



Scalar 50 Quick Start Guide

Introduction

The Scalar 50 tape library is an automated storage and retrieval device consisting of up to two full height tape drives or four half height tape drives and up to 32 SDLT cartridges or 38 LTO tape cartridges (see [figure 1](#)).

This instruction uses the following conventions:

Note: Notes emphasize important information related to the main topic.

Caution: Cautions indicate potential hazards to equipment and are included to prevent damage to equipment.

Warning: Warnings indicate potential hazards to personal safety and are included to prevent injury.

This document explains how to unpack the Scalar 50 tape library and install it in a standard 19 in. rack. Once the library is unpacked and installed, set up the library using the instructions in the *Scalar 50 User's Guide* PN 81-81768. **This installation procedure will take approximately 4 hours to complete.**

Note: It is recommended to review the entire document prior to beginning the installation.

Note: If you have purchased a Quantum Scalar 50 with full slot capacity, you must complete the following procedure to enable full slot capacity. The COD website URL is:
www.quantum.com/capacity/scalar50.

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Figure 1 Scalar 50 Tape Library



Choosing a Location

When choosing an installation site for the Scalar 50, consider the following requirements:

- [Rack Space Requirements](#)
- [Environmental Conditions](#)

Rack Space Requirements

[Table 1](#) contains the rack requirements for the Scalar 50 tape library.

Table 1 Rack Requirements

Dimensions	Scalar 50
Depth	31 in (78.7 cm)
Width	19 in (48.3 cm)
Height	6.75 in (17 cm), 4U
Weight	52 lbs (23.6 kg)
Air Clearance	Open 4 in (10 cm) behind unit for proper air flow

Environmental Conditions

The installation site must have the following environmental conditions:

- Humidity: 20%-80% non-condensing
- Temperature: 10°C-35°C (50°F-95°F)
- Altitude: -500 to 10,000 feet (-152 to 3048 meters)

These environmental conditions apply when the Scalar 50 tape library is in operation.

Note: For additional specifications, refer to the *Quantum Scalar 50 Series User's Guide* (PN 81-81768)

Preparing for the Installation

Before you begin the installation procedure in this section, make the following preparations as described in this section:

- [Providing Necessary Tools](#)
- [Taking ESD Precautions](#)

Providing Necessary Tools

Provide the following tools for unpacking and installing the Scalar 50 tape library:

- #1 Phillips screwdriver
- #2 Phillips screwdriver
- #1 flat blade screwdriver
- Allen wrench (2.5mm and 3mm) included in accessory kit
- Antistatic wrist strap included in accessory kit

Taking ESD Precautions

Some components within the Scalar 50 tape library contain static-sensitive parts. To avoid damaging these parts while performing installation procedures, always observe the following precautions:

- Keep the Scalar 50 turned off during all installation procedures.
- Use an antistatic wrist strap (included in the accessory kit).
- Keep static-sensitive parts in their original shipping containers until ready for installation. Look for the ESD sticker to identify static sensitive parts.



- Avoid touching connectors and other components.

Note: Dry climates and cold-weather heating environments have lower relative humidity and are more likely to produce static electricity.

Unpacking the Scalar 50 Tape Library

This section explains how to unpack the Scalar 50 tape library and move it to its final installation location.

Note: Inspect the outer library packaging for damage. If there is any damage evident on the library packaging, do not continue with the installation and contact Quantum customer support.

By following these instructions, you help ensure that the system will continue to be safeguarded after it arrives at the installation site.

Note: Unpack the library as close to the installation location as possible.

Unpack and remove the following components from the packing materials (see [figure 2](#)):

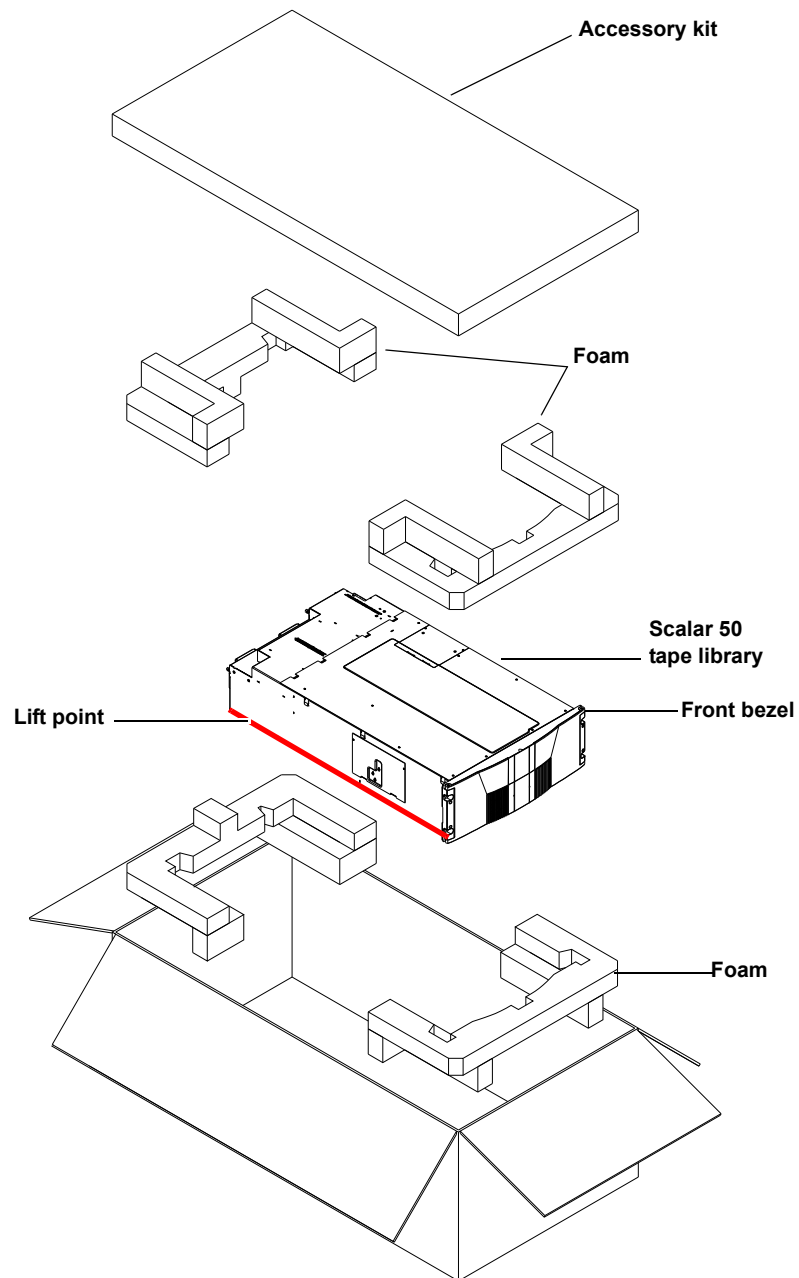
- 1 Remove the accessories kit and set it aside. The accessories kit contains all of the parts necessary for installing the Scalar 50 in a rack..

Warning: At least two people are required to move the library chassis.

Caution: Lift the library chassis at the sides. Avoid putting the weight of the library chassis on the front bezel.

- 2 With the help of a second person, lift the library chassis up and out of the shipping carton.
- 3 Place the library on a table approximately waist high.

Figure 2 Unpacking the Scalar 50



- 4** Remove the antistatic sheet:
 - a** Cut the tape strips securing the sheet.
 - b** Fold the sheet down.
 - c** With the help of a second person, lift the library up off of the antistatic sheet.
 - d** Place the library Scalar 50 the table or desk next to the antistatic sheet.
 - e** If this is a multiple library stack, see [Multiple Library Stacks](#) on page 35 before proceeding.

The Scalar 50 is ready to install.

Installing the Library

Installing a Scalar 50 tape library in a rack consists of the following steps:

- [Locating the Mounting Position](#)
- [Installing the Library](#)
- [Initial Configuration](#)

Locating the Mounting Position

The Scalar 50 tape library is designed to fit in a standard 19 inch wide rack.

It is important to the library installation to locate the hole pattern in the rack rails and install clip nuts if required (see [figure 3](#)). The library must be installed at the beginning of the hole pattern to ensure that the library does not interfere with other devices in the rack. See [table 2](#) for information on common rack hole types.

Table 2 Rack Hole Types

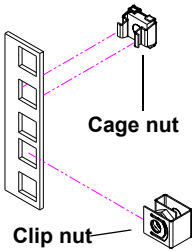
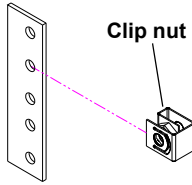
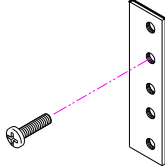
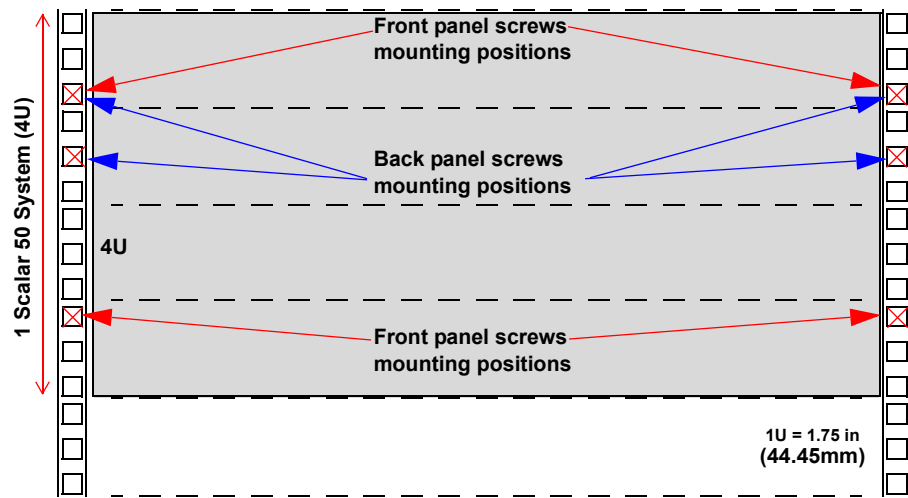
Figure	Description
<p>Note: The rails within the rack have a hole pattern that repeats throughout the rail. X marks the screw positions. Install nut clips (included in the accessory kit) on the rails if necessary.</p>  <p>The diagram shows a vertical rail with square holes. A 'Cage nut' is shown being inserted into a hole from the back. A 'Clip nut' is shown being attached to the side of the rail.</p>	<p>Square rack holes are the most common type of rack holes. They can accept either cage nuts which mount from the back of the rail or clip nuts which clip on from the side of the rack rail.</p>
 <p>The diagram shows a vertical rail with circular through holes. A 'Clip nut' is shown being attached to the side of the rail.</p>	<p>Through holes require clip nuts to accept mounting hardware.</p>
 <p>The diagram shows a vertical rail with threaded holes. A screw is shown being inserted into one of the holes.</p>	<p>Threaded holes require neither cage or clip nuts to accept mounting hardware.</p>

Figure 3 Rail Hole Pattern



The marks above (X) indicate the location of mounting hardware on the rack rails. Ensure that any necessary mounting hardware is installed on the rack rails prior to installing the chassis.

Hole pattern	
Top of rack	
	.312 in (7.92 mm)
	.625 in (15.9 mm)
	.625 in (15.9 mm)
	.5 in (12.7 mm)
	.625 in (15.9 mm)
	.625 in (15.9 mm)
	.5 in (12.7 mm)

Warning: If the rack is empty at the time of installation, do NOT install the Scalar 50 tape library too high in the rack. The weight of the library may cause the rack to become “top heavy” and unstable if installed in the top of an empty rack. Begin installing the Scalar 50 tape library from the bottom of the rack if more than one library is installed.

Installing the Library

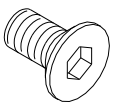
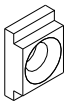
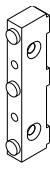
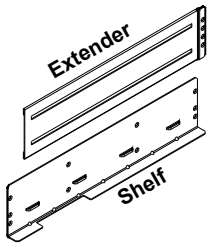
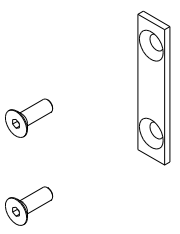
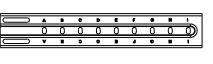
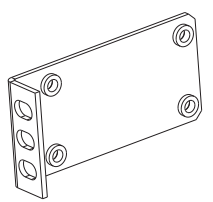
Installing the Scalar 50 tape library consists of the following steps:

Note: If this is an upgrade to an existing library system, see [Multiple Library Stacks](#) on page 35.

- [Installing the Rack Mount Shelves](#)
- [Installing the Library Chassis](#)
- [Cabling the Library](#)

The following table describes the hardware necessary for installing the Scalar 50 in a rack. These parts are located in the accessory kit.

