

**rack
installation
instructions**

hp StorageWorks 1/16 tape SuperLoader



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HP StorageWorks
1/16 Tape SuperLoader Rack Installation Instructions
Second Edition (November 2002)
Part Number: 273558-002



Warnings and Cautions



WARNING: Before you begin, make sure that the rack is sufficiently stable. If provided, lower the rack leveler feet and make sure any required stabilizers are installed. If provided, extend the rack anti-tip device. Failure to extend the anti-tip device could result in personal injury or damage to the tape SuperLoader if the rack tips over.



CAUTION: To prevent damage to the tapes and the tape drives, position the SuperLoader so that no cooling vents are located directly in front of the unit; this helps minimize the amount of foreign debris entering the tape path.



CAUTION: Do not remove the top cover of the SuperLoader during the installation process. Removing the top cover could result in damage to the SuperLoader. It also causes the SuperLoader chassis to bow and prevents correct installation.

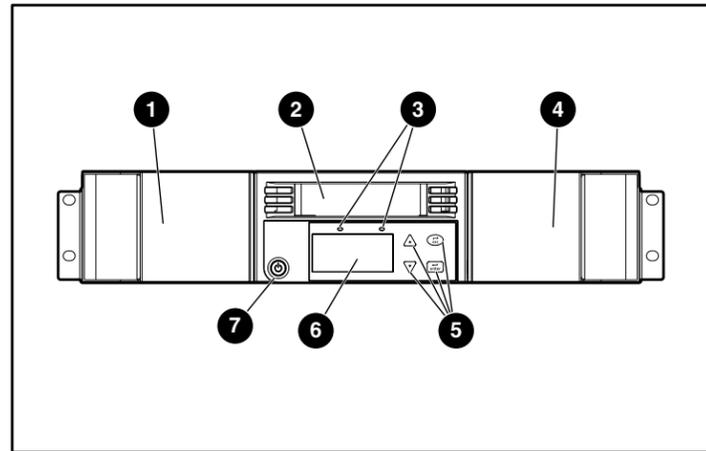


CAUTION: Make sure that the rack and all equipment mounted in the rack have a reliable ground connection. Verify that the total current of the rack components does not exceed the current rating of the power distribution unit or outlet receptacles.



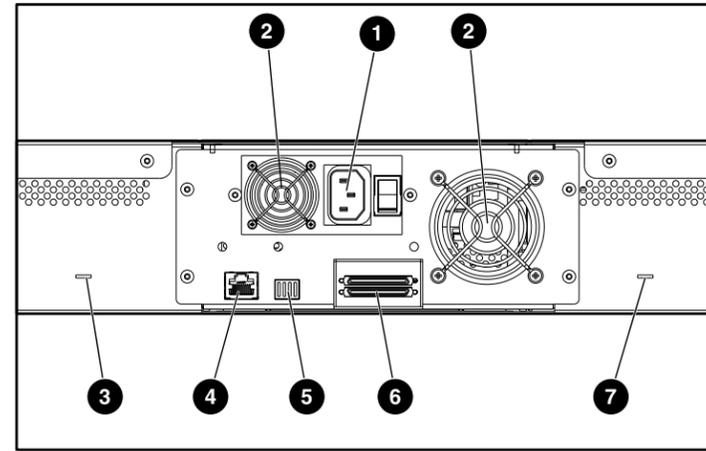
CAUTION: The SuperLoader ships with one magazine and one magazine blank installed. The magazine blank is not locked into position. Do not use the magazine blank handle when installing the SuperLoader into the rack.

Front View



- 1 Left magazine
- 2 Mail slot
- 3 Status LEDs
- 4 Right magazine
- 5 Function keys
- 6 LCD
- 7 On/Off button

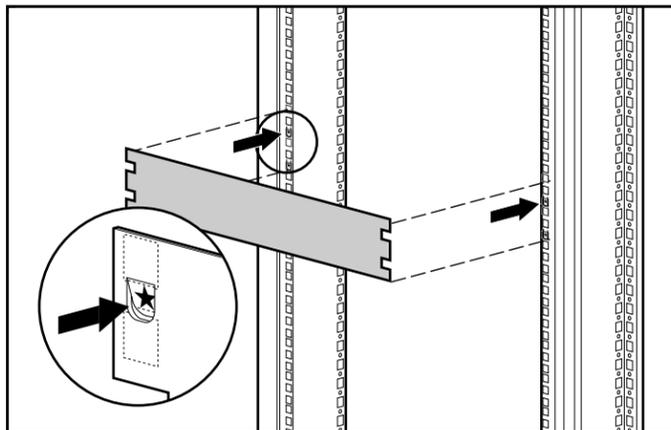
Rear View



- 1 AC power plug
- 2 Fan
- 3 Manual tape eject slot
- 4 Ethernet connector
- 5 Manufacturing switch
- 6 SCSI connectors
- 7 Manual tape eject slot

1 Measuring with the Template

Use the template that shipped with the library to mark the location of the clip nuts and mounting hardware on the mounting rails of the rack.

