

Installing Your Model 6426-A Cartridge Tape Subsystem

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THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTIONS MANUAL, MAY CAUSE INTERFERENCE TO RADIO COMMUNICATIONS. IT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A COMPUTING DEVICE PURSUANT TO SUBPART J OF PART 15 OF FCC RULES, WHICH ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST SUCH INTERFERENCE WHEN OPERATED IN A COMMERCIAL ENVIRONMENT. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE INTERFERENCE IN WHICH CASE THE USER AT HIS OR HER OWN EXPENSE WILL BE REQUIRED TO TAKE WHATEVER MEASURES MAY BE REQUIRED TO CORRECT THE INTERFERENCE.

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Contents

Introduction 1

 Prerequisite in ECLIPSE MV/2000™ DC
 or DS/7500 Series Systems 2

 Getting Started 3

 Tools 3

 Additional Documentation 4

 Summary of Procedure 5

 Contacting Data General 6

Reviewing Site and Unpacking Equipment 7

Installing Tape Subsystem 9

Starting Tape Subsystem 13

Testing Tape Subsystem 15

Tape Subsystem Specifications 17

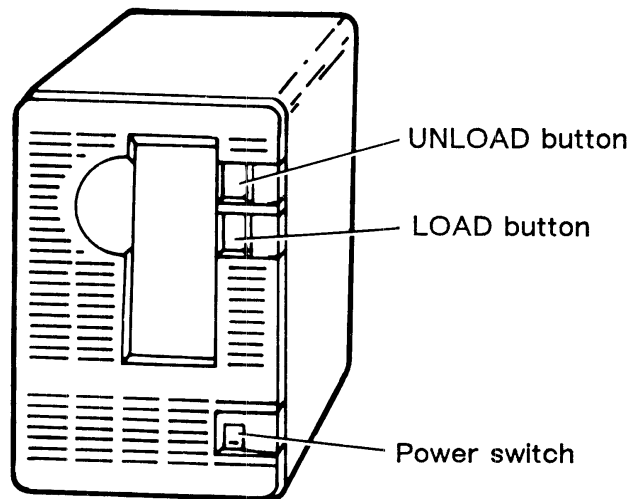
Index 19

Introduction

This book shows you how to set up and connect the Model 6426-A cartridge tape subsystem to the peripheral bus in a host computer system or in a Data General peripheral bus subsystem, and how to test the subsystem. It is written for the system manager or the person responsible for installing your system.

NOTE *In some manuals, the peripheral bus is referred to as the SCSI bus.*

Model 6426-A cartridge tape subsystem



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Prerequisite in ECLIPSE MV/2000™ DC or DS/7500 Series Systems

To use the tape subsystem, an ECLIPSE MV/2000 DC or DS/7500 Series computer system must have a system processor board with 4 megabytes of onboard memory. You can tell if your system board has 4 megabytes of memory by looking at the system name on the front of the computer unit. If the words *ECLIPSE MV/2000 DC* or *DS/75XX* (where *XX* specifies the model number) are *yellow*, your system board has 4 megabytes of onboard memory, and your computer system can use the tape subsystem. If these words are *tan*, and you want to install a tape subsystem, you must upgrade your system with a new system board.

NOTE *If the system board has 4 megabytes of onboard memory, the label on the SCP media for the computer system will contain the words MV2DC_II & DS7500_II instead of MV2000DC or DS/7500.*

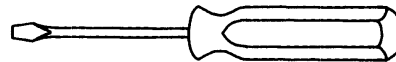
Getting Started

Before you begin the installation procedure, gather the tools and, if necessary, the documentation listed in the section “Additional Documentation.” You can also look over the sections “Summary of Procedure” and “Contacting Data General.” Then turn to the section “Reviewing Site and Unpacking Equipment.”

Tools

You need a 1/8” flathead screwdriver to secure the peripheral bus cable to the Model 6426-A tape subsystem.

Small flathead screwdriver (1/8”)



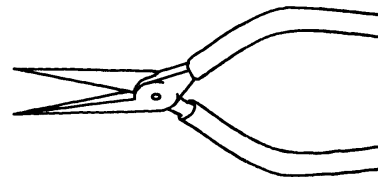
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If you are connecting the tape subsystem to an ECLIPSE MV/1400 DC, ECLIPSE MV/2000 DC, or DS/7500 Series computer system, you will also need a 1/4” flathead screwdriver and a needle nose pliers.

