

Part No. 312751-C
August 2002

4401 Great America Parkway
Santa Clara, CA 95054

Installing an AC Power Supply in a 8000 Series Switch



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Preface

This guide provides information about the AC power supply used in the 8000 Series chassis and instructions for adding and replacing an AC power supply in the following 8000 Series chassis models:

- 8003 Chassis
- 8006 Chassis
- 8010 Chassis
- 8010co Chassis

For a list of related publications, see the release notes that accompany your software.

Before you begin

This guide is intended for qualified service personnel who need to add or replace an AC power supply in a 8000 Series chassis. A qualified service person should have appropriate technical training and experience and be aware of the hazards involved in installing and replacing customer-replaceable units.

Text conventions

This guide uses the following text conventions:

italic text

Indicates new terms and book titles.

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Chapter 1

Installing power supplies

This guide contains information about installing power supplies. It includes the following topics:

Topic	Page
Power supplies for the 8000 Series Chassis	17
Removing the bottom bezel (8010co Chassis)	21
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Power supplies for the 8000 Series Chassis

The 8006, 8010, and 8010co Chassis have three bays for power supplies. The 8003 Chassis has two bays for power supplies. Use the AC power supply for AC input power. Use [Table 2](#) to determine which power supply to install for your chassis.

Table 1 Power supply model to install for your chassis

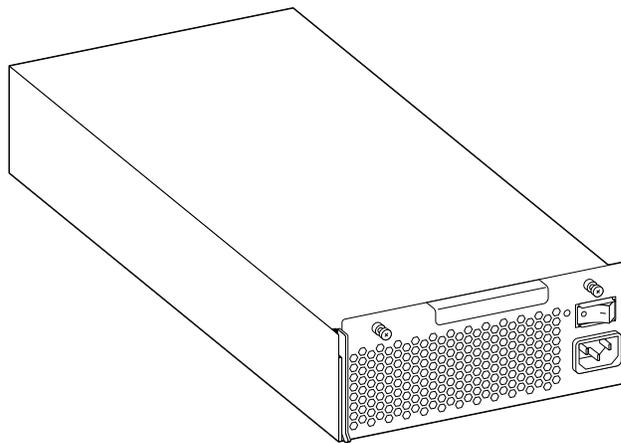
Chassis	AC power supply model
8003	8003AC
8006	8004ACC
8010	8004AC
8010co	8004AC



Note: The 8003AC and 8004AC power supplies are not interchangeable.

Figure 1 shows the 8003AC power supply

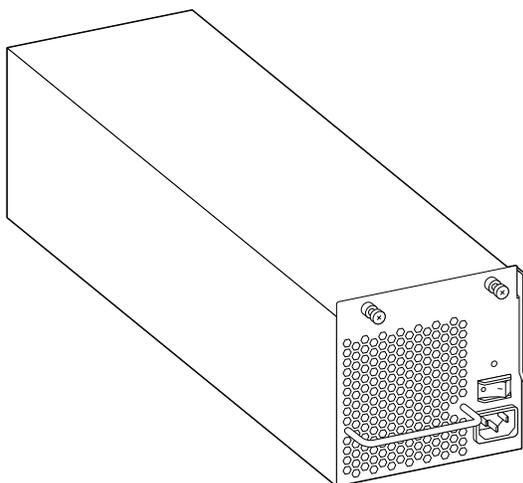
Figure 2 8003AC Power Supply



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Figure 2 shows a 8004AC power supply.

Figure 3 8004AC power supply



10221FA

Table 2 describes the power supply LED on the AC power supply.

Table 2 Power supply LED

State	Meaning
Off	No output is present.
On (green)	Power supply output is normal.

The 8000 Series Chassis ships with no installed power supplies. Install the first power supply in the leftmost bay. Power supply bays are numbered 1, 2, and 3 left to right as viewed from the front of the chassis for the 8006, 8010, and 8010co. Power supply bays are numbered 1 and 2 left to right for the 8003 Chassis.

For the 8003 Chassis, the number of power supplies that you need to install— 1 or 2—depends on whether you want an optional redundant power supply. For the 8006 and 8010 Chassis, the number of power supplies that you need to install—1, 2, or 3—depends on the number of modules installed in the chassis and whether you want an optional redundant power supply. For the 8010co Chassis, the number of power supplies that you need to install— 2 or 3—depends on whether you want an optional redundant power supply (Table 3).

