
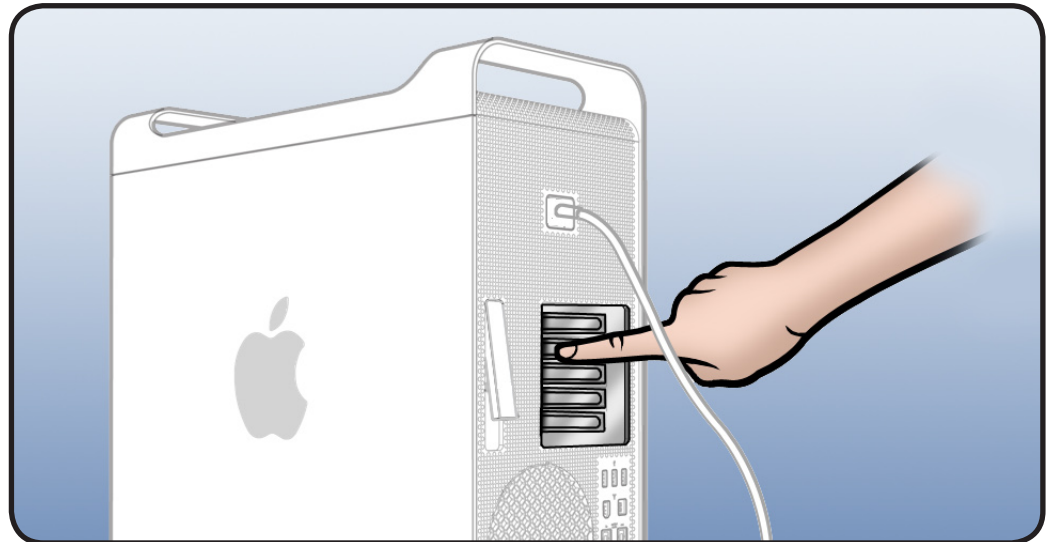


# PCI/Graphics Card Replacement Instructions


## First Steps

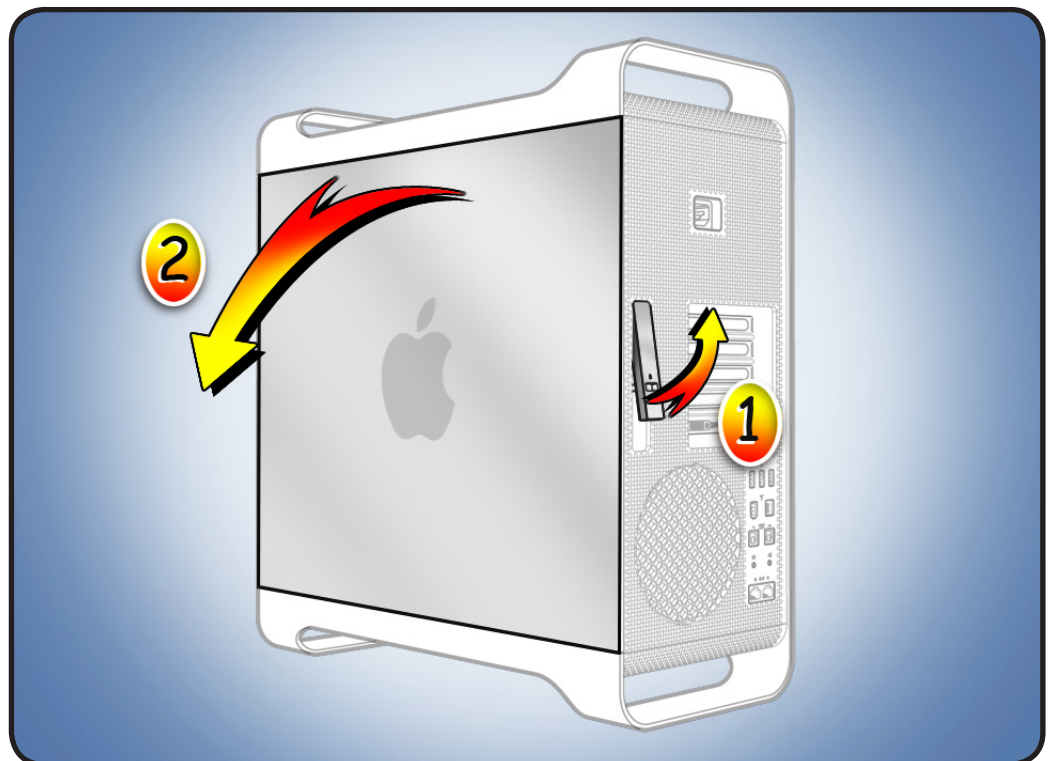
**Note:** Follow these instructions carefully. Failure to do so could damage your equipment and void its warranty.

