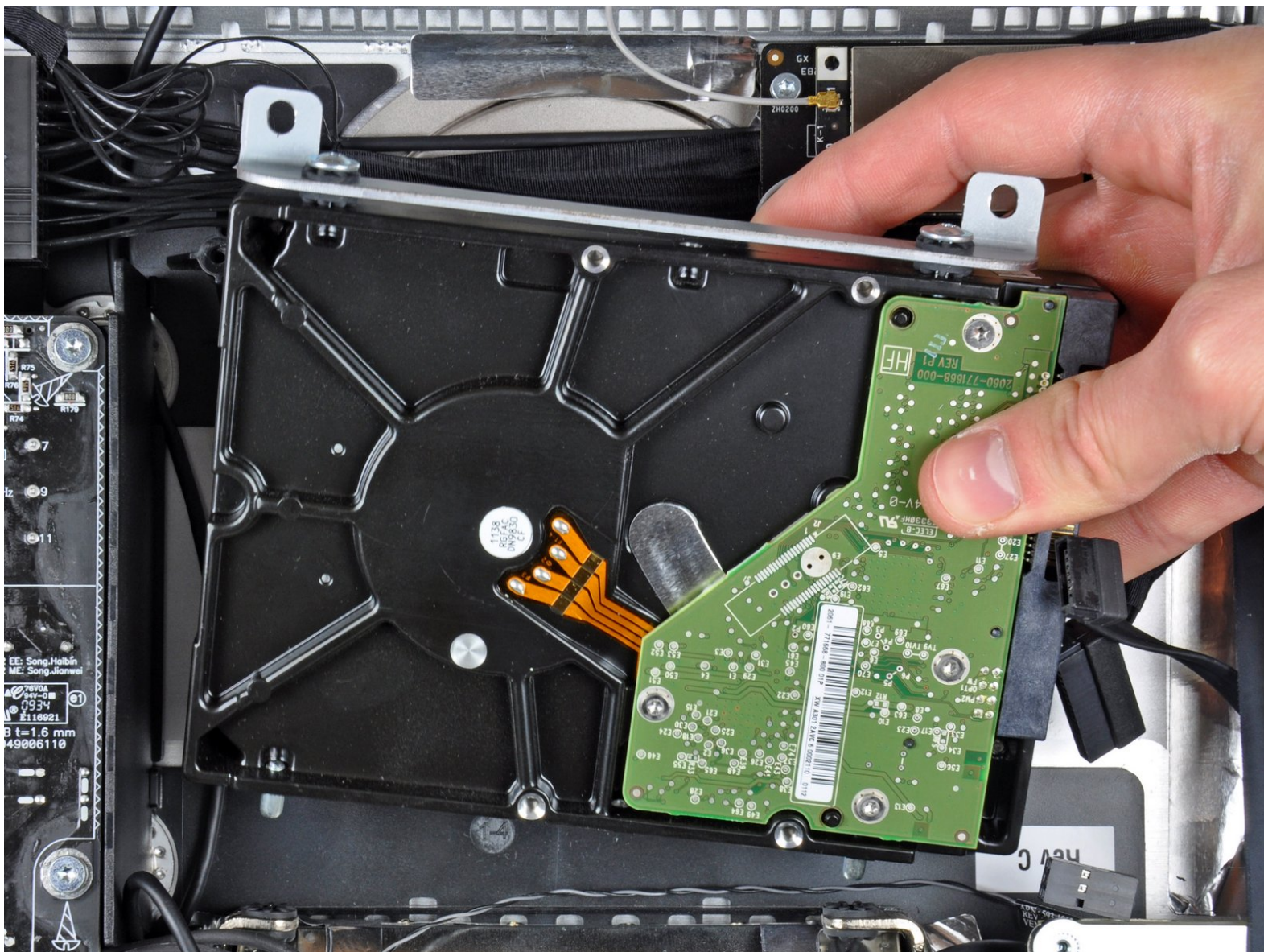




iMac Intel 27" EMC 2390 Hard Drive Replacement

Replace the hard drive in your iMac Intel 27" EMC 2390.

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INTRODUCTION

Upgrade your hard drive for more storage space!

This guide also includes steps to upgrade your iMac's hard drive with a SSD. It describes how to install the SSD's temperature sensor so that the Mac's fans will operate at the correct speed.

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.



