DEC 3000 Model 600/600S AXP
Upgrade Information

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S2514

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Overview

This chapter contains the following topics:

- 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 600/600S. Step-by-step instructions are provided for removing the options.
Overview

Figure 1–1 Upgrade Kit Contents

System Kit:
- System Unit
- Universal Strain Relief Strap
- SCSI Terminator
- Documentation
- Antistatic Wrist Strap
- Modem Loopback Connector
- Printer Port Terminator
- Network Label
- Ethernet Loopback Connector
- Mousepad
- Monitor Video Cable
- Keyboard/Mouse Extension Cable
- Monitor Power Cord
- System Power Cord
- Screwdriver

Accessory Kit:
- Upgrade Guide
- Rubber Grommets
- TX30 RFI Shield
- RX26 Bezel
- RX26 Brackets
- Metal Support Plate
- Screws
- Return Address Label

MLO-011287
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 your existing system to a DEC 3000 system, you must attach a mounting bracket provided in the accessory kit to the drive before installing it into your new system.

What to Read Next

Using This Manual

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

<table>
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<th>If you have this workstation...</th>
<th>Go to...</th>
</tr>
</thead>
<tbody>
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<td>Chapter 4</td>
</tr>
<tr>
<td>DECstation 5000-120/125/133/150</td>
<td>Chapter 5</td>
</tr>
<tr>
<td>DECstation 5000-200/240/260</td>
<td>Chapter 6</td>
</tr>
<tr>
<td>Other systems</td>
<td>Chapter 10</td>
</tr>
</tbody>
</table>
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<thead>
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<th>Go to...</th>
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</thead>
<tbody>
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<td>MicroVAX 3100-30</td>
<td>Chapter 2</td>
</tr>
<tr>
<td>MicroVAX 3100-40/80/90, VAX 4000-100/100A</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>DECsystem 5000-120/125/133/150</td>
<td>Chapter 5</td>
</tr>
<tr>
<td>DECsystem 5000-200/240/260</td>
<td>Chapter 6</td>
</tr>
<tr>
<td>DECsystem 3100</td>
<td>Chapter 7</td>
</tr>
<tr>
<td>DECsystem 5100</td>
<td>Chapter 8</td>
</tr>
<tr>
<td>DECsystem 5500</td>
<td>Chapter 9</td>
</tr>
<tr>
<td>Other systems</td>
<td>Chapter 10</td>
</tr>
</tbody>
</table>
Upgrading a MicroVAX 3100 Model 30

Topics Covered in This Chapter

• Options you can upgrade
• Upgrading your system
• Removing drives
• Completing the upgrade

Options You Can Upgrade

Internal/External Options

The options you can install in your DEC 3000 Model 600S are listed in the following tables:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>RZ23L</td>
<td>121 MB</td>
<td></td>
</tr>
<tr>
<td>RZ24</td>
<td>209 MB</td>
<td></td>
</tr>
<tr>
<td>RZ24L</td>
<td>245 MB</td>
<td></td>
</tr>
<tr>
<td>RZ25</td>
<td>426 MB</td>
<td></td>
</tr>
<tr>
<td>RZ25L</td>
<td>500 MB</td>
<td></td>
</tr>
<tr>
<td>RZ26</td>
<td>1.05 GB</td>
<td></td>
</tr>
</tbody>
</table>
## Options You Can Upgrade

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Internal or External Removable Drives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RRD42</td>
<td>600 MB CD-ROM</td>
<td></td>
</tr>
<tr>
<td>TZK10</td>
<td>525 MB QIC tape</td>
<td></td>
</tr>
<tr>
<td>TZ30</td>
<td>95 MB tape</td>
<td></td>
</tr>
<tr>
<td>TLZ06</td>
<td>4.0 GB DAT tape</td>
<td></td>
</tr>
</tbody>
</table>

### External Options

The options that are supported externally on the DEC 3000 Model 600S are listed in the following tables:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>External Disks</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RZ55</td>
<td>332 MB</td>
<td></td>
</tr>
<tr>
<td>RZ56</td>
<td>665 MB</td>
<td></td>
</tr>
<tr>
<td>RZ57</td>
<td>1.0 GB</td>
<td>Requires Firmware update 6000</td>
</tr>
<tr>
<td>RZ58</td>
<td>1.3 GB</td>
<td></td>
</tr>
<tr>
<td>RZ74</td>
<td>3.6 GB</td>
<td></td>
</tr>
<tr>
<td>RZ26L</td>
<td>1.0 GB</td>
<td></td>
</tr>
</tbody>
</table>

| **External Removable Drives** |                   |                          |
| TLZ04 | 1.2 GB DAT tape |                          |
| TZ85  | 2.6 GB cartridge tape |                      |
| RX26  | 2.8 MB floppy   |                          |
| TZ86  | 6.0 GB tape     |                          |
| TSZ07 | SCSI magnetic tape |                        |

| **Expansion Boxes** |                   |                          |
| SZ12   | Desktop         |                          |
| BA350  | Deskside        |                          |
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 determine the SCSI ID settings on your drives:

1. Shut down your software following the instructions in your software documentation.
2. Enter the `show config` command.