Table 3 Library Mounting Hardware

Qty	Figure	Part Number	Description
16		PN 90-87203-00	Allen head screws (M5 x 10) for shelf assembly
8		PN 74-87575-01	T- nuts (M5)
4 metric and 4 standard		PN 74-88052-01 (metric) PN 74-88053-01 (standard)	Rail adapters (both metric and standard holes are included, 8 total adapters, see figure 6)
2		PN 74-88055-01 (shelf) PN 74-88056-01 (extender)	Right and left support shelves (left shown)
4 sets		PN 74-88054-01 (plate) PN 90-87203-3 (screws)	Front and back rail mounting hardware (M4 x 12 allen screws and mounting plates)
2 sets		PN 74-88057-01 (bracket) PN 74-88058-01 (clamp)	Back bracket hardware (M5 x 8 allen screws and mounting plate)
2 sets		PN 90-87343-08 (screws) PN 90-87275-01 (screws)	Back clamp hardware (M5 x 10 and back clamp)

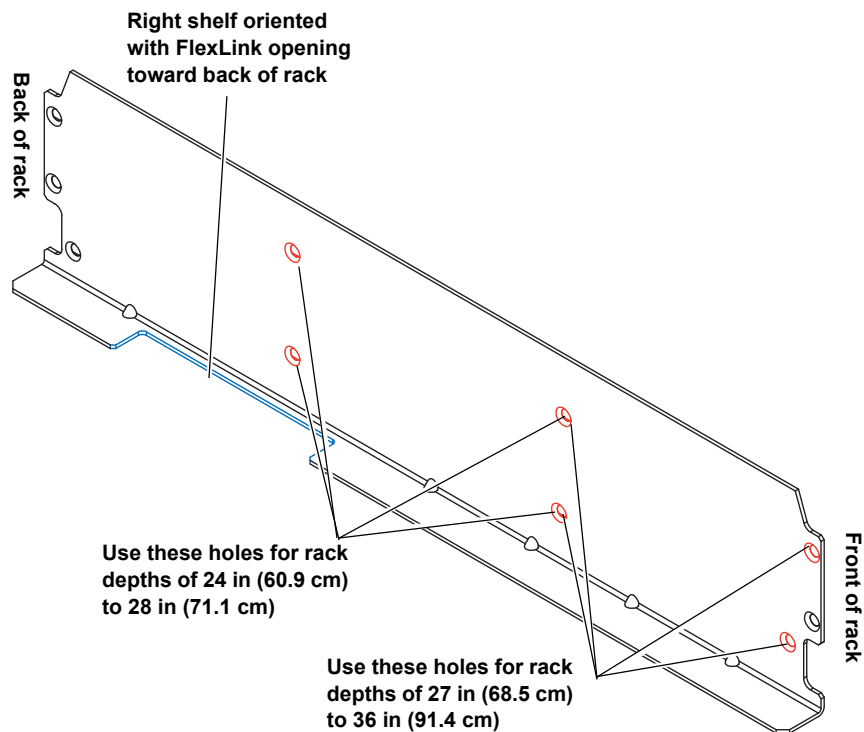
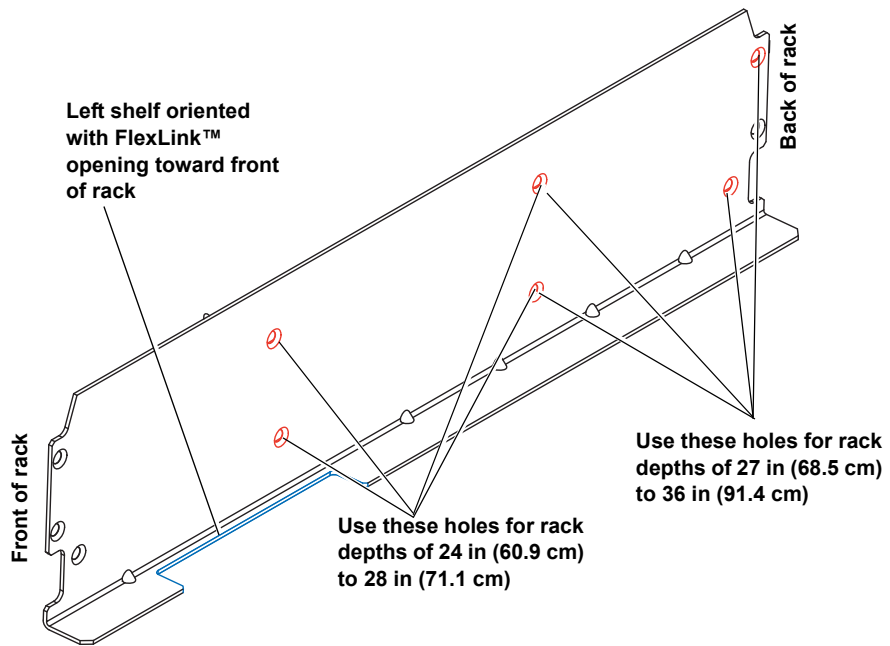
Installing the Rack Mount Shelves

Before installing the rack mount shelves, you must collect the following information:

- Type of rack mount rails (square hole, through hole, or threaded hole)
- Depth of rack (34 in, 86.3 cm minimum depth recommended; however, rack depths of 24 in, 60.9 cm to 36 in, 91.4 cm are supported)

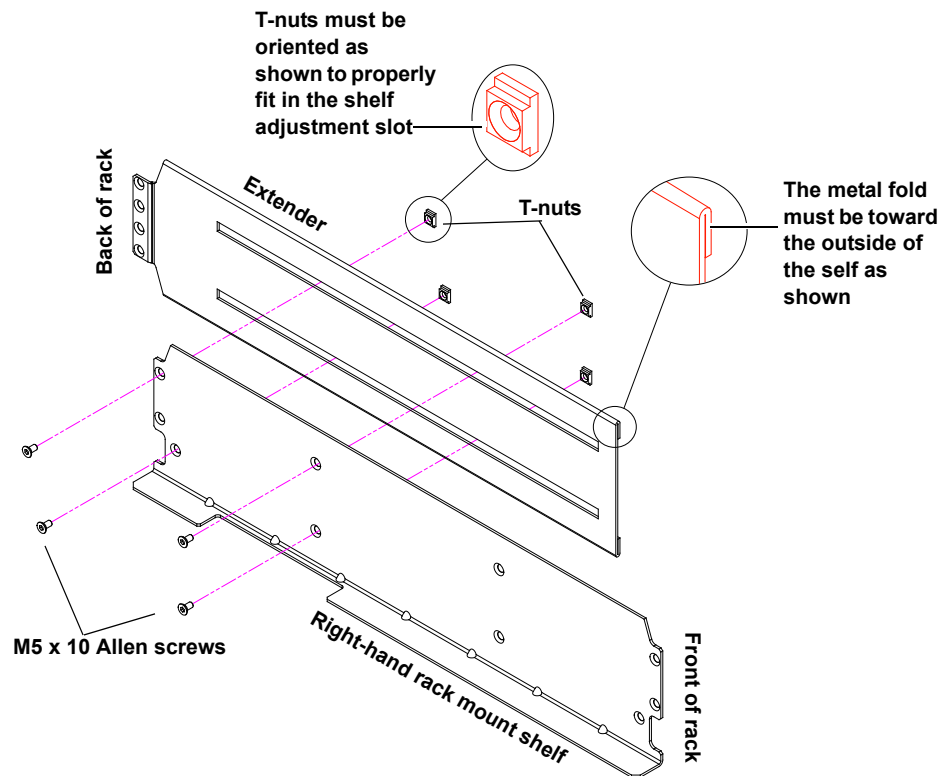
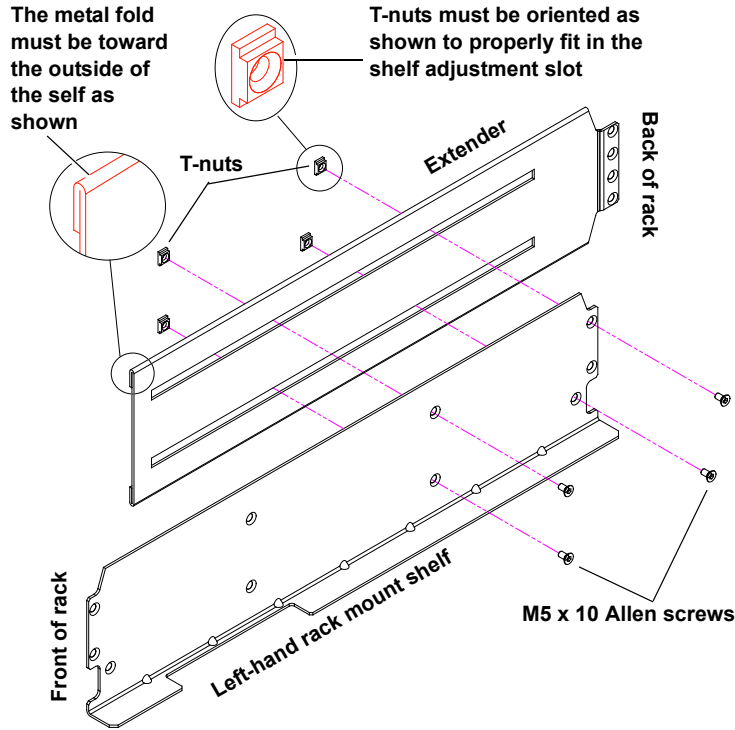
- 1 Assemble the rack mount shelves included in the accessory kit (left and right):
 - a The holes used to attach the two halves of the rack mount shelves differ depending on the depth of the rack (see [figure 4](#)).

Figure 4 Rack Mount Shelf Depth Requirements



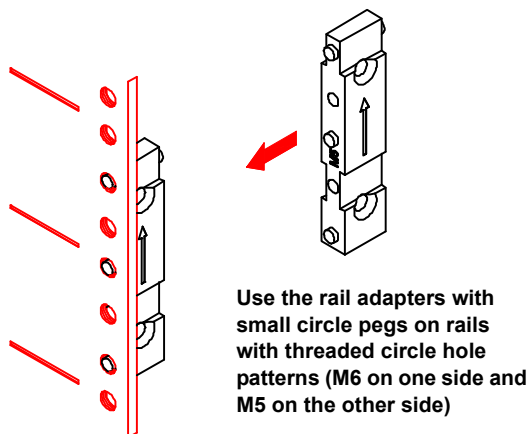
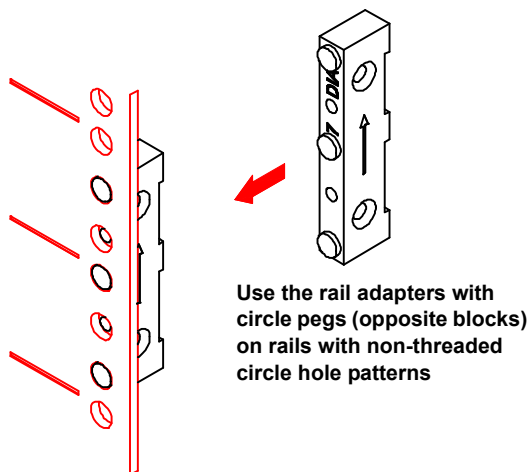
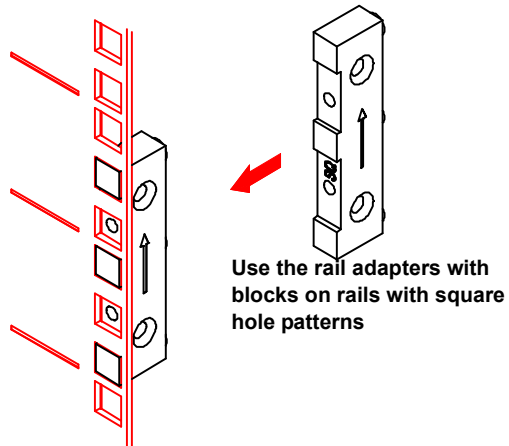
- b Loosely attach the rack mount shelves to the extenders with 4 M5 x 10 Allen screws and T-nuts (see [figure 7](#)).

Figure 5 Assembling the Left and Right Rack Mount Shelves



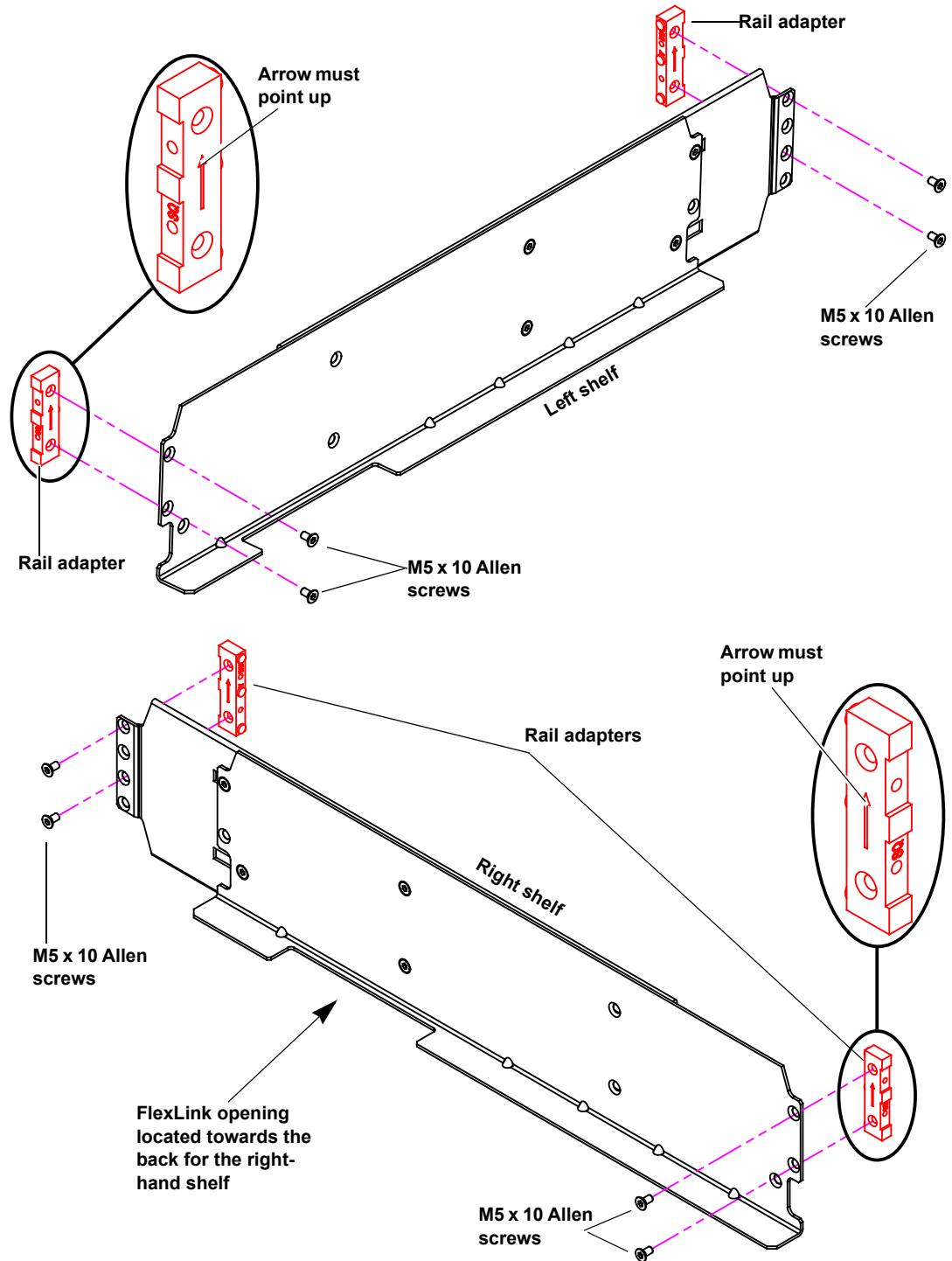
- c Determine the type of rail adapter required for your rack. Each rail adapter is marked with the specific hole type supported, either metric or standard (see [figure 6](#)).

Figure 6 Rail Adapter Types



- d Attach the appropriate rail adapter to the front and back of the rack mount shelves (right and left) with 2 M5 x 10 Allen screws per adapter (see [figure 7](#)).

