



# Sun Rack Fan Door Installation and Service

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Sun Microsystems, Inc.  
www.sun.com

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# Preface

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This document describes installation and service of the Sun Rack Fan Door.

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# Sun Rack Fan Door Installation

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## Installing the Fan Door

1. Remove the existing rear door (FIGURE 1-1).

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**Caution** – The weight of the fan door is approximately 110 lbs and requires 2 to 3 able-bodied persons to remove it and install it. The fans have finger guards but care must be exercised when working around spinning fans. Keep fingers and other small objects away from the spinning blades. If the door is to be opened for maintenance or service of items within the cabinet, the fans should be powered off.

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- a. Disconnect grounding strap.
  - b. Lift door up off of the hinges.
2. Lift the new Fan Door and hang it on the hinges (FIGURE 1-2).
  3. Connect the grounding strap.
  4. Install the Chimmy.
    - a. Place the top of the chimney (cross rod) into the slotted tabs on the top of the Fan Door (FIGURE 1-3).
    - b. Install eight (four per side of chimney) low profile socket screws on the outside of the Fan Door using a 3mm allen wrench.
    - c. Install three low profile screws on the inside of the door's bottom edge (FIGURE 1-3) using a 3mm allen wrench.
  5. Connect both power cords (FIGURE 1-2) simultaneously to insure proper fan spin up.

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**Caution** – There must be at least 200 lbs of products in the lower portion of the rack to prevent any tipping or instability with the fan door.

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6. Lift and rotate the door handle to close the door.

