

DEC 3000 Model 700 AXP

Upgrade Information

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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	1-5
Warning	1-8
Mounting Bracket	1-8
What to Read Next	1-8
Using This Manual	1-8

2 Upgrading a VAXstation 4000 Model 60/90/90A

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 120/125/133/150

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	3-2
Step 5: Remove Front Drive Panel	3-4
Step 6: Remove Removable Media Drives	3-5
Step 7: Remove Fixed Disk Drives	3-5
Step 8: Remove Modules	3-6
Step 9: Set the SCSI IDs on the Drives	3-7
Step 10: Install New Mounting Bracket	3-7
Step 11: Complete the Upgrade	3-7
Step 12: Return Your DECstation to Digital	3-8

4 Upgrading a DECstation 5000 Model 200/240/260

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

5 Upgrading a DEC 3000 Model 400 AXP

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

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
A-6	TZ30 SCSI Switches	A-8
A-7	TLZ06 Tape Drive SCSI ID Settings	A-9
A-8	RZ23L Fixed Disk Drive SCSI Settings	A-10
A-9	RZ24L/24 Fixed Disk Drive SCSI Settings	A-11
A-10	RZ25 Fixed Disk Drive SCSI Settings	A-12
A-11	RZ25 Secondary SCSI Address Port	A-13
A-12	RZ25L Fixed Disk Drive SCSI Settings	A-14
A-13	RZ26 Fixed Disk Drive SCSI Settings	A-15
A-14	RZ26B Fixed Disk Drive SCSI Settings	A-16
A-15	RZ26L Fixed Disk Drive SCSI Settings	A-17
A-16	RZ28 Fixed Disk Drive SCSI Settings	A-18
A-17	RZ28B Fixed Disk Drive SCSI Settings	A-19

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 700. 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 700 are listed in the following tables:

Fixed Disk Drives	Comment
RZ23L	
RZ24L	
RZ24	
RZ25	
RZ25L	
RZ26	
RZ26B	OpenVMS support only
RZ26L	
RZ28	
RZ28B	
Removable-Media Drives	Comment
RRD42	Including tabletop device
RRD43	Including tabletop device
TLZ06	Including tabletop device
TZK10	
TZK11	
RX26	
TZ30	

Options You Can Upgrade

TURBOchannel Options	Comment
DEFTA-FA	
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-DB/DA	
PMAG-EA/EB	
PMAG-FA/FB	
PMAGC-AA	
PMAGC-BA	
PMAGD-AA	
PMAGD-BA	
PMAGD-CA	
AV300-AA	
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

Options You Can Upgrade

Memory	Comment
MS15-BA	
MS15-CA	
MS15-DA	
MS15-EA	
MS15-FA	

**External
Options**

Options that are supported externally on the DEC 3000 Model 700 are listed in the following tables:

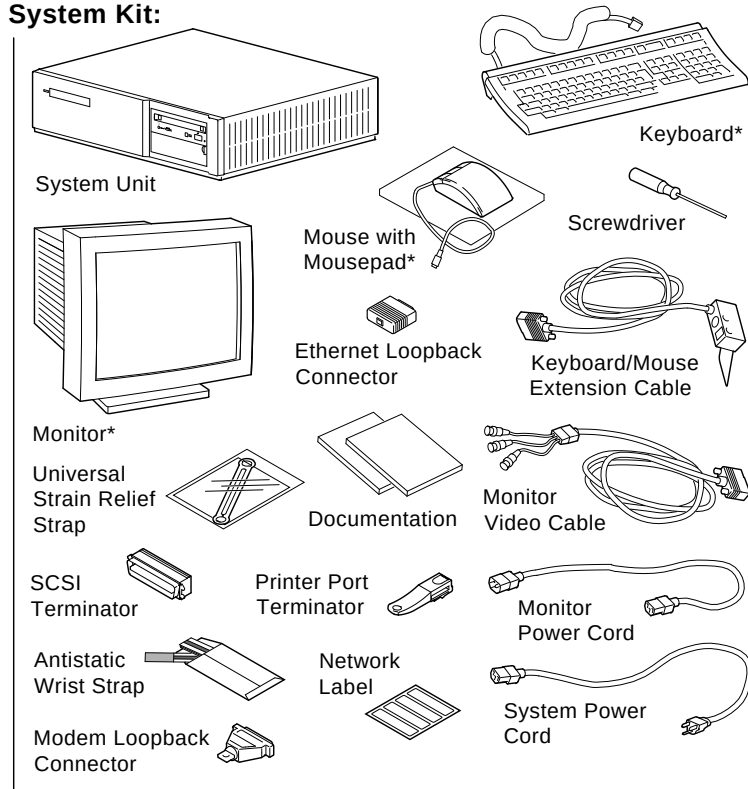
Expansion Boxes	Comment
BA350	
BA353	
SZ03	
SZ12	
SZ16	
Disk/Tape Drives	Comment
TZ85	
TZ86	
TZ87	
TZ857	Requires DEC NSR for OSF/1 support
TZ867	Requires DEC NSR for OSF/1 support
TZ875	Requires DEC NSR for OSF/1 support
TZ877	Requires DEC NSR for OSF/1 support
RZ55	
RZ56	
RZ57	Requires firmware update 6000
RZ58	
RZ73	
RZ74	
TSZ07	
TLZ04	
RWZ01	OpenVMS support only
RX23	OSF/1 support only
TKZ08	OSF/1 support only
TKZ09	
TKZ60	

Options You Can Upgrade

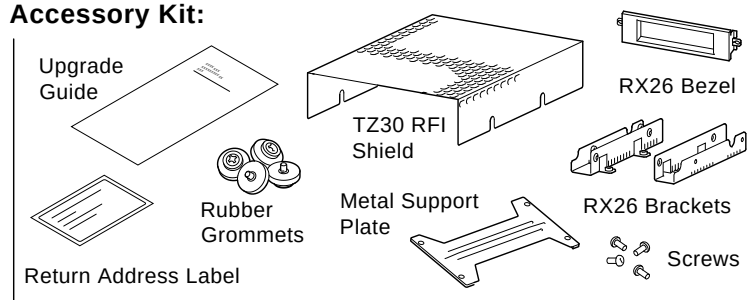
Monitors	Comment
VRC21-H%	Appropriate 66 Hz graphics option required
VR319-CA	
VR319-DA	
VR320-CA	Appropriate 66 Hz graphics option required
VR320-DA	
VRC16-H%	
VRM17-A%	Appropriate 66 Hz graphics option required
VRM17-H%	
VRT16-H%	
VRT19-DA	
VRT19-H%	
Input Devices	Comment
VSXXX-AB	DEC Open3D required for software support
VSXXX-FA	
VSXXX-AA	
VSXXX-JA	
VSXXX-GA	
LK401/201	
VSX10-AA/A3	
VSX20-AA/A3	
VSX30-AA/A3	

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 60/90/90A, a DECstation 5000 Model 120/125/133/150, or a DECstation 5000 Model 200/240/260 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 400 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 4000-60/90/90A	Chapter 2
DECstation 5000-120/125/133/150	Chapter 3
DECstation 5000-200/240/260	Chapter 4
DEC 3000-400	Chapter 5

2

Upgrading a VAXstation 4000 Model 60/90/90A

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.

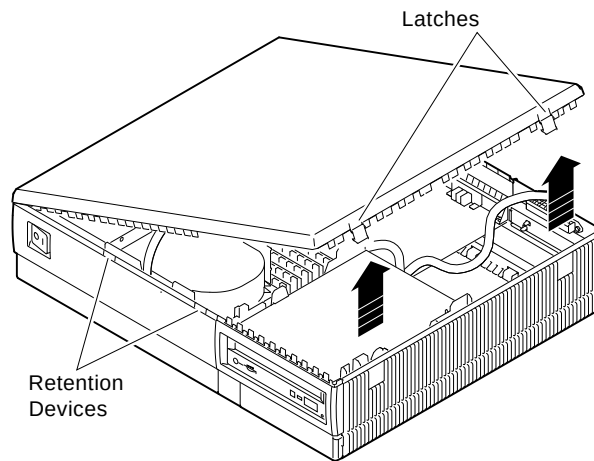
Caution: After you turn off the system, wait 15 seconds before unplugging the power cord.