TOOLS:

- [Phillips #1 Screwdriver](#) (1)
- [Heavy-Duty Suction Cups \(Pair\)](#) (1)
- [Paper Clip](#) (1)
- [T10 Torx Screwdriver](#) (1)
- [T8 Torx Screwdriver](#) (1)
- [Tweezers](#) (1)



PARTS:

- [iMac Intel 21.5" and 27" Late 2009-Mid 2010 SSD Upgrade Bundle](#) (1)
- [Universal Drive Adapter](#) (1)
- [1 TB SATA Desktop Hard Drive](#) (1)
- [2 TB SATA Desktop Hard Drive](#) (1)
- [3 TB SATA Desktop Hard Drive](#) (1)
- [4 TB 3.5" Hard Drive](#) (1)
- [2 TB SSD Hybrid 3.5" Hard Drive](#) (1)
- [1 TB SSD Hybrid 3.5" Hard Drive](#) (1)
- [4 TB SSD Hybrid 3.5" Hard Drive](#) (1)
- [iMac Intel 21.5" and 27" \(Late 2009-Mid 2010\) SSD Temperature Sensor](#) (1)

Step 1 — Glass Panel



- Stick a heavy-duty suction cup near each of the two top corners of the glass panel.
- ⓘ To attach the [suction cups](#), first position the suction cup with the movable handle parallel to the face of the glass panel (as highlighted in the second picture).
- While lightly holding the suction cup against the glass, raise the movable handle until it is parallel with the other handle (as highlighted by the third picture).
- ⓘ If your suction cups refuse to stick, try cleaning both the glass panel and the suction cup with a damp soft, lint-free cloth. (Dampen with distilled water, and if needed, an equal ratio of distilled water and white vinegar for best results.)
- ⚠ Do not use the suction cups to carry the display glass because if one of them fails to stick, you could drop the screen and break it.
- ⓘ The original iMac box makes a good place to store the glass panel. Otherwise, a padded horizontal surface, like a towel on a desk will do nicely.

Step 2



- Gently lift the glass panel perpendicular to the face of the LCD enough to clear the steel mounting pins attached along the underside of the top edge of the glass panel.
- Pull the glass panel away from the lower edge of the iMac and carefully set it aside.
 - ⚠ Don't use the suction cups to carry the glass panel—if either one loses its grip, the panel could fall and break.
 - ⚠ After setting the glass panel down safely, be sure to release the suction cups, as the suction force over time can crack the glass.
- 🔧 During reinstallation, be sure to meticulously clean the inside of the glass panel and the face of the LCD as any dust or fingerprints trapped inside will be annoyingly visible when the machine is turned on.

Step 3 — Display



- Remove the eight T10 Torx screws securing the LCD to the outer case.

Step 4



- Carefully lay the iMac stand-side down on a flat surface.
- ⓘ Due to tight tolerances, you will have to use a thin hooked tool to lift the display out of the outer case. As seen in the third picture, we made one out of a bent paperclip.
- Use a thin hooked tool to lift one side of the top edge of the display by its steel outer frame.
- ⓘ After lifting the top edge of the display on one side, hold it out of the outer case while you use a hooked tool to lift the other side.
- ⚠ Do not lift the top edge of the display out of the outer case too far, as several short ribbon cables still connect the two components.

Step 5



- Using your fingers, carefully pull the vertical sync cable out of its socket on the LED driver board near the top left corner of your iMac.

⚠ Be sure to pull the connector parallel to the LED driver board, straight out of its socket.

Step 6



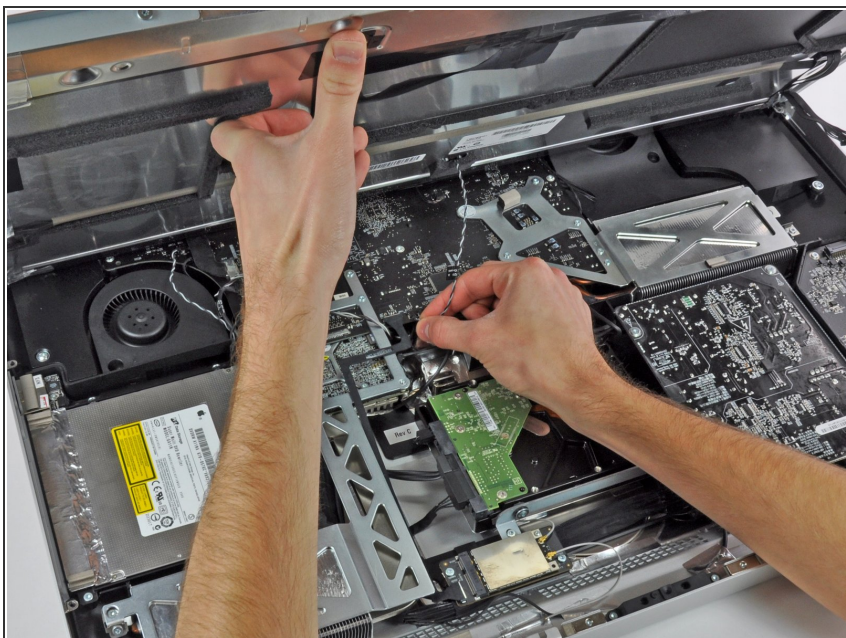
- Squeeze the two display data cable connector arms together to unlock it from its socket on the logic board.
- Pull the display data cable connector away from its socket on the logic board.