A screen similar to the following appears:

```shell
>>> show config
DEVNBR  DEVNAM  INFO
--------------------------
  1  NVR       OK
  3  DZ        OK
  4  CACHE     OK
  5  MEM       OK
  6  FPU       OK
  7  IT        OK
  8  SYS       OK
  9  NI        OK
 10  SCSI     OK

  16MB = SY=8MB, S0/1=8MB, S2/3=0MB, S4/5= 0MB
  3-RZ24  6-INITR
```

This information shows an RZ24 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 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 two captive screws on the back of the system unit. These screws can be loosened but not removed.
2. Slide the cover forward and lift it up from the system unit. Set the cover aside.

**Step 5: Remove Fixed Disk Drives**

1. Press and hold the spring clip that locks the disk drive in position.
2. Refer to the figure, and push the disk drive towards the spring clip until the rubber grommets on the bottom of the disk drive release from the cutouts in the drive mounting shelf.
3. Lift the disk drive up from the drive mounting shelf and release the spring clip.
Step 6: Remove Removable-Media Drive

Follow these steps to remove a removable-media drive from the drive shelf:

1. Loosen the captive screw that secures the drive mounting bracket to the drive shelf.

2. Lift the left side of the drive until the tabs on the right side clear the cutouts in the drive shelf.

3. Disconnect the SCSI and power cables from the back of the drive.

4. Remove the drive mounting bracket by removing the screws that secure the mounting bracket to the drive.

5. Set the drive aside on an antistatic mat.

Step 7: 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.

Settings not shown here are described in the DEC 3000 Model 600/600S AXP Options Guide or in the option documentation.
Upgrade Procedure

The following illustrate the SCSI ID settings for an RZ23L and an RZ24 drive.

RZ23L Drive:
Step 8: 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 9: 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 Options Guide. Follow the instructions in the DEC 3000 Model 600/600S Owner’s Guide to complete the upgrade.

2. Update the customer service contract to the DEC 3000 Model 600S AXP system.

Step 10: Return Your MicroVAX System to Digital

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

1. Pack the MicroVAX system and devices securely in packing material.

2. Attach the return address label that was in your upgrade kit.
Upgrading a MicroVAX 3100 Model 40/80/90, VAX 4000 Model 100/100A

Topics Covered in This Chapter
- Options you can upgrade
- Upgrading your system
- Removing drives
- Completing the upgrade

Options You Can Upgrade

<table>
<thead>
<tr>
<th>Internal/External Options</th>
<th>Description</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal or External Disks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RZ23L 121 MB</td>
<td></td>
<td>MicroVAX 3100 only</td>
</tr>
<tr>
<td>RZ24 209 MB</td>
<td></td>
<td>MicroVAX 3100 only</td>
</tr>
<tr>
<td>RZ24L 245 MB</td>
<td></td>
<td>MicroVAX 3100 only</td>
</tr>
<tr>
<td>RZ25 426 MB</td>
<td></td>
<td>MicroVAX 3100 only</td>
</tr>
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</table>
## Options You Can Upgrade

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<td><strong>Internal or External Removable Drives</strong></td>
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<td>RRD42</td>
<td>600 MB CD-ROM</td>
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<tr>
<td>TZK10</td>
<td>525 MB QIC tape</td>
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<tr>
<td>TZ30</td>
<td>95 MB tape</td>
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</tr>
<tr>
<td>TLZ06</td>
<td>4.0 GB DAT tape</td>
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</table>

### External Options

The external options that you can move to the DEC 3000 Model 600S are listed in the following tables:

<table>
<thead>
<tr>
<th>Option</th>
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<td>RZ55</td>
<td>332 MB</td>
<td>MicroVAX 3100 only</td>
</tr>
<tr>
<td>RZ56</td>
<td>665 MB</td>
<td>MicroVAX 3100 only</td>
</tr>
<tr>
<td>RZ57</td>
<td>1.0 GB</td>
<td>MicroVAX 3100 only Requires Firmware update 6000</td>
</tr>
<tr>
<td>RZ58</td>
<td>1.3 GB</td>
<td>MicroVAX 3100 only</td>
</tr>
<tr>
<td>RZ74</td>
<td>3.6 GB</td>
<td>MicroVAX 3100 only</td>
</tr>
</tbody>
</table>

| **External Removable Drives** | | |
| TLZ04  | 1.2 GB DAT tape | MicroVAX 3100 only |
| TZ85   | 2.6 GB cartridge tape | MicroVAX 3100 only |
| RX26   | 2.8 MB floppy | |
| TZ86   | 6.0 GB tape | MicroVAX 3100 only |
| T SZ07 | SCSI magnetic tape | |
| RWZ01  | Read/write optical drive | VAX 4000 only |
| TSZ05  | 1600 BPI magnetic tape drive | VAX 4000 only |
Options You Can Upgrade

Expansion Boxes

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>SZ12</td>
<td>Desktop</td>
<td></td>
</tr>
<tr>
<td>BA350</td>
<td>Deskside MicroVAX 3100 only</td>
<td></td>
</tr>
</tbody>
</table>

Upgrade Procedure

**Step 1: If Your System Has Factory-Installed Drives**

If your DEC 3000 Model 600S 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 system:

1. Shut down your software following the instructions in your software documentation.
2. Enter `SHOW CONFIG` at the console prompt (>>>). A screen similar to the following appears:

>>> SHOW CONFIG

```
DEVNBR  DEVNAM  INFO
--------------------------------------
1  NVR     OK
3  DZ      OK
4  CACHE   OK
5  MEM     OK
                                      16MB = SY=8MB, S0/1=8MB, SE/3=0MB, S4/5=0MB
6  FPU     OK
7  IT      OK
8  SYS     OK
9  NI      OK
10  SCSI    OK

3-RZ24  6-INITR
```

This display shows an RZ24 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 rear 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 two captive screws on the back of the system unit. These screws can be loosened but not removed.
2. Slide the cover forward and lift it up from the system unit. Set the cover aside.