- 1 Shut down computer.
- 2 Wait 10 minutes.  
 **Warning:** Parts inside computer can be very hot. Allow computer to cool down before continuing.
- 3 Unplug all external cables except power cord.
- 4 Touch metal PCI cover on back of computer.
- 5 Unplug power cord.



## Opening the Computer

- 1 Hold side access panel and lift latch on back of computer.  
 **Warning:** Edges of access panel and enclosure can be sharp. Be careful when handling.
- 2 Remove access panel and place it on flat surface covered by soft, clean cloth.



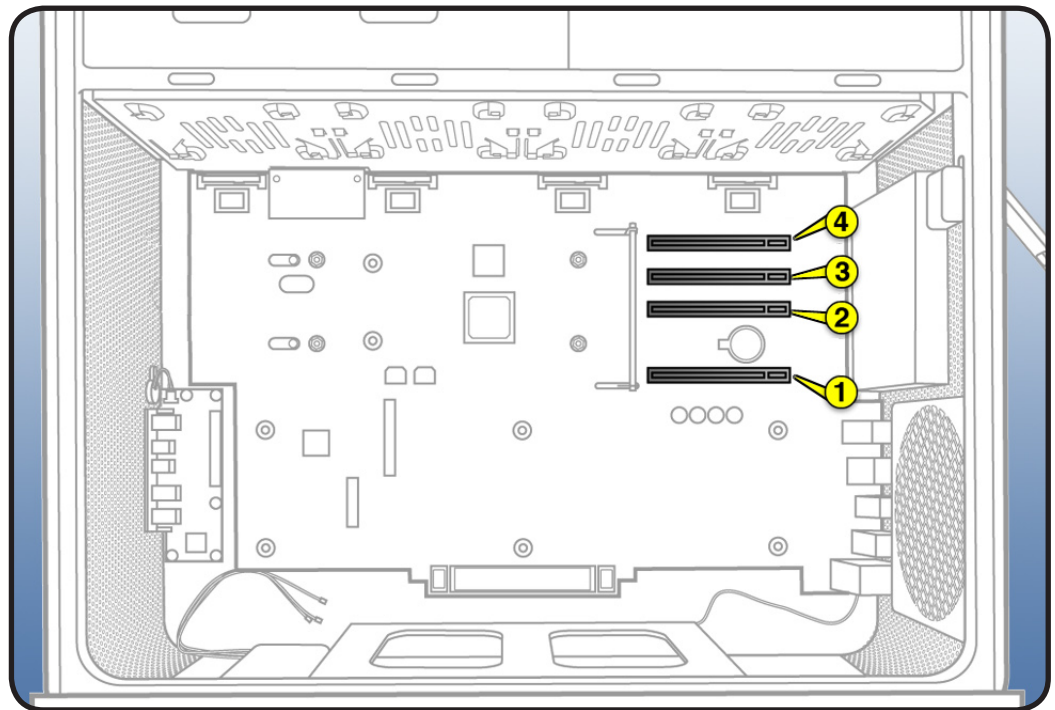
## PCIe Slots

Your computer's backplane board includes one double-wide PCI Express (PCIe) graphics slot and three PCIe expansion slots, for a total of four slots. All four slots physically support cards of up to x16 slot width.

