

# Mac Pro 800MHz - RADEON 3870 OEM Installation

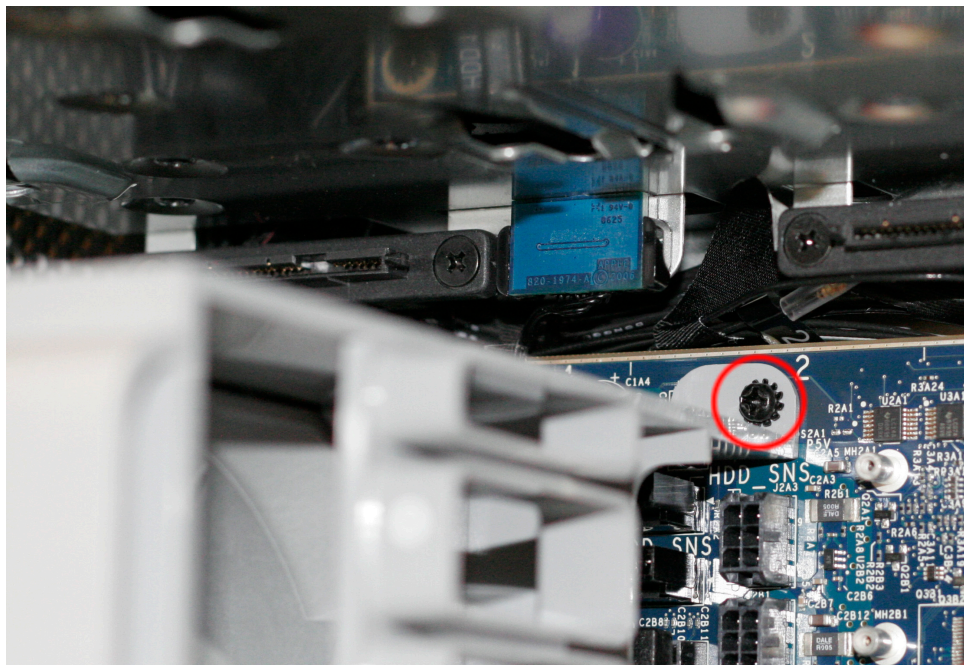
The Apple/ATI RADEON 3870 is an extremely large PCIe card and will require removal of the fan assembly to install into your Mac Pro. There is no way to fit the card in without the fan assembly out of the system, and you also need to plug in the auxiliary power cord onto the logic board and that is located underneath the fan assembly.



Shut your Mac Pro down, and begin by removing the side door on your Mac Pro.



Make sure that the locking latch on the back right side of the Mac Pro. Then, remove all 4 of the drive bays and set them aside.



Immediately to the left of the PCI slots, at the top of the logic board, you will see this Phillips screw. Using a Phillips P0 screwdriver, remove it.

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Remove the cover over the processors by pulling on it. There are magnets securing the cover in place.



Remove the Phillips screw from the base of the fan assembly, located at the bottom left of the processor heatsinks.

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Using your right hand, wiggle, tug, and pull the entire fan assembly out of the computer. It attaches to the logic board via a connector that you don't need to worry about disconnecting, it's a pressure fit.



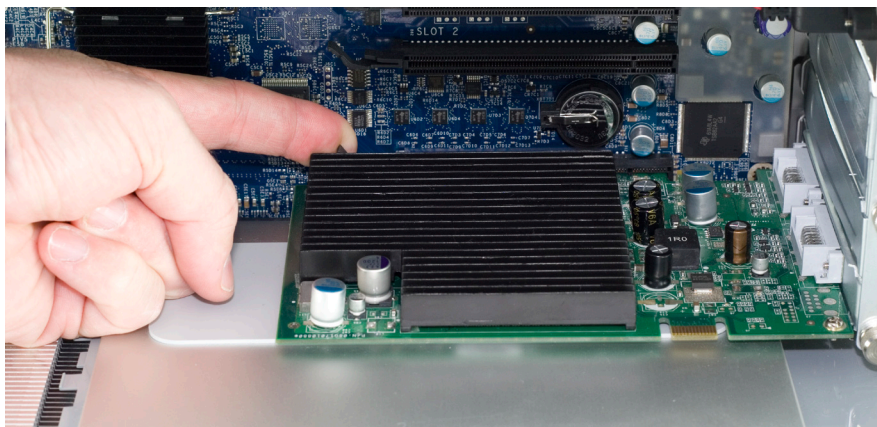


Look inside the PCI Express bay at the top right of the Mac Pro. You'll need to remove items from this location next.

