

DEC 3000 Model 900 AXP

Upgrade Information

Order Number: EK-D39AX-UP. A01

Fourth Printing, July 1994

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1

Options You Can Upgrade

Overview

Chapter 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:

Fixed Disk Drives	Comment
RZ23L	
RZ24	
RZ24L	
RZ25	
RZ25L	
RZ26	
RZ26B	OpenVMS support only
RZ26L	
RZ28	
RZ28B	

Removable-Media Drives	Comment
RRD42	Including tabletop devices
RRD43	Including tabletop devices
TLZ06	Including tabletop devices
TZK10	
TZK11	
RX26	

Options You Can Upgrade

Graphics Modules	Comment
PMAGB-BA/BB	
PMAGB-BC/BD	
PMAGB-BE/BF	
PMAGB-JA/JB	OSF/1 AXP support only
PMAGB-DA/DB	DEC Open3D required for software support
PMAGB-DC/DD	DEC Open3D required for software support
PMAGB-EA/EB	DEC Open3D required for software support
PMAGB-EC/ED	DEC Open3D required for software support
PMAGB-FA/FB	DEC Open3D required for software support
PMAG-DA/DB	
PMAG-EA/EB	
PMAG-FA/FB	
PMAGC-AA/BA	
PMAGD-AA/BA	
AV300	
PEXGA-AA	OSF/1.3 AXP support and KWS 1.3 required
PEXGA-BA	OSF/1.3 AXP support and KWS 1.3 required
PEXGA-CA	OSF/1.3 AXP support and KWS 1.3 required
PEXGA-AB	OSF/1.3 AXP support and KWS 1.3 required
PEXGA-AC	OSF/1.3 AXP support and KWS 1.3 required
Memory	Comment
MS15-BA	
MS15-CA	
MS15-DA	
MS15-EA	
MS15-FA	
TURBOchannel Options	Comment
DEFTA-FA	

Options You Can Upgrade

External Options

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

Expansion Boxes	Comment
SZ16	
SZ03	
SZ12	
PMTcE	Minimum revision required is D03
BA350	
BA353	

Options You Can Upgrade

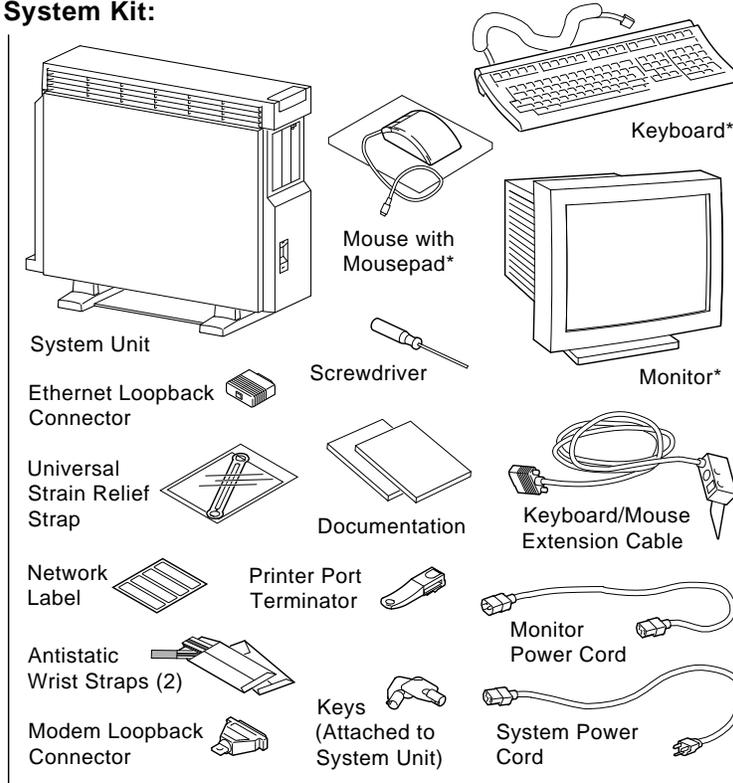
Tape/Disk Drives	Comment
RZ55	
RZ56	
RZ57	Requires firmware update 6000
RZ58	
RZ73	
RZ74	
RX23	OSF/1 AXP support only
TKZ08	OSF/1 AXP support only
TKZ09	
TLZ04	
TZ30	
TZ85	
TZ86	
TZ87	
TZ867	Requires DEC NSR for OSF/1 AXP support
TZ875	Requires DEC NSR for OSF/1 AXP support
TZ877	Requires DEC NSR for OSF/1 AXP support
TZ857	Requires DEC NSR for OSF/1 AXP support
TSZ07	
RWZO1	OpenVMS support only
TKZ60	

Options You Can Upgrade

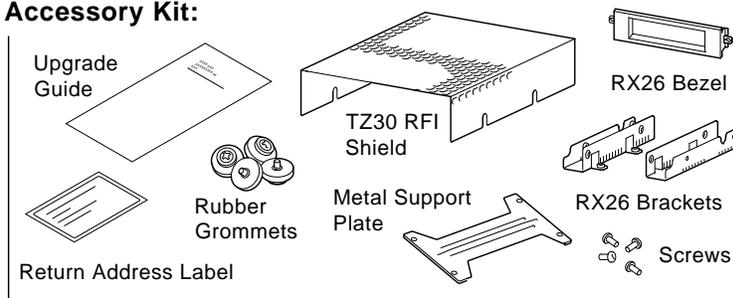
Monitors	Comment
VRC21-H%	Appropriate 66 Hz graphics option required
VR319-CA	
VR319-DA	
VR320-CA	Appropriate 66 Hz graphics option required
VR320-DA	
VRC16-H%	
VRM17-A%	
VRM17-H%	
VRT16-H%	
VRT19-DA	Appropriate 66 Hz graphics option required
VRT19-H%	
Input Devices	Comment
VSXXX-AB	
VSXXX-FA	
VSXXX-AA	
VSXXX-JA	
VSXXX-GA	
LK201/LK401	
VSX10-AA/A3	DEC Open3D required for software support
VSX20-AA/A3	DEC Open3D required for software support
VSX30-AA/A3	DEC Open3D required for software support

Figure 1-1 Upgrade Kit Contents

System Kit:



Accessory Kit:



*included in some configurations

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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.