Figure 7 Assembling the Left-Hand Rack Mount Shelf

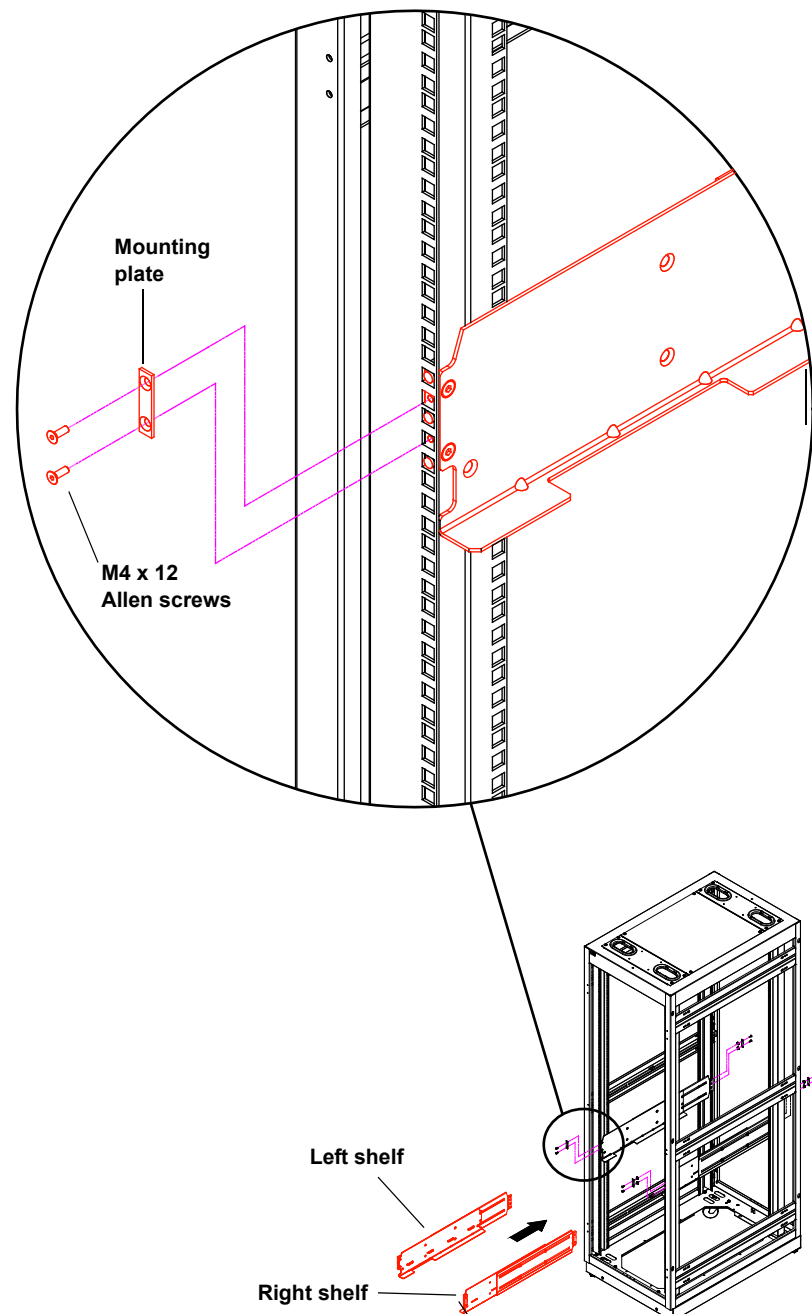


2 Install the left and right rack mount shelves into the rack (the rack mount shelves adjust 27 in. to 36 in.) and secure with the following parts in four locations (see [figure 8](#)):

- Mounting plate
- 2 M4 x 12 Allen screws.

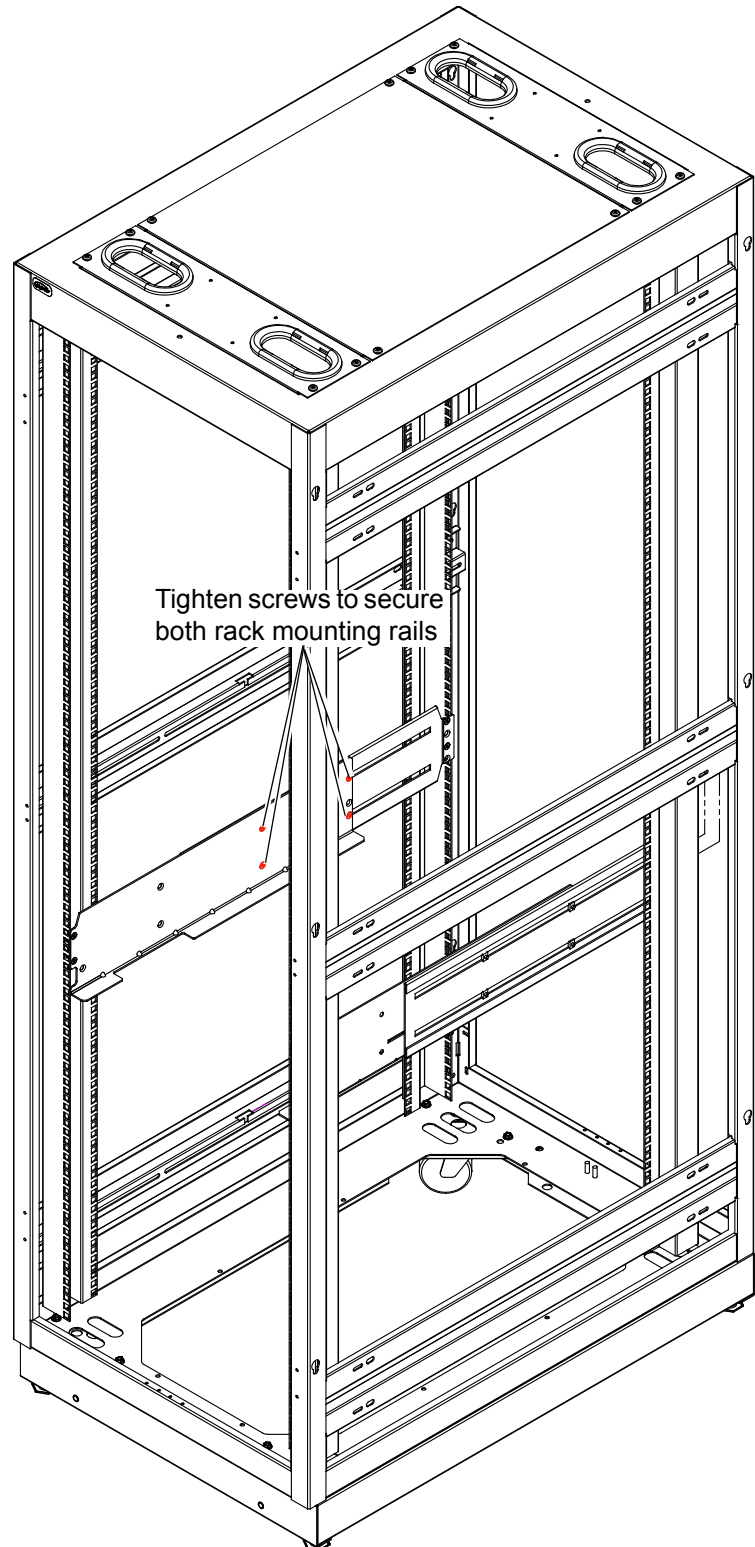
Note: The rack mount shelves must be installed on the inside rack rails.

Figure 8 Installing the Rack Mount Shelves



- 3 Once the rack mount shelves are secured to the rack, tighten the Allen screws securing the adjustable shelves (right and left) together (see [figure 9](#)).

Figure 9 Tightening the Rack Mount Shelves



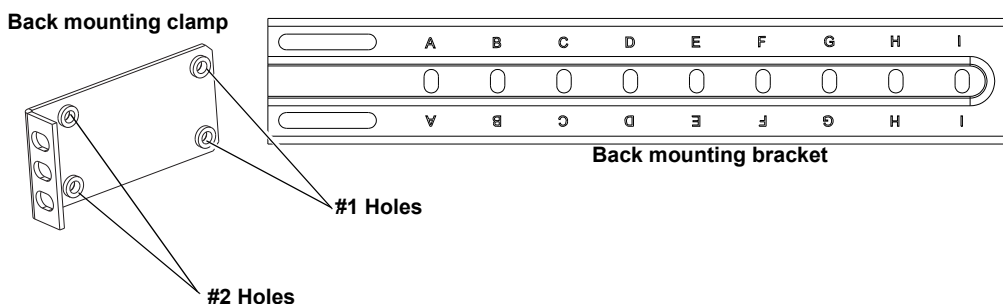
Installing the Library Chassis

Warning: The Scalar 50 tape library weighs approximately 52 lbs (23.6 kg). At least two people are required to lift and install the library.

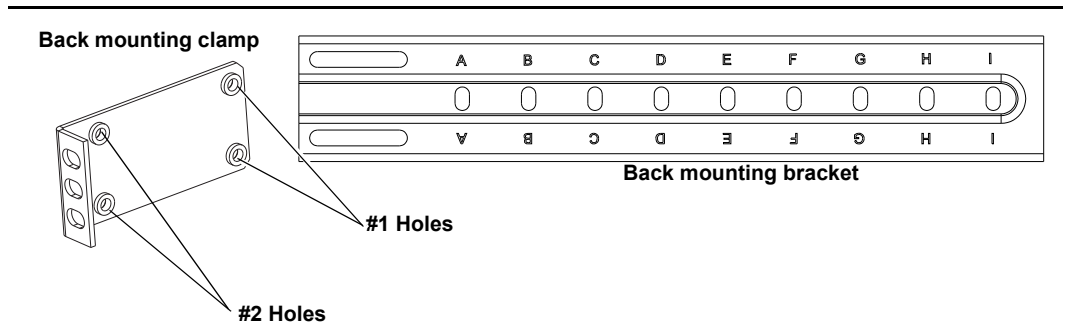
- 1 The back mounting brackets are lettered (A through I) so the correct mounting position is easily determined. The mounting positions differ depending on the depth of the rack (see [table 4](#)).

Note: If the depth of the rack is less than 27 in, do not install the back mounting brackets or clamps.

Table 4 Back Mounting Bracket Orientation



Rack Depth	Back Mounting Bracket (Mounting Position)	Back Mounting Clamp	
		#1 Holes	#2 Holes
24 to 25 in.	Back bracket and clamp not required	N/A	N/A
25 to 26 in.	Back bracket and clamp not required	N/A	N/A
26 to 27 in.	Back bracket and clamp not required	N/A	N/A
27 to 28 in.	Use holes A and C	X	
28 to 29 in.	Use holes B and D	X	
29 to 30 in.	Use holes C and E	X	
30 to 31 in.	Use holes D and F	X	
31 to 32 in.	Use holes E and G	X	
32 to 33 in.	Use holes F and H	X	
33 to 34 in.	Use holes G and I	X	

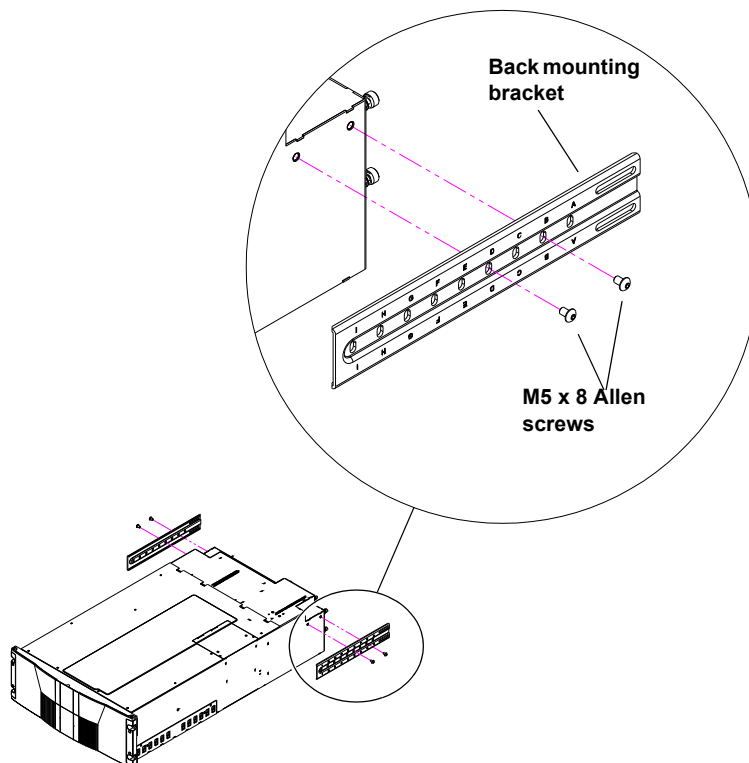


Rack Depth	Back Mounting Bracket (Mounting Position)	Back Mounting Clamp	
		#1 Holes	#2 Holes
34.5 to 35.5 in.	Use holes F and H		X
35.5 to 36.5 in.	Use holes G and I		X

Once the location is determined, attach the back brackets to each side of the library with four M5 x 8 Allen screws (see [figure 10](#)).

Note: If your rack has a depth less than 27 in., the back brackets and back clamps are not used.

Figure 10 Installing the Back Mounting Brackets

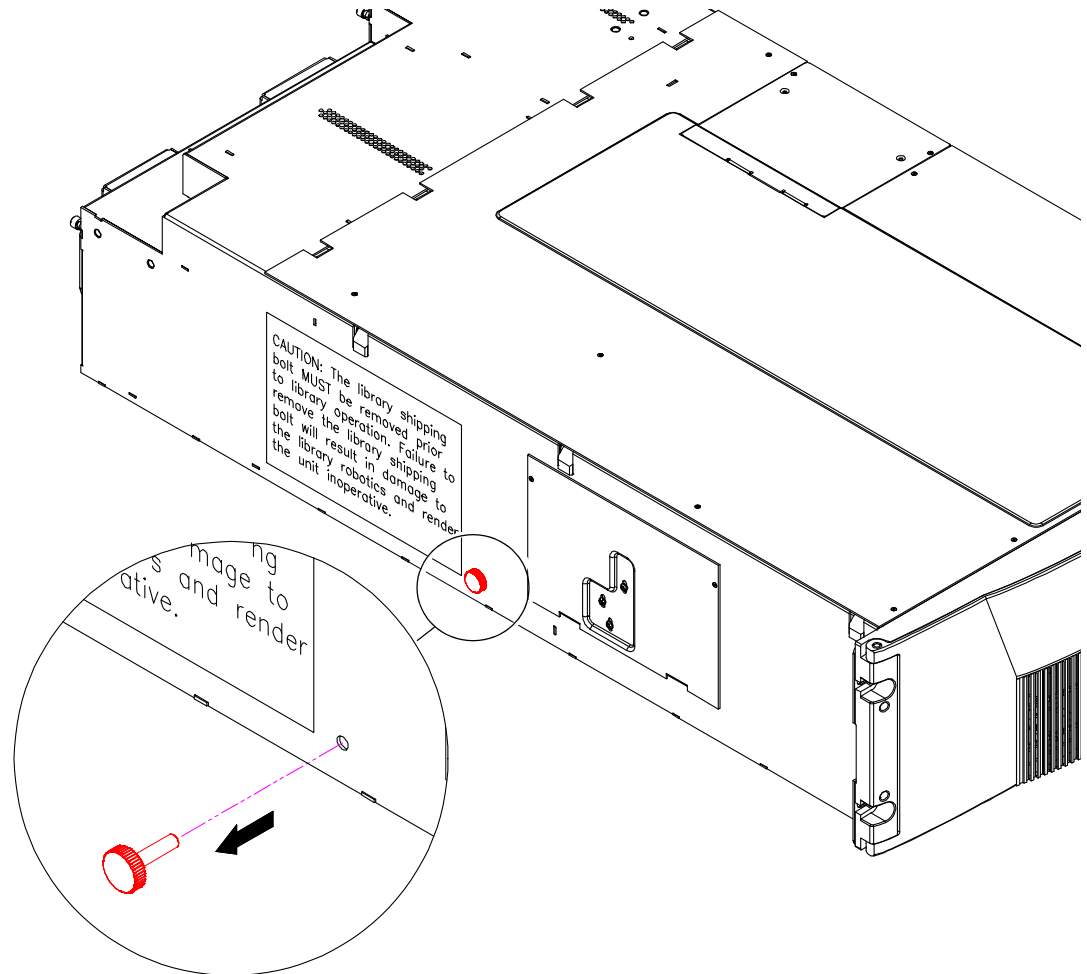


Right-hand back bracket shown.

