Digital AlphaServer 1000 Series

Upgrade Information

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Options You Can Upgrade

Purpose of
GuideThe purpose of this guide is to tell customers and Digital
Services which options can be removed from their current system
and used, internally or externally, in their Digital AlphaServer
1000 Series system. Step-by-step instructions are provided for
removing the options.

Options You Can Upgrade

The following options can be used with the Digital AlphaServer 1000 Series system:

Option	Description	Comments
RZ26L	1.05 GB SCSI	Requires SWXBA-BA
RZ28	2.1 GB 3.5" SCSI	Requires SWXBA-BA

	Internal or External Tape Drives/CD–ROM Drives
TLZ06	4 GB 4 MM DAT drive
TLZ07	8 GB 4mm DAT tape
TZK10	525 MB QIC tape
TZK11	2.0 GB QIC tape
RRD43	600 MB CD-ROM
RRD44	600 MB HI-PERF CD–ROM

Options You Can Upgrade

Option	Description	Comments
	Graphics	Option
PB2GA-AA	COMPAQ Qvisio	n
	Monito	ors
VRC21-HA/H4	21" color	
VRT17-HA/HB	17" color	
	Keybo	ard
LK411		
	Expansion	Boxes
BA350	Deskside	

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.

Options You Can Upgrade



Figure 1–1 Kit Contents

Topics Covered in This Chapter	Upgrading your system						
	• Rem	oving dı	rives				
	• Rem	oving m	odules				
	• Com	pleting	the upgra	de			
Step 1: If Your System Has Factory-Installed	If your Digital AlphaServer 1000 Series system has factory- installed drives, you may need to change the SCSI IDs on the drives you are upgrading.						
Drives	To determine the SCSI ID settings on your drives:						
	1. Shut down your software following the instructions in your software documentation.						
	2. Ente to di to th	r the <i>sh</i> splay th e follow	o <i>w device</i> e SCSI ac ing appea	e comma ldress f ars:	and at the c for each dri	consol ve. A	e prompt (>>>) display similar
	>>> show	device	Return				
	BOOTDEV	ADDR	DEVTYPE	RM/FX	DEVNAM	REV	NUMBYTES
	ESA0 DVA0 SCSI Devi	08-00- PC Flo	2B-2E-2E- ppy DISK	C3			
	DKA0 MKA200 DKA200 HOST	A/0/0 A/0/0 A/4/0 A/5/0	DISK TAPE RODISK PROC	FX RM RM	RZ25 TZK10 RRD42 AHA1742A	007 03B8 4.5D G	426.25MB

	The SCSI address for each drive is indicated in the ADDR column, as shown above. The drive model is shown in the DEVNAM column. In this example, A/0/0 indicates an address of 0 on the SCSI A (internal device) bus for an RZ25, A/4/0 indicates an address of 4 on the SCSI-A bus for an RRD42, and so on.
	Write down the drive names and SCSI addresses here for later reference.
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 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: Removing the Front Bezel	The following table lists the steps that you must follow to remove the front bezel:
	Sten Action

Step	Action
1	Unlock the system unit using the chassis key ($lacksquare$).
2	Remove the top cover (2) by sliding it to the rear of the system unit and lifting it.
3	Press the two locking tabs $(\textcircled{0})$ on the front bezel $(\textcircled{0})$, then tilt it forward, and remove it.





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Step 5:The following table describes how to remove the EMC shields:Removing theEMC Shields

Step	Action
1	Remove the screw (①) securing the top EMC shield to the removable media device shelf above it.
2	Remove the screws (2) at both sides of the EMC shield securing it to the chassis and lift the EMC shield off the one below it.
3	Repeat step 2 for each small EMC shield that you want to remove.
4	Remove the screws at both sides of the large EMC shield and lift it off the lip at the bottom of the system unit.

Figure 2–2 Removing the EMC Shields



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Step 6:	This step is necessary only if you are migrating an option module
Opening the	to your new system.
Rear Sliding Compartment	The following table lists the steps that you must follow to open the rear sliding compartment:

Step	Action
1	Unlock the system unit using the chassis key ($oldsymbol{0}$).
2	Loosen the six captive screws (2).
3	Hook the handle ($oldsymbol{\Theta}$) onto the rear sliding compartment as shown.
4	Pull the sliding compartment out until the locking clip clicks into place.



