





Exos 5U84

Cold Swap Sideplane Replacement Guide

1 Introduction

1.1 Safety

-  **Caution:** Use of equipment in a manner not specified by the manufacturer can impair the protection designed into and provided by the equipment.
-  **Caution:** Wear ear protection for any prolonged exposure to product acoustics.
-  **Caution:** Operating temperatures inside the enclosure drawers can reach up to 60°C. Take care when opening drawers.
-  **Caution:** For increased rack stability and temperature management, drawers are only able to be opened one at a time. Do not attempt to force open a drawer when the other drawer is already open.

1.2 ESD precautions

It is recommended that you fit and test a suitable anti-static wrist or ankle strap and observe all conventional ESD precautions when handling plug-in modules and components. Avoid contact with backplane components and module connectors, etc.

1.3 Before you begin

Select and use the left-hand (LH) sideplane for the left side and the right-hand sideplane for the right.

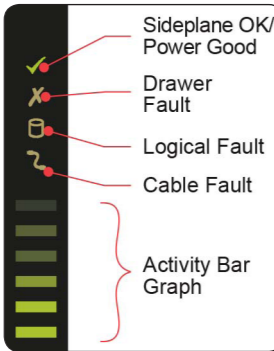


Figure 1: Drawer sideplane status indicators

2 Installation

2.1 Open drawer

1. Disconnect any power connection from the storage enclosure power supplies or power distribution unit (PDU).
2. Make sure the anti-tamper locks are not engaged. The red arrows on the locks will point inwards if the locks are disengaged (Figure 2). If necessary, unlock them by rotating them counterclockwise using a screwdriver with a torx T20 bit.
3. Push the drawer latches inward and hold them (Figure 3).
4. Pull the drawer all the way out until it locks open.



Figure 2: Anti-tamper locks

2.2 Sideplane removal

1. Fully loosen both captive screws at each end of the top cover, unclip from lower cover and remove (Figure 5).
2. Gently unclip the 3 power cables and unroute them from the cable retaining clips, allowing the cables to dangle at the rear of drawer (Figure 6).
3. Gently unclip the SAS connectors at the rear of the sideplane (Figure 6).
4. Fully loosen the 3 captive screws retaining the lower sideplane assembly.
5. Use the Seagate removal tool at the highlighted locations (Figure 7) to lever the sideplane from the drawer by gently rocking front to back, but never top to bottom or by twisting the tool.