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Using a Phillips P0 screwdriver, loosen the PCI Express cover retaining plate and remove it. There is a tab at the top that the metal plate latches into, you'll need to unscrew the 2 screws and slide the plate down out of the tab.



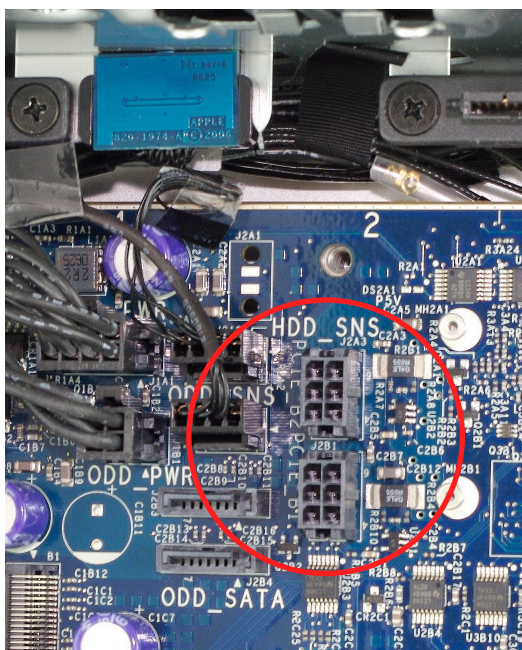
Remove your existing PCI Express video card. At the rear of the PCI Express slot, there is a small plastic tab that you need to lift up to unlock the PCI Express card. While doing this, pull gently on the card itself toward you and it will come free. Set the video card aside. You may need to unplug a power cord from your video card as well, depending on the model installed.

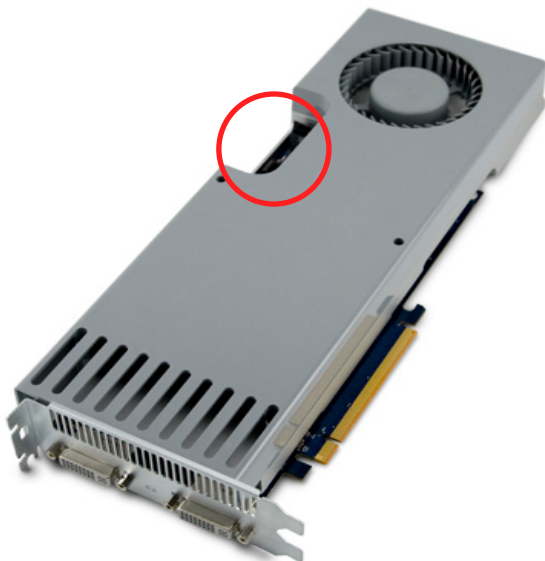
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To the left of the video card you just removed, you will see these 2 plugs on the logic board, you need to connect the auxiliary power cable from the video card to either of these plugs.

Generally since this is going to be located in slot #1, you should use the lower plug location for the video card connection to the new Radeon 3870 card.

If you are going to use a 2nd video card in your system, you would use the secondary power connector to attach to your other video card IF it uses auxiliary power - many cards do not.





Attach the power plug from the logic board to the RADEON 3870 card, the location is circled above.

- Insert the new RADEON card into slot #1 in the Mac Pro. Replace the PCI cover retaining plate to secure the new video card in the slot.
- Replace the fan assembly into the track at the bottom of the Mac Pro case, sliding it into the chassis, making sure that the power cord you installed does not bind or get pinched. You need to guide the new RADEON card into the track marked #1 on the fan assembly shroud.
- Unscrew the silver screw on the end of the RADEON card, right at the fan shroud, to extend a spring loaded latch into the fan shroud, fully securing the RADEON card into the Mac Pro.
- Replace the screws in the fan shroud, at the top, and the bottom.
- Replace the processor cover, sliding it underneath the new RADEON card. The magnets will probably need to be pressed back into place to facilitate the proper fit of this part.
- Replace your hard drives back into the bays.

### **Troubleshooting:**

If your Mac Pro does not display video properly, try installing your original video card into slot #2 and plug the display into that video card. Sometimes video resolutions do not always synchronize properly, unfortunately there is no set pattern as to why this happens. In some cases, it's been necessary to install the new RADEON card into slot #2, with the original card in slot #1 and have the monitor connected to the original card, boot the machine, and then attempt to use the RADEON card.

Once you are able to get the RADEON card to display video properly, you can remove the original card and move the RADEON to slot #1.

*Be advised - this is not the normal procedure and is included here for troubleshooting only.*