Medium flathead screwdriver (1/4”)



Needle nose pliers



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You will also need a 120 Mbyte cartridge tape to perform the test at the end of this manual.

Additional Documentation

You may want to refer to the following documentation during the installation:

- *Owner's Manual Model 6426 Cartridge Tape Unit* (DGC No. 014-001315). This manual provides a general description of the tape unit and contains the *Operator's Guide Model 6352 Cartridge Tape Drive* (DGC No. 014-001256), which tells how to operate and maintain the tape subsystem.
- Setting up or installing manual for your computer system.
- Documentation for your operating system.

If you want to order additional manuals, contact your local Data General sales representative.

If you want to order or obtain information on maintenance and service documentation, contact your local Data General sales or service representative.

Summary of Procedure

The sections listed below tell you how to perform the following tasks:

Section

Tasks

Reviewing Site and Unpacking Equipment

Steps 1–3

- ☐ Review the installation site, check the SHOCKWATCH® label, unpack, inventory, and inspect the equipment.

Installing Tape Subsystem

Step 1

- ☐ Prepare the computer unit or Data General peripheral bus subsystem, if present, for expansion.

Steps 2–3

- ☐ Connect the peripheral bus cable and the power cord to the tape subsystem.

Step 4

- ☐ Connect the peripheral bus cable to the peripheral bus connector pins in the host computer system or other Data General peripheral bus subsystem.

Step 5

- ☐ Close the computer unit or the peripheral bus subsystem.

Steps 6–7

- ☐ Plug the cabinet's power cord into an ac power outlet.

Starting Tape Subsystem

Steps 1–3

- ☐ Turn on the tape subsystem and the computer unit.

Testing Tape Subsystem

Steps 1–5

- ☐ Test the tape subsystem.

Contacting Data General

If you have a problem that you cannot solve, contact your Data General salesperson or the nearest Data General office for the phone number of the customer service center.

If you have comments on this manual, please use the prepaid Comment Form that appears at the back. We want to know what you like and dislike about this manual.

Reviewing Site and Unpacking Equipment

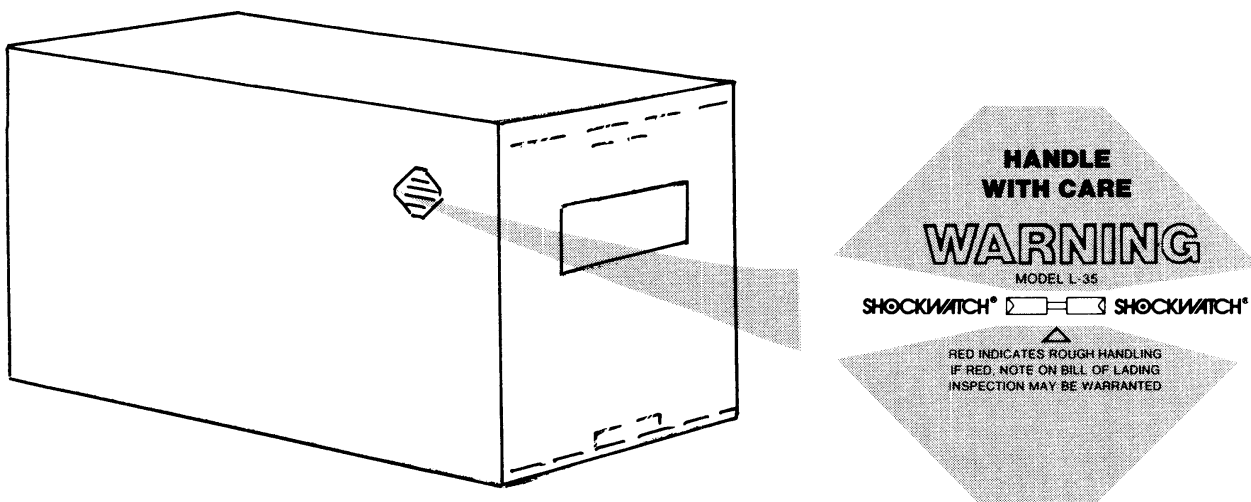
This section gives you general guidelines for reviewing the installation site and unpacking the tape subsystem.

1. Review the installation site.

Make sure that the site you have chosen meets the requirements for your Model 6426-A cartridge tape subsystem. For general environmental and electrical requirements, refer to the section "Tape Subsystem Specifications" at the end of this manual.