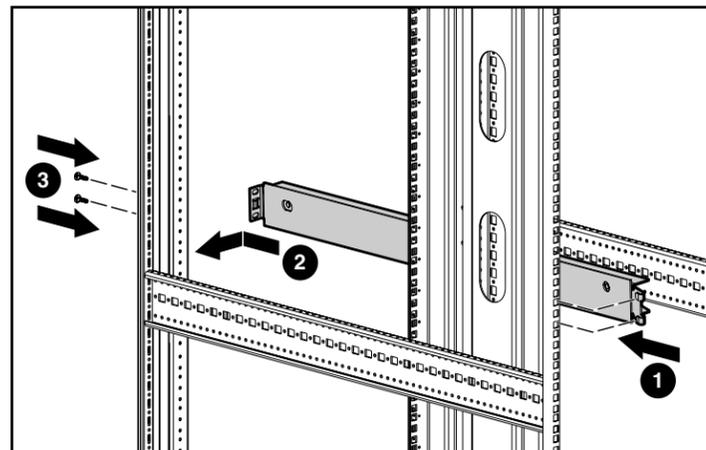


1. Install two clip nuts into each front rail of the rack in the hole locations marked using the template.
2. Install two clip nuts into each back rail of the rack in the hole locations marked using the template.

2 Installing Optional Rails

If there are no devices installed below the SuperLoader, use the optional installation rails to help support the SuperLoader during installation. Otherwise, proceed to step 3.

1. Install four clip nuts at the front of the rack, two on each rail. Install the first clip nuts two holes below the bottom SuperLoader clip nut. Install the second clip nuts two holes below the first clip nuts.
2. Insert one optional mounting rail into the rack with the support ledge facing in.

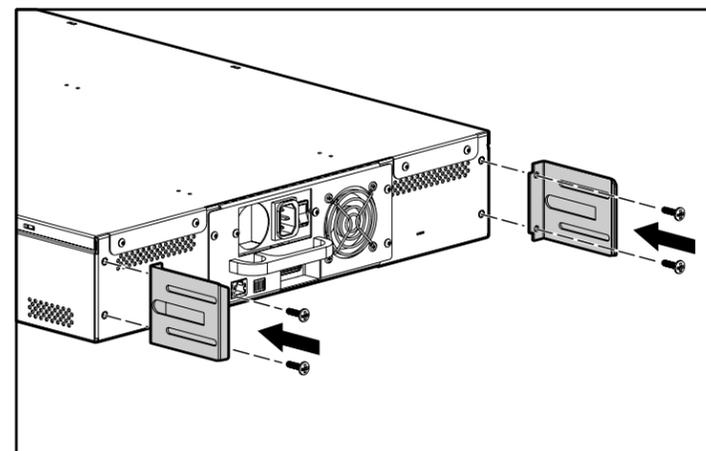


3. Hook the curved tabs around the rear rail of the rack 1.
4. Align the rail so that the holes are over the previously installed clip nuts 2.
5. Secure with two screws 3.
6. Attach the other optional mounting rail using steps 2 through 5.

3 Attaching the Support Brackets

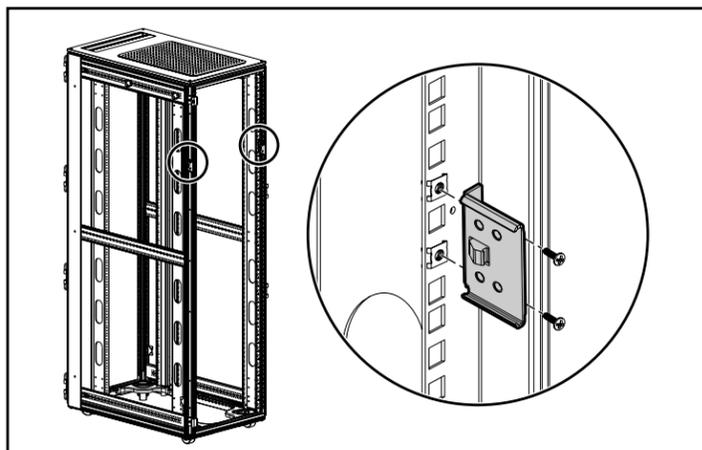
Attach the two support brackets to the rear of the SuperLoader, tightening the screws until snug.

IMPORTANT: Be sure the support brackets are aligned straight with the sides of the SuperLoader for proper installation into the U-channel brackets.