Slot electrical specs:

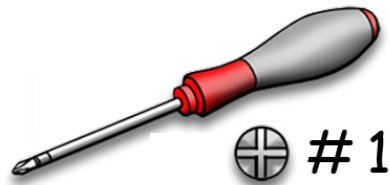
- **Slots 1 and 2:** x16 PCIe 2.0
- **Slots 3 and 4:** x4 PCIe 2.0

**Important:** Combined maximum power consumption for all four PCIe slots must not exceed 300 W.



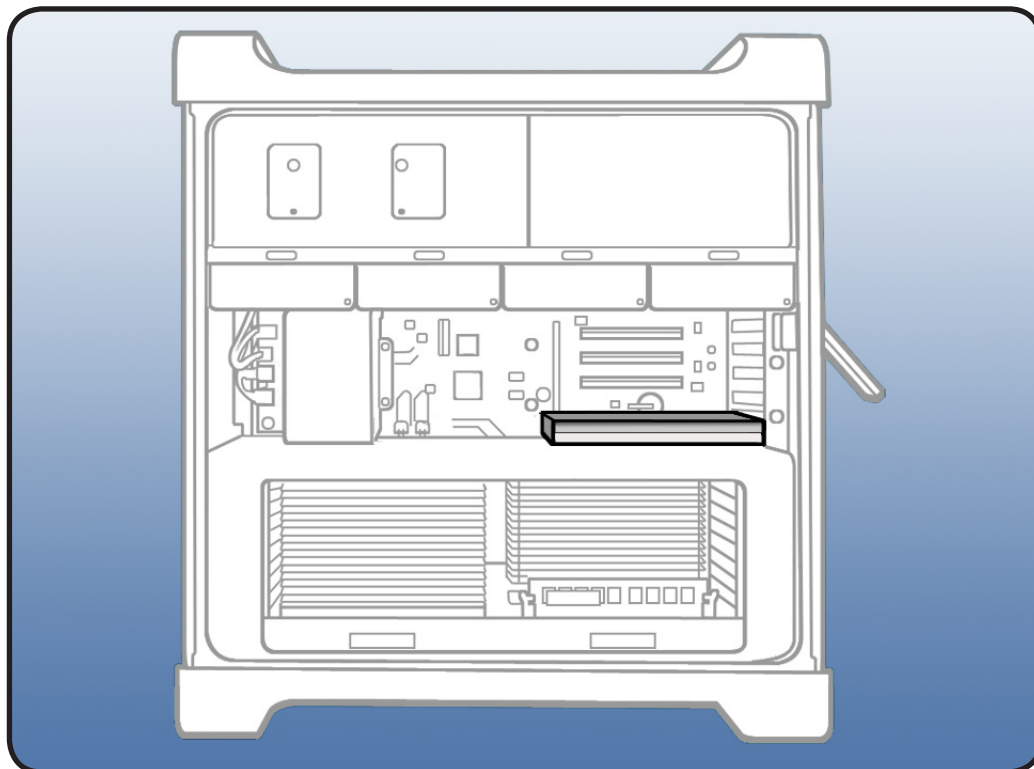
## Required Tool

Phillips #1 screwdriver



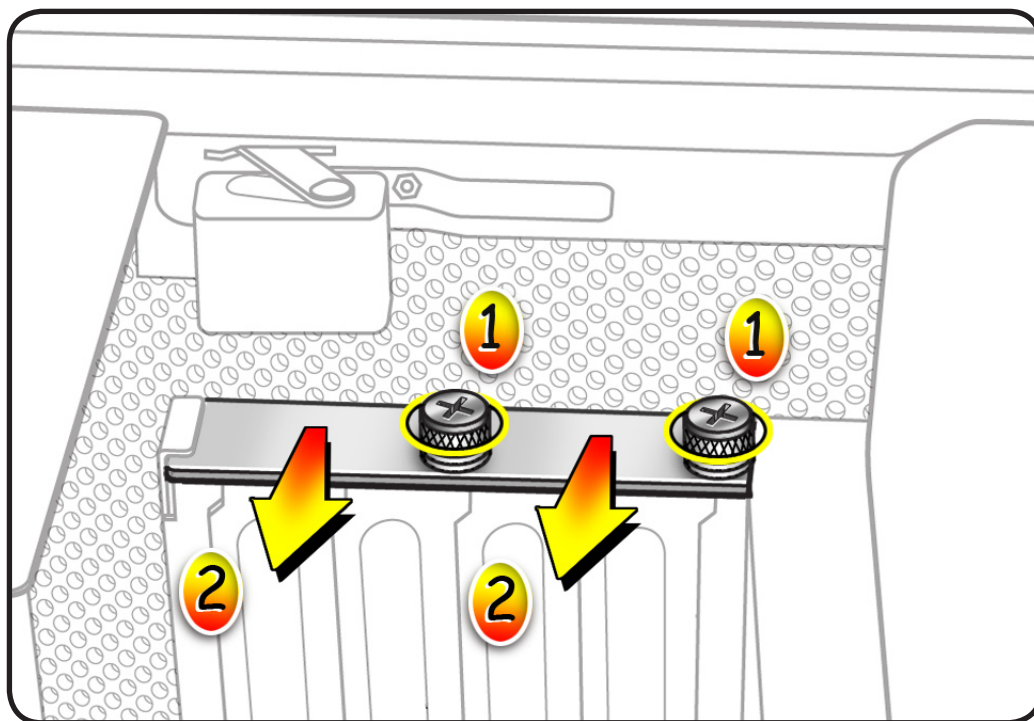
## Removing the Installed PCIe/ Graphics Card

