Replacing an Interconnect Battery CRU in the 6580/6780 Controller Module

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Revision History

Version and Date	Description of Changes
51359-00, Rev. A, May 2011	Initial release of the document.

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Replacing an Interconnect-Battery CRU in the 6580/6780 Controller Module

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

You can determine whether you have a failed interconnect-battery CRU in two ways:

- The Recovery Guru directs you to replace a failed interconnect-battery CRU.
- You locate the failed interconnect-battery CRU by checking the Interconnect-Battery Service Action Required LED on the interconnect-battery CRU.

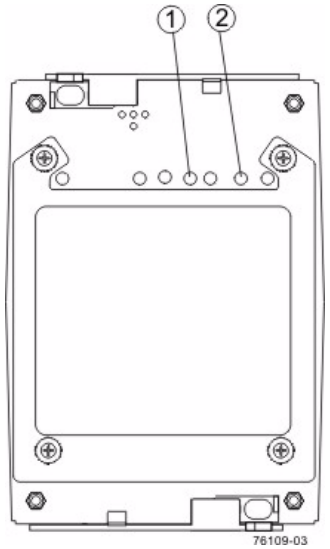
ATTENTION **Possible hardware damage** – To prevent electrostatic discharge damage to the module, use proper antistatic protection when handling module components.

IMPORTANT The replacement interconnect-battery CRU does not include battery packs. You must remove the battery packs from the interconnect-battery CRU that is being replaced, and install them in the new interconnect-battery CRU. The steps to perform this task are included in this 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 interconnect-battery CRU?
   - **Yes** – Go to step 3.
   - **No** – Run the Recovery Guru to identify the failed component, and go to step 3.
3. Put on antistatic protection.
4. Unpack the new interconnect-battery CRU.
   a. Set the new interconnect-battery 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 interconnect-battery CRU.
5. Remove the front cover of the controller module by grasping the sides and pulling the cover toward you.
6. Make sure that the Service Action Required LED on the interconnect-battery CRU has come on.

If an interconnect-battery CRU fault is detected, the amber Interconnect-Battery Service Action Required LED is on. If you can safely remove the interconnect-battery CRU, the blue Interconnect-Battery Service Action Allowed LED is on.

Figure 1 Service Action LEDs on the Interconnect-Battery CRU



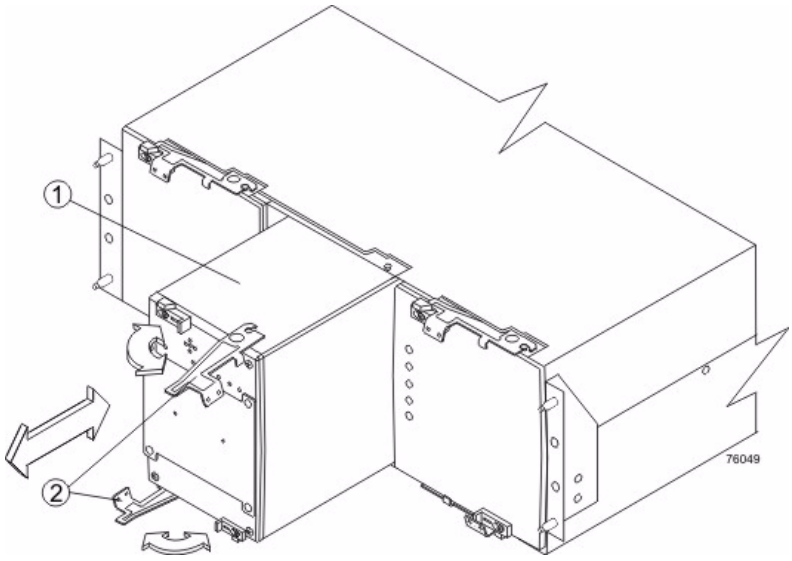
1 Interconnect-Battery Service Action Required LED (Amber)
2 Interconnect-Battery Service Action Allowed LED (Blue)

7 Remove the interconnect-battery CRU from the controller module.

a Unlock and rotate the release handles out to disengage the interconnect-battery CRU.

b Use the release handles to pull the interconnect-battery CRU out of the controller module.

Figure 2 Removing and Replacing an Interconnect-Battery CRU



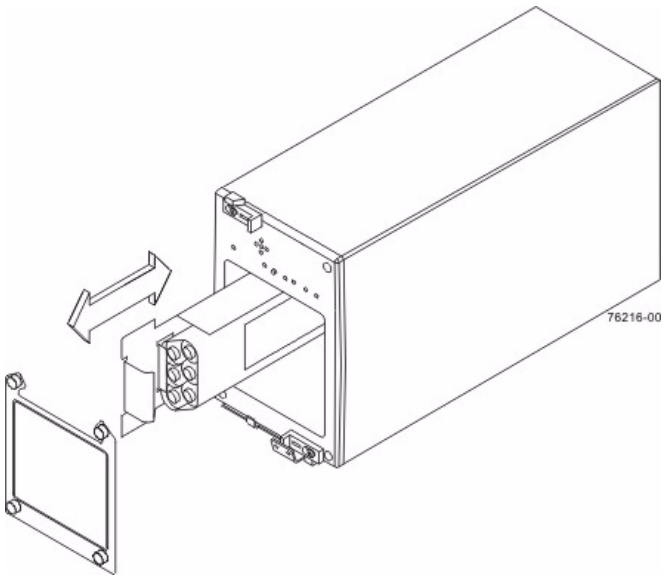
1 Interconnect-Battery CRU
2 Release Handles

8. Remove the battery packs from the removed interconnect-battery CRU.

   a. Loosen the battery compartment thumbscrews, and remove the battery compartment cover.

   b. Remove the battery packs by grasping the sheet metal handles and sliding the battery packs toward you.

Figure 3 Battery Compartment Cover and Battery Pack Removal



9. Install the battery packs into the replacement interconnect-battery CRU.

   a. Insert the battery packs by sliding the new battery packs toward the rear of the interconnect-battery CRU. Make sure that each battery pack is inserted fully into its connector at the rear of the CRU.

   b. Replace the battery compartment cover, and tighten the thumbscrews.

10. Look at the rear of the replacement interconnect-battery CRU, and make sure that the interconnect-battery CRU pin aligns with the relief in the controller module chassis.

11. Slide the replacement interconnect-battery CRU all the way into the controller module. Rotate the release handles in to lock the interconnect-battery CRU into place.

12. Look at the LEDs on the replacement interconnect-battery CRU to make sure that it is functioning (Figure 1 on page2).

    The LEDs come on and go off intermittently for approximately 60 seconds (possibly longer). After this time, you are able to discover the controller module with the new interconnect-battery CRU through the storage management software.

13 Look at the Service Action Required LED on the interconnect-battery CRU. Based on the LED status, perform one of these actions:

- **The Service Action Required LED is off** – Go to step 15.
- **The Service Action Required LED is on** – Check that the interconnect-battery CRU is installed correctly. Reinstall the interconnect-battery CRU if necessary. Go to step 14.

14 Did this action correct the problem?

- **Yes** – Go to step 15.
- **No** – If the problem is not resolved, contact your Sun Customer Care Center.

15 Complete any remaining Recovery Guru procedures, if needed.

16 Using the LEDs and the storage management software, check the status of all of the modules in the storage array.

17 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 the problem is not resolved, contact your Sun Customer Care Center.
- **No** – Go to step 18.

18 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.

19 Remove the antistatic protection.

20 Create, save, and print a new storage array profile.

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