**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.



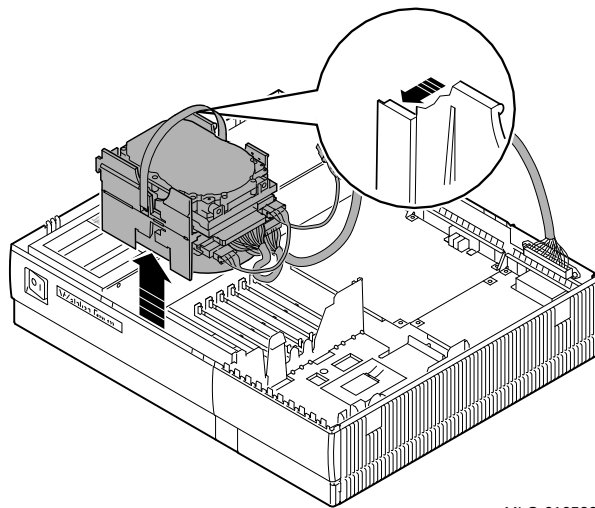
MLO-010581

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.



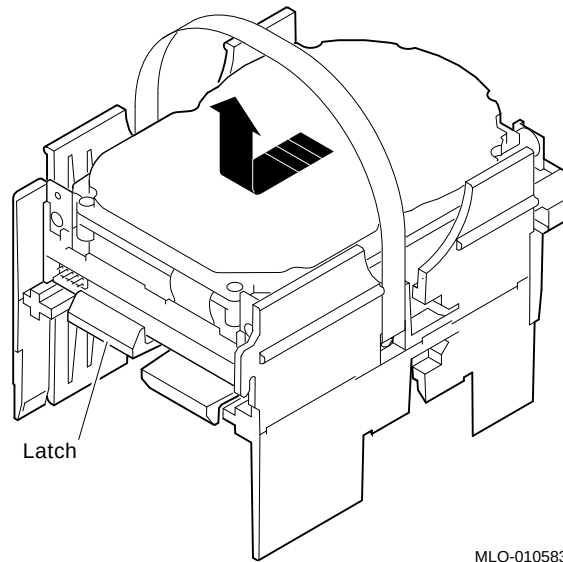
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2. Disconnect the SCSI and power cables from the drives in the bracket.

**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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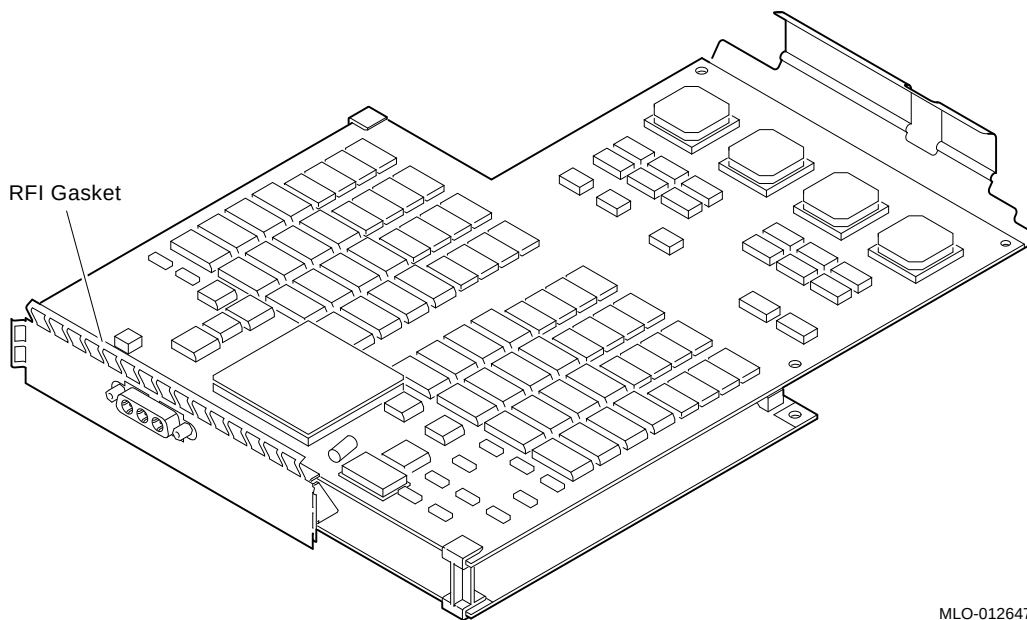
3. Set the drive aside on an antistatic mat.

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

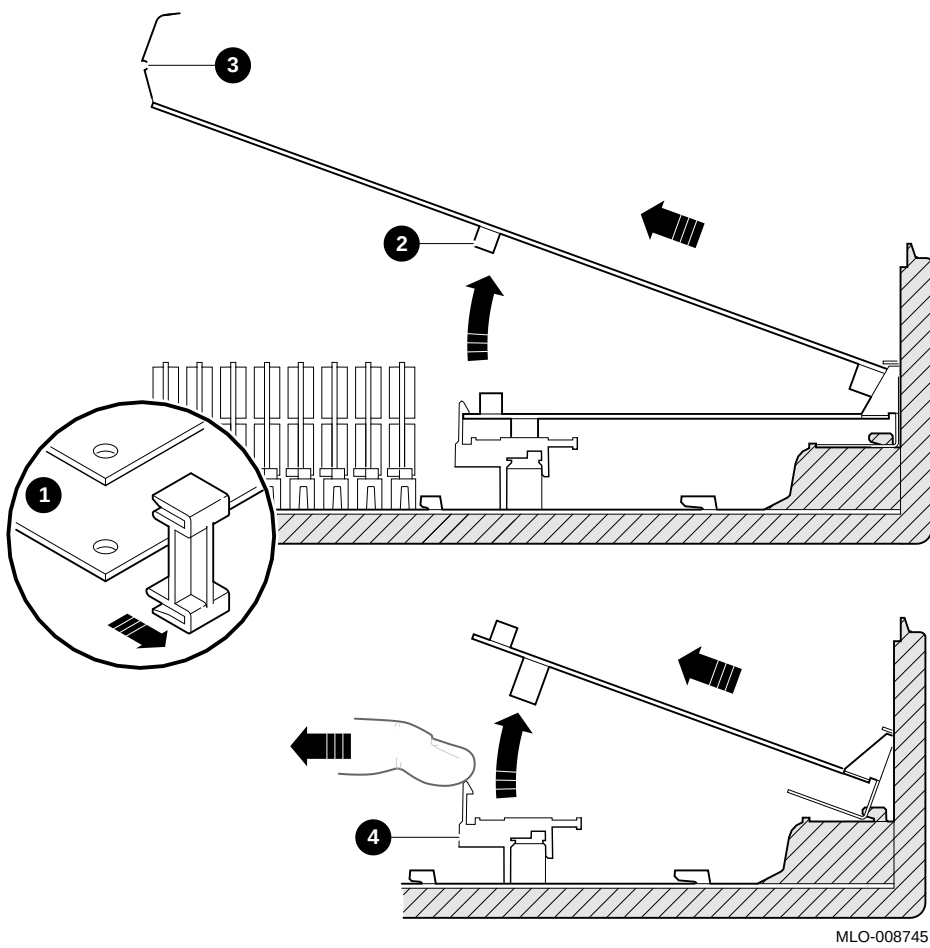


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To remove the graphics module:

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

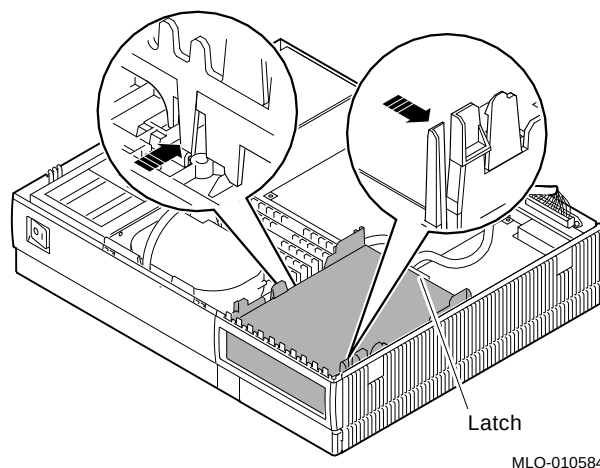


Upgrade Procedure

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.

