



Appliance Installation Guide – 2U

Version 2.3



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About this Guide

The *Appliance Installation Guide* contains the instructions for installing the 2U version of the Slicestor® appliance into a rack. This appliance contains a redundant power supply. The audience is individuals responsible for hardware and rack installation.

NOTE: The *Appliance Installation Guide* is included in the box with the appliance. It is also available at the following web site: <http://www.cleversafe.com/support/documentation>.

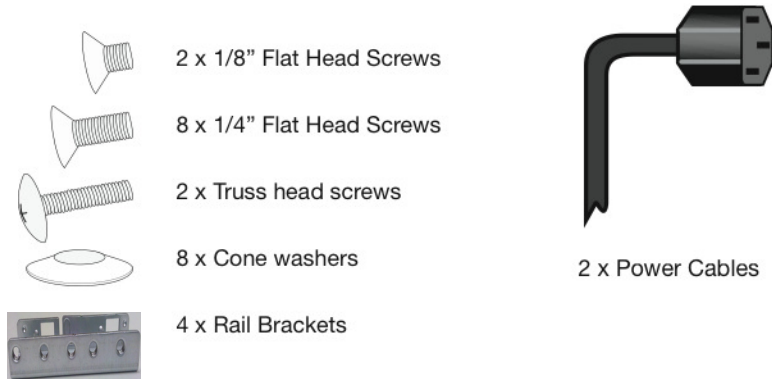
Once all appliances have been installed in the rack, the *Dispersed Storage® Networks dsNet™ Administration Guide* describes dsNet systems and how to configure and use the appliances. The audience of this Guide is individuals responsible for data storage administration, appliance administration, or hardware administration.

NOTE: The *Dispersed Storage Networks dsNet Administration Guide* assumes that the appliances have already been installed in the rack.

Chapter 1. Parts and Preliminary Information

1.1 Shipping Box Contents

Please inspect the box in which the appliance was shipped and note if it was damaged in any way. The box should include left and right rail assemblies, 4 rail brackets, mounting screws to install the appliance in the rack, and the required power cables. See Figure 1 below.



Right (Top) and Left (Bottom) Rail Assemblies for a Standard Rack

Figure 1 - Parts and Rail Assemblies

Note that some appliances may come with Rev A (Revision A) rail assemblies, although most appliances will come with the newer Rev B (Revision B) rail assemblies. The Rev B rail assemblies improve the guidance design of the rail kit. In addition, there is a 2-3.5mm change in the diameter of the rail. This means that Rev A inner rails can only be used with Rev A outer rails, and Rev B inner rails can only be used with Rev B outer rails. As long as the appliance is racked with the rails that come with it, there should be no problems.

Figure 2 below shows how to identify a set of Rev B rails. Not only do the Rev B inner and outer rails have yellow revision stickers, but the Rev B inner rail also has a new added punch.

2U+ quick release rail rev B change

You can quickly identify the Rev B rail by this new added punch on the inner rail:



Rev A inner only fits rev A outer; Rev B inner only fits rev B outer.