Step 7



- Rotate the display out of the outer case enough to disconnect the LED backlight power cable from the LED driver board.

Step 8



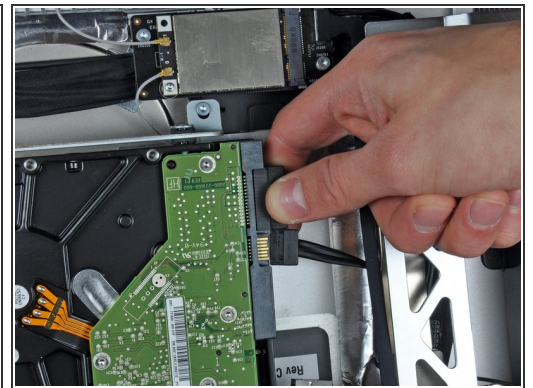
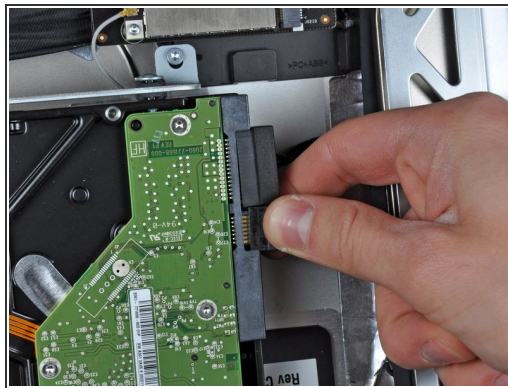
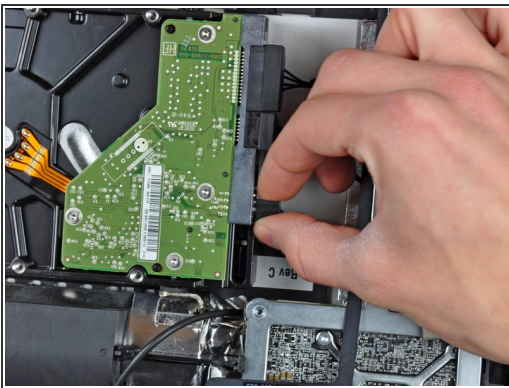
- Lift the display for enough clearance to disconnect the LCD thermal sensor cable connector from its socket on the logic board.
- ⓘ If your fan is spinning full speed after completion, check this connection or the hard drive's thermal sensor cable.

Step 9



- Carefully pull the display toward the top edge of your iMac and lift it out of the outer case.

