DEC 3000 Model 900 AXP
Upgrade Information

Order Number: EK–D39AX–UP. A01
Contents

1 Options You Can Upgrade

Overview .................................................. 1–1
Chapter Overview .................................... 1–1
Purpose of Manual .................................... 1–1
Options You Can Upgrade ................................ 1–2
Internal/External Options .............................. 1–2
External Options ........................................ 1–4
Warning ............................................... 1–8
Mounting Bracket ....................................... 1–8
What to Read Next ........................................ 1–8
Using This Manual ..................................... 1–8

2 Upgrading a VAXstation 4000 Model 90/90A

Topics Covered in This Chapter ...................... 2–1
Upgrade Procedure ..................................... 2–1
Step 1: If Your System Has Factory-Installed Drives 2–1
Step 2: Shut Down System ............................. 2–3
Step 3: Disconnect Cables ............................. 2–3
Step 4: Remove System Cover ......................... 2–3
Step 5: Remove H-Bracket ............................. 2–4
Step 6: Remove Drives from the H-Bracket ......... 2–5
Step 7: Remove SPXgt Graphics Module .......... 2–6
Step 8: Remove Removable-Media Bracket ......... 2–8
Step 9: Remove Drive from Bracket ................. 2–9
Step 10: Set SCSI IDs on Drives .................... 2–10
Step 11: Install New Mounting Brackets .......... 2–10
Note: Other Accessory Kit Brackets ................. 2–11
Step 12: Complete the Upgrade .................... 2–11
Step 13: Return Your VAXstation to Digital ....... 2–11
3 Upgrading a DECstation 5000 Model 240/260

Topics Covered in This Chapter .................................................. 3–1
Upgrade Procedure ................................................................. 3–1
  Step 1: If Your System Has Factory-Installed Drives ............... 3–1
  Step 2: Shut Down System ................................................... 3–2
  Step 3: Disconnect Cables .................................................... 3–2
  Step 4: Remove System Cover ............................................. 3–3
  Step 5: Remove Option Modules .......................................... 3–4
  Step 6: Set the SCSI IDs on the Drives .............................. 3–5
  Step 7: Complete the Upgrade .......................................... 3–5
  Step 8: Return Your DECstation to Digital ....................... 3–5

4 Upgrading a DEC 3000 Model 500/500X AXP

Topics Covered in This Chapter .................................................. 4–1
Upgrade Procedure ................................................................. 4–1
  Step 1: Removing Options ................................................... 4–1
  Mounting Brackets for Drives ........................................... 4–1
  Step 2: Set SCSI IDs on Drives .......................................... 4–1
  Step 3: Complete the Upgrade .......................................... 4–2
  Step 4: Return Your System to Digital ............................ 4–2
  Step 5: Upgrade Service Contract .................................... 4–2

A SCSI ID Settings for Drives

Setting a Unique SCSI Address ................................................... A–1
  Selecting SCSI ADDRESS .................................................. A–1
  Changing the Setting ......................................................... A–2
  Setting the Unit Select Switch .......................................... A–7
  Remote SCSI Address Jumpers .......................................... A–13

Figures

  1–1  Upgrade Kit Contents .................................................. 1–7
  2–1  SPXgt 24-Plane Graphics Module .................................. 2–6
  2–2  Removing the SPXgt 24-Plane Graphics Module ............... 2–7
  A–1  TZK10/11 Tape Drive SCSI ID Settings .......................... A–3
  A–2  RRD42 Compact Disk Drive SCSI ID Settings ................. A–4
  A–3  RRD43 Compact Disk Drive SCSI ID Settings ................. A–5
  A–4  RX26 Diskette Drive SCSI ID Settings .......................... A–6
  A–5  RX26 Unit Select Switch ............................................. A–7
Overview

This chapter contains the following topics:

- Options You Can Upgrade
- Upgrade kit contents
- Using the Manual

Purpose of Manual

The purpose of this guide is to tell customers and Digital Services which options can be removed from the current system and used, either internally or externally, in the DEC 3000 Model 900. Step-by-step instructions are provided for removing the options.
Options You Can Upgrade

**Internal/External Options**

Options that are supported internally or externally on the DEC 3000 Model 900 are listed in the following tables:

<table>
<thead>
<tr>
<th>Fixed Disk Drives</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>RZ23L</td>
<td></td>
</tr>
<tr>
<td>RZ24</td>
<td></td>
</tr>
<tr>
<td>RZ24L</td>
<td></td>
</tr>
<tr>
<td>RZ25</td>
<td></td>
</tr>
<tr>
<td>RZ25L</td>
<td></td>
</tr>
<tr>
<td>RZ26</td>
<td></td>
</tr>
<tr>
<td>RZ26B</td>
<td>OpenVMS support only</td>
</tr>
<tr>
<td>RZ26L</td>
<td></td>
</tr>
<tr>
<td>RZ28</td>
<td></td>
</tr>
<tr>
<td>RZ28B</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Removable-Media Drives</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRD42</td>
<td>Including tabletop devices</td>
</tr>
<tr>
<td>RRD43</td>
<td>Including tabletop devices</td>
</tr>
<tr>
<td>TLZ06</td>
<td>Including tabletop devices</td>
</tr>
<tr>
<td>TZK10</td>
<td></td>
</tr>
<tr>
<td>TZK11</td>
<td></td>
</tr>
<tr>
<td>RX26</td>
<td></td>
</tr>
</tbody>
</table>
### Options You Can Upgrade

<table>
<thead>
<tr>
<th>Graphics Modules</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMAGB–BA/BB</td>
<td></td>
</tr>
<tr>
<td>PMAGB–BC/BD</td>
<td></td>
</tr>
<tr>
<td>PMAGB–BE/BF</td>
<td></td>
</tr>
<tr>
<td>PMAGB–JA/JB</td>
<td>OSF/1 AXP support only</td>
</tr>
<tr>
<td>PMAGB–DA/DB</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>PMAGB–DC/DD</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>PMAGB–EA/EB</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>PMAGB–EC/ED</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>PMAGB–FA/FB</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>PMAG–DA/DB</td>
<td></td>
</tr>
<tr>
<td>PMAG–EA/EB</td>
<td></td>
</tr>
<tr>
<td>PMAG–FA/FB</td>
<td></td>
</tr>
<tr>
<td>PMAGC–AA/BA</td>
<td></td>
</tr>
<tr>
<td>PMAGD–AA/BA</td>
<td></td>
</tr>
<tr>
<td>AV300</td>
<td></td>
</tr>
<tr>
<td>PEXGA–AA</td>
<td>OSF/1.3 AXP support and KWS 1.3 required</td>
</tr>
<tr>
<td>PEXGA–BA</td>
<td>OSF/1.3 AXP support and KWS 1.3 required</td>
</tr>
<tr>
<td>PEXGA–CA</td>
<td>OSF/1.3 AXP support and KWS 1.3 required</td>
</tr>
<tr>
<td>PEXGA–AB</td>
<td>OSF/1.3 AXP support and KWS 1.3 required</td>
</tr>
<tr>
<td>PEXGA–AC</td>
<td>OSF/1.3 AXP support and KWS 1.3 required</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Memory</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS15–BA</td>
<td></td>
</tr>
<tr>
<td>MS15–CA</td>
<td></td>
</tr>
<tr>
<td>MS15–DA</td>
<td></td>
</tr>
<tr>
<td>MS15–EA</td>
<td></td>
</tr>
<tr>
<td>MS15–FA</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TURBOchannel Options</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEFTA–FA</td>
<td></td>
</tr>
</tbody>
</table>
Options You Can Upgrade

External Options

Options that are supported externally on the DEC 3000 Model 900 are listed in the following tables:

<table>
<thead>
<tr>
<th>Expansion Boxes</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>SZ16</td>
<td></td>
</tr>
<tr>
<td>SZ03</td>
<td></td>
</tr>
<tr>
<td>SZ12</td>
<td></td>
</tr>
<tr>
<td>PMTe</td>
<td>Minimum revision required is D03</td>
</tr>
<tr>
<td>BA350</td>
<td></td>
</tr>
<tr>
<td>BA353</td>
<td></td>
</tr>
</tbody>
</table>
## Options You Can Upgrade

<table>
<thead>
<tr>
<th>Tape/Disk Drives</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>RZ55</td>
<td></td>
</tr>
<tr>
<td>RZ56</td>
<td></td>
</tr>
<tr>
<td>RZ57</td>
<td>Requires firmware update 6000</td>
</tr>
<tr>
<td>RZ58</td>
<td></td>
</tr>
<tr>
<td>RZ73</td>
<td></td>
</tr>
<tr>
<td>RZ74</td>
<td></td>
</tr>
<tr>
<td>RX23</td>
<td>OSF/1 AXP support only</td>
</tr>
<tr>
<td>TKZ08</td>
<td>OSF/1 AXP support only</td>
</tr>
<tr>
<td>TKZ09</td>
<td></td>
</tr>
<tr>
<td>TLZ04</td>
<td></td>
</tr>
<tr>
<td>TZ30</td>
<td></td>
</tr>
<tr>
<td>TZ85</td>
<td></td>
</tr>
<tr>
<td>TZ86</td>
<td></td>
</tr>
<tr>
<td>TZ87</td>
<td></td>
</tr>
<tr>
<td>TZ867</td>
<td>Requires DEC NSR for OSF/1 AXP support</td>
</tr>
<tr>
<td>TZ875</td>
<td>Requires DEC NSR for OSF/1 AXP support</td>
</tr>
<tr>
<td>TZ877</td>
<td>Requires DEC NSR for OSF/1 AXP support</td>
</tr>
<tr>
<td>TZ857</td>
<td>Requires DEC NSR for OSF/1 AXP support</td>
</tr>
<tr>
<td>TSZ07</td>
<td></td>
</tr>
<tr>
<td>RWZ01</td>
<td>OpenVMS support only</td>
</tr>
<tr>
<td>TKZ60</td>
<td></td>
</tr>
</tbody>
</table>
### Options You Can Upgrade

<table>
<thead>
<tr>
<th>Monitors</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>VRC21-H%</td>
<td></td>
</tr>
<tr>
<td>VR319-CA</td>
<td>Appropriate 66 Hz graphics option required</td>
</tr>
<tr>
<td>VR319-DA</td>
<td></td>
</tr>
<tr>
<td>VR320-CA</td>
<td>Appropriate 66 Hz graphics option required</td>
</tr>
<tr>
<td>VR320-DA</td>
<td></td>
</tr>
<tr>
<td>VRC16-H%</td>
<td></td>
</tr>
<tr>
<td>VRM17-A%</td>
<td></td>
</tr>
<tr>
<td>VRM17-H%</td>
<td></td>
</tr>
<tr>
<td>VRT16-H%</td>
<td></td>
</tr>
<tr>
<td>VRT19-DA</td>
<td>Appropriate 66 Hz graphics option required</td>
</tr>
<tr>
<td>VRT19-H%</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Input Devices</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>VSXXX-AB</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>VSXXX-FA</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>VSXXX-AA</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>VSXXX-JA</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>VSXXX-GA</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>LK201/LK401</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>VSX10-AA/A3</td>
<td></td>
</tr>
<tr>
<td>VSX20-AA/A3</td>
<td></td>
</tr>
<tr>
<td>VSX30-AA/A3</td>
<td></td>
</tr>
</tbody>
</table>
Figure 1–1 Upgrade Kit Contents