Table 3 Number of power supplies to install

Chassis	Number of modules ¹	Number of power supplies	
		Required	Redundant configuration
8003	1—3	1	2
8006	1—5	1	2
	6	2	3
8010	1—5	1	2
	6—10	2	3
8010co	1—10	2	3

¹ Includes 1 CPU module for the 8003 chassis; 1 or 2 CPU modules for the 8006, 8010, or 8010co chassis.

If a chassis has a redundant power configuration and one power supply fails, the chassis continues to operate with no interruption of service.



Note: When you plug the power cord for each power supply into a separate AC circuit, the redundant power supply also provides protection against the disconnection or failure of an individual circuit.

If a chassis has the minimum power supply configuration and one power supply fails, the system loses power and network connectivity.

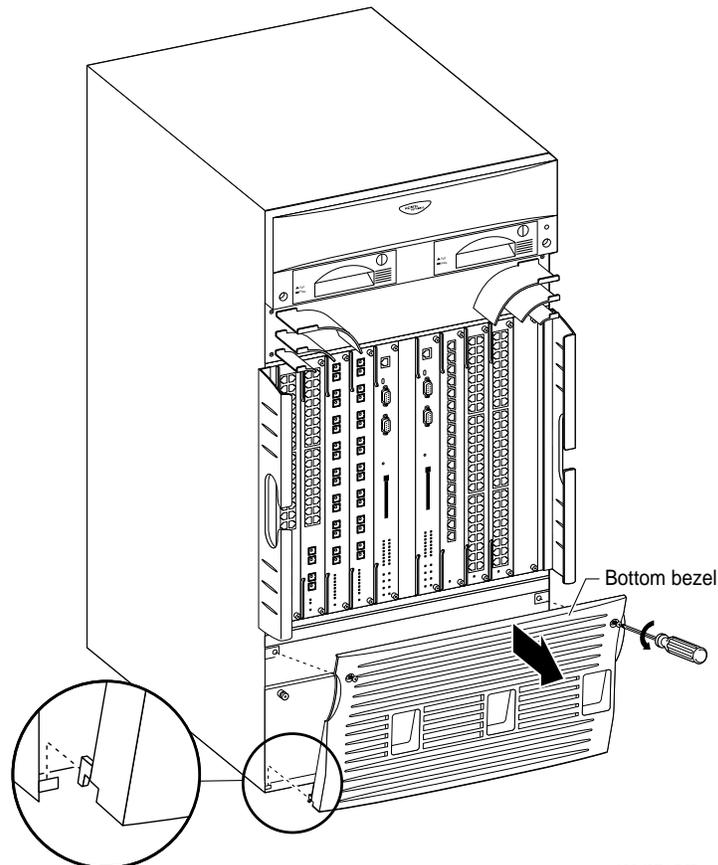
Removing the bottom bezel (8010co Chassis)

To access the 8010co Chassis power supplies, you must remove the bottom front bezel.

To remove the bottom bezel:

- 1 Using a Phillips screwdriver, loosen the 2 captive screws that secure the bezel to the chassis (Figure 3).
- 2 Pull the top of the bezel forward and then lift the bezel from the two tabs on the bottom of the chassis.

Figure 4 Removing the 8010co Chassis bottom bezel



10363FABIPnew

Removing and installing a power filler panel

A power filler panel maintains the proper cooling airflow in the 8000 Series chassis. If you remove a power supply from the 8000 Series chassis without replacing it, you must install a power filler panel. When you install a power supply, you must first remove the power filler panel from the power bay.

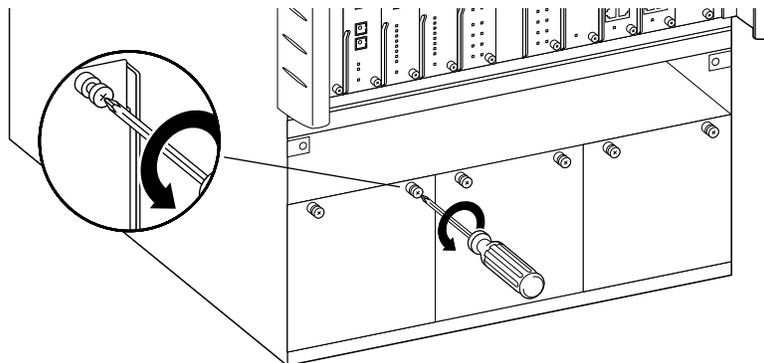
To remove a power filler panel:

- 1 If you are removing a power filler panel from the 8010co Chassis, remove the bottom front bezel.

