

# VAX 4000 Model 105A

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## Installation Information

Order Number: EK-512AA-IN. A01

**April 1994**

This manual describes how to install and test the VAX 4000 Model 105A.

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**April 1994**

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## Preface

This manual describes how to install and test the VAX 4000 Model 105A. It also refers to information on connecting the system to a network, connecting external options to the system, and booting the operating system.

### Audience

This manual is intended for anyone who wants to install the VAX 4000 Model 105A. It is written for both experienced and inexperienced users.

### Structure of This Manual

This manual contains one chapter. Each section heading is a step in the installation procedure and is indicated by the word *step* and a numeral. Substeps in the procedure are indicated by a numeral.

### Additional Information

See the *VAX 4000 Model 105A Operator Information* manual for the list of associated and related documents.

## Conventions

The following conventions are used in this manual:

<b>Convention</b>	<b>Description</b>
MONOSPACE	Text displayed on the screen is shown in monospace type.
<i>italic type</i>	Italic type emphasizes important information and indicates the complete titles of manuals.
<b>Note</b>	A note contains information that is of special importance to the user.

# 1

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## Installation Procedure

This chapter shows you, step by step, how to install the VAX 4000 Model 105A.

### Step 1: Choosing a Suitable Location

Follow these guidelines when choosing where to place the system unit:

- Place the system unit where the room temperature is between 10°C and 40°C (50°F and 104°F) and the humidity is between 20% and 80%.
- Place the system unit at least 1 metre (3 feet) from heaters, photocopying machines, or other operating equipment.
- Place the system unit in a well-ventilated location.
- Place the system unit on a work surface that is raised above the floor.
- Do not place this unit on the top of any pedestal system.
- Keep the air vents on either side of the system unit clear.
- Do not expose the system unit to direct sunlight or abrasive particles.

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**Note**

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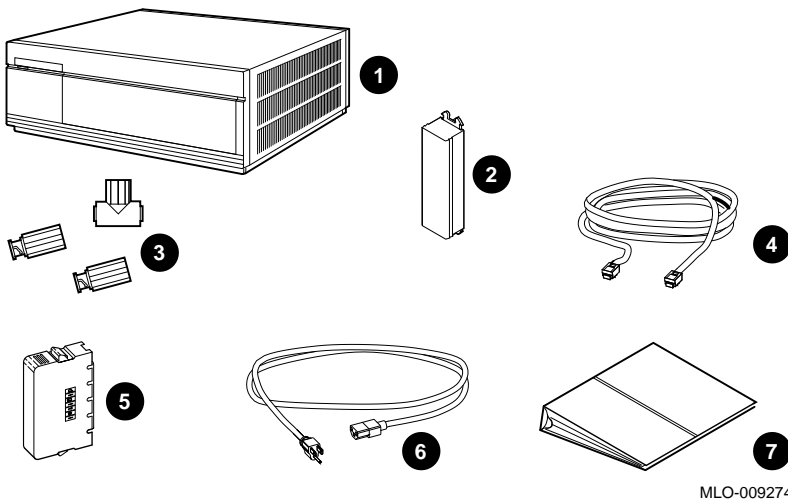
The console terminal is not supplied with the system.

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## Step 2: Unpacking the System and Identifying the Parts

1. Unpack the system.
2. Make sure that you have all the parts listed on the packing slip. The loose-piece accessory kit is shipped with all basic systems. If you do not have all the parts listed, contact your Digital Sales representative.