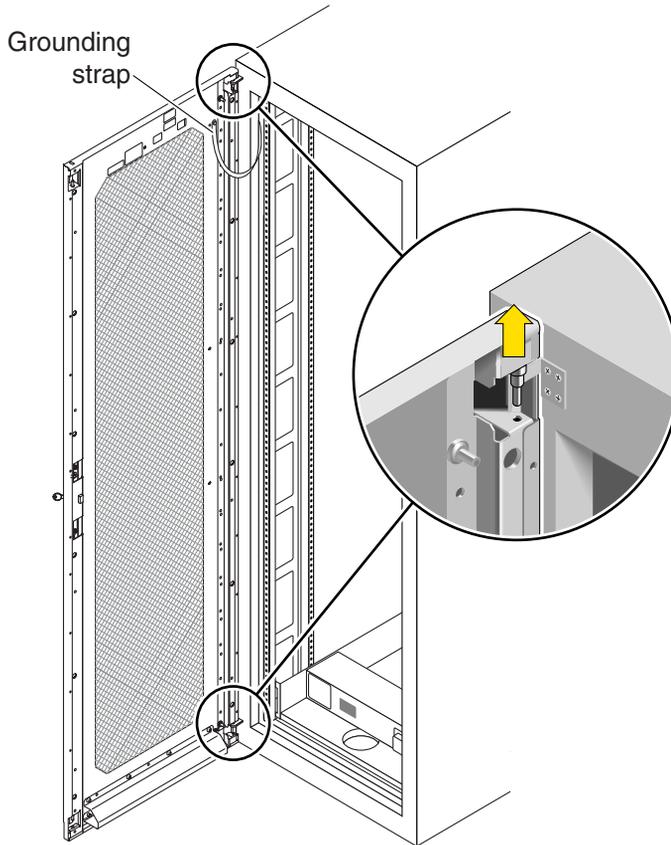
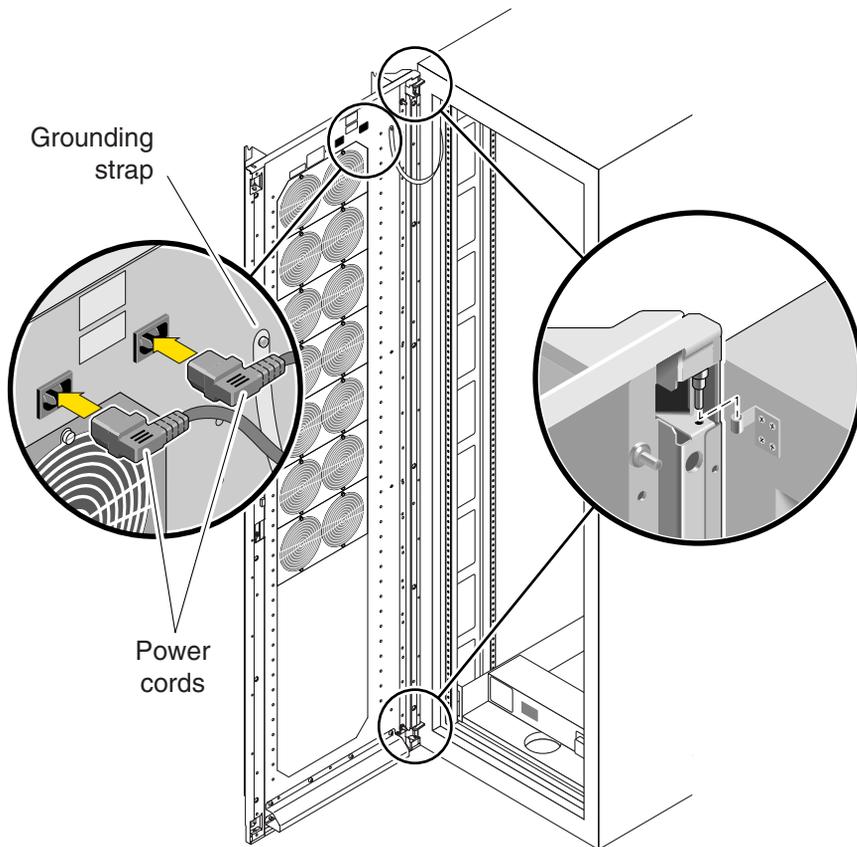
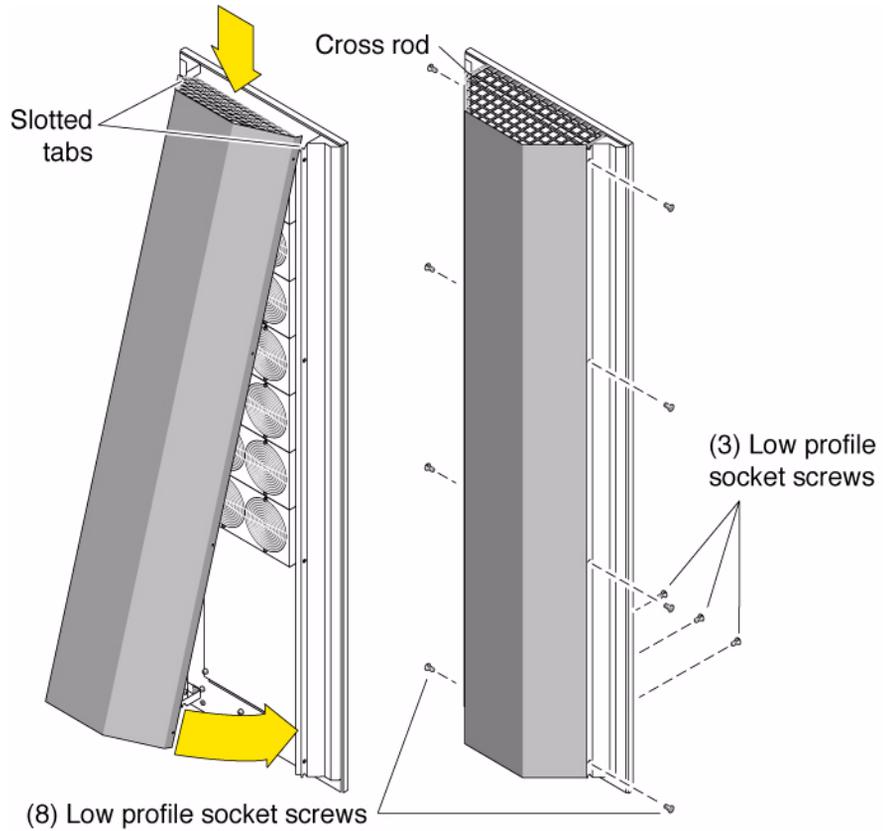


FIGURE 1-1 Removing the Existing Door



**FIGURE 1-2** Installing the Fan Door



**FIGURE 1-3** Installing the Chimmy

## Sun Rack Fan Door Service

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Check to see that the fans are spinning. If not replace the faulty fan tray (s). You must remove the chimney from the Fan Door to replace the fan trays.

