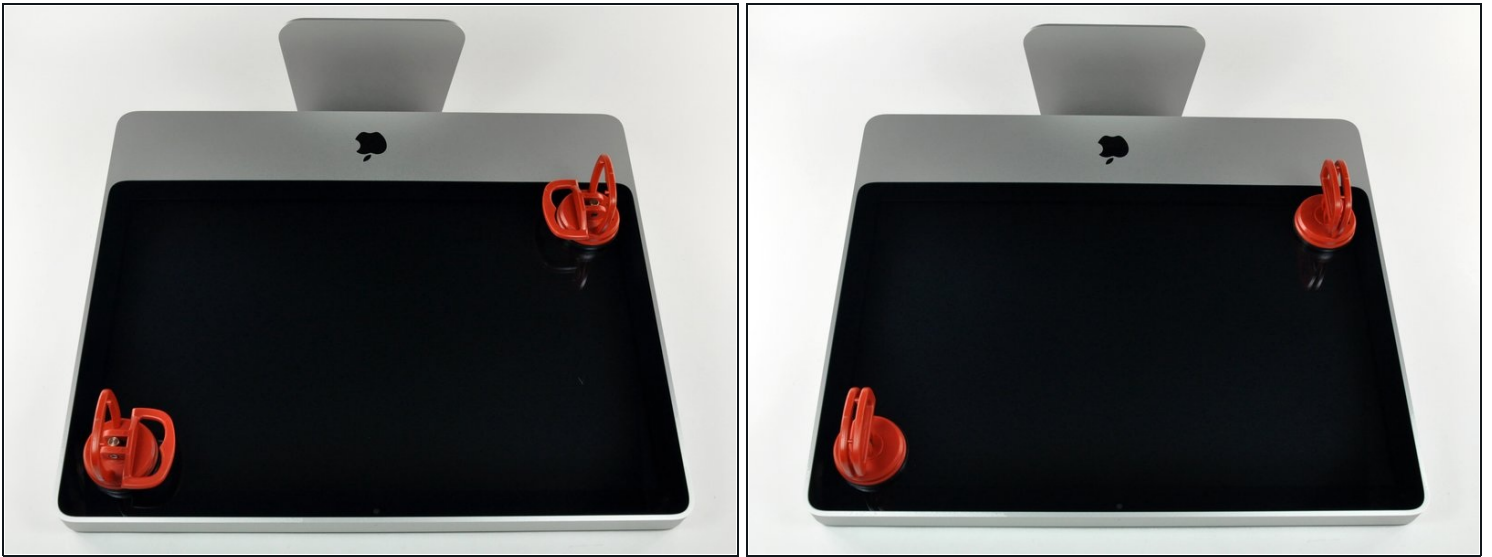TR8 Torx Security Screwdriver (1)

Step 1 — Access Door

- ● Loosen the single Phillips screw in the center of the access door.

- ⓘ This screw is captive in the access door.

- ● Remove the access door from your iMac.

Step 2 — Glass Panel

ⓘ The glass panel is fixed onto the front bezel with fourteen magnets around its perimeter.

● Stick two suction cups to opposing corners of the glass panel.

ⓘ To attach the [suction cups](#) we sell, first position the suction cup with the movable handle parallel to the face of the glass panel. While lightly holding the suction cup against the glass, raise the movable handle until it is parallel with the other handle.

ⓘ If your suction cups refuse to stick, try cleaning both the glass panel and the suction cup with a mild solvent such as Windex.

Step 3

- Gently pull the glass panel straight up off the iMac.

- ⚠️ The glass panel has several positioning pins around its perimeter. To avoid shearing these pins off the glass panel, be sure to only pull straight up during removal.

- ⬚ Be meticulous about cleaning the LCD and the inside face of the glass panel before reinstallation, as any fingerprints or dust trapped inside will be annoyingly visible when the display is on. Placing the glass flat, inside face down, on a fresh aluminum-foil surface is a good way to keep it clean.

Step 4 — Front Bezel

- Remove the following 12 screws securing the front bezel to the rear case:
  - Eight 13 mm T8 Torx.

  - Four 25 mm T8 Torx.

Step 5

- Place your hands at the top corners of the bezel (to the side) and lift the bezel 2-3cm from the body by working from the top. After this you can also disengage the bottom of the bezel (the memory modules will prevent the bottom of the bezel to detach first). When reassembling, start with the bottom of the bezel.