For instructions, see [“Removing the bottom bezel \(8010co Chassis\)”](#) on [page 21](#).

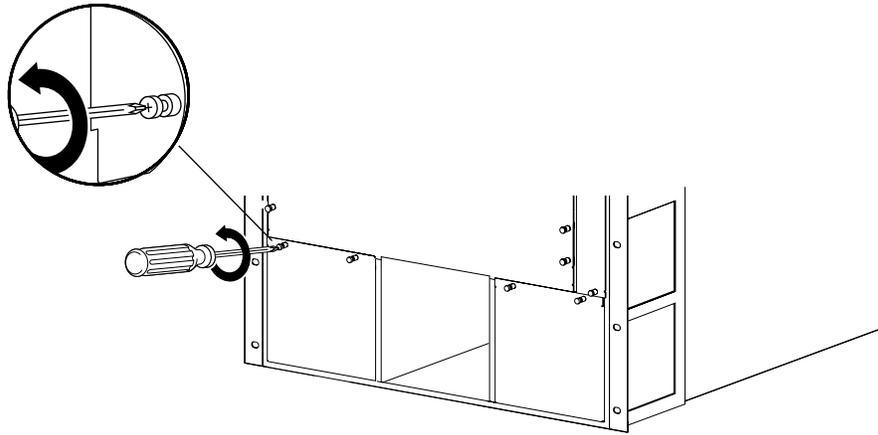
- 2 Using a Phillips screwdriver, loosen the 2 captive screws that fasten the power filler panel to the chassis until the screws are free of the threads in the chassis frame ([Figure 4](#), [Figure 5](#), and [Figure 6](#)).

Figure 5 Removing a power filler panel: 8010co Chassis



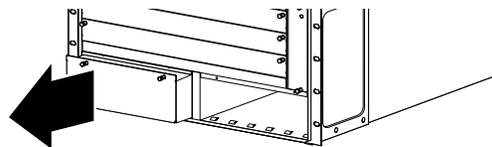
10416FA

Figure 6 Removing a power filler panel: 8006 and 8010 Chassis



8957FBO

Figure 7 Removing a power filler panel: 8003 Chassis



10240FA

- 3 Pull the power filler panel out of the 8000 Series chassis.



Caution: Save the power filler panel in case you need to operate the 8000 Series chassis with a power supply removed.

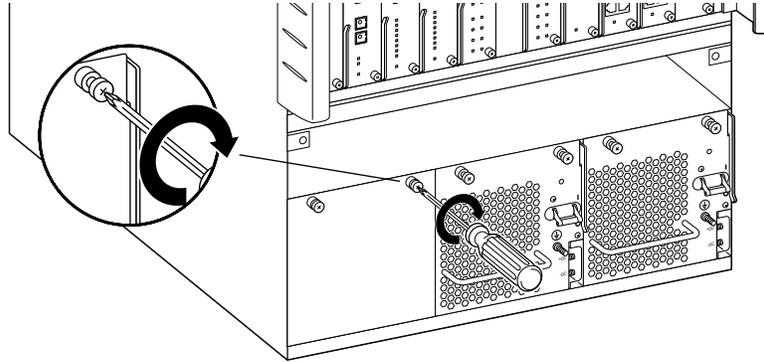
To install a power filler panel:

- 1 If you are installing a power filler panel in the 8010co Chassis, remove the bottom front bezel.

For instructions, see [“Removing the bottom bezel \(8010co Chassis\)”](#) on page 21.

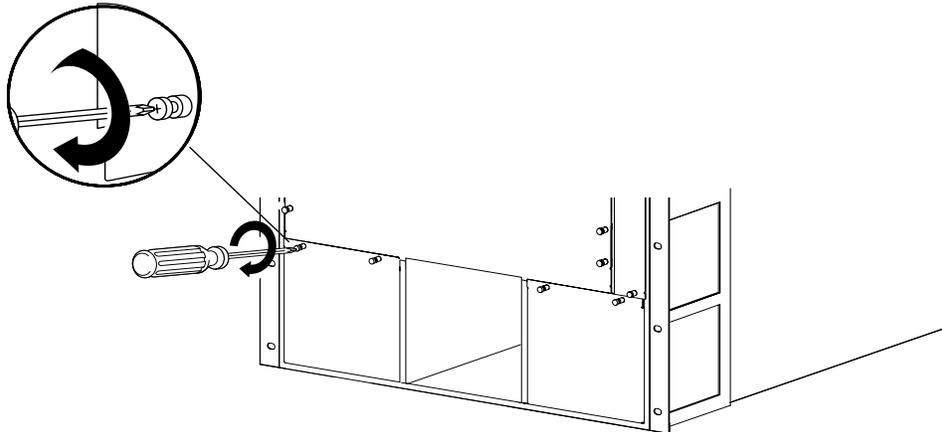
- 2 Place the power filler panel in the empty power supply bay (Figure 7, Figure 8, and Figure 9).
- 3 Tighten the 2 captive screws until the power filler panel is seated firmly.