Figure 2–3 Opening the Rear Sliding Compartment

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Step 7: Identifying Device Slots

The following table lists the device slots and indicates the types of devices that could be present in each slot:

Slot	Cable	Supported Devices
0	IFP cable	IFP
0	PC/AT cable	3.5-inch diskette drive
0	SCSI cable 1	5.25-inch removable media device
4	SCSI cable 1	5.25-inch removable media device
6	SCSI cable 1	5.25-inch removable media device or 3.5-inch disk drives (2)
6	SCSI cable 1	3.5-inch disk drives (2)
0		Must be vacant
8	SCSI cable 2	3.5-inch disk drives (2)
Ø	SCSI cable 2	3.5-inch disk drives (2)
0	SCSI cable 2	3.5-inch disk drives (2)
0	SCSI cable 2	3.5-inch disk drives (2)

Figure 2–4 Device Slots in the System Unit



Step 8: Removing a 3.5-Inch Disk	The following table describes how to remove a 3.5-inch disk drive:	
Drive	Step	Action
	1	Disconnect the SCSI ribbon cables (①) from both connectors on the disk drive shelf.
	2	Remove the shelf (2) from the slot.
	3	Remove the four screws that secure the appropriate disk drive to the drive shelf and disconnect the shelf SCSI and power cables.

Figure 2–5 Removing a 3.5-Inch Disk Drive



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Figure 2–6 Removing a Disk Drive from a Disk Drive Shelf

	_	Note			
ng nch able Device	To remove a removable media device shelf, you must remove the shelf below it. Therefore, to remove the top removable media device shelf, you may first have to remove up to three other shelves below it. Follow this procedure until you remove the correct shelf.				
	The fe a 5.25	The following table lists the steps that you must follow to remove a 5.25-inch removable media device:			
	Step	Action			
	1	Remove the disk drive shelf from device slot 6 (following the previous instructions).			
	2	Remove the screws (0) securing all the removable media devices to the chassis.			
	3	Starting with the top removable media shelf, pull each removable media shelf towards the front of the system until it extends about half way.			
		If a shelf stops moving before it extends half way, pull the shelf below it forward. Repeat this step until all the removable media shelves extend half way.			
	4	Pull the top shelf out fully and disconnect the SCSI cable (②) from the drive.			
	5	Repeat step 4 until you remove the correct shelf.			
	6	Disconnect the shelf power cable from the removable media device and unscrew it from the removable media shelf.			

Step 9: Removing a 5.25-Inch Removable Media Device



Figure 2–7 Removing a 5.25-Inch Removable Media Device

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Step 10: Removing an Option Board	The following table lists the steps you must follow to remove an option board:		
	Step	Action	
	1	If necessary, disconnect any cables connected to other option boards that prevent you from accessing the option board that you want to remove.	
	2	Disconnect any cables connected to the external or internal ports on the option board.	
	3	Remove the screw (\bullet) securing the option board to the chassis.	

4	Carefully disconnect the option board from the connector on the system module and remove it from the system.
	•



Figure 2–8 Removing an Option Board

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Step 11: Set SCSI IDs on Drives	If your Digital AlphaServer 1000 Series system has a factory- installed disk drive, it is set to SCSI ID 0. Check the SCSI ID settings you noted earlier. If one of the drives you are upgrading is also set to SCSI ID 0, change that setting.	
	See Appendix A for the SCSI ID drive settings.	
Step 12: Complete the Upgrade	1. Follow the instructions in the <i>Digital AlphaServer 1000</i> Series Owner's Guide and the StorageWorks Solutions Storage Device Installation Guide to install the options you have removed from your system and to complete the upgrade.	
	2. Contact your Digital service representative to upgrade your hardware service contract.	
Step 13: Return	Return your system as follows:	
Your System to	1. Pack the system unit securely in packing material.	
Digital	2. Attach the return-address label that came in the upgrade accessory kit.	