If you have this workstation...	Go to...
VAXstation 4000-90/90A	Chapter 2
DECstation 5000-240/260	Chapter 3
DEC 3000-500/500X AXP	Chapter 4

2

Upgrading a VAXstation 4000 Model 90/90A

Topics Covered in This Chapter

- Upgrading your system
- Removing drives
- Completing the upgrade

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.

Upgrade Procedure

3. Enter the SHOW CONFIG command.

A screen similar to the following appears:

```
>>> show config
KN4n-A 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.

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.

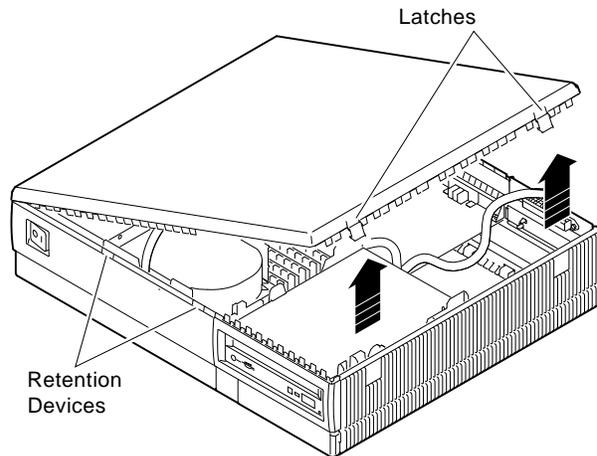
Step 3: Disconnect Cables

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.



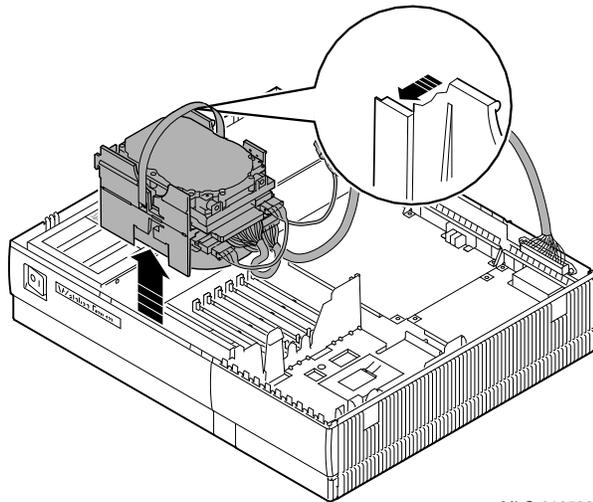
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Upgrade Procedure

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.



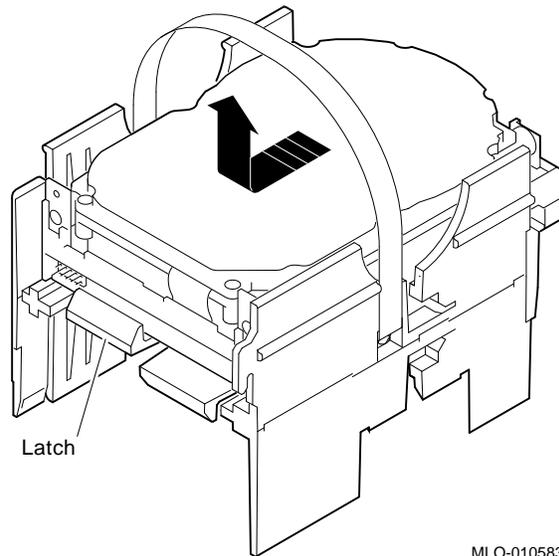
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2. Disconnect the SCSI and power cables from the drives in the bracket.

**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.



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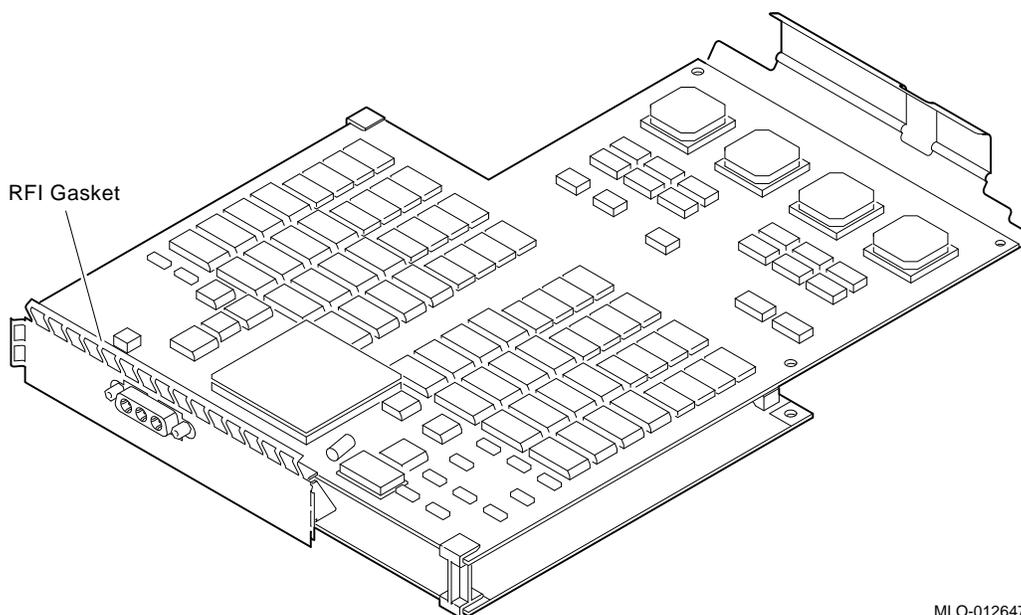
3. Set the drive aside on an antistatic mat.

Upgrade Procedure

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.

Figure 2-1 SPXgt 24-Plane Graphics Module

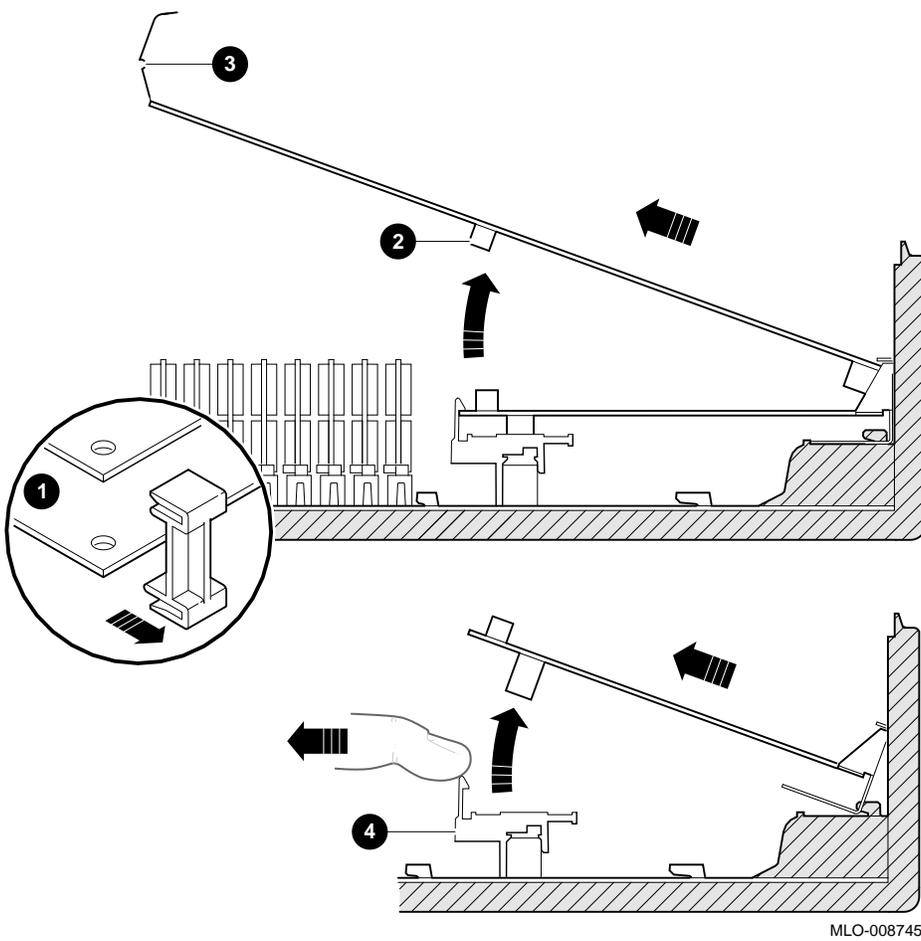


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To remove the graphics module:

1. Remove the plastic E-clip ❶ that holds the graphics module to the frame buffer. (See Figure 2-2.)
