



MAC PRO 2006-2008

5.25" Optical Drive Install Guide



INTRODUCTION

The images and descriptions of the optical drive may vary slightly between this document and the unit shipped. Note that the installation process is somewhat complex — *we recommend you read through the entire guide before proceeding with the installation.* Note that these instructions are provided by MacSales.com strictly as a courtesy to our customers. While every effort is made to ensure their accuracy, some details may change over time based on the optical drive mechanism sourced or other factors.

Required Tools

- Phillips P1 driver
- Phillips P0 driver
- Needle-nose pliers (required for some 2006 Mac Pro models)

Kit Contents

- Optical drive
- SATA cable
- Power cable
- Printed guide(s)



Your computer is a static-sensitive device. It is susceptible to invisible damage if not protected during installation. We recommend proper grounding through the use of a grounding strap. Be sure to work in a clean and static-free area, and avoid wearing clothing that retains static charges. For more information, please visit: www.macsales.com/static

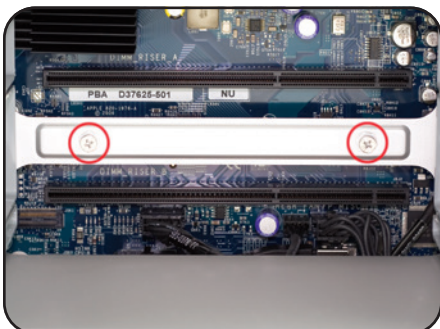
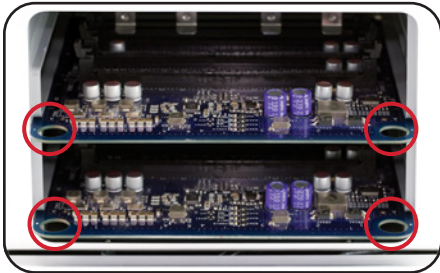
Prep Work 2006-2007 Models



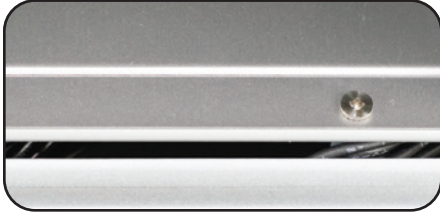
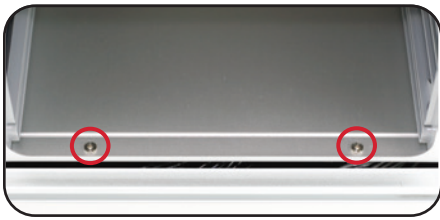
1. Disconnect power and all other device cables from the Mac Pro. Lift the latch on the back of the case then remove the side cover and set it aside.



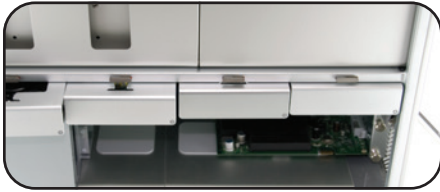
2. (2006 model only) Locate the memory bay (shown left). Grip the upper memory board by the circular cut-outs (shown below-left), then pull the board straight out of its slot and set it aside. Repeat the process with the lower memory board.



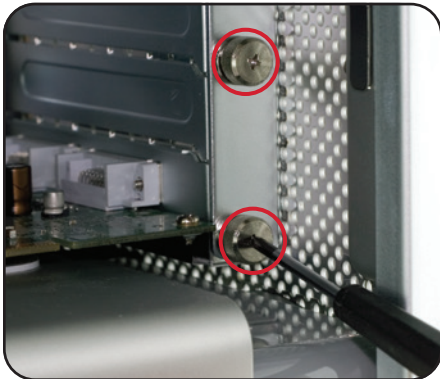
3. (2006 model only) Between the two logic board connectors for the memory boards that were removed in Step 2, there is a metal bracket with two Phillips screws on it, highlighted at left. Remove the screws. NOTE: these screws extend through the logic board.