- 1 Locate card.



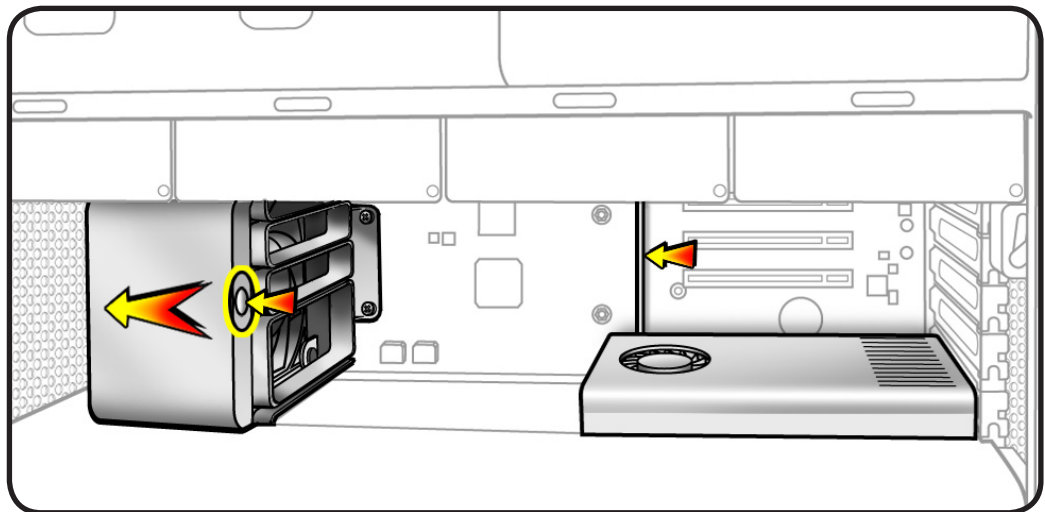
- 2 Using Phillips #1 screwdriver, loosen 2 captive screws securing card's bracket to enclosure.

- 3 Remove bracket from enclosure.



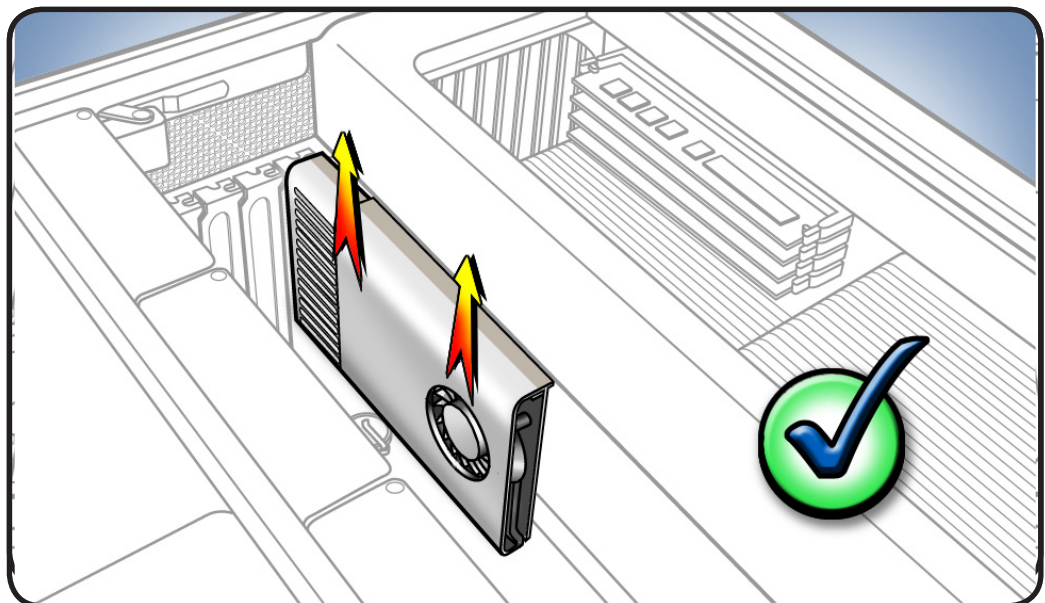
**Note:** Card is held in place by retention bar. Next two steps explain how to release bar.