2. Lift the frame buffer from the center connector ❷, then free it from the ridge ❸ 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.

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

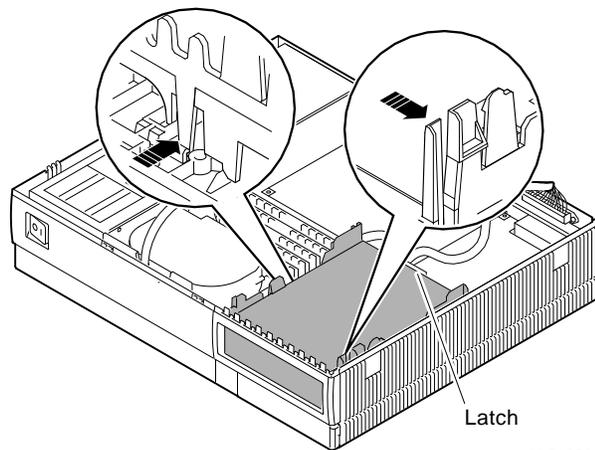


Upgrade Procedure

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.

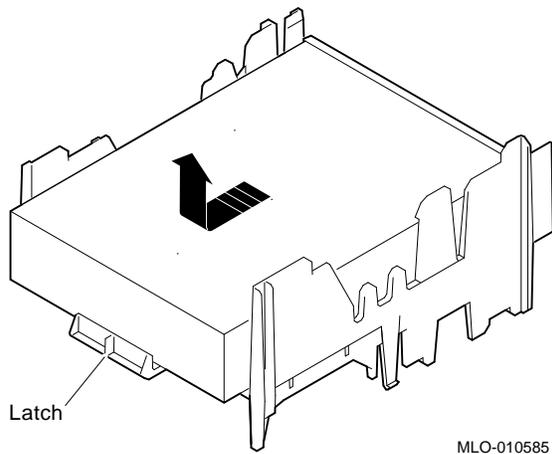


3. Release the two cantilever catches (shown) on the removable-media bracket and lift the bracket out of the system unit.

**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.



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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.

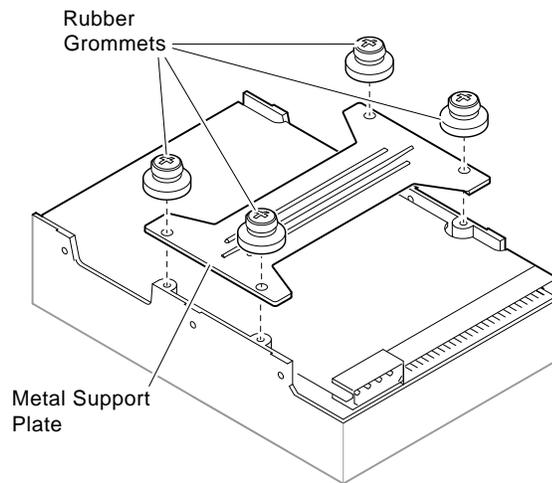
Check the SCSI ID settings you noted earlier. If one of the drives you are upgrading is set to SCSI ID 3, then change that setting.

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:

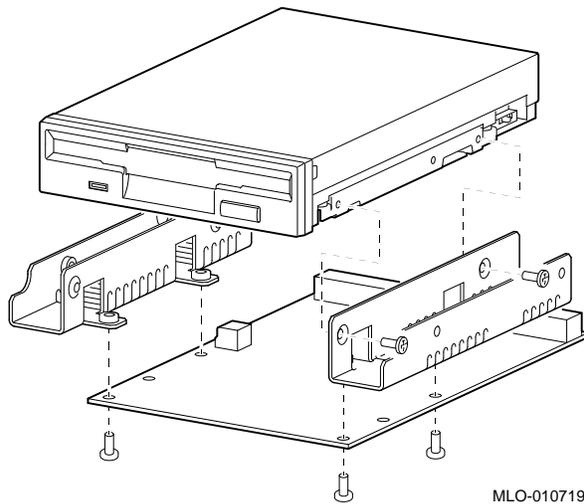
1. Place the metal support plate on the disk drive as shown in the following figure.
2. Screw the four rubber grommets (from your accessory kit) onto the plate and the drive until the plate is secure.



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**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.

3

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`

Upgrade Procedure

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)

-----
      DEV  PID      VID  REV  SCSI ID
-----
      rz2  RZ24 (C) DEC  0700  DIR
      rz5  RX26 (C) DEC  0700  SEQ
```

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.

