AssuredSAN 4U56 Rackmount Bracket Kit Installation

P/N 83-00006946-10-01
Revision A
February 2016

83-00006946-10-01 rA

Before you begin

- Verify that the installation site meets the enclosure's requirements for space and airflow, temperature, and power (see the web-posted *setup guide* for your enclosure). See Dot Hill's customer resource center (CRC) for additional information https://crc.dothill.com.
- Considering your system configuration and weight distribution, determine where you will install each enclosure within the rack or cabinet. Install the first enclosure in the lowest rack space you plan to use. Install each remaining enclosure into the next-higher available space within the rack, until all enclosures are secured in place.
- Confirm that you have cables of appropriate type and length to connect to hosts and to power outlets.

△ **CAUTION:** Be sure you are properly grounded before touching a static-sensitive component to minimize potential for electronic discharge.

The person using these instructions must be qualified to service and install storage products.

△ **CAUTION:** At least two people, optionally using a mechanical lift, are required to raise and move the enclosure into the rack. For detailed instructions and safety precautions, refer to the "Weight and placement guidelines" section of the Assured*SAN 6004 Series Setup Guide*.

Required tools

- #2 Phillips screwdriver
- Antistatic protection devices

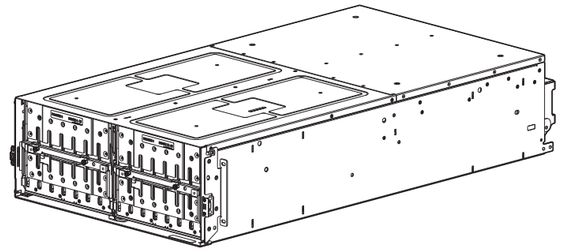
Rackmount bracket kit hardware

Code	Part description	Qty
	Rails and brackets	
-	Left rail (front sleeve with rear insert)	1-ea.
-	Right rail (front sleeve with rear insert)	1-ea.
	Screws	
A	#8-32 x 3/8, FH, PLP2, SS	6
B	#10-32 x 3/4, Truss, PLP, SS; or M5 x 10, PH, PLP2, SS; or M6 x 10, PH, PLP2, SS; or #12-24 x 3/8, PH, PLP, SS	8
C	#10-32, Shoulder, Round hole mtg; or #10-32, Shoulder, Square hole mtg; or #10-32 x 0.319, FH100, PLP2, SS; or M5 x 8.4, FH, PLP2, SS; or M6 x 9.4, FH, PLP2, SS; or #12-24 x 0.354, FH100, PLP2, SS	8
D	#10-32 x 0.217, FH100, PLP2, SS	3
	Nuts	
E	#10-32, STL - Cage Nut; or #10-32, UNF - Clip Nut	4
	Use fasteners that pertain to your rack type.	

IMPORTANT: Do not install disk drive modules until the chassis is securely mounted in the rack.

NOTE: During installation, apply torque specifications to screws as necessary.

- Rear tie-down screws used to attach the back of the chassis to the rail: 10 in-lbs +/- 1.0 in-lbs.
- All other rackmount bracket kit screws: 20 in-lbs +/- 2.0 in-lbs.



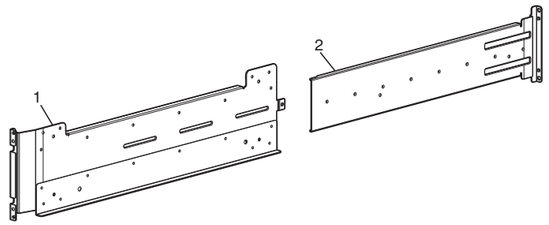
4U56 storage enclosure
(Enclosure bezel and disks are not installed)

1. Install rails

NOTE: The two rail kit installation pictorials immediately following show the left and right rails viewed from the front and looking rearward. An assembly and an exploded view is provided for each rail.

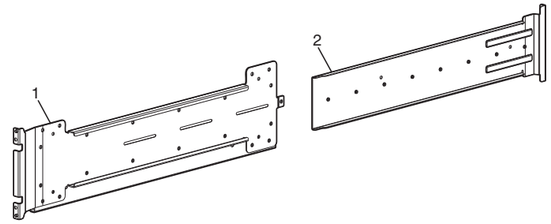
Complete sub-steps 1–8 (following) to install the rails.