⚠️ The top of the bezel hosts a microphone attached to the logic board. Gently lift the bezel to not damage the microphone wiring or connector by accidentally pulling the cable.

ⓘ At this point, you can either detach the microphone cable and remove the bezel, or keep the microphone cable attached and rest the bezel on your work surface or the chassis of the Mac.

- **To fully detach the bezel**: disconnect the microphone cable connector, removing tape as necessary.

- **To keep it attached**, leave the microphone cable attached to the logic board, and place the bezel 'above' the chassis, with the microphone cable forming a hinge.
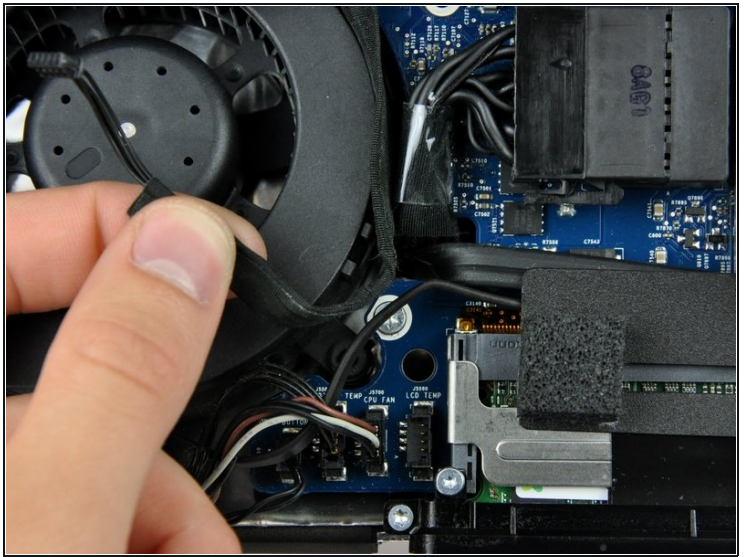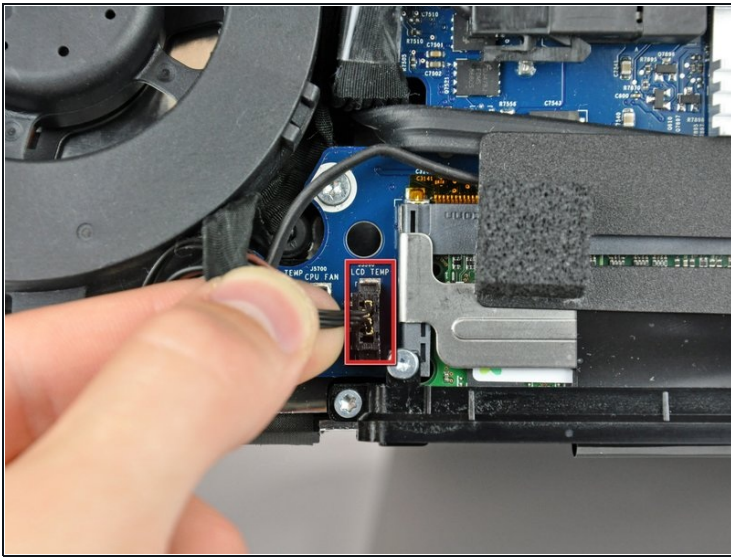
Step 6
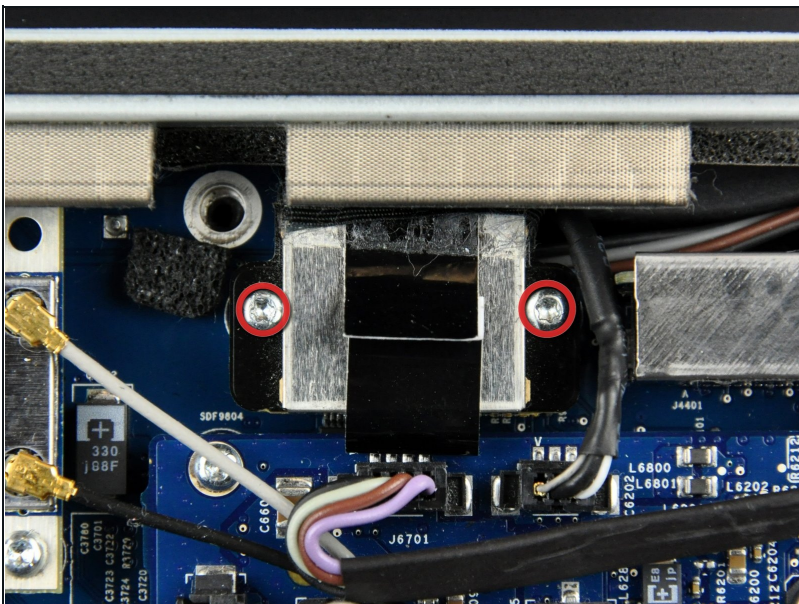

📌 When reassembling the bezel:

- be sure to tuck the microphone cable and connector into the void next to the camera board.