Figure 8 Installing a power filler panel: 8010co Chassis

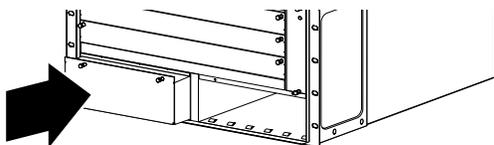


10415FA

Figure 9 Installing a power filler panel: 8006 and 8010 Chassis



8957FBI

Figure 10 Installing a power filler panel: 8003 Chassis

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Installing the AC power supply

To install an AC power supply:

- 1 If you are installing the power supply in a 8010co Chassis, remove the bottom front bezel.

For instructions, see [“Removing the bottom bezel \(8010co Chassis\)”](#) on page 21.

- 2 Remove the filler panel from the power bay if necessary.

For instructions, see [“Removing and installing a power filler panel”](#) on page 22.



Caution: Save the power filler panel in case you need to operate the 8000 Series chassis with a power supply removed.

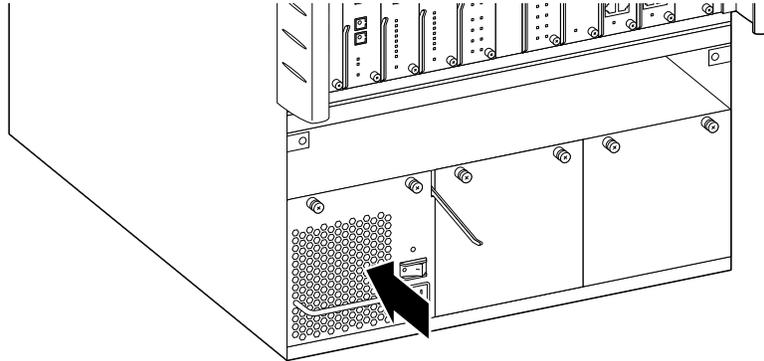
- 3 If you are replacing a failed power supply, remove the failed supply.

For instructions, see [“Removing the AC power supply”](#) on page 31.

- 4 Grasp the handle of the new power supply.

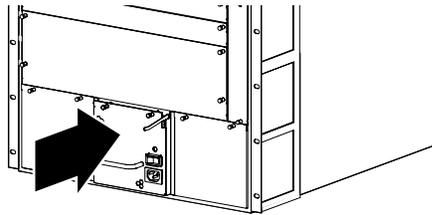
- 5 Push the power supply firmly into the bay (Figure 10, Figure 11, and Figure 12).

Figure 11 Installing the AC power supply: 8010co Chassis



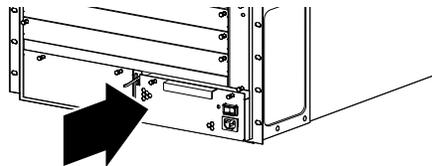
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Figure 12 Installing the AC power supply: 8006 and 8010 Chassis



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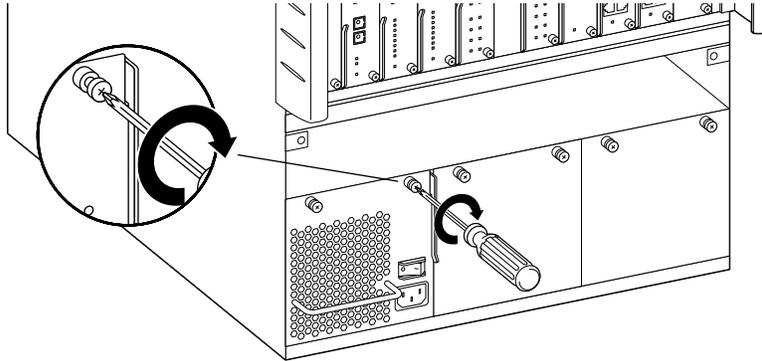
Figure 13 Installing the AC power supply: 8003 Chassis



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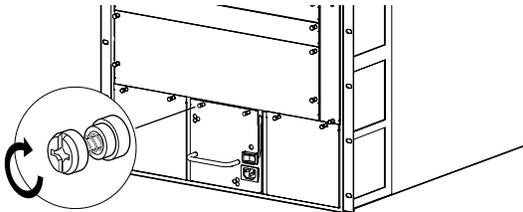
- 6 Tighten the retaining screws until the power supply is seated firmly (Figure 13, Figure 14, and Figure 15).

