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INTRODUCTION

Replace a broken optical drive fan to keep temperatures down.



TOOLS:

- [Heavy-Duty Suction Cups \(Pair\)](#) (1)
- [Paper Clip](#) (1)
- [TR10 Torx Security Screwdriver](#) (1)
- [Tweezers](#) (1)



PARTS:

- [iMac Intel 27" \(Late 2009 - Mid 2011\)](#)
[Optical Drive Fan](#) (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 indicated 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 indicated 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



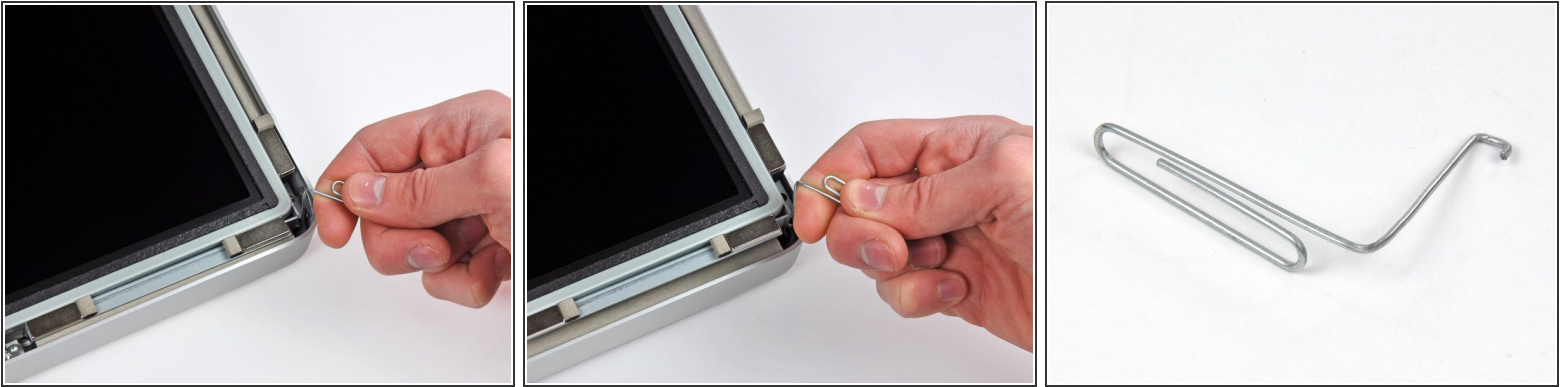
- Gently lift the glass panel perpendicular to the face of the LCD, enough to clear the steel mounting pins attached along the underside of the top edge of the glass panel.
- Pull the glass panel away from the lower edge of the iMac and carefully set it aside.
 - ⚠ Don't use the suction cups to carry 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. A pencil or pen can be placed under the top edge of the display, parallel to the top edge and extending past the edge of the computer, to keep the first side propped up while lifting the second.
- ⚠ 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



- Use a pair of tweezers to pull the vertical sync ribbon cable out of its socket on the LED driver board near the top left corner of your iMac.
- ⓘ On some iMacs this may not be a ribbon cable but four separate, very fine and very fragile wires. Be very careful, if the tweezers slip off the plug, you will very likely pull a wire out of the assembly.

Step 6



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

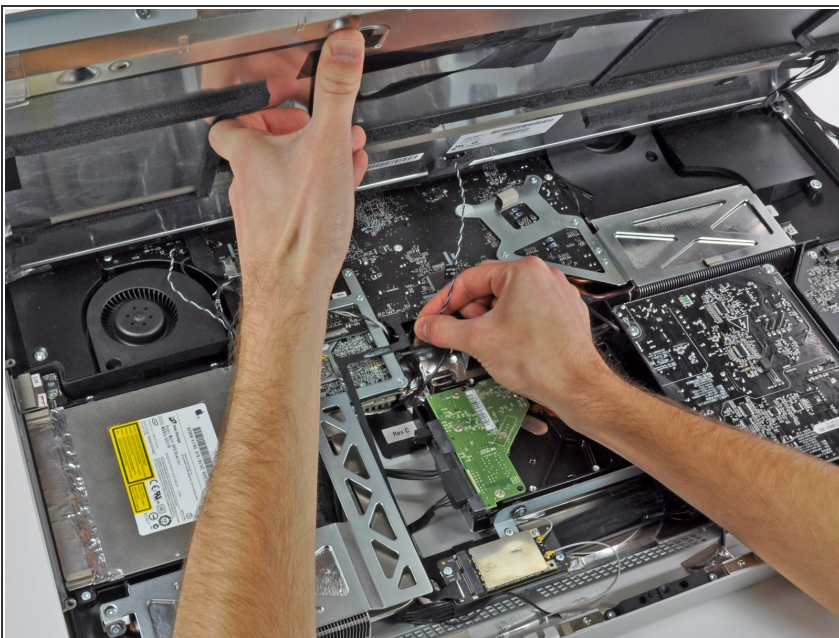
Step 7



- 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.