Step 5: Remove Fixed Disk Drives

1. Press and hold the spring clip that locks the disk drive in position.
2. Refer to the figure. Push the disk drive towards the spring clip until the rubber grommets on the bottom of the disk drive release from the cutouts in the drive mounting shelf.
Upgrade Procedure

3. Lift the disk drive up from the drive mounting shelf and release the spring clip.

4. Disconnect the SCSI and power cables from the back of the drive.

5. Remove the drive mounting bracket by removing the screws that secure the mounting bracket to the drive.

6. Set the drive aside on an antistatic mat.

Step 6: Remove the Upper Drive Shelf

1. Disconnect the power cable from the power supply. Remove the power cable from the enclosure.

2. Refer to the figure. Loosen the three captive screws that hold the drive shelf in place.
Upgrade Procedure

3. Lift the left side of the shelf and pull the shelf to the left until the tabs on the right clear the cutouts in the lower drive shelf.
4. Set the drive shelf aside.

**Step 7: Remove Removable-Media Drive**

Follow these steps to remove a removable-media drive from the lower drive shelf:

1. Loosen the captive screw that secures the drive mounting bracket to the drive shelf.

2. Lift the left side of the drive until the tabs on the right side clear the cutouts in the drive shelf.
3. Disconnect the SCSI and power cables from the back of the drive.
4. Remove the drive mounting bracket by removing the screws that secure the drive to the mounting bracket.
5. Set the drive aside on an antistatic mat.

**Step 8: 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.

You can find SCSI settings for drives not shown here in the DEC 3000 Model 600/600S Options Guide or the option documentation.
The following illustrate the SCSI ID settings for an RZ23L and an RZ24 drive.

RZ23L Drive:
Upgrade Procedure

RZ24 Drive:

Step 9: 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 10: 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 Options Guide. Follow the instructions in the DEC 3000 Model 600/600S Owner’s Guide to complete the upgrade.

2. Update the customer service contract to the DEC 3000 Model 600S AXP system.

Step 11: Return Your MicroVAX to Digital

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

1. Pack the MicroVAX system and devices securely in packing material.

2. Attach the return-address label that was in your upgrade kit.
Upgrading a VAXstation 4000 Model 60/90

Topics Covered in This Chapter

- Options you can upgrade
- Upgrading your system
- Removing drives
- Completing the upgrade

Options You Can Upgrade

<table>
<thead>
<tr>
<th>Internal/External Options</th>
<th>Fixed Disk Drives</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RZ23L</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RZ24L</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RZ24</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RZ25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RZ26</td>
<td></td>
</tr>
<tr>
<td></td>
<td>RZ26B</td>
<td>OpenVMS support only</td>
</tr>
</tbody>
</table>
Options You Can Upgrade

<table>
<thead>
<tr>
<th>Removable-Media Drives</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRD42</td>
<td>Including tabletop device</td>
</tr>
<tr>
<td>TLZ06</td>
<td>Including tabletop device</td>
</tr>
<tr>
<td>TZK10</td>
<td></td>
</tr>
<tr>
<td>RX26</td>
<td></td>
</tr>
<tr>
<td>TZ30</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>
External Options

Options that are supported externally on the DEC 3000 Model 600 are listed in the following tables:

<table>
<thead>
<tr>
<th>Expansion Boxes</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA350</td>
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<tr>
<td>BA353</td>
<td></td>
</tr>
<tr>
<td>SZ03</td>
<td></td>
</tr>
<tr>
<td>SZ12</td>
<td></td>
</tr>
<tr>
<td>SZ16</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Disk/Tape Drives</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>TZ85</td>
<td></td>
</tr>
<tr>
<td>RZ55/RZ56</td>
<td></td>
</tr>
<tr>
<td>RZ58</td>
<td></td>
</tr>
<tr>
<td>TSZ07</td>
<td></td>
</tr>
<tr>
<td>TLZ04</td>
<td></td>
</tr>
<tr>
<td>RWZ01</td>
<td>OpenVMS support only</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Monitors</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>VR319–C%</td>
<td></td>
</tr>
<tr>
<td>VR319–D%</td>
<td></td>
</tr>
<tr>
<td>VR320–C%</td>
<td></td>
</tr>
<tr>
<td>VR320–D%</td>
<td></td>
</tr>
<tr>
<td>VRC16–H%</td>
<td></td>
</tr>
<tr>
<td>VRM17–H%</td>
<td></td>
</tr>
<tr>
<td>VRT16–H%</td>
<td></td>
</tr>
<tr>
<td>VRT19–H%</td>
<td></td>
</tr>
</tbody>
</table>
Options You Can Upgrade

