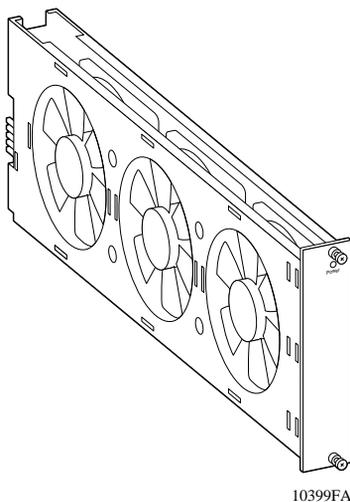# Installing a Fan Tray in an 8000 Series Switch

This document describes how to replace a fan tray in a 8000 Series switch.

Replacing the fan tray in a 8003 Chassis

The 8003 Chassis has a single fan tray that is installed on the right side of the chassis (Figure 1). The fan tray contains three high-capacity, multiple-speed fans and a control/monitor circuit board.

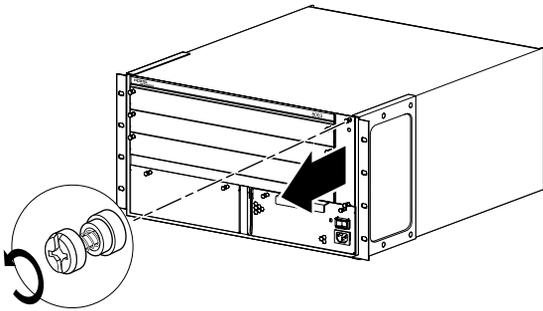**Figure 1**   Fan tray for the 8003 Chassis

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If one of the fans in the fan tray fails, the LED lights amber. If a fan fails, replace the fan tray as quickly as possible to maintain high-availability operation. Failure to replace the fan tray could cause the chassis to overheat.

You can replace the fan tray in the 8003 Chassis with the power on or off.

To replace the fan tray:

1   Loosen the 2 retaining screws that fasten the fan tray to the chassis (Figure 2).

Figure 2   Removing the fan tray from a 8003 Chassis

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2   Wait 10 seconds for the fans to stop turning, and then pull the fan tray out of the chassis (Figure 2).
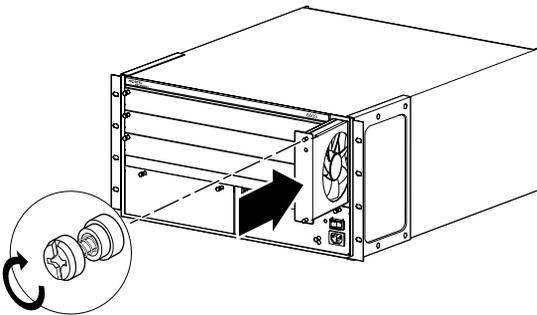
> **Caution:** Grasp the fan tray at the middle of the front panel, and be careful to keep your fingers out of the fan blades.

3   Slide the new fan tray into the chassis until the connectors at the rear of the fan tray engage (Figure 3).

If the chassis is on, the fans start turning when the fan tray connectors fully engage.

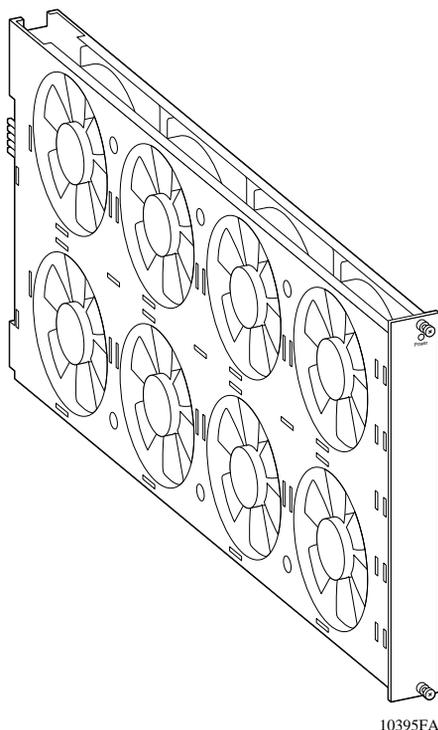**Figure 3**   Installing the fan tray in a 8003 Chassis

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4   Tighten the captive screws to fasten the fan tray to the chassis (Figure 3).