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### Removing the Chimney

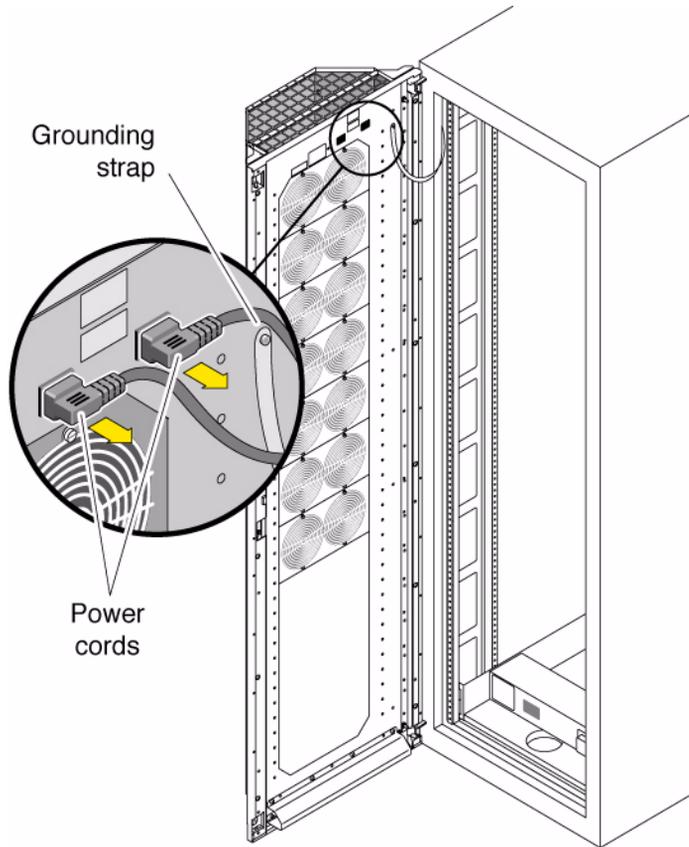
1. **Lift and rotate the handle and open the Fan Door.**
2. **Disconnect the power cords from the Fan Door (FIGURE 2-1).**
3. **Remove the eight (four per side of Chimney) low profile socket screws (FIGURE 2-2) using a 3mm allen wrench.**
4. **Remove the three low profile screws from the inside of the door's bottom edge using a 3mm allen wrench.**

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**Note** – These screws prevent unauthorized chimney removal from the outside. This is a rack security measure.

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5. **Rotate the bottom of Chimney out from the door assembly.**
6. **Lift the chimney up and then away from door assembly.**



