



## Multi-Mount for Mac Pro 2006-2008

3.5" to 5.25" Drive Bay Converter Bracket

2.5" to 3.5" Drive Bay Converter Bracket



Assembly Manual

## 1 INTRODUCTION

1.1 System Requirements	3
1.1.1 Computer Requirements	
1.1.2 Drive Requirements	
1.1.3 Tool Requirements	
1.2 Package Contents	

## 2 MAC PRO 667MHZ DISASSEMBLY

2.1 Mac Pro 667MHz Disassembly	4
--------------------------------	---

## 3 MAC PRO 800MHZ DISASSEMBLY

3.1 Mac Pro 800MHz Disassembly	13
--------------------------------	----

## 4 CABLE INSTALLATION

4.1 Cable Installation	16
------------------------	----

## 5 BRACKET ASSEMBLY

5.1 Installing 3.5" Hard Disk Drives	19
5.2 Installing a 2.5" SSD or HDD	21
5.3 Combining the 2.5" and 3.5" Brackets	22
5.4 Installing a 2.5" Drive with a 3.5" Drive	23

## 6 COMPUTER INSTALLATION

6.1 Installing the OWC Multi-Mount into a Mac Pro	24
---	----

## 7 TROUBLESHOOTING

7.1 Troubleshooting	26
7.2 Usage Tips	

## 8 SUPPORT RESOURCES

8.1 Frequently Asked Questions	27
8.2 About Data Protection	
8.3 Contacting Technical Support	



### BEFORE YOU BEGIN:

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](http://www.macsales.com/static)

# CHAPTER - 1 INTRODUCTION

## 1.1 System Requirements

### 1.1.1 Computer Requirements

Any 2006 - 2008 Mac Pro system

### 1.1.2 Drive Requirements

The OWC Multi-Mount is designed to work with any 3.5" or 2.5" SATA drive.

### 1.1.3 Tool Requirements

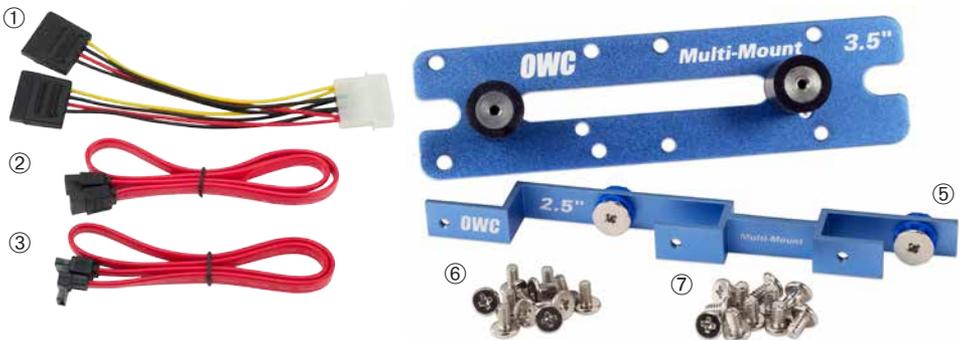
- Phillips #1 or #2 Screwdriver
- Needlenose Pliers or Hemostats

**NEED TOOLS?** OWC offers a 14-piece toolkit that provides the all of the tools required to perform the installations shown in this document.

<http://eshop.macsales.com/item/NewerTech/TOOLKIT14/>

## 1.2 Package Contents

- ① 4 Pin Power to SATA Power Y Cable or single SATA Power Cable\*
- ② SATA Straight - Straight Cable\*
- ③ SATA "L" - Straight Cable\*
- ④ OWC Multi-Mount 3.5" Drive Bracket (2 pieces)
- ⑤ OWC Multi-Mount 2.5" Drive Bracket (4 pieces, 2 required per drive)\*
- ⑥ Screws for 3.5" Bracket - Coarse Thread (16 pieces)\*
- ⑦ Screws for 2.5" Bracket - Fine Thread (12 pieces)\*
- ⑧ Assembly Manual (not pictured)



**IMPORTANT:** Depending on type of Multi-Mount kit you purchased, contents may differ. The brackets are sold as individual units and as complete sets. Please check your invoice for exact contents.