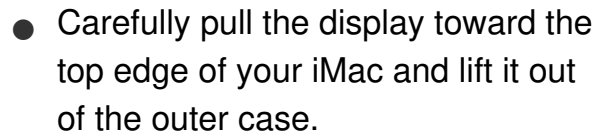
⚠ Be very careful when disconnecting this cable as both the cable connector and logic board socket are extremely fragile. When reconnecting the cable later, use as little force as possible.

Step 8

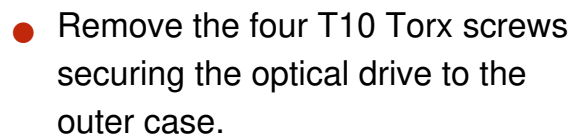


- Lift the display for enough clearance to disconnect the LCD thermal sensor cable connector from its socket on the logic board.
- ⓘ If your fan is spinning full speed after completion, check this connection or the hard drive's thermal sensor cable. The thermal sensor connector socket is very fragile,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

Step 9



Step 10 — Optical Drive

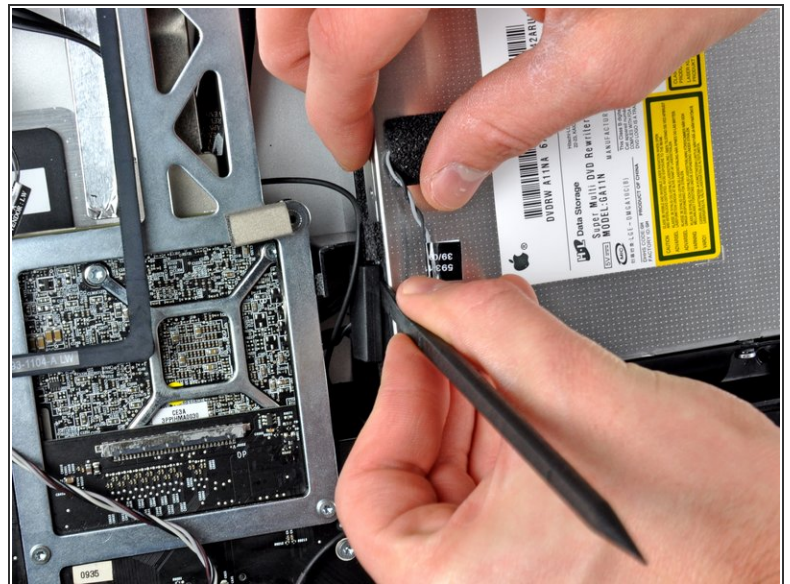
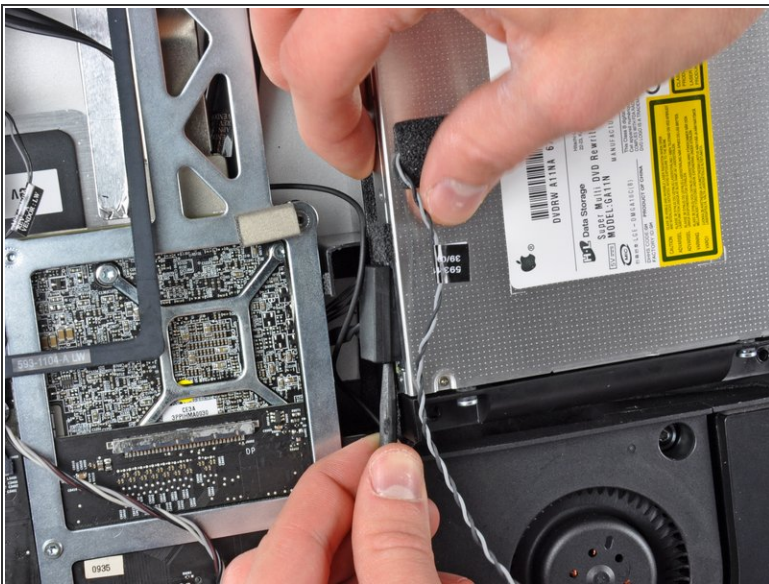


Step 11



- Pull the optical drive thermal sensor connector straight away from its socket on the logic board.

