

## Tape Cartridge Guidelines

Follow the guidelines in the *Quantum CompacTape Handling and Storage Guidelines*. In addition:

- Use only the labels that were supplied with the cartridge. Using other labels may cause the cartridge to jam in the tape drive.
- Do not move a SPARCstorage DLT 4700 tape auto-loader with cartridges installed; doing so can damage the auto-loader and the cartridges.

## Cable Connections

This auto-loader was shipped with one 50-50 pin and one 50-68 pin SCSI cable.

If you are connecting the auto-loader with wide SCSI devices (68 pin), then the tape drive should go at the end of the SCSI chain.

If you are connecting the auto-loader with other narrow SCSI devices (50 pin), then placement is up to you.

**Note** – A SCSI terminator must be used if the last device in the SCSI chain does not have automatic SCSI termination.

## Ordering Sun Documents

SunDocs<sup>SM</sup> is a distribution program for technical documentation and is available from SunExpress<sup>TM</sup>. You can find a full listing of available documentation on the World Wide Web:

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## Reader Comments

Your comments and suggestions are important to us. Please let us know what you think about the *140-280 Gbyte SPARCstorage DLT 4700 Auto-Loader Installation and User's Guide*, part number 802-5688-11.

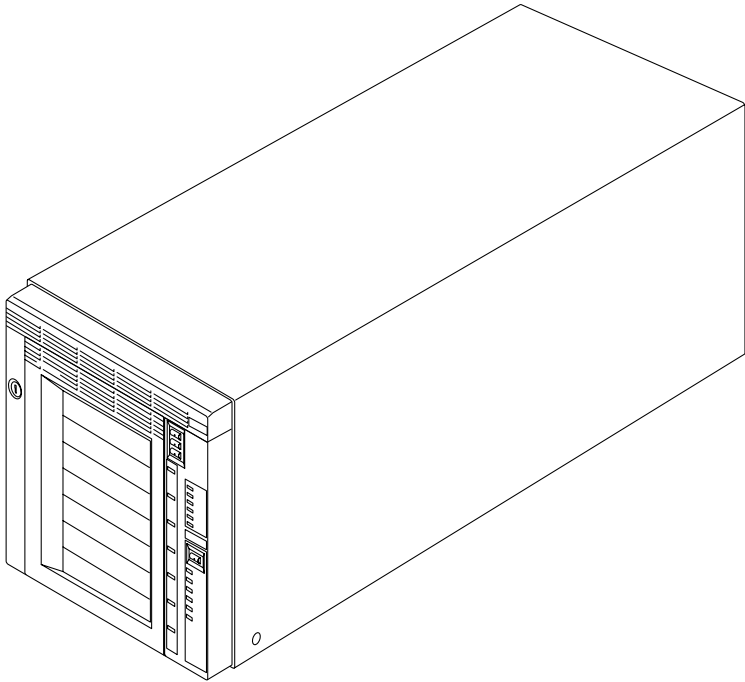
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# *140-280 Gbyte SPARCstorage<sup>TM</sup> DLT<sup>TM</sup> 4700 Auto-Loader Installation and User's Guide*



Installation

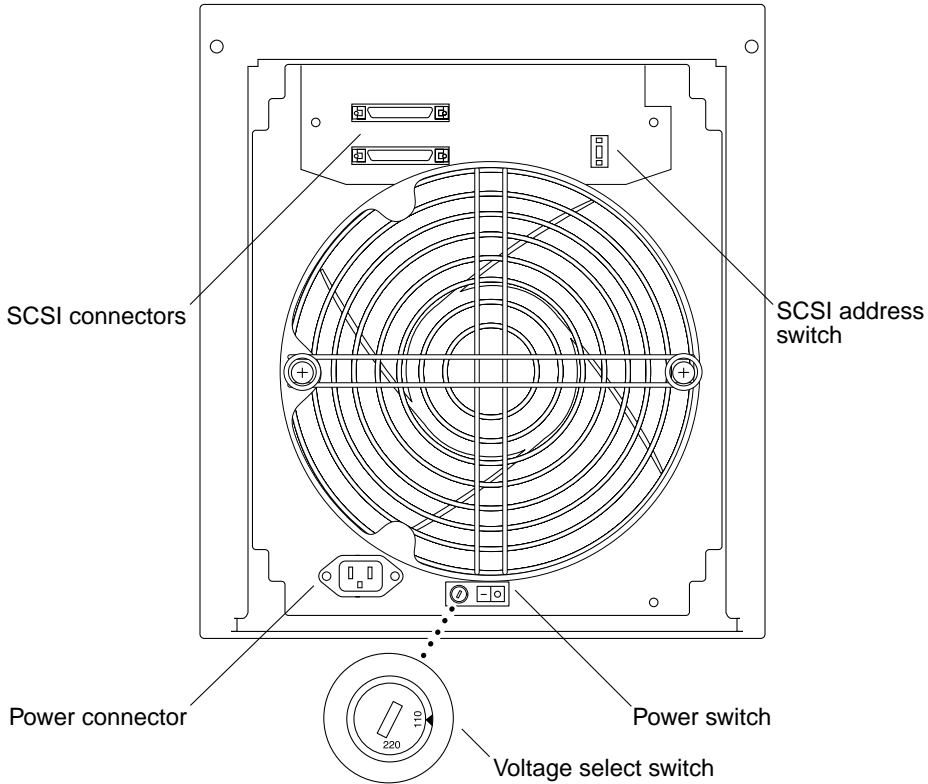
1. Make sure that the total length for each SCSI bus (including internal cable lengths) is less than 6 meters (20 feet).  
The internal SCSI cable length for this auto-loader is 0.35 meters (14 inches).
2. For Solaris™ 2.4, 2.5, and 2.5.1 operating systems, add the following to the /kernel/drv/st.conf file.  

```
tape-config-list=  
"SUN      DLT4700", "Quantum DLT 4700 Min-Library", "QDLT";  
QDLT  =1,0x36,0,0xD639,4,0x80,0x81,0x82,0x83,2;
```