Figure 14 Tightening the retaining screws: 8010co Chassis



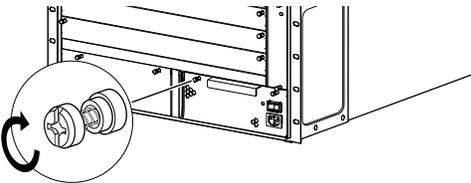
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Figure 15 Tightening the retaining screws: 8006 and 8010 Chassis



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Figure 16 Tightening the retaining screws: 8003 Chassis

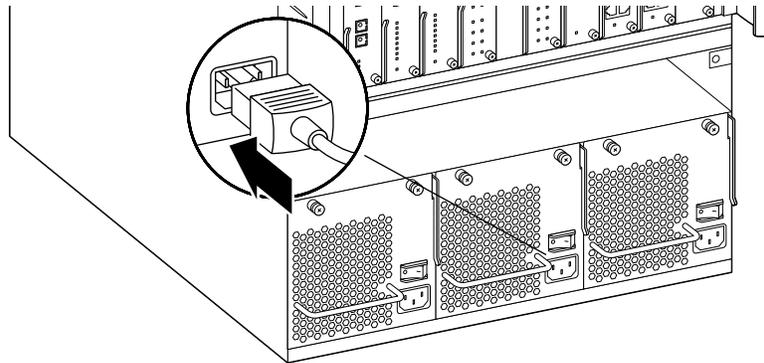


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- 7 Connect the power cord to the power supply and to an AC power outlet that is on a circuit with no other equipment connected to it (Figure 16, Figure 17, and Figure 18).

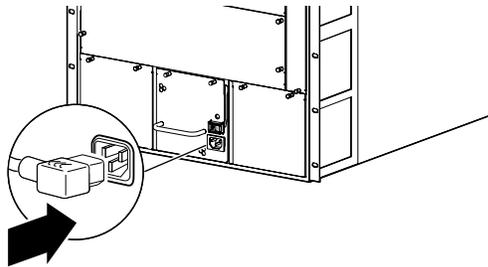
Connect each power supply in the chassis to a separate AC circuit.

Figure 17 Connecting the power cord: 8010co Chassis



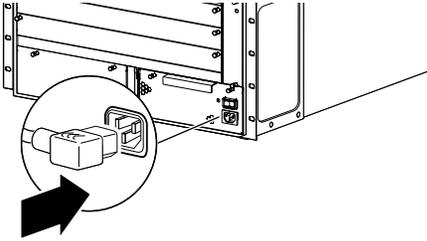
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Figure 18 Connecting the power cord: 8006 and 8010 Chassis



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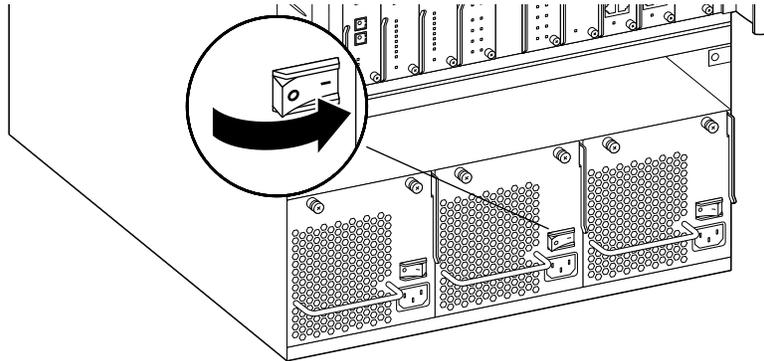
Figure 19 Connecting the power cord: 8003 Chassis



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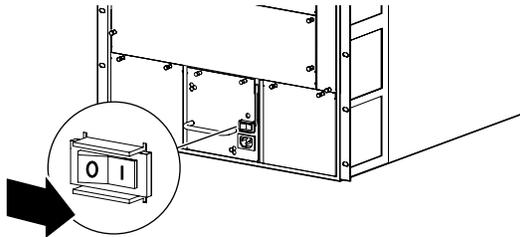
8 Turn on the power switch (Figure 19, Figure 20, and Figure 21).