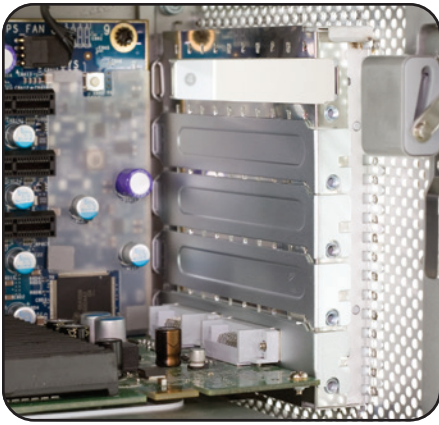
4. (2006 model only) At the bottom of the memory bay, there are two additional Phillips screws. Use a Phillips P0 driver to remove them. NOTE: These screws are affixed to standoffs underneath the memory bay. NOTE: some 2006 Mac Pros require an additional tool for this step. The standoffs have a type of adhesive applied. Depending on how the adhesive was applied, turning the Phillips head screw may turn the standoff itself. If this happens, thread a pair needle-nose pliers through the gap in the case, to immobilize the standoff while turning the screw.



5. Make sure the lever at the back of the Mac Pro is in the up position, then remove the four SATA drive sleds as shown. Set them aside.



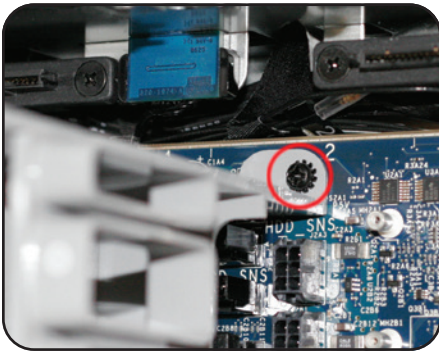
6. Using your fingers or a Phillips driver, loosen the thumbscrews that hold the PCIe cover retaining plate in place, then remove it. NOTE: there is a tab at the top of the retaining plate that helps to hold it in place — once the thumbscrews are loosened, slide the plate downward before pulling it out of the case.



7. Once the retaining plate is removed, remove the PCIe cover from the top slot, shown at left. Set it aside; you will need it again at Step 13.



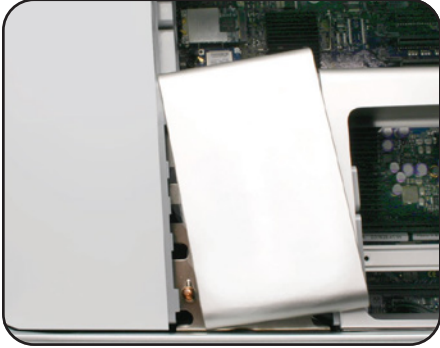
8. Next, find the GPU and note its connection to the PCIe slot. There is a small plastic tab at the left end of the slot — lift it upward as shown. While doing this, pull the card toward you to remove it from the PCIe slot. Set the GPU aside.



9. To the left of the PCIe slots, at the top of the logic board, carefully remove the Phillips screw (shown at left) using a Phillips P0 driver. We recommend a magnetic-tipped driver.

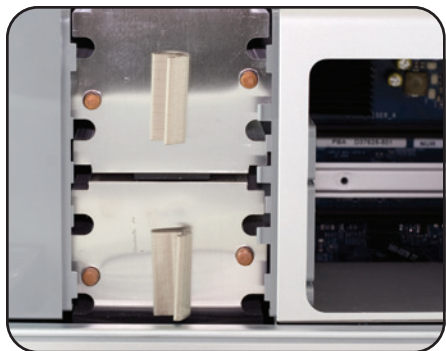
10. This step details the removal of the CPU heat sink cover. The steps differ by model.

2006 Mac Pro - slide the memory bay cover to the right (shown at left). Next, lift the CPU heat sink cover slightly to dislodge it, then rotate it (below-left) and then remove it.



2007 Mac Pro - lift the back of the CPU heat sink cover upward, then outward towards you (below-left). It is held in place by magnets and should come loose easily.





11. Set the cover aside. The image at left shows what the Mac Pro case looks like without the CPU heat sink cover. NOTE: the 2006 Mac Pro is shown here; the 2007 model will look slightly different but the process is the same.



12. (2007 Mac Pro only) There is a hidden Phillips screw located at the base of the fan assembly (left). Remove it. Take care not to drop the screw once it is loose. We recommend a magnetic-tipped screwdriver for this step as well.