Figure 1-1 The VAX 4000 Model 105A System



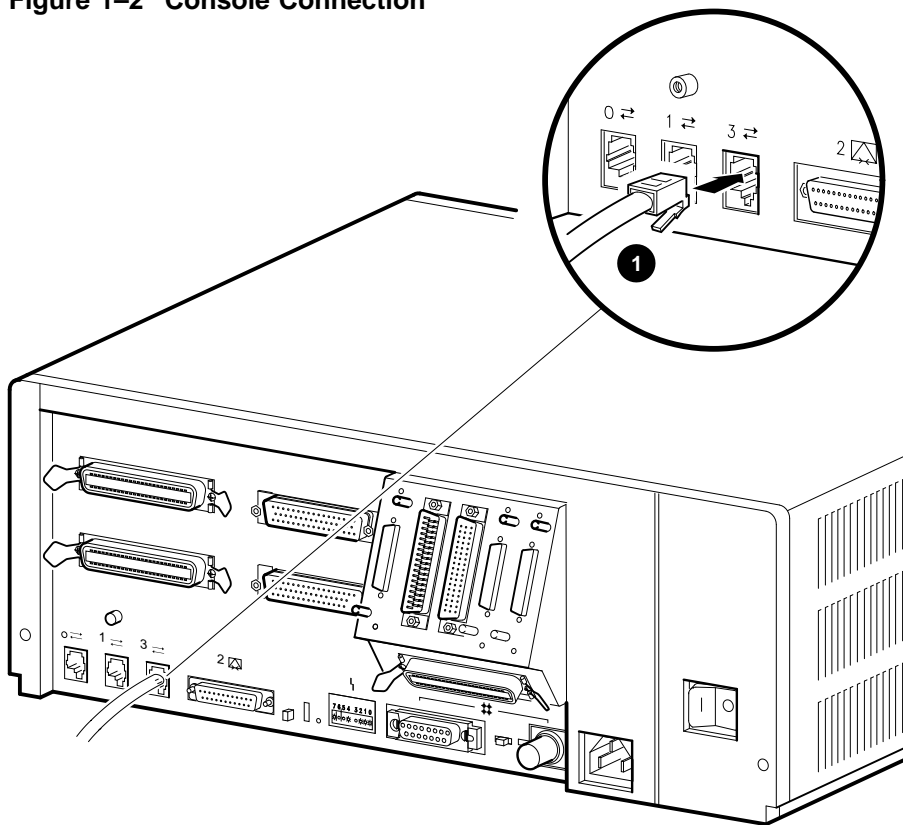
- 1 System Unit
- 2 SCSI Terminator H8574-A (PN 12-30552-01)
- 3 One ThinWire™ Ethernet T-Connector (H8223) and Two Terminators (H8225)
- 4 DEC423 Console Terminal Cable (BC16E-25)
- 5 DSSI Terminator (12-29258-01) (up to three included)
- 6 Power Cord
- 7 Documentation and Software Licenses



### Step 3: Connecting the Console Terminal

1. Connect one end of the terminal cable to the modified modular jack (MMJ) port 3. This system will be shipped with a label covering ports 0 and 1. After port 3 is properly identified as the console port, the OPA0 arrow label may be removed.
2. Connect the other end of the terminal cable to a DEC423 (MMJ) communications port on the console terminal.