5   With the chassis power on, verify that the green status LED is lit (see Figure 1).

Replacing a fan tray in a 8006 or 8010 Chassis

Figure 4 illustrates the fan tray used in both the 8006 Chassis and in the 8010 Chassis. The fan tray contains eight high-capacity, multiple-speed fans and a control/monitor circuit board.

The 8006 Chassis has a single fan tray that is installed on the right side of the chassis. The 8010 Chassis has two fan trays installed on the right side of the chassis.

Figure 4   Fan tray for the 8006 and 8010 Chassis
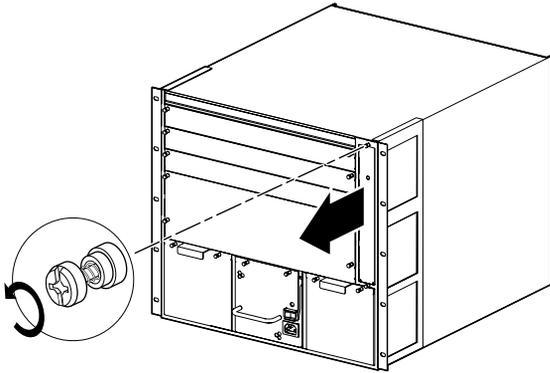

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If one of the fans in a fan tray fails, the LED lights amber. If a fan fails, replace the fan tray as quickly as possible to maintain high-availability operation. Failure to replace the fan tray could cause the chassis to overheat.

You can replace a fan tray in the 8006 Chassis or in the 8010 Chassis with the power on or off.

To replace a fan tray:

1 Loosen the 2 retaining screws that fasten the fan tray to the chassis (Figure 5).

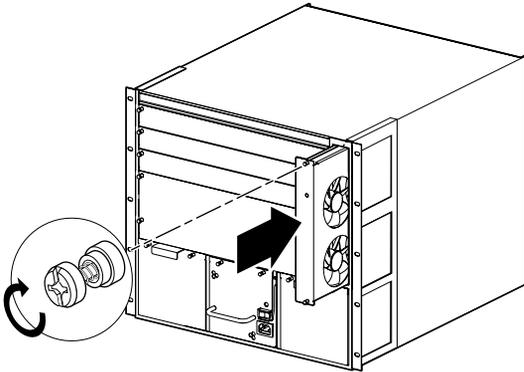**Figure 5**   Removing a fan tray from a 8006 or 8010 Chassis

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2 Wait 10 seconds for the fans to stop turning, and then pull the fan tray out of the chassis (Figure 5).

> **Caution:** Grasp the fan tray at the middle of the front panel, and be careful to keep your fingers out of the fan blades.

3 Slide the new fan tray into the chassis until the connectors at the rear of the fan tray engage (Figure 6).

If the chassis is on, the fans start turning when the fan tray connectors fully engage.
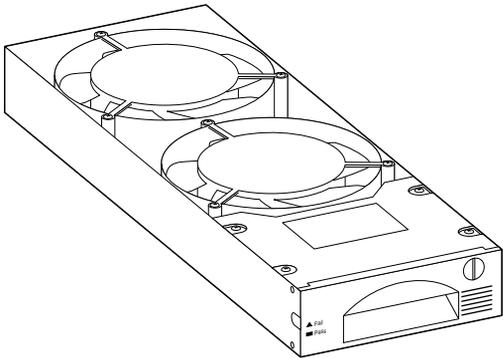
Figure 6 Installing a fan tray in a 8006 or 8010 Chassis

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4 Tighten the captive screws to fasten the fan tray to the chassis (Figure 6).

5 With the chassis power on, verify that the green status LED is lit (see Figure 4).

Replacing a fan tray in a 8010co Chassis

The 8010co Chassis has two fan trays that are installed at the top of the chassis (Figure 7). Each fan tray contains two high-capacity, multiple-speed fans and a control/monitor circuit board.