**FIGURE 2-1** Removing the Power Cords from the Fan Door

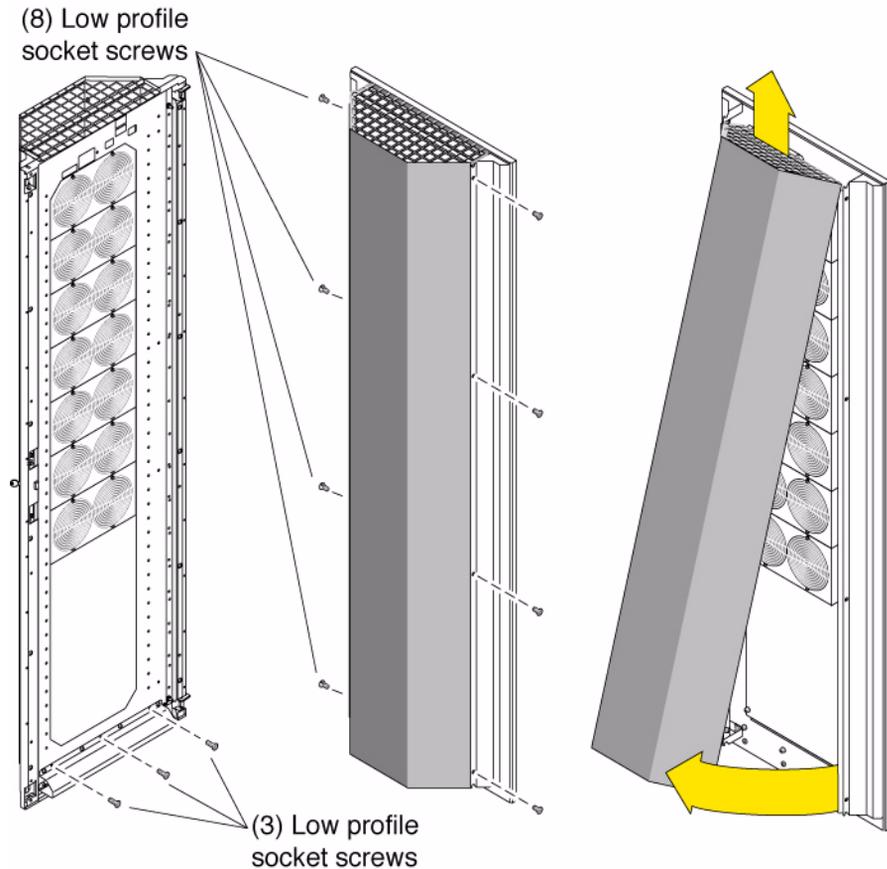
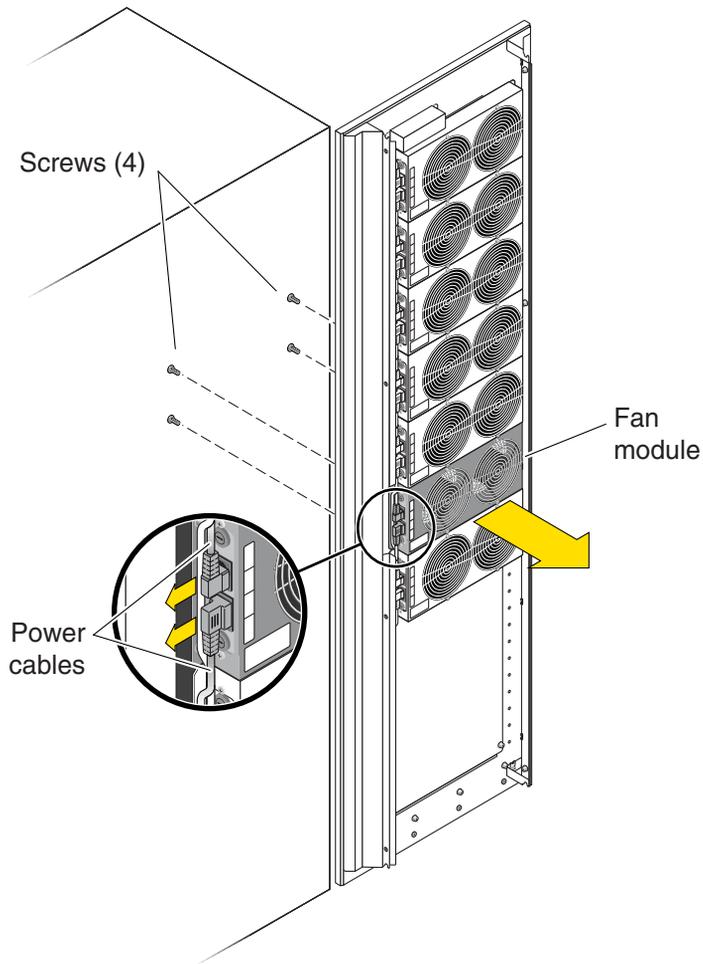


FIGURE 2-2 Removing the Chimney

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## Removing a Fan Tray

1. Lift and rotate the handle on the Fan Door and open the door.
2. From the inside of the Fan Door (FIGURE 2-3), remove four screws (two on each side of the fan module) using a 3mm allen wrench.