Figure 20 AC power supply power switch on: 8010co Chassis



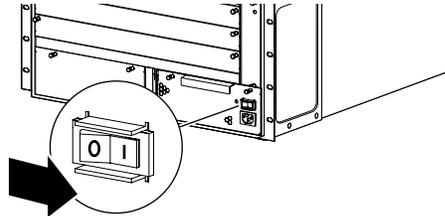
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Figure 21 AC power supply power switch on: 8006 and 8010 Chassis



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Figure 22 AC power supply power switch on: 8003 Chassis



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Note: When you first install a 8000 Series chassis that requires two power supplies, you must turn on both power supply units within 2 seconds of each other. If you wait longer to turn on the second power supply, both power supplies shut down. To correct this condition, turn off both power supplies, wait at least 30 seconds, and then turn on both power supplies again within 2 seconds.

Removing the AC power supply

You can remove a redundant power supply without affecting the operation of the 8000 Series switch. When you remove a power supply, the LED on the power supply turns off, and the 8000 Series Chassis automatically redistributes the load to the remaining power supplies.

You should replace a failed power supply as soon as possible to restore high-availability operation.



Caution: To maintain proper cooling, never operate the 8000 Series chassis with an empty power supply bay. If you are replacing a failed power supply and you do not have a power filler panel, leave the failed power supply installed until a replacement power supply is available.

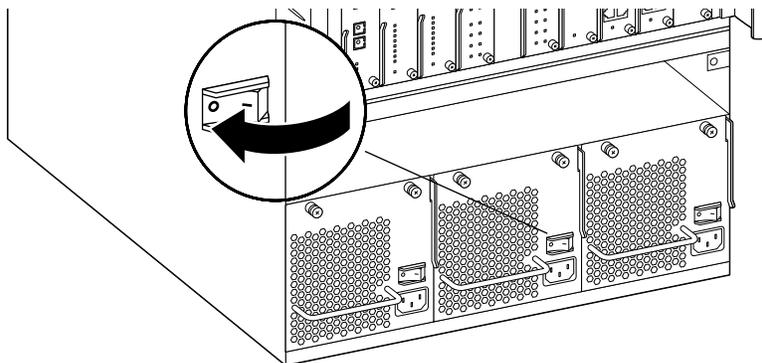
To remove an AC power supply:

- 1 If you are removing a power supply from a 8010co Chassis, remove the bottom front bezel.

For instructions, see [“Removing the bottom bezel \(8010co Chassis\)”](#) on page 21.

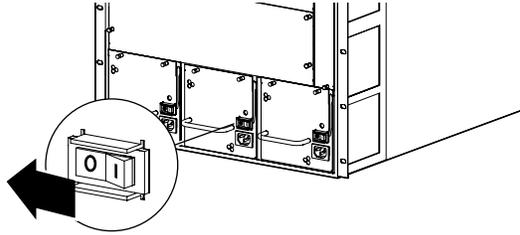
- 2 Turn off the power switch on the power supply that you are replacing ([Figure 22](#), [Figure 23](#), and [Figure 24](#)).

Figure 23 AC power supply power switch off: 8010co Chassis



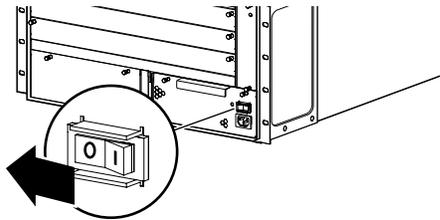
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Figure 24 AC power supply power switch off: 8006 and 8010 Chassis



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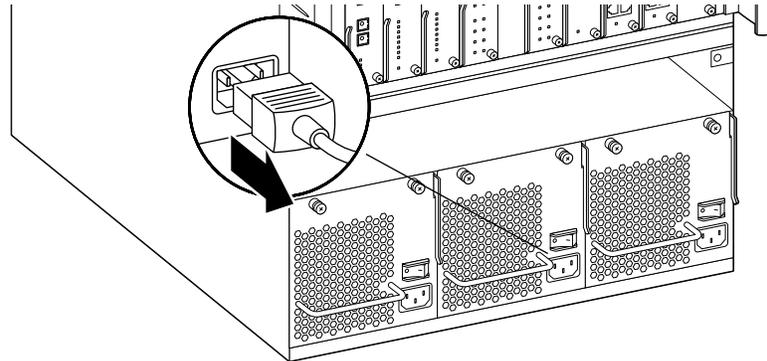
Figure 25 AC power supply power switch off: 8003 Chassis