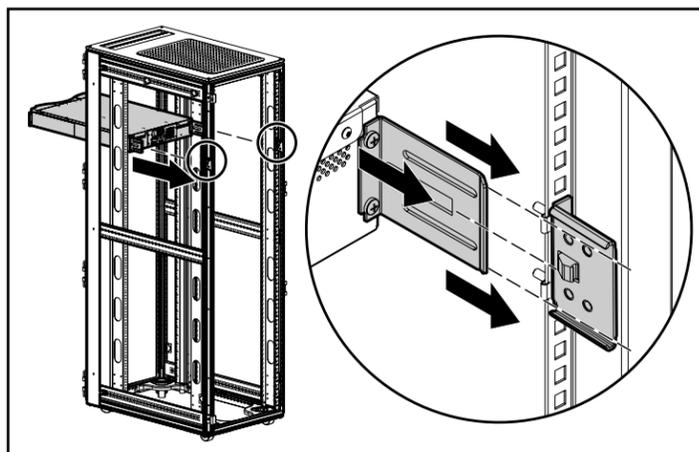
4 Attaching the U-channel Brackets

Attach one U-channel bracket to each rear rail of the rack, loosely installing the screws through the clipnuts. (Attach the side of the bracket with only two holes.) Do not tighten the screws yet.



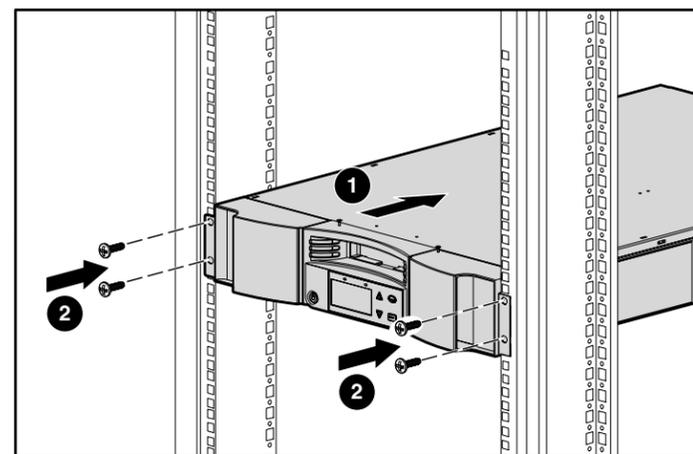
5 Inserting the SuperLoader

Position the SuperLoader in the rack so that each support bracket rests on a U-channel bracket. Each support bracket slides along the lip of the U-channel bracket.



6 Securing the SuperLoader

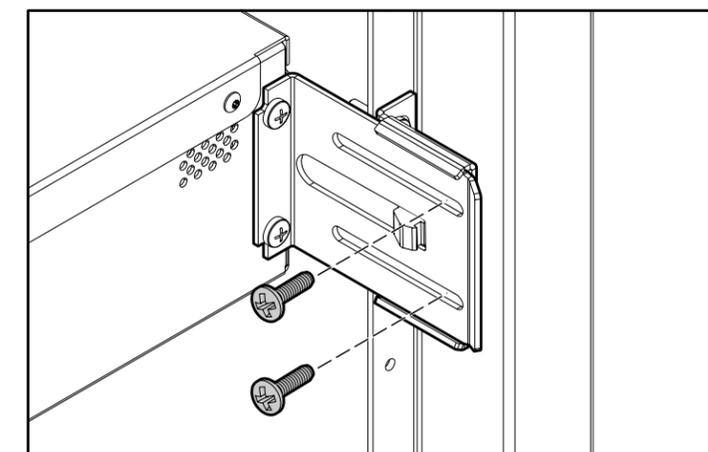
- Slide the SuperLoader in place ❶ so that:
 - The mounting studs on the front ears of the SuperLoader slide into the holes between the clip nuts.
 - The front ears of the SuperLoader align with the front clip nuts.
 - The rear support brackets engage the locking tab on the U-channel brackets.



- Loosely install a screw in each front clip nut to attach the ears ❷.
- Verify that the SuperLoader is level. Adjust as needed.
- Tighten the four screws that attach the ears to the front clip nuts.
- Tighten the four screws that connect the U-channel brackets to the rear clip nuts.

7 Connecting the Support Brackets

Install and tighten the four screws that connect the support brackets to the U-channel brackets.



If additional options are going to be installed, remove the optional installation rails:

- Remove the two screws securing each rail to the front of the rack.
- Pull the rail forward and down, then push back to release the rear tabs.
- Remove the rail from the rack.



CAUTION: To avoid personal injury or damage to the equipment, be sure that the optional installation rails or other properly installed rack options are in place below the SuperLoader at all times.

NOTE: Be sure to save the optional installation rails in a safe place for use if the SuperLoader needs to be moved.

8 Cabling the SuperLoader

The SCSI connection lets the host computer communicate with the SuperLoader.