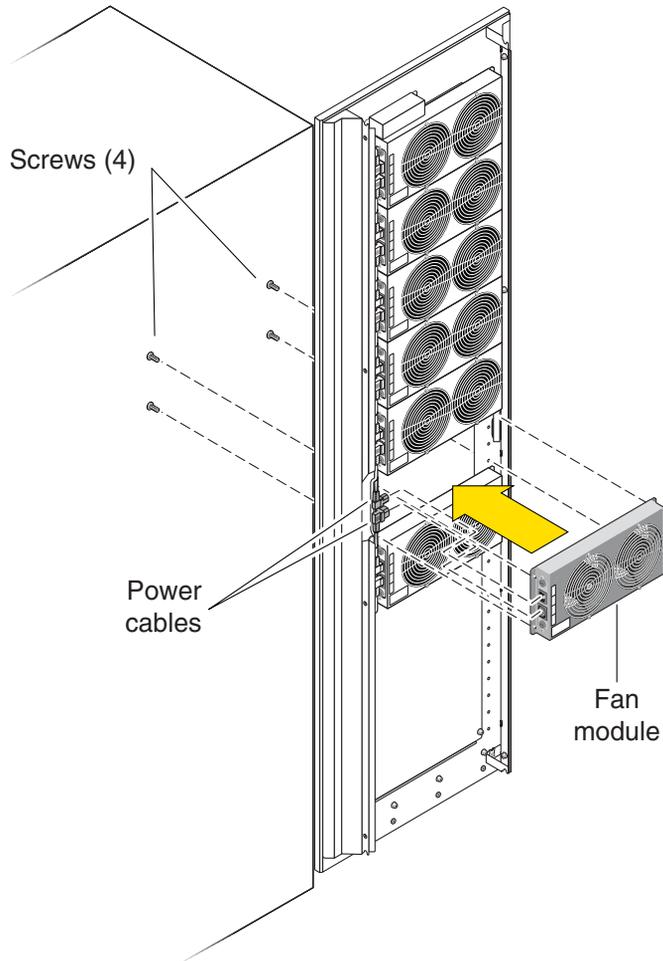
**FIGURE 2-3** Removing the Fan Trays

- 3. Holding the Fan Tray, move to the outside of the door and disconnect the two power cables.**
- 4. Remove the Fan Tray.**

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# Replacing a Fan Tray

1. From the outside of the door, holding the Fan Tray in place, connect the two power cables (FIGURE 2-4).



**FIGURE 2-4** Replacing the Fan Trays

2. Holding the fan module in place, move to the inside of the door and insert four screws (two on each side of the Fan Tray) using a 3mm allen wrench.

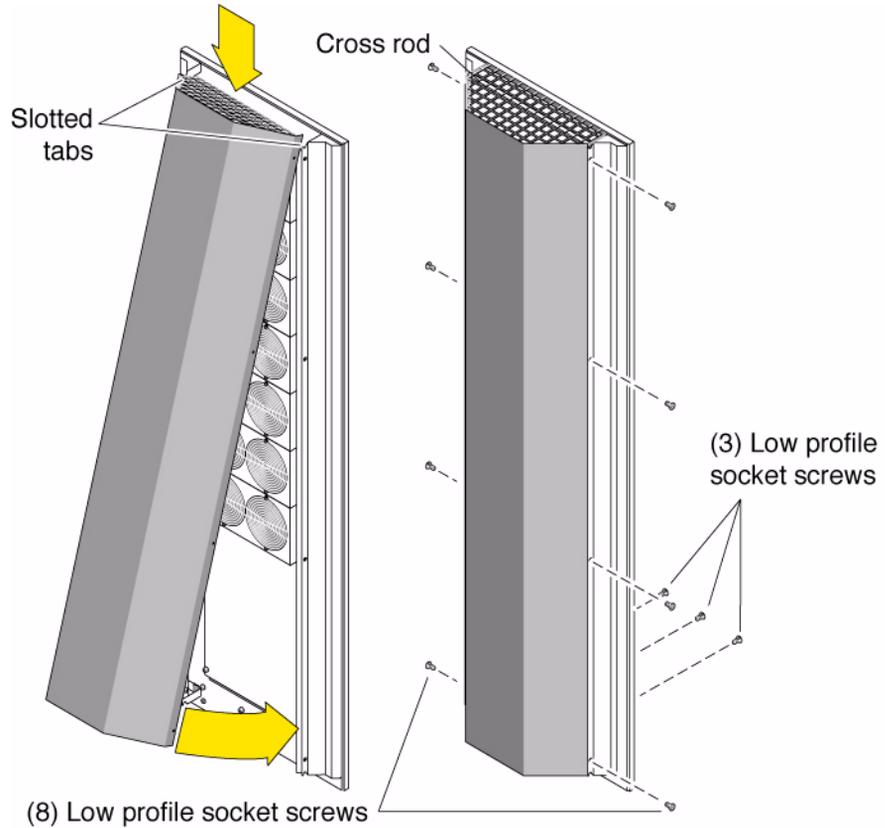
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**Note** – These two screws prevent unauthorized chimney removal from the outside. This is a rack security measure.

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## Replacing the Chimney

1. Place the top of chimney (cross rod) into the slotted tabs on the top of the Fan Door (FIGURE 2-5) and rotate the bottom of chimney in towards the Fan Door.
2. Reinstall the chimney.
3. Install eight (four per side of chimney) low profile socket screws on the outside of the Fan Door using a 3mm allen wrench.
4. Install three low profile screws on the inside of the door's bottom edge (FIGURE 2-5) using a 3mm allen wrench.
5. Connect both power cords to the Fan Door simultaneously to insure proper fan spin up.
6. Verify that the fans in all of the Fan Trays are spinning.



**FIGURE 2-5** Replacing the Chimney