- 4 Press button on PCIe fan.
- 5 Move fan to left, which releases retention bar.



Holding card by top corners, pull it up out of slot.

- 6 Remove card from computer.



**Checklist for handling card:**

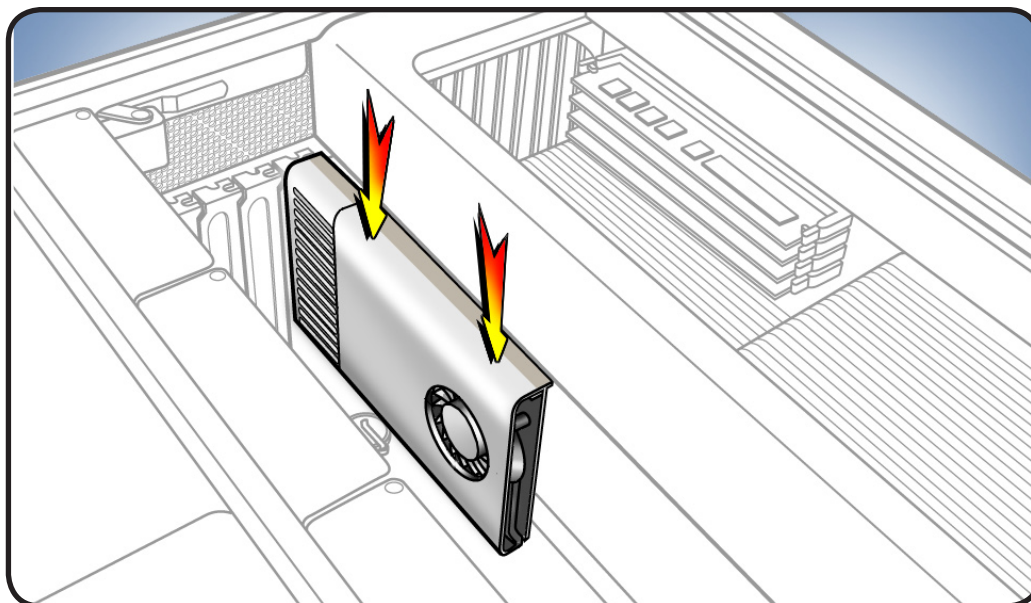
- When removing or installing card, handle it only by the edges. Do not touch its connectors or any components.
- Don't rock card from side to side; instead, lift card straight up from connector to remove it, and press card straight into slot to install it.
- Don't force card. If you meet a lot of resistance, pull card out. Check connector and slot for damage or obstructions, then try inserting card again.
- Pull card gently to see if it is properly connected. If it resists and stays in place and its gold connectors are barely visible, card is connected.



## Installing the Replacement PCIe/Graphics Card

- 1 Install replacement card.