Figure 1-2 Console Connection



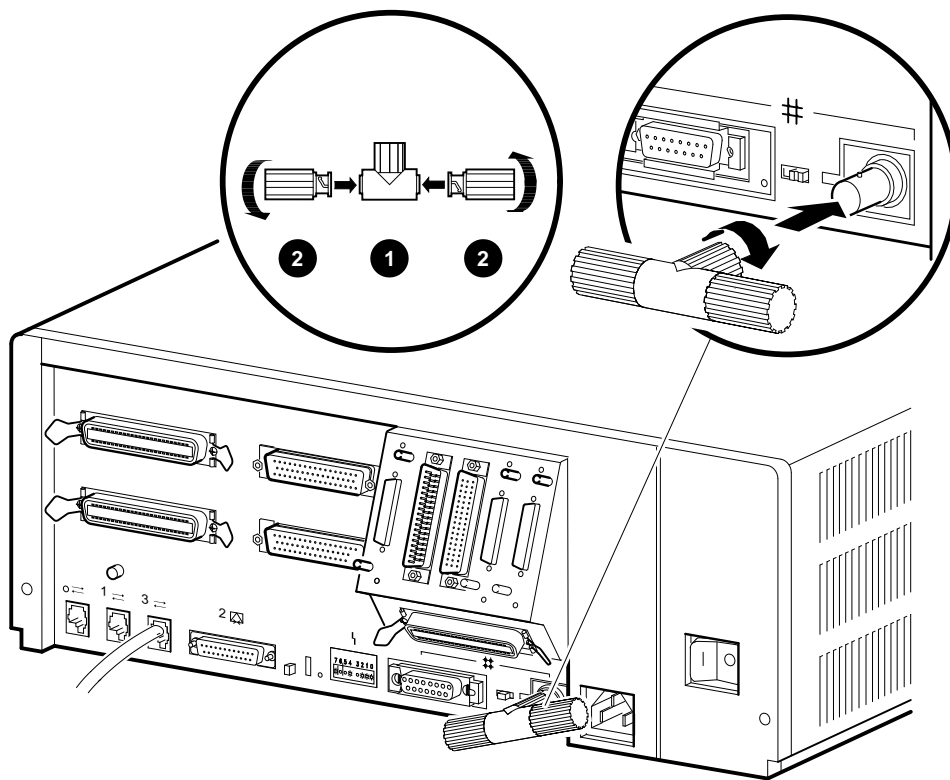
MLO-010200

1 Terminal Cable

## Step 4: Connecting the ThinWire Terminator

1. Assemble the T-connector and the two terminators to form a ThinWire terminator.
2. Connect the ThinWire terminator to the system unit.

Figure 1-3 ThinWire Termination



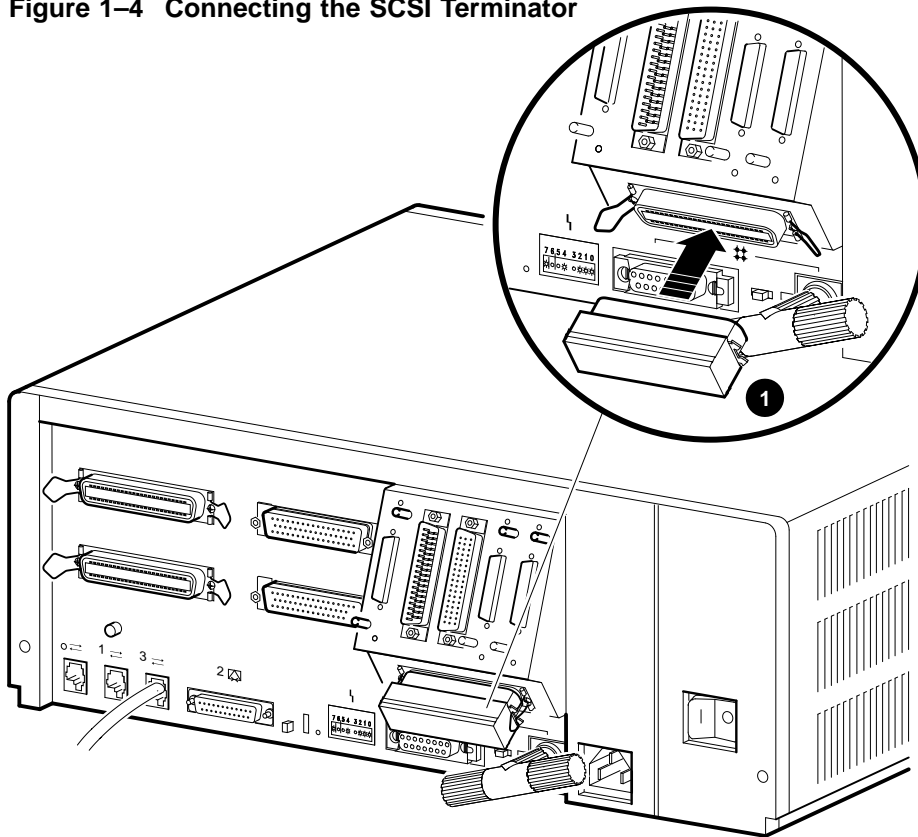
MLO-010201

- ① T-Connector
- ② Terminator

## Step 5: Connecting the SCSI Terminator

1. Connect the SCSI terminator to the SCSI port.
2. Close the bail lock loops.

Figure 1-4 Connecting the SCSI Terminator



MLO-010202

❶ SCSI Terminator

## Step 6: Connecting the DSSI Terminators

Connect all three DSSI terminators.