1. Slide the rear rail insert (2) into the front rail sleeve (1).



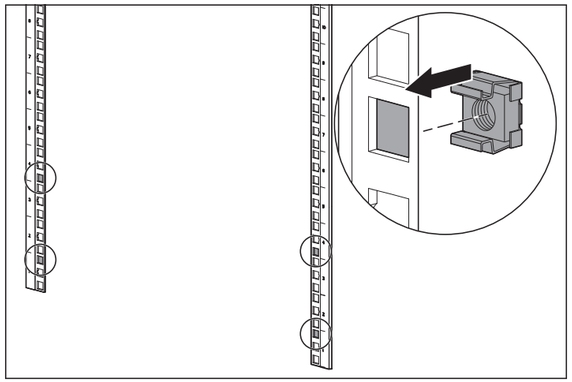
Screw code A — P/N: 01-00000262-00-01

2. To determine the cabinet depth required by the rails, fit the rail assembly to the rack and note which tapped holes in the rear rail inserts align with the slotted holes on front rail sleeves. If cage nuts are pre-installed, remove them.
3. Using the measurements recorded in sub-step 2 above, select two or three #8-32 x 3/8 flathead Phillips screws (depending on your cabinet depth) to loosely attach the rear rail insert to the front rail sleeve. You will tighten the screws later.



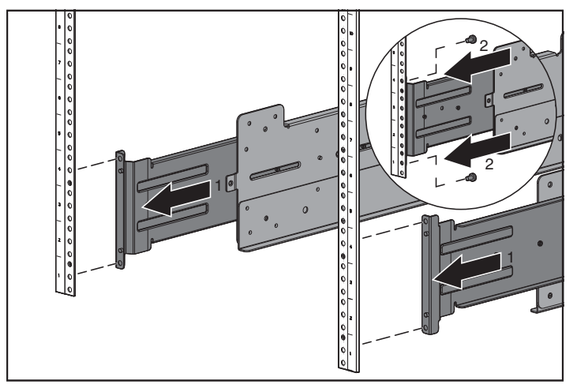
Screw code A — P/N: 01-00000262-00-01

4. For square-hole racks, front cage nuts must be installed 4 holes away from centerline of 4U space. For round-hole racks, use clip nuts instead.

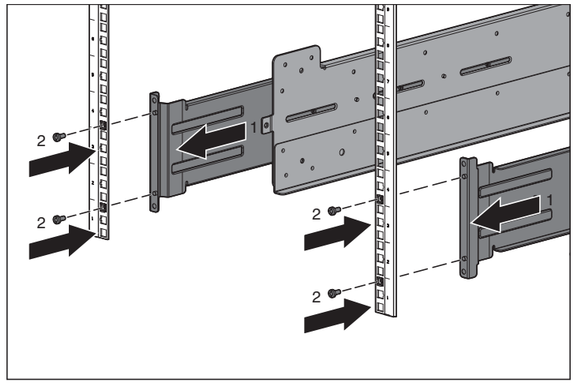


TIP: If using cage nuts, install them at the same square hole elevations—two per column—on all four rack posts.

5. Depending upon rack type, use two #10-32 x 3/4 truss Phillips screws or #12-24 x 3/8 Phillips screws or appropriate metric (5 or 6 mm) panhead screws to attach the rear rail assembly to the rear of the rack.
   - For pre-tapped screw racks, use two flathead screws of the appropriate size (#10-32, #12-24, M5, or M6) to attach the rear of the rail assembly to the rear of the rack using the two countersunk holes.



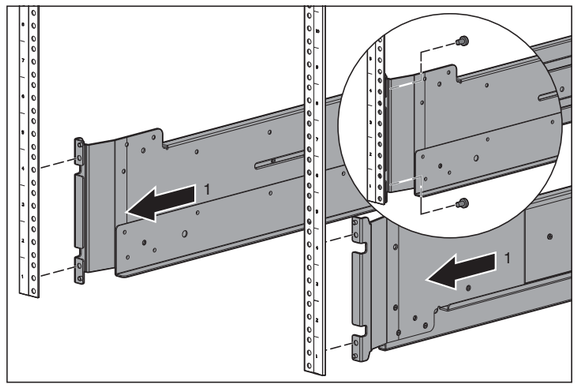
- For square-hole or round-hole racks, use two shoulder screws of the appropriate size (square-hole shoulder or round-hole shoulder) to attach the rear of the rail assembly to the rear of the rack. Do so by attaching the screws through the two tapped holes on the rear rail.