System Kit:
- System Unit
- Ethernet Loopback Connector
- Universal Strain Relief Strap
- Network Label
- Antistatic Wrist Straps (2)
- Modem Loopback Connector
- Screwdriver
- Mouse with Mousepad*
- Keyboard
- Documentation
- Printer Port Terminator
- Keys (Attached to System Unit)
- System Power Cord

Accessory Kit:
- Upgrade Guide
- TZ30 RFI Shield
- Rubber Grommets
- Metal Support Plate
- RX26 Bezel
- RX26 Brackets
- Screws
- Return Address Label

*included in some configurations
Options You Can Upgrade

Warning

Attach an antistatic wrist strap before you begin this upgrade. As you remove options from your system, place them on an antistatic mat.

Static discharge can cause irreparable damage to options modules.

Mounting Bracket

If you are upgrading a disk drive from a VAXstation 4000 Model 90/90A or a DECstation 5000 Model 240/260 to a DEC 3000 system, you must attach a mounting bracket provided in the accessory kit to each drive before installing it into your new system.

If you are upgrading a disk drive from a DEC 3000 Model 500/500X AXP, the correct mounting bracket is already attached.

What to Read Next

Using This Manual

Use the following table to determine which upgrade procedure to use.

<table>
<thead>
<tr>
<th>If you have this workstation...</th>
<th>Go to...</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAXstation 4000-90/90A</td>
<td>Chapter 2</td>
</tr>
<tr>
<td>DECstation 5000-240/260</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>DEC 3000-500/500X AXP</td>
<td>Chapter 4</td>
</tr>
</tbody>
</table>
Upgrade Procedure

Step 1: If Your System Has Factory-Installed Drives

If your DEC 3000 system has factory-installed drives, you may need to change the SCSI IDs on the drives you are upgrading.

To determine the SCSI ID settings on your drives:

1. Shut down your software following the instructions in your software documentation.
2. Put the VAXstation into console mode by pressing the halt button located behind the door on the front of the system unit.
3. Enter the `SHOW CONFIG` command.