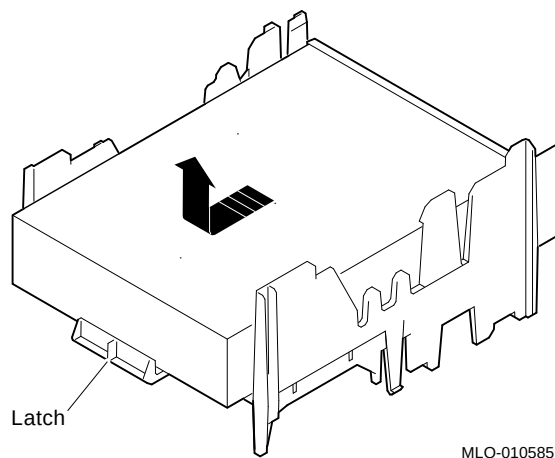


3. Release the two cantilever catches (shown) on the removable-media bracket and lift the bracket out of the system unit.

**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.

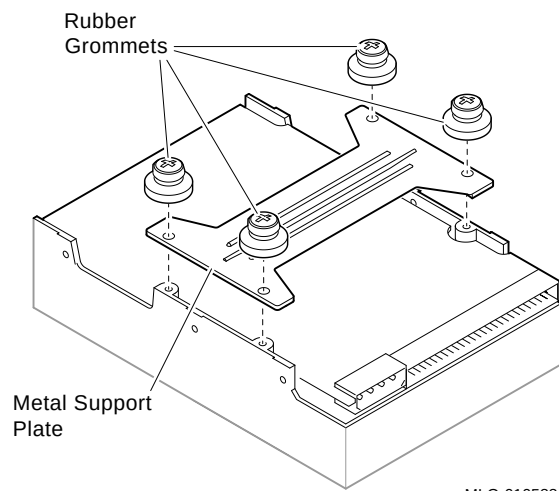
Check the SCSI ID settings you noted earlier. If one of the drives you are upgrading is set to SCSI ID 3, then change that setting.

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:

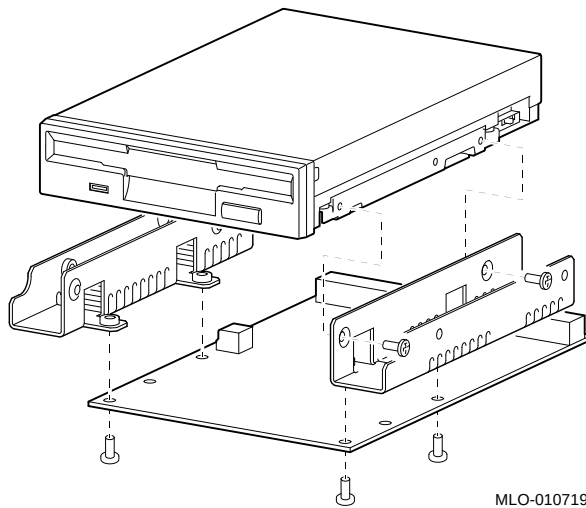
1. Place the metal support plate on the disk drive as shown below.
2. Screw the four rubber grommets (from your accessory kit) onto the plate and the drive until the plate is secure.



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 600/600S/700 Options Guide*. Follow the instructions in the *DEC 3000 Model 600/600S/700 Owner's Guide* to complete the upgrade.
2. Update the customer service contract to the DEC 3000 Model 700 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 120/125/133/150

Topics Covered in This Chapter

- Upgrading your system
- Removing drives
- Removing modules
- 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 display the SCSI ID settings of the drives in your DECstation system:

1. Enter the following 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:

Upgrade Procedure

```
>>> cnfg 3
3: KN02  DEC  Vn.n  TCF0 (8 MB)
                               (enet: 08-00-2b-30-14-df)
                               (SCSI = 7)

-----
      DEV  PID      VID  REV  SCSI ID
-----
rz2    RZ24 (C) DEC DEC 0700  DIR
rz5    Rrd42 (C) DEC DEC 0700  CD-ROM
```

This display shows an RZ24 drive set to SCSI ID 2 and an RRD42 drive set to SCSI ID 5.

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 back of the system unit.

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

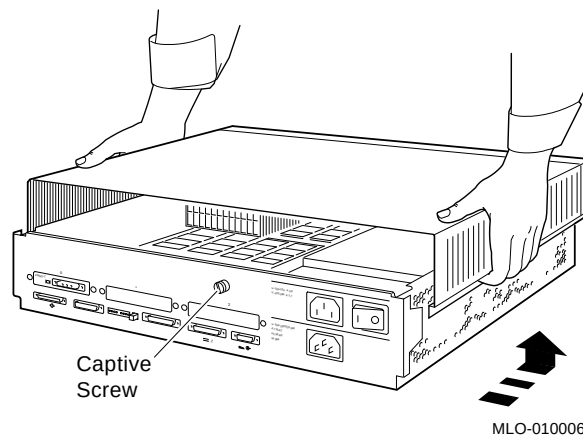
Step 3: Disconnect Cables

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 captive 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.

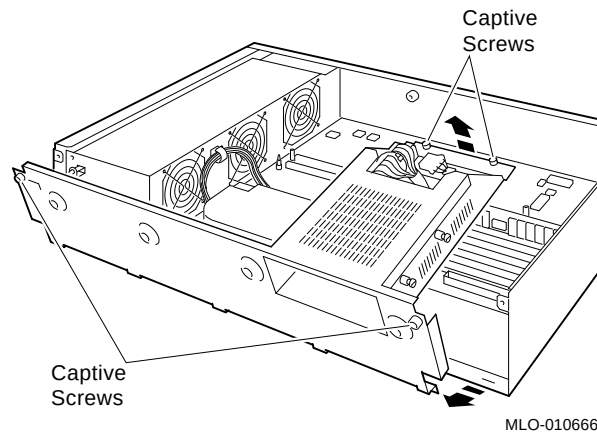
Upgrade Procedure



Upgrade Procedure

Step 5: Remove Front Drive Panel

1. Loosen the two captive screws that hold the front drive panel in place.
2. Loosen the two captive screws on the back of the drive bracket.
3. If there is a drive inside the bracket, disconnect the SCSI and power cables from the drive.



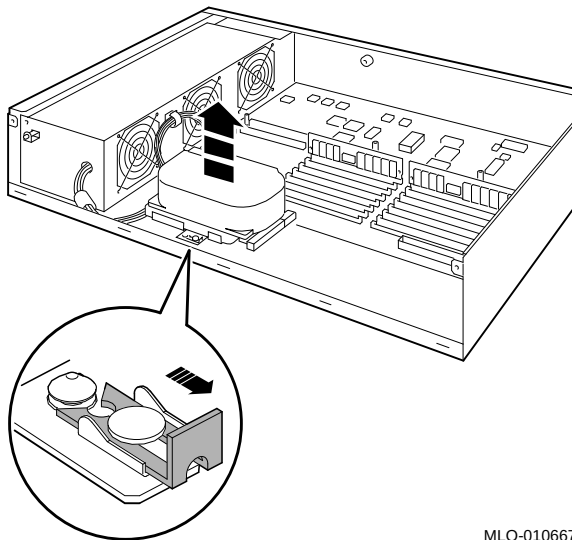
4. Pull up carefully from the back of the drive bracket. As you raise the end of the bracket, you can pull the disconnected ends of the cables through the cutout in the bracket.
5. Release the cables from the cable clamps on the inside of the front panel.
6. Set the front panel aside. Handle it carefully if it contains a drive.

**Step 6:
Remove
Removable
Media Drives**

1. Loosen the captive screws on both sides of the drive bracket.
2. Slide the drive out of the bracket and through the opening in the front panel.
3. Set the drive aside on an antistatic mat.

**Step 7:
Remove Fixed
Disk Drives**

1. Press down on the disk drive and unlock the sliding latch.
2. Lift the drive off the mounting post and out of the chassis cutouts.



