



Replacing a Power-Fan CRU in the 6580/6780 Controller Module

May 2011

51354-00, Rev. A



Revision History

Version and Date	Description of Changes
51354-00, Rev. A, May 2011	Initial release of the document.

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Document Number: 51354-00, Rev. A
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Replacing a Power-Fan CRU in the 6580/6780 Controller Module

Use the following procedure to replace a power-fan CRU in the 6580/6780 controller module. Before you start to replace the power-fan CRU, gather antistatic protection and a replacement power-fan CRU.

You can determine whether you have a failed power-fan CRU in two ways:

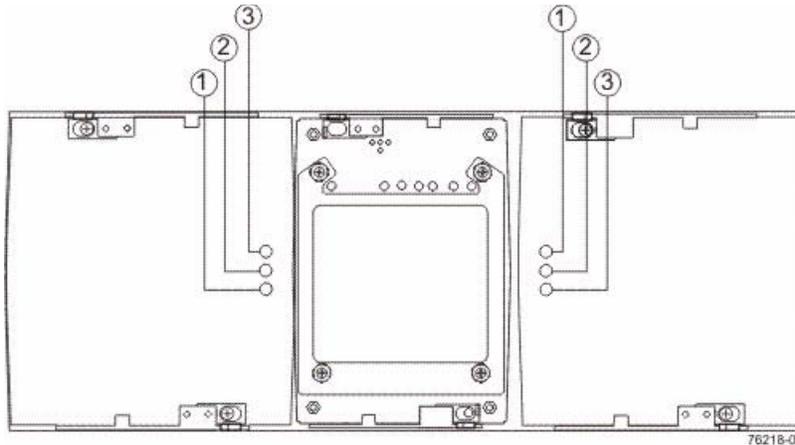
- The Recovery Guru directs you to replace a failed power-fan CRU.
- You locate the failed power-fan CRU by checking the Power-Fan Service Action Required LED on the power-fan CRU.

ATTENTION Possible hardware damage – To prevent electrostatic discharge damage to the module, use proper antistatic protection when handling module components.

ATTENTION Potential damage to a component – To prevent damage from overheating, replace a failed fan within 15 minutes of removal. If replacing the fan will take longer than 15 minutes, stop all I/O activity to the controller module, and turn off the power until you complete the replacement procedure.

- 1 If possible, use the storage management software to create, save, and print a new storage array profile.
- 2 Did the Recovery Guru direct you to replace a failed power-fan CRU?
 - **Yes** – Go to step 3.
 - **No** – Run the Recovery Guru to identify the failed power-fan CRU, and go to step 3.
- 3 Put on antistatic protection.
- 4 Unpack the new power-fan CRU.
 - a Set the new power-fan CRU on a flat, static-free surface near the controller module.
 - b Save all of the packing materials in case you need to return the power-fan CRU.
- 5 Remove the front cover of the controller module by grasping the sides and pulling the cover toward you.

- 6 Check the Power-Fan Service Action Required LED to locate the failed power-fan CRU. If a fault is detected, the amber Power-Fan Service Action Required LED is on.

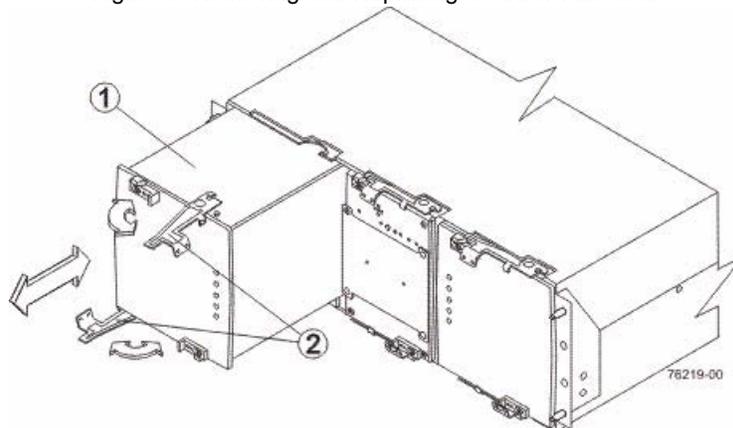


- 1 Power-Fan Power LED (Green)
- 2 Power-Fan Service Action Required LED (Amber)
- 3 Power-Fan Service Action Allowed LED (Blue)

If a fault is detected, the amber Power-Fan Service Action Required LED is on. If you can safely remove the power-fan CRU, the blue Power-Fan Service Action Allowed LED is on.

- 7 Remove the power-fan CRU from the controller module.
 - a Unlock and rotate the release handles out to disengage the power-fan CRU.
 - b Use the release handles to pull the power-fan CRU out of the controller module.

Figure 1 Removing and Replacing a Power-Fan CRU



- 1 Power-Fan CRU
- 2 Release Handles

- 8 Slide the replacement power-fan CRU all of the way into the controller module. Rotate the release handles in to lock the power-fan CRU into place.

- 9 Look at the Power-Fan Power LED and the Power-Fan Service Action Required LED. Based on the LED status, perform one of these actions:
 - **The Power-Fan Power LED is on and the Power-Fan Service Action Required LED is on** – The new power-fan CRU might be installed incorrectly. Reinstall the power-fan CRU, and go to step 10.
 - **The Power-Fan Power LED is off or the Power-Fan Service Action Required LED is on** – Check that the power-fan CRU is installed correctly. Reinstall the power-fan CRU. Go to step 10.
 - **The Power-Fan Power LED is on and the Power-Fan Service Action Required LED is off** – Go to step 11.
- 10 Did this action correct the problem?
 - **Yes** – Go to step 11.
 - **No** – If the problem is not resolved, contact your Sun Customer Care Center.
- 11 Complete any remaining Recovery Guru procedures, if needed.
- 12 Using the LEDs and the storage management software, check the status of all of the modules in the storage array.
- 13 Does any component have a Needs Attention status?
 - **Yes** – Click the **Recovery Guru** toolbar button in the Array Management Window, and complete the recovery procedure. If a problem is not resolved, contact your Sun Customer Care Center.
 - **No** – Go to step 14.
- 14 Install the front cover by aligning the pins on the controller module chassis with the spring-steel retainers on the cover, and press the cover toward the chassis until the pins snap into place.
- 15 Remove the antistatic protection.
- 16 Create, save, and print a new storage array profile.

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