## CHAPTER 2 - MAC PRO 667MHZ DISASSEMBLY

### 2.1 Mac Pro 667MHz Disassembly

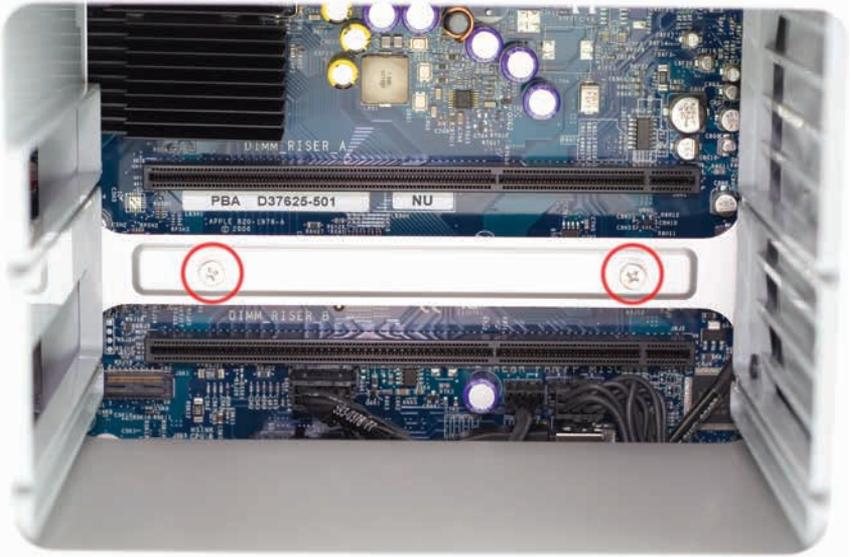


Begin by removing the side door on your Mac Pro.



On the lower right, find the memory bay.

## 2.1 Mac Pro 667MHz Disassembly (cont.)



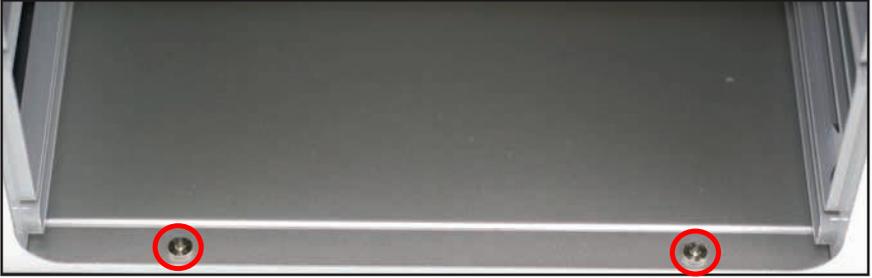
Remove the two riser cards, exposing the Phillips screws shown here.

---



Remove the two Phillips screws.

## 2.1 Mac Pro 667MHz Disassembly

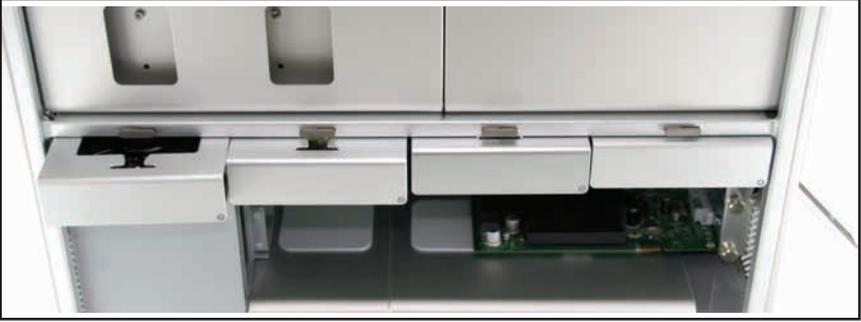


At the bottom of the memory bay there are two Phillips screws, shown above. Use a Phillips #0 screwdriver to remove the screws as shown below.



**IMPORTANT:** in many cases these specific screws were improperly installed. Instead of using loctite on the screw standoff, Apple used loctite on the screws themselves. This means when you try and remove the screws the standoffs themselves will turn instead of the screws. You may need to use a very thin pair of needlenose pliers, hemostats, or a thin, flat-blade screwdriver to hold the standoff tight while you loosen the Phillips screws.