Note: If this is a multiple stack configuration, see [Multiple Library Stacks](#) on page 35 for information on preparing the library chassis for passing tape cartridges from one unit to another.

- 2 Remove the restraining bolt from the left-hand side of the library (see [figure 11](#)).

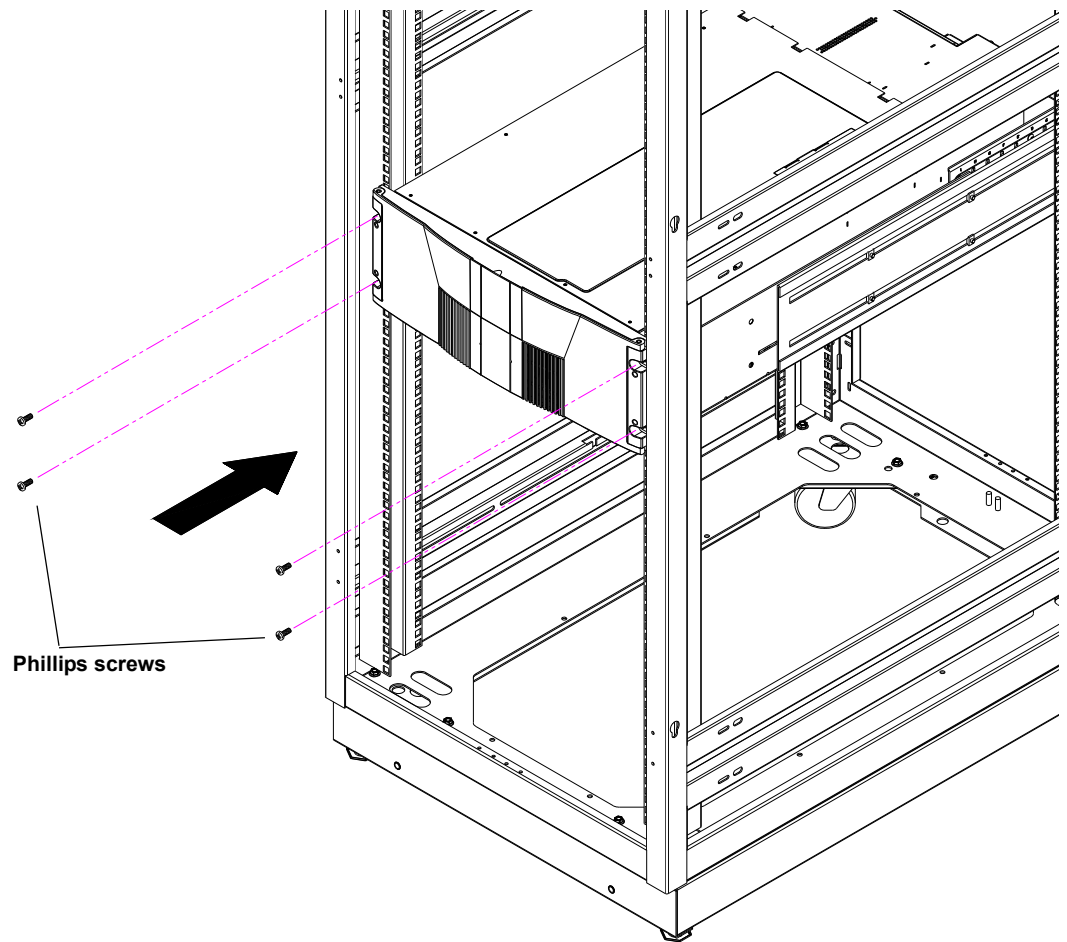
Figure 11 Removing the Restraining Bolt



- 3 Install the library into the rack as shown in [figure 12](#) and secure the library to the rack with four Phillips screws.

Warning: The Scalar 50 tape library weighs approximately 52 lbs (23.6 kg). At least two people are required to lift and install the library.

Figure 12 Installing the Scalar 50 in the Rack

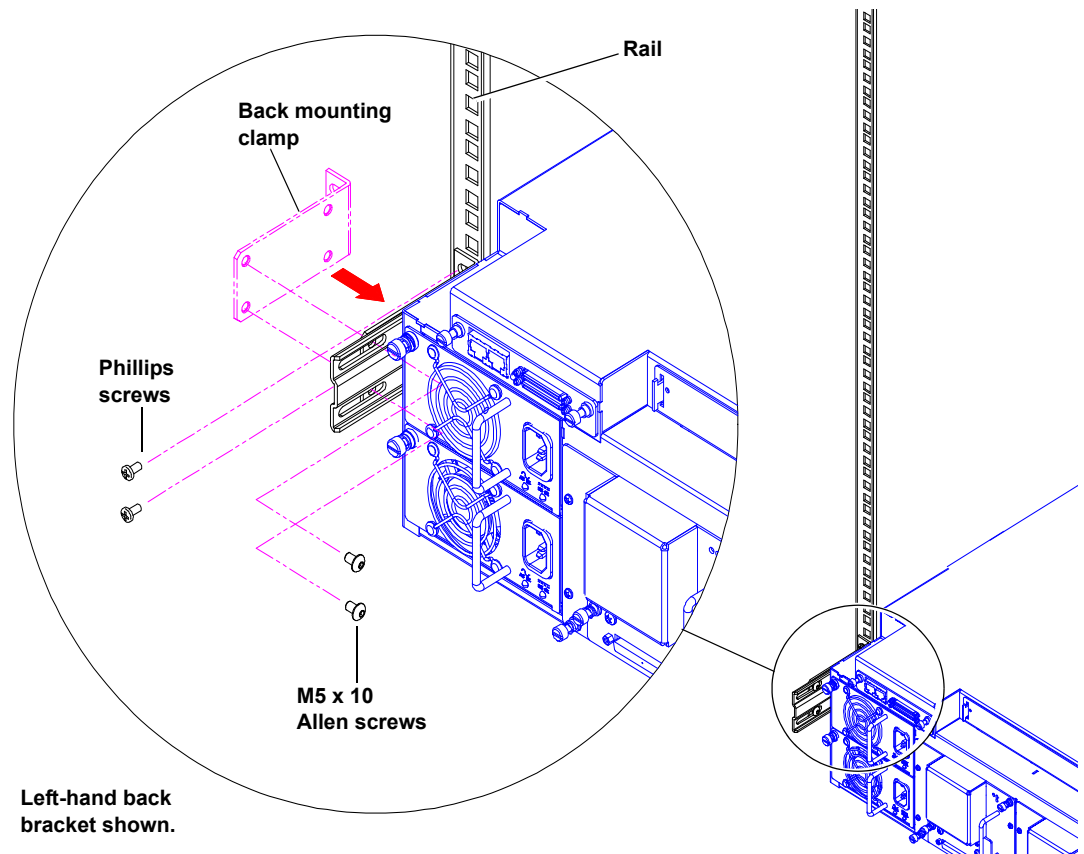


- 4 Secure the back of the library to the rack with two mounting clamps (see [table 4](#) for information on the correct mounting holes to use) and two M5 x 10 Allen screws on each clamp (see [figure 13](#)).

Note: If the depth of the rack is less than 27 in, do not install the back mounting brackets or clamps.

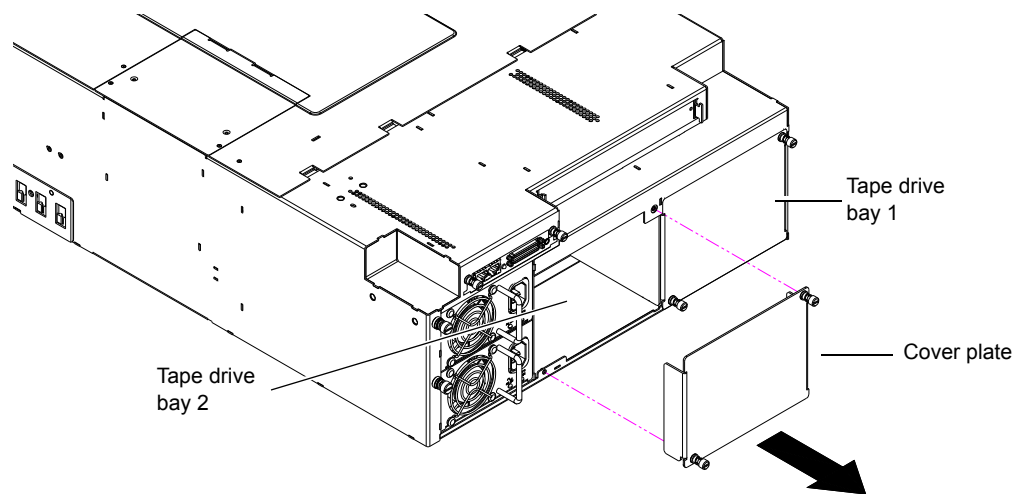
- 5 Secure the mounting clamps to the rack rails with two Phillips screws on each side (see [figure 13](#)).

Figure 13 Securing the Back of the Library



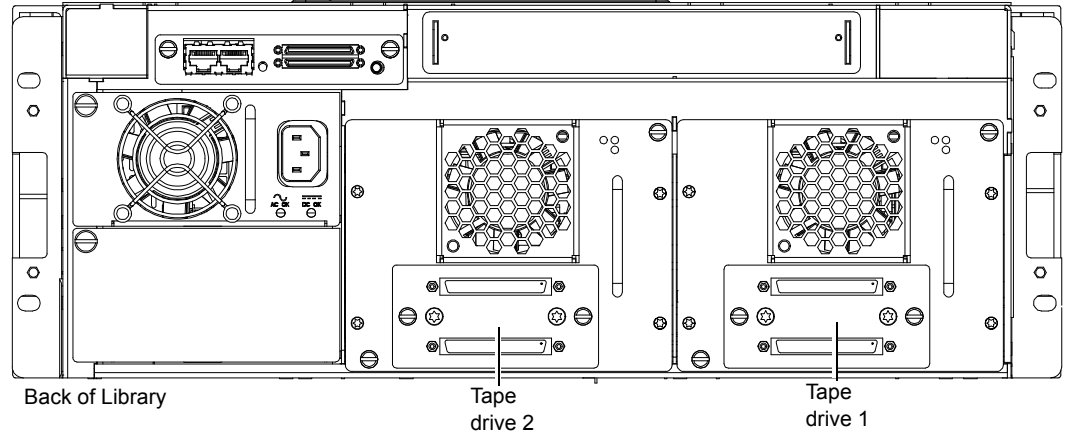
- 6 To install the tape drives into the library:
 - a Remove the tape drive cover plates (if necessary, some libraries ship with one tape drive installed) by loosening the captive screws securing the plate to the library chassis (see [figure 14](#)).

Figure 14 Removing the Tape Drive Cover Plates



- b Insert the tape drive(s) into the drive bay(s) slowly until the connectors are seated. See [figure 15](#) for drive bay numbering (see the *Quantum Scalar 50 Series Tape Drive Installation Instructions* PN 81-81769 for information).

Figure 15 Installing the Tape Drives



- c Tighten the tape drive thumbscrews using a flat blade screwdriver.
- d Repeat these steps to install another tape drive in a different location, if desired.
- The library chassis is installed in the rack.

Cabling the Library

- 1 Connect the following cables and jumpers included in the accessory kit as shown in the following figures:
 - [Figure 16](#) SCSI full height drives
 - [Figure 17](#) Native Fibre Channel full height drives
 - [Figure 18](#) SCSI half-height drives
 - [Figure 19](#) Native Fibre Channel half-height drives
 - [Figure 20](#) Stacked Library Configuration

Note: Quantum ships sufficient SCSI cables and terminators with the libraries to set up two-drives per SCSI bus. One tape drive per SCSI bus may be necessary for optimum performance. Refer to your tape drive documentation.

Note: SCSI cable lengths should not exceed:

- 39.37 feet (12 meters) between the host and the library for single drive per bus installations.

