Power Supply
Replacement Instructions

Follow the instructions in this sheet carefully. Failure to follow these instructions could damage your equipment and void its warranty.

Note: Written and video instructions covering customer-installable parts are available at http://www.info.apple.com/installparts/.

Warning: During this procedure, keep small parts away from children.

Tools Required

The following tools are required for this procedure:
• #2 Phillips screwdriver
• small flat-blade screwdriver
• T-10 Torx driver

Opening the Computer

Warning: Always shut down your computer before opening it to avoid damaging its internal components or causing injury. After you shut down the computer, the internal components can be very hot. Let the computer cool down before continuing.

1. Place your computer on a clean, flat surface.

2. If you think your computer is in sleep, press the power button on the front of the computer to wake it.

3. Shut down your computer and wait five minutes before continuing.

4. If you attached a security cable through the computer's lockable cover latch, remove the cable.

5. Unplug all other cables from the computer except the power cord.

6. Touch the metal PCI access covers on the back of the computer. **(Figure 1)**

   Important: To avoid electrostatic discharge, always ground yourself by touching the port access covers before you touch any parts or install any components inside the computer. To avoid static electricity building back up in your body, do not walk around the room until you have completed the installation and closed the computer.

Figure 1

7. Unplug the power cord.

   Warning: The power supply in your computer is a high-voltage component and should not be opened for any reason, even when the computer is off. If the power supply needs service, contact your Apple reseller or Apple Authorized Service Provider.

8. Lift the latch on the right side access panel.

9. Gently lower the access panel until it lies flat. To avoid scratching the case, lower the panel onto a soft, clean cloth.

Warning: If you see any lights glowing on the main logic board, the computer has not been shut down. Close the side access panel and shut down the computer before proceeding.

Removing the Installed Power Supply

1. Remove the two screws that secure the optical drive carrier to the chassis. **(Figure 2)**

Figure 2

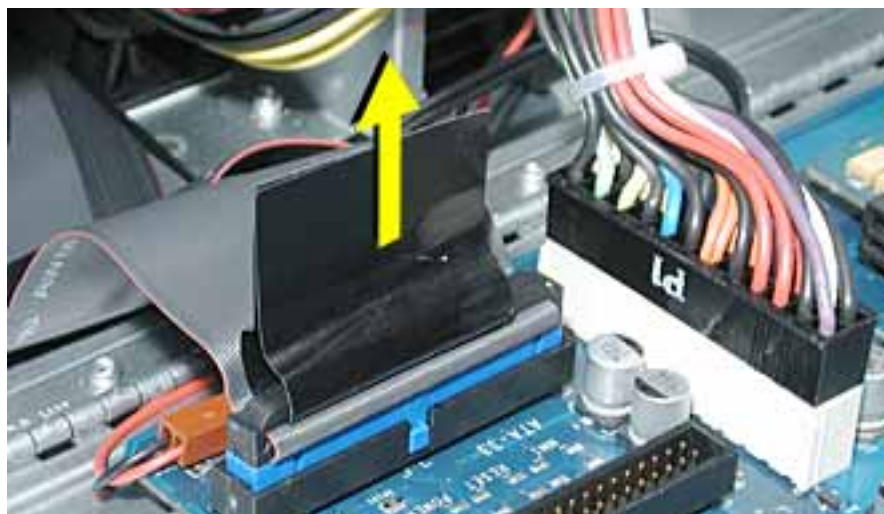2. Slide the back panel off the carrier. **(Figure 3)**

Figure 3

3. Slide the carrier back and rotate it so that you can reach the drive cables.

4. Disconnect the drive data and power cables (P6 and P7) from the back of the optical drive(s) and remove the carrier from the computer. **(Figure 4)**
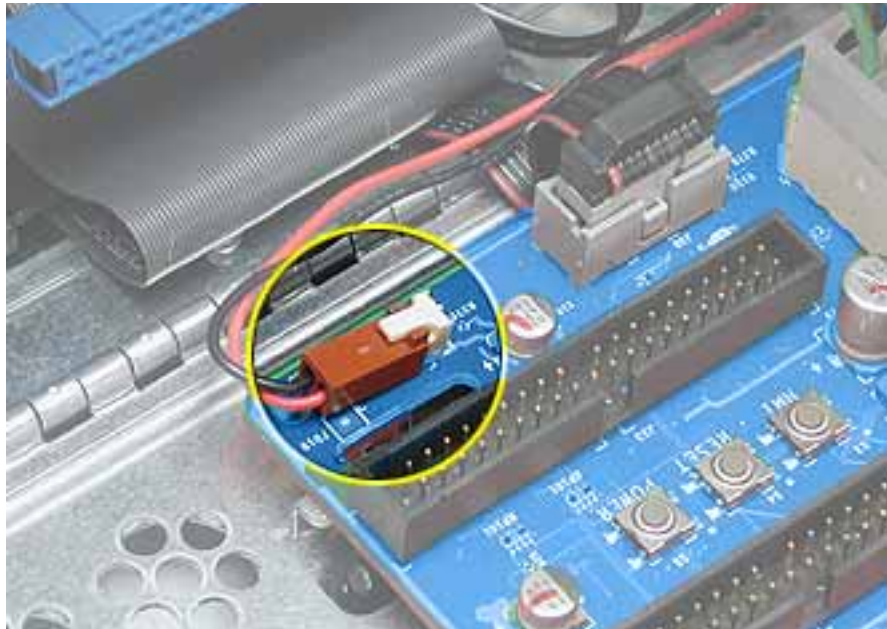
Figure 4