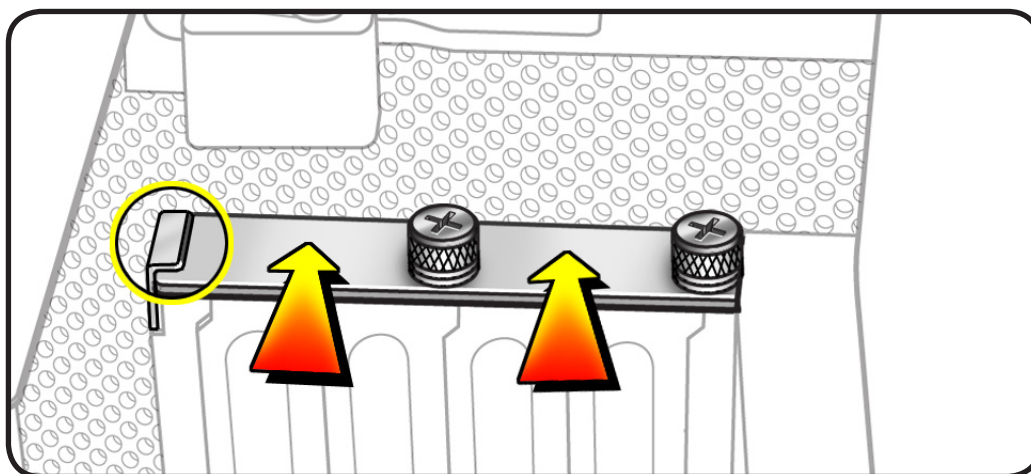
**Note:** Align card's connector with expansion slot and press down until connector is inserted all the way into slot.



- 2 Slide PCIe fan to the right to lock card in place.

- 3 Replace PCI bracket and tighten screws.

**Note:** Slide bracket under circled tab before securing screws.



## Closing the Computer

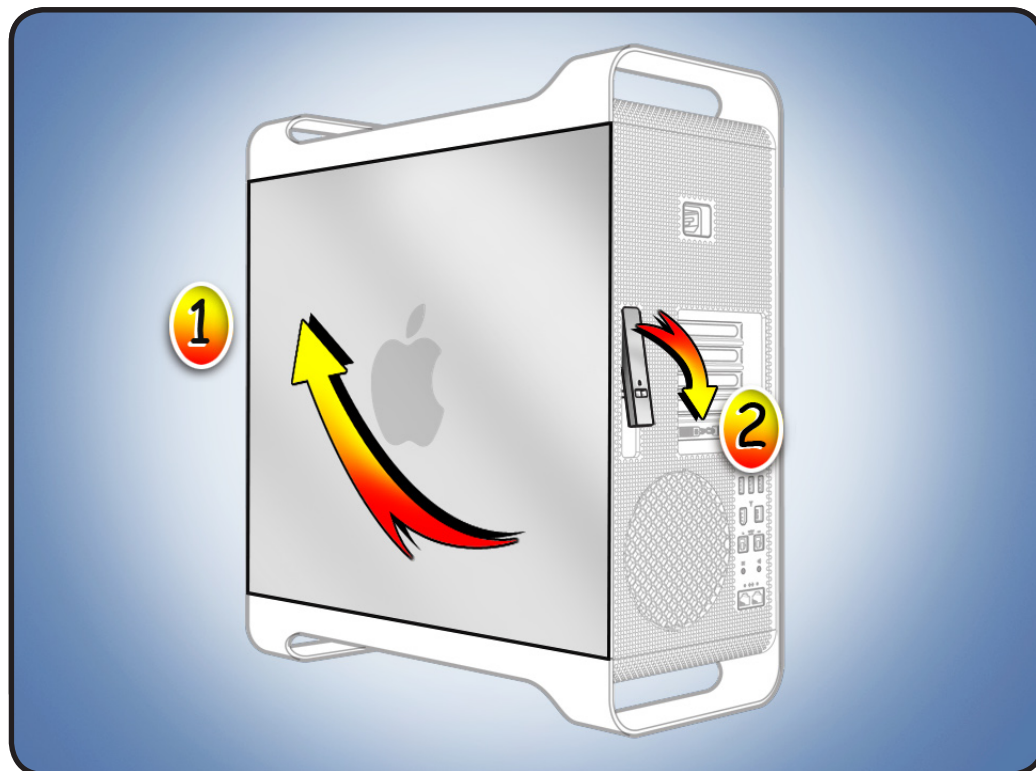
- 1 Replace access panel.

**Note:** Make sure latch is up before you replace panel. If latch is down, panel will not seat correctly.

- 2 Push latch down to close and secure access panel.



**Warning:** Never turn on computer unless all its internal and external parts are in place and it is closed. Operating computer when open or missing parts can cause damage or injury.



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