NOTE: You must have already installed a SCSI host adapter card in the host computer.

Before your start, make sure that your cable is long enough to reach from the SuperLoader to the host computer.

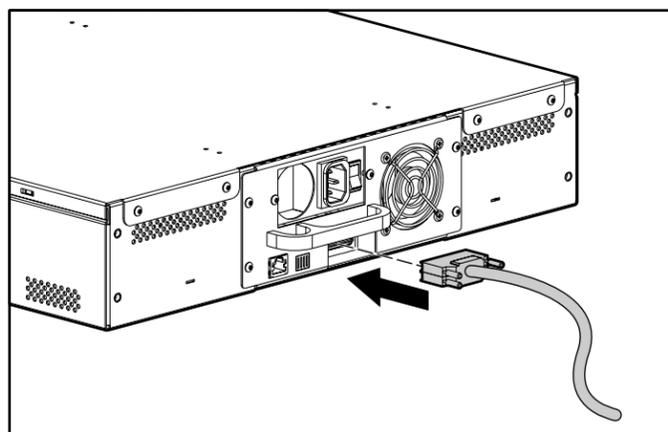


CAUTION: When installing cables, be careful not to damage the SCSI pins on the connectors. Damaged pins will cause the connection to fail.

To make the SCSI connection:

- If the host computer is connected to a network, check with the system administrator before turning off power.
- Properly power off all peripheral devices connected to the host computer.
- Power off the host computer.
- Install the supplied 68-pin 6 foot (1.83 meter) SCSI cable to the double-stacked SCSI connector that is on the back of the DCA and tighten the screws. You can install the SCSI cable in either port.

NOTE: Two SCSI cables are supplied. Use the appropriate cable that matches your host connector.



NOTE: The connector on the end of the cable is offset. Make sure that you install it with the correct orientation so that you can fit a terminator or another cable in the other port.

- If the SuperLoader will be the last device on the SCSI bus, install the supplied SCSI terminator to the remaining port that is on the DCA and then tighten the screws.
- Attach the other end of the SCSI cable to the SCSI host adapter card using the appropriate cable.
- Power on any peripheral devices you powered off in step 2.

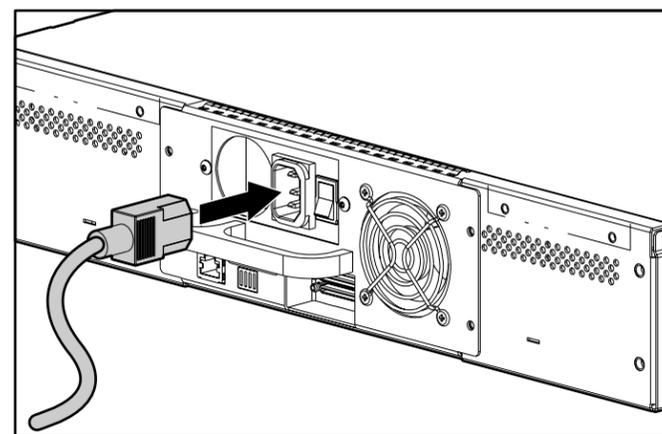
NOTE: Do not power on the host computer at this time. You must first configure the SuperLoader.

If you are not daisy-chaining with an additional SuperLoader, you must install a terminator on the remaining SCSI connector.

9 Powering the SuperLoader

A power cord was supplied with your SuperLoader. Carefully inspect it and make sure that it is the correct one for your country or region. If the supplied power cord is not correct, contact your customer service representative. To connect the power cord:

- Make sure that the power switch on the back of the SuperLoader is off (the 0 is pressed).
- Connect the female end of the power cord to the power connector on the back of the SuperLoader.



- Plug the male end of the power cord into the power source.

NOTE: Do not power on the host before powering on the SuperLoader.

- Push the power switch that is on the back of the SuperLoader to the on position (the 1 is pressed).

Product Documentation

HP StorageWorks 1/16 Tape SuperLoader Reference Guide

This document provides information about the 1/16 tape SuperLoader, including system installation and configuration, operation, maintenance and troubleshooting instructions, and specifications.

HP StorageWorks 1/16 Tape SuperLoader Rack Mount Template

This template serves as a tool to quickly measure and mark a rack for proper installation of a 1/16 tape SuperLoader.

HP StorageWorks 1/16 Tape SuperLoader Documentation CD

CD containing electronic versions of all 1/16 tape SuperLoader product documentation in English, French, Italian, German, Spanish, Dutch, and Japanese.

HP StorageWorks 1/16 Tape SuperLoader Overview and Installation

This document contains product overview information and quick installation instructions for experienced installers.

World Wide Warranty

This document contains information about the warranty for your SuperLoader.

Important Safety Information Booklet

This document contains information about common sense precautions necessary when working with equipment powered at wall receptacle service levels.