



Sun Storage J4400 Array Power Supply Replacement Guide

Sun Microsystems, Inc.
www.sun.com

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Removing and Replacing a Power Supply

This document describes replacement procedures for the power supply customer replaceable unit (CRU) installed in the Sun Storage J4400 Array. This document assumes you have:

- Identified the tray containing the failed power supply.
- Received the replacement power supply.

This product is intended for restricted access whereby access is controlled through the use of a means of security (for example, key, lock, tool, badge access), and personnel authorized for access have been instructed on the reasons for the restrictions and any precautions that need to be taken.

ESD Precautions

When performing this service action, observe the following electrostatic discharge (ESD) precautions:

- Remove all plastic, vinyl, and foam material from the work area.
- Wear an antistatic wrist strap at all times when handling any CRU.
- Before handling any CRU, discharge any static electricity by touching a grounded surface.
- Do not remove a CRU from its antistatic protective bag until you are ready to install it.
- After removing a CRU from the cabinet, immediately place it in an antistatic bag or antistatic packaging.
- Handle any card that is part of a CRU only by its edges and avoid touching the components or circuitry.

- Do not slide a CRU over any surface.
- Limit body movement (which builds up static electricity) during the removal and replacement of a CRU.

Power Supply Components

Each J4400 Array contains two hot-swappable, redundant power supplies. If one power supply is turned off or malfunctions, the other power supply maintains electrical power. Each power supply contains two internal fans that provide cooling for the J4400 Array components.



Caution – Only trained service personnel should remove the covers on this equipment.

FIGURE 2 shows the location of power supplies 0 (left) and 1 (right) as viewed from the back of the disk tray. FIGURE 2 identifies the power supply components.

FIGURE 1 Location of Power Supplies 0 and 1 (Tray Back View)

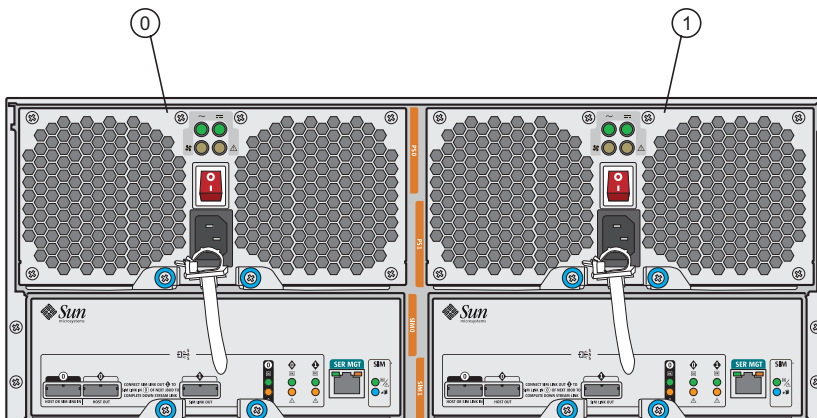


FIGURE 2 Power Supply LEDs and Components (Tray Back View)

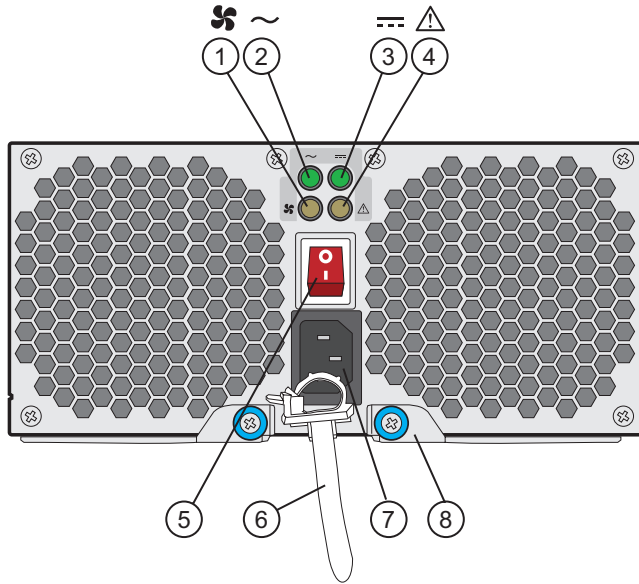


Figure Legend

-
- 1 Fan fault LED
 - 2 AC power status LED
 - 3 DC power status LED
 - 4 Power fault LED
 - 5 Power supply on/off switch
 - 6 Power cord tie strap
 - 7 Power plug receptacle
 - 8 Right ejection arm and captive screw latch
-

The J4400 Power Supply serial number is located on the top of the module.