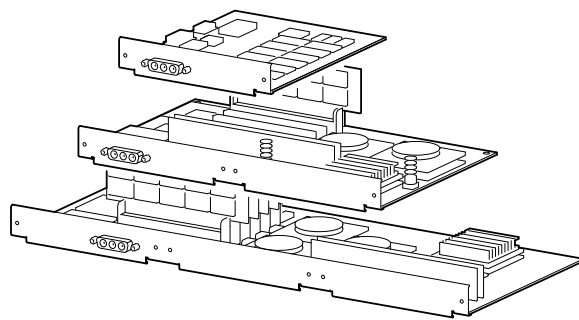
MLO-010667

3. Unplug the power cable and SCSI cable from the drive. Pull on the SCSI cable connector flap to remove the connector.
4. Remove the drive mounting bracket by removing the four screws that secure the drive to the mounting bracket.
5. Set the drive aside on an antistatic mat.
6. Put all the disconnected ends of the cables back into the system unit.

Upgrade Procedure

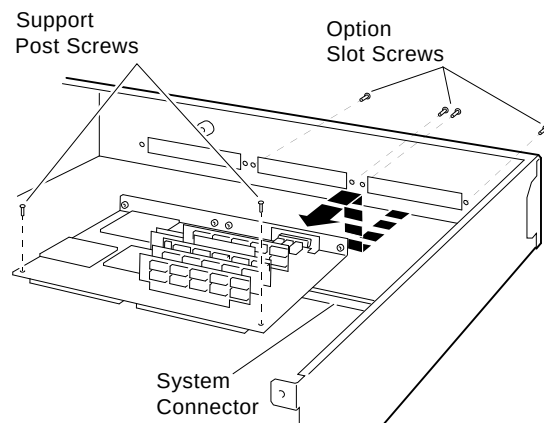
Step 8: Remove Modules

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



MLO-010663

1. Remove the option slot screws and the support post screws.
2. Release the module from the system connector and lift the module out of the option slot opening.



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Step 9: Set the SCSI IDs on the Drives

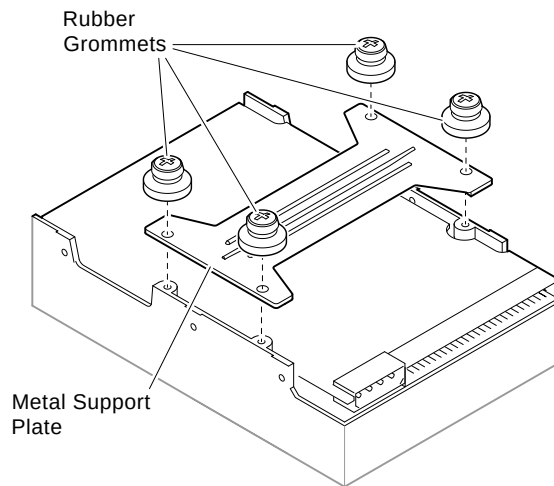
If your DEC 3000 system has a factory-installed disk drive, it is set to SCSI ID 3. Check the SCSI ID settings you noted earlier. If one of the drives you are upgrading is also set to SCSI ID 3, change that setting.

See Appendix A for the SCSI ID drive settings.

Step 10: Install New Mounting Bracket

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



Step 11: Complete the Upgrade

1. Instructions for installing options that you have removed from your current system can be found in the *DEC 3000 Model 600/600S/700 Options Guide*. Follow the instructions in the *DEC 3000 Model 600/600S/700 Owner's Guide* to complete the upgrade.
2. Update the customer service contract to the DEC 3000 Model 700 AXP system.

Upgrade Procedure

Step 12: 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 DECstation 5000 Model 200/240/260

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:      KN02   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.

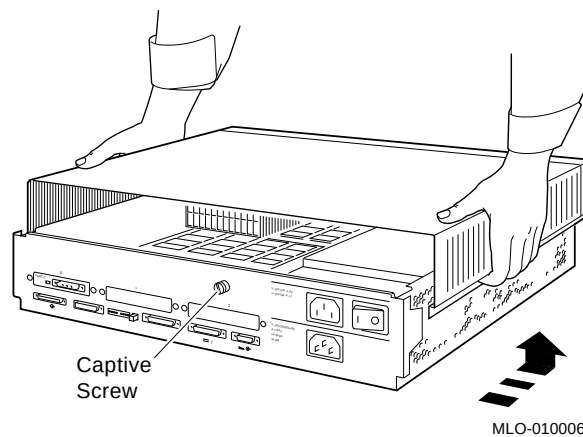
Upgrade Procedure

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

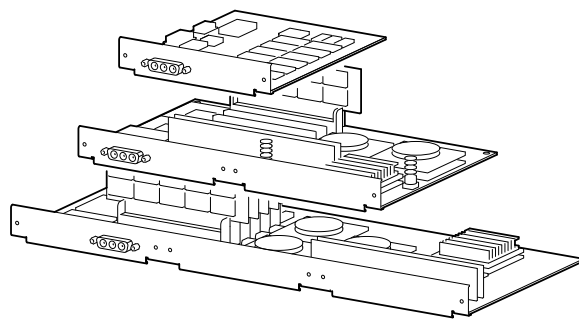
1. Loosen the captive screw on the back of the system unit.
This screw can be loosened but not removed.
2. Grasp each side of the cover with your hands, and pull the cover straight toward the front about 5.5 cm (2 inches). Pull the cover up and set it aside.



Upgrade Procedure

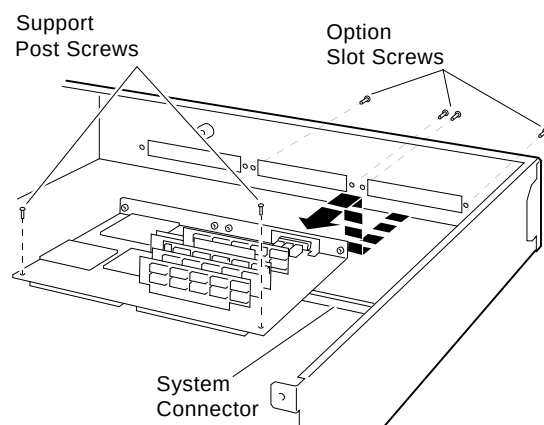
Step 5: Remove Option Modules

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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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 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 600/600S/700 Options Guide*. Follow the instructions in the *DEC 3000 Model 600/600S/700 Owner's Guide* to complete the upgrade.
2. Update the customer service contract to the DEC 3000 Model 700 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.

5

Upgrading a DEC 3000 Model 400 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 400 AXP, refer to the *DEC 3000 Model 600/600S/700 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 600/600S/700 AXP Options Guide* to install the options in your new system.
2. Follow the instructions in the *DEC 3000 Model 600/600S/700 AXP Owner's Guide* to complete the upgrade.

Step 4: Return Your System to Digital

Return your Model 400 system as follows:

1. Pack the system unit securely in the packing material that the Model 700 came in.
2. Attach the return-address label that came in the upgrade accessory kit.

Step 5: 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 700 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:

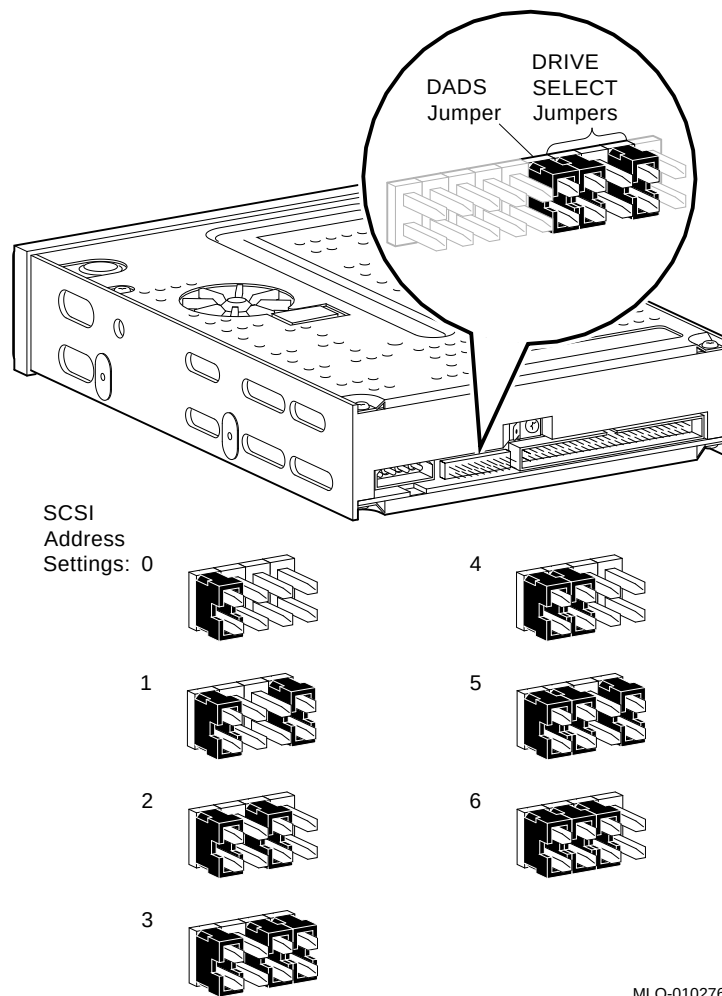
Jumpers:

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.

