53-1001790-01
January 31, 2010

Fan Assembly

Replacement Procedure

Supporting the PowerConnect B-7500, 7600, and 8000

53-1001790-01

Notes, Cautions, and Warnings

NOTE
A NOTE indicates important information that helps you make better use of your computer.

CAUTION
See the safety and regulatory information that shipped with your system. For additional regulatory information, see the Regulatory Compliance Homepage on www.dell.com at the following location: www.dell.com/regulatory_compliance.

CAUTION
A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.

DANGER
A DANGER indicates a potential for property damage, personal injury, or death.

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Regulatory Model Codes: Brocade DCX-4S, Brocade DCX

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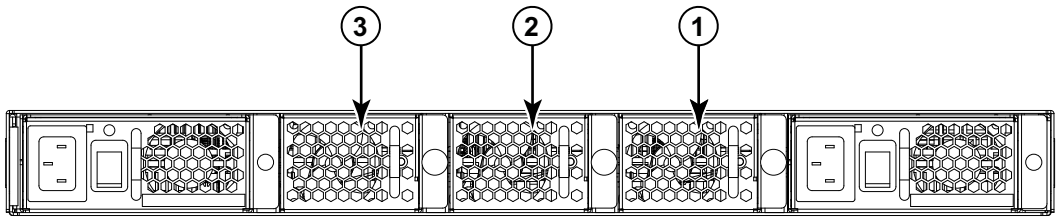
Fan assembly replacement

This group of switches has three fan assemblies as displayed in Figure 1.



1 Fan Assembly 1 2 Fan Assembly 2

3 Fan Assembly 3

FIGURE 1 **Fan assemblies on the nonport side**

CAUTION

Disassembling any part of the fan assembly voids the part warranty and regulatory certifications. There are no user-serviceable parts inside the fan assembly.

Because the cooling system relies on pressurized air, do not leave any of the fan assembly slots empty longer than two minutes while the switch is operating. If a fan assembly fails, leave it in the switch until it can be replaced.

Maintain all three fan assemblies in operational condition to provide redundancy.

Table 1 describes the fan status LED colors, behaviors, and actions required, if any.

TABLE 1 **Fan status LED behavior, description, and required actions**

LED color and behavior	Description	Action required
No light.	Fan assembly is not receiving power.	Verify that the fan FRU is seated correctly.
Steady green.	Fan assembly is operating normally.	No action required.
Steady amber (for more than five seconds).	Fan fault for one of the following reasons: • one or more of the fan(s) in the fan assembly has failed • the fan FRU was disabled by the user	Verify that the fan FRU is enabled. If the fan FRU is enabled and the FRU is faulty it should be replaced.

Time required

Replacing a fan assembly in the switch should required less than two minutes to complete.

Items required

The following items are required to replace a fan assembly in the switch:

- New single height fan FRU assembly
- Phillips-head screwdriver #1.

Replacing a switch fan assembly

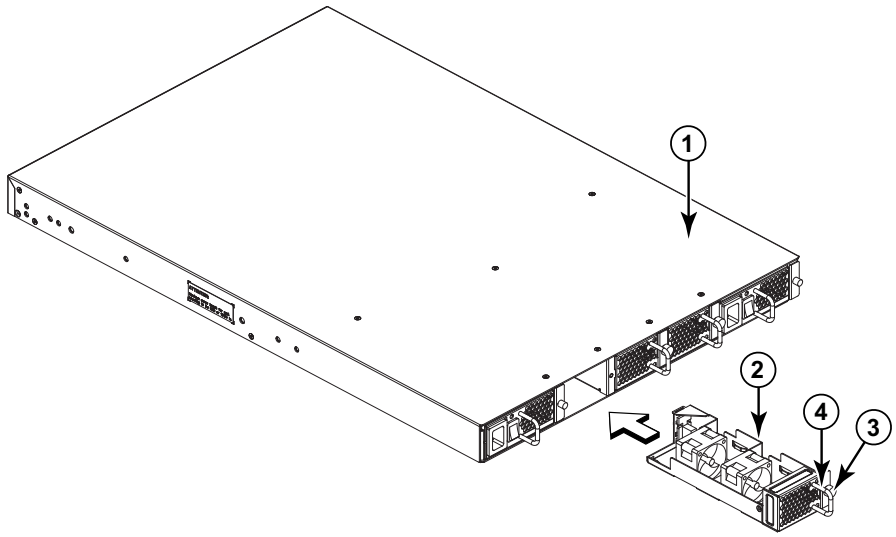
To replace a fan assembly in the switch.

1. With a Phillips-head screwdriver, unscrew the captive screw on the fan assembly.
2. Pull the handle out, away from the chassis.
3. Install the new fan assembly in the chassis:
   a. Orient the new fan assembly as shown in Figure 2, with the captive screw on the right.
   b. Gently push the fan assembly into the chassis until it is firmly seated.

CAUTION

Do not force the installation. If the fan assembly does not slide in easily, ensure that it is correctly oriented before continuing.

   c. Using the Phillips-head screwdriver, secure the fan assembly to the chassis by tightening in the captive screw.
4. Verify that the fan status LED is lit (steady green) to indicate normal operation (see Table 1).
5. Optionally, if using the Command Line Interface (CLI), display the fan status using the **fanShow** command from the command line. The fan status can be also be viewed using the Web Tools application. See Figure 1 for the locations of fan assembly 1, fan assembly 2, and fan assembly 3.



1	Switch	3	Captive Screw
2	Fan Assembly	4	Handle

FIGURE 2 **Inserting the fan assembly in the switch**