Figure 16 Scalar 50 Cable Configuration (SCSI Full Height Drives)

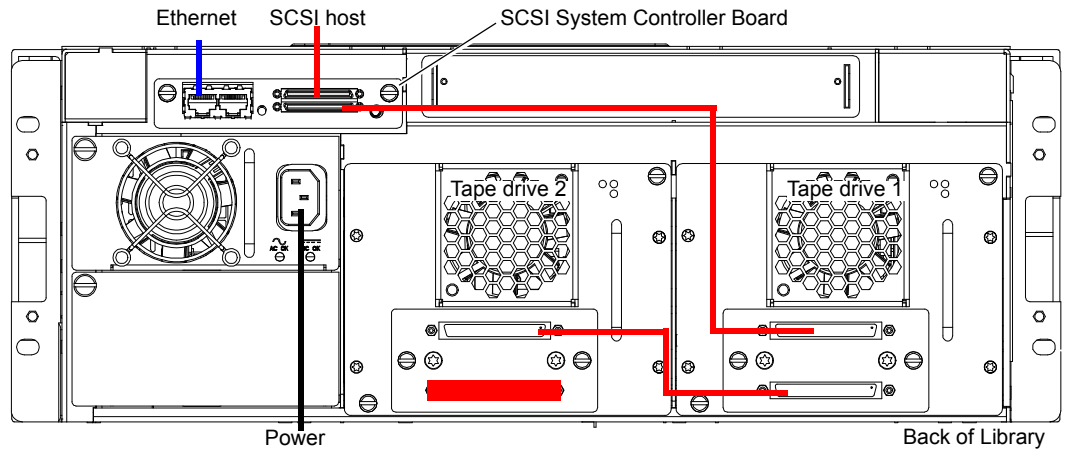


Figure 17 Scalar 50 Cable Configuration (Native Fibre Channel Full Height Drives)

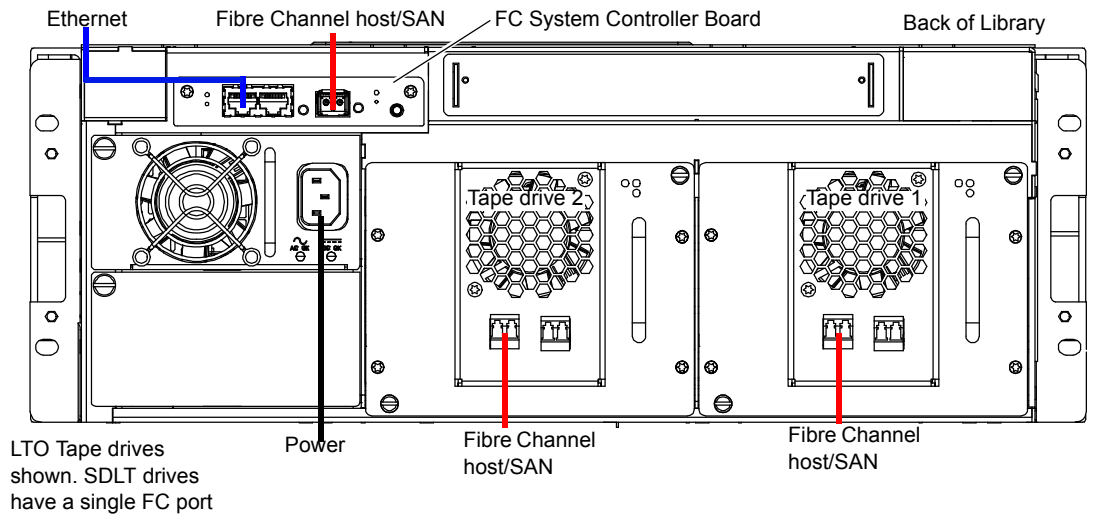


Figure 18 Scalar 50 Cable Configuration (SCSI Half-Height Drives)

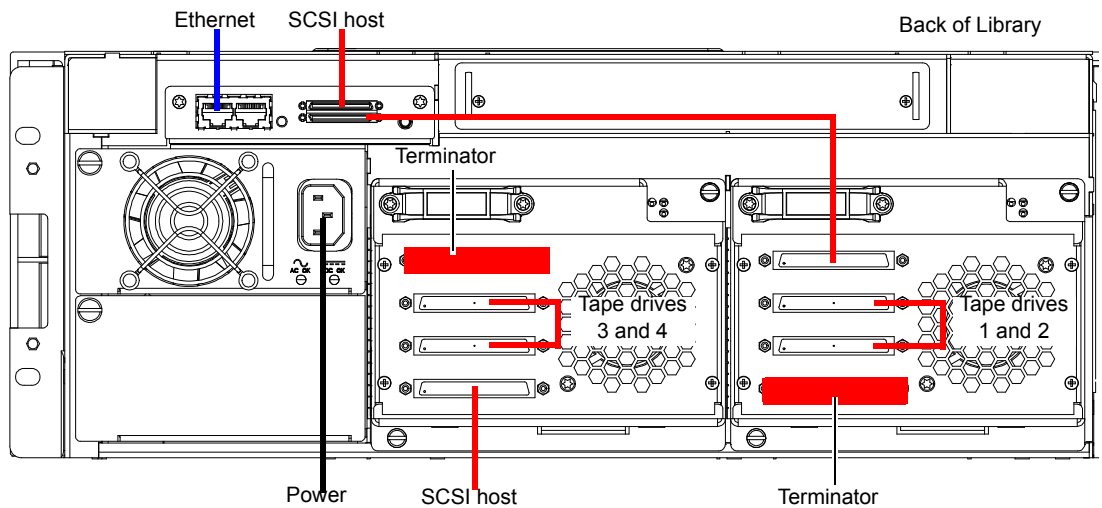


Figure 19 Scalar 50 Cable Configuration (Native Fibre Channel Half-Height Drives)

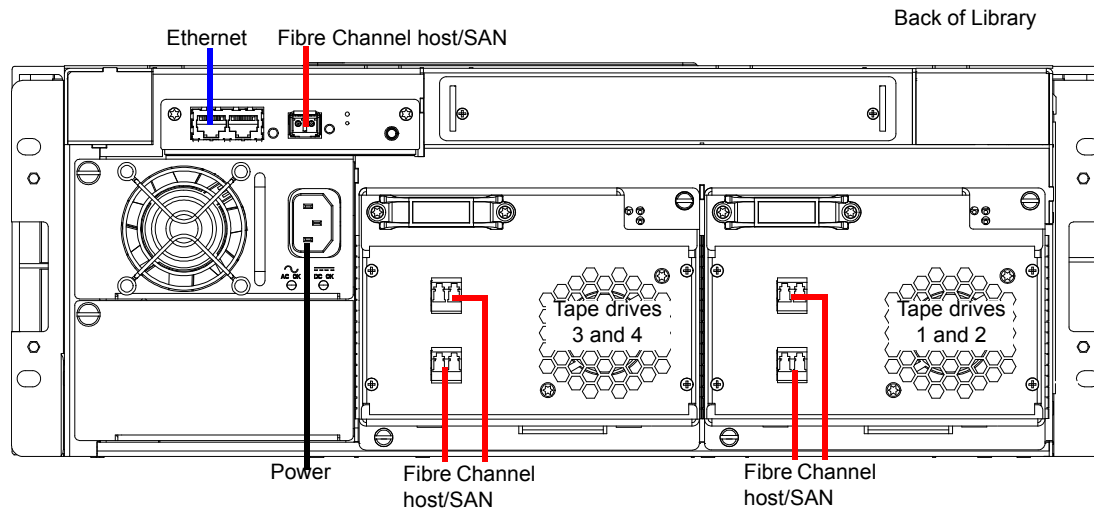
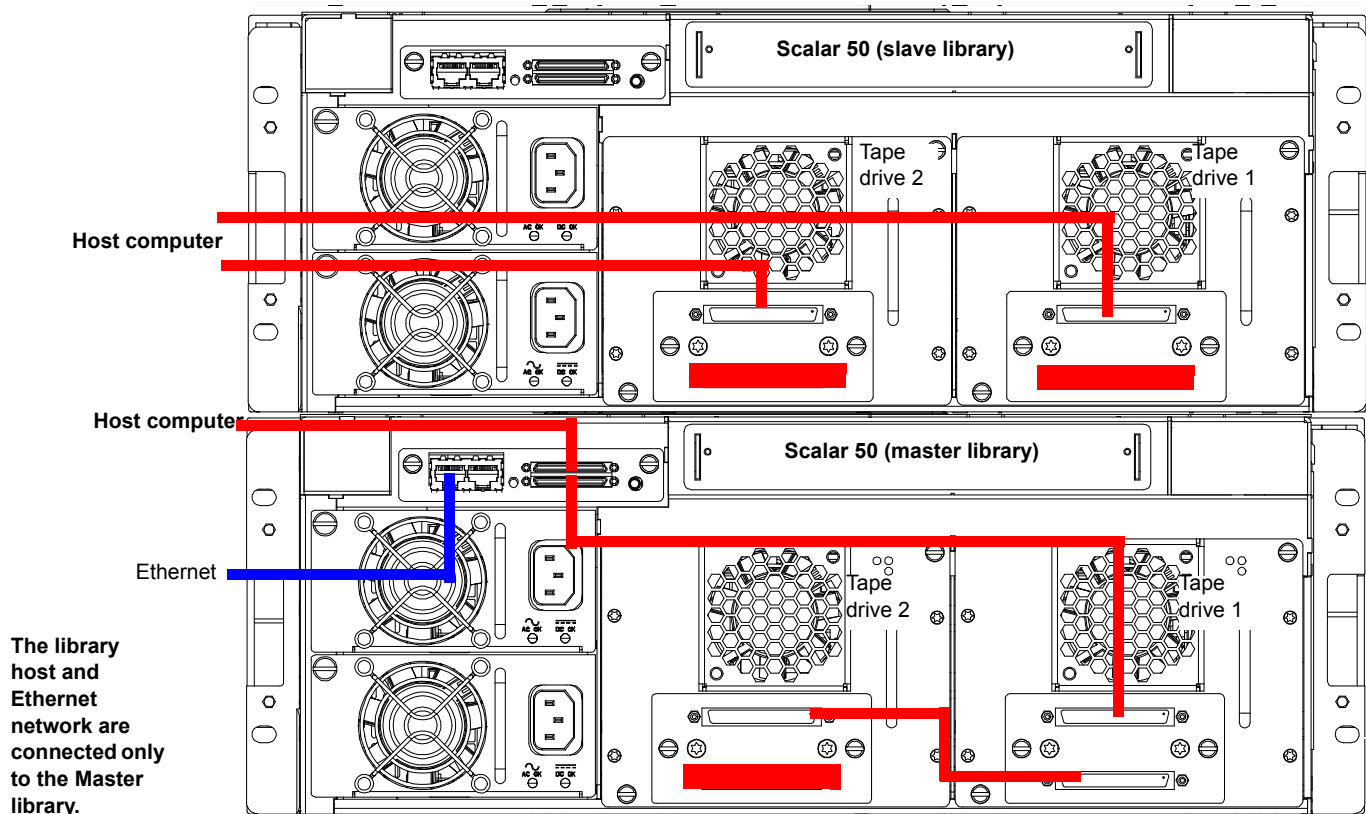


Figure 20 Scalar 50 Cable Configuration (Stacked)



- 2 Connect one end of an AC power cable to each installed power supply and to a wall outlet.

Initial Configuration

Initially configuring the library consists of the following steps:

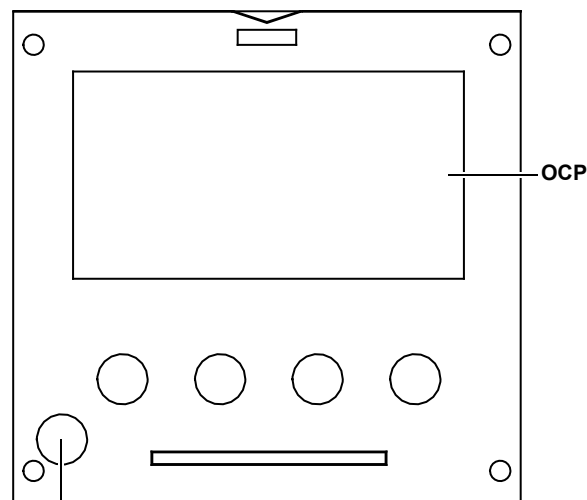
- [Turning on the Library](#)
- [Removing the Remaining Packing Materials](#)
- [Setting the Library Options](#)
- [Setting the Date and Time](#)
- [Setting Network Information](#)

Turning on the Library

To turn on the library:

- 1 Verify that:
 - Power cables are firmly in place
 - All doors are closed and latched
- 2 Turn on the library by pushing power button located on the bottom left-hand corner of the OCP (see [figure 21](#)).

Figure 21 Turning on the Library



Power button

The power up sequence can take several minutes. The first message displaying will alert you that a hand restraint was found. Continue with [Removing the Remaining Packing Materials](#)

Removing the Remaining Packing Materials

Now that you have installed the library chassis and powered on the system, you **MUST** remove the hand restraint and restraining bolt from the library chassis before the library is operational.

- 1 Put on an antistatic wrist strap and clip it to the library chassis.

Caution: Take standard ESD precautions when performing this procedure.

- 2 When the library powers on for the first time, the OCP asks you:

“Hand Restraint Found. Please Remove! Starting Shutdown...”

The library waits approximately 30 seconds for you to open the doors and remove both magazines from the library. When you open the doors, the OCP displays a message telling you that the doors are open.

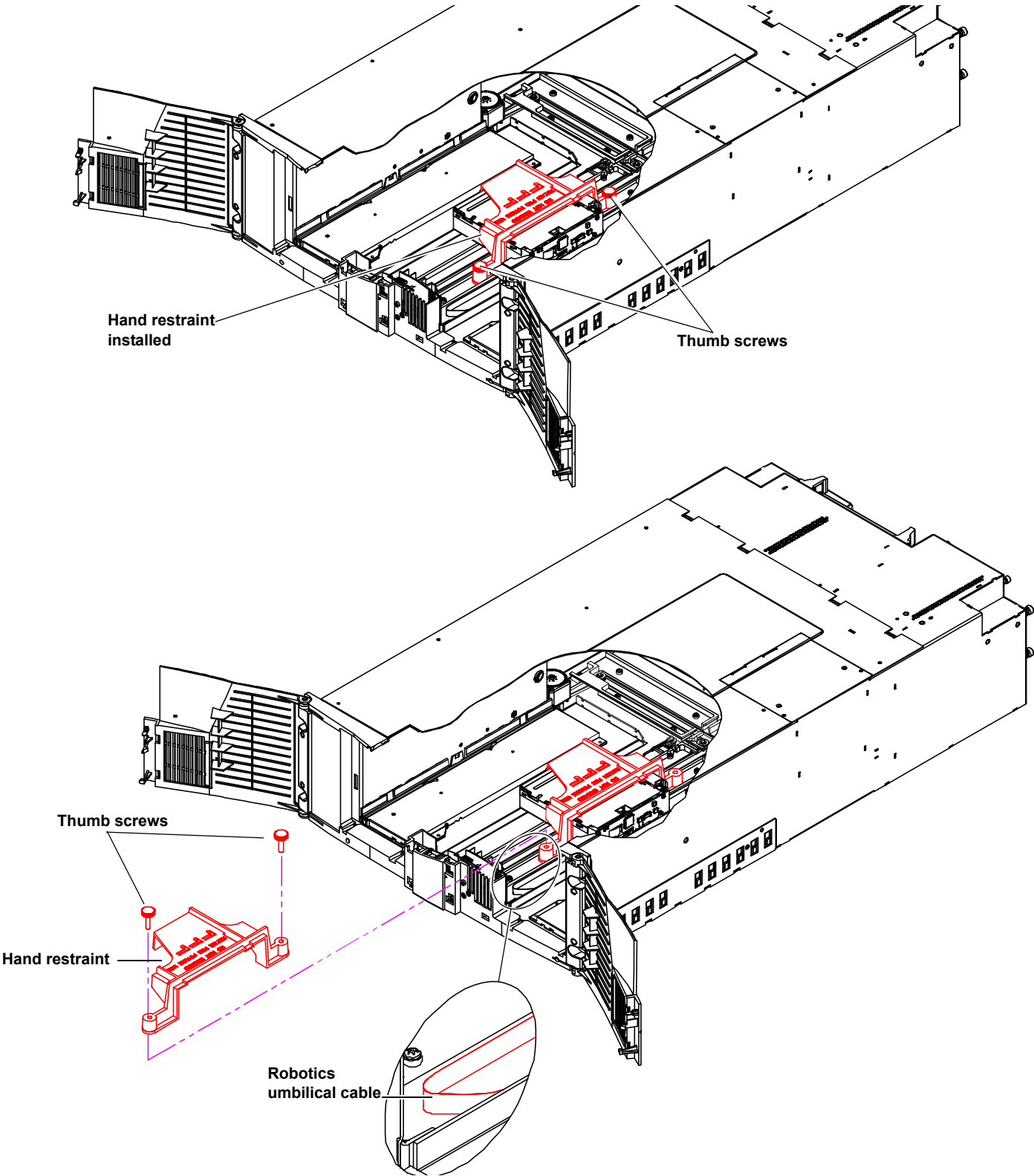
Note: If you are unable to remove the magazines before the library shuts down. Turn on the library power and repeat the steps above.