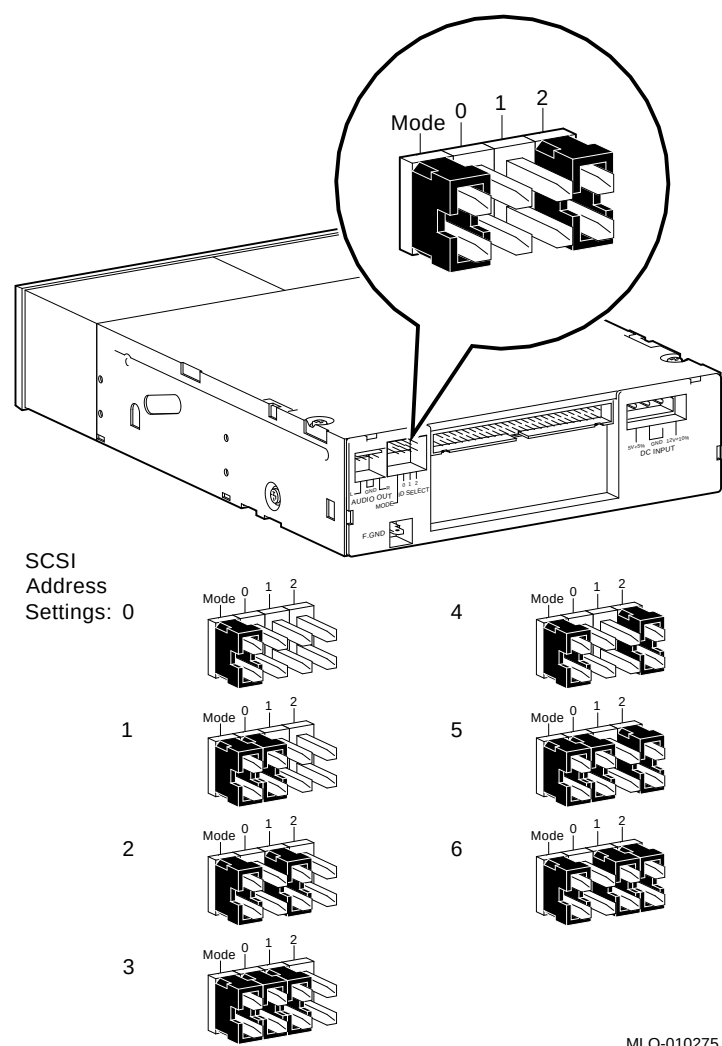
Figure A-1 TZK10/11 Tape Drive SCSI ID Settings



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.

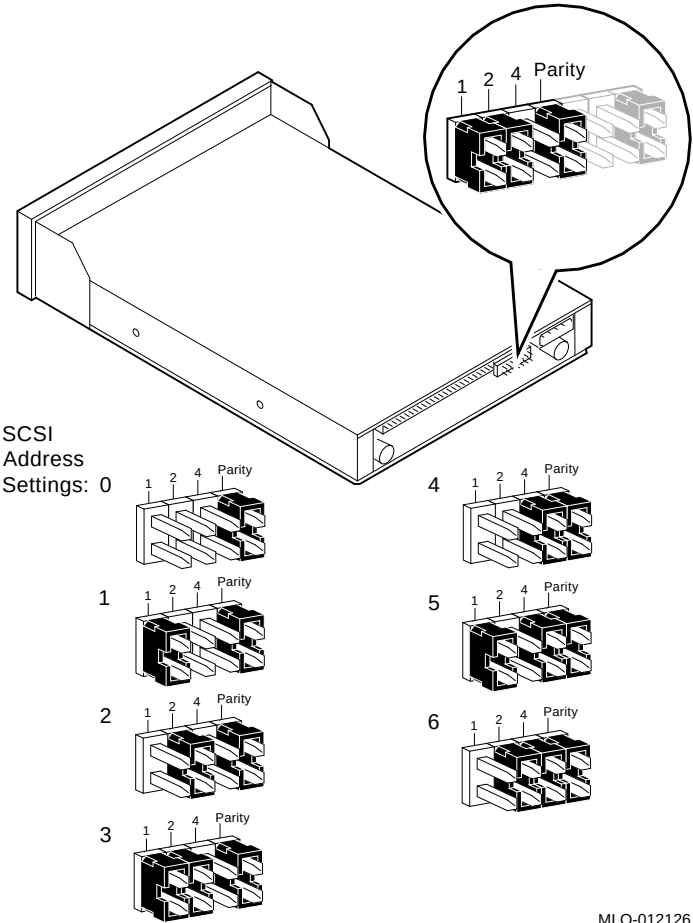
Figure A-2 RRD42 Compact Disk Drive SCSI ID Settings



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

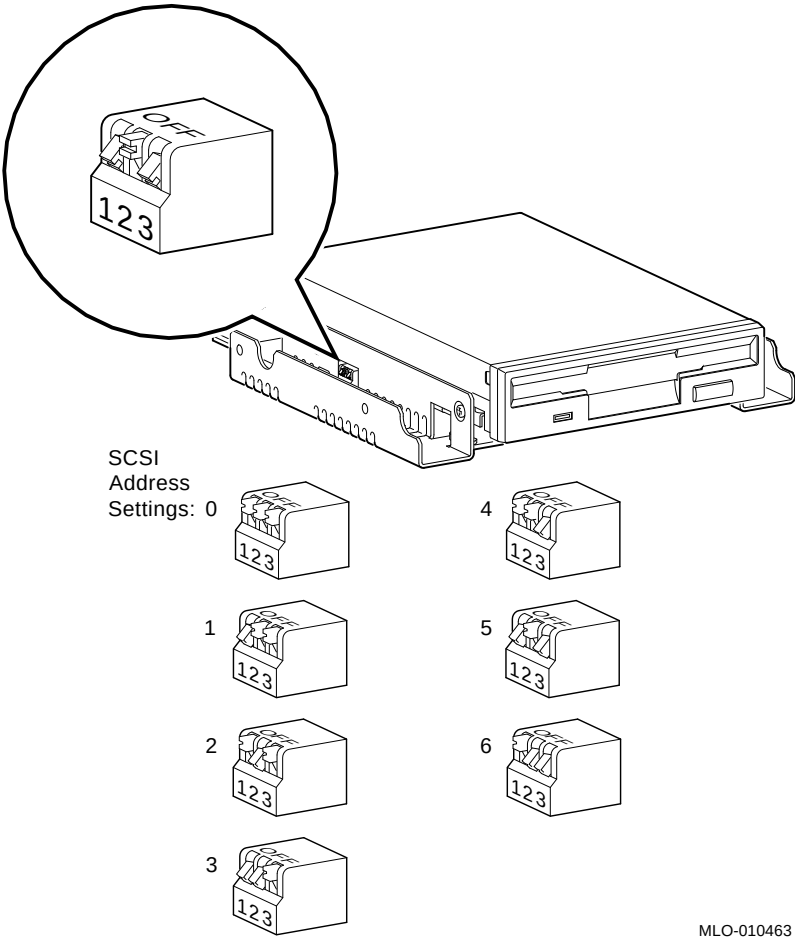


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Mode (Parity) Jumper

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

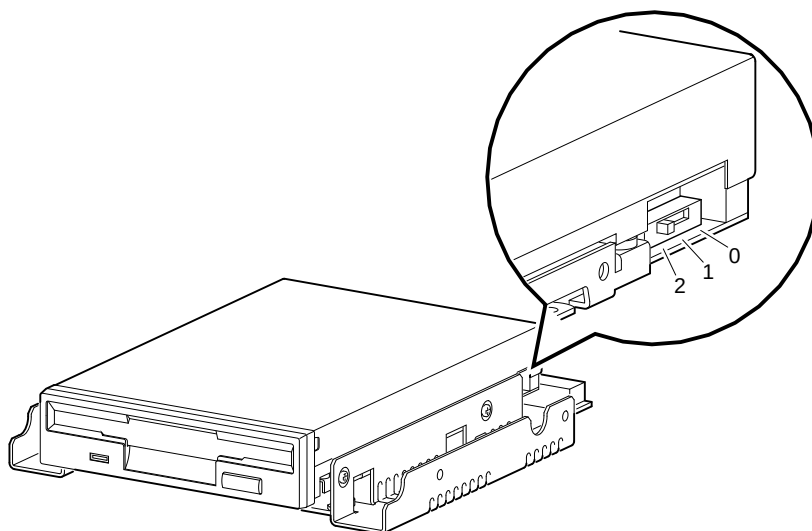


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Setting the Unit Select Switch