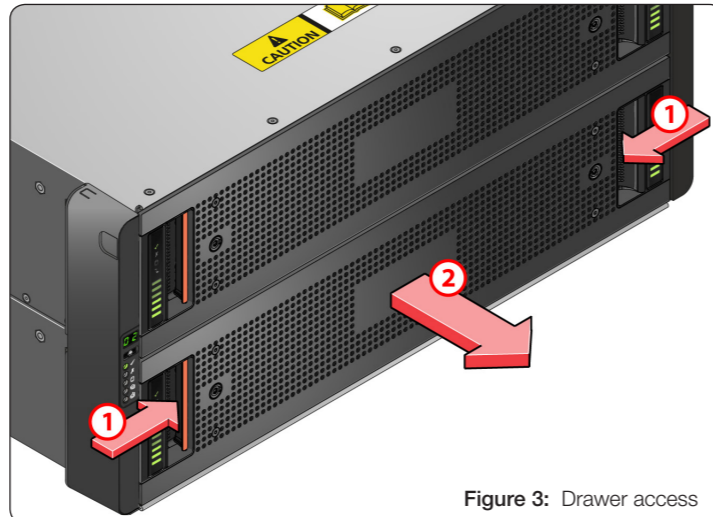


Figure 3: Drawer access

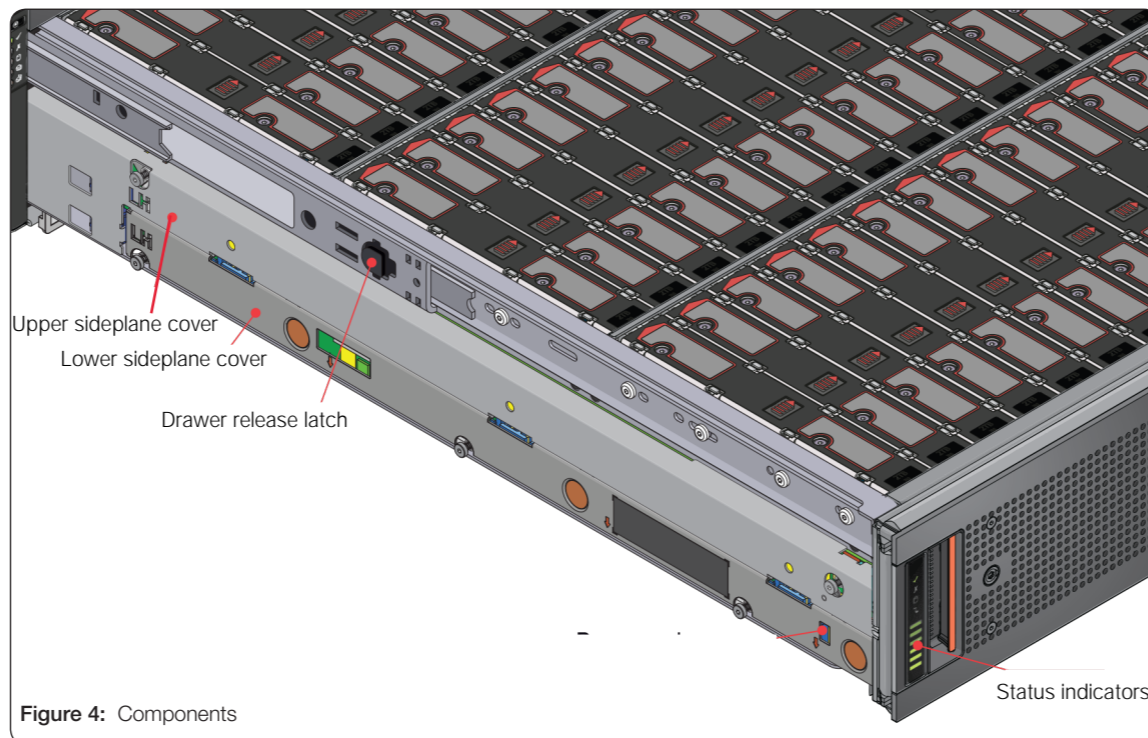


Figure 4: Components

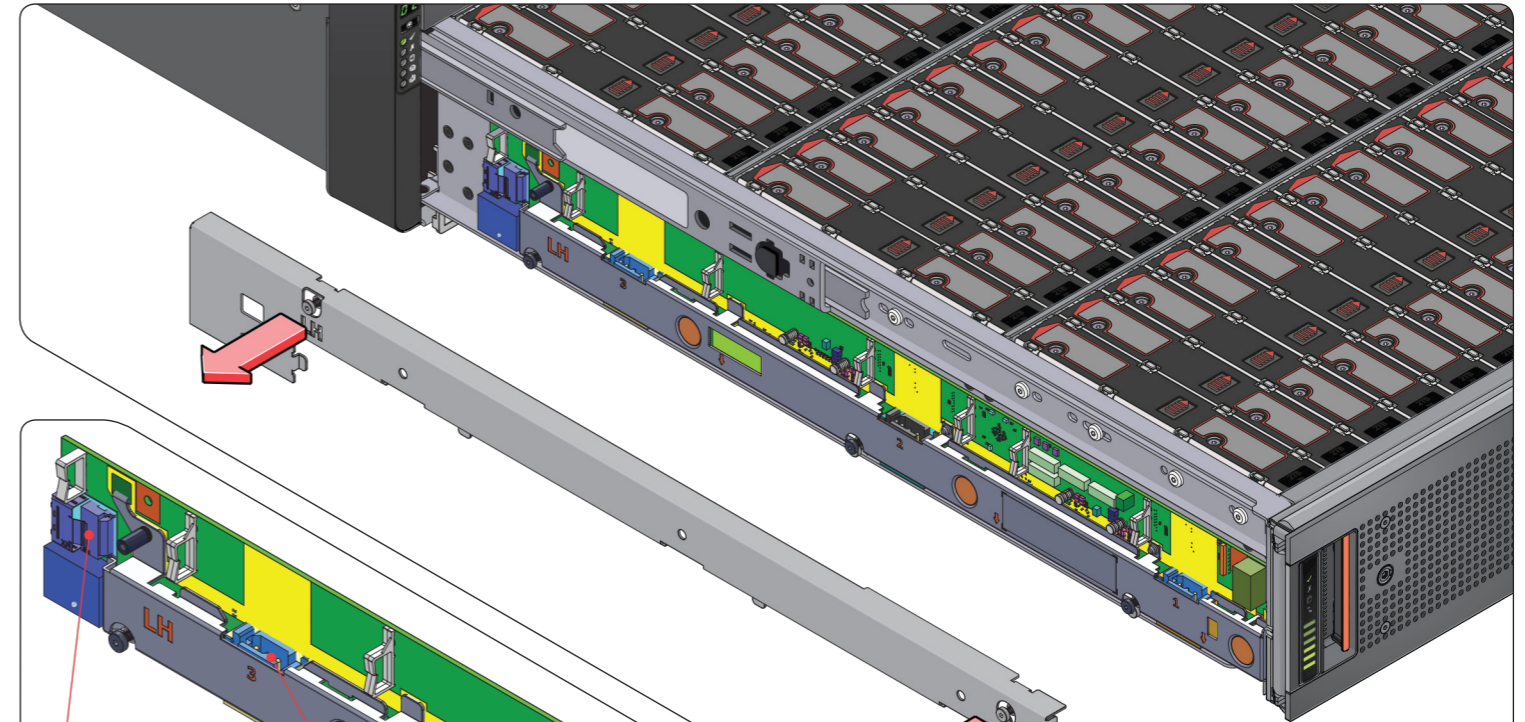


Figure 5: Upper sideplane cover removal

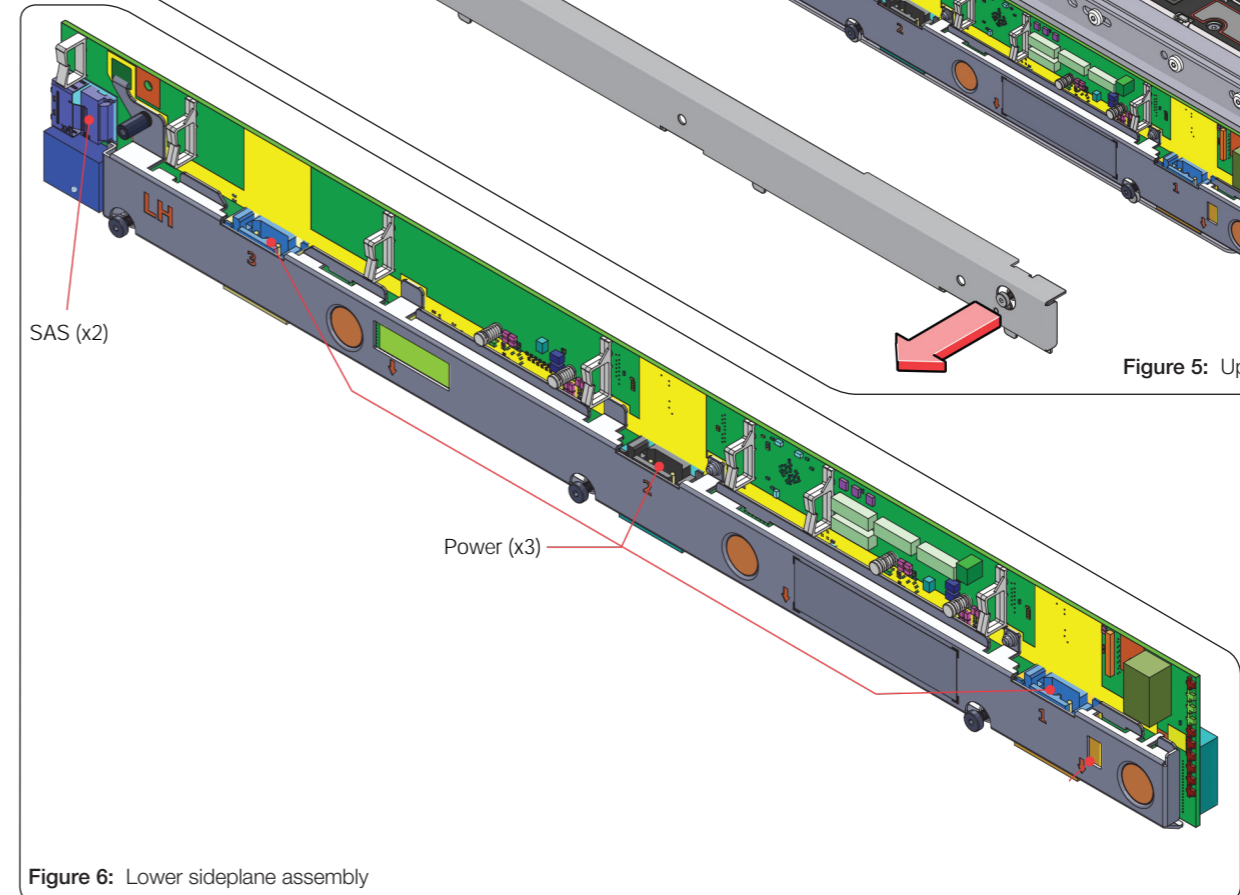


Figure 6: Lower sideplane assembly