Topics Covered in This Chapter

- Upgrading your system
- Removing drives
- Completing the upgrade

Upgrade Procedure

Step 1: If Your System Has Factory-Installed	If your Digital AlphaServer 1000 Series system has factory- installed drives, you may need to change the SCSI IDs on the drives you are upgrading.	
Drives	To determine the SCSI ID settings on your drives:	
	1. Shut down your software following the instructions in your software documentation.	
	2. Enter the <i>show device</i> command at the console prompt (>>>) to display the SCSI address for each drive. A display similar	

to the following appears:

3

>>> show device Return BOOTDEV ADDR DEVTYPE NUMBYTES RM/FX WP DEVNAM REV ____ _____ __ ____ _____ ESAO 08-00 12-00-9C DKA0
 DKA0
 A/0/0
 DISK
 426.25MB
 FX
 RZ25
 0700

 DKA100
 A/1/0
 DISK
 426.25MB
 FX
 RZ25
 0700
DKA400 A/4/0 RODISK RM WP RRD42 4.3D ..HOSTID..A/7 INITR ..HOSTID..B/7 INITR >>> The SCSI address for each drive is indicated in the ADDR column, as shown above. The drive model is shown in the DEVNAM column. In this example, A/0/0 indicates an address of 0 on the SCSI A (internal device) bus for an RZ25, A/4/0 indicates an address of 4 on the SCSI-A bus for an RRD42, and so on. Write down the drive names and SCSI addresses here for later reference. Step 2: Shut Turn off the system unit by pressing 0 on the On/Off switch on **Down System** the rear of the system unit. Caution: After you turn off the system, wait 15 seconds before unplugging the power cord. Step 3: Disconnect all the cables from the back of the system unit. Disconnect Disconnect the power cord from the wall outlet and then from Cables the system unit. Step 4: Loosen the captive screw **0** on the back of the system unit. With Remove one hand on each side, pull firmly on the cover to pull it towards System Cover the front of the system unit and lift it off **2**.



Figure 3–1 Removing the System Cover

Step 5: Remove Removable Media Drive

1. Loosen the four screws holding the bracket in place and slide the bracket toward the back of the enclosure **O**.

Figure 3–2 Loosening the Screws on the Bracket



- 2. Position the drive bracket on its side to remove the four screws that mount the drive to the bracket. Remove the drive from the bracket **2**.
- 3. Remove the power cable connector attached to the drive **③**.
- 4. Remove the SCSI signal cable connector from the drive **④**.



Figure 3–3 Removing a Removable Media Device

Step 6: Remove a Disk Drive

- 1. Remove the SCSI signal cable from the drive **①**.
- 2. Disconnect the power cable connector from the drive **2**.
- 3. Press the retaining spring. Slide the drive toward the retaining spring and lift the drive out **3**.

Figure 3–4 Removing a Fixed Media Device



Step 7: Remove Mounting Brackets Remove the mounting bracket and rubber grommets from the fixed disk drive.

Set the drive aside on an antistatic mat.


Figure 3–5 Removing a Mounting Bracket

Upgrading a DEC 3000 Model 800S AXP

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 Digital AlphaServer 1000 Series 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 <i>show device</i> command at the console prompt (>>>)				

to display the SCSI address for each drive. A display similar to the following appears:

4

	>>> show o	device	Return					
	BOOTDEV	ADDR	DEVTYPE	NUMBYTES	RM/FX	WP	DEVNAM	REV
	ESA0 DKA0 DKA100 DKA200 DKA400 DKA500	 08-00-: A/0/0 A/1/0 A/2/0 A/2/0 A/4/0 A/5/0	2B-1D-1E-H DISK DISK DISK RODISK DISK	EF,THICK 1.05MB 426.25MB 426.25MB 	FX FX FX RM RM	WP	RZ26 RZ25 RZ25 RRD42 RX26	T368 0700 0700 4.3d 0068
	HostID. HostID.	.A/7 .B/7	INITR INITR					
	>>>							
	column, a DEVNAM of 1 on th indicates so on.	s show colum colum sCSI an add	n above. n. In this A (interr ress of 4 o	The drive s example, nal device) on the SCS	model A/1/0 i bus fo SI-A bu	is sl ndic r an s for	ates an RZ25.	the address A/4/0 D42, and
	Write dow later refe	on the or rence.	drive nam	ies and the	e SCSI	add	resses h	ere for
Step 2: Shut Down System	Turn off t the front	he syst of the s	em unit b system un	oy pressing it.	g 0 on t	he C	On/Off s	witch on
	Caution: unpluggir	After games and the particular sector of the sector of the particular sector of the particular sector of the secto	you turn (oower cord	off the sys 1.	tem, wa	ait 1	5 secon	ds before
Step 3: Disconnect Cables	Disconneo Disconneo the syster	et all th et the p n unit.	e cables f ower cord	from the b l from the	ack of wall ou	the s itlet	system and the	unit. en from

Step 4: Unlock Unlo Cover

Unlock the system cover, as shown.