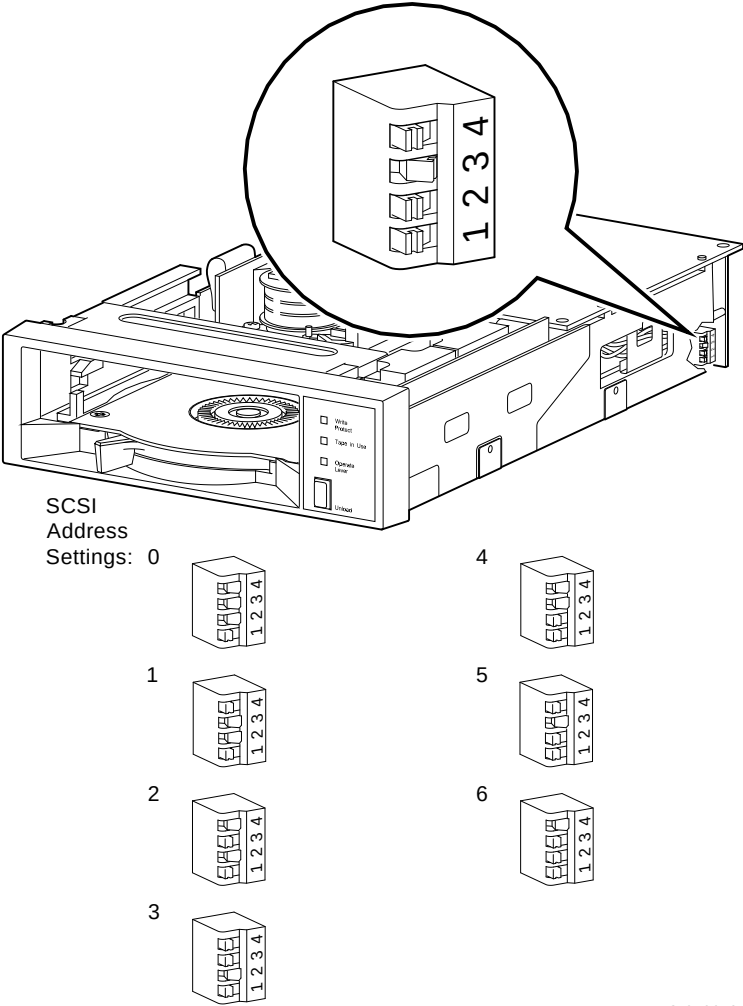
Make sure that the unit select switch is set to 2, as shown in Figure A-5.

Figure A-5 RX26 Unit Select Switch



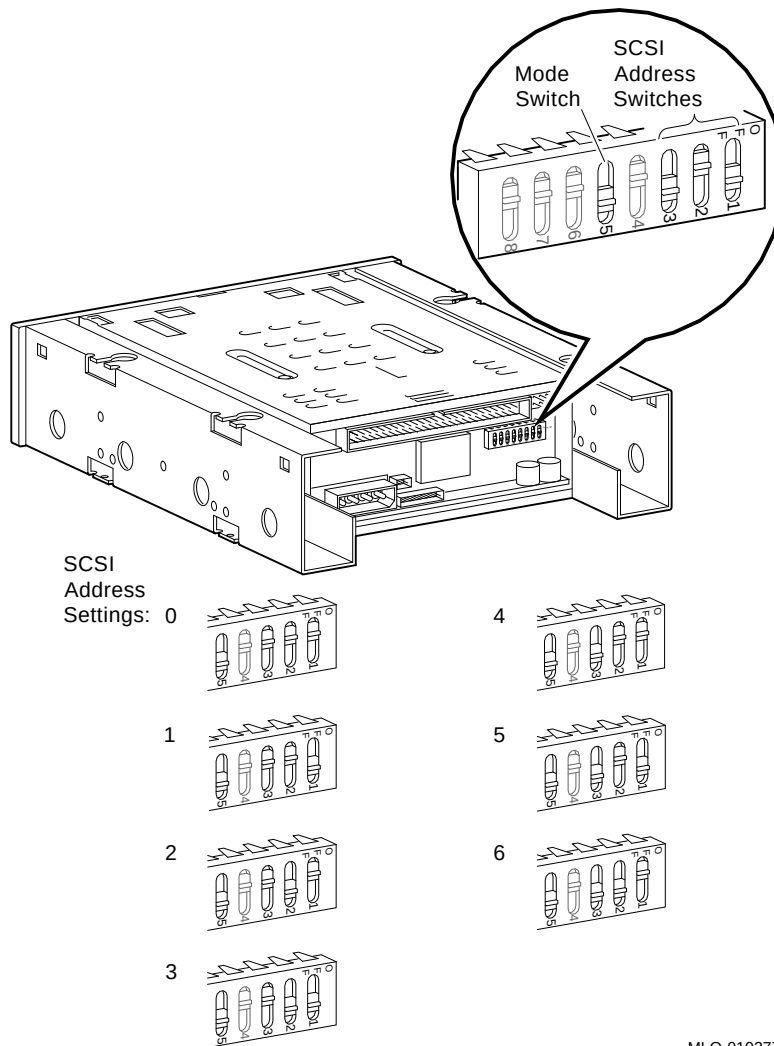
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Figure A-6 TZ30 SCSI Switches



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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

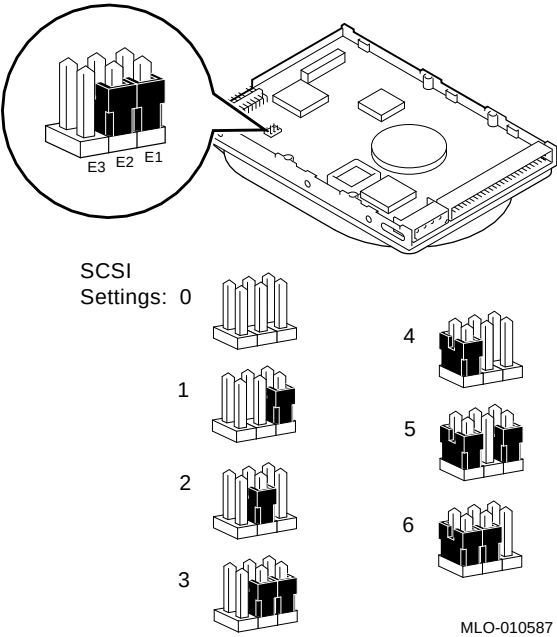
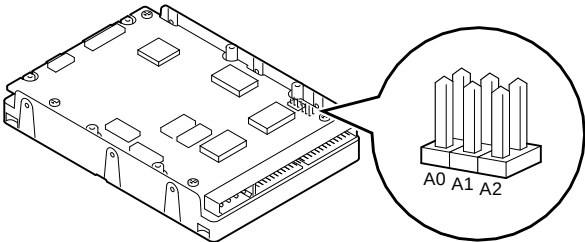
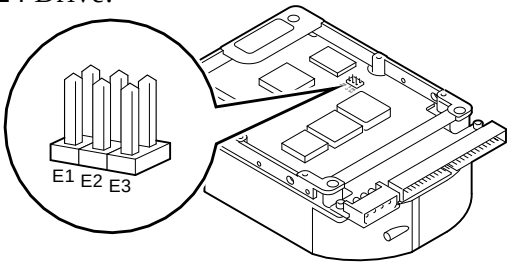