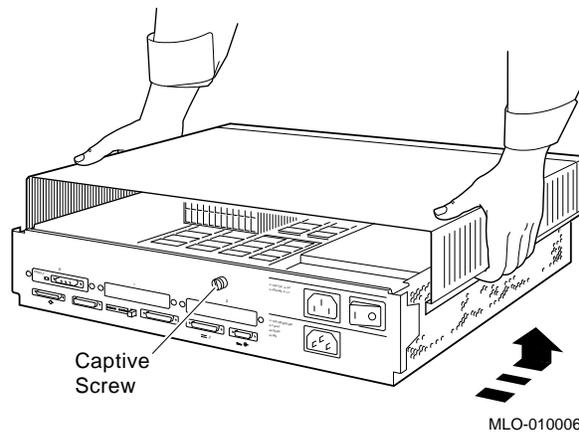
Step 3: Disconnect Cables

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**

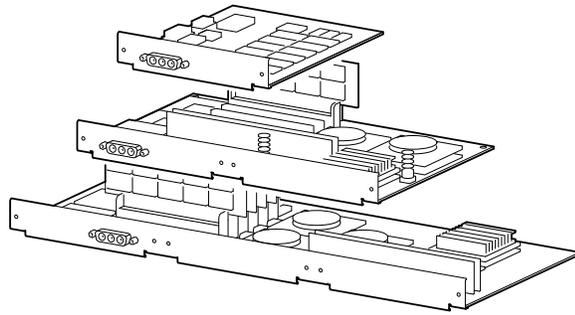
1. Loosen the captive screw on the back of the system unit. This screw can be loosened but not removed.
2. Grasp each side of the cover with your hands, and pull the cover straight toward the front about 5.5 cm (2 inches). Pull the cover up and set it aside.



Upgrade Procedure

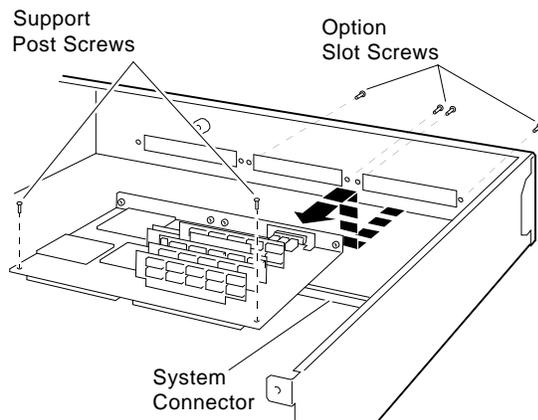
Step 5: Remove Option Modules

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



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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.



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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.

4

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.

A

SCSI ID Settings for Drives

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.

Drive Type	SCSI ID Setting
Fixed disk drive	0,1,2,3
Compact disk drive	4
Tape or diskette drive	5
Tape or diskette drive	6

Changing the Setting

Follow these steps to change a SCSI ID setting:

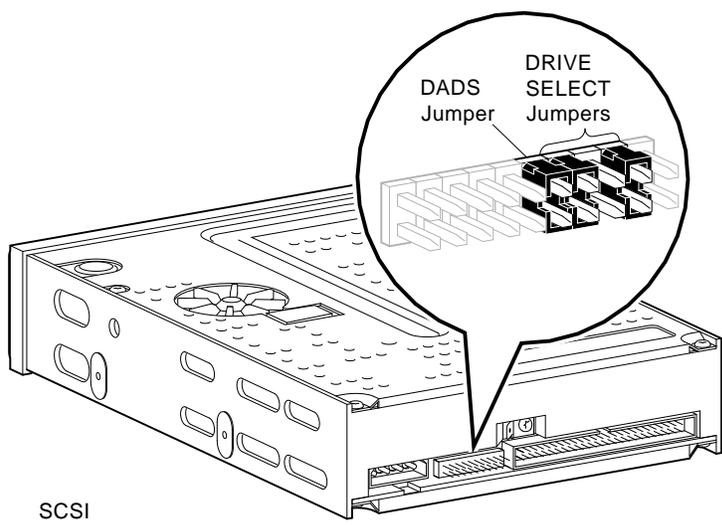
Jumpers:

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.

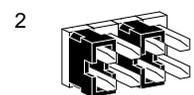
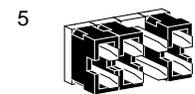
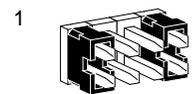
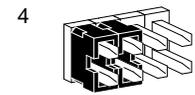
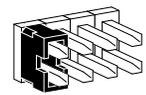
Switches:

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.

Figure A-1 TZK10/11 Tape Drive SCSI ID Settings



SCSI
Address
Settings: 0

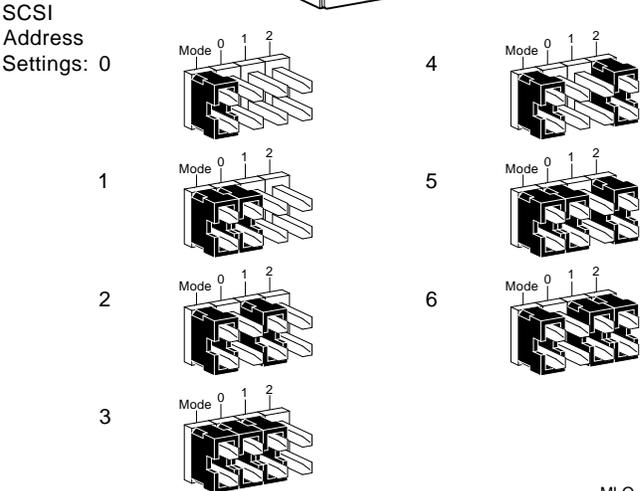
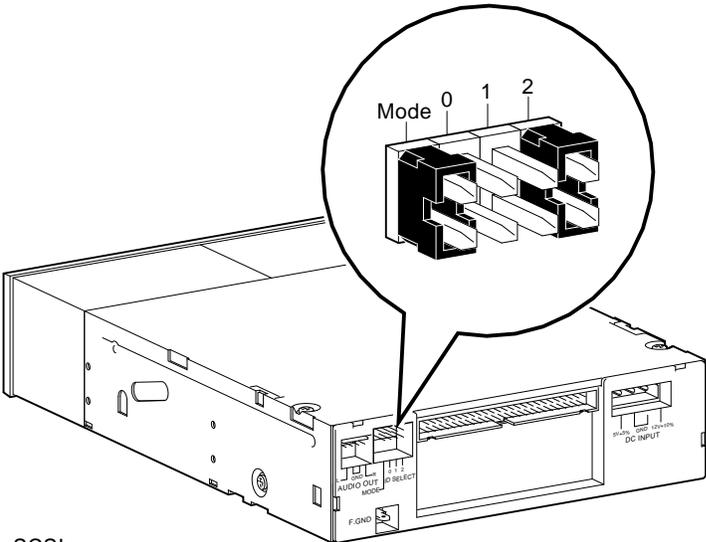


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The DADS Jumper

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.

