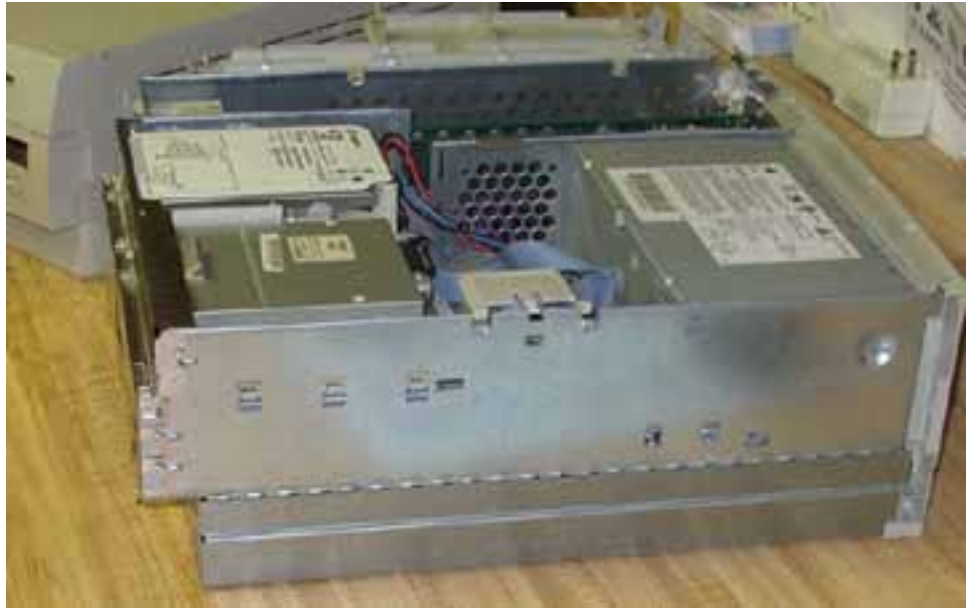


7500 Fan Installation

To install a cooling fan in a PowerMac 7500 to aid in cooling that second internal hard drive, first open the case.

Behind the hard drive bays you should find a vertical metal frame that runs parallel and next to the CPU's daughter card (it is also parallel to the PCI slots). This frame has a series of cooling holes cut into it just behind the drive bays. At the top of the metal frame there are two smaller holes spaced outside the larger cooling holes.



Note the metal grill between the drives and the power supply.

These smaller holes are the right diameter for size 8-32 machine screws. They are also perfectly spaced for a 60 MM cooling fan.

The 60 MM fan I use was purchased from CyberGuys:
<http://www.cyberguys.com> part number 113-0401 for \$5.99 US.

You will also need a power Y cable adapter (four pins in line like the HD connection) to connect the fan to the power line. I used CyberGuys part number 113-0270 (\$0.89 US) you may already have a similar one.

Finally you will need two 8-32 machine screws at least 1 3/4 inches long. Along with the screws you will need four 8-32 flat washers, four 8-32 lock or star washers and six 8-32 nuts. All available from your local hardware store for about \$2.00.



Closer view reveals two smaller mounting holes near the top of the grill. Perfectly spaced for a 60MM fan.

I do not know the metric equivalents of these if you are outside the USA but they should not be too difficult to figure out.

Installation is easy: insert the screws into the small holes at the top of the frame. Place a flat washer and lock washer on the opposite end of the frame and use a nut to anchor the screws. Add a second nut to each screw turning the nuts toward the metal frame until

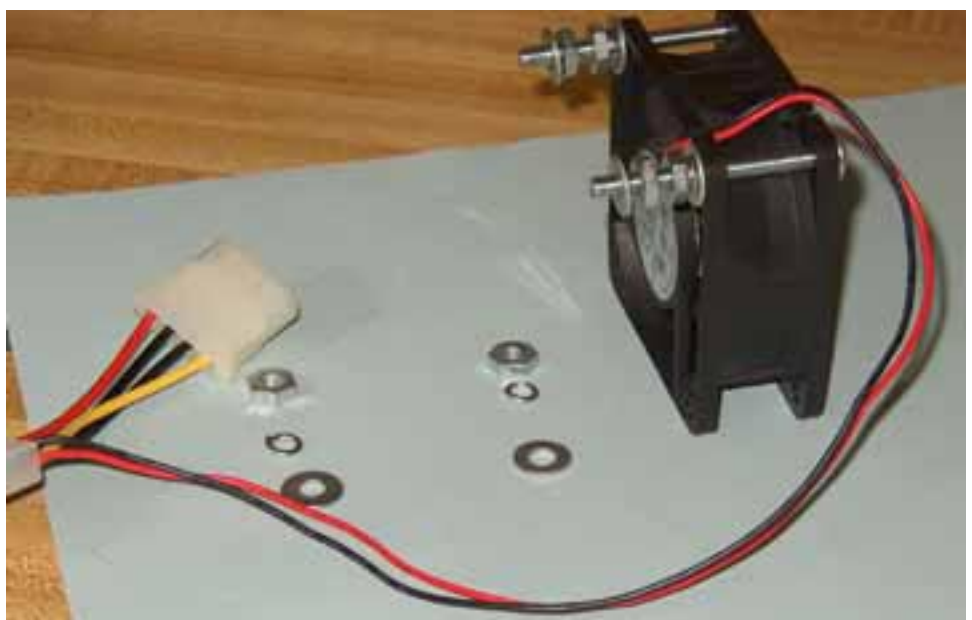


Tools and componets needed

there is enough room to fit the fan on the protruding screws - which are now acting as studs. Attach the fan to the screws and add two more flat and lock washers and nuts to secure the fan.

Connect one end of the power Y cable to the power line, one to the fan and the third to the hard drive. That's it!!! —No cutting, drilling or soldering.

I have tried facing the fan in both directions with no noticeable advantage in cooling. I monitor the temperature of the hard drive in the lower bay with a cheap (Radio Shack variety) indoor/outdoor thermometer. The sensor is taped to the metal case of the drive. When the room temperature is in the 80° F range my 4 GB, 7200 RPM Seagare Medalist drive runs about 100° F higher.



Fan ready to be attached to metal grilling



The fan installed

The 7500 has a XLR8 466/233MHz with 1 MB backside cache Processor upgrade.

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