## 2.1 Mac Pro 667MHz Disassembly



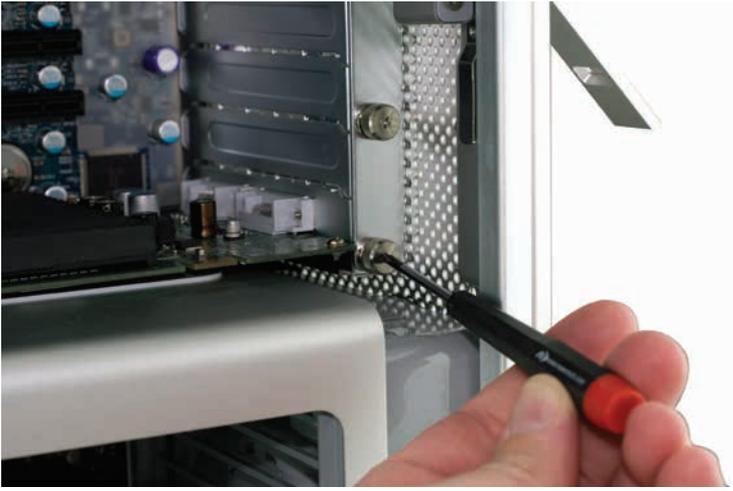
Make sure the latch on the back of the Mac Pro is open, then remove all four of the drive sleds and set them aside.

---



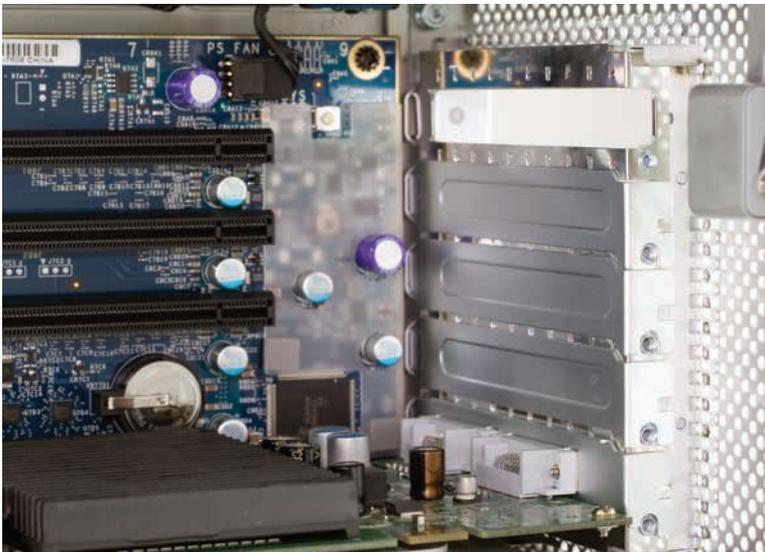
Look inside the PCI Express bay at the top right of the Mac Pro. You'll need to remove items from this location next.

## 2.1 Mac Pro 667MHz Disassembly



Using a Phillips #0 screwdriver, loosen the PCI Express cover retaining plate and remove it. There is a tab at the top that is connected to the plate; unscrew the two screws and slide the plate down, out of the tab.

