

Installation

1. Make sure that 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. (Note - There must be five spaces between "SUN" and "DLT".)
`tape-config-list=`
`"SUN DLT4700", "Quantum DLT 4700 Mini-Library", "QDLT";`
`QDLT =1,0x36,0,0xD639,4,0x80,0x81,0x82,0x83,2;`

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.

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.

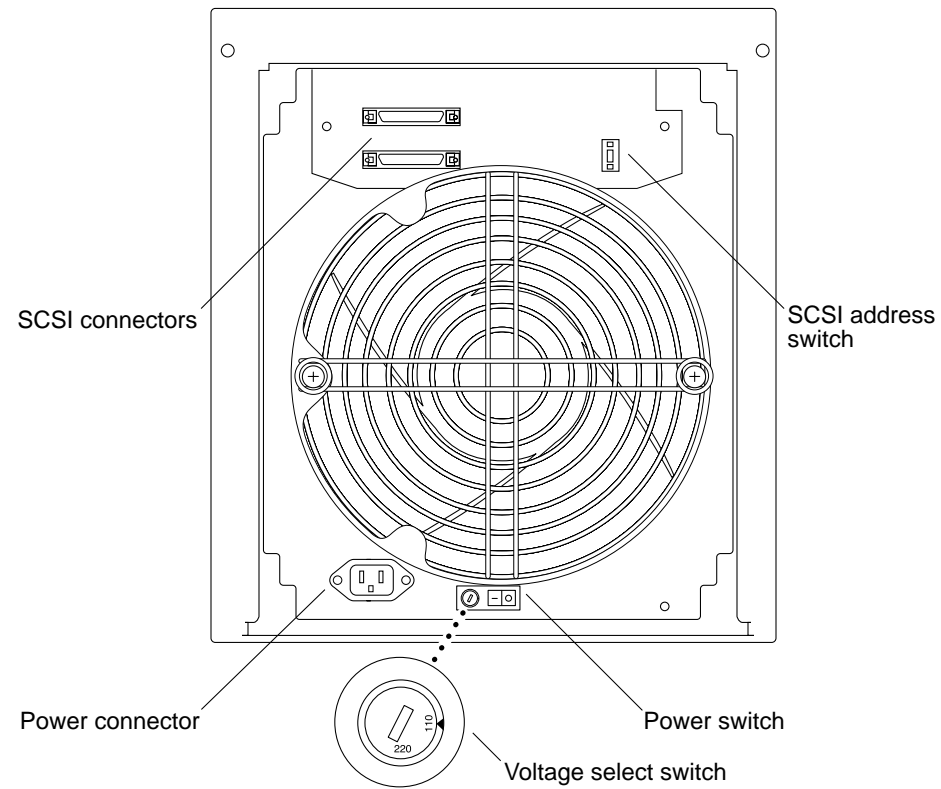
7. Turn off the power to the workstation and the peripherals.

8. Connect the cables.
See the "Cable Connections" section.

9. Turn on the power to the peripherals and then to the workstation.

10. Configure the system.
Remember to reboot your system using `boot -r`

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 4700 Tape Auto-loader. The illustrations and procedures in this guide take precedence over the Quantum documentation.

System Diagnostic Support

SunVTS™ and SunVTS_PRO™ support for Solaris 2.5.1 and prior operating systems is available by applying patch-id number 103097-01 to your system. Use your normal service channels to obtain this patch. This auto-loader is not supported by SunDiag™.

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 ¹	30 Gbytes ¹	20 Gbytes ¹

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

Software Commands

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

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

Tape Cartridge

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

In addition:

- Use only the labels that were supplied with the cartridge. The use of 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.

Cleaning

In normal operating conditions, this drive 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.

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 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 chain does not have automatic SCSI termination.

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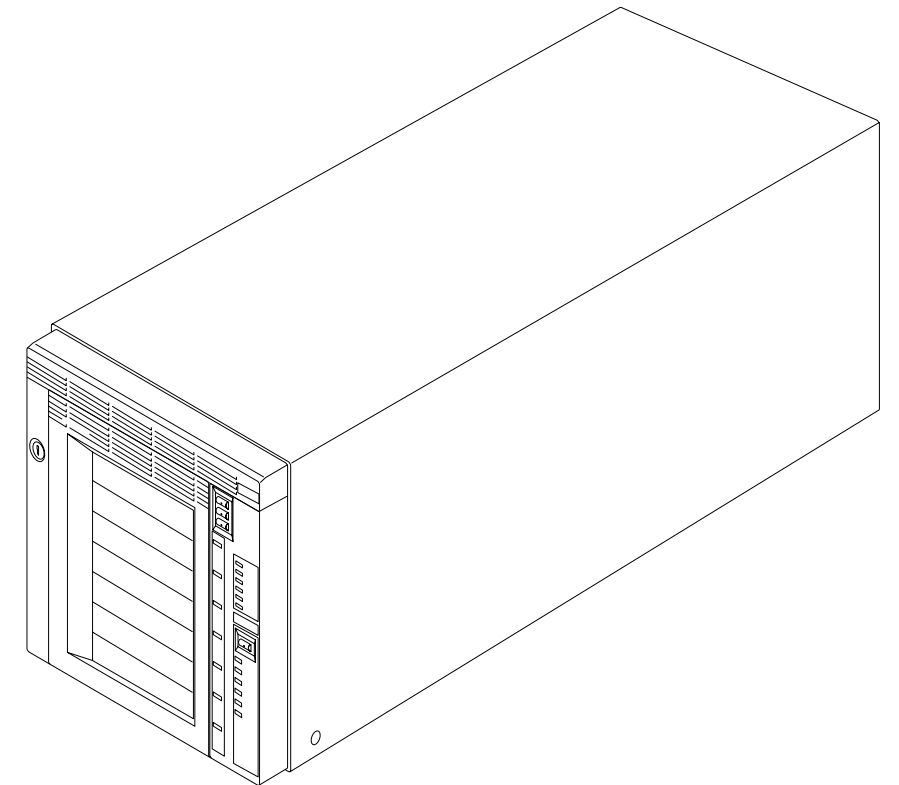
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Your comments and suggestions are important to us. Please let us know what you think about the *SPARCstorage 140-280 Gbyte DLT 4700 Auto-Loader Installation and User's Guide*, part number 802-5688-10.

You can send detailed comments through email to smcc-docs@sun.com or a fax to SMCC Document Feedback at 1-415-786-6443.

140-280 Gbyte SPARCstorage™ DLT4700 Auto-Loader Installation and User's Guide



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