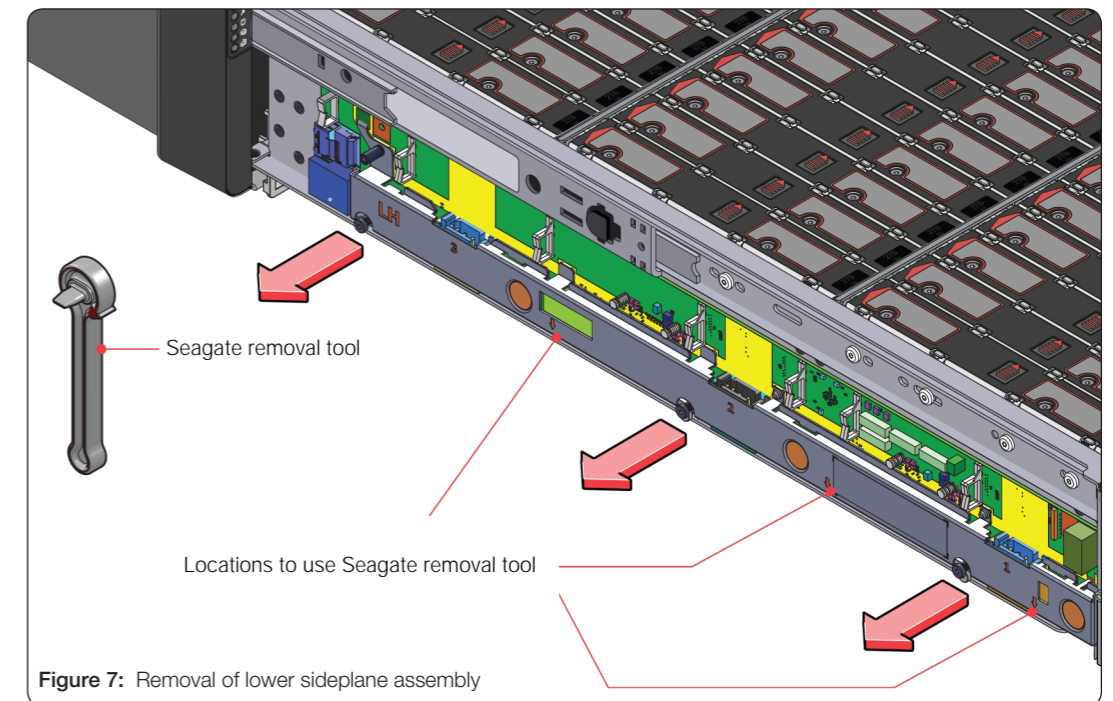


Figure 7: Removal of lower sideplane assembly

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2.3 Sideplane replacement

1. Locate the sideplane assembly in position over the related half connectors and then steadily and gently apply pressure on the pressure application points until all connectors fully mate (Figure 8).
2. Connect the SAS connectors on the sideplane assembly, observing the connector keying.
3. Fully tighten the 3 captive screws.
4. Reroute and attach all 3 power cables.