---



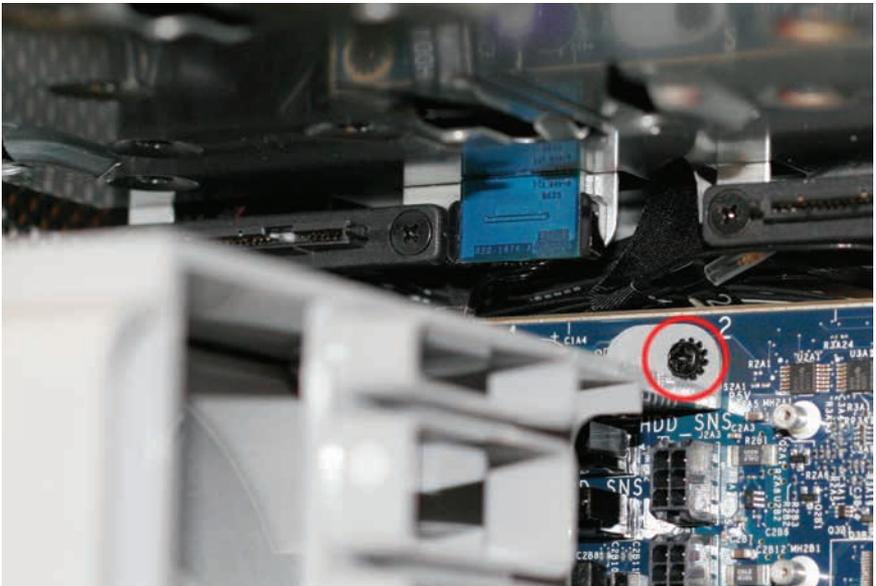
Once the metal retaining plate is removed, remove the top PCI Express plate cover from the top slot as shown. Set the plate cover aside; you will need it later.

## 2.1 Mac Pro 667MHz Disassembly



Remove your Graphics Processing Unit (GPU). It should look similar to the green PCIe card shown above. At the rear of the PCI Express slot there is a small plastic tab -- lift it to unlock the PCI Express card. While doing this, pull gently on the card itself toward you and it will come free.

---



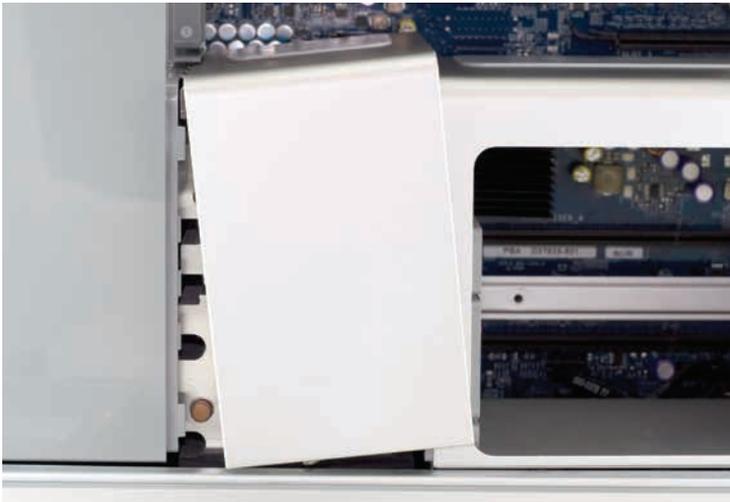
Immediately to the left of the PCI slots, at the top of the logic board, you will see a black screw (circled in red above); use a Phillips #0 screwdriver to remove it.

## 2.1 Mac Pro 667MHz Disassembly



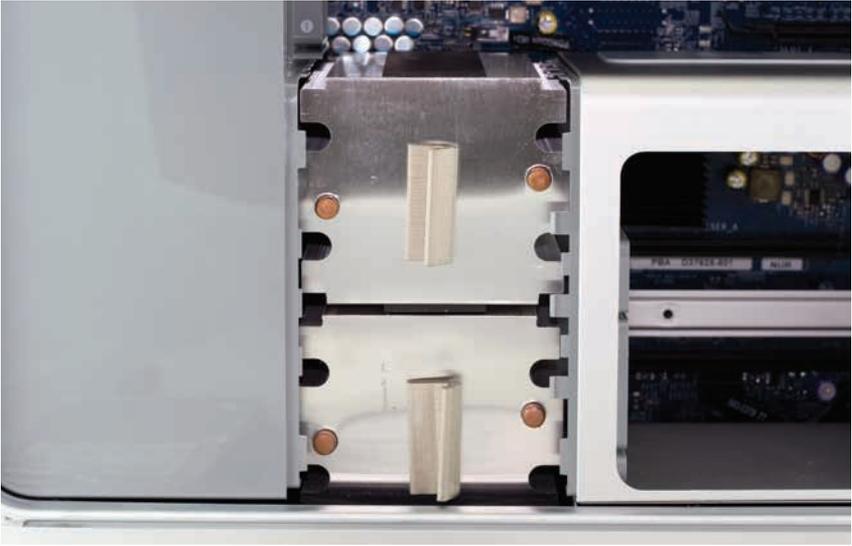
Take the memory bay and gently move it to the right, towards the back of the computer. You'll be able to gently shake it and it will pop loose and move just enough to expose a gap between the processor cover and the memory bay as shown.