Figure A-2 RRD42 Compact Disk Drive SCSI ID Settings

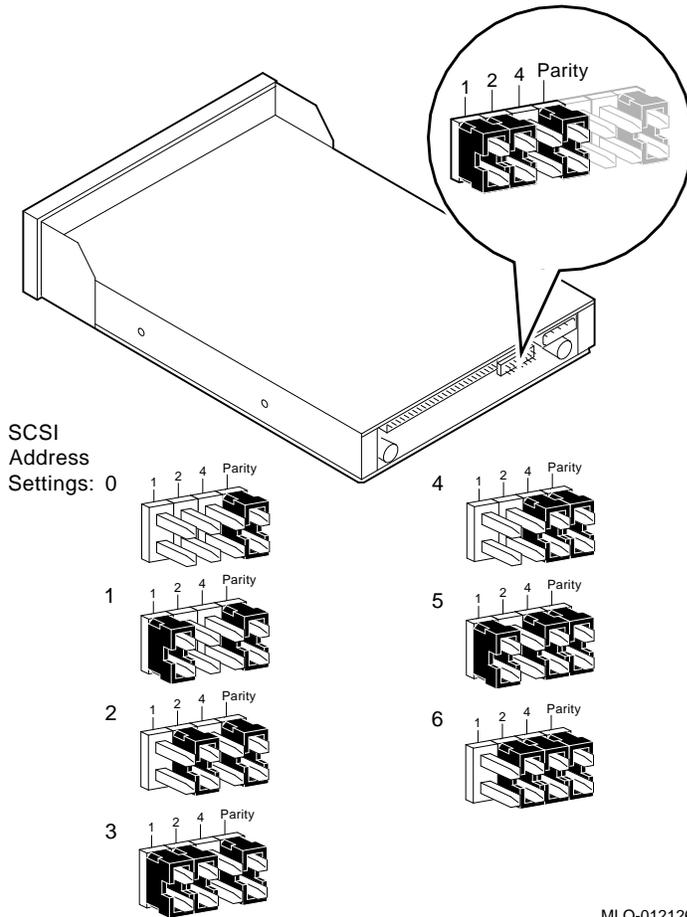


MLO-010275

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

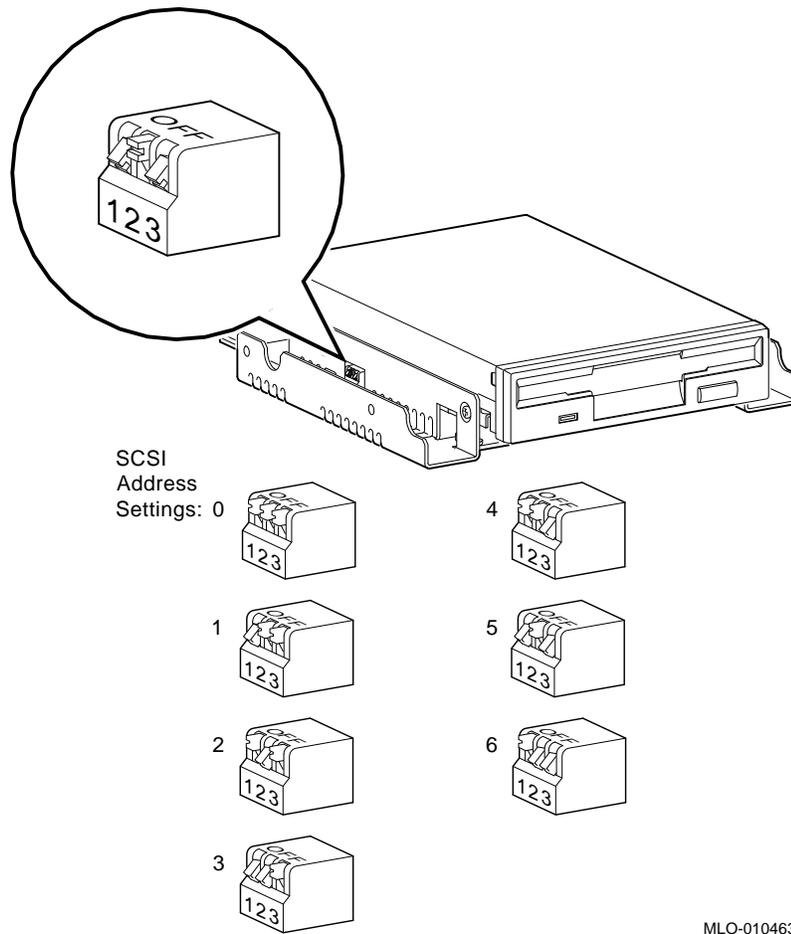


MLO-012126

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

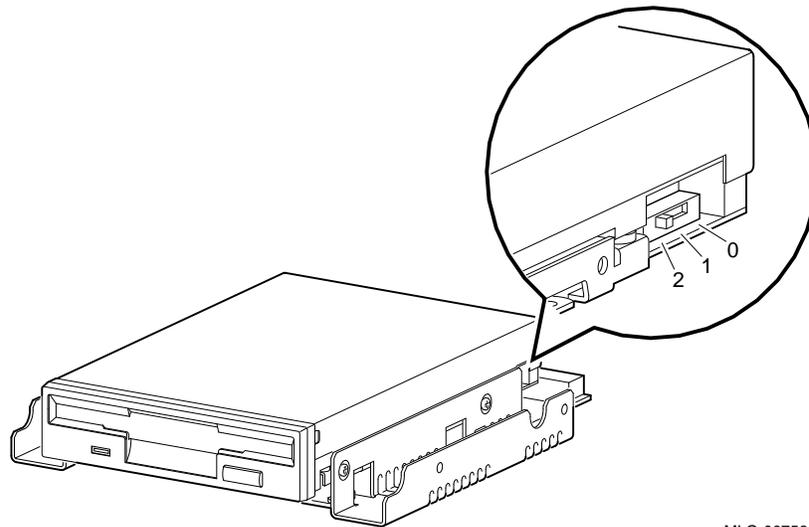


MLO-010463

Setting the Unit Select Switch

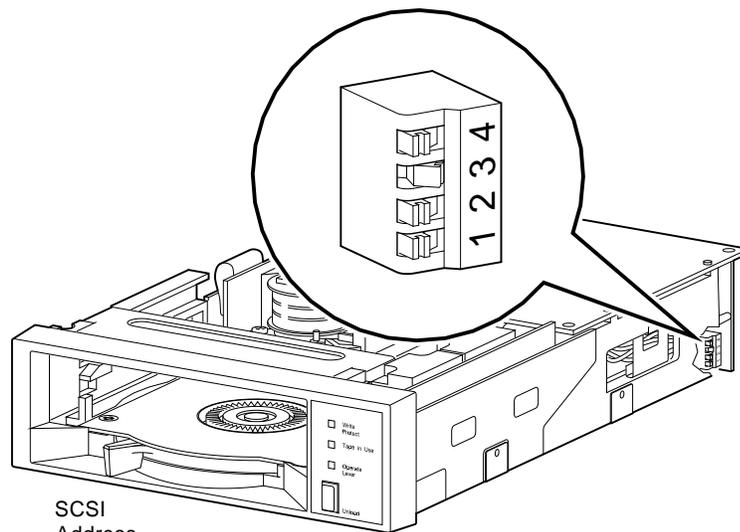
Make sure that the unit select switch is set to 2, as shown in Figure A-5.

Figure A-5 RX26 Unit Select Switch