Figure A-9 RZ24L/24 Fixed Disk Drive SCSI Settings

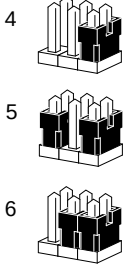
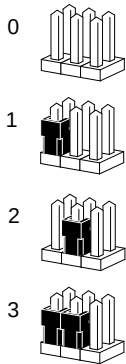
RZ24L Drive:



RZ24 Drive:

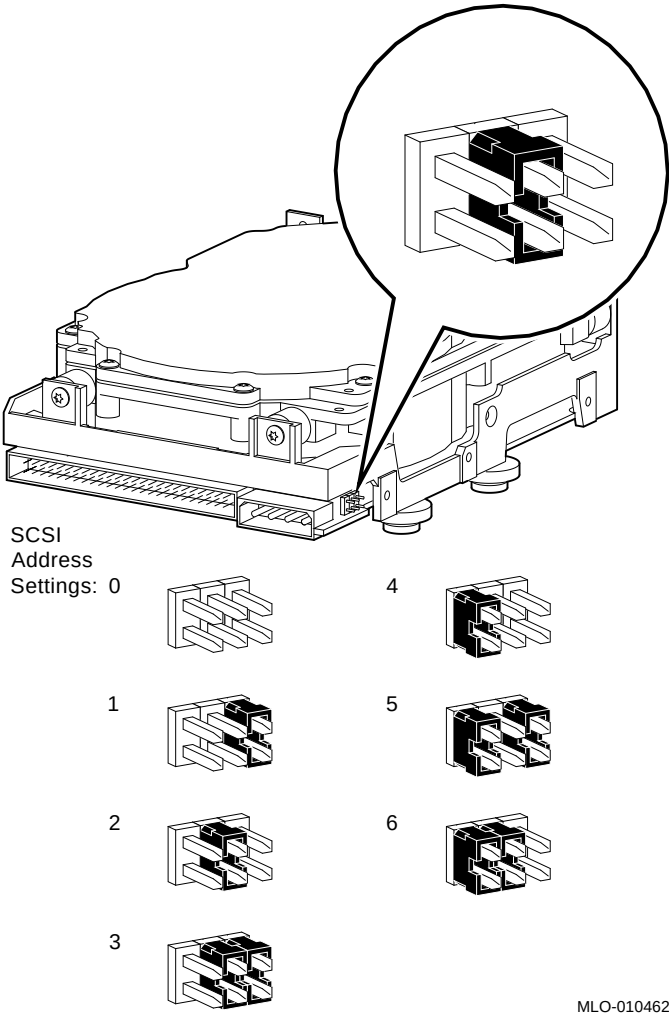


SCSI
Settings: 0



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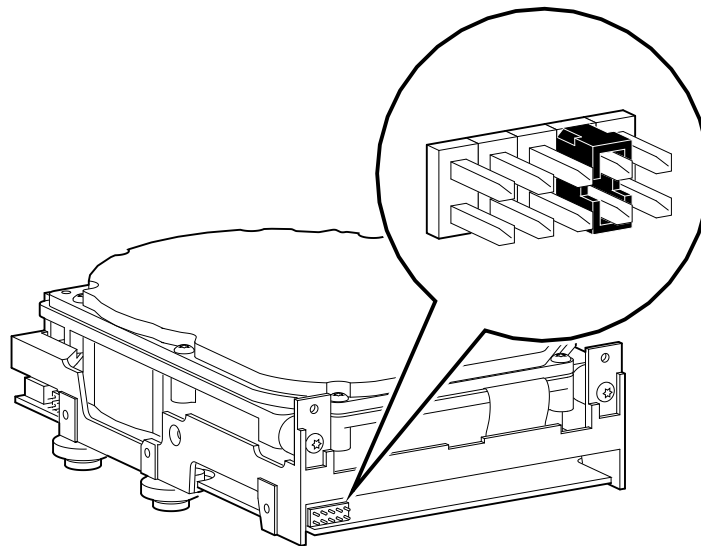
Figure A-10 RZ25 Fixed Disk Drive SCSI Settings



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 700 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



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Figure A-12 RZ25L Fixed Disk Drive SCSI Settings