Figure 7 Fan tray for the 8010co Chassis

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If one of the fans in a fan tray fails, the Fail LED lights red. If a fan fails, replace the fan tray as quickly as possible to maintain high-availability operation. Failure to replace the fan tray could cause the chassis to overheat.

Table 1 describes the fan tray LEDs on the 8010co Chassis.

Table 1   Fan tray LEDs on the 8010co Chassis

Label	Color/State	Meaning
Fail	Red/Steady	One of the fans has failed.
	Off	The fan tray is functioning normally.
Pass	Green/Steady	The fan tray is functioning normally.
	Off	The fan tray is not receiving power.

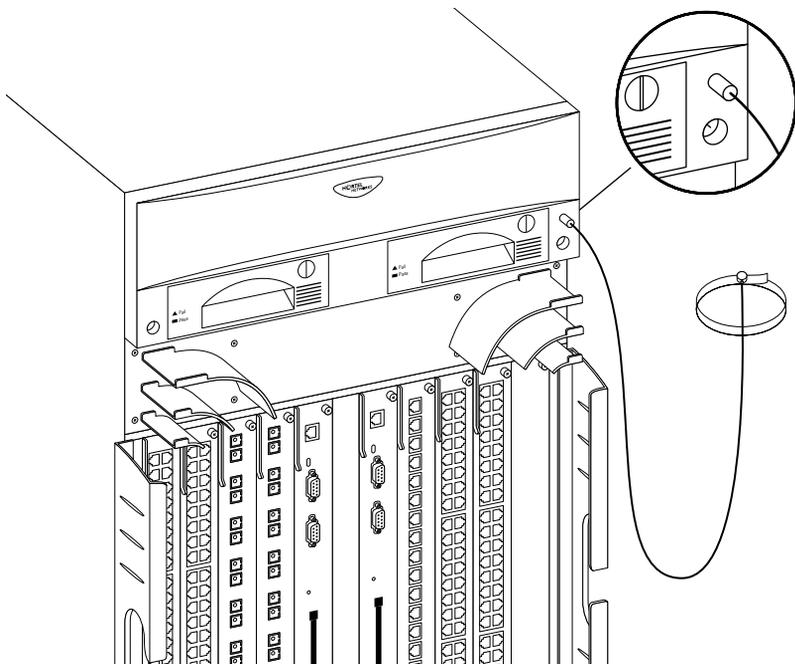You can replace a fan tray in the 8010co Chassis with the power on or off.

To replace a fan tray:

1   Attach the antistatic wrist strap that was shipped with the chassis.

   a   Locate the antistatic wrist strap in the shipping container.

   b   Verify that the cable is attached to the wrist strap.

   c   Place the strap around your wrist.

   d   Adjust the strap to ensure that the metal buckle inside the strap touches your skin.

   e   Insert the plug into the ground port on the front of the chassis (Figure 8).

