



Replacing a drive module in its carrier for a 4U enclosure

SEAGATE

Exos Corvault 4U106, Exos E 4U106 storage systems, and Exos AP 4U100 Integrated Storage Servers

This document contains the steps in replacing a drive module in its carrier for a 4U enclosure. More detailed information is found in the Hardware Maintenance and Installation Guide (HMIG) for the Exos Corvault 4U106, Exos E 4U106 storage systems, and Exos AP 4U100 Integrated Storage Servers. You can find the documents located at <https://www.seagate.com/support/data-storage-systems>.

DDIC – Disk Drive in Carrier

To remove and replace a drive carrier:

1. If you plan on removing all drive carriers, properly shut down the storage enclosure.
2. Retrieve the new drive module in its static-protected container, ready to access and use it upon removal of the faulty one.
3. (Optional) As an extra safety measure while installing drive carriers, support the storage enclosure with a mechanical lift to avoid any potential issues caused by downward forces.
4. Facing the front of the rack cabinet, loosen the storage enclosure chassis flanges by twisting the top captive thumbscrew on each side of the storage enclosure to the left.
5. Lower the pull handles then gently and steadily pull the storage enclosure out on its rails until it locks in the service position.
6. Complete one of the following actions, based on the location of the drive module:
 - a. For drive carriers in the main bay: After locating the main bay cover's front or rear latch, depending on the location of the drive carrier you need to replace, push on the tab, release it by pressing the latch away from the front or rear panel and toward the hinge, then resting the open half of the cover on the closed half.
 - b. For drive carriers in the auxiliary bay: After locating the auxiliary bay cover's front latch, release it by pressing the latch in to release the cover, then lift the cover away and set it aside.
7. Locate the drive carrier you need to replace. The fault LED for each drive carrier is a steady or blinking amber for a fault condition. Otherwise, it is off.

CAUTION You must replace the faulty drive module with a drive module of the same type with a capacity equal to or greater than the one due for replacement. Otherwise, the storage enclosure cannot use the new drive module to reconstruct the disk group.

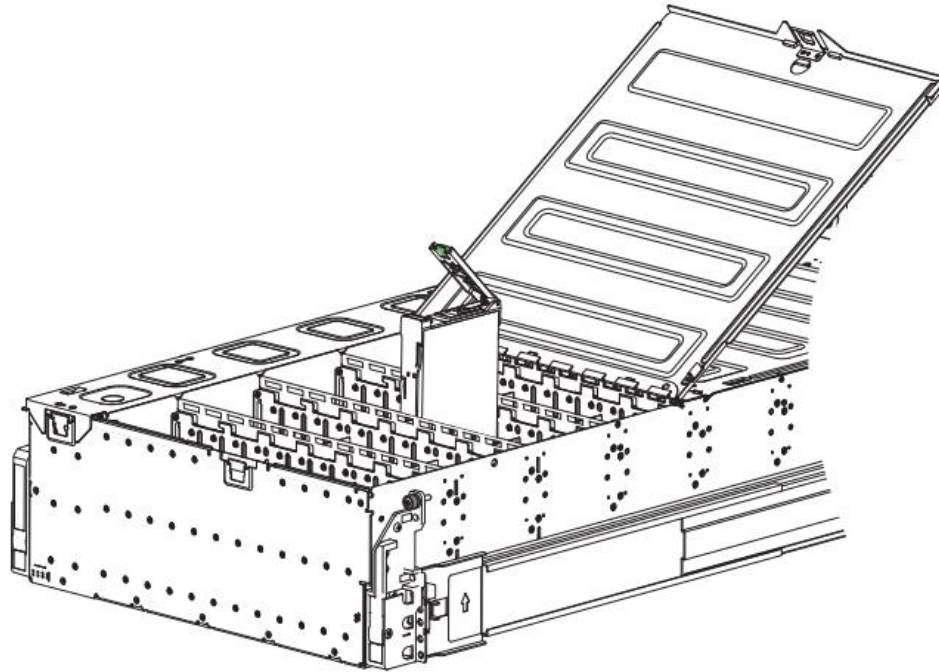
8. Press the release latch toward the rear to release the handle, then pull the handle upward until it disengages the drive carrier from the baseplane.



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Removal of drive carrier from the main bay, other drive carriers removed for clarity.

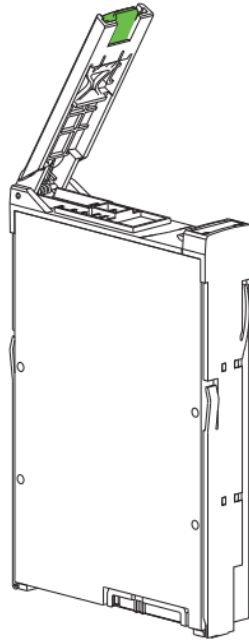
9. Lift the drive carrier carefully away from its slot and set it aside.
10. While maintaining proper static protection, remove the new drive module in its carrier from its static-protected container.
11. Using the same orientation, open the latch so the hinge of the handle is toward the rear of the chassis, then slide it carefully into its empty slot and press downward on the drive carrier until you feel it connect to its baseplane.



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Orientation of drive carrier handle

12. Close and press down on the drive carrier handle and engage the locking mechanism.
13. If you are replacing all drive carriers, repeat the entire process for each of them.
14. Verify the drive carrier fault LED is off.
15. Return to the front panel of the storage enclosure and verify that neither the Fault-Main bay nor the Fault-Auxiliary bay LED is steady amber.
16. Complete one of the following actions, based on the location of the drive module:
 - a. For drive carriers in the main bay: Close the half of the main bay cover you opened, latching it firmly in place.
 - b. For drive carriers in the auxiliary bay: Replace the auxiliary bay cover, latching it firmly in place.
17. (Optional) Lower and remove the mechanical lift.
18. Facing the front panel, locate and depress both safety lock switches to release the rails.
19. Carefully exert even pressure on both sides of the storage enclosure front and continue insertion all the way into the rack until it locks in the storage position. Do not force insertion, which could damage the rails.
20. Secure the storage enclosure chassis flanges to the rack cabinet, fastening the top captive thumbscrew on each side until tight.