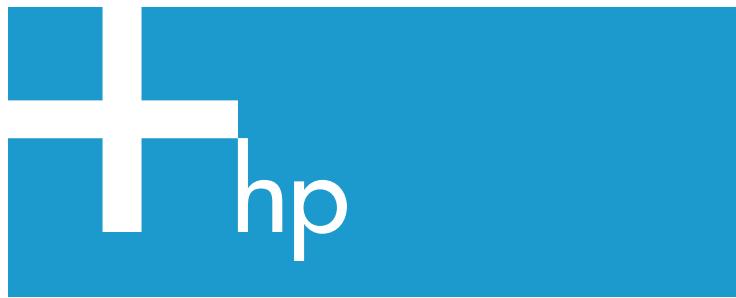


HP StorageWorks

Cache Battery Replacement Instructions



These instructions apply to the EVA 4000/6000/8000 products. The part may also be used in other HP products. Please refer to documentation for your specific product for detailed replacement instructions.



Printed on at least 50% total recycled fiber with at least 10% post-consumer paper.

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Warranty Information

If the product in which this part is being replaced is still under HP warranty, then the replacement part(s) referred to in these Replacement Instructions is provided under the terms and conditions of the Hewlett-Packard Company Limited Warranty for that product. A copy of this Limited Warranty may be viewed at: <http://h18006.www1.hp.com/products/storageworks/warranty.html>

If this is a trade sale part (product out of warranty), then the replacement part(s) referred to in these Replacement Instructions is provided under HP's express limited warranty statement, which may be viewed at: http://customerops.corp.hp.com/1sw/pdm_om/warranty_support/policies/2330100.doc

The replacement part takes on either the Limited Warranty Period of the part being replaced or a ninety-day period that begins upon installation of the replacement part, whichever is greater.

The only warranty for this replacement product is as noted above. Nothing in these replacement instructions should be construed as constituting an additional warranty. The information provided in these replacement instructions is provided "AS IS" and HP is not liable for technical or editorial errors or omissions contained herein.

1 About This Document

This document describes the procedure for replacing the cache battery used in EVA 4000/6000/8000 products.



NOTE:

There are two cache batteries installed in the EVA8000 controller enclosure in slots 0 and 1 at the left end of the enclosure. There is only one battery in the EVA4000 and EVA6000 controller installed in the upper slot (0).

2 Before you begin

Observe the following precautions when replacing a battery.



CAUTION:

Parts can be damaged by electrostatic discharge. Use proper anti-static protection. Refer to the documentation that shipped with your system for additional information.

Use two hands when removing a battery to ensure you do not drop it.

Have a copy of the product User Guide available for reference. You can download a copy of the User Guide from the product support page on the HP web site.



* 5 6 9 7 - 5 2 4 7 *

3 Verifying component failure

Before replacing a battery, use the following methods to verify the component failure:

△ CAUTION:

If Command View EVA does not present a status consistent with that of the battery status indicator, or if Command View or the System Event Analyzer indicates multiple hardware failures, contact HP support for assistance. The HP support web site is located at <http://www.hp.com/support>

- Analyze any failure messages you may have received from system monitoring (System Event Analyzer).
- Check status using Command View EVA:

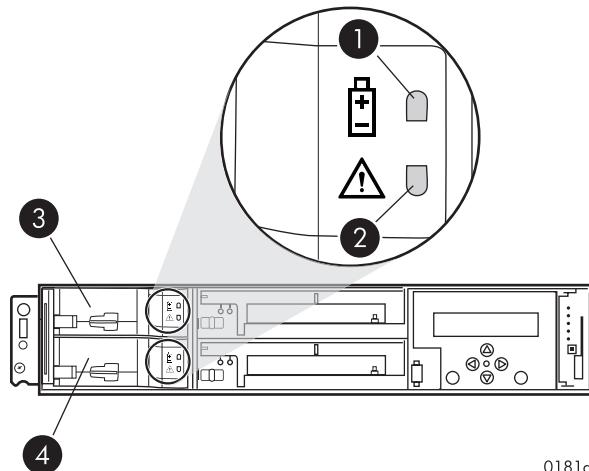
△ CAUTION:

The battery numbering presented in Command View EVA is inconsistent with the numbering used in the array. The numbering in Command View begins with 1 rather than 0.