A screen similar to the following appears:

```bash
>>> show config
KN4n-4 Vn.n
08-00-2B-0A-7D-CB
32 MB
DEVNBR DEVNAM INFO
--------------------------------------
1      NVR      OK
2      LCSPX    OK
.      .        .
10     SCSI     0-RZ24  3-RZ25

This information shows an RZ24 drive set to SCSI ID 0 and an
RZ25 drive set to SCSI ID 3.

Write down your system drives and SCSI ID settings here. You
will need them for future use.
Upgrade Procedure

Step 2: Shut Down System

Turn off the system unit by pressing 0 on the On/Off switch on the front of the system unit.

**Caution:** After you turn off the system, wait 15 seconds before unplugging the power cord.

Step 3: Disconnect Cables

Disconnect all cables from the rear of the system unit.

Disconnect the power cord from the wall outlet and then from the system unit.

Step 4: Remove System Cover

Release the latches on the right side. Then pull the cover up and away. You need to pull forcefully to release the retention devices.
Upgrade Procedure

**Step 5:**
**Remove H-Bracket**

To remove the H-bracket from the VAXstation system unit:

1. Push in on the cantilever catch on the bracket (as shown) and lift the bracket straight up with the strap handle.

2. Disconnect the SCSI and power cables from the drives in the bracket.
Step 6: Remove Drives from the H-Bracket

To remove a drive from the H-bracket:

1. Press down on the latch on the front of the bracket.
2. Slide the drive forward until you can pull it up and out of the bracket.
3. Set the drive aside on an antistatic mat.
Step 7: Remove SPXgt Graphics Module

If your system has an SPXgt graphics module, you must remove it before you can remove the removable-media device from the system unit. If you do not have an SPXgt graphics module, go to step 8.

To remove the graphics module:

1. Remove the plastic E-clip \( \text{E-clip} \) that holds the graphics module to the frame buffer. (See Figure 2–2.)

2. Lift the frame buffer from the center connector \( \text{connector} \), then free it from the ridge \( \text{ridge} \) on the disk drive H-bracket. Gently work the frame buffer free by pulling up from the center of the module.

3. Pull the frame buffer out of the RFI gasket (shown in Figure 2–1). The gasket will remain in place, held by the video connector bracket on the graphics module.
Upgrade Procedure

Figure 2–2 Removing the SPXgt 24-Plane Graphics Module

MLO-008745

Upgrading a VAXstation 4000 Model 90/90A  2–7
Step 8: Remove Removable-Media Bracket

To remove the bracket:

1. Disconnect the SCSI and power cables from the removable-media drive.

2. Push down the latch on the rear of the drive bracket and push the drive back until the front bezel clears the bezel opening in the system unit.

3. Release the two cantilever catches (shown) on the removable-media bracket and lift the bracket out of the system unit.
Step 9: Remove Drive from Bracket

Follow these steps:

1. Hold down the locking latch and push the drive back to loosen it.

2. Spread apart the cantilever latches on the bracket and lift the drive out.

3. Set the drive aside on an antistatic mat.
Upgrade Procedure

Step 10: Set SCSI IDs on Drives

If your DEC 3000 system has a factory-installed disk drive, it is set to SCSI ID 3.

Check the SCSI ID settings you noted earlier. If one of the drives you are upgrading is set to SCSI ID 3, then change that setting.

See Appendix A for the SCSI ID drive settings.

Step 11: Install New Mounting Brackets

To attach the new mounting bracket and rubber grommets to a fixed disk drive, follow these steps:

1. Place the metal support plate on the disk drive as shown in the following figure.

2. Screw the four rubber grommets (from your accessory kit) onto the plate and the drive until the plate is secure.
Upgrade Procedure

Note: Other Accessory Kit Brackets

Install the RX26 bracket extensions as shown.

Step 12: Complete the Upgrade

1. Instructions for installing options that you have removed from your current system can be found in the DEC 3000 Model 800/800S/900 Options Guide. Follow the instructions in the DEC 3000 Model 800/800S/900 Owner's Guide to complete the upgrade.

2. Update the customer service contract to the DEC 3000 Model 900 AXP system.

Step 13: Return Your VAXstation to Digital

Return your VAXstation and any devices that are not upgradeable to Digital.

1. Pack the VAXstation and devices securely in packing material.

2. Attach the return-address label that was in your upgrade kit.
Upgrading a DECstation 5000 Model 240/260

Topics Covered in This Chapter

- Upgrading your system
- Removing modules
- Completing the upgrade

Upgrade Procedure

Step 1: If Your System Has Factory-Installed Drives

If your DEC 3000 AXP system has factory-installed drives, you may need to change the SCSI IDs on the drives you are upgrading.

To display the SCSI ID settings of the drives in your expansion box:

1. Enter the command to shut down the software and put the system in console mode: `shutdown -h now`
2. Enter `cnfg 3` at the console prompt (`>>>`). A screen similar to the following appears:

```
>>> cnfg 3
3: KNO2 DEC Vn.n TCF0 (12 MB)
   (enet: 08-00-2b-30-14-df)
   (SCSI = 7)
```

<table>
<thead>
<tr>
<th>DEV</th>
<th>PID</th>
<th>VID</th>
<th>REV</th>
<th>SCSI ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>rz2</td>
<td>RZ24</td>
<td>(C)</td>
<td>DEC</td>
<td>0700 DIR</td>
</tr>
<tr>
<td>rz5</td>
<td>RX26</td>
<td>(C)</td>
<td>DEC</td>
<td>0700 SEQ</td>
</tr>
</tbody>
</table>

This sample display shows an RZ24 drive set to SCSI ID 2 and an RX26 drive set to SCSI ID 5.

Write down the names of your system drives and SCSI ID settings here. You will need them for future use.

---

**Step 2: Shut Down System**

Turn off the system unit by pressing 0 on the On/Off switch on the back of the system unit.

**Caution:** After you turn off the system, wait 15 seconds before unplugging the power cord.

**Step 3: Disconnect Cables**

Disconnect all the cables from the back of the system unit.

Disconnect the power cord from the wall outlet and then from the system unit.
Step 4: Remove System Cover

1. Loosen the captive screw on the back of the system unit. This screw can be loosened but not removed.

2. Grasp each side of the cover with your hands, and pull the cover straight toward the front about 5.5 cm (2 inches). Pull the cover up and set it aside.
Upgrade Procedure

**Step 5: Remove Option Modules**

The system unit holds up to three graphics or TURBOchannel modules. Modules can occupy one, two, or three slots.

1. Use a Phillips screwdriver to remove the option slot screws, then the support post screws.
2. Lift the front of the module to disconnect the slot connectors, then lift the module out of the option slot opening.
Upgrade Procedure

**Step 6: Set the SCSI IDs on the Drives**

If your DEC 3000 AXP system has a factory-installed disk drive, it is set to SCSI ID 3. Check the SCSI ID settings you noted earlier. If one of the drives you are upgrading is also set to SCSI ID 3, change that setting.

See the expansion box documentation for the SCSI ID drive settings.

**Step 7: Complete the Upgrade**

1. Instructions for installing options that you have removed from your current system can be found in the DEC 3000 Model 800/800S/900 Options Guide. Follow the instructions in the DEC 3000 Model 800/800S/900 Owner's Guide to complete the upgrade.

2. Update the customer service contract to the DEC 3000 Model 900 AXP system.

**Step 8: Return Your DECstation to Digital**

Return your DECstation and any devices that are not upgradeable to Digital.

1. Pack the DECstation and devices securely in packing material.

2. Attach the return-address label that was in your upgrade kit.
Upgrading a DEC 3000 Model 500/500X AXP

Topics Covered in This Chapter

• Upgrading your system
• Removing options
• Completing the upgrade

Upgrade Procedure

Step 1: Removing Options
If you have a DEC 3000 Model 500/500X AXP, refer to the DEC 3000 Model 800/800S/900 AXP Options Guide included with your upgrade system for information on removing fixed disk drives, removable media drives, and graphics options.

Mounting Brackets for Drives
You need not install the mounting brackets provided in the upgrade kit. They are identical to the brackets already installed on your fixed disk drives.

Step 2: Set SCSI IDs on Drives
If your DEC 3000 AXP system has a factory-installed disk drive, it is set to SCSI ID 3. Check the SCSI ID settings you noted earlier. If one of the drives you are upgrading is also set to SCSI ID 3, change that setting.

See Appendix A for the SCSI ID drive settings.
Upgrade Procedure

**Step 3: Complete the Upgrade**

1. Follow the instructions in the DEC 3000 Model 800/800S/900 AXP Options Guide to install the options in your new system.
2. Follow the instructions in the DEC 3000 Model 800/800S/900 AXP Owner’s Guide to complete the upgrade.

**Step 4: Return Your System to Digital**

Return your Model 500/500X system as follows:

1. Pack the system unit securely in the packing material that the Model 900 came in.
2. Attach the return-address label that came in the upgrade accessory kit.

