



eMac Fan Assembly Replacement

This guide shows how to remove the fan assembly for the eMac.

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INTRODUCTION

The fan assembly contains the AC jack, and must be removed to remove the motherboard.

TOOLS:

- [Phillips #2 Screwdriver](#) (1)
 - [2.5 mm Hex Key](#) (1)
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Step 1 — Door Removal



- It should be noted that these guides are written based on a late-model eMac (2005, 1.42GHz, DDR). They will differ slightly from the older model eMacs that use PC-133 RAM.
- Lay the eMac screen-down on a flat surface. I've found it convenient to use a carpeted floor because the computer is so heavy.
- Remove the single phillips #2 screw on the RAM door, and remove the door
 - The screw is captive in the door, so don't worry about losing it.

Step 2 — Bottom Screw Removal



⚠ Before starting this process it's important to note that the eMac can have some seriously dangerous voltages inside of it, thanks to the CRT display. Before working on an eMac, you should unplug it, press the power button to clear any stored charge on the motherboard, and then let it sit for 24-hours (or more) to allow the CRT to discharge.

- You can read more about CRT safety procedures [here](#). If you aren't experienced with working on devices featuring a CRT, it's recommended that you don't proceed any further.
- On the bottom side of the eMac, remove the following screws:
 - A single 2.5mm hex screw
 - Two #2 phillips screws

Step 3 — Top and Side Screws



- Remove two 2.5mm hex screws from each of the other sides of the computer.

Step 4 — Power Button Cable

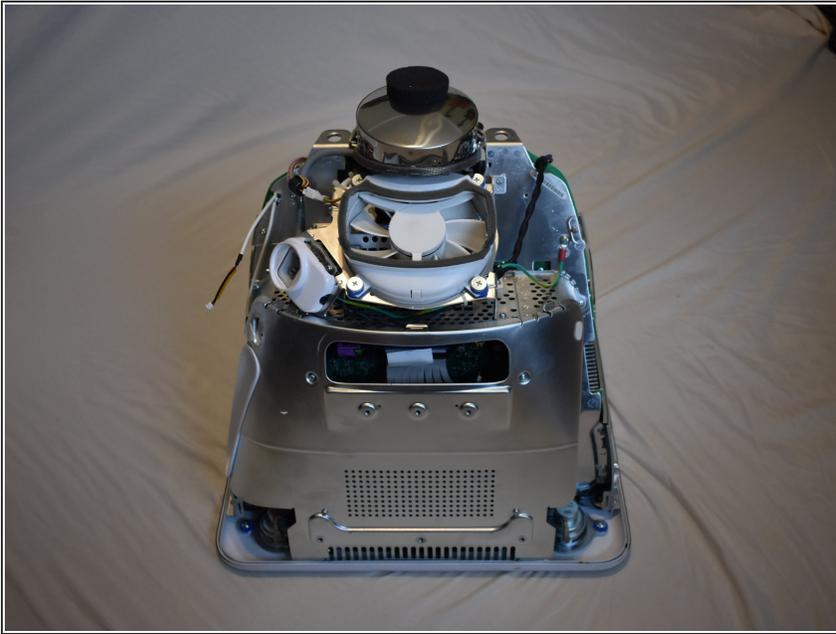


- Now, the shell can almost be separated from the computer.

⚠ There is a cable that connects to the power button. This must be disconnected before removing the housing completely.

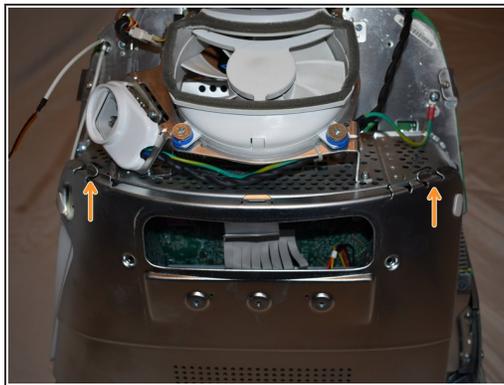
- Lift the housing enough to allow you to fit your hand through the access door, and disconnect the cable at the power button.

Step 5 — Shell Removal



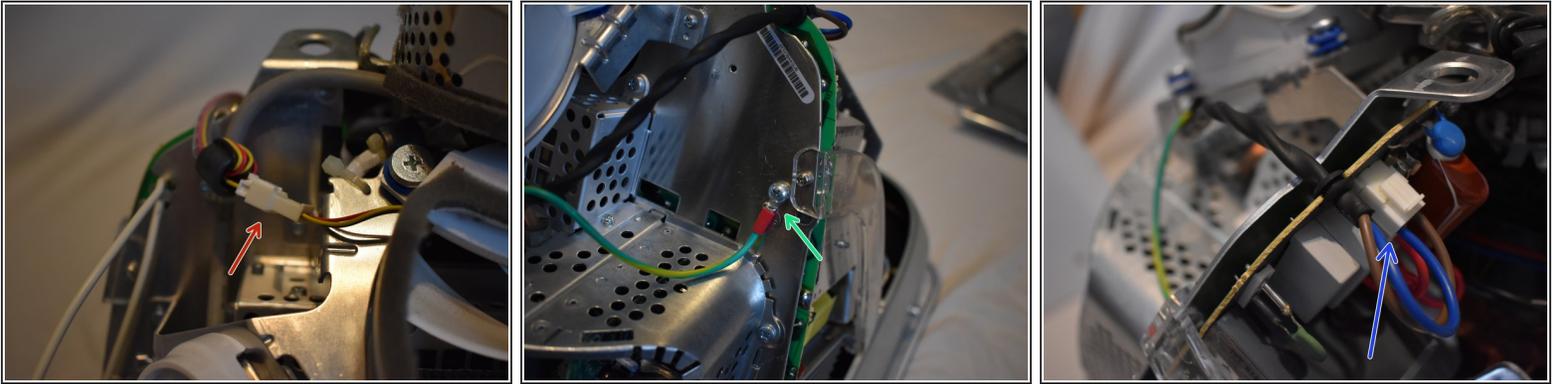
- Now the entire shell can be removed from the computer.