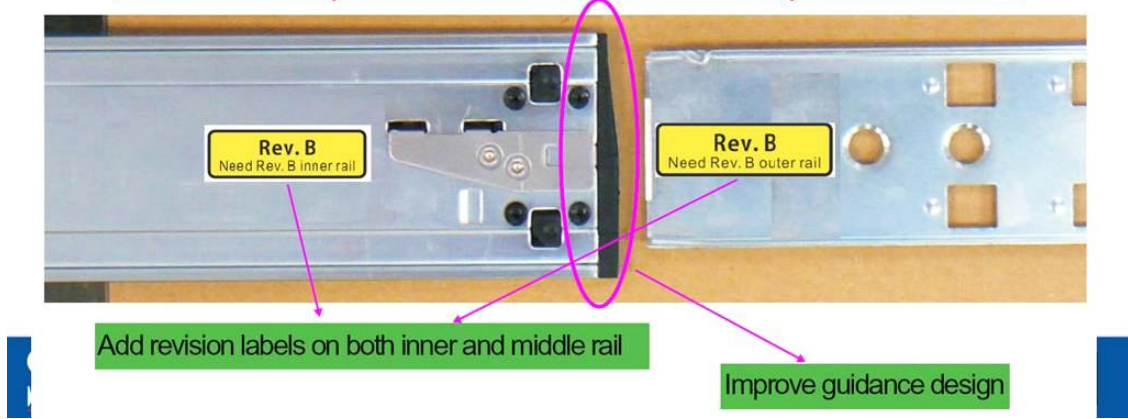


Figure 2 - Rev B Rail Assemblies

1.2 Additional Items Required

For the installation, you will also need the following, which are not included in the appliance boxes:

- 1 Standard Ethernet cable
- 1 Ethernet switch

1.3 Setup Location

The appliance should be situated in a clean, dust-free area that is well ventilated. Avoid areas where heat, electrical noise, and electromagnetic fields are generated. It should also be placed near a grounded power outlet.

Leave approximately 30 inches of clearance in the back of the rack to allow for sufficient airflow and ease of access.

Chapter 2. Appliance Installation into Rack

2.1 Rail Installation for a Standard Rack

The rail kits are meant for “tool-less” rack installation. Thus, they can be used directly without additional parts in square-hole racks.

NOTE: The side with the yellow instructions corresponds to the front of the rail (see Figure 1 shown earlier). On the inside of the rail, a sticker with an “L” (left) or “R” (right) should be visible. The piece containing the sticker (outer most piece if no sticker is present) is the inner rail, which will be fastened to the chassis. The inner rail also contains a thin black edge. The steps for extracting the inner rail will be provided later, after the rails are installed in the rack.

For square-hole racks, mount the left and right rail assemblies by depressing the black buttons and sliding the hooks in the rail assembly into the openings on the rack. This needs to be performed for the front and back of each rail assembly, adjusting as needed until the rail fits snugly in the rack.

For round-hole and threaded-hole racks, two pairs of rail brackets, A and B, are available to adapt the rails to the rack. See Figure 3 below.



Figure 3 - Rail Bracket A (Left in Figure) and Rail Bracket B (Right in Figure)

Rail bracket A mounts to the front of the left rail and to the rear of the right rail. Rail bracket B mounts to the front of the right rail and to the rear of the left rail. Figure 4 shows how to mount the rail bracket to the rail. Align the rail bracket openings with the metal hooks on the rail. Push the rail bracket toward the rail and slide up, depressing the black buttons. The rail bracket should lock into place. Once the brackets are in place, mount the brackets with the rail onto the rack as shown with two flat head screws and cone washers for each bracket. Thus, a total of eight flat head screws and cone washers will be used.

NOTE: When installing the rails within a rack, care should be taken to make sure that enough space is available for multiple 2U appliances.

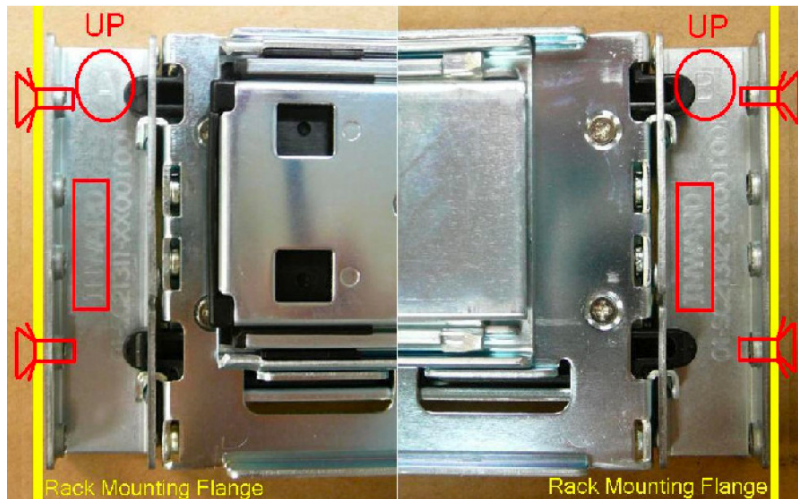


Figure 4 - Detailed View of Rail Bracket Mount with Rail (Front and Back)

Make sure the brackets and screws are aligned level in the rack from front to back and from left to right. Improper alignment could cause the appliance to fall out of the outer rails.