**Step 5: Upgrade Service Contract**

Contact your Digital service representative to upgrade your hardware service contract.
Setting a Unique SCSI Address

Each internal drive has a SCSI address that must be unique. If more than one drive is set to the same SCSI address, the system cannot communicate with the drives.

When your drive arrives from the factory, all SCSI jumpers may be attached so that they are not lost during shipment. If this is the case, the address is set to 7, and must be changed.

TURBOchannel modules and memory modules do not have SCSI addresses.

This appendix contains an illustration for each of the drives supported on the DEC 3000 Model 900 AXP system.

Selecting SCSI ADDRESS

There are six possible SCSI ID settings (SCSI ID setting 7 is reserved for the controller). The following table shows the settings that Digital recommends.

<table>
<thead>
<tr>
<th>Drive Type</th>
<th>SCSI ID Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed disk drive</td>
<td>0,1,2,3</td>
</tr>
<tr>
<td>Compact disk drive</td>
<td>4</td>
</tr>
<tr>
<td>Tape or diskette drive</td>
<td>5</td>
</tr>
<tr>
<td>Tape or diskette drive</td>
<td>6</td>
</tr>
</tbody>
</table>
Changing the Setting

Follow these steps to change a SCSI ID setting:

**Jumpers:**

Jumpers are removable electrical connectors. Carefully remove or replace jumpers using tweezers or another small tool. Save any SCSI jumpers you remove; you may need them later.

**Switches:**

Carefully set the switches using a small pointed instrument, such as the tip of a ball-point pen. Do not use a pencil to set the SCSI switches; graphite particles can damage switches.
Before using the TZK10 drive, configure the drive, that is, check the DADS jumper to make sure it is set for the desired operating system. The DADS jumper is the fifth jumper from the right side, and must be in place for both OpenVMS AXP and DEC OSF/1 AXP operating systems.
Mode Jumper

The mode jumper allows the drive to work with your operating system. The jumper must be in place for both Open VMS AXP and DEC OSF/1 AXP operating systems.
Figure A–3  RRD43 Compact Disk Drive SCSI ID Settings

SCSI Address Settings: 0

1  2  4 Parity

2  1  2  4 Parity

3  1  2  4 Parity

4  1  2  4 Parity

5  1  2  4 Parity

6  1  2  4 Parity

Mode (Parity) Jumper

The mode (parity) jumper allows the drive to work with your operating system. The jumper must be in place for both Open VMS AXP and DEC OSF/1 AXP operating systems.
Figure A–4  RX26 Diskette Drive SCSI ID Settings
Setting the Unit Select Switch

Make sure that the unit select switch is set to 2, as shown in Figure A–5.

Figure A–5 RX26 Unit Select Switch
Figure A–6  TZ30 SCSI Switches

SCSI Address Settings: 0, 1, 2, 3, 4, 5, 6
Figure A–7  TLZ06 Tape Drive SCSI ID Settings

Mode Switch

Switch 5 (Mode) allows the drive to work with your operating system, and must be down for both OpenVMS AXP and DEC OSF/1 AXP operating systems.
Figure A–8  RZ23L Fixed Disk Drive SCSI Settings

SCSI Settings:

0
1
2
3
4
5
6

MLO-010587

SCSI ID Settings for Drives
Figure A–9  RZ24L/24 Fixed Disk Drive SCSI Settings

RZ24L Drive:

RZ24 Drive:

SCSI ID Settings for Drives

MLO-010589
Figure A–10  RZ25 Fixed Disk Drive SCSI Settings

SCSI Address Settings: 0

P1  P2  P3
0
1
2
3
4
5
6
Remote SCSI Address Jumpers

The SCSI address for the RZ25 drive is designed to be set either manually or automatically. The automatic setting is not applicable to the DEC 3000 Model 900 AXP system, therefore, you need to make sure that the first three jumpers on the left of this secondary port are removed, as shown in Figure A–11. Be careful to remove only the SCSI address jumpers; do not remove any others.

Figure A–11  RZ25 Secondary SCSI Address Port
Figure A–12  RZ25L Fixed Disk Drive SCSI Settings

SCSI Address Settings: 0
1
2
3
4
5
6
7
MLO-010904
Figure A–13  RZ26 Fixed Disk Drive SCSI Settings

SCSI Address Settings: 0

1

2

3

4

5

6

MLO-010464
Figure A–14  RZ26B Fixed Disk Drive SCSI Settings

SCSI Settings: 0

1

2

3

4

5

6

MLO-010590
Figure A–15  RZ26L Fixed Disk Drive SCSI Settings