  
Note – Five spaces are required between SUN and DLT4000.
3. Shut down the operating system.

Solaris Handbook for SMCC Peripherals  
or  
Solaris AnswerBook™ on-line documentation
4. Determine the SCSI address (target ID) for the tape drive.

Solaris AnswerBook™ on-line documentation
5. Set the SCSI address switch to the correct SCSI address.
6. Set the voltage select switch to the correct voltage.  
The auto-loader is set for 220V operation. If you are using 110V, you must change the select switch. See the illustration on the next page.
7. Turn off the power to the workstation and the peripherals.
8. Connect the cables.  
See the “Cable Connections” section.
9. Turn on the power to the peripherals and then to the workstation.
10. Reboot your system using the boot -r command.
11. See Chapter 5 of the Quantum Tape Mini-Library Product Manual for more information.



Operation

Read the *Quantum CompacTape Handling and Storage Guidelines*, this guide, and Chapters 1, 2, and 5 of the *Quantum Tape Mini-Library Product Manual* before operating the auto-loader.

**Note** – Many of the illustrations and procedures in the *Quantum Tape Mini-Library Product Manual* do not apply to the SPARCstorage™ DLT™ 4700 Auto-loader. The illustrations and procedures in this guide take precedence over the Quantum Corporation documentation.

Cleaning

In normal operating conditions, this auto-loader does not require periodic cleaning. When cleaning is required, the front-panel “Use Cleaning Tape” LED will light. Use a CleaningTape III or equivalent cleaning cartridge. Follow the instructions included with the cartridge.

## System Diagnostic Support

SunVTS™ 1.0 diagnostic software, which was distributed with the Solaris 2.5 operating system, requires that you apply patch-id number 103097-01 to your system. SunVTS™ 2.0 diagnostic software and later versions do not require a patch. You can obtain any need patches through your normal service channels.

This tape drive is not supported by SunDiag™ diagnostic software.

**Note** – You must load a tape cartridge into the auto-loader before beginning any diagnostic testing. The auto-loader will only test from the tape cartridge you loaded to the bottom of the cartridge magazine. It will not cycle back to the top of the cartridge magazine.

## Density Specifiers

Density specifiers override the front-panel settings. Refer to the `st` man pages for more information.

Density Specifiers	Cartridge Types and Capacities		
	CompacTape IV	CompacTape IIIxt	CompacTape III
l, h	20 Gbytes	15 Gbytes	10 Gbytes
m, c	40 Gbytes <sup>1</sup>	30 Gbytes <sup>1</sup>	20 Gbytes <sup>1</sup>

<sup>1</sup>Assumes a typical compression ratio of 2:1. The compression ratio will vary depending upon the type of data being compressed.

## Software Commands

Some commonly used software commands are described in the following table. Refer to the *Solaris Handbook for SMCC Peripherals*, the man pages, or the AnswerBook on-line documentation for more information.

Command	Description
ufsdump	Creates incremental or full backups; the <code>-l</code> option is used to sequence tape cartridges for large backups
ufsrestore	Retrieves data backed up using the <code>ufsdump</code> command
tar	Creates tape archives and adds or extracts files
mt	Sends commands to magnetic tape devices
st	Acts as a device driver and interface to SCSI tape devices
tapetool	OpenWindows™ tool that reads files from tape or archives files to tape
cpio	Copies file archives in and out