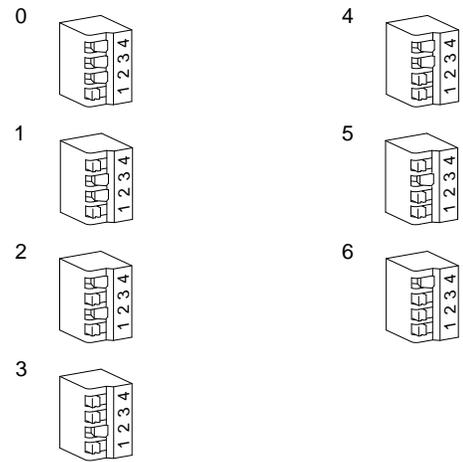


MLO-007561

Figure A-6 TZ30 SCSI Switches

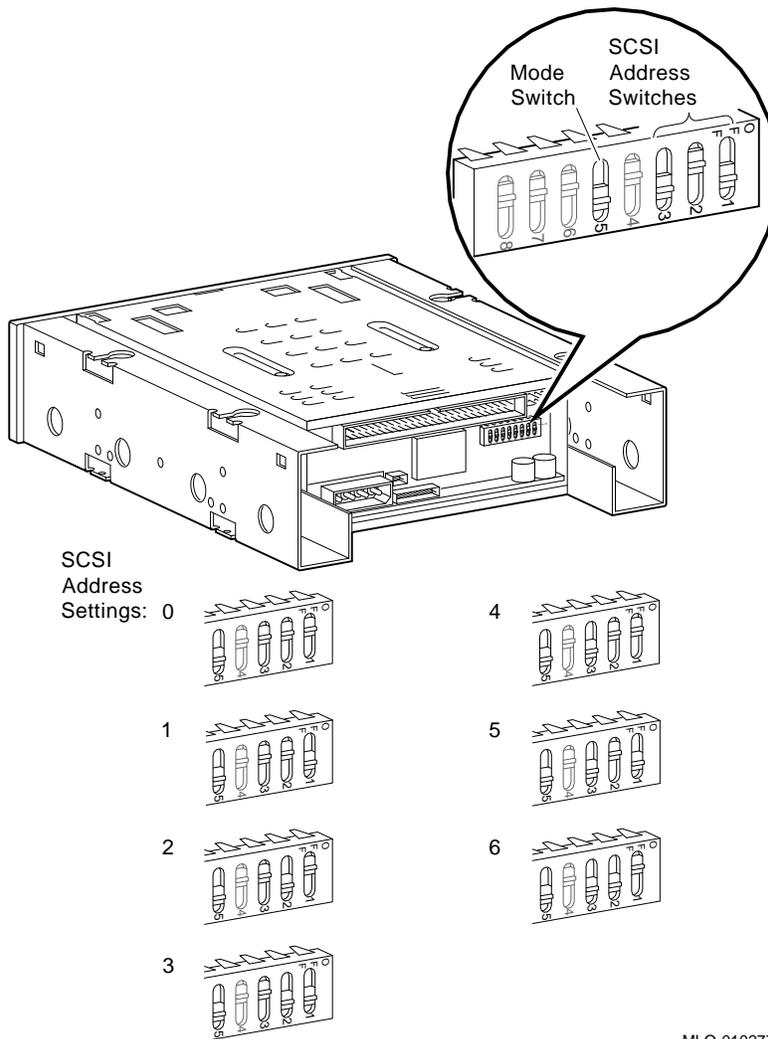


SCSI
Address
Settings:



MLO-010658

Figure A-7 TLZ06 Tape Drive SCSI ID Settings

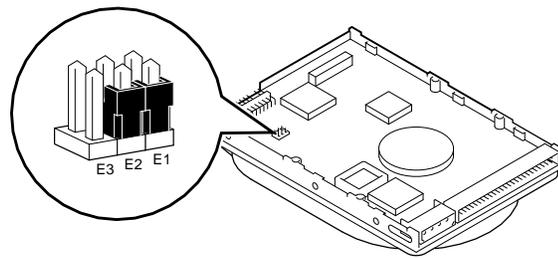


MLO-010277

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



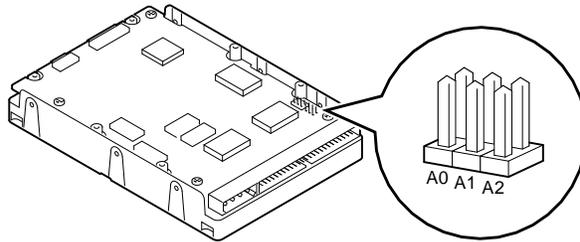
SCSI
Settings: 0



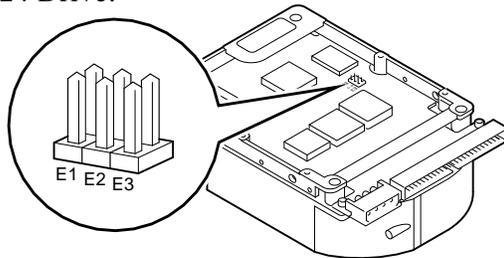
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Figure A-9 RZ24L/24 Fixed Disk Drive SCSI Settings