- 3 After the library has powered down, remove the hand restraint by completing the following steps (see [figure 22](#)):
 - a Remove the two thumb screws securing the hand restraint to the base of the library.
 - b Remove the hand restraint from the library.

Caution: Avoid touching the printed circuit board.

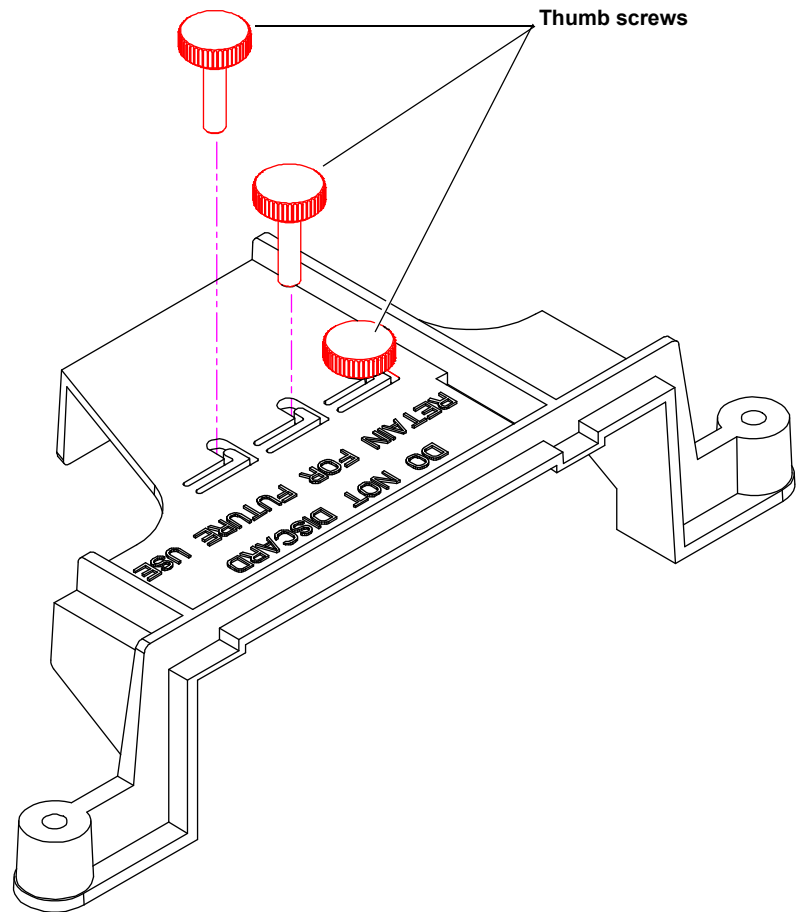
Caution: When removing the hand restraint, ensure that the robotics umbilical cable is lying down in the correct position inside the platform and not across the robotics track.

Figure 22 Removing the Hand Restraint



- c Store the thumb screws and the restraining bolt in the hand restraint (see [figure 23](#)).

Figure 23 Storing the Thumb Screws and Restraining Bolt



Note: Save the hand restraint for later shipping or relocation of the library.

- d Install the tape cartridge magazines.

Note: Refer to the *Scalar 50 User's Guide* (PN 81-81768) for more information on loading the tape cartridge magazines.

- e Close the front doors.

Setting the Library Options

To set the library options:

- 1 Turn on the library by pushing power button located on the bottom left-hand corner of the OCP (see [figure 21](#)).
- 2 The OCP asks you:
“Are the Shipping Restraints Removed?” (YES or NO).
- 3 Press YES to continue.
- 4 The OCP asks again:
“Are you sure the Hand & Thumb Screw Restraints have been Removed?” (YES or NO).
- 5 Press YES to continue. The library continues the boot process. When complete, the Home screen displays.

Note: If the library encounters difficulties during the boot process, there may be obstructions inside the library. The the OCP will display: **“Please Remove Restraining Bolt, or Hand Restraint. See User's Guide.”** Shut down the library, open the doors with the emergency access tool and check for obstructions. Be sure to check for the restraining bolt on the left side of the cabinet (see the *Scalar 50 User's Guide* PN 81-81768 located on the documentation CD for more information).

- 6 Press **Setup** from the Home screen. The OCP displays the **Setup** screen (see [figure 24](#)):

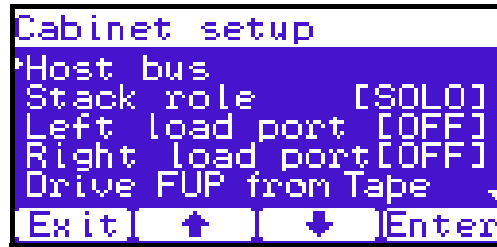
Figure 24 Setup Screen



- 7 From the **Setup** screen, use the up and down arrows to highlight **Cabinet** and press **Enter**.

The **Cabinet Setup** screen displays (see [figure 25](#)):

Figure 25 Cabinet Setup Screen



8 The **Cabinet Setup** screen allows you to configure the following information about the library (see [table 5](#)):

Table 5 Setting Up the Cabinet

Cabinet Options	Description
Host bus	Sets the SCSI ID for both the library and tape drives.
Stack role	Assigns the library stack role as Master, Slave, or Stand alone (solo). There can be only one Master library in a multiple stack. Once configured as a slave, all library OCP functions can be controlled via the Master library OCP. The library model number will also change to PX500S indicating a stacked library configuration. The library model number is available from the home screen on the Master library OCP.
Left load port	Enables or disables the left load port
Right load port	Enables or disables the right load port
Drive FUP from tape	Allows you to perform a tape drive firmware update from a firmware update tape cartridge.

Note: All Scalar 50 libraries must have **FULL** capacity before configuration as a stack is possible. PX502 libraries in a stack are considered fully licensed. Configure each unit that will be stacked as a stand alone unit and enable **Full** capacity through the remote management pages (see the *Scalar 50 User's Guide* PN 81-81768 located on the documentation CD for more **Capacity Key** information). After full capacity is enabled, change the stack role(s) accordingly to create the multiple library stack.

Note: If you are configuring a multiple library stack, the Scalar 50 in the bottom most position in the stack **MUST** be the Master library.

Setting the Date and Time

To set the date and time:

- 1 From the **Setup** screen, use the up and down arrows to highlight **Date and Time** and press **Enter**.

The **Date and Time** screen displays (see [figure 26](#)):

Figure 26 Date and Time Screen



The **Date and Time** screen displays the following information about the library:

- 2 Use the up and down arrows to view or edit the time zone, date, and time information. Press **Enter** to accept the new settings.
- 3 When you are finished viewing/editing the date and time information, press **Exit** to return to the **Setup** screen.

Setting Network Information

To view or edit the network information:

Note: If you are using DHCP, you do not have to setup the following network information. Once the library is on-line, it is ready to use.

Note: The library must be offline to change these settings.

- 1 From the **Setup** screen, use the up and down arrows to highlight **Network** and press **Enter**.

The **Network** screen displays (see [figure 27](#)):

Figure 27 Network Screen



The **Network** screen allows you to view or edit the following network settings:

- DHCP (default setting)
- IP address
- Subnet mask



- Default gateway
- 2 Use the up and down arrows to select the network setting you wish to view or edit and press **Enter**.
When you are finished viewing/editing the network information, press **Back**, then **Exit** to return to the **Setup** screen.
 - 3 For the network information such as the IP address to be active or take effect, you must power down the library by holding down the power button located on the front of the library after changing any of the network settings (see [figure 21](#)).
The library shuts down.
 - 4 Push the power button to start the library.
The Scalar 50 tape library is initially configured. To complete the installation, continue with [Setup Wizard](#).

Setup Wizard

The **Setup Wizard** leads you through the process of setting up the most common options for this library to be operational. Detailed customization options, including settings modified by this wizard, can be changed via the menus under the **Setup** tab.

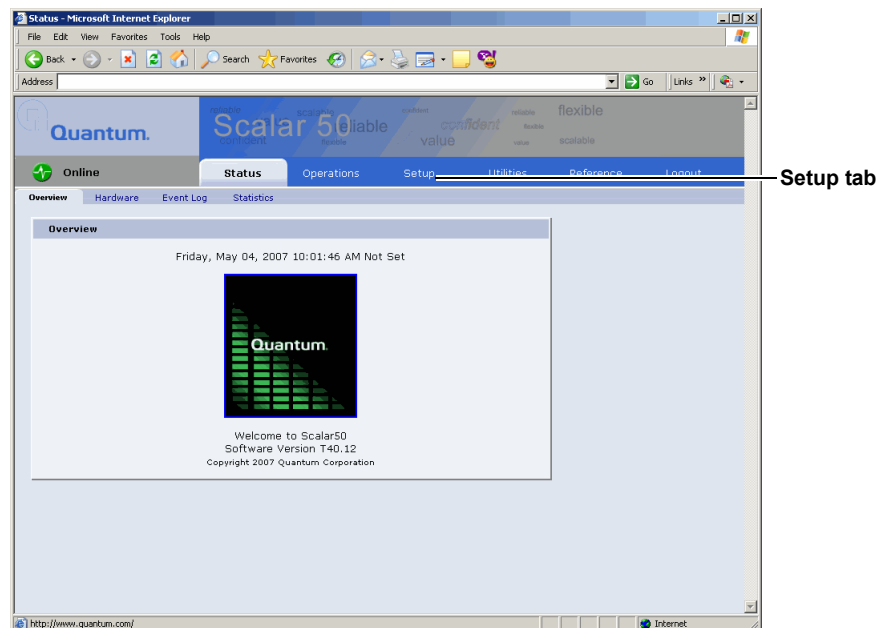
Note: The library will need to reboot for changes to take effect. Host application software may need to be restarted/rebooted as well.

- 1 On the host computer, open the internet browser software.
- 2 In the **Address** field, type `http://IPaddress/` where IP address is the IP address for the Quantum Scalar 50.
- 3 Enter the username and password and click **OK**.

Note: The default username and password is **admin**.

The **Overview** page displays (see [figure 38](#)):

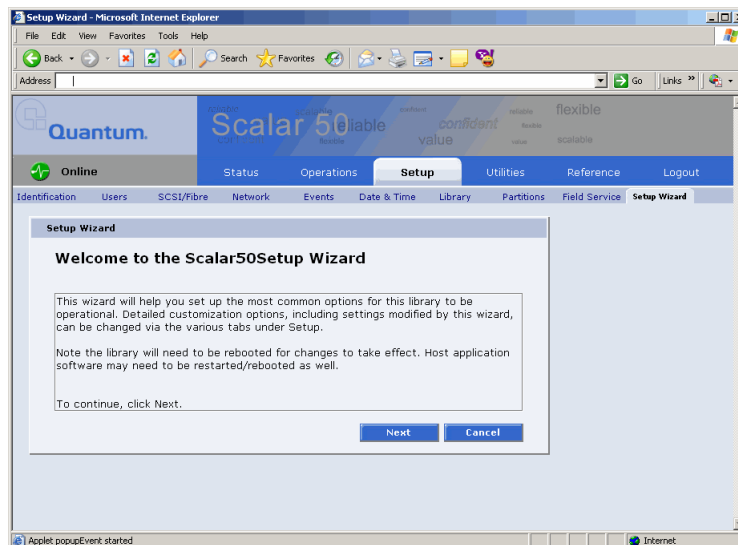
Figure 28 Overview Page



4 To access the **Setup Wizard**, from the **Setup** page, click on the **Setup Wizard** tab at the top of the page.

The **Setup Wizard** displays (see [figure 29](#)).

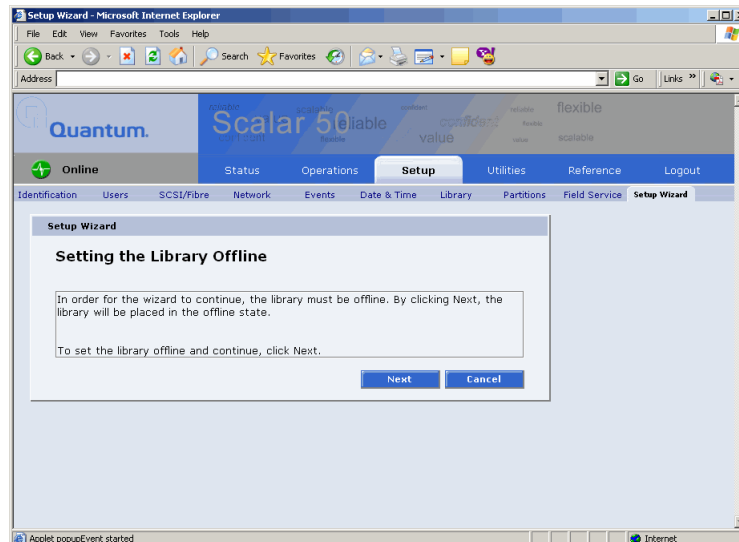
Figure 29 Setup Wizard



5 Click **Next** to continue.

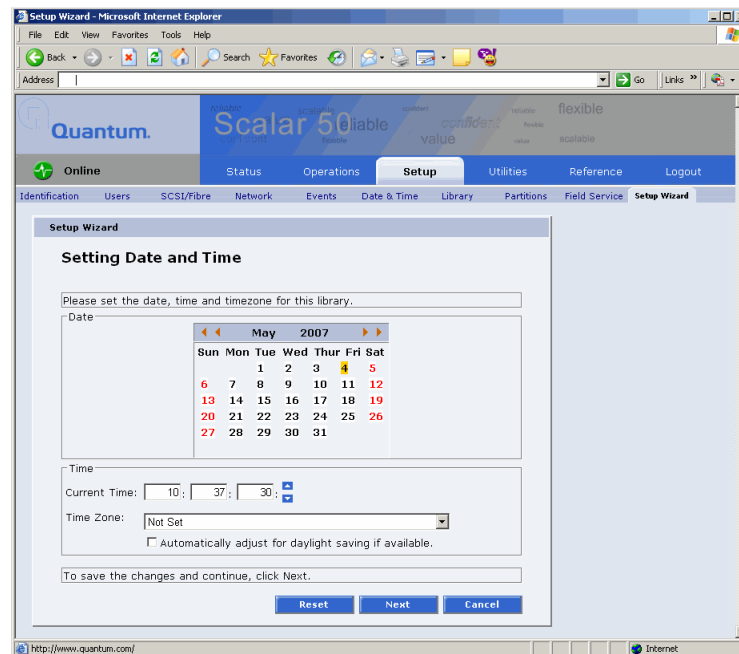
The **Setup Wizard (Library Offline)** page displays (see [figure 30](#)).