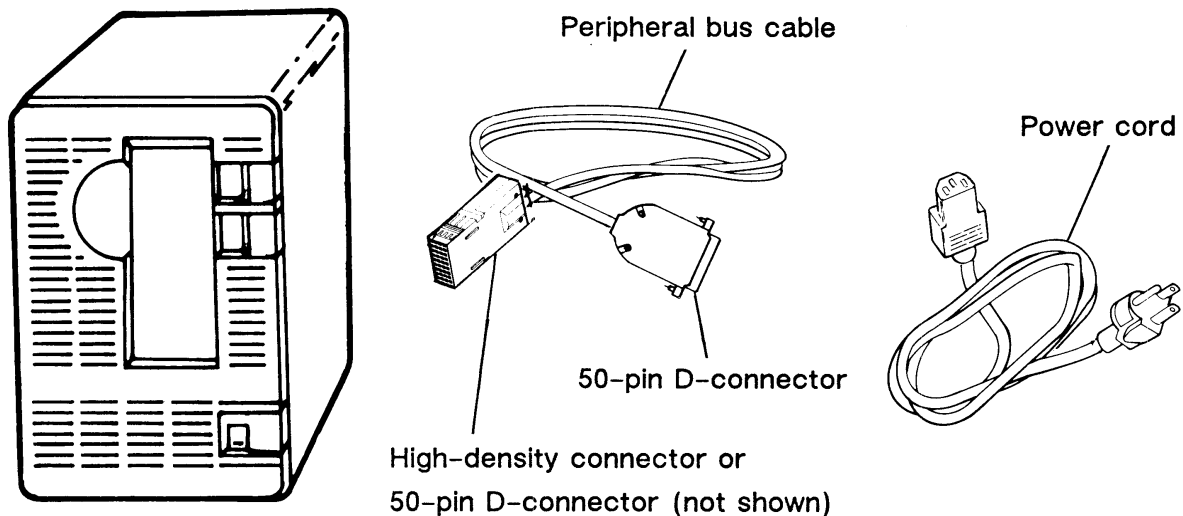
2. Check the SHOCKWATCH label.

If the indicator on the label located on the side of the shipping carton is bright red instead of white, it means that the carton has been mishandled. *Do not open the carton.* Instead, immediately contact your Data General salesperson or the nearest Data General office.



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3. Unpack, inventory, and inspect the equipment.



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NOTE If you are connecting the tape subsystem to the peripheral bus (SCSI) port on an ECLIPSE MV/1400 DC, ECLIPSE MV/2000 DC, or DS/7500 Series system, make sure that you have a peripheral bus cable with a high-density connector and a 50-pin D-connector. The table below lists cables currently available.

High-density peripheral bus cable
005-24156 — 5 feet (1.5 meters)
005-24164 — 10 feet (3.0 meters)
005-24167 — 15 feet (4.5 meters)

To connect the tape subsystem to another Data General peripheral bus subsystem, you need a peripheral bus cable with two 50-pin connectors. No matter what type of peripheral bus cables you use, the maximum combined length of all the internal and external peripheral bus cables cannot exceed 23 feet (6.9 meters)

Make sure that the model and part numbers on the packing slip (attached to the outside of the shipping carton) specify what you ordered and verify that these part numbers match those on your equipment.

If you find that a model or part number is incorrect or that the equipment appears damaged, contact your Data General salesperson or the nearest Data General office.

Installing Tape Subsystem

This section gives you guidelines for preparing your computer and the tape subsystem for installation and for connecting the tape subsystem's peripheral bus cable and power cord.

