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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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.

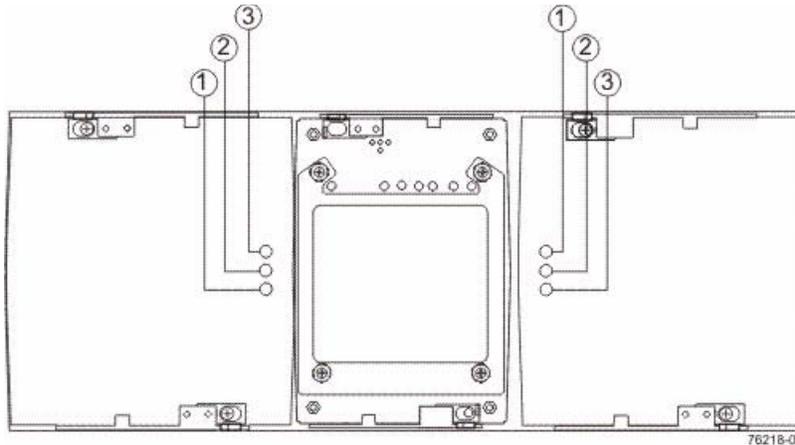You can determine whether you have a failed power-fan CRU in two ways:

- 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.

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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.
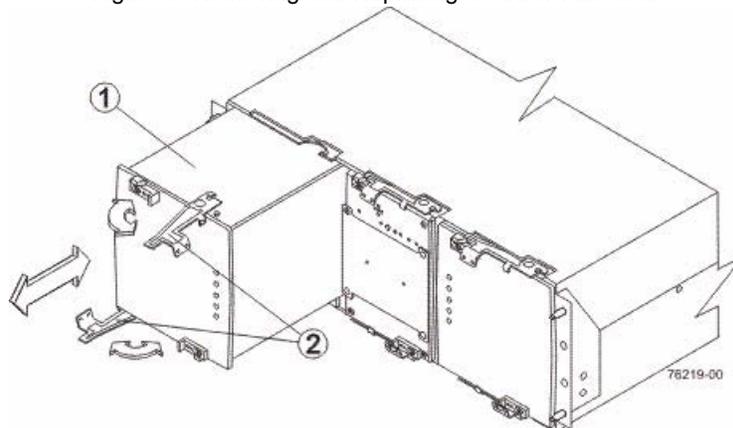

  1 Power-Fan Power LED (Green)
  2 Power-Fan Service Action Required LED (Amber)
  3 Power-Fan Service Action Allowed LED (Blue)

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.

Please
Recycle

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