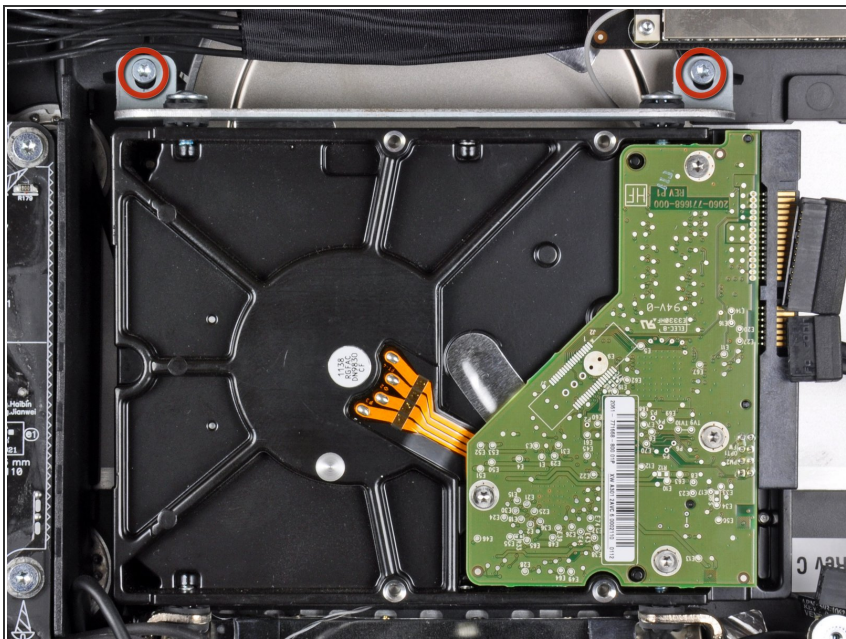
Step 10 — Hard Drive



 Before disconnecting the thermal sensor cable, take note of its orientation. It is extremely important to reinstall the connector in the current orientation so the fans will not run at full speed. If you have multiple pins on your replacement hard drive, put the connector closest to the SATA connections and closest to the PCB board.

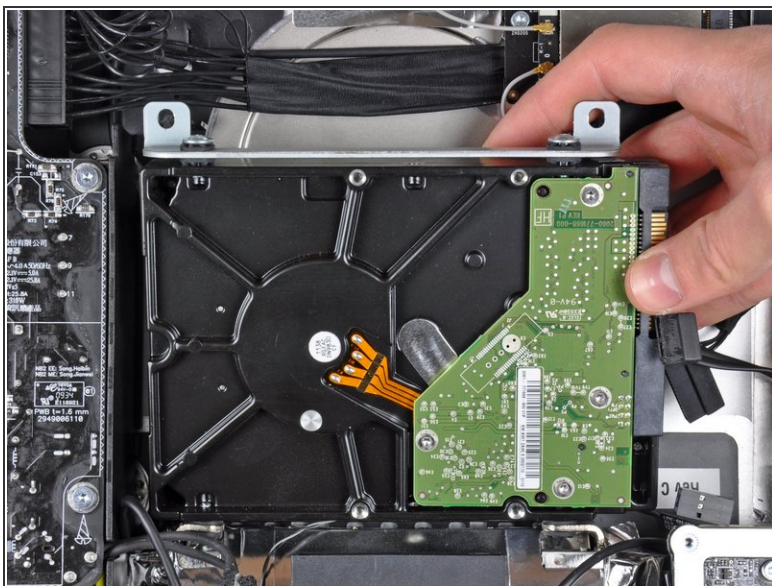
- Disconnect the thermal sensor, SATA power, and SATA data cables by pulling their connectors away from the sockets on the hard drive.

Step 11



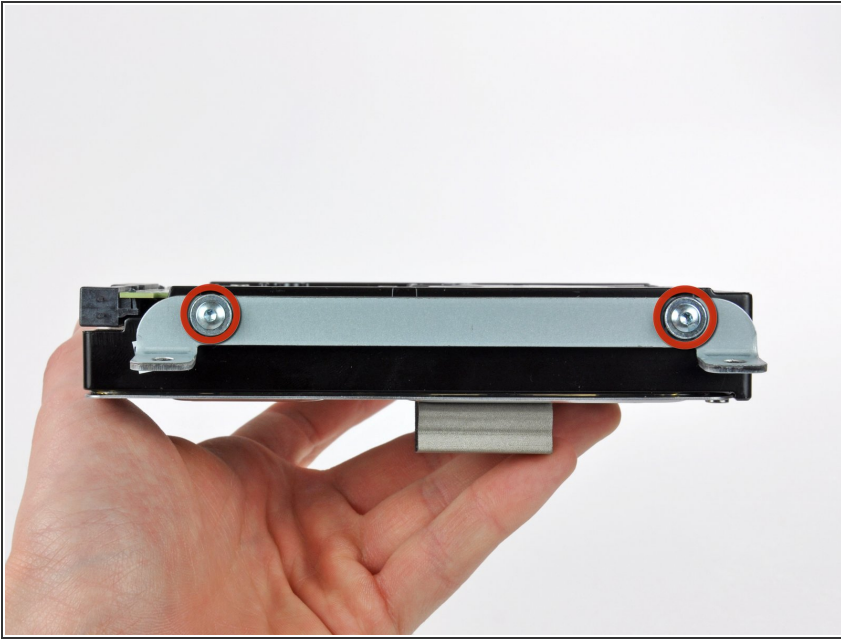
- Remove the two T10 Torx screws securing the upper hard drive bracket to the outer case.