Caution: Electrostatic discharge can damage hardware. Follow the procedure in this section to protect your equipment from damage.
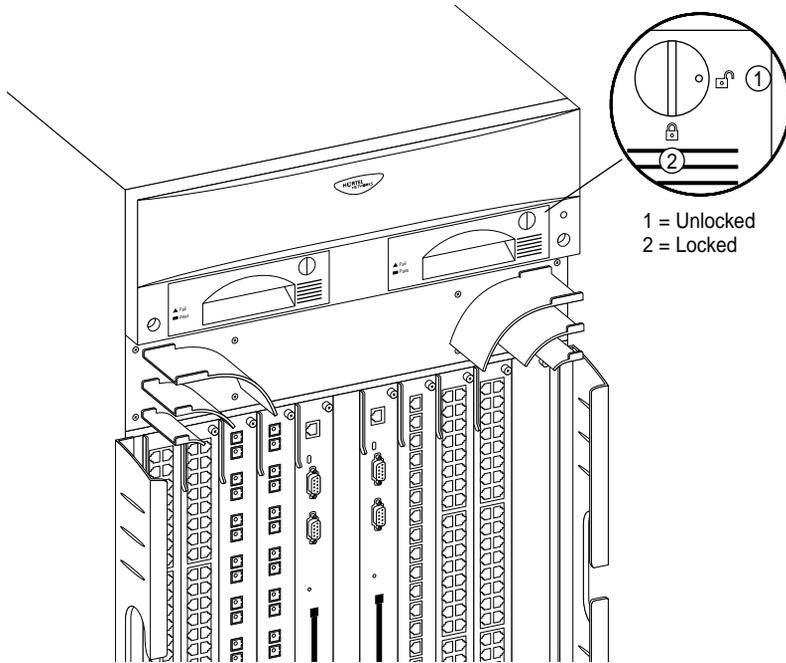
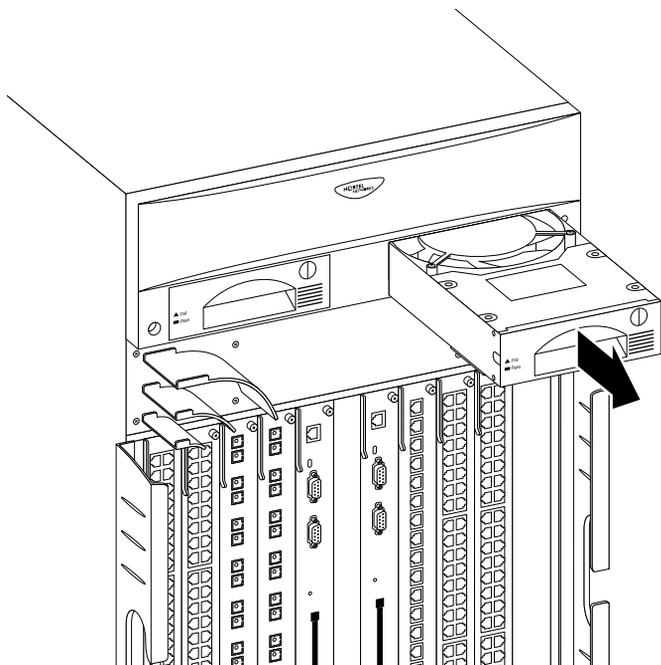**Figure 8**   Connecting the wrist strap jack to the front ground port

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2   Turn the fan tray lock to the unlocked position (Figure 9).

Figure 9   Unlocking a fan tray on the 8010co Chassis

1 = Unlocked
2 = Locked

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3   Press up on the inside of the handle to disengage it from the chassis back panel, then pull the fan tray part way out of the chassis.

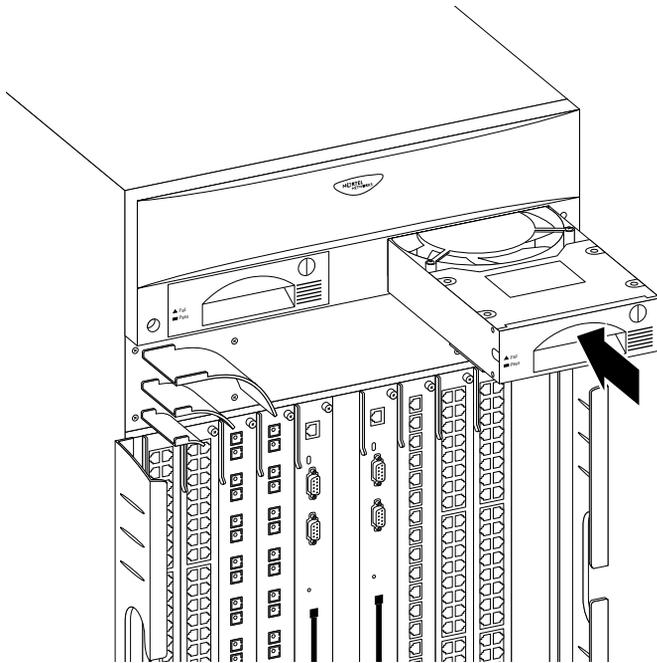**4**   Wait 10 seconds for the fans to stop turning, and then pull the fan tray out of the chassis (Figure 10).

Figure 10   Removing a fan tray from a 8010co Chassis

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5   Slide the new fan tray into the chassis until the connectors at the rear of the fan tray engage (Figure 11).

If the chassis is on, the fans start turning when the fan tray connectors fully engage.

Figure 11   Installing a fan tray in a 8010co Chassis

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6   Turn the fan tray lock to the locked position (see).