---



Once the memory bay is moved, you can pull out on the bottom of the processor cover on the bottom right, and gently remove it from the computer. It hinges up and to the right as shown. It locks into the fan shroud on the left fairly tight.

## 2.1 Mac Pro 667MHz Disassembly



A view of the processor heatsinks with the cover removed.



Some later model Mac Pro systems, especially 8-Core models, have a hidden Phillips screw located at the base of the fan assembly. Unscrew it.

## 2.1 Mac Pro 667MHz Disassembly



Take the L-shaped PCI plate you removed earlier. Starting at the top of the fan shroud, work the short end of the bracket into the gap at the back of the Mac Pro, as shown above. Once the bracket is inserted, you can use it as a hook to help pull the fan assembly out of the Mac Pro. Place the bracket at the bottom left (shown above). Start putting gentle force on the bracket, pulling on it.



Then, using your right hand, gently ease the entire fan assembly out of the computer. You may have to use a slight side-to-side motion as you pull in some cases. It attaches to the logic board via a connector that you don't need to worry about disconnecting, it's a pressure fit.

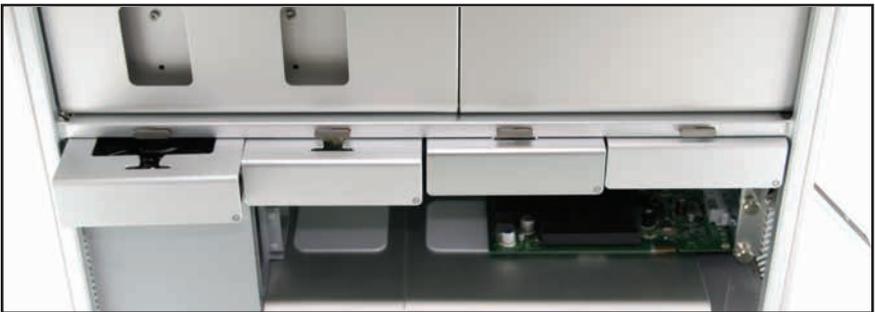
## CHAPTER 3 - MAC PRO 800MHZ DISASSEMBLY

### 3.1 Mac Pro 800 MHz Disassembly



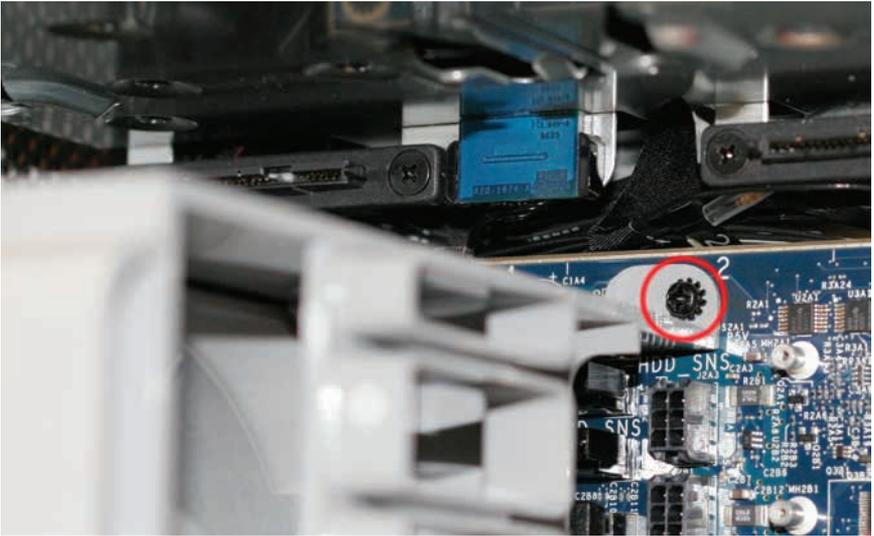
Begin by removing the side door on your Mac Pro.