2.2 Removal of the Inner Rail

For ease of appliance installation, it is strongly recommended that the inner rail be separated from the rail assembly and fastened to the chassis before the appliance is installed in the rack. This section describes the necessary steps to remove the inner rail from the rail assembly. If the inner rail is already attached to the chassis, the steps in this section can be skipped.

- Step 1** Standing in front of the rack, slide the inner rail attached to the right rail assembly towards the front as far as possible, until the inner rail locks, and it cannot be moved any further.
- Step 2** Lift the latch on the inner rail (located on the outside of the inner rail, same side as the yellow instructions) towards the rail edge to remove the inner rail. Keep the latch in this position to slide and remove the inner rail. If the latch is not visible, the inner rail has not been pushed towards the front far enough. Go back to Step 1. With the latch lifted, slide the inner rail out of the rail assembly. See Figure 5 below.



Figure 5 - Inner Rail (Top) and Rail Assembly (Bottom)

Step 3 Repeat the steps above for the inner rail attached to the left rail assembly.

2.3 Appliance Installation

NOTE: A rubber mallet may be helpful as part of the inner rail installation to the chassis.

For each side of the chassis, fasten the inner rail to the chassis by aligning the inner rail openings with the fins on the side, tapping with a rubber mallet if necessary, and sliding the inner rail into place. A small flat head screw should be added towards the back for each side to ensure that the inner rail is properly fastened to the chassis.

At this point, the rails should be attached to both the chassis and the rack. To install the appliance into the rack, line up the rear of the chassis rails with the front of the rack rails. Press the latch and slide the chassis past the locking point, keeping the pressure even on both sides. When the appliance has been pushed completely into the rack, the locking tabs should “click”. Truss head screws can be used to further secure the chassis to the rack and rail. One screw can be used on each side through the opening below the handle on the front of the chassis.

Chapter 3. Cabling the Appliance

- Step 1** On the back panel, connect the power cables. When looking at the back of the appliance, the power connections are located on the left, stacked on top of each other. See Figure 6 below.

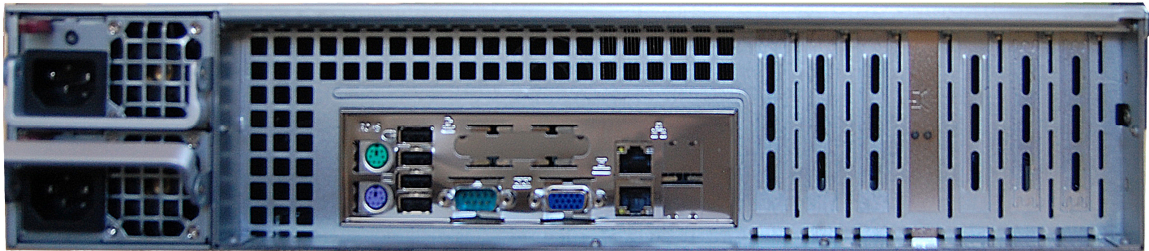


Figure 6 - Back of Appliance

- Step 2** The Ethernet connections are located towards the right of the rear panel and are stacked on top of each other. ETH0 is on the bottom; ETH1 is on top. Connect a standard Ethernet cable from the bottom Ethernet port (labeled ETH0 on the back panel of the appliance, not shown in Figure 6 above) to the Ethernet switch.
- Step 3** Turn on the power. The red power button is located on the bottom left corner of the appliance front panel (see Figure 7 below). To ensure the power is on, make sure the power light and the network link are lit up and listen for the fans running.



Figure 7 - Front of Appliance

Chapter 4. Customer Support

If issues are encountered that cannot be resolved and a current maintenance agreement with Cleversafe exists, contact Cleversafe support at: 312.784.4500.



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