Step 5: Remove Cover Remove the system cover by sliding it forward and lifting if off, as shown. Note that the cover must be removed before you can remove the front panel or either side panel.

Figure 4–2 Removing the System Cover



Step 6: Remove Right Remove the right side panel by pulling the tabs on the top edge away **1** and lifting the bottom edge out of the track **2**. Do not pull on the plastic part of the panel.

Panel



Figure 4–3 Removing the Right Side of the Panel

Step 7: Remove Front Panel Remove the front panel by releasing the catches at the top **①**. Pull the panel away **②** and unhook the panel bottom.





Step 8: Remove Removable Media Drive

1. Disconnect the SCSI and power cables from the system.

Figure 4–5 Disconnecting the System SCSI and Power Cables



2. Release the two thumbscrews and remove the drive bracket from the system.

Figure 4–6 Removing the Drive Bracket



3. Disconnect the SCSI and power cables from the drive and remove them from the bracket.

Figure 4–7 Location of Drive SCSI and Power Cables



4. Remove the two screws on each side of the drive bracket that secure the drive.





5. Lift the drive out of the bracket.

Step 9: Remove Fixed Disk Drive

1. To remove a fixed disk drive, press the release latch **1** at the top of the drive, and slide the drive up and away from the system unit.

Figure 4–9 Removing a Fixed Disk Drive



2. Remove the power and SCSI cables from the drive.

Step 10:Remove the mounting bracket and rubber grommets from the
fixed disk drive.Mounting
BracketsSet the drive aside on an antistatic mat.

Figure 4–10 Removing a Mounting Bracket



Step 11: Set SCSI IDs on Drives	If your Digital AlphaServer 1000 Series system has a factory- installed disk drive, it is set to SCSI ID 0. Check the SCSI ID settings you noted earlier. If one of the drives you are upgrading is also set to SCSI ID 0, change that setting.			
	See Appendix A for the SCSI ID drive settings.			
Step 12: Complete the Upgrade	 Follow the instructions in the <i>Digital AlphaServer 1000</i> Series Owner's Guide and the StorageWorks Solutions Storage Device Installation Guide to install the options you have removed from your system and to complete the upgrade. Contact your Digital service representative to upgrade your 			

Step 13: Return
Your System to
DigitalReturn your system as follows:1. Pack the system unit securely in packing material.2. Attach the return-address label that came in the upgrade
accessory kit.

5

Upgrading a DECsystem 5000 Model 25/50

Topics Covered in This Chapter

- Upgrading your system
- Removing drives
- Completing the upgrade

Upgrade Procedure

Step 1: If Your System Has Factory-Installed	If your Digital AlphaServer 1000 Series system has factory- installed drives, you may need to change the SCSI IDs on the drives you are upgrading.				
Drives	To display the SCSI ID settings of the drives in your DECsystem:				
	1. Enter the command to shut down the software and put the				

system in console mode: shutdown -h now

2. Enter cnfg 3 at the console prompt (>>>). A screen similar to the following appears:

>>> cnfg 3

3:	KNO2	DEC	Vn.n	TCF0			(12	MB)
	DEV	PID	VID	REV	SCSI	ID		
	rz2 rz5	RZ24 RX26	(C) DEC (C) DEC	0700 0700	DIR 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 O on the On/Off switch on the back of the system unit.
	Caution: After you turn off the system, wait 15 seconds before you unplug the power cord.
Step 3:	Disconnect all the cables from the back of the system unit.
Disconnect Cables	Disconnect the power cord from the wall outlet and then from the system unit.

Step 4: Remove Cover

- 1. Remove the two Phillips screws on the right and left top corners of the system unit cover.
- 