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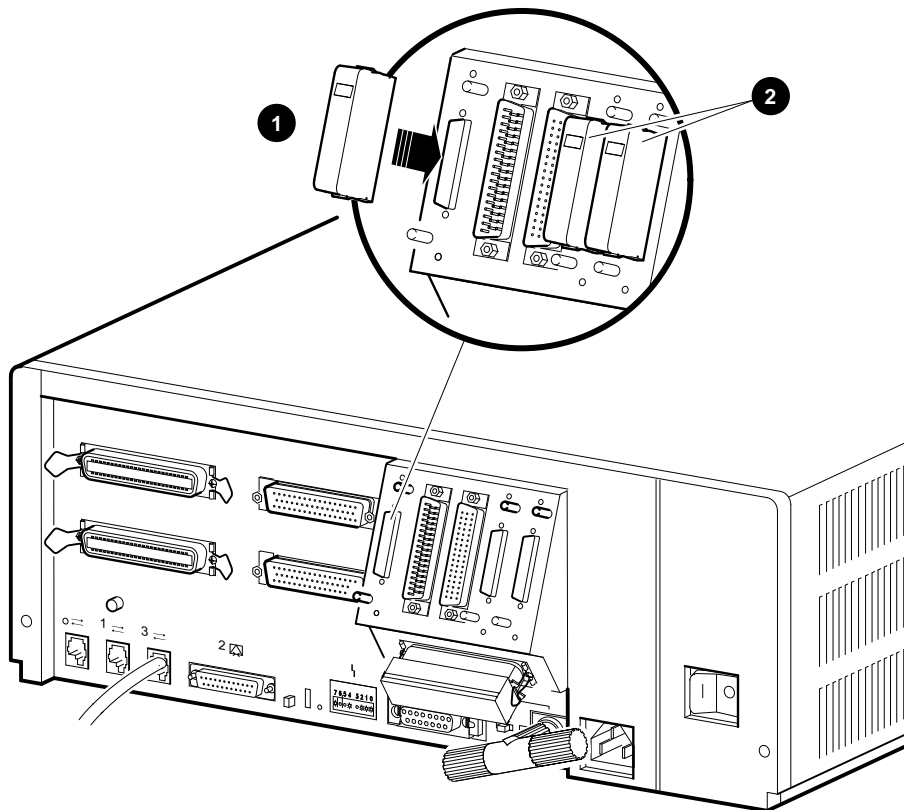
### Note

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If you ordered the KFDDA-BA single-slot-card model, only one DSSI terminator will be included and connected, and the two right-hand DSSI cutouts will be covered with blanks.

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Figure 1-5 Connecting a DSSI Terminator