RZ24L Drive:



RZ24 Drive:



SCSI
Settings: 0



1



2



3



4



5

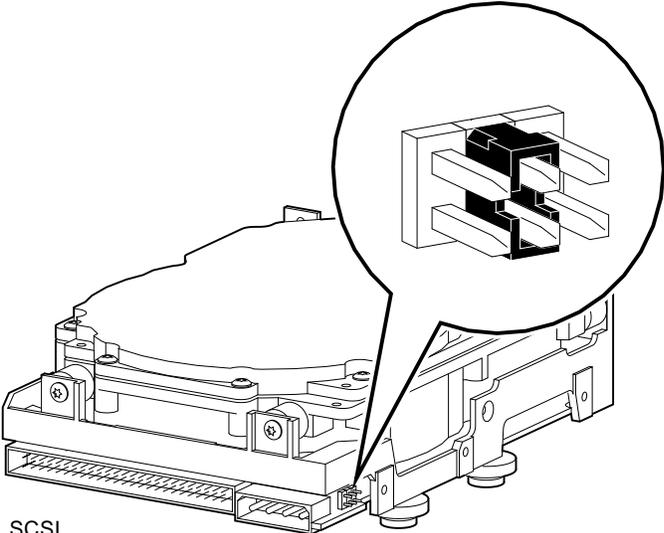


6

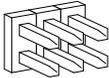


MLO-010589

Figure A-10 RZ25 Fixed Disk Drive SCSI Settings



SCSI
Address
Settings: 0



4



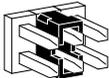
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5



2



6



3

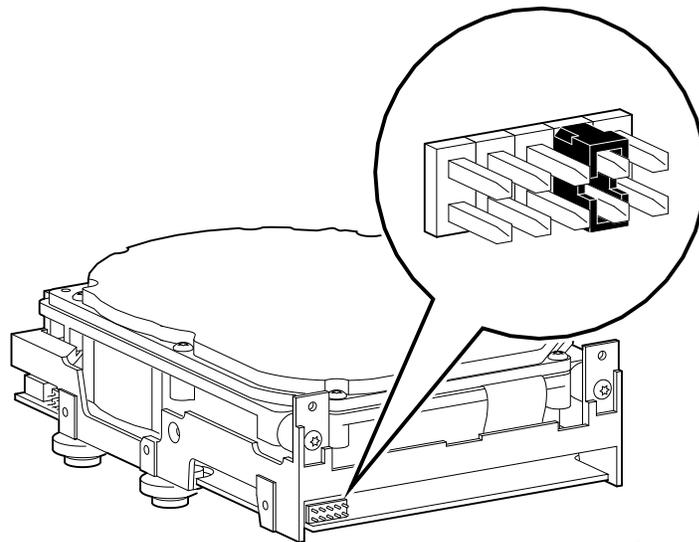


MLO-010462

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



MLO-007562

Figure A-12 RZ25L Fixed Disk Drive SCSI Settings

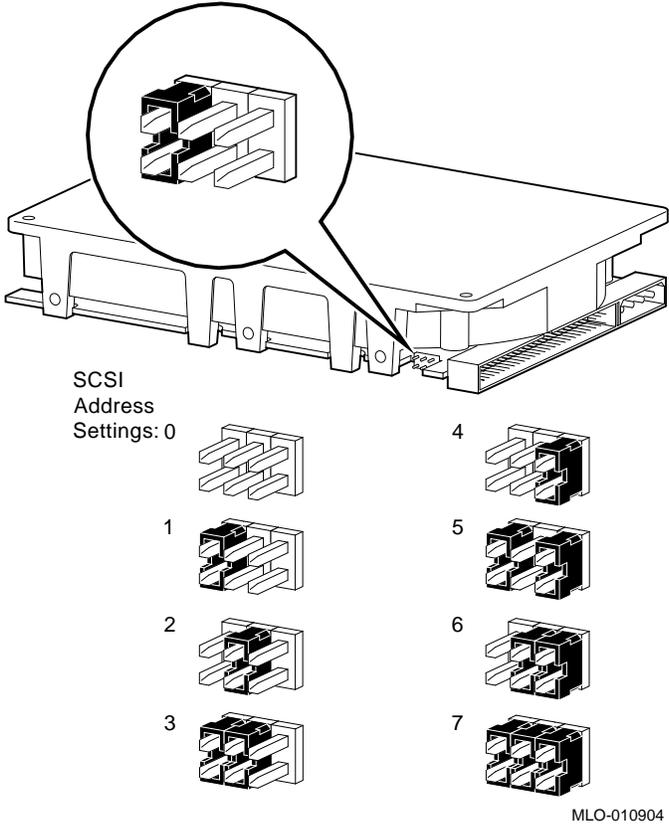
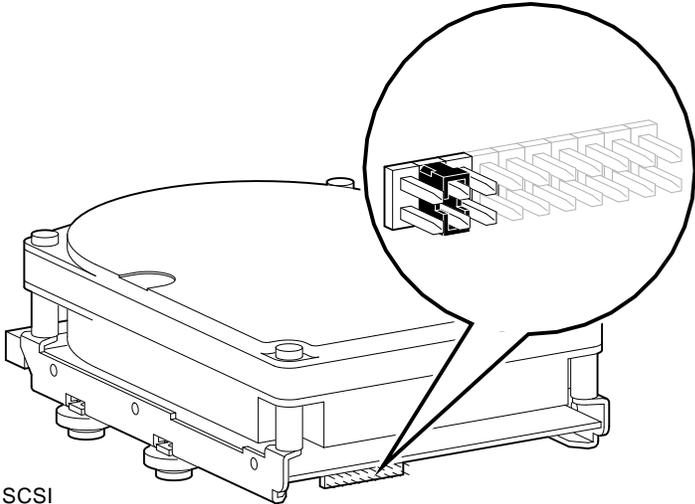
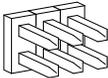