Removing and Replacing a Power Supply

This section describes how to remove and replace a power supply.



Caution – Potential loss of data access - Never remove a power supply unless the Power fault LED or Fan fault LED is amber (see [FIGURE 2](#)).



Caution – Electrical Shock Hazard - The power supplies in this equipment can produce high energy hazards. Only instructed personnel with authorized access to this equipment should remove and replace modules in the system.

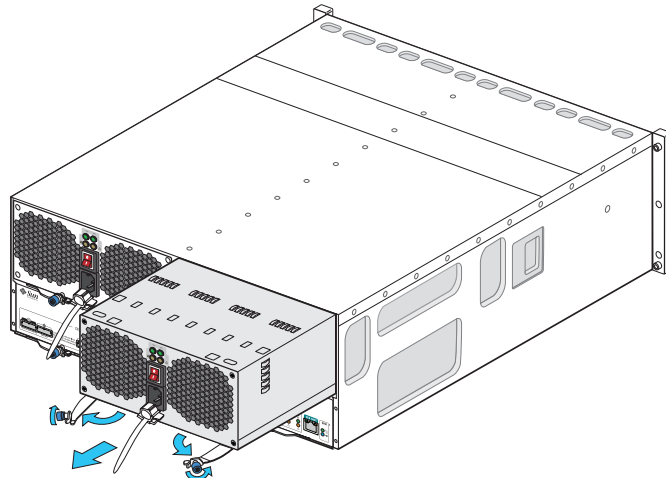
Note – The power supplies are hot-swappable and you do not need to disconnect power from the system or other components in order to replace one of these parts.

▼ Removing a Power Supply

1. Locate the respective disk tray and failed power supply. The Power fault or Fan fault LED is amber (see [FIGURE 2](#)).
2. Ensure the power supply on/off switch is in the “O” position.
3. Disconnect the power cord tie strap (see [FIGURE 2](#)) from the power cord.
4. Unplug the power cord from the power supply.
5. Using your thumb and forefinger, unscrew both ejection arm captive screws until loose and swing the ejection arms out until they are fully open (see [FIGURE 3](#)).

Note – You might need a #2 Phillips screwdriver to loosen or tighten captive screws on the ejection arms.

FIGURE 3 Removing a Power Supply



6. Pull the power supply out of the tray.

Caution – Be careful to not damage the circuit board connector extending from the back of the power supply.



Caution – For products with multiple power cords, all power cords must be disconnected to completely remove power from the system.

▼ Replacing a Power Supply



Caution – Follow all ESD precautions (see [“ESD Precautions” on page 1](#)) and use care when handling either the new or failed power supply.

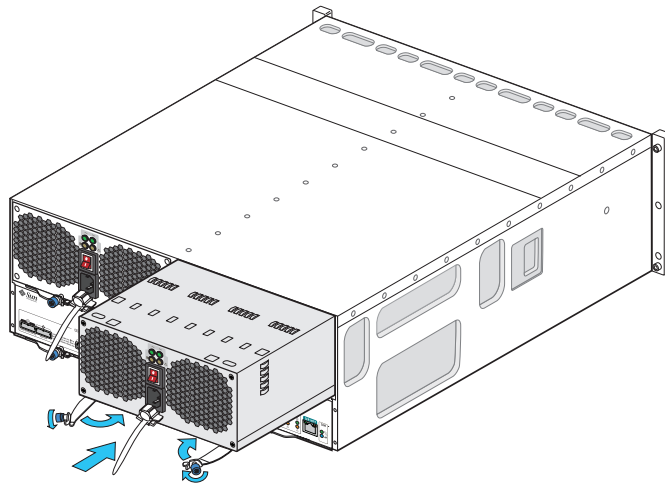
1. Unpack the new power supply and do one of the following:

- Place the failed power supply in the packing materials so that you can return it to Sun for proper disposal.
- Properly dispose of the failed power supply.