Step 12



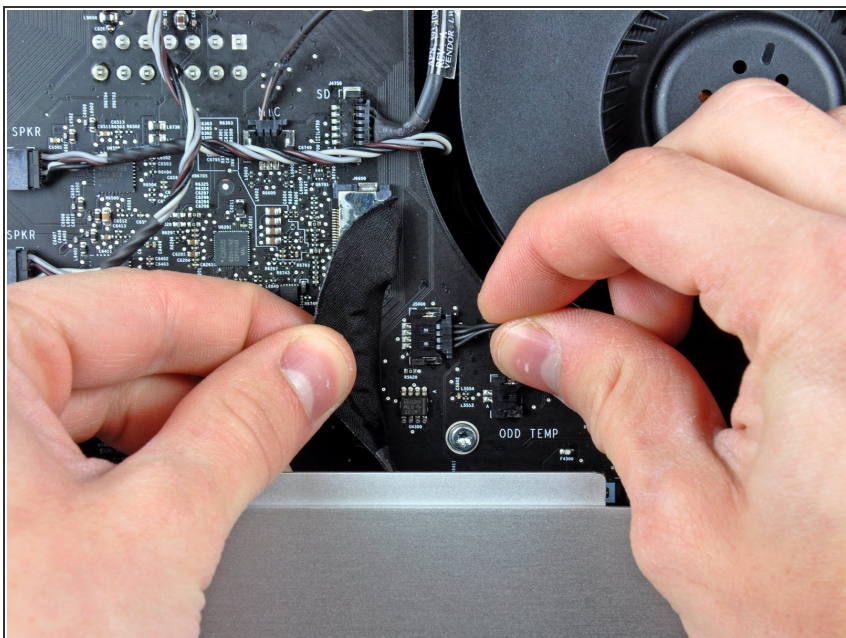
- Insert a spudger between the optical drive connector and the optical drive.
- Twist the spudger to slightly separate the optical drive connector from the optical drive, then use your fingers to pull the connector away from the drive.

Step 13



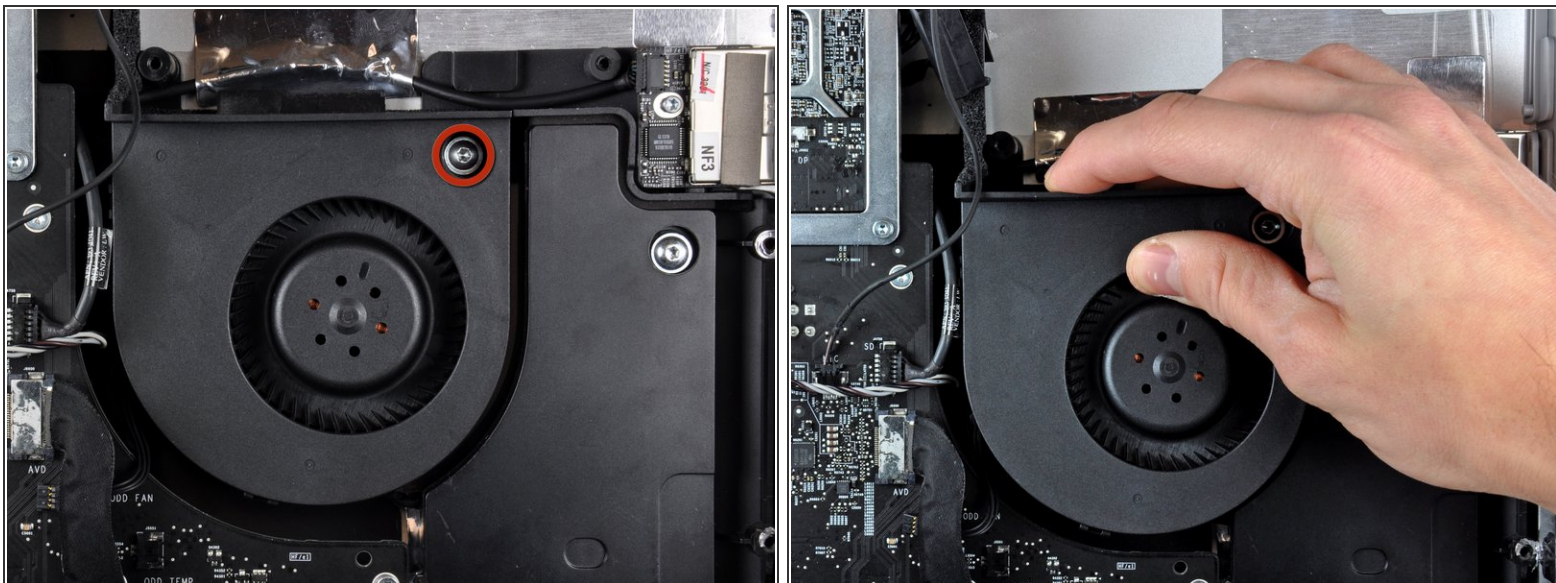
- Lift the left edge of the optical drive slightly and pull it away from the right side of the outer case.
- During reassembly, note that there are two holes in the optical drive face plate into which two stubby plastic posts must engage for proper positioning.

Step 14 — Optical Drive Fan



- Carefully move the rear I/O board ribbon cable to reveal the optical drive fan connector hidden underneath.
- Disconnect the optical drive fan by pulling its connector away from the socket on the logic board.

Step 15



- Remove the single T10 Torx screw securing the optical drive fan to the outer case.
- Pull the optical drive fan away from the outer case to lift it off the three plastic posts around its perimeter.
- Carefully maneuver the optical drive fan out of the iMac, minding any cables that may get caught.

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