---



Make sure the latch on the back of the Mac Pro is open, then remove all four of the drive sleds and set them aside.

### 3.1 Mac Pro 800MHz Disassembly



Immediately to the left of the PCI slots, at the top of the logic board, you will see a black screw (circled in red above); use a Phillips #0 screwdriver to remove it.

---



Remove the CPU cover by pulling on it -- it is secured by magnets.

### 3.1 Mac Pro 800MHz Disassembly



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

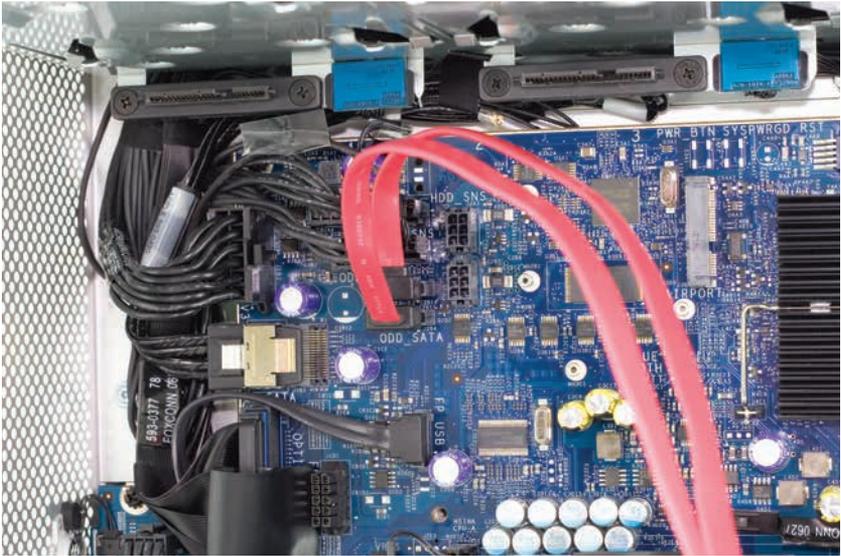
---



Then, using your right hand, gently ease the entire fan assembly out of the computer. You may have to use a slight side-to-side motion as you pull. The fan assembly has a pressure-fit connection to the logic board, it will release itself when the fan housing is free.



## 4.1 Cable Installation



Insert the other SATA cable into the bottom SATA port on the logic board.

---



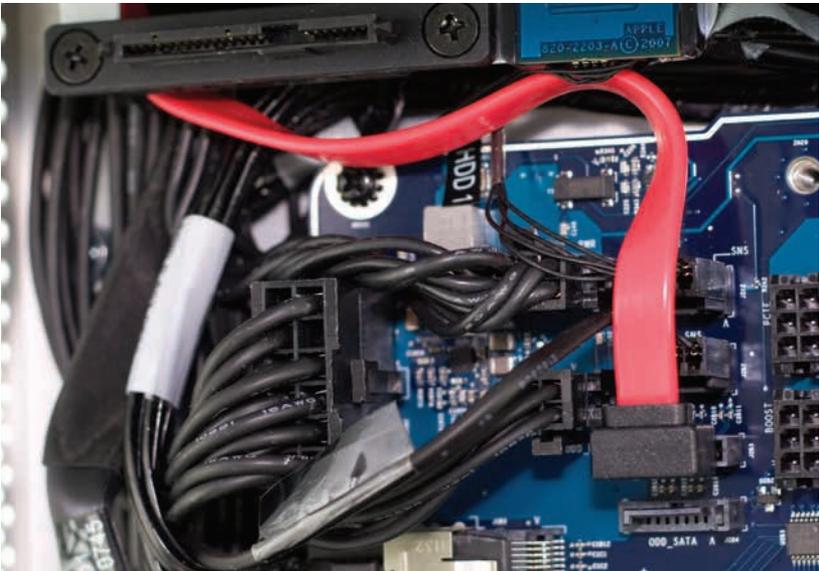
Grasp the optical drive carrier and pull straight out. The carrier may require gentle shaking to dislodge it. Disconnect the power and ATA cables from the back of the optical drive and set the carrier on a work surface.