13. Take the PCIe cover you removed in Step 7. Starting at the top of the fan assembly, work the short end of the bracket into the gap at the front of the Mac Pro, shown at left.

Once the bracket is inserted, you can use it as a hook to help pull the fan assembly out of the case. Place the bracket at the bottom left before moving to the next step.



14. Using your hand, gently rock entire fan assembly until it comes loose, then carefully pull it out of the computer. Once completed please skip ahead to page 9.

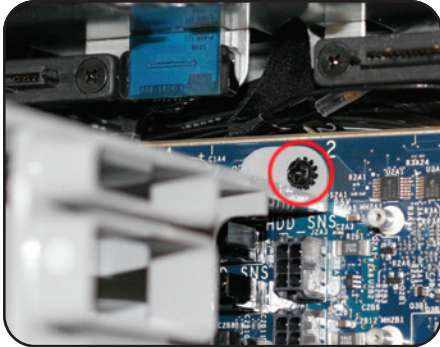
Prep Work 2008 Model



1. Disconnect power and all other device cables from the Mac Pro. Lift the latch on the back of the Mac Pro then remove the side cover and set it aside.



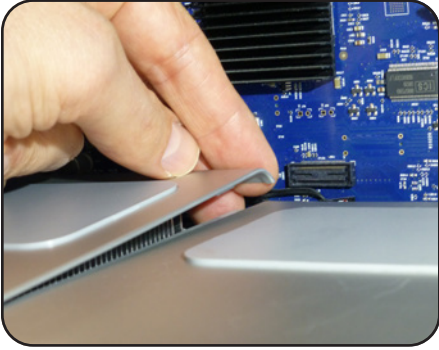
2. Make sure the lever at the back of the Mac Pro is in the up position, then remove the four the SATA drive sleds (left). Set them aside.



3. To the left of the PCIe slots, at the top of the logic board, remove the Phillips screw (highlighted at left) using a Phillips P0 driver. We recommend a magnetic-tipped driver.



4. Lift the back of the CPU heat sink cover upward, then outward towards you (below-left). It is held in place by magnets and should come loose easily.

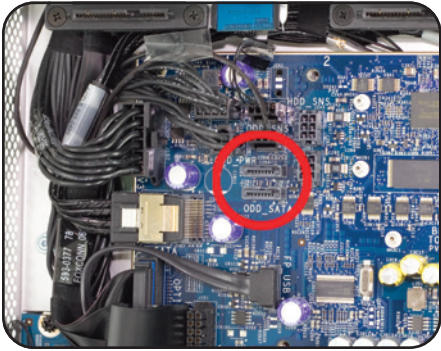


5. Loosen and remove the silver colored Phillips screw from the bottom-right edge of the fan assembly. Take care not to drop the screw once it is loose. We recommend a magnetic-tipped screwdriver for this step as well.

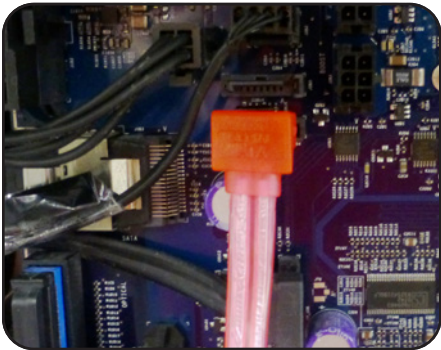


6. Using your hand, gently rock the entire fan assembly until it comes loose, then remove it.

Cable & Drive Setup (all models)



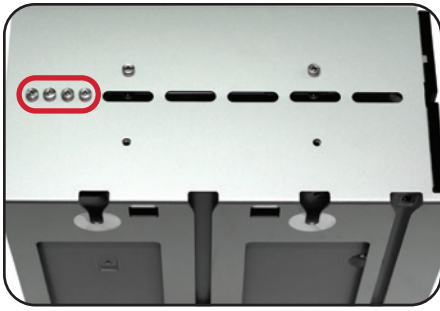
1. Look for the two available SATA ports, highlighted at left.