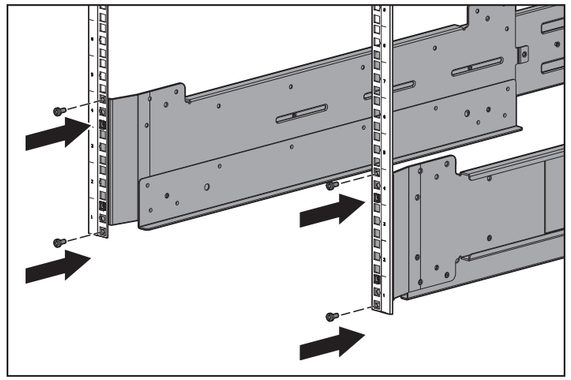
TIP: While tightening the screws, push the rails outward to maximize the opening width.

6. Do one of the following:

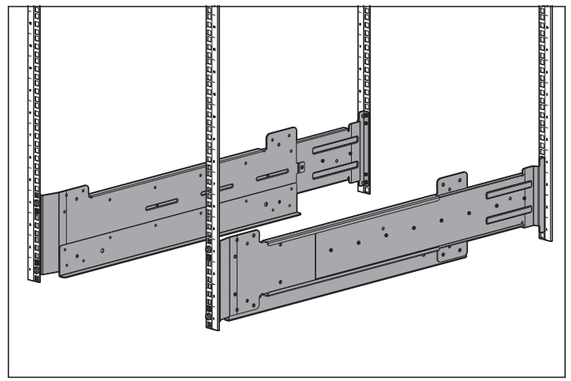
- For a rack with pre-tapped holes, use two flathead screws of the appropriate size (#10-32, #12-24, M5, or M6) to attach the front of the rail assembly to the front of the rack using the two countersunk holes.



- For square-hole or round-hole racks, use two shoulder screws of the appropriate size (square-hole shoulder or round-hole shoulder) to attach the front of the rail assembly to the front of the rack. Do so by attaching the screws through the two tapped holes on the front rail.



7. Tighten the screws that you loosely attached in Step 1 (sub-step 3).



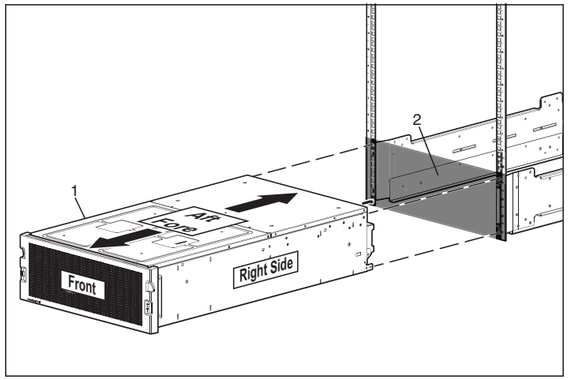
8. Repeat step 1 (with sub-steps) to secure the other side of the rail kit.

2. Install and secure the enclosure

1. Carefully lift/align the chassis and slide it into the rack. Ensure that the enclosure is level.

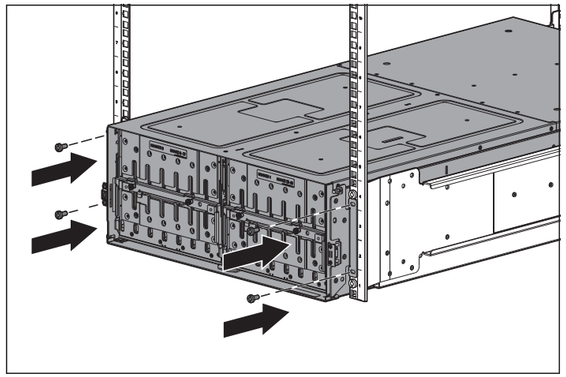
CAUTION:

- Chassis must be level (parallel to floor).
- Replace the rail if it becomes deformed as a result of inserting the enclosure in an unlevel position during installation.
- At least two people, optionally using a mechanical lift, are required to raise and move the enclosure into the rack. For detailed instructions and safety precautions, refer to the "Weight and placement guidelines" section of the *AssuredSAN 6004 Series Setup Guide*.

