



Chassis Fan Tray Removal and Replacement Guide

For the Switch 4007R 8-Slot Chassis

This guide describes how to remove and install a fan tray (Model Number 3CB9EF) for the Switch 4007R 8-slot chassis.



WARNING: *The Switch 4007R fan tray must be installed and removed only by trained service personnel.*



You can install a new fan tray in your Switch 4007R chassis while the power is on (which is referred to as hot swapping).

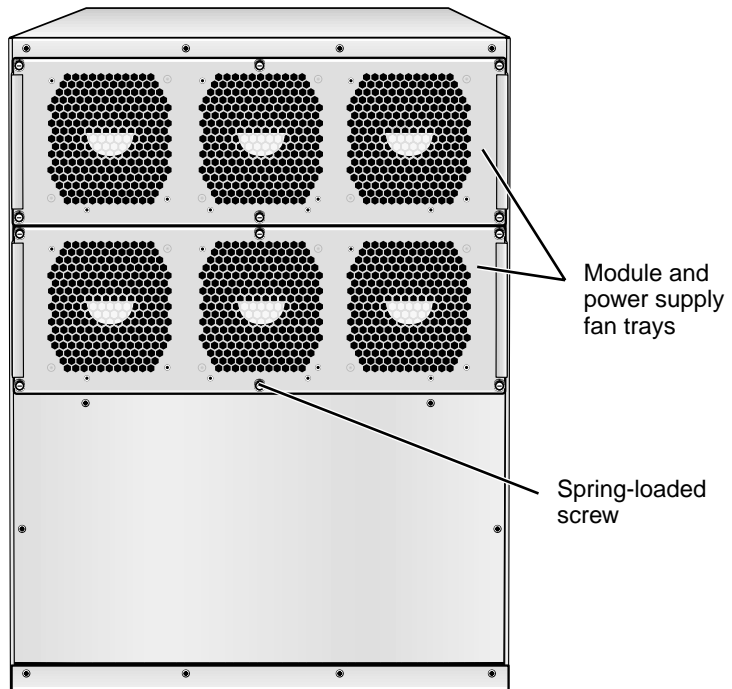
Fan Tray Description

The Switch 4007R chassis and its modules are cooled by fan trays. The 8-slot chassis contains two fan trays, each of which contains three fans (Figure 1). Four fans cool the switch fabric modules, interface modules, and management modules and the two fans cool the power supply bay area.

<http://www.3com.com/>

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Figure 1 Location of FanTrays in the Rear of the Switch 4007R 8-slot Chassis



There are no user-serviceable parts on the fan trays. If these components fail, remove them as described in this document and return the components to your supplier. Keep replacement fan trays at your site so that they are available if needed.

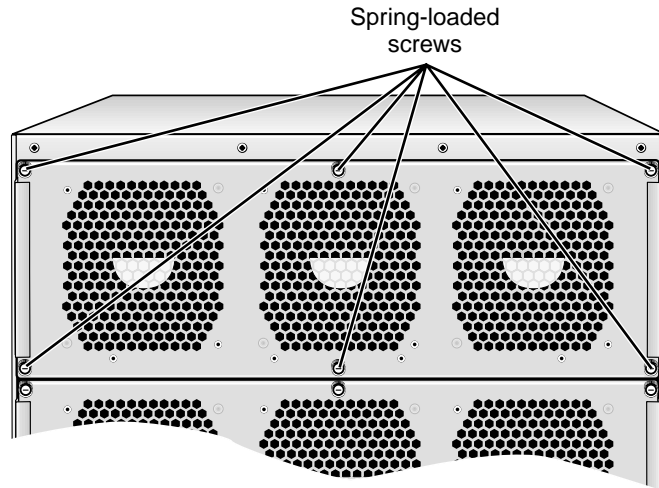


To be able to remove and replace a fan tray, and for proper ventilation, keep the rear of the chassis at least 91.4 cm (36 in.) from any obstruction, such as a wall or another rack.