<table>
<thead>
<tr>
<th>Input Devices</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>VSXXX–AB</td>
<td></td>
</tr>
<tr>
<td>VSXXX–FA</td>
<td></td>
</tr>
<tr>
<td>VSXXX–AA</td>
<td></td>
</tr>
<tr>
<td>VSXXX–JA</td>
<td></td>
</tr>
<tr>
<td>VSXXX–GA</td>
<td></td>
</tr>
<tr>
<td>LK401/201</td>
<td></td>
</tr>
<tr>
<td>VSX10–AA/A3</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>VSX20–AA/A3</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>VSX30–AA/A3</td>
<td>DEC Open3D required for software support</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:

```plaintext
>>> 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.
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.
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.
Upgrade Procedure

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.

Figure 4–1 SPXgt 24-Plane Graphics Module

To remove the graphics module:

1. Remove the plastic E-clip 1 that holds the graphics module to the frame buffer. (See Figure 4–2.)

2. Lift the frame buffer from the center connector 2, then free it from the ridge 3 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 4–1). The gasket will remain in place, held by the video connector bracket on the graphics module.
Upgrade Procedure

Figure 4–2 Removing the SPXgt 24-Plane Graphics Module
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.
Upgrade Procedure

**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.
Upgrading a VAXstation 4000 Model 60/90

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.

Settings not shown here are described in the DEC 3000 Model 600/600S AXP Options Guide or in the options documentation.

The following illustrate the SCSI ID settings for an RZ23L, an RZ24, and an RZ26B drive.

RZ23L Drive:
Upgrade Procedure

RZ24 Drive:

SCSI Settings: 0
1
2
3
4
5
6

MLO-010586
Upgrade Procedure

RZ26B Drive:

SCSI Settings:

0
1
2
3
4
5
6

MLO-010590
Upgrade Procedure

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 Options Guide. Follow the instructions in the DEC 3000 Model 600/600S Owner's Guide to complete the upgrade.

2. Update the customer service contract to the DEC 3000 Model 600 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/DECsystem 5000 Model 120/125/133/150

Topics Covered in This Chapter

• Options you can upgrade
• Upgrading your system
• Removing drives
• Removing modules
• Completing the upgrade

Options You Can Upgrade

Internal/External Options

Options that are supported internally or externally on the DEC 3000 Model 600/600S 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>RZ24L</td>
<td></td>
</tr>
<tr>
<td>RZ24</td>
<td></td>
</tr>
<tr>
<td>RZ25</td>
<td></td>
</tr>
<tr>
<td>RZ26</td>
<td></td>
</tr>
</tbody>
</table>
## Options You Can Upgrade

### Removable-Media Drives

<table>
<thead>
<tr>
<th>Drives</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRD42</td>
<td>Including tabletop devices</td>
</tr>
<tr>
<td>TLZ06</td>
<td>Including tabletop devices</td>
</tr>
<tr>
<td>TZ30</td>
<td></td>
</tr>
<tr>
<td>TZK10</td>
<td></td>
</tr>
</tbody>
</table>

### Graphics Modules

<table>
<thead>
<tr>
<th>Module</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV10U–AA/DA</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>PMAGB–BA/BB</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>PMAGB–BC/BD</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>PMAGB–BE/BF</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>PMAGB–JA/JB</td>
<td>DEC Open3D required for software support</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>
</tbody>
</table>
### External Options

Options that are supported externally on the DEC 3000 Model 600/600S are listed in the following tables:

#### Expansion Boxes

<table>
<thead>
<tr>
<th>Expansion Box</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>

#### Disk/Tape Drives

<table>
<thead>
<tr>
<th>Disk/Tape Drive</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>RZ55</td>
<td></td>
</tr>
<tr>
<td>RZ56</td>
<td></td>
</tr>
<tr>
<td>RZ58</td>
<td></td>
</tr>
<tr>
<td>RX23</td>
<td>OSF/1 AXP support only</td>
</tr>
<tr>
<td>TKZ08</td>
<td></td>
</tr>
<tr>
<td>TKZ09</td>
<td></td>
</tr>
<tr>
<td>TLZ04</td>
<td></td>
</tr>
<tr>
<td>TZ85</td>
<td></td>
</tr>
<tr>
<td>TSZ07</td>
<td></td>
</tr>
<tr>
<td>TZ857</td>
<td>Requires DEC NSR for support in OSF/1 AXP</td>
</tr>
</tbody>
</table>
Options You Can Upgrade

Monitors and input devices that you can use with the DEC 3000 Model 600 are listed in the following tables:

<table>
<thead>
<tr>
<th>Monitors</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>VR319-C%</td>
<td>Appropriate 66 Hz graphics option required</td>
</tr>
<tr>
<td>VR319-D%</td>
<td></td>
</tr>
<tr>
<td>VR320-C%</td>
<td>Appropriate 66 Hz graphics option required</td>
</tr>
<tr>
<td>VR320-D%</td>
<td></td>
</tr>
<tr>
<td>VRC16-H%</td>
<td></td>
</tr>
<tr>
<td>VRM17-H%</td>
<td></td>
</tr>
<tr>
<td>VRT16-H%</td>
<td></td>
</tr>
<tr>
<td>VRT19-H%</td>
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</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></td>
</tr>
<tr>
<td>VSXXX–AA</td>
<td></td>
</tr>
<tr>
<td>VSXXX–JA</td>
<td></td>
</tr>
<tr>
<td>VSXXX–GA</td>
<td></td>
</tr>
<tr>
<td>LK 201/LK 401</td>
<td></td>
</tr>
<tr>
<td>VSX10–AA/A3</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>VSX20–AA/A3</td>
<td></td>
</tr>
<tr>
<td>VSX30–AA/A3</td>
<td></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 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:

```
>>> cnfg 3
3: KNO2 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.
Upgrade Procedure

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.
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.
Upgrade Procedure

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.
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.
Step 8: Remove Modules

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

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.
Upgrade Procedure

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.