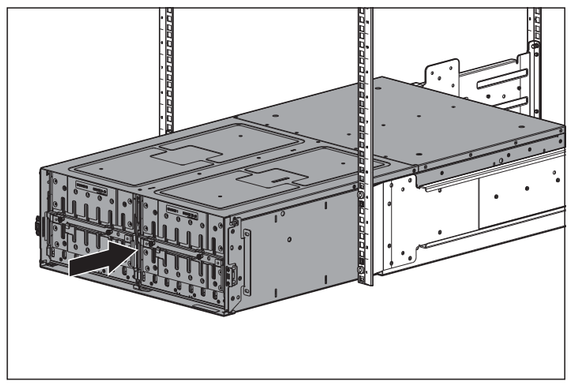


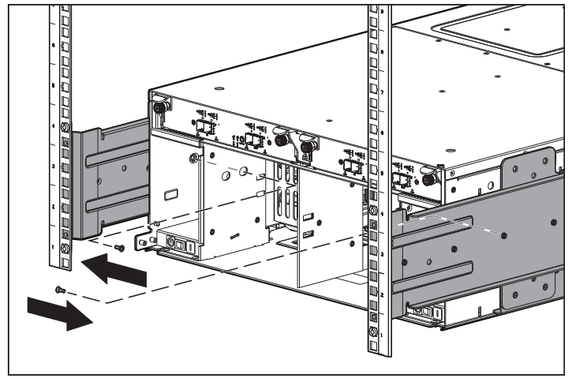
Code D — P/N: 01-00000317-00-01

2. Using a total of four #10-32 x 3/4 truss Phillips or #12-24 x 3/8 Phillips screws or appropriate metric (5 or 6 mm) panhead screws (two per ear), secure the mounting ears on the front of the enclosure to the rack face.



3. Remove both fan modules and PSUs. Insert a screwdriver into the PSU cavity access hole and secure the chassis to the rail using one #10-32 x 0.217 flathead Phillips screw. Repeat for the other side of the chassis. Reinstall the PSUs and fan modules.



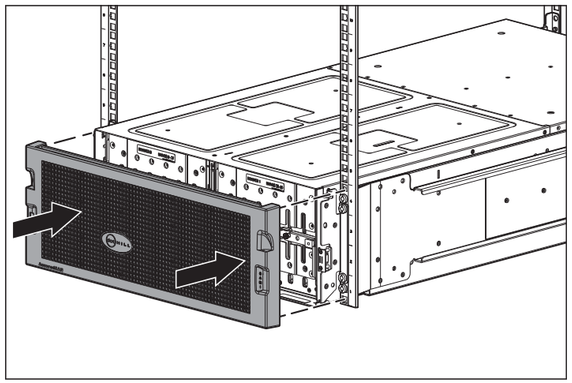


4. Repeat sub-steps 1–3 for each enclosure.

3. Next steps

Perform the following steps to finish the installation of the storage system components:

1. Apply the following torque specifications to the screws installed with the rackmount bracket kit:
   - Use 10 in-lbs on the rear tie-down screws connecting the rear of the chassis to the telescoping rails.
   - Use 20 in-lbs for the remainder of the screws installed with the rackmount bracket kit.
2. Install the disk drives into the drawers as described in the Setup Guide.
3. Install the enclosure bezel as described in the Setup Guide.



When the enclosure is in operation, the bezel must be attached in order to provide EMI protection for the product.

4. Install any additional options as described in instructions provided with the options.
5. Connect enclosures, power up the system, and connect hosts as described in the Setup Guide.
6. Upon successful completion of the hardware installation, use the storage system's web-based management interface to configure and provision the system.

See Dot Hill's customer resource center (CRC) web site for additional information https://crc.dothill.com.