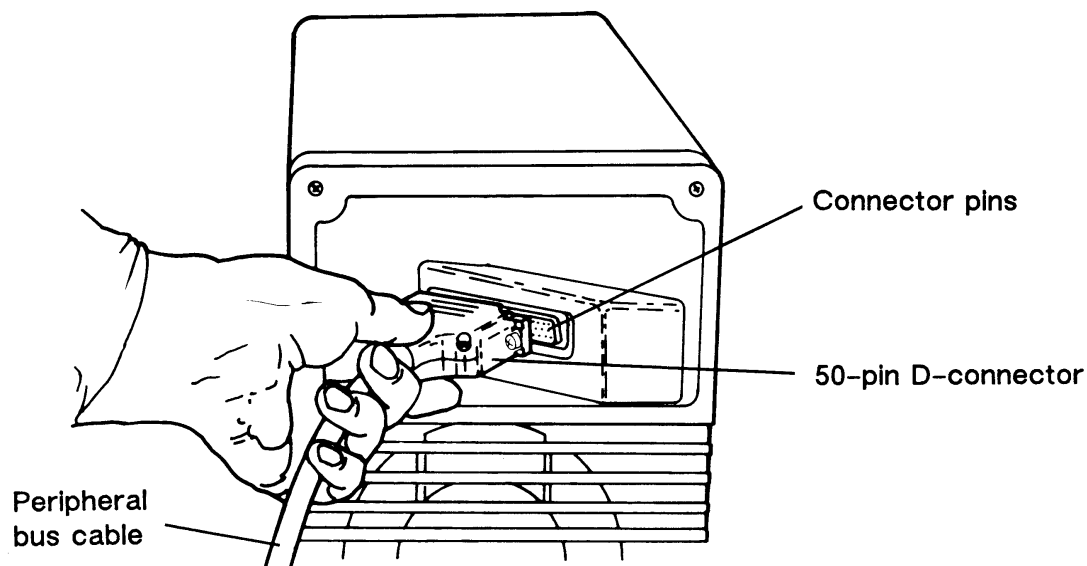
- 1.** Bring down the operating system and turn off the computer unit.

Follow the instructions in your operating system documentation to bring down the system. For information on turning off power to the computer, refer to the documentation for your computer system.

CAUTION *If the power was on, wait 3 minutes before proceeding to the next step. If you have to move any unit to access the back, be careful not to jar it or crimp or strain the cables. Always make sure that the computer is turned off before you move it.*

2. Connect the 50-pin D-connector end of the peripheral bus cable to the connector pins on the back of the cartridge tape subsystem.

To secure the cable, tighten the two screws on the connector by turning each one clockwise with a 1/8" flathead screwdriver.



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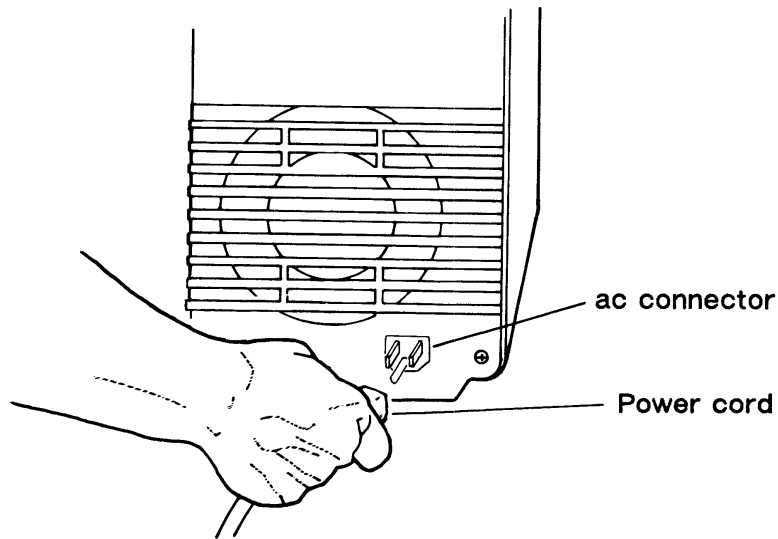
NOTE *The tape subsystem is jumpered or set to select a device identification number (DID) of 6 (unit 0). To change the DID for customized systems, contact your field service representative.*

3. Connect the other end of the peripheral bus cable to the peripheral (SCSI) bus port in your computer unit or in a Data General peripheral bus subsystem.

For information on connecting the peripheral bus cable to your computer or to a Data General peripheral bus subsystem, refer to the setting up or installing manual for that unit.

CAUTION *If you are connecting more than one Data General peripheral bus subsystem to the computer, the Model 6426-A cartridge tape subsystem must always be the last subsystem on the peripheral bus.*

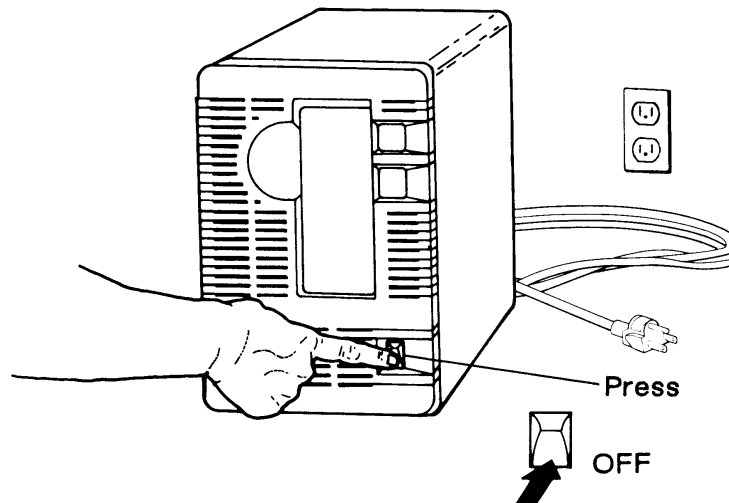
4. Plug the power cord into the ac connector on the back of the cartridge tape subsystem.



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5. Close the computer unit (or peripheral bus subsystem).
6. Make sure the power switch of the cartridge tape subsystem is off.

To make sure that the power switch is off, press in the bottom of the switch marked 0.



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7. Plug the power cord of the cartridge tape subsystem into the ac power outlet.

NOTE When unplugging the power cord, pull the plug and not the cord.

Starting Tape Subsystem

Before following the steps in this section, you should be familiar with the operation of the cartridge tape subsystem and the computer unit. For information on operating the tape subsystem, refer to the *Operator's Guide Model 6352 Cartridge Tape Drive*. For information on operating the computer unit, refer to the documentation for your system.

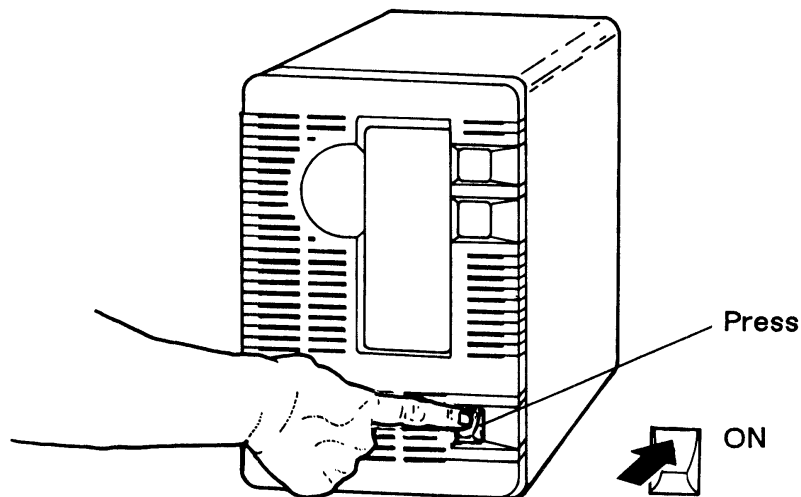
NOTE *The device code of the Model 6426-A cartridge tape subsystem is 63.*

1. Make sure that the computer unit is turned off.

CAUTION *Unless you turn on the tape subsystem before you turn on an ECLIPSE MV/1400 DC, ECLIPSE MV/2000 DC, or DS/7500 Series computer, it will not operate in the system.*

2. Turn on the cartridge tape subsystem.

To turn on the cartridge tape subsystem, press in the top of the power switch marked 1.



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3. Start the computer system.

For information on starting your system, refer to the documentation for your system.

NOTE If a problem occurs during startup and you suspect that the Model 6426-A cartridge tape subsystem is the cause, try the following steps:

- 1. Turn off the computer unit and the cartridge tape subsystem.*
- 2. Make sure that the cabling is correct (steps 2-4 in the previous section).*
- 3. Turn on the cartridge tape subsystem again.*
- 4. Restart the computer unit.*

If the problem recurs, call your Data General salesperson or the nearest Data General office.

Testing Tape Subsystem

This section begins with a general procedure for testing the Model 6426-A tape subsystem. It is followed by an example that shows you how to test the tape subsystem if you are using the AOS/VS operating system.

If you need information on using cartridge tapes and the tape subsystem, refer to the *Operator's Guide Model 6352 Cartridge Tape Drive*.

1. Insert a cartridge tape into the cartridge tape drive.

The tape should be write enabled; that is, the write-enable arrow should point away from the word SAFE.

2. Create a disk file (or select a familiar file).

3. Copy the disk file to the cartridge tape.

4. Copy the tape file back to the disk with a different filename.

5. Compare the disk file copied from the tape to the original file.

If you are unable to read the file or if the file differs from the original, check the cabling (see steps 2-4 in the section "Installing Tape Subsystem"). If the cabling is correct, contact your Data General salesperson or the nearest Data General office.

Example

If you are using the AOS/VS operating system, you can follow the steps below to test the cartridge tape subsystem.

1. Type the following commands after the CLI prompt, which is a `>`.
(The `>` symbol after a command means press the New Line key.)

<code>> COPY TEST :UP.CLI ></code>	Copies the system UP macro file to your directory under the name TEST.
<code>> ACL/D TEST ></code>	Gives you access to TEST.
<code>> COPY @MTJ10:0 TEST ></code>	Copies TEST to tape file 0.
<code>> COPY TEST1 @MTJ10:0 ></code>	Copies TEST from the tape to your directory under the name TEST1.

2. Compare the file TEST to TEST1.

If you have the SCOM utility, you can compare the files by typing

<code>> XEQ SCOM TEST TEST1 ></code>	Tells SCOM utility to compare the files.
--	--

If the files are identical, no message appears.

3. Delete the files TEST and TEST1 and rewind the tape.

<code>> DELETE TEST TEST1 ></code>
<code>> REWIND @MTJ10 ></code>

If an error message appears, retype the command.

If an error recurs, contact your Data General salesperson or the nearest Data General office.

After verifying the operation of your tape subsystem, you can store this manual in the binder shipped with the *Operator's Guide Model 6352 Cartridge Tape Drive*.

Tape Subsystem Specifications

This section lists the mechanical, electrical, and environmental specifications. It also lists the device code and device identification number for the tape subsystem. Refer to the *Operator's Guide Model 6352 Cartridge Tape Drive* (DGC No. 014-001256) for the performance specifications of the tape drive.

Device Code 63

Device Identification Number (DID) 6 (selected by jumpers)

Mechanical Specifications

Width	6.50 inches (0.165 meters)
Depth	15.25 inches (0.387 meters)
Height	10.25 inches (0.26 meters)
Weight	30 pounds (13.61 kilograms)

Electrical Specifications

Power Type	100 Vac	120 Vac	220/240 Vac
Voltage range	+15/-10%	+/-15%	+/-15%
Line frequency	47-63 Hz	47-63 Hz	47-63 Hz
Current (maximum)	3 A	3 A	1.5 A
Power consumed (maximum)	100 W	100 W	100 W
Inrush current (maximum)	30 A 1/2 cycle	30 A 1/2 cycle	30 A 1/2 cycle
Heat output	170 W 580.2 Btu/hr	170 W 580.2 Btu/hr	170 W 580.2 Btu/hr

Environment

Temperature

Operating	0° – 38° C (32° – 131° F)
Storage	–40° – 65° C (–40° – 149° F)
Shipping	–40° – 65° C (–40° – 149° F)

Humidity (noncondensing)

Operating	20% – 80%
Storage	5% – 95%

Maximum Wet Bulb

29° C

Altitude

0 – 10,000 feet (3.048 kilometers)

Index

A

Assistance 6

C

Cable, peripheral bus
 connecting 10–11
 length 8
 part numbers 8
 see also Power cord, tape subsystem

D

Data General Corporation, contacting 4, 6, 8, 10
Device code, tape subsystem 13, 17
Device identification number (DID) 10, 17
Documentation, additional 4
DS/7500 Series system, prerequisite for use in 2

E

ECLIPSE MV/2000 DC system, prerequisite for use in 2
Electrical specifications 17
Environmental specifications 18
Errors 13–14, 15–16

I

Installing
 procedure, summary 5
 tape subsystem 9–12

M

Maintenance, documentation 4
Mechanical specifications 17

O

Operating tape subsystem 4, 13-14

P

Peripheral bus 1, 11
Peripheral subsystem, Data General 1, 11
Power cord, tape subsystem 1, 11, 12
Power requirements 17
Powerup procedure, *see* Starting tape subsystem
Problems
 with order 6, 8
 reading from tape 15-16
 during startup 13-14

S

SCSI bus, *see* Peripheral bus
Service, *see* Assistance *or* Data General Corporation, contacting
Site requirements 7, 17-18
Specifications
 device code 13, 17
 device identification number (DID) 10, 17
 electrical 17
 environment 18
 mechanical 17
Starting tape subsystem 13-14

T

Tape subsystem

cables

connecting 10–11, 14

length 8

part numbers 8

connecting to

computer unit 11

peripheral bus subsystem, Data General 11

operating 4, 13–14

power cords, connecting 11–12

problems with 6, 8, 13–16

starting 13–14

Testing tape subsystem 15–16

Tools required for installation 3

U

Unpacking 7–8

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