Important: Make sure there is no excessive tension on the cables and that the covers sit correctly. See Figure 9 for correct cabling positions.

5. Position the rear tab of the upper sideplane cover into the slot in the lower sideplane cover (Figure 10).
6. Rotate the upper sideplane cover down and fit each of the 3 tabs into the corresponding slots in the lower sideplane cover (Figure 10).
7. Fasten the front captive screw in the upper sideplane cover first, then fasten the rear captive screw.

2.4 Close drawer

1. Press and hold both of the black release latches on each side of the drawer (Figure 11).
2. Push the drawer slightly inward.
3. Release the latches.
4. Use both hands to push either side of the drawer all the way in until it is flush with the enclosure and you hear an audible click.

2.5 Finish

1. Reconnect power to the storage enclosure power supplies and power on storage system.
2. On the left and right sideplane indicators, confirm the green *Sideplane OK* LED is on and no amber LEDs are on.
3. Update the sideplane firmware elements to match the versions in the remainder of the enclosure.

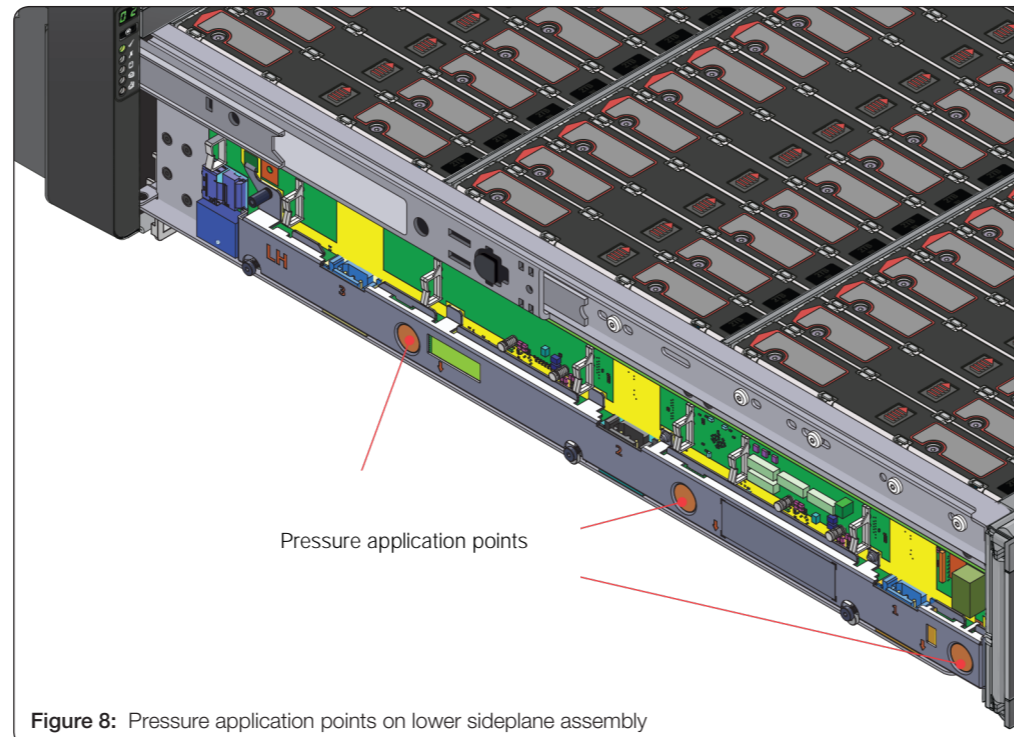