SCSI Address Settings: 0

MLO-011277
Figure A–16  RZ28 Fixed Disk Drive SCSI Settings

SCSI Address Settings: 0

1

2

3

4

5

6

MLO-011180
Figure A–17  RZ28B Fixed Disk Drive SCSI Settings
How to Order Additional Documentation

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.

Telephone and Direct Mail Orders

<table>
<thead>
<tr>
<th>From</th>
<th>Call</th>
<th>Write</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S.A.</td>
<td>DECdirect</td>
<td>Digital Equipment Corporation</td>
</tr>
<tr>
<td></td>
<td>Phone: 800-DIGITAL</td>
<td>P.O. Box CS2008</td>
</tr>
<tr>
<td></td>
<td>(800-344-4825)</td>
<td>Nashua, NH 03061</td>
</tr>
<tr>
<td></td>
<td>Fax: (603) 884-5597</td>
<td></td>
</tr>
<tr>
<td>Puerto Rico</td>
<td>Phone: (809) 781-0505</td>
<td>Digital Equipment Caribbean, Inc.</td>
</tr>
<tr>
<td></td>
<td>Fax: (809) 749-8377</td>
<td>3 Digital Plaza, 1st Street</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Suite 200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Metro Office Park</td>
</tr>
<tr>
<td></td>
<td></td>
<td>San Juan, Puerto Rico 00920</td>
</tr>
<tr>
<td>Canada</td>
<td>Phone: 800-267-6215</td>
<td>Digital Equipment of Canada Ltd.</td>
</tr>
<tr>
<td></td>
<td>Fax: (613) 592-1946</td>
<td>100 Herzberg Road</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Kanata, Ontario, Canada K2K 2A6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Attn: DECdirect Sales</td>
</tr>
<tr>
<td>International</td>
<td>__________</td>
<td>Local Digital subsidiary or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>approved distributor</td>
</tr>
<tr>
<td>Internal Orders¹</td>
<td>DTN: 264-3030</td>
<td>U.S. Software Supply Business</td>
</tr>
<tr>
<td>(for software</td>
<td>(603) 884-3030</td>
<td>Digital Equipment Corporation</td>
</tr>
<tr>
<td>documentation)</td>
<td>Fax: (603) 884-3960</td>
<td>10 Cotton Road</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nashua, NH 03063-1260</td>
</tr>
<tr>
<td>Internal Orders</td>
<td>DTN: 264-3030</td>
<td>U.S. Software Supply Business</td>
</tr>
<tr>
<td>(for hardware</td>
<td>(603) 884-3030</td>
<td>Digital Equipment Corporation</td>
</tr>
<tr>
<td>documentation)</td>
<td>Fax: (603) 884-3960</td>
<td>10 Cotton Road</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nashua, NH 03063-1260</td>
</tr>
</tbody>
</table>

¹Call to request an Internal Software Order Form (EN-01740-07).
Your comments and suggestions help us improve the quality of our publications. Thank you for your assistance.

**I rate this manual's:**

<table>
<thead>
<tr>
<th>Category</th>
<th>Excellent</th>
<th>Good</th>
<th>Fair</th>
<th>Poor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy (product works as manual says)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Completeness (enough information)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clarity (easy to understand)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organization (structure of subject matter)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Figures (useful)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Examples (useful)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Index (ability to find topic)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Page layout (easy to find information)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

I would like to see more/less ____________________________

What I like best about this manual is _________________________________

What I like least about this manual is _________________________________

I found the following errors in this manual:

<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional comments or suggestions to improve this manual:

__________________________________________

__________________________________________

For software manuals, please indicate which version of the software you are using: ____

Name/Title ________________________________ Dept. _______________________
Company ________________________________ Date _____________
Mailing Address ______________________________ Phone ________________