Figure 30 Setup Wizard (Library Offline)



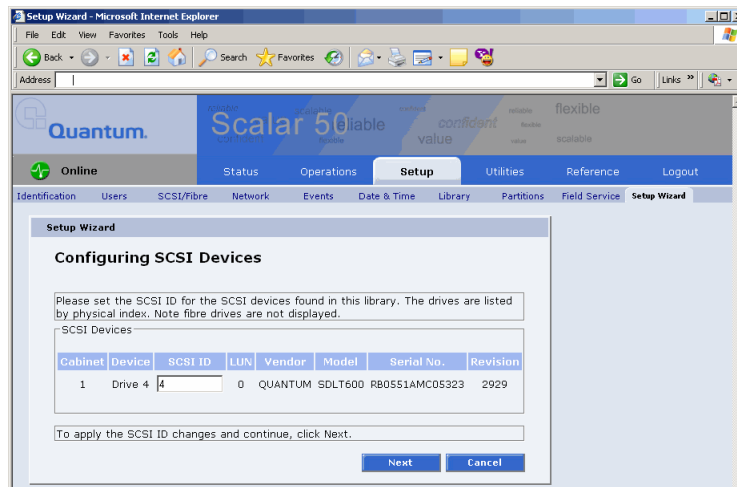
- 6 Click **Next** to turn the library offline and continue.
- The **Setup Wizard (Date and Time)** page displays (see [figure 31](#)).

Figure 31 Setup Wizard (Date and Time)



- 7 Set the system date and time using the **Change** button for the system date and drop down boxes for the system time.
 - 8 Click **Next** to continue.
- The **Setup Wizard (Configure Devices)** page displays (see [figure 32](#)).

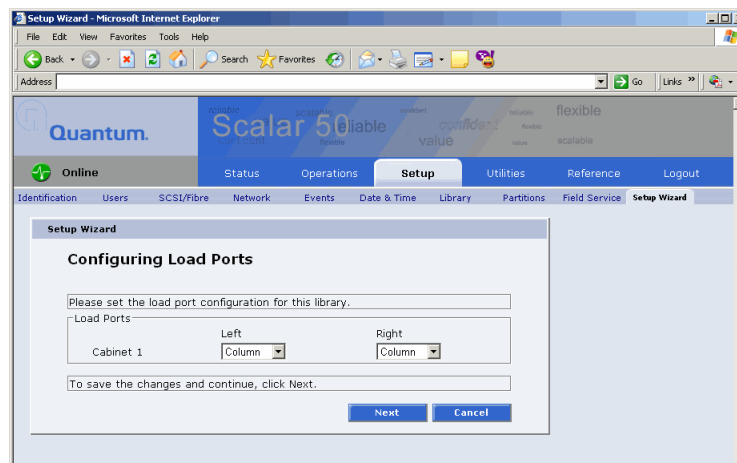
Figure 32 Setup Wizard (Configure Devices)



- 9 Set the SCSI ID for the SCSI devices in the library.
- 10 Click **Next** to continue.

The **Setup Wizard (Configuring Load Ports)** page displays (see [figure 33](#)).

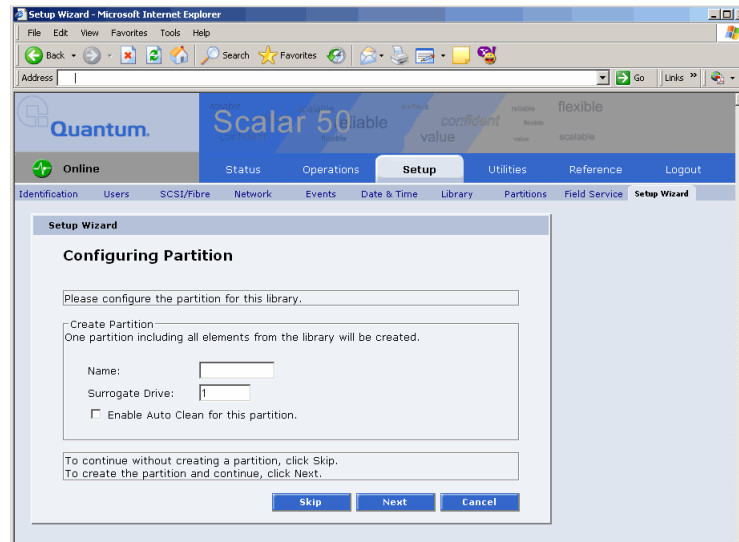
Figure 33 Setup Wizard (Configuring Load Ports)



- 11 Enable or disable the load ports for this library.
- 12 Click **Next** to continue.

The **Setup Wizard (Configuring Partitions)** page displays (see [figure 34](#)).

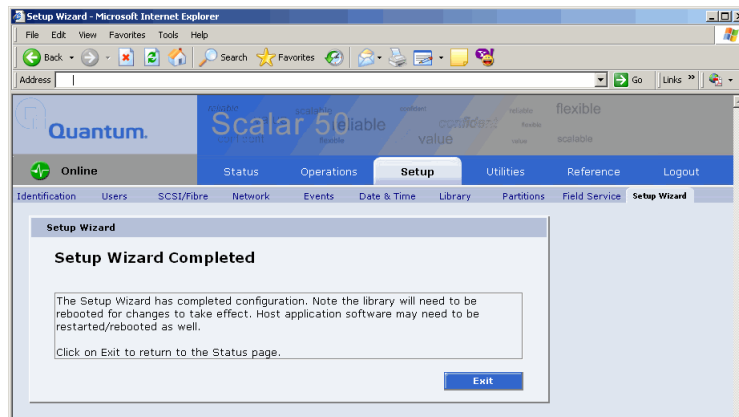
Figure 34 Setup Wizard
(Configuring Partition)



- 13 Create a partition for this library.
 - a Enter a name for the partition.
 - b Select a host LUN for the partition.
 - c Enable/disable Auto Clean for this partition.
- 14 Click **Next** to continue.

The **Setup Wizard (Wizard Completed)** page displays (see [figure 35](#)).

Figure 35 Setup Wizard
(Wizard Completed)



- 15 Click **Exit** to return to the **Status** page.
- 16 Click **Utilities** to reboot the library.
The **Utilities** page displays.
- 17 Click **Reboot**.

After the library reboots, the **Setup Wizard** is complete. Continue with [Testing the Library Configuration](#) on page 38.

Multiple Library Stacks

Note: If the library is NOT being installed with other libraries to operate in a multiple library stack, it is not necessary to complete the following instructions.

Multiple Library Stack Requirements

To ensure the proper operation of your multiple library stack, review the following list of multiple library stack requirements:

- Multiple library stacks that contain a Scalar 50 can NOT exceed two library cabinets.
- The Scalar 50 must be the Master library in a multiple library stack containing PX502 libraries.
- The Master library must always be in the bottom most position in the library stack.
- If a Scalar 50 is stacked with PX502 libraries, the PX502 can NOT contain an HP LTO-2 tape drive or a FC1202 Fibre Channel bridge.
- All Scalar 50 libraries must have **Full** capacity enabled.
- You must initially configure the Scalar 50 libraries and enable **Full** capacity with a **Capacity Key** before configuring the cabinets as Master and Slave libraries (see the *Scalar 50 User's Guide* PN 81-81768 located on the documentation CD for more **Capacity Key** information).

Preparing the Library for a Multiple Library Stack

If the library will be installed in a rack with other Scalar 50 or PX502 libraries, you must prepare each chassis prior to installation. Preparing the library chassis for installation into a multiple library stack consists of:

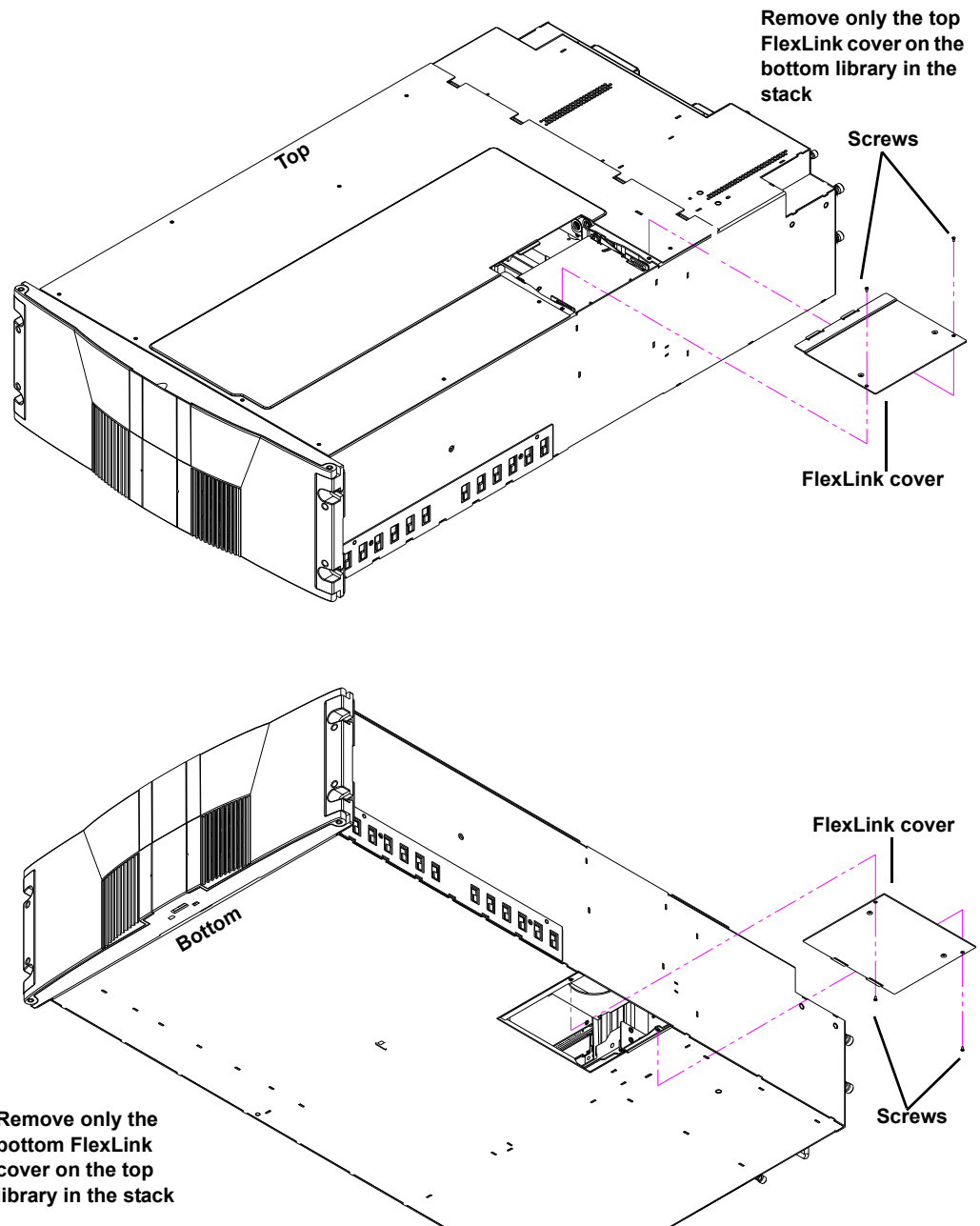
- Removing the FlexLink cover plates
- Installing the alignment hardware

To prepare the library chassis for multiple stack operation:

- 1 Remove two Phillips screws securing each FlexLink cover located on the top and bottom of the library using a #1 Phillips screwdriver (see [figure 36](#)).

Note: Remove the bottom FlexLink cover on every library except the bottom library in the stack. Remove the top FlexLink cover on the bottom library in the stack.