Settings for drives not shown here can be found in the DEC 3000 Model 600/600S AXP Options Guide or in the option documentation.

The following illustrate the SCSI ID settings for an RZ23L and an RZ24 drive.

RZ23L Drive:
Upgrade Procedure

RZ24 Drive:

SCSI Settings:

1
2
3
4
5
6

MLO-010586
Upgrade Procedure

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 Options Guide. Follow the instructions in the DEC 3000 Model 600/600S Owner’s Guide to complete the upgrade.

2. Update the customer service contract to the DEC 3000 Model 600/600S AXP system.

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.
Upgrading a DECstation/DECsystem 5000 Model 200/240/260

Topics Covered in This Chapter

• Options you can upgrade
• Upgrading your system
• Removing modules
• Completing the upgrade

Options You Can Upgrade

Internal/External Options

Options that are supported internally or externally on the DEC 3000 Model 600/600S 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>RZ24L</td>
<td></td>
</tr>
<tr>
<td>RZ24</td>
<td></td>
</tr>
<tr>
<td>RZ25</td>
<td></td>
</tr>
<tr>
<td>RZ26</td>
<td></td>
</tr>
</tbody>
</table>
Options You Can Upgrade

<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>TLZ06</td>
<td>Including tabletop devices</td>
</tr>
<tr>
<td>TZ30</td>
<td></td>
</tr>
<tr>
<td>TZK10</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Graphics Modules</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV10U–AA/DA</td>
<td></td>
</tr>
<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–J A/J B</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>
</tbody>
</table>
Options You Can Upgrade

### External Options

Options that are supported externally on the DEC 3000 Model 600/600S 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>

<table>
<thead>
<tr>
<th>Disk/Tape Drives</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>RZ55</td>
<td></td>
</tr>
<tr>
<td>RZ56</td>
<td></td>
</tr>
<tr>
<td>RZ58</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>TZ85</td>
<td></td>
</tr>
<tr>
<td>TZ857</td>
<td>Requires DEC NSR for OSF/1 AXP support</td>
</tr>
<tr>
<td>TSZ07</td>
<td></td>
</tr>
</tbody>
</table>
Options You Can Upgrade

### Options for Workstations

Monitors and input devices that are supported on the DEC 3000 Model 600 are listed in the following tables:

<table>
<thead>
<tr>
<th>Monitors</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>VR319-C%</td>
<td>Appropriate 66 Hz graphics option required</td>
</tr>
<tr>
<td>VR319-D%</td>
<td></td>
</tr>
<tr>
<td>VR320-C%</td>
<td>Appropriate 66 Hz graphics option required</td>
</tr>
<tr>
<td>VR320-D%</td>
<td></td>
</tr>
<tr>
<td>VRC16-H%</td>
<td></td>
</tr>
<tr>
<td>VRM17-H%</td>
<td></td>
</tr>
<tr>
<td>VRT16-H%</td>
<td></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></td>
</tr>
<tr>
<td>VSXXX–FA</td>
<td></td>
</tr>
<tr>
<td>VSXXX–AA</td>
<td></td>
</tr>
<tr>
<td>VSXXX–JA</td>
<td></td>
</tr>
<tr>
<td>VSXXX–GA</td>
<td></td>
</tr>
<tr>
<td>LK201/LK401</td>
<td></td>
</tr>
<tr>
<td>VSX10–AA/A3</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>VSX20–AA/A3</td>
<td>DEC Open3D required for software support</td>
</tr>
<tr>
<td>VSX30–AA/A3</td>
<td>DEC Open3D required for software support</td>
</tr>
</tbody>
</table>
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:

```bash
>>> 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.
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.

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.

**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.
Upgrade Procedure

Settings for drives can be found in the expansion box documentation.

**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 Options Guide. Follow the instructions in the DEC 3000 Model 600/600S Owner’s Guide to complete the upgrade.

2. Update the customer service contract to the DEC 3000 Model 600/600S 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 DECSYSTEM 3100

Topics Covered in This Chapter

- Options you can upgrade
- Upgrading your system
- Removing drives
- Completing the upgrade

Options You Can Upgrade

<table>
<thead>
<tr>
<th>Drives</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>RZ24</td>
<td></td>
</tr>
<tr>
<td>TZ30</td>
<td></td>
</tr>
</tbody>
</table>
Options You Can Upgrade

External Options

Options that are supported externally on the DEC 3000 Model 600S are listed in the following tables:

<table>
<thead>
<tr>
<th>Expansion Box</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>SZ12/RZ5X</td>
<td></td>
</tr>
</tbody>
</table>

Drives

<table>
<thead>
<tr>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>RX23 OSF/1 AXP support only</td>
</tr>
<tr>
<td>RZ55 OSF/1 AXP support only</td>
</tr>
<tr>
<td>RZ56 OSF/1 AXP support only</td>
</tr>
<tr>
<td>TKZ08 OSF/1 AXP support only</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 display the SCSI ID settings of the drives in your DECsystem:

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

>>> test -c
.
.
Unit(2) Device type 0 DISK
  RME 0x0
  Version 1
  Response data format 1 CCS
  Additional length 31
  Vendor DEC
  Product identification RZ24 (C) DEC
  Firmware revision level 0700

Unit(1)
Unit(0) Device type 0 DISK
  RME 0x0
  Version 1
  Response data format 1 CCS
  Additional length 31
  Vendor DEC
  Product identification RZ24 (C) DEC
  Firmware revision level 0700

>>

This display shows one RZ24 set to SCSI ID 0 and a second RZ24 set to SCSI ID 2.

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 the 0 on the On/Off switch.

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.
Upgrade Procedure

Step 4: Remove System Cover

1. Loosen, but do not remove, the two screws at the back of the unit.
2. Facing the front of the system unit, grip both sides of the cover and slide it toward you to disengage it from the guides.
3. Lift the cover away from the unit and set it aside.

Step 5: Remove RZ24

To remove the disk drive from the mounting panel:
1. Disconnect the SCSI cable from the drive by gently pulling the connector straight out.
2. Disconnect the drive power cable from the drive.
3. Remove the drive and bracket from the drive mounting panel by using a 5/16-inch socket wrench to unscrew the nuts from the four studs or loosen the captive screw, shown in Figure 7-1.
4. Lift the drive and bracket off the studs. If there is a captive screw, lift the drive bracket from the cutouts in the mounting panel.
5. Remove the drive mounting bracket by removing the four screws that secure the drive to the mounting bracket.
6. Set the drive aside on an antistatic mat.
Step 6: Remove RX23

To remove the drive:
1. Press down and hold the drive plate lever.
2. Slide the drive toward and over the drive plate lever and into the large openings of the keyhole slide mounts.
3. Lift the drive up and away from the mounting panel.
4. Disconnect the SCSI cable from the drive logic module by pushing the connector latches in opposite directions. Then gently pull the connector straight up.

5. Disconnect the drive power cables from the drive and the logic module.

6. Remove the four screws that secure the drive to the drive plate.

7. Set the drive aside on an antistatic mat.

**Step 7: 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. SCSI settings not found here can be found in the DEC 3000 Model 600/600S Options Guide or in the option documentation.

The following illustrates the SCSI ID settings for an RZ24 drive.
The following illustrates the SCSI ID settings for an RX23 drive.
Upgrade Procedure

Step 8: 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.

![Diagram of metal support plate and rubber grommets](MLO-010588)

Step 9: Complete the Upgrade
Instructions for installing options that you have removed from your current system can be found in the DEC 3000 Model 600/600S Options Guide. Follow the instructions in the DEC 3000 Model 600/600S Owner’s Guide to complete the upgrade.

Step 10: Return Your DECsystem to Digital
Return your DECsystem and any devices that are not upgradeable to Digital.

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

2. Attach the return-address label that was in your upgrade kit.

Step 11: Update Service Contract
Update the customer service contract to the DEC 3000 Model 600S AXP system.
Upgrading a DECsystem 5100

Topics Covered in This Chapter
- Options you can upgrade
- Upgrading your system
- Removing drives
- Completing the upgrade

Options You Can Upgrade

Internal/External Options
Options that are supported internally or externally on the DEC 3000 Model 600S are listed in the following tables:

<table>
<thead>
<tr>
<th>Drives</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>RZ23L</td>
<td></td>
</tr>
<tr>
<td>RZ24</td>
<td></td>
</tr>
<tr>
<td>RZ25</td>
<td></td>
</tr>
<tr>
<td>TZ30</td>
<td></td>
</tr>
<tr>
<td>RRD42</td>
<td></td>
</tr>
<tr>
<td>TZE10</td>
<td></td>
</tr>
</tbody>
</table>
Options You Can Upgrade

External Options

Options that are supported externally on the DEC 3000 Model 600S are listed in the following tables:

<table>
<thead>
<tr>
<th>Expansion Box</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>SZ12</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Drives</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLZ04</td>
<td>OSF/1 AXP support only</td>
</tr>
<tr>
<td>TKZ08</td>
<td>OSF/1 AXP support only</td>
</tr>
<tr>
<td>RX23</td>
<td>OSF/1 AXP support only</td>
</tr>
<tr>
<td>TSZ07</td>
<td></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 display the SCSI ID settings of the drives in your DECSys:

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

   ```
   >>> conf -s
   
   scsi peripherals
   unit type   product      removable/fixed capacity
   0 disk      RZ56 (C) DEC  fixed      634 MBs
   3 disk      RZ24         fixed      209 MBs
   5 tape      TZ30         removable   
   7 host adapter
   