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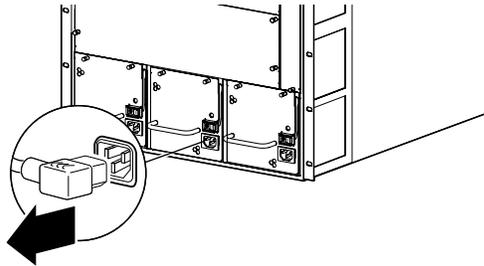
- 3** Disconnect the power cord from the power outlet and from the power supply (Figure 25, Figure 26, and Figure 27).

Figure 26 Disconnecting the power cord: 8010co Chassis



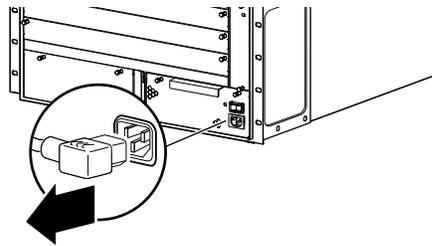
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Figure 27 Disconnecting the power cord: 8006 and 8010 Chassis



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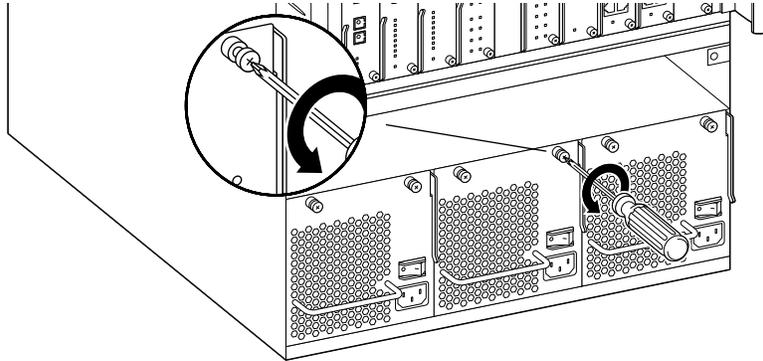
Figure 28 Disconnecting the power cord: 8003 Chassis



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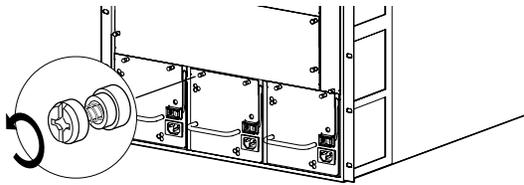
- 4 Loosen the 2 retaining screws on the power supply ([Figure 28](#), [Figure 29](#), and [Figure 30](#)).

Figure 29 Loosening the retaining screws: 8010co Chassis



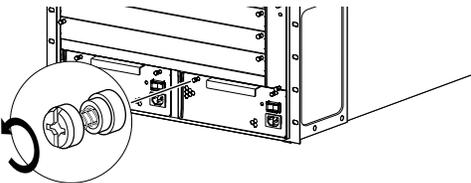
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Figure 30 Loosening the retaining screws: 8006 and 8010 Chassis



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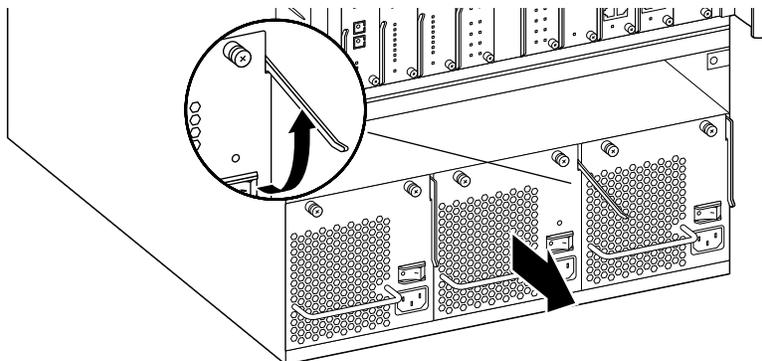
Figure 31 Loosening the retaining screws: 8003 Chassis



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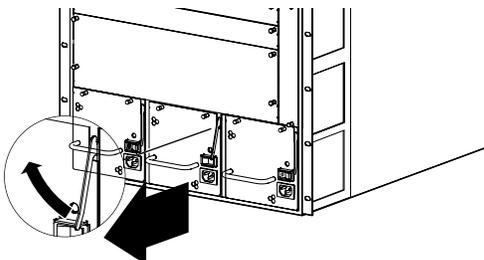
- 5 Lift the extractor lever to disconnect the power supply from the backplane connector (Figure 31, Figure 32, and Figure 33).
- 6 Pull the power supply out of the chassis.