- Gently guide the microphone connector and cables through the ±1in long slot at the right of the iSight camera. Once the bezel is properly assembled, gently push the microphone connector and cable into the bezel through that slot.
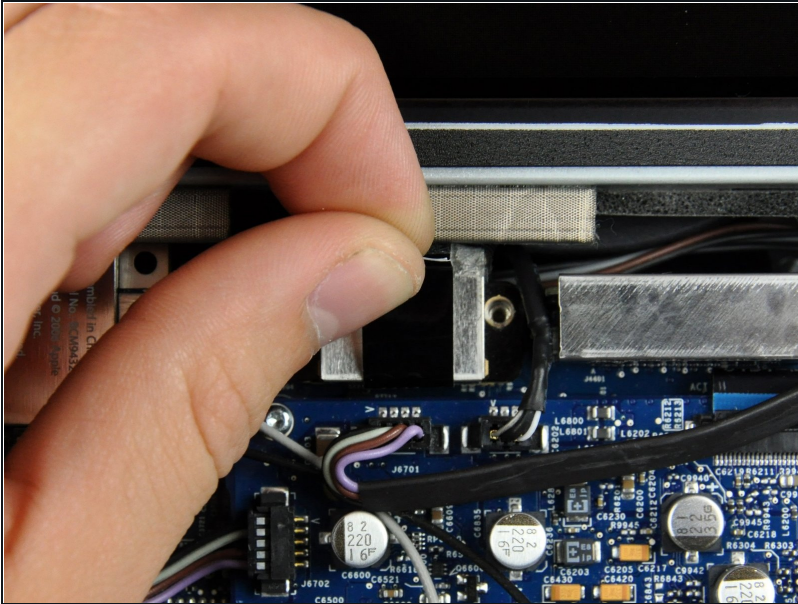
Step 7 — Display Panel

- Pull the LCD temperature sensor connector straight up out of its socket on the logic board.

- If necessary, de-route the LCD temperature sensor cable from behind the logic board.

ⓘ When you remove the LCD, check the routing of the LCD temperature display cable. On reinstalling the display, be sure this cable does not block one of the bottom screws for the front bezel.
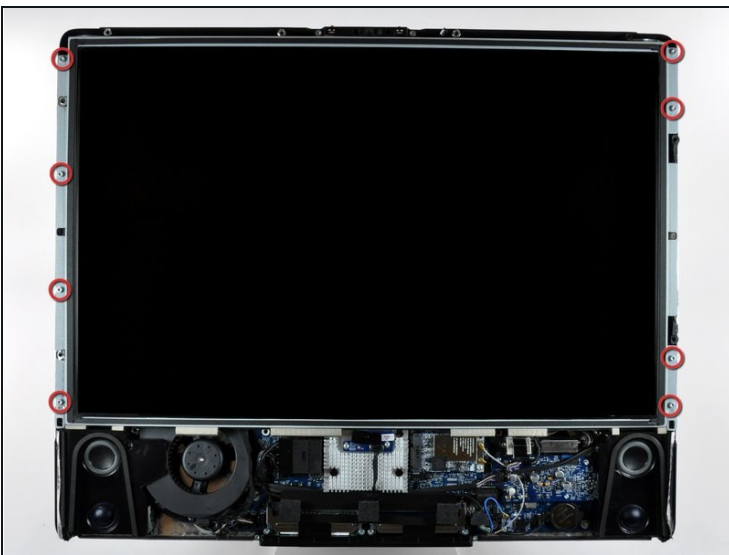
Step 8