   This display shows an RZ56 set to SCSI ID 0, an RZ24 set to SCSI ID 3, and a TZ30 set to SCSI ID 5.
   ```
Upgrade Procedure

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

Step 2: Shut Down System
Set the On/Off switch on the back of the system unit to the off (0) position.
Caution: After you turn off the system, wait 15 seconds before unplugging the power cord.

Step 3: Disconnect the Cables
Disconnect all the cables connected to the system unit.
Disconnect the power cord from the wall outlet and then the system unit.
Upgrade Procedure

Step 4: Remove System Cover

1. Loosen the two cover screws on the back of the system unit.
2. Slide the cover forward, and up, off the system unit.

![Cover Screw Locations](image_url)

Step 5: Remove Upper Drive Mounting Panel

Depending on your system configuration, the upper drive mounting panel can contain one, two, or three hard disk drives. These drives can be either RZ23 or RZ24 disk drives.

To remove the upper drive mounting panel:

1. Disconnect the power cable and the SCSI cable from the drives on the upper mounting panel.
2. Loosen the four captive screws located on the upper drive mounting panel.
Upgrade Procedure

Adapter (TZ30 Only)
SCSI Connector to System Module
External SCSI Connector
Power Connectors for RX23
Power Supply
Lower Drive Mounting Panel
Upper Drive Mounting Panel

Upper Drive Panel Power
Lower Drive Panel Power
Data
3. Lift the upper drive mounting panel from the lower drive mounting panel and gently set it aside.

**Step 6: Remove EMI Shield, If Present**

Your system may have an EMI shield located between the upper and lower drive shelves. The shield has several “fingers” touching the upper shelf.

**Warning**

Do not pull the EMI shield directly up out of the system. This may cause injury.
Upgrade Procedure

To remove the shield from the lower shelf:

1. From the front of the enclosure, grasp the shield with both hands near the middle and gently pull it forward (towards the devices on the lower shelf, if present).
   Lift the shield toward the front of the enclosure, simultaneously pulling forward to release the two tabs under the shelf.

2. Remove the SCSI and power cables from the slots in the EMI shield.
   Set the shield aside.
Step 7: Remove Communications Option, If Present

Your system may have a communications option installed on the lower drive shelf.

To remove this option:

1. Disconnect the cable from the second modem port connector on the option.
2. Remove the two universal connector screws, and then remove the second modem cable from the system unit.
Upgrade Procedure

3. Disconnect the signal cable from the system module.
4. Unscrew the three captive screws on the communications module.
5. Release the communications module from the five standoffs and remove it from the system unit.

Step 8: Remove Lower Drive Mounting Panel

The lower drive mounting panel can contain RZ23 disk drives, RX23 disk drives, a TZ30 tape drive, an RRD42 CD-ROM, or a TZK10 tape drive. To remove the lower drive mounting panel:

1. Disconnect the SCSI cable and the power cable connected to the drives.
Upgrade Procedure

2. Remove the two screws securing the cover plate to the lower drive mounting panel. Remove the two screws securing the cover plate to the back panel of the system unit. Remove the cover plate.

3. Loosen the four captive screws on the lower drive mounting panel. Two are located near the back panel. Two are located near the power supply. Loosen the three screws on the right side of the panel. Slide the panel forward and away from the system unit.
Step 9: Remove Device

To remove the device:

1. Turn the drive mounting panel over, and while supporting the device with one hand, loosen the two screws in the keyhole slots holding the device to the mounting panel. Remove the other two screws.

2. Slide the device to one side and remove it from the mounting panel. Remove the two screws loosened earlier.
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. SCSI settings not found here can be found in the DEC 3000 Model 600/600S Options Guide or in the option documentation.

The following illustrate SCSI ID settings:

**RZ23L Drive:**
Upgrade Procedure

RZ24 Drive:

SCSI Settings:

1
2
3
4
5
6
Upgrade Procedure

**Step 11: 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.

![Diagram of Metal Support Plate and Rubber Grommets](MLO-010588)

**Step 12: Complete the Upgrade**

Instructions for installing options that you have removed from your current system can be found in the DEC 3000 Model 600/600S Options Guide. Follow the instructions in the DEC 3000 Model 600/600S Owner's Guide to complete the upgrade.

Update the customer service contract to the DEC 3000 Model 600S AXP system.

**Step 13: Return Your DECsystem to Digital**

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

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

2. Attach the return-address label that was in your upgrade kit.
 Topics Covered in This Chapter

- Options you can upgrade
- Upgrading your system
- Removing drives
- Completing the upgrade

Options You Can Upgrade

Internal/External Options

Options that are supported internally or externally on the DEC 3000 Model 600S are listed in the following tables:

<table>
<thead>
<tr>
<th>Drives</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>TZ30</td>
<td></td>
</tr>
<tr>
<td>TZK10</td>
<td></td>
</tr>
<tr>
<td>RZ25</td>
<td></td>
</tr>
<tr>
<td>RRD42</td>
<td></td>
</tr>
</tbody>
</table>
Options You Can Upgrade

External Options

Options that are supported externally on the DEC 3000 Model 600S are listed in the following tables:

<table>
<thead>
<tr>
<th>Drives</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>RZ56</td>
<td></td>
</tr>
<tr>
<td>TLZ04</td>
<td></td>
</tr>
<tr>
<td>SZ12</td>
<td></td>
</tr>
<tr>
<td>RX23</td>
<td>OSF/1 AXP support only.</td>
</tr>
<tr>
<td>TSZ07</td>
<td></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 display the SCSI ID settings of the drives in your DECsystem:

1. Enter the following command to shut down the software and put the system in console mode: `shutdown -h now`
2. Enter `maint` at the prompt (>>).
3. Enter `show scsi` at the prompt (>>>).
Upgrade Procedure