5. Disconnect the ribbon cable from the logic board and fold it back to expose the lower fan cable connector. **(Figure 5)**

Figure 5

6. Using a small flat-blade screwdriver, gently lift up the locking tab on the lower fan cable and disconnect the cable from the logic board. **(Figure 6)**

Figure 6

7. Slide the fan straight up to disconnect it from the optical drive shelf, and remove the fan from the computer. **(Figure 7)**

Figure 7

8. Use a T-10 Torx driver to remove the power supply screw. **(Figure 8)**

Figure 8

9. Remove the Phillips screw from the side panel. **(Figure 9)**

Figure 9

10. Disconnect the power supply cables from all drives and from the logic board.

11. **Note:** For the Power Mac G4 (FW 800) model of the computer, press and hold the tab on the black, plastic connector cover as you pull up the power connector from the board.**(Figure 10)**

    Replacement Note: Install the connector cover over the power connector for the replacement power supply.

Figure 10

12. Release the power cable harness from the guides and route the harness out through the opening in the optical drive shelf.**(Figure 11)**

Figure 11

13. Slide the power supply forward and remove the power supply and cable harness from the computer. **(Figure 12)**

Figure 12

Installing the Replacement Power Supply

1. Install the replacement power supply.

    Replacement Note: When rerouting the cable harness, make sure
    • connectors P4 and P5 are routed inside the front drive carrier
    • connectors P2 and P3 are routed so they can reach drives in the back drive carrier
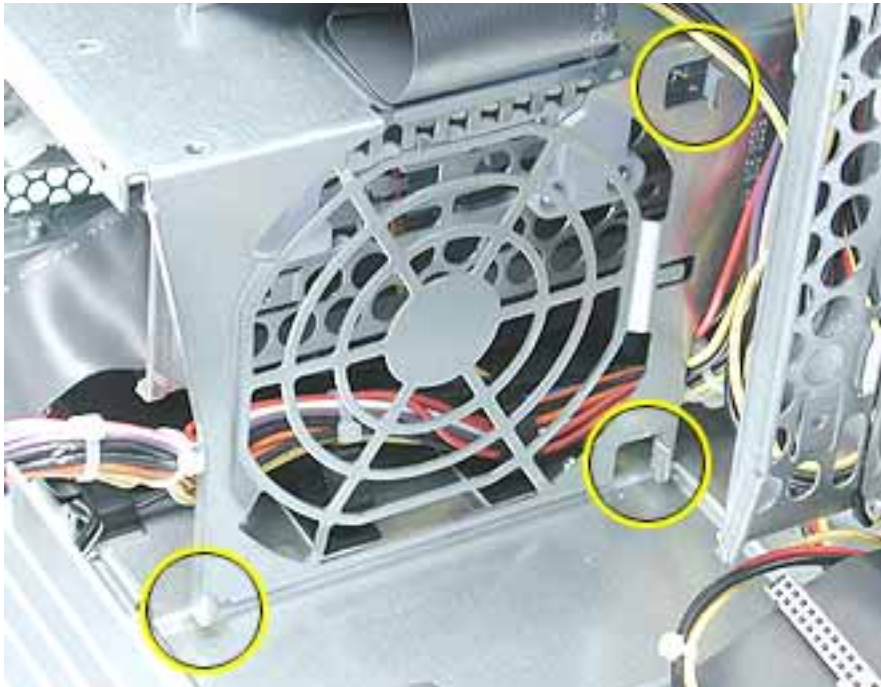   **(Figure 13)**

Figure 13

2. Reinstall the fan.

   Replacement Note: Align the fan with the three latches in the drive shelf and slide straight down until you feel the fan lock into place. **(Figure 14)**

Figure 14

   Replacement Note: Route the fan cable under the ribbon cable and over the narrower flex cable, as shown. **(Figure 15)**

Figure 15

3. Reinstall the optical drive carrier.

   Replacement Note: Before sliding the carrier back onto the optical drive shelf, make sure the power cable bundle at the side panel are routed in the recessed channel. **(Figure 16)**

Figure 16

   Replacement Note: When sliding the carrier back onto the optical drive shelf, make sure the latch on the underside of the carrier engages with the notch in the drive shelf. **(Figure 17)**

Figure 17

Replacement Note: Before sliding the rear panel back onto the carrier, make sure the top lip of the panel engages with the top edge of the drive carrier.

Warning: Be careful not to pinch the power cable between the panel and the carrier. **(Figure 18)**

Figure 18

Closing the Computer

1. Raise the side access panel, lift the latch, and press the panel against the case until it snaps securely into place.

2. Reconnect all cables and restart your computer.

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