Figure 8: Pressure application points on lower sideplane assembly

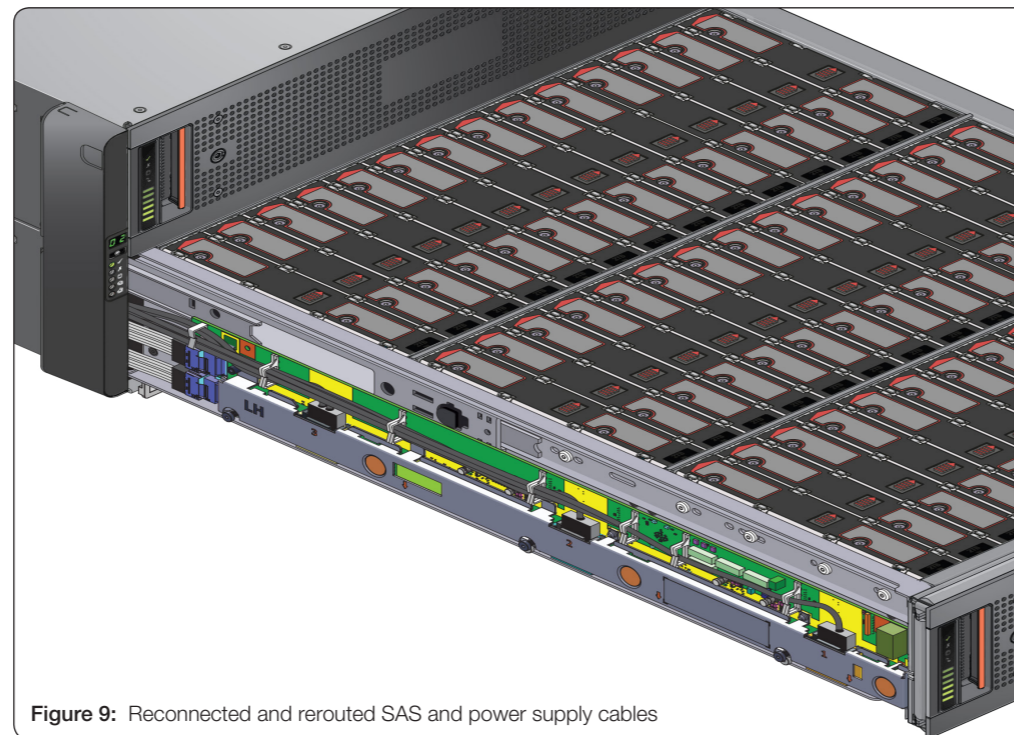


Figure 9: Reconnected and rerouted SAS and power supply cables

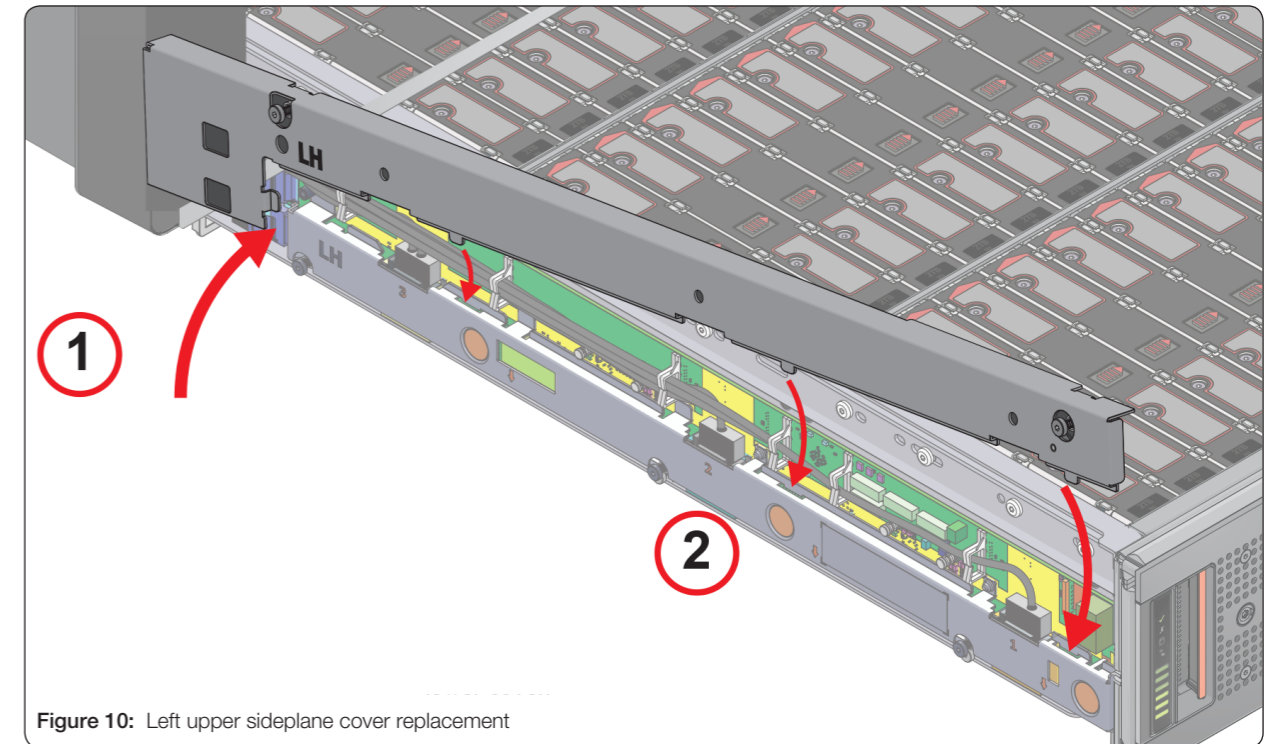


Figure 10: Left upper sideplane cover replacement

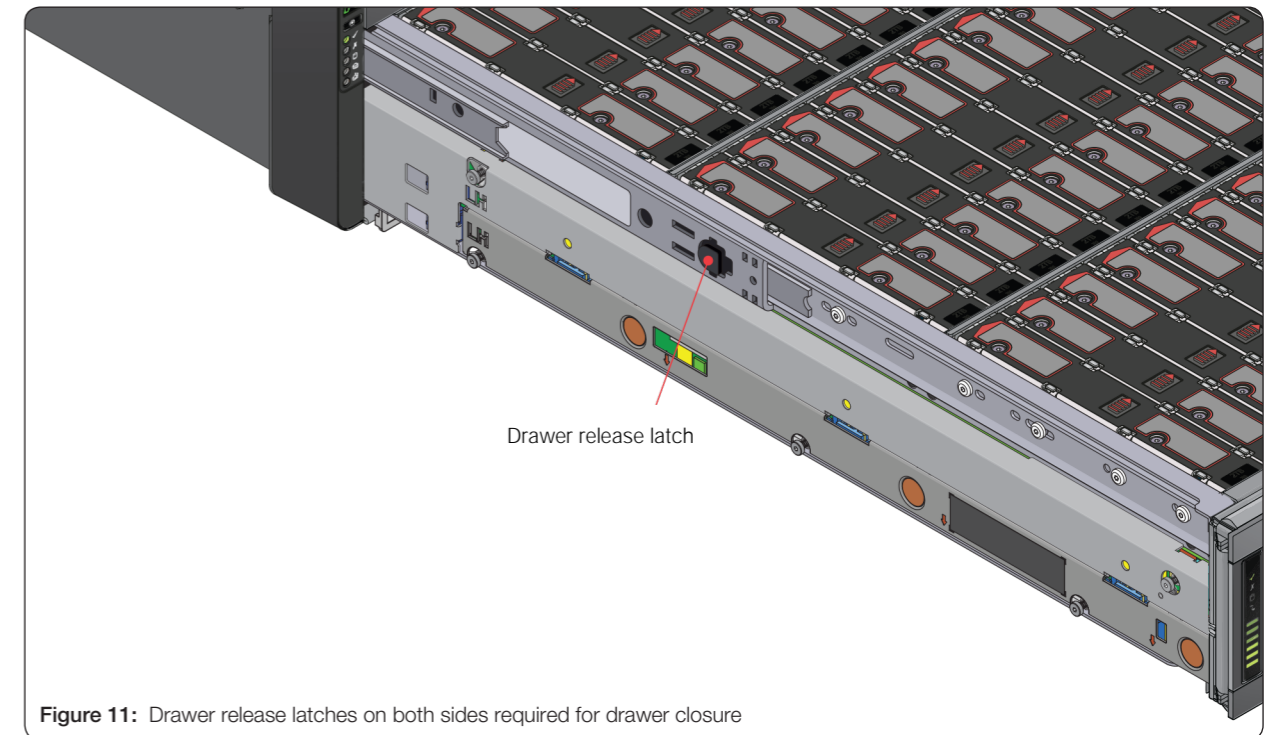


Figure 11: Drawer release latches on both sides required for drawer closure

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Seagate Technology LLC
47488 Kato Road
Fremont, CA 94538
U.S.A.

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