Figure 32 Removing the power supply: 8010co Chassis



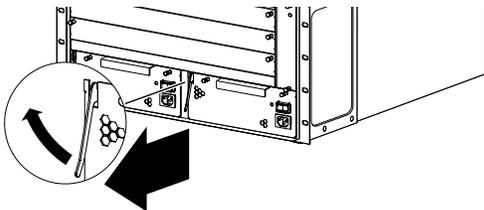
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Figure 33 Removing the power supply: 8006 and 8010 Chassis



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Figure 34 Removing the power supply: 8003 Chassis



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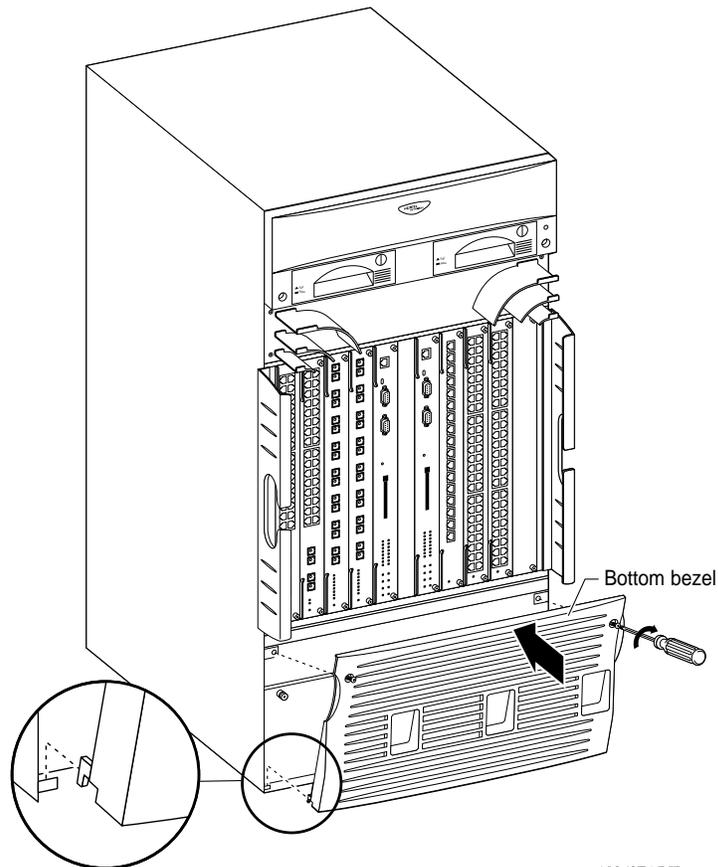
- 7 Install a new power supply (see “Installing the AC power supply” on page 25) or install a power filler panel (see “Removing and installing a power filler panel” on page 22).

Replacing the bottom bezel (8010co Chassis)

To replace the bottom bezel:

- 1 Hook the two bezel slots on the two chassis tabs (Figure 34).

Figure 35 Replacing the 8010co Chassis bottom bezel



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- 2 Align the captive screws with the holes on the front of the chassis ([Figure 34](#)).
- 3 Push the sides of the bezel into place.
- 4 Using a Phillips screwdriver, tighten the 2 screws to secure the bezel to the chassis ([Figure 34](#)).

Appendix A

Electrical specifications for the AC power supply

This appendix lists the electrical specifications for the 8003AC power supply and the 8004AC power supply. Refer to your chassis installation manual for system power specifications.

8003AC Power Supply specifications: 8003 Chassis

Input voltage:	100 -240 VAC
Line frequency:	47 - 63 Hz
Input current (maximum):	9 to 4.5 A per power supply
Input power:	770 W maximum
Input volt amperes rating:	765 VA maximum
Output power	500 W
Thermal rating:	2625 Btu/hr maximum

8004AC Power Supply specifications: 8006, 8010, and 8010co Chassis

Input voltage:	100 - 240 VAC
Input frequency:	47 - 63 Hz
Input current (maximum):	12 -6 A per power supply
Input power:	1308 W
Input volt amperes rating:	1.3 kilovolt amperes (kVA)
Output power:	850 W maximum (110 -240 VAC) derated 780 W maximum (100-109 VAC)