## 4.1 Cable Installation



Route the SATA cables (that you attached to the logic board earlier), up through the corner of the optical bay -- follow the existing wires.

---



Here you see the proper routing of one of the SATA cables, behind drive tray #1's logic board connector. Make very sure you have the cables all the way tucked in behind the connector before proceeding.

## CHAPTER 5 - BRACKET ASSEMBLY

### 5.1 Installing 3.5" Hard Disk Drives



Begin by positioning the bottom 3.5" Hard Disk Drive (HDD) with the connection ports facing away from you, then pick up the drive bracket labeled as OWC Multi-Mount 3.5".

Attach the Multi-Mount to the bottom 3.5" HDD using the center Phillips screw -- coarse thread -- but don't tighten it completely yet. Attach a second screw to one of the outside holes in order to center the bracket on the HDD. Afterward you can insert the third screw and tighten all three of them firmly.

If you intend to install a second 3.5" drive into the Multi-Mount, continue with installation of that drive following the same steps noted above. **Note:** installation of a second 3.5" drive requires the removal of your optical drive due to height restrictions.

## 5.1 Installing 3.5" Hard Disk Drives



Once you have the right bracket installed, rotate the hard drive and attach the left side bracket using the same method described earlier.

The OWC 3.5" Multi-Mount assembly is now ready to be installed into your system. Chapter 3 includes photos of common installation scenarios. **Note:** you also can add a 2.5" SATA drive using the OWC 2.5" Multi-Mount -- this configuration is covered in the next chapter.

## 5.2 Installing a 2.5" SSD or HDD



To install a 2.5" SATA drive into the Multi-Mount, place the 2.5" drive on the table in front of you, with the connection ports facing to the right side. Take the drive bracket and position it as shown above.

Use the large Phillips screws to affix the drive to the bracket. Note there are rubber grommets used in conjunction with the screws to reduce vibrations.

Once attached, rotate the drive and repeat using the other 2.5" drive bracket. Before moving forward, make certain that all four screws are firmly attached to the drive.

The OWC 2.5" Multi-Mount is now ready to install into a 3.5" drive bay, or into the OWC 3.5" Multi-Mount. Chapter 3 includes photos of common installation scenarios.

### 5.3 Combining the 2.5" and 3.5" Brackets



It is possible to install a total of two 2.5" drives onto the 3.5" OWC Multi-Mount bracket. Note the position of the bracket extension shown above (arrow) relative to the 3.5" bracket. This is important when creating a configuration with two 2.5" drives installed.

**Note:** this shows the underside of the top drive, prior to a second SSD being installed and the remaining brackets added (below).



## 5.4 Installing a 2.5" Drive with a 3.5" Drive



This is a completed assembly comprised of one set of 3.5" OWC Multi-Mount drive brackets, and one set of 2.5" OWC Multi-Mount, all assembled into one unit. Be sure to orient the bracket so that the SATA ports both point towards the rear of the Multi-Mount.

## CHAPTER 6 - OWC MULTI-MOUNT INSTALLATION

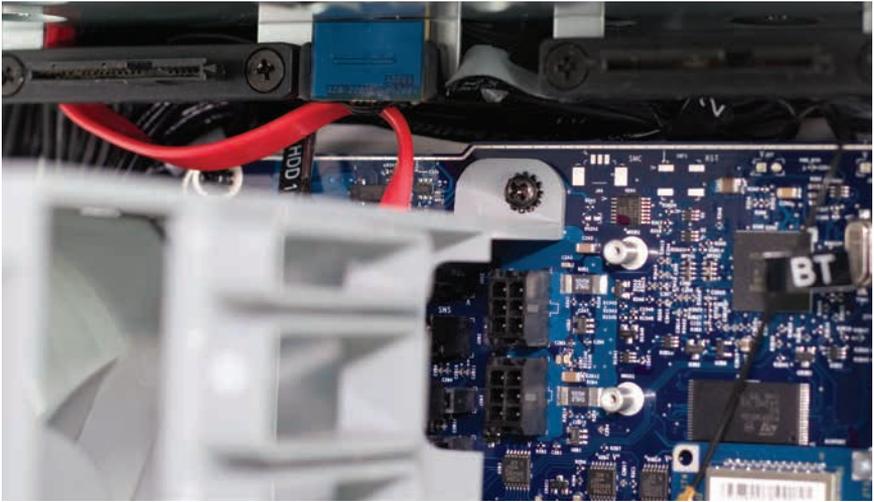
### 6.1 Installing the OWC Multi-Mount into a Mac Pro



First, attach the completed Multi-Mount assembly to the optical drive cage using the four screws that Apple supplies (attached to the cage). Once the Multi-Mount is secured, start sliding the cage back into the optical bay, threading the large cutouts on the bottom of the cage with the large screws on the bottom of the bay.