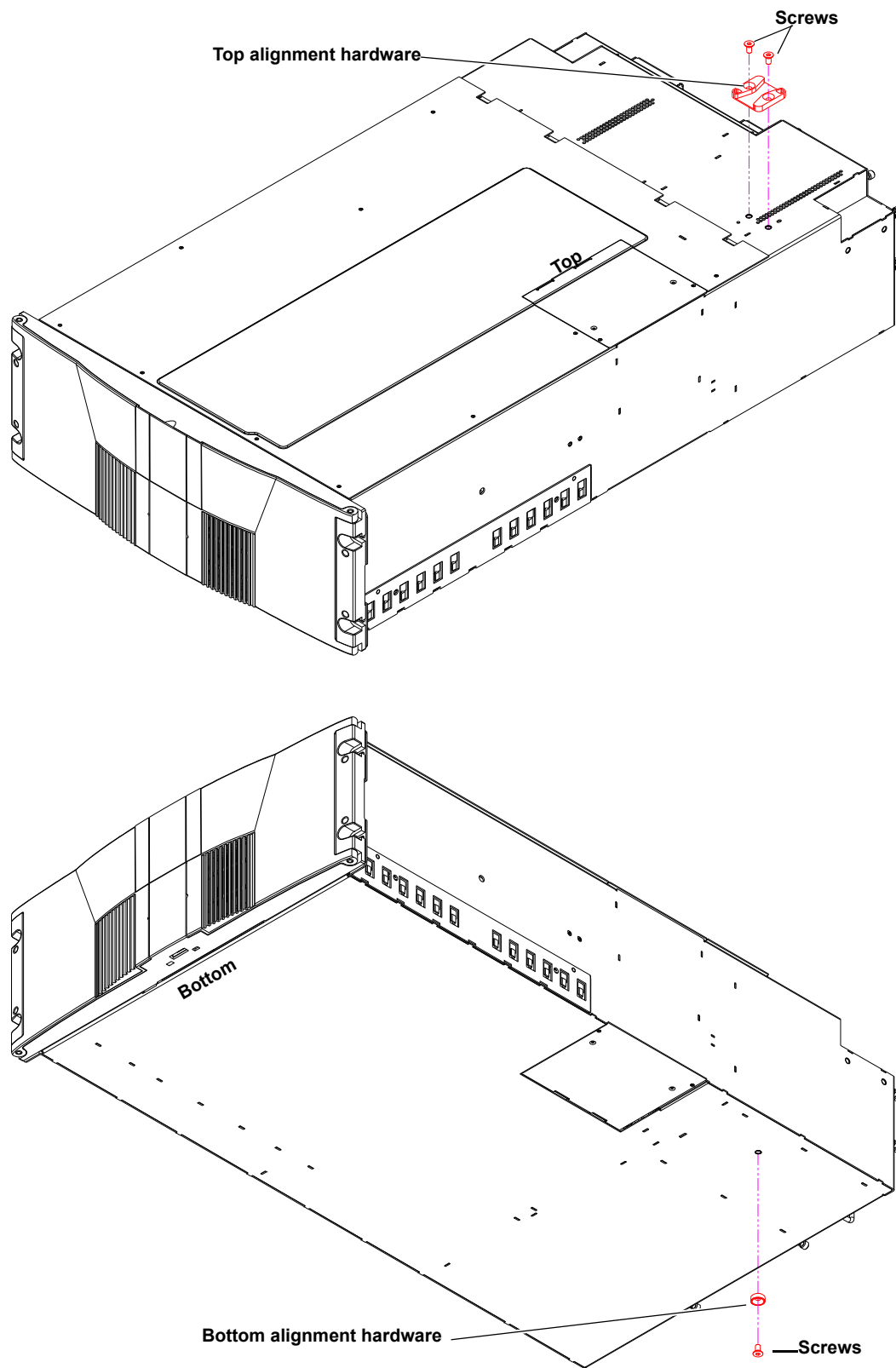
Figure 36 Removing the FlexLink Cover



- 2 The alignment hardware installed on the top and bottom of the libraries in a multiple stack allow the FlexLink bays to align correctly when installed in a rack. Install the following alignment hardware (see [figure 37](#)):
 - a Install the top alignment hardware with two Allen head screws.
 - b Install the bottom alignment hardware with one Allen head screw.

Note: Install only the bottom alignment hardware on the top library in the stack and the top alignment hardware on the bottom library in the stack.

Figure 37 Installing the Alignment Hardware



The libraries are prepared for installation in a multiple stack.

Testing the Library Configuration

After you have completed the library installation, you must test the configuration to ensure proper operation.

Testing the library configuration consists of the following steps:

- [Running a Health Check](#)
- [Testing a Multiple Library Stack Configuration](#)

Running a Health Check

Running a health check will verify all robotics axis and ensure that the library is operating normally.

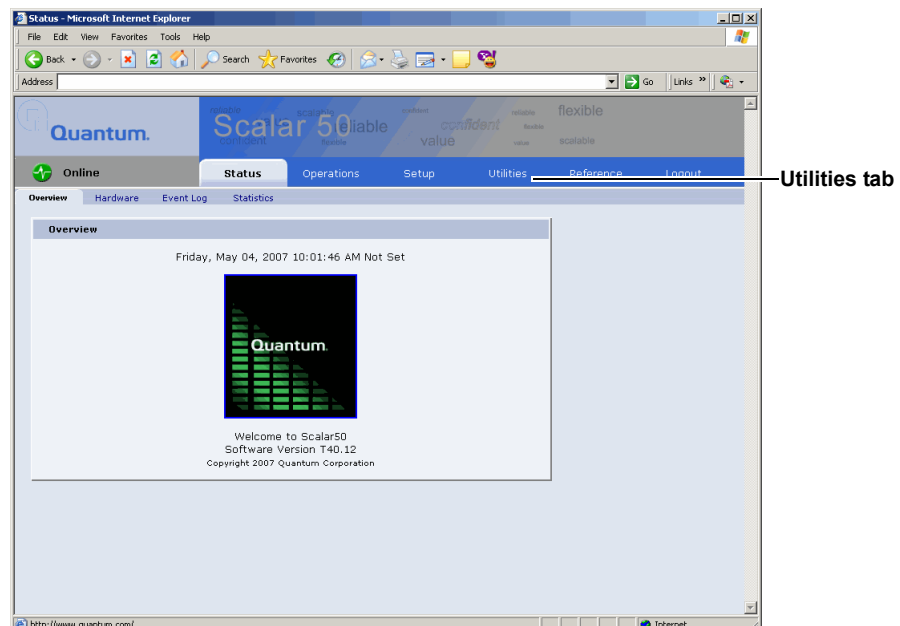
To run a health check:

- 1 On the host computer, open the internet browser software.
- 2 In the **Address** field, type `http://IPaddress/` where IP address is the IP address for the Quantum Scalar 50.
- 3 Enter the username and password and click **OK**.

Note: The default username and password is **admin**.

The **Overview** page displays (see [figure 38](#)):

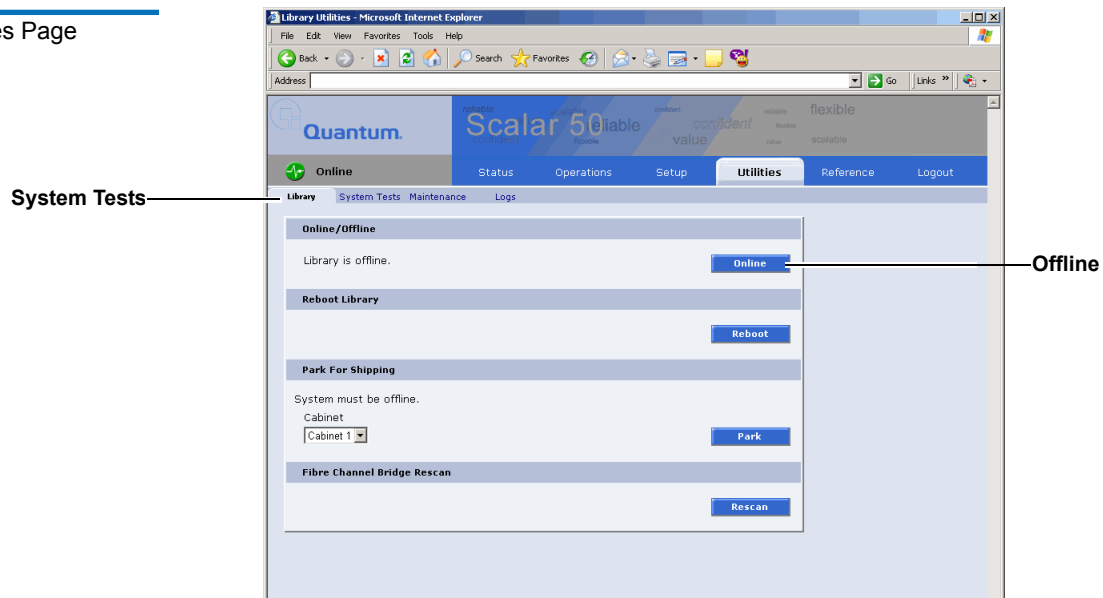
Figure 38 Overview Page



- 4 Click the **Utilities** tab.

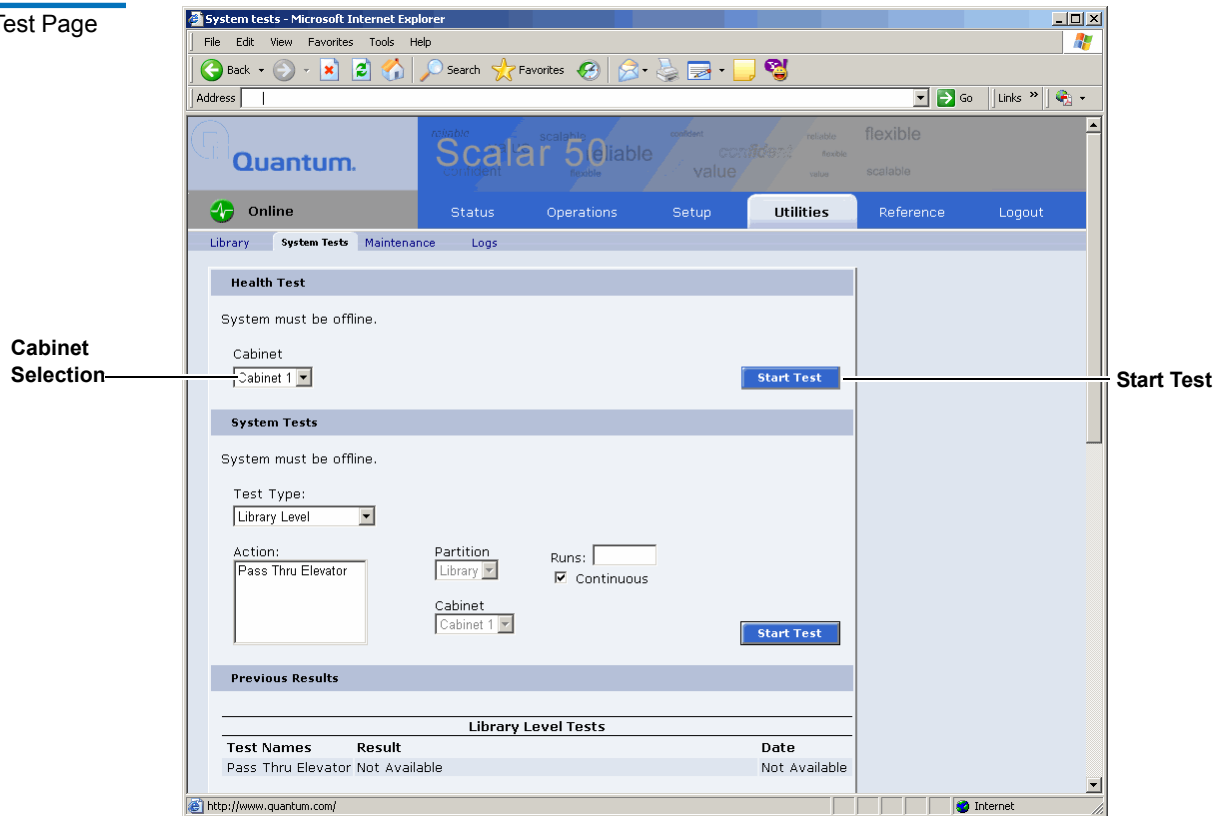
The **Utilities** page displays (see [figure 39](#)).

Figure 39 Utilities Page



- 5 The library must be offline prior to running a health check. Click **Offline**. The library goes offline.
- 6 Click the **System Test** tab at the top of the page. The **System Test** page displays (see [figure 40](#)).

Figure 40 System Test Page



7 Select the new library cabinet from the cabinet drop down list.

8 Click the **Start Test** button.

The system performs a health test on all robotic axis. The test results can be viewed at the bottom of the page. If any failures occur, contact Quantum.

Testing a Multiple Library Stack Configuration

If this is a multiple library stack configuration, you must verify the tape cartridge pass through capability to ensure normal library operation.

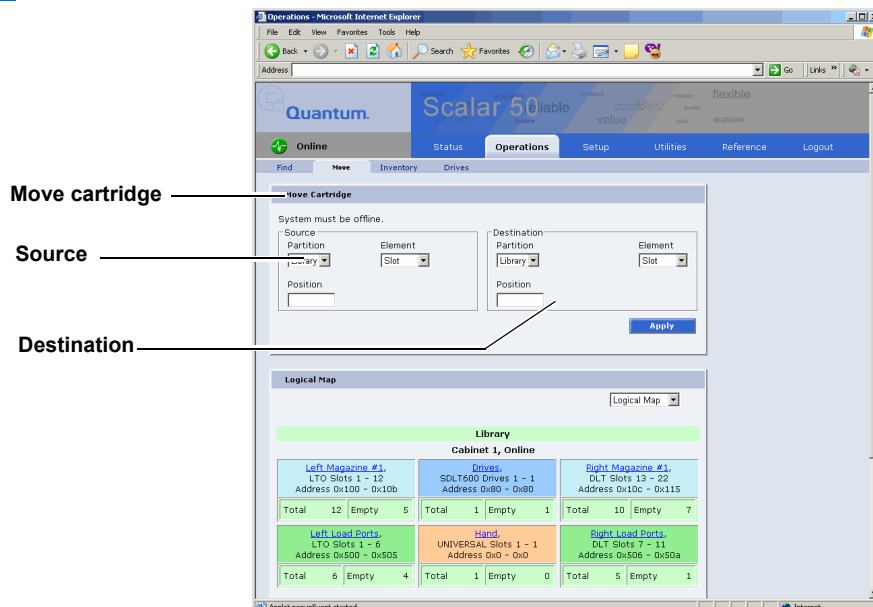
Note: The following procedure requires at least one tape cartridge in the bottom most library in the library stack.

To test a multiple library stack configuration:

1 To access the **Move** page, from the **Operations** page, click on the **Move** tab at the top of the page.

The **Move** page displays (see [figure 41](#)):

Figure 41 Move Page



2 To move a cartridge:

- a In the **Source Partition**, select the bottom most cabinet in the library stack.
- b In the **Source Element**, select a slot.
- c In the **Source Position**, select a slot number containing a tape cartridge.
- d In the **Destination Partition**, select the top most cabinet in the library stack.
- e In the **Destination Element**, select a slot.
- f In the **Destination Position**, select an empty slot number.
- g Click **Apply**.

The tape cartridge moves from the bottom library cabinet into the top library cabinet. If the move completes without any errors, your multiple library stack is operating normally. If there were any errors that occurred during the tape cartridge move, contact Quantum.

3 Turn the system **Online** from the **Utilities** page.

Enabling Capacity on Demand

If you have purchased a Quantum Scalar 50 with full slot capacity, you must complete the following procedure to enable full slot capacity.

- 1 Retrieve and record the Scalar 50 Library serial number.
- 2 Access the COD website and follow the instructions by providing the Library serial number to obtain your new License Key for your additional capacity purchase.

The COD website URL is: www.quantum.com/capacity/scalar50.

- 3 Record your new License Key and then install it into the library to increase your slot capacity. The COD key is entered through the remote management pages **Setup>Library** (see the *Scalar 50 User's Guide* PN 81-81768 located on the documentation CD for more COD information).



81-81767-01 C01



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