- Remove the two 5.3 mm T6 Torx screws securing the data display cable to the logic board.
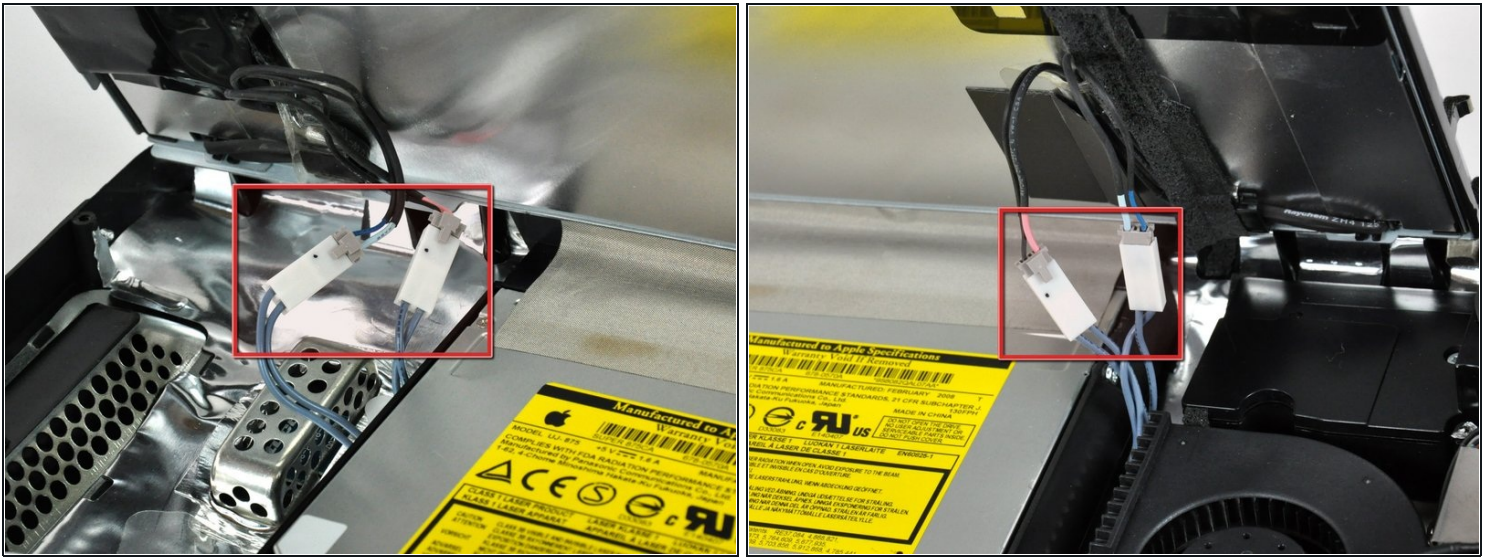
Step 9

- Use the attached black tab to pull the data display cable connector away from the logic board.
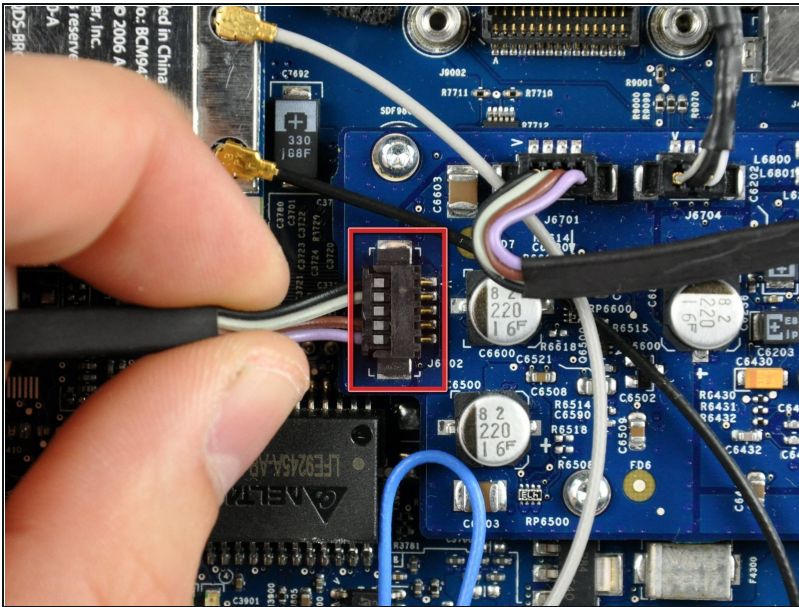
Step 10

- Remove the eight 12 mm T8 Torx screws securing the display panel to the rear case.
  - ⓘ Depending on the age of your driver, a T9 Torx bit may fit better.

- Lift the display panel from its left edge and rotate it toward the right edge of the iMac.

- With the display panel still lifted, disconnect the four inverter cables.

- ⊡ During reinstallation, place the four inverter cable connectors in voids between components attached to the rear panel so the display panel will sit flush.