Removing a Fan Tray To remove a fan tray from the Switch 4007R 8-slot chassis, follow these steps:

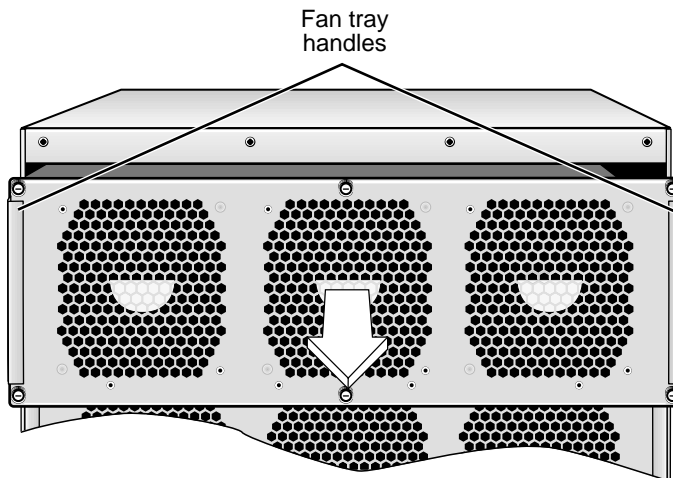
- 1 Using a flat-blade screwdriver, loosen the six spring-loaded screws that attach the fan tray to the rear of the chassis (Figure 2).

Figure 2 Location of the Six Fan Tray Spring-loaded Screws



- 2 Grasp the two handles on the fan tray, and firmly pull the fan tray toward you (Figure 3).

Figure 3 Removing the Fan Tray Using the Handles



CAUTION: Before you completely remove the fan tray, wait until all the fans in the fan tray stop rotating.

- 3 Carefully pull the fan tray straight out from the chassis, making sure that you do not damage the connector and guide pin on the rear of the fan tray (Figure 5).

Installing a Fan Tray Follow the instructions in this section to unpack and install a new fan tray.

Unpacking

To unpack a fan tray:

- 1 Open the shipping box and remove the fan tray.
- 2 Inspect the fan tray for damage. If the fan tray, its connector, or its guide pin (Figure 4) appear to be damaged, repack the fan tray in the shipping box and contact your local supplier.



All shipping boxes are reusable. After you remove all contents, replace the packing materials and store the box for future use.

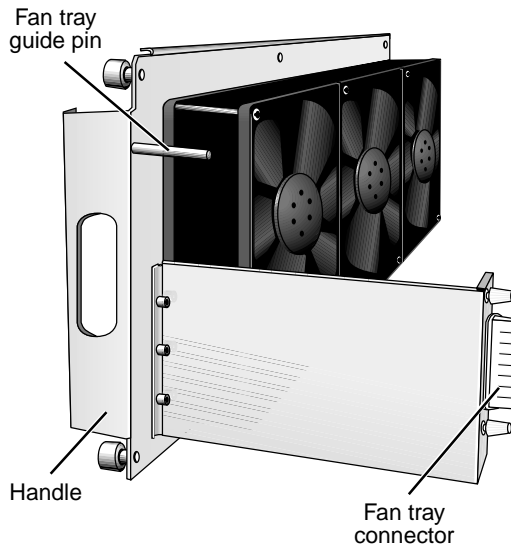
Installing

You can install a new fan tray in your Switch 4007R chassis while the power is on (which is referred to as *hot swapping*).