Step 12



- Slightly rotate the hard drive away from the outer case.
- Lift the hard drive off its two lower positioning pins and remove it from the outer case.

Step 13



- Remove the two T8 Torx screws securing the upper bracket to the hard drive.
- Remove the upper bracket from the hard drive.

Step 14



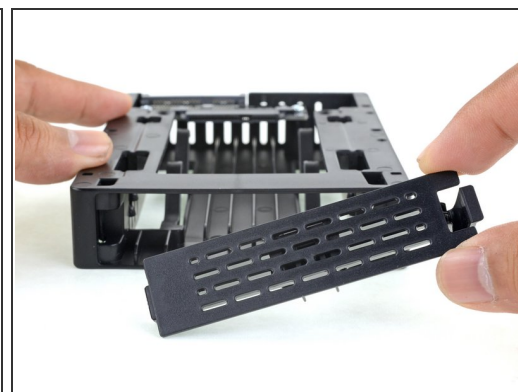
- Remove the two T8 Torx pins from the other side of the hard drive.

Step 15



- Carefully peel off the piece of EMI foam attached to the front of the hard drive.
- ☑ Don't forget to transfer this to your new hard drive.

Step 16 — SSD



i Only follow the next ten steps if you are replacing your hard drive with an SSD kit.

- Depress the enclosure's front plate latch with your finger. While holding the latch down, swing the plate out.
- Remove the front plate.

Step 17



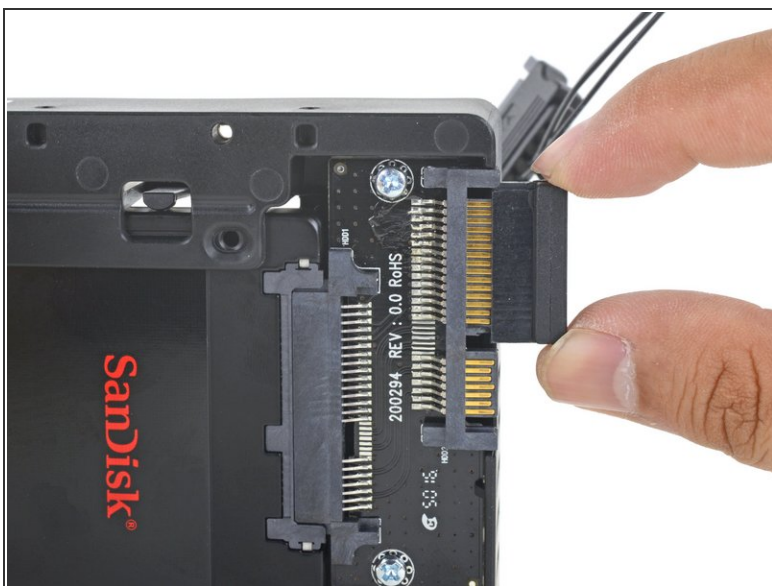
- Line up the small SATA connectors so that the narrow side of the connector on the SSD matches the narrow side on the enclosure connector.
- Slide the drive in through the front of the enclosure until the SATA connector is fully seated.
- ❗ The SSD connects with the enclosure in only one way. If the connectors are not lining up, rotate the SSD and try again.