When the cage is about half way in, connect the SATA device's cables then slide the cage the rest of the way, making sure not to pinch the cables or bend them in the process. **Note:** the Mac Pro's optical bay can support a total of two SATA devices.

## 6.1 Installing the OWC Multi-Mount into a Mac Pro



Reinsert the fan module into the computer, sliding it on its base track and then reinserting its Phillips screw into the logic board. Take careful note of the location of the red SATA cable in this picture -- ensure that the cable is not behind the mounting bracket when you tighten the screw.

---



**Mac Pro 667MHz Owners:** Turn to the end of Chapter 2 and work backwards to complete reassembly of your Mac Pro.

**Mac Pro 800MHz Owners:** Reinsert the Phillips screw you removed from the base of the fan unit. Replace the processor cover to finish the installation process.

### 7.1 Troubleshooting

Having problems installing? Go back and examine the steps and photographs. Most fit issues can be traced to missing a step or screw.

Double check that your brackets are facing the correct direction and that you are not orienting the drive backwards. You want to be sure that the SATA ports are pointing in the right direction for your case installation.

### 7.2 Usage Tips

Once you have installed your drives into the OWC Multi-Mount bracket system, route your cables using the shortest path possible, but do use any holes or grommets that your case has to offer. Don't pinch any cables and make certain to not route your wires over sharp edges or corners.

## CHAPTER 8 - SUPPORT RESOURCES

### 8.1 Frequently Asked Questions

To access our online Knowledgebase including FAQs please visit:  
[www.macsales.com/faq](http://www.macsales.com/faq)

To access our formatting guides, please visit:  
[www.macsales.com/format](http://www.macsales.com/format)

### 8.2 About Data Protection

To ensure that your files are protected and to prevent the loss of your data, we strongly suggest that you keep two copies of your data: one copy on your primary hard drive, and a second copy on either your secondary internal hard drive or another storage medium, such as an optical backup, or on a second external hard drive. Any data loss or corruption while using the OWC Multi-Mount is the sole responsibility of the user, and under no circumstances will Other World Computing be held liable for compensation or the recovery of any lost data.

### 8.3 Contacting Technical Support

8AM - 8PM CT Monday - Friday  
9AM - 4PM CT Saturday

**Phone support:**

(800) 275-4576 (North America only)  
+1 (815) 338-8685 (International)

**Live Chat is available during normal business hours:**

[www.macsales.com/livechat](http://www.macsales.com/livechat)

**Email Support is available at:**

[www.macsales.com/ts\\_email](http://www.macsales.com/ts_email)

**Changes:**

The material in this document is for information purposes only and subject to change without notice. While reasonable efforts have been made in the preparation of this document to assure its accuracy, Other World Computing and its officers and employees assume no liability resulting from errors or omissions in this document, or from the use of the information contained herein. Other World Computing reserves the right to make changes or revisions in the product design or the product manual without reservation and without obligation to notify any person of such revisions and changes.

**Health And Safety Precautions:**

- Use proper anti-static precautions while performing the installation.
- Read this user guide carefully and follow the correct procedures when setting up the device.

**Copyrights and Trademarks:**

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written consent of Other World Computing.

© 2015 Other World Computing. All rights reserved.

Multi-Mount, Other World Computing and OWC are trademarks of New Concepts Development Corporation, registered in the U.S. Patent and Trademark Office and in Canada. The OWC logo is a trademark of New Concepts Development Corporation. Apple and Mac Pro are trademarks of Apple Inc., registered in the U.S. and other countries. Other marks may be the trademark or registered trademark property of their owners.