The upper left battery is identified as 0 in this document and in the event logs, but it is identified as 1 in Command View. The lower left battery is identified as 1 in this document and in the event logs, but it is identified as 2 in Command View. Remember to make this conversion when replacing the battery.

New instructions will be published when this problem is fixed.

1. In the Navigation pane, select **Storage system > Hardware > Rack > Controller enclosure > Controller**
2. In the Content pane, select the **Enclosure** tab. The status is displayed in the **Cache Battery Modules** field. The status should be Failed 
3. To help identify the correct enclosure, click **Locate > Locate On** to display **Locate Confirmed** on the controller operator control panel (OCP). The blue Unit ID indicator will also turn on.
- Check the battery status indicators. See [Figure 1](#). The battery fault indicator should be on. To view the status indicators it is necessary to remove the front panel as described in [Removing a battery](#).



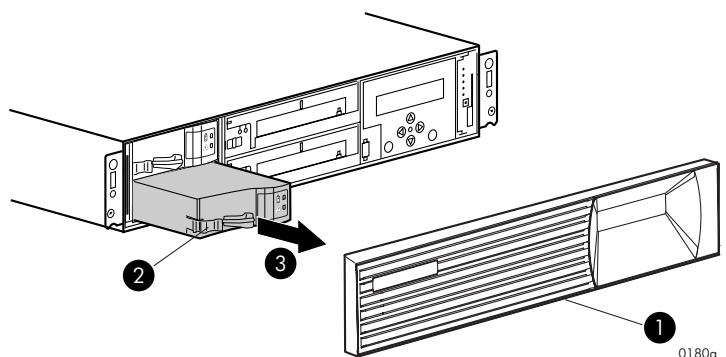
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Figure 1 Battery status indicators

1. Status indicator
2. Fault indicator
3. Battery 0 (1 in Command View)
4. Battery 1 (2 in Command View)

4 Removing a battery

1. Remove the front panel (1, [Figure 2](#)) by grasping the panel at each end pulling it off the enclosure.
2. While moving the battery mounting latch (2, [Figure 2](#)) to the right, pull the battery out of the enclosure (3). Support the battery with both hands as it is removed.

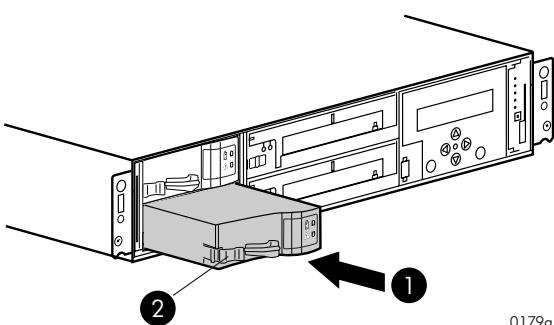


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Figure 2 Removing a battery

5 Installing a battery

- Position the battery as high in the slot as possible, then slide the battery into the enclosure (1, [Figure 3](#)) until it is fully seated and the mounting latch engages (2).



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Figure 3 Installing a battery

6 Verifying proper operation

After replacing the battery, check the following to verify that the component is operating properly:

NOTE:

It may take up to 10 minutes for the component to display good status.

- Check the battery status indicators. See [Figure 1](#)

- During the first minute, both status indicators may be on or flashing.
- The status indicator (1) should then begin flashing, indicating the battery is charging. It may take several hours for a new battery to fully charge. The fault indicator (2) should be off during charging.

After checking the status indicator, install the front panel on the enclosure by pressing it firmly into place.

- From Command View EVA

- Navigate back to the component and check the status. It should be 
- Turn off the locate function by clicking **Locate > Locate Off**

7 Returning the failed component

Please follow the return instructions provided with the new component.