Step 18



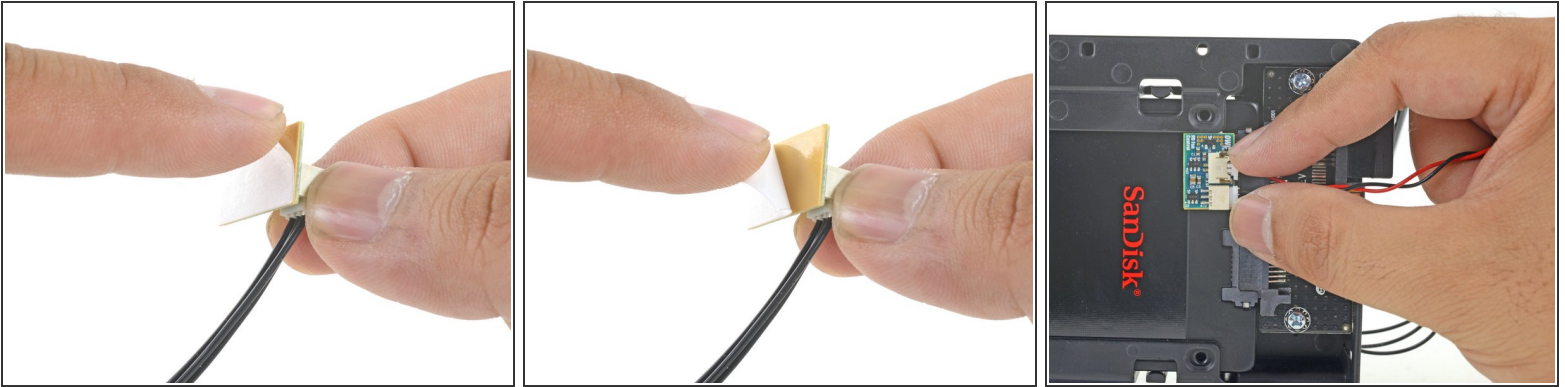
- You may optionally install two Philips #1 screws that came with the enclosure kit to secure the SSD in the enclosure.

Step 19



- Plug the included sensor-enabled SATA power cable into the wide side of the enclosure's SATA connector.
- ⓘ The cable is keyed to connect in only one way. If you can't connect the cable, rotate it 180°, and try again.

Step 20



- Peel the backing off of the adhesive back of the small temperature sensor board.
- Adhere the temperature sensor board to an exposed, metal area of the surface of the SSD, as close as possible to the SATA connector.
- Fold the excess temperature sensor wires so that they are out of the way while you install the enclosure.

Step 21



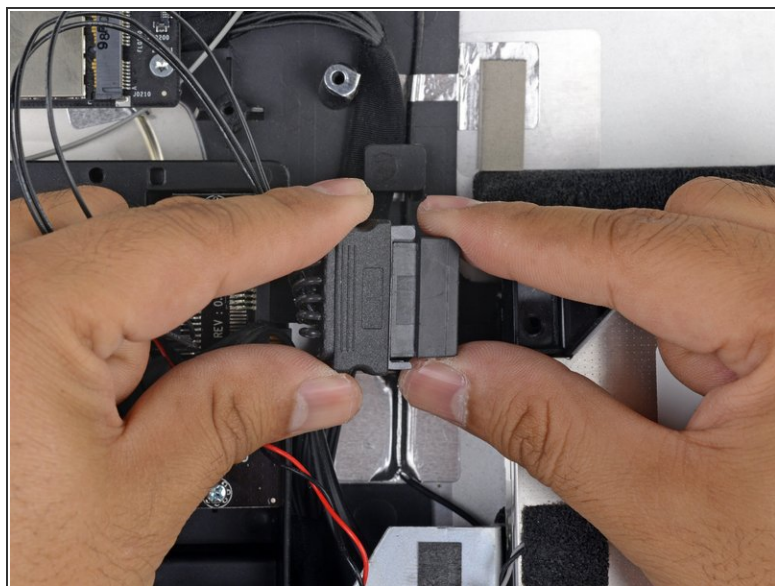
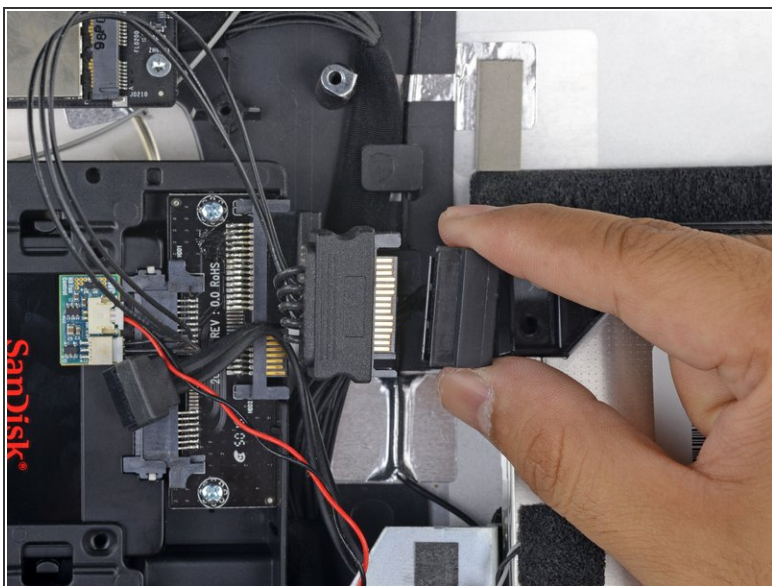
- Install the mounting pins from the old hard drive onto the sides of the enclosure.
- ⓘ The holes on the enclosure may not be threaded, so screwing the mounting pins into them may require extra effort. Take your time and screw them in slowly, making sure they go in straight.