>> maint
>>>show scsi

SCSI Node 0
-tz(0,0*) (TLZ04)

SCSI Node 1
-rz(0,1,*) (RZ56)

>>>exit
>>

This display shows a TLZ04 set to SCSI ID 0 and an RZ56 set to SCSI ID 1.

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

Step 2: Shut Down System

1. To access the power switch, you must turn the keylock to the bottom position. Pull the door open.

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

3. Remove external cables.
Upgrade Procedure

Figure 9–1 Keylock Positions

Key Lock

Top Key Position

Bottom Key Position
Upgrade Procedure

Step 3: Locate the RZ56E

The DECsystem 5500 mass storage shelf extends across the top of the enclosure.

Figure 9–2 Mass Storage Shelf
Upgrade Procedure

Note that the front panel of the RZ56E drive, unlike the front panel for the EF/RF and RF series drives, has no buttons or indicators, only a plug for the bus node ID.

Figure 9–3 Front Panel Assemblies
Step 4: Remove the RZ56E

To remove the drive:

1. Loosen the captive Phillips screw that secures the front panel. See Figure 9–3.

2. Separate the front panel from the enclosure, being careful of the remote front panel cable, which is connected to the front panel.

3. Unplug the remote front panel cable from the module inside the front panel, and set the front panel aside. See Figure 9–4.

4. Loosen the upper and lower captive screws that hold the drive in place. See Figure 9–4.

5. Using the upper and lower finger cutouts on the drive bracket, carefully pull the drive out of its backplane connector and slide the drive out of the enclosure. Support the weight of the drive at the underside of the lower bracket as the drive clears the enclosure.

                      Caution

Do not touch the drive module. The drive module contains sensitive electronic circuitry.
Upgrade Procedure

Figure 9–4 Remove RZ56E

A

Phillips Screw

RZ 5.25-inch

B

Remote Front Panel Cable

Velcro

EF/RF/RZ 5.25-inch

C

RF 3.5-inch

D

Captive Screws

Remote Front Panel Cable

Guide Tabs

Finger Cutouts

9–8 Upgrading a DECsystem 5500
Step 5: Remove Drive Bracket from RZ56E

To remove the drive bracket:

1. Place the drive with its bracket on an antistatic mat.
2. Remove the two Phillips screws at the rubber shock bushing that secure the top bracket to the drive assembly.

Figure 9–5 Remove Bracket Screws
Upgrade Procedure

3. Slide the interface card assembly up and lift off the top bracket. Place the bracket aside.

Figure 9–6 Remove Drive Top Bracket
4. Unplug the 4-pin power cable and the SCSI cable from their connectors on the drive controller module.

5. Unplug the remote front panel cable from the controller module on the drive.

Figure 9–7  Disconnect Cables
Upgrade Procedure

Figure 9–8  Remove the Bottom Bracket

6. Remove the bottom bracket by removing the two Phillips screws at the rubber shock bushings that secure the bracket to the drive assembly. Put the bottom bracket and the screws aside.
Step 6: Remove TLZ04 Tape Drive

Use the following instructions to remove the tape drive. Refer to Figure 9–9.

1. Locate the TLZ04 tape drive on the mass storage shelf. As you face the shelf, the TLZ04 is on the far right.

2. Loosen the captive Phillips screw that secures the front panel to the mass storage shelf.

3. Unplug the ID cable from the TLZ04 front panel and set the front panel aside (Figure 9–9B).

4. Loosen the upper and lower captive screws that hold the drive in place (Figure 9–9C).

   Caution

   Do not touch the drive module. The drive module contains sensitive electronic circuitry.

5. Using the upper and lower finger cutouts on the drive brackets, carefully pull the drive out of its backplane connector and slide the drive out of the enclosure. Support the weight of the drive at the underside of the lower bracket as the drive clears the enclosure (Figure 9–9C).
Upgrade Procedure

Figure 9–9 Remove the TLZ04 Tape Drive
Step 7: Remove the Top Mounting Bracket

1. Place the drive on an antistatic mat.
2. Remove the two Phillips screws at the rubber shock bushings that secure the top bracket to the tape drive (Figure 9–10).

Figure 9–10 Remove Bracket Screws

3. Slide the interface card assembly up and lift off the top bracket (Figure 9–11). Put the bracket aside.
Upgrade Procedure

Figure 9–11  Remove the Drive Top Mounting Bracket

Upper Bracket

Interface Card Assembly

MLO-0800
Step 8: Remove the Bottom Mounting Bracket

Remove the bottom mounting bracket as follows:

1. Unplug the 4-pin power cable and the SCSI cable from their connectors on the drive controller module.
2. Unplug the remote front panel cable from the controller module on the drive.

Figure 9–12 Disconnect Cables

3. Remove the bottom bracket by removing the two Phillips screws at the rubber shock bushings that secure the bracket to the drive assembly. Put the bottom bracket and the screws aside.
Upgrade Procedure

Step 9: 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. SCSI settings can be found in the DEC 3000 Model 600/600S Options Guide or in the option documentation.
Upgrade Procedure

**Step 10: Complete the Upgrade**

Instructions for installing options that you have removed from your current system can be found in the DEC 3000 Model 600/600S Options Guide. Follow the instructions in the DEC 3000 Model 600/600S Owner’s Guide to complete the upgrade.

Update the customer service contract to the DEC 3000 Model 600S AXP system.

**Step 11: Return Your DECsystem to Digital**

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

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

2. Attach the return-address label that was in your upgrade kit.
No Options Can Be Upgraded

There are no options that you can remove from systems, such as a DECsystem 5400/5800, and install in your DEC 3000 Model 600S.

Upgrade Procedure

To upgrade your current system, follow these steps:

Step 1: Return Your DECsystem to Digital

Return your DECsystem and any devices that are not upgradeable to Digital.
1. Pack the DECsystem and devices securely in packing material.
2. Attach the return-address label that was in your upgrade kit.

Step 2: Update Service Contract

After installing the DEC 3000 Model 600S, update the customer service contract to the DEC 3000 Model 600S AXP system.