Figure A-13 RZ26 Fixed Disk Drive SCSI Settings



SCSI
Address
Settings: 0



4



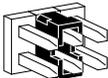
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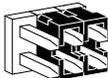
5



2



6



3



MLO-010464

Figure A-14 RZ26B Fixed Disk Drive SCSI Settings

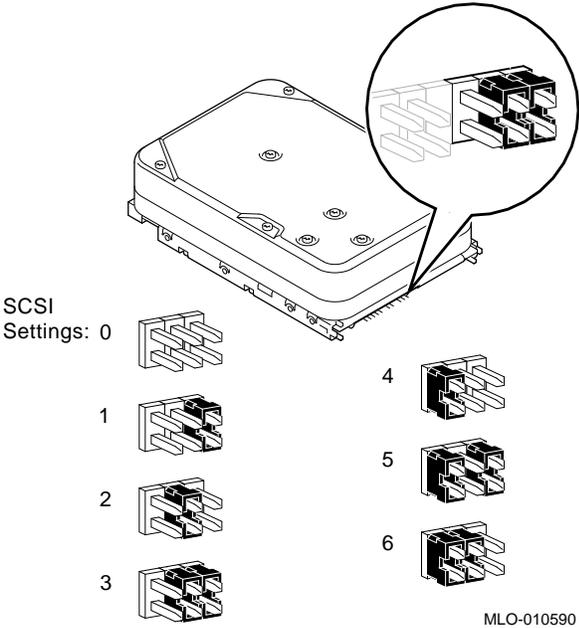
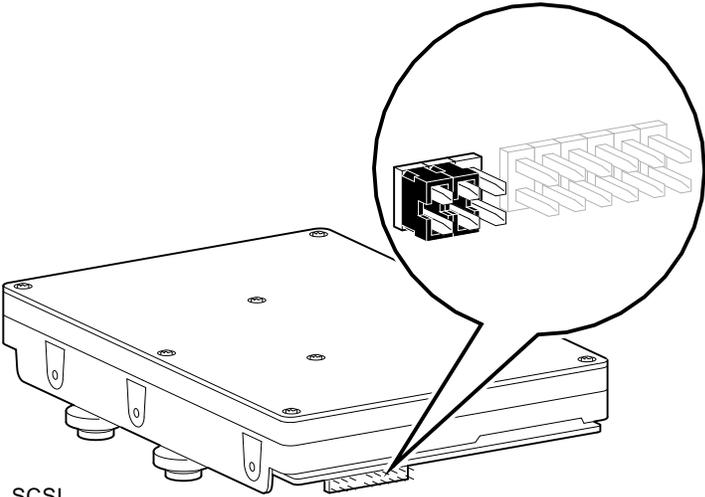
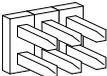


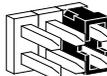
Figure A-15 RZ26L Fixed Disk Drive SCSI Settings



SCSI
Address
Settings: 0



4



1



5



2



6

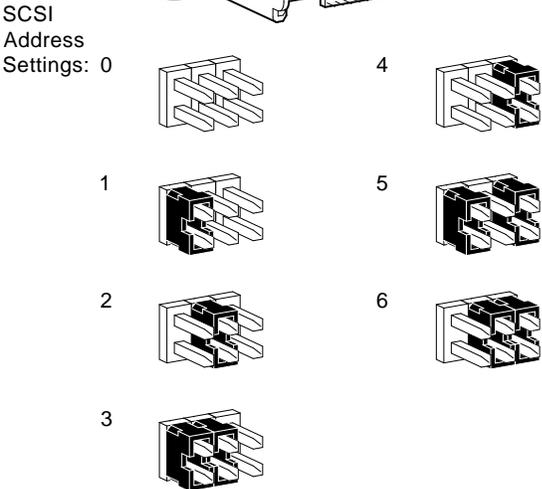
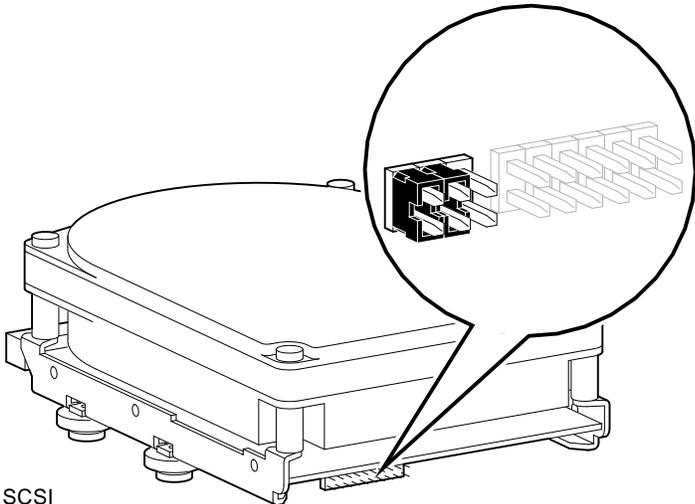


3



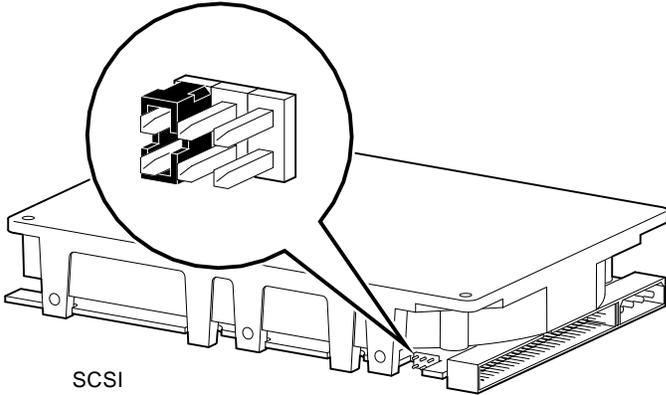
MLO-011277

Figure A-16 RZ28 Fixed Disk Drive SCSI Settings

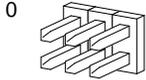


MLO-011180

Figure A-17 RZ28B Fixed Disk Drive SCSI Settings



SCSI
Address
Settings: 0



MLO-010904

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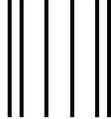
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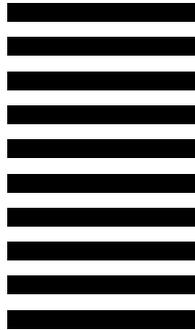
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