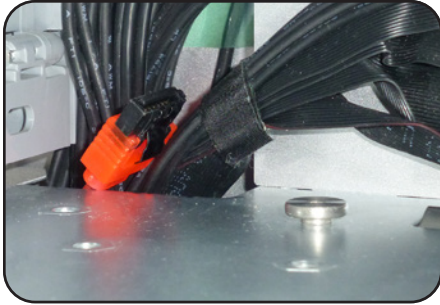
2. Insert the right-angle / 90 degree connector on the SATA cable into the lower SATA port shown in Step 1.



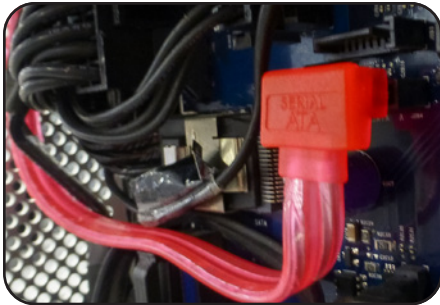
3. Grasp the optical drive carrier and pull it straight out. Disconnect the power and data cables from the back of the existing optical drive and set the carrier in front of you.



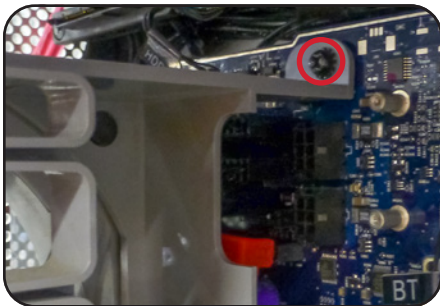
4. Insert your new SATA optical drive into the carrier, in the empty lower bay. There should be four screws provided by Apple, inserted on the back side of the carrier (highlighted at left). Remove them and use them to fasten the new optical drive to the carrier (two on each side).



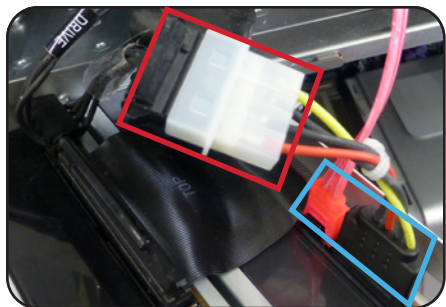
5. Start routing the SATA cable that you have attached to the logic board in Step 2 up through the corner of the optical bay, following the existing wires that are shown below.



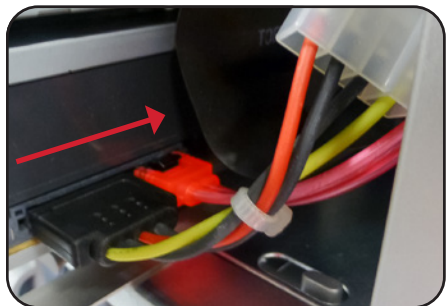
6. You may have to experiment to get the proper routing, based on the configuration of your Mac Pro. Make sure the cable is positioned so that it will not get crimped or pinned against other connectors on the logic board.



7. Reinsert the fan assembly into the computer, sliding it on its base track and then re-affixing the Phillips screw that was removed earlier (shown at left). Make sure that the cable is not pinned behind the fan assembly when you tighten the screw.



8. Insert the SATA cable and the power converter cable into the new optical drive (area highlighted in blue), then connect the other end of the power converter cable into the spare power connector provided (shown in red). NOTE: there are two power connectors on a single cable, so both drives will be connected to the same power cable.



9. Carefully guide the drive carrier back into the optical drive bay. There are two screws that slot into cutouts on the carrier. Carefully route the cables so that they are not pinched or disconnected when fitting the carrier into the optical bay. If you feel any resistance, remove the carrier and look for wires or cables that may be in the way. Do not push through the resistance or you could damage the wires or cables.

Mac Pro 2006-2007: return to page 6 and work backwards to reassemble the Mac Pro.

Mac Pro 2008: reinsert the Phillips screw you removed on Page 8, and work backward from that point to reassemble the Mac Pro.

Contacting Support



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Chat: M–F, 8am–8pm, Sat. 9am-5pm (Central Time)
www.owcdigital.com/support/contact



Email: Answered within 48 hours
www.owcdigital.com/support/contact

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