Step 6 — Panel Removal



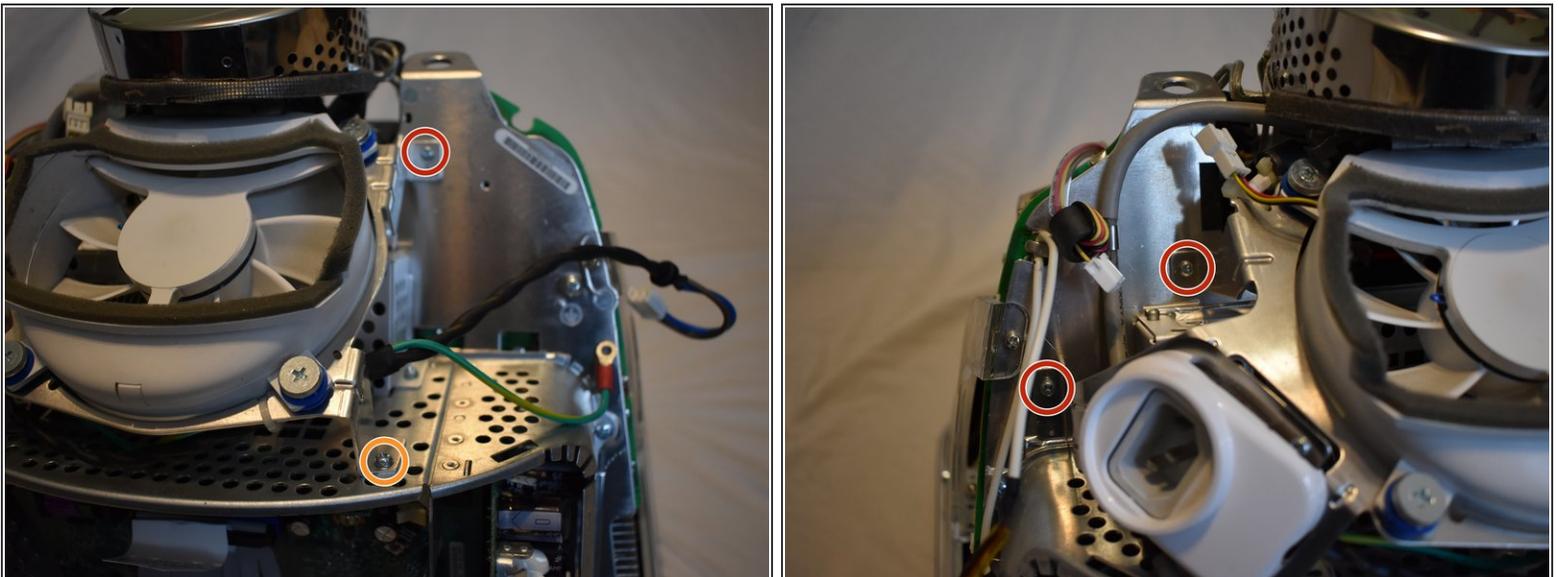
- The motherboard access panel is held on by 4 phillips #2 screws.
- Remove the screws, then use your fingers to pull on the top tabs to separate the panel from the computer frame.

Step 7 — Cables



- To remove the fan assembly, several cables must be disconnected first:
 - 3-pin fan cable
 - Ground wire, requires phillips #2 screwdriver
 - 2-pin AC cable to power supply

Step 8 — Screws



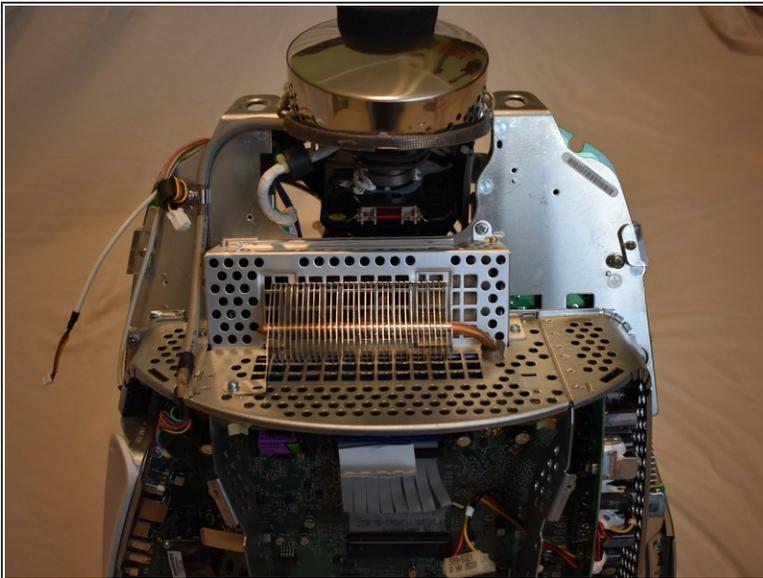
- Now remove the following screws securing the fan assembly:
 - 3x coarse thread phillips #2
 - 1x machine thread phillips #2

Step 9



- There may be a zip tie holding another cable to the fan assembly, cut it to remove the fan assembly.

Step 10 — Assembly Removal



- You should now be able to remove the fan assembly.

⚠ Doing this will expose more of the CRT neck, be careful not to touch this area because it can contain high voltages (and is fragile)

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