Caution – Be careful to not damage the circuit board connector extending from the back of the power supply.

2. Unscrew both power supply ejection arm captive screws and swing the ejection arms out until they are fully open.
3. Slide the new power supply into the tray slot until it contacts the chassis backplane and the ejection arms begin to swing closed.
4. Push the ejection arms closed fully and secure both captive screws to seat and secure the power supply in the tray.

FIGURE 4 Replacing a Power Supply



5. Ensure the power supply on/off switch is in the “O” position.
6. Plug the power cord into the new power supply and attach the power cord tie strap to the power cord.

▼ Verify and Complete the Power Supply Replacement

- Place the power supply on/off switch to the “I” position and verify the Power status LED is steady green and the Power fault LED and the Fan fault LED are off (see [FIGURE 2](#)).

Related Documentation

For additional information about the Sun Storage J4400 Array, see the following product documentation:

Application	Title	Part Number
Regulatory and safety information	<i>Sun Storage Regulatory and Safety Compliance Manual</i>	96272, Revision A
Multilanguage safety information	<i>Important Safety Information for Sun Hardware Systems</i>	816-7190- <i>nn</i>
Site planning information	<i>Sun Storage J4200/J4400 Array Site Preparation Guide</i>	820-3219- <i>nn</i>
Installation at a glance	<i>Sun Storage J4200 Array Setup Poster</i>	820-3221- <i>nn</i>
Installation at a glance	<i>Sun Storage J4400 Array Setup Poster</i>	820-4691- <i>nn</i>
Complete details of the hardware components, rail and tray installation, and cabling.	<i>Sun Storage J4200/J4400 Array Hardware Installation Guide.</i>	820-3218- <i>nn</i>
Late-breaking information not included in the information set	<i>Sun Storage J4200/J4400 Array Release Notes</i>	820-3222- <i>nn</i>
Installation and use of the management software using a GUI	<i>Sun Storage Common Array Manager User Guide for the J4000 Array Family</i>	820-3765- <i>nn</i>
Installation and use of the management software using a CLI	<i>Sun Storage Common Array Manager CLI Guide for the J4000 Array Family</i>	820-4419- <i>nn</i>
General operation and troubleshooting	<i>Sun Storage J4200/J4400 Array Overview</i>	820-3223- <i>nn</i>
Disk drive replacement procedures	<i>Sun Storage J4200/J4400 Array Disk Drive Replacement Guide</i>	820-3225- <i>nn</i>
SIM board replacement procedures	<i>Sun Storage J4200 Array SIM Board Replacement Guide</i>	820-3226- <i>nn</i>
SIM board replacement procedures	<i>Sun Storage J4400 Array SIM Board Replacement Guide</i>	820-4600- <i>nn</i>
Power supply replacement procedures	<i>Sun Storage J4200 Array Power Supply Replacement Guide</i>	820-3227- <i>nn</i>

Application	Title	Part Number
Fan replacement procedures	<i>Sun Storage J4200 Array Fan Replacement Guide</i>	820-3229- <i>nn</i>
Power supply and fan replacement procedures	<i>Sun Storage J4400 Array Power Supply/Fan Replacement Guide</i>	820-3228- <i>nn</i>
Chassis replacement procedures	<i>Sun Storage J4200 Chassis Replacement Guide</i>	820-4413- <i>nn</i>
Chassis replacement procedures	<i>Sun Storage J4400 Chassis Replacement Guide</i>	820-4601- <i>nn</i>
Rail kit installation procedures	<i>Sun Storage J4200/J4400 Array Rail Kit Installation Guide</i>	820-3764- <i>nn</i>

Service Contact Information

If you need help installing or using this product in the United States, call 1-800-USA-4SUN(872-4786), or go to:

<http://www.sun.com/service/contacting/index.xml>