To install a new fan tray:

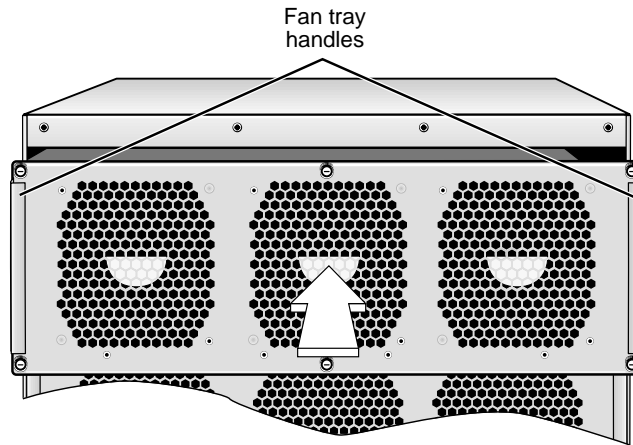
- 1 Grasp the two handles on the fan tray and then face the rear of the chassis.
- 2 Locate the guide pin and connector on the fan tray (Figure 4).

Figure 4 Fan Tray Connector and Guide Pin



- 3 Slide the fan tray into the chassis (Figure 5).

Figure 5 Installing the Fan Tray into the Chassis Using the Handles



- 4 Align the fan tray connector and the backplane connector.
- 5 Use the guide pin on the fan tray and the guide pin holes on the backplane of the chassis and gently push the fan tray inward until the fan tray connector and backplane connector engage.
You feel a slight resistance as the connectors engage.



CAUTION: *If the resistance is too great, the fan tray connector and backplane connector may not be aligned properly. Do not force the fan tray inward or you can damage the connectors. If necessary, remove and reinsert the fan tray, ensuring that the connectors are properly aligned.*

- 6 Verify that the fan tray is flush with the back of the chassis. If the fan tray and the chassis are not aligned, remove the fan tray and reseal it.
- 7 Using a flat-blade screwdriver, tighten the spring-loaded screws to secure the fan tray to the chassis (Figure 2).



The fans begin rotating the moment that you power on the chassis or insert a fan tray into a powered-on chassis.

- 8 Visually inspect all installed fans to verify that each is turning without interruption. If a fan is not running, shut the power off and remove and reinsert the fan tray.

Operating Guidelines Follow these operating guidelines for the fan trays for the Switch 4007R 8-slot chassis.



CAUTION: For the module bay area and the power supply bay area, if a fan in one fan tray fails, a trap message alerts you to replace the fan tray within 48 hours. For the power supply bay area, if a fan in one fan tray fails and the temperature is 45 °C (113 °F) or greater, a trap message alerts you to replace the fan tray immediately. The Switch 4007R sends a trap message and can continue to run if one fan fails in one fan tray. However, if a second or third fan fails, in that same fan tray, no trap message is generated.

Locating 3Com User Documentation

The *Switch 4007R Getting Started Guide* is available in Adobe Acrobat Portable Document Format (PDF) format on the 3Com Documentation CD-ROM.

The CD-ROM also contains:

- Additional Switch 4007R documentation in Adobe Acrobat format
- Adobe Acrobat Reader and Reader installation instructions

If you have difficulty installing the Acrobat Reader, use an Internet browser to download the Reader from the Adobe home page at <http://www.Adobe.com>

You can view additional 3Com technical documentation on the 3Com home page at <http://www.3com.com>

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Fan Tray (Model Number 3CB9EF) for the Switch 4007R 8-slot Chassis

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Canadian Emissions Requirements

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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This equipment was tested and found to conform to the Council Directive 89/336/EEC for electromagnetic compatibility. Conformity with this Directive is based upon compliance with the following harmonized standards:

EN 55022 Limits and Methods of Measurement of Radio Interference

EN 50082-1 Electromagnetic Compatibility Generic Immunity Standard:
Residential, Commercial, and Light Industry

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EN 60950 Safety of Information Technology Equipment

**GENERAL APPROVAL
STATEMENT FOR UK**

UK General Approval Statement

This equipment is manufactured to the international Safety Standard EN60950 and is approved in the UK under the General Approval Number NS/G/12345/J/100003 for indirect connection to the public telecommunication network.

**AUSTRALIAN EMC
FRAMEWORKS STATEMENT**

Australian EMC Frameworks
Compliance

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