- ⓘ During reassembly, the order of the inverter cables is interchangeable within each socket.

- If you are replacing a hard drive and have an extra set of hands, it is possible to reach in and remove the drive without disconnecting anything but the LCD temp and display connector in the previous step with the LCD in its propped position.
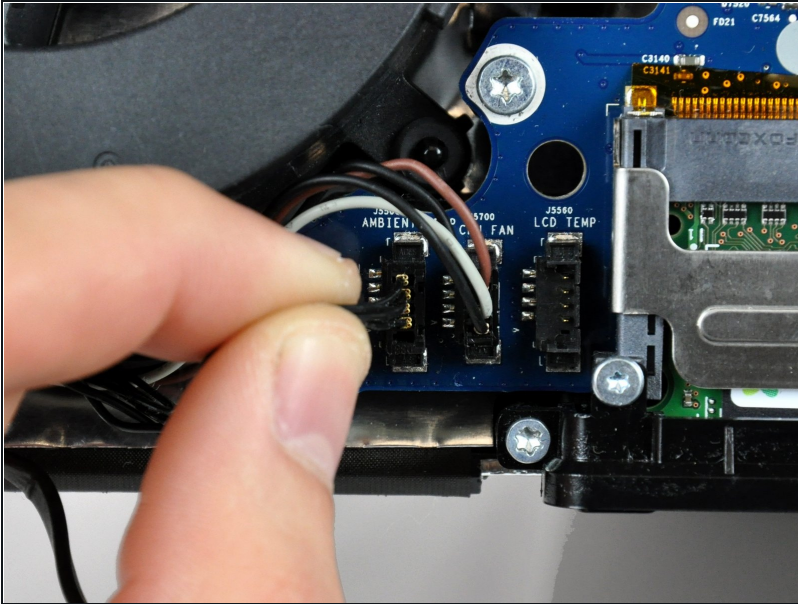
Step 12 — Left Speaker

- Disconnect the left speaker cable connector from the audio board by pulling it straight away from its socket.

- ⓘ Pull the connector parallel to the face of the logic board.

Step 13

- De-route the left speaker cable from the channel in the CPU fan. Continue completely de-routing the cable through the undersides of the IR board and heat sink.

Step 14

- Disconnect the ambient temperature sensor cable by pulling its connector straight up off the logic board.
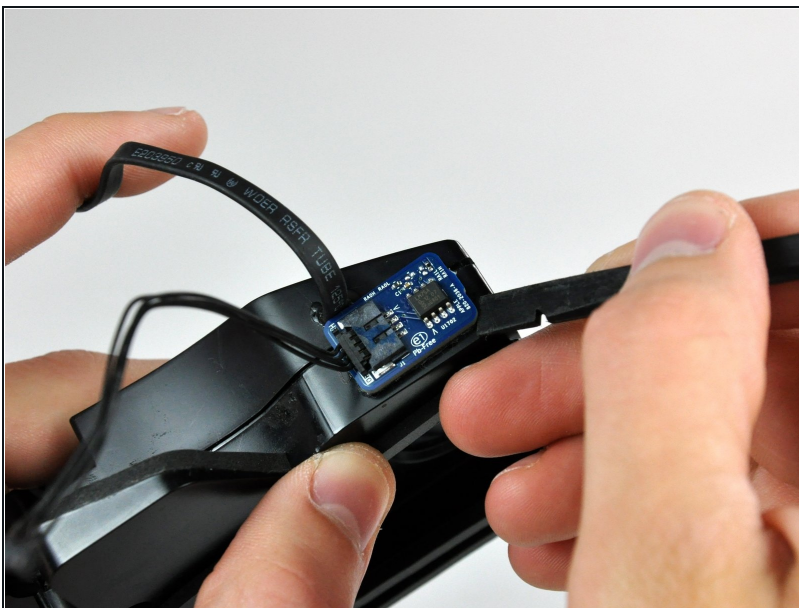
Step 15

- If necessary, de-route the ambient temperature sensor cable from under the power button cables.

Step 16

- Remove the single 28 mm T10 Torx screw securing the left speaker to the rear case.

- Lift the left speaker up and out of the rear case. Don't try to slide the speaker out, since there is a plastic mounting pin under the top end of the speaker housing that holds it in place.

Step 17 — Ambient Temperature Sensor

- Use the flat end of a spudger to pry the ambient temperature sensor off the adhesive securing it to the left speaker.

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