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## 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.

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

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## 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:

<http://www.sun.com/sunexpress/>

To order or for more information:

Telephone: 1-800-873-7869 (North America only)

Fax: 1-800-944-0661 (North America only)

## 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.

You can send detailed comments through email to [smcc-docs@sun.com](mailto:smcc-docs@sun.com) or by fax to SMCC Document Feedback at 1-415-786-6443.

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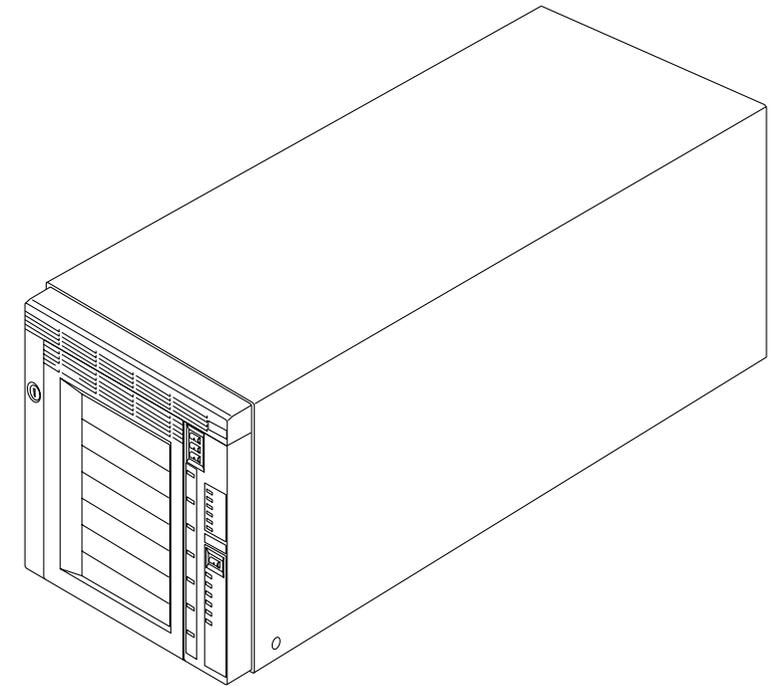
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Part Number: 802-5688-11  
Revision A of July 1996



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



 Sun  
microsystems

## 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

**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.

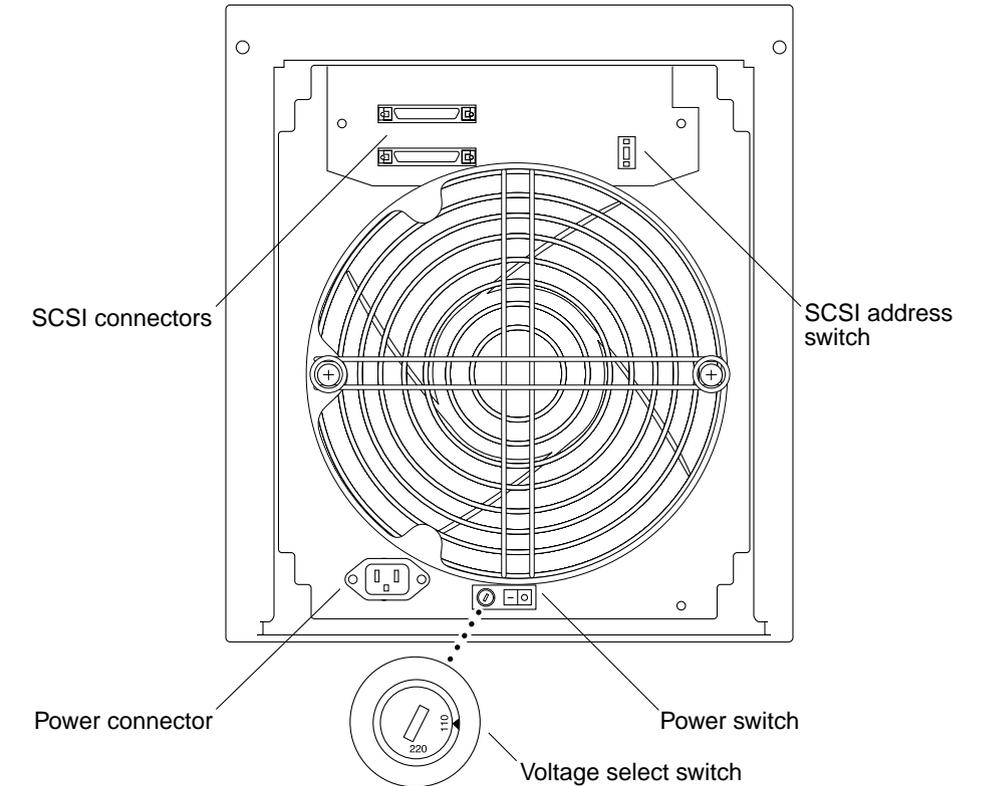
**7. Turn off the power to the workstation and the peripherals.**

**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 CompactTape 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.

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## 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.

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**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.

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## Density Specifiers

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

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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>

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

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## 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.

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Command	Description
<code>ufsdump</code>	Creates incremental or full backups; the <code>-l</code> option is used to sequence tape cartridges for large backups
<code>ufsrestore</code>	Retrieves data backed up using the <code>ufsdump</code> command
<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

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