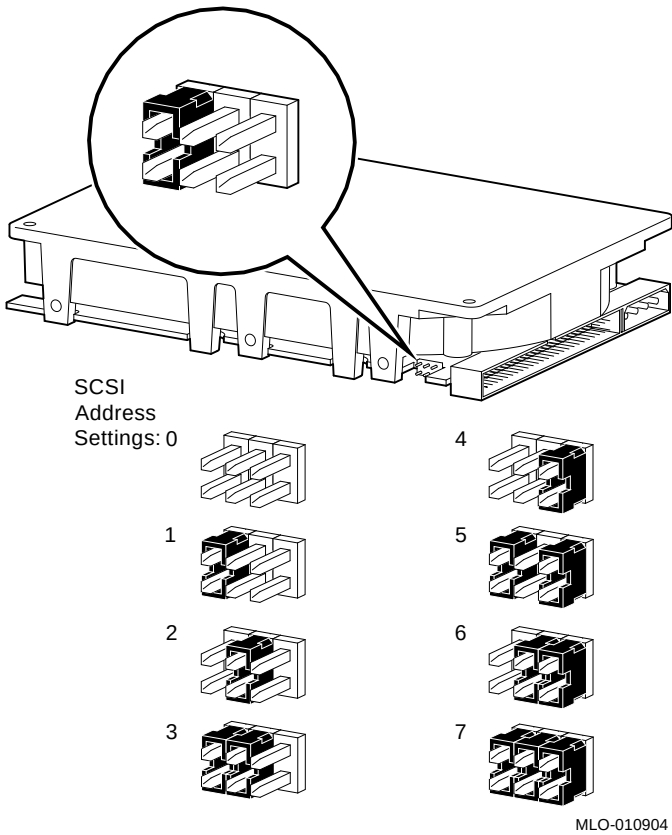


Figure A-13 RZ26 Fixed Disk Drive SCSI Settings

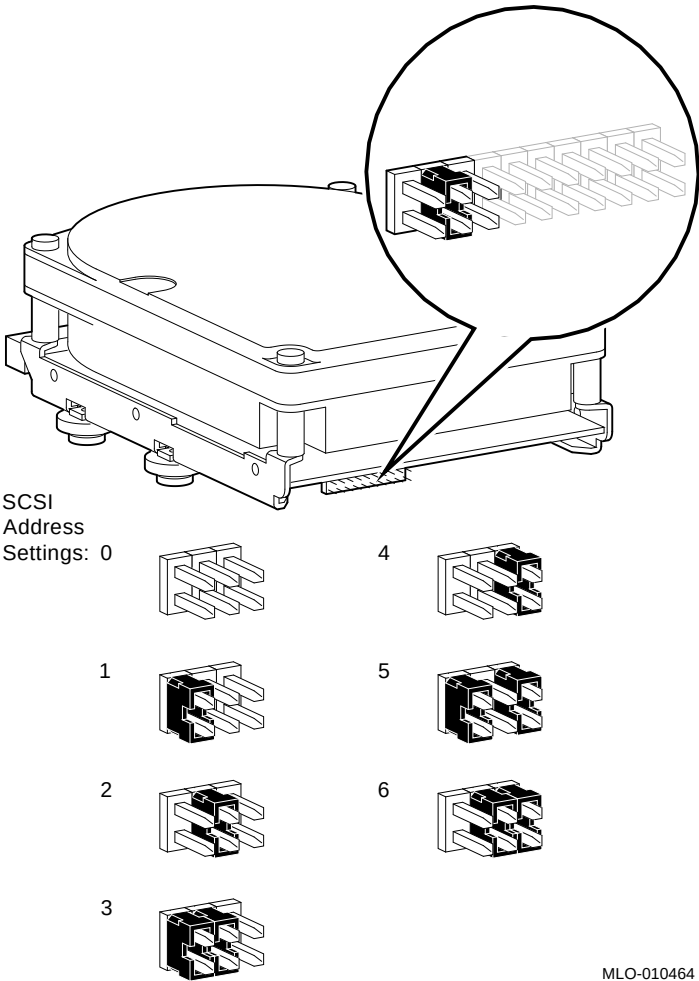


Figure A-14 RZ26B Fixed Disk Drive SCSI Settings

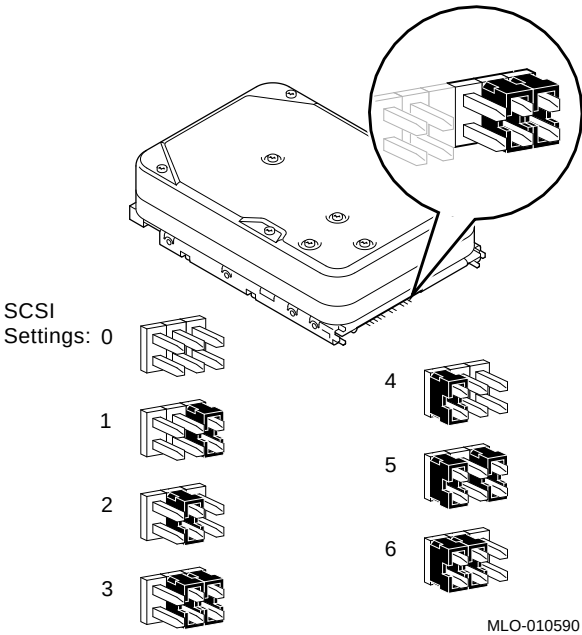
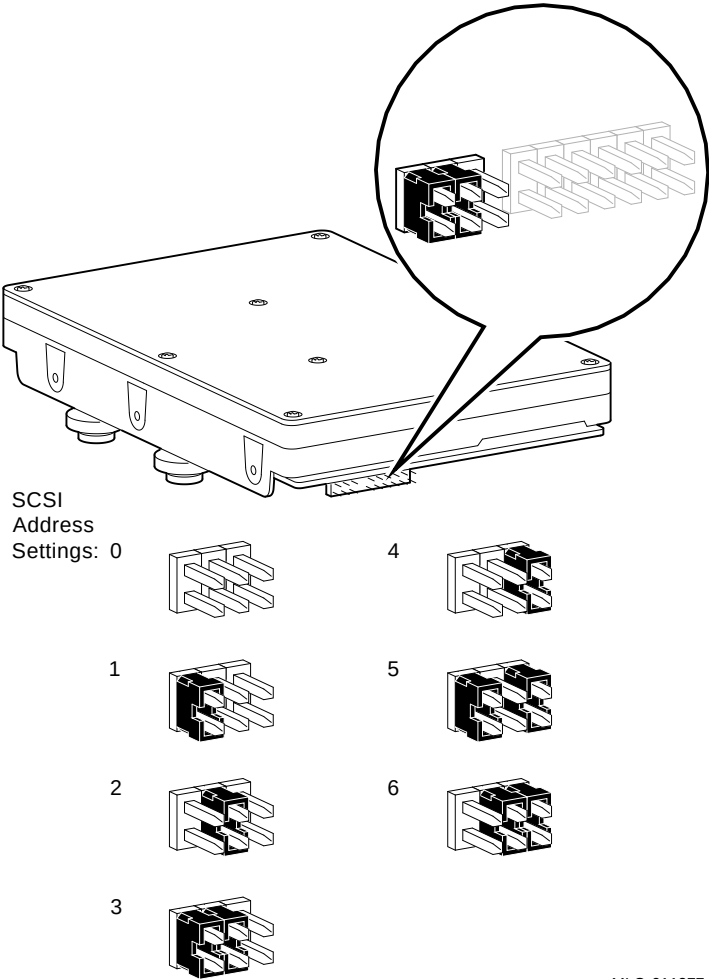
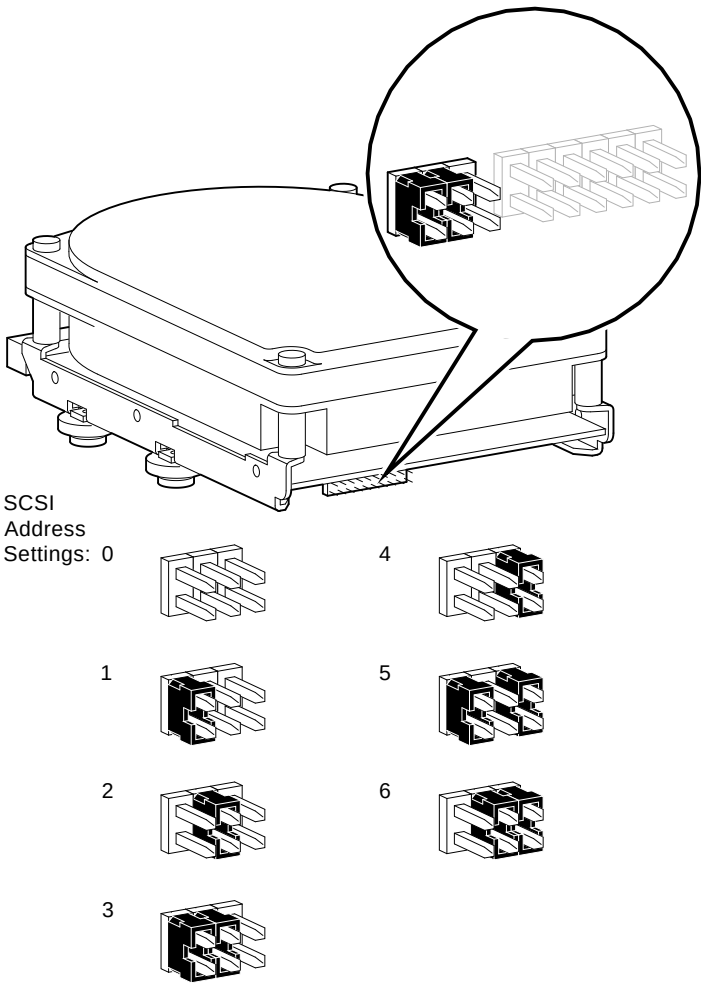


Figure A-15 RZ26L Fixed Disk Drive SCSI Settings



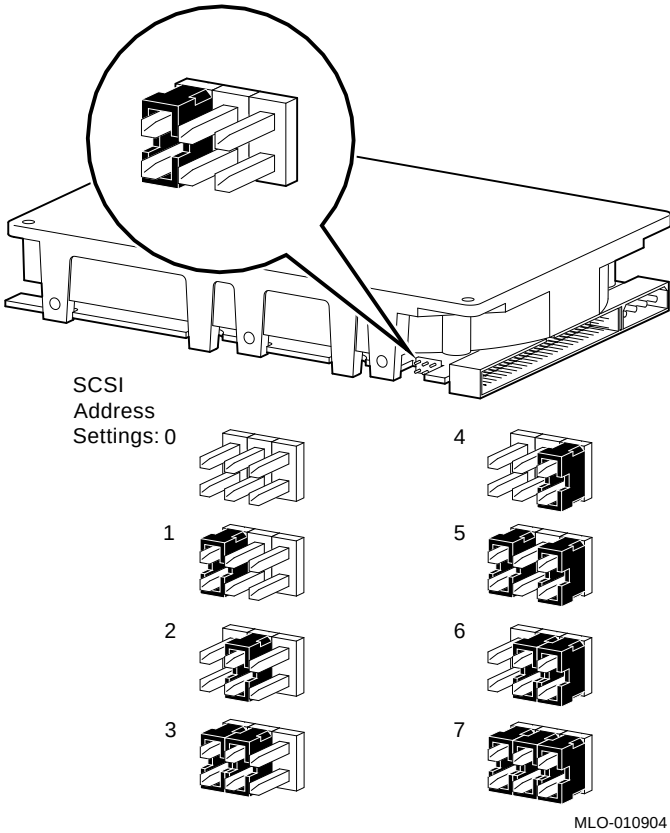
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Figure A-16 RZ28 Fixed Disk Drive SCSI Settings



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Figure A-17 RZ28B Fixed Disk Drive SCSI Settings



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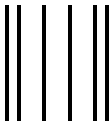
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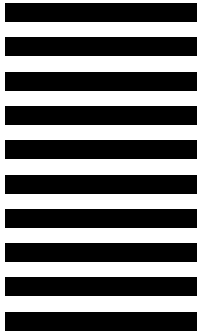
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