Step 22



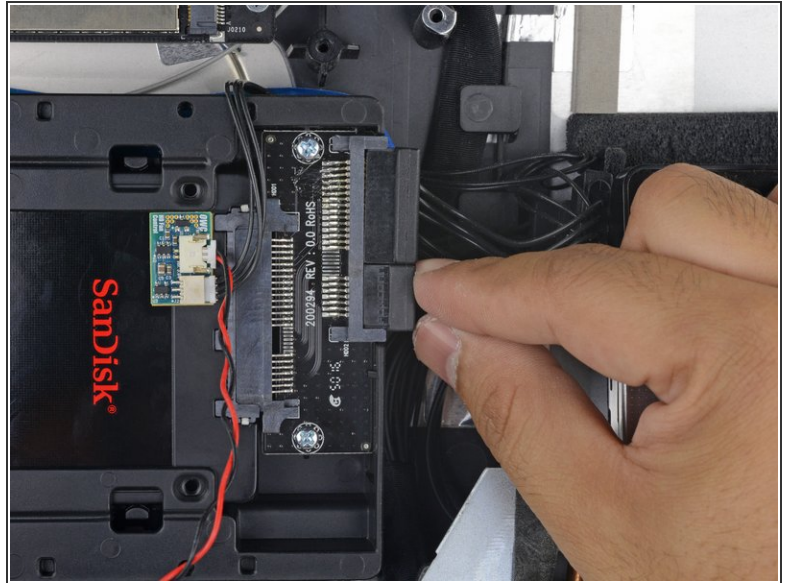
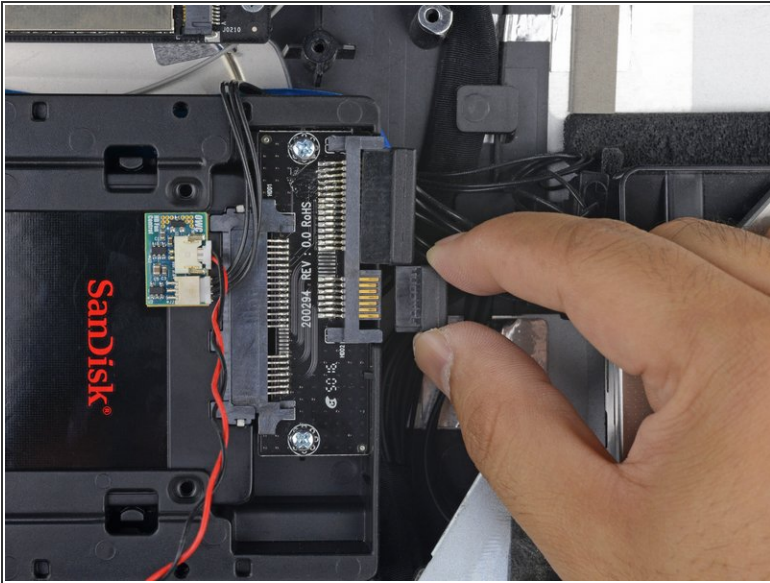
- Attach any mounting brackets removed from the old hard drive onto the enclosure.

Step 23



- Connect the iMac's SATA power cable to the new temperature-capable SATA power cable.
- Route the SATA cables where they will not interfere with any other components.

Step 24



- Connect the iMac's SATA data cable to the enclosure's SATA data connector.

Step 25



- Find a connector on the motherboard labeled **HD TMP** or **HDD TEMP**.
 - ❗ If you have trouble locating it, trace the two-wire temperature cable you disconnected from the old hard drive.
- If the previous temperature cable is still connected to the board here, disconnect and remove it. You will no longer need it.
- Connect the temperature sensor's two-wire red-black cable to the motherboard plug labeled **HD TMP** or **HDD TEMP**.
 - ❗ The connector is keyed to fit in one way only. If it seems like the connector is not fitting the socket, flip the connector and try again.
- Route the excess wire so it does not interfere with any other components.

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