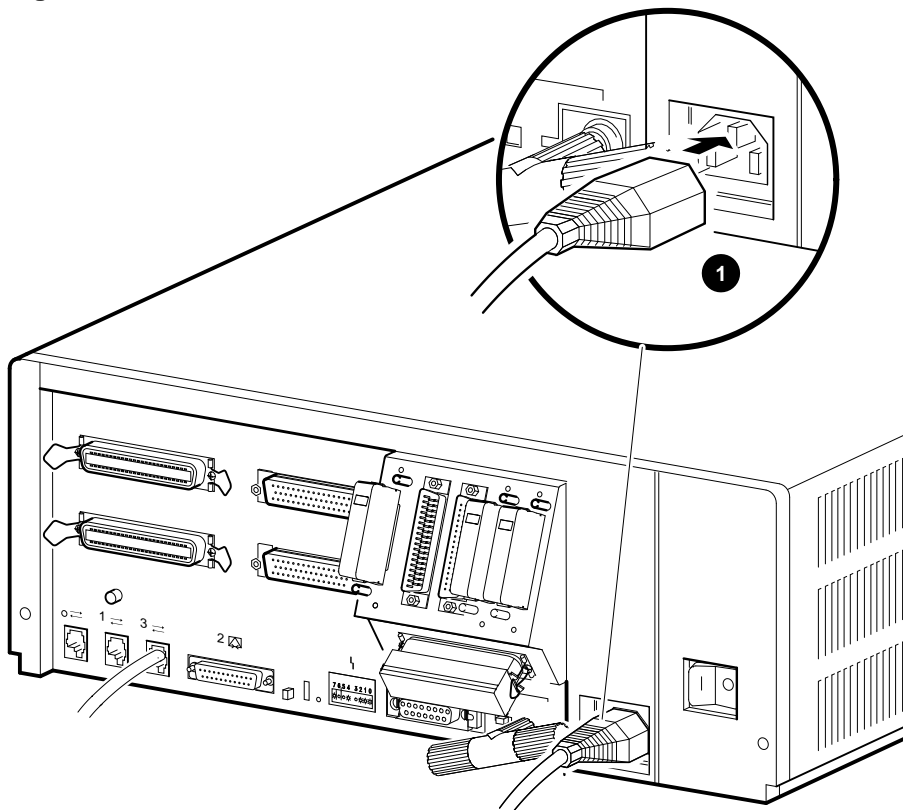
MLO-010203

- ❶ DSSI Terminator for all models
- ❷ Connected DSSI Terminators (all models except KFDDA-BA)

## Step 7: Connecting the Power Cord

1. Ensure that the on/off switch is in the off (O) position (see Figure 1-7 for switch location).
2. Connect the power cord to the system unit.
3. Connect the other end of the power cord to an isolated, grounded circuit.

Figure 1-6 Power Cord Connection



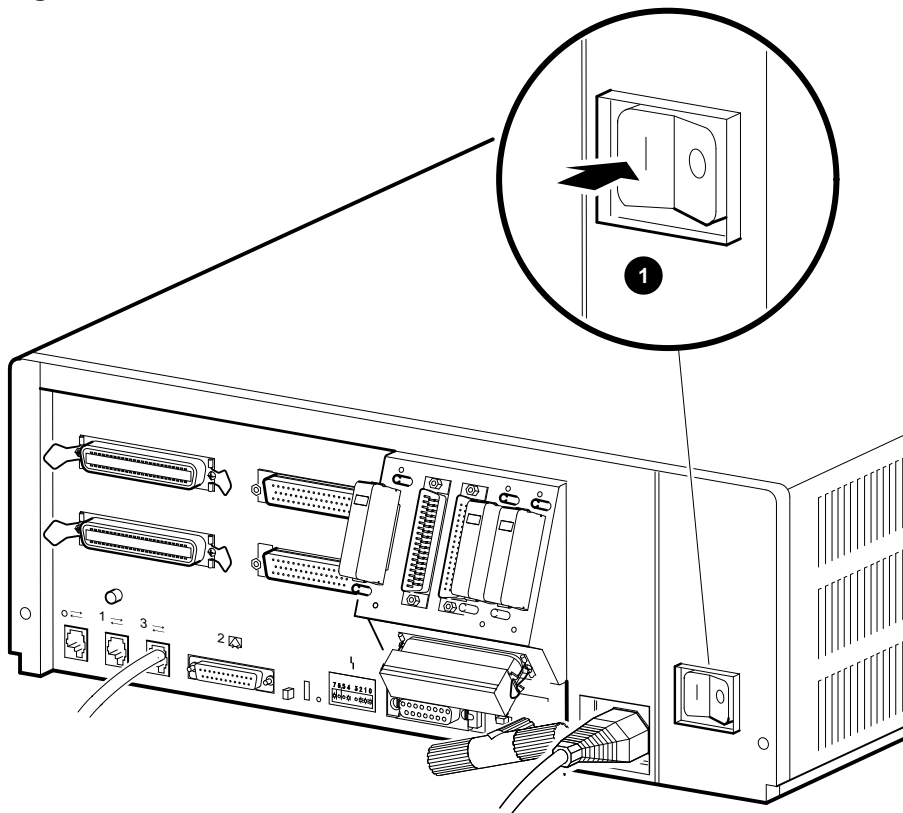
MLO-010204

❶ Power Cord

## Step 8: Turning on the Console Terminal and System Unit

1. Turn on the console terminal. Wait until it completes its power-up test. (See the terminal documentation for more information.)
2. Check the terminal settings. See the *VAX 4000 Model 105A Operator Information* manual for the list of correct settings.
3. Turn on the system unit by setting the on/off switch to the on ( | ) position.

Figure 1-7 Power Turn On



MLO-010205

- ❶ On/Off Switch (the on position ( | ) is shown)

## Step 9: Checking the Power-Up Test Results

The power-up test can take several minutes to complete, depending on the number of installed options and on which default settings you use.

1. If the power-up test results displayed on the screen are similar to the results in Example 1–1, the system has passed the power-up test. Go to step 9.
2. If the power-up test results displayed on the screen are not similar to the results in Example 1–1, the system has not passed the power-up test. See Example 1–2 for a typical failure.

### Example 1–1 Successful Power-Up Test Screen

```
KA53-A VX.X, VMB 2.14 ❶
Performing normal system tests.
72..71..70..69..68..67..66..65..64..63..62..61..60..59..58..57..
56..55..54..53..52..51..50..49..48..47..46..45..44..43..42..41.. ❷
40..39..38..37..36..35..34..33..32..31..30..29..28..27..26..25..
24..23..22..21..20..19..18..17..16..15..14..13..12..11..10..09..
08..07..06..05..04..03..
Tests completed. ❸
>>> ❹
```

- ❶ Central Processing Unit (CPU) Name, Firmware Version Number, and Virtual Memory Boot (VMB) Version Number
- ❷ Read-Only Memory (ROM) based diagnostics countdown
- ❸ Status Message
- ❹ Console Prompt

If SIMM\_OD is not present or not plugged in correctly, the system responds with a display similar to the following example:

### Example 1–2 Unsuccessful Power-Up Test Screen

```
KA53-A VX.X, VMB 2.14
Performing normal system tests.
72..71..70..69..68..67..66..65..64..63..62..
? Test_Subtest_DC_88 Loop_Subtest=05 Err_Type=FF DE_NO_Memory_present.lis
Vec=0000 Prev_Errs=0000 P1=E04EE04E P2=00000000 P3=00000000 P4=00001006
P5=00000000 P6=7F337F7F P7=00000000 P8=00000000 P9=FFFF0000 P10=2006270C
r0=00000008 r1=21018000 r2=E04EE04E r3=80000000 r4=01000000 r5=04000000
r6=00000002 r7=00000000 r8=00000000 r9=20140758 r10=FFFFFFFE r11=FFFFFFF
dser=0000 cesr=00000000 icsr=01 pcsts=F800 pctl=FC00 cctl=00000006
bcetsts=03E0 bcedsts=0400 cefsts=00007E80 nests=00 mmcdsr=01FFFE40
mesr=00000000

Error: SIMM Set 0 (0A,0B,0C,0D), SSR = E04E
SIMM_0A = 16MB SIMM_0B = 16MB SIMM_0C = 16MB SIMM_0D = 00MB ??

Total of 0MB, 0 good pages, 0 bad pages, 0 reserved pages
Normal operation not possible.

>>>
```

- ❶ Error Message
- ❷ Error Summary showing SIMM "0D" is missing
- ❸ Status Message

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#### Note

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If a failure occurs, refer to *VAX 4000 Model 105A Troubleshooting and Diagnostics Information* manual.

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## **Step 10: Connecting the System to a Network**

If you want to connect the system to a network, see the *VAX 4000 Model 105A Operator Information* manual.

## **Step 11: Connecting External Options to the System**

If you want to connect external options to the system, see the *VAX 4000 Model 105A Operator Information* manual.

## **Step 12: Booting the Operating System**

The system is supplied with factory installed software (FIS) on the system disk. Boot the operating system following the procedures in the *VMS™ Factory Installed Software User Guide*.



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### Technical Support

If you need help deciding which documentation best meets your needs, call 800-DIGITAL (800-344-4825) and press 2 for technical assistance.

### Electronic Orders

If you wish to place an order through your account at the Electronic Store, dial 800-234-1998, using a modem set to 2400- or 9600-baud. You must be using a VT terminal or terminal emulator set at 8 bits, no parity. If you need assistance using the Electronic Store, call 800-DIGITAL (800-344-4825) and ask for an Electronic Store specialist.

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<sup>1</sup>Call to request an Internal Software Order Form (EN-01740-07).



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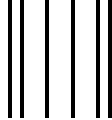
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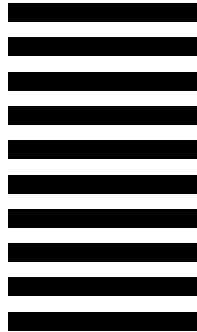
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