

iMac Intel 20" EMC 2133 and 2210 Inverter Replacement

Use this guide to replace your inverter.

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INTRODUCTION

Use this guide to replace your inverter.

₹ 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)

PARTS:

iMac Intel 20" EMC 2210 & 2133 Backlight Inverter (1)

Step 1 — Access Door



- Loosen the single Phillips screw in the center of the access door.
- i This screw is captive in the access door.
- Remove the access door from your iMac.

Step 2 — Glass Panel





- (i) 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.
- (i) To attach the <u>suction cups</u> 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.
- ilf your suction cups refuse to stick, try cleaning both the glass panel and the suction cup with a mild solvent such as Windex.



- 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.



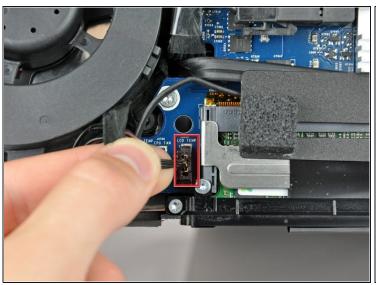
- Place your hands at the top corners of the bezel (to the side) and lift the bezel 2-3cm from the body by working from the top. After this you can also disengage the bottom of the bezel (the memory modules will prevent the bottom of the bezel to detach first). When reassembling, start with the bottom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

⚠ If you keep the microphone attached to the chassis, make sure you don't accidentally damage the microphone or logic board by bumping into the loose bezel.



- ★ 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.

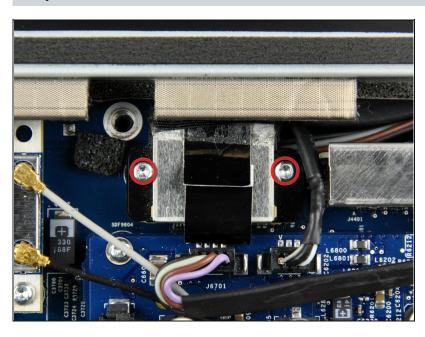
Step 7 — Display Panel



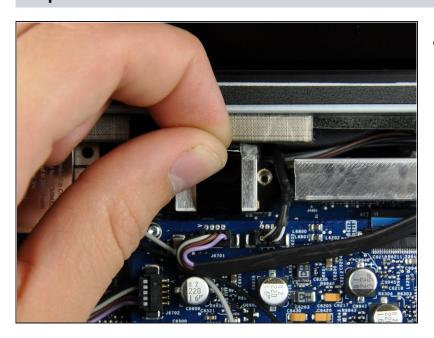


- Pull the LCD temperature sensor connector straight up out of its socket on the logic board.
- If necessary, de-route the LCD temperature sensor cable from behind the logic board.
- (i) When you remove the LCD, check the routing of the LCD temperature display cable. On reinstalling the display, be sure 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.



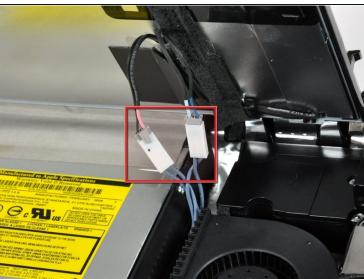
Use the attached black tab to pull the data display cable connector away from the logic board.





- Remove the eight 12 mm T8 Torx screws securing the display panel to the rear case.
 - i 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.



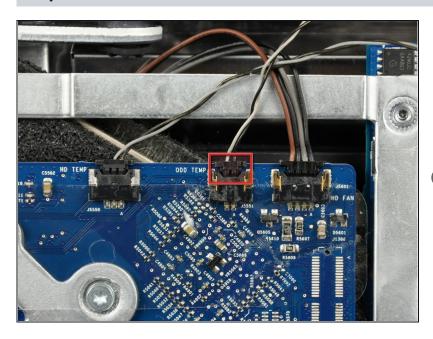


- With the display panel still lifted, disconnect the four inverter cables.
- During reinstallation, place the four inverter cable connectors in voids between components attached to the rear panel so the display panel will sit flush.
- i During reassembly, the order of the inverter cables is interchangeable 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 — Optical Drive



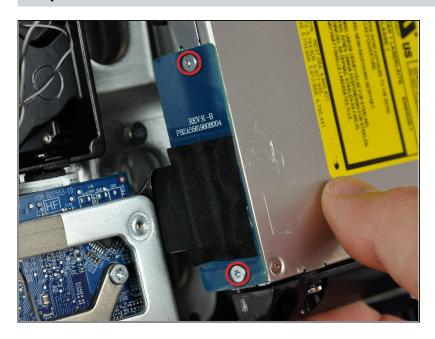
 If necessary, remove the pieces of tape securing the hard drive/optical drive thermal sensor cables to your iMac.



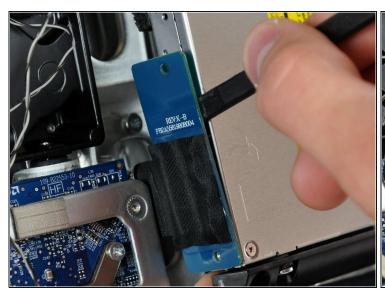
- Disconnect the optical drive thermal sensor connector from the logic board by pulling its connector toward the top of your iMac.
- is helpful to use your thumbnails to push the ears on either side of the connector toward the top of your iMac.



 Remove the two fine-thread 7 mm T10 Torx screws securing the optical drive to the rear case.



- Lift the free end of the optical drive slightly out of the rear case.
- Remove the two 3.5 mm T6 Torx screws securing the optical drive connector to the optical drive.





- Insert the flat end of a spudger between the optical drive connector and the body of the optical drive.
- Twist the spudger to separate the connector from the optical drive.
- it may be necessary to work from alternating sides of the connector until it is disconnected.



- Lift the optical drive out of the rear case and pull it away from the side of the rear case to release the strip of EMI tape attached to its surface.
- The optical drive thermal sensor is still attached to the underside of the optical drive.

Step 18 — Inverter

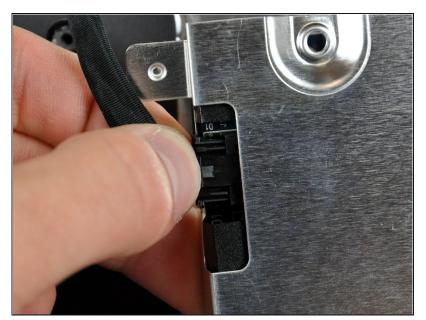


 Remove the two 13 mm T10 Torx screws securing the inverter to the rear case.

Step 19



 Pull the inverter away from the chassis and lift it slightly out of the rear case.



 Disconnect the inverter cable by simultaneously squeezing the locking mechanism and pulling the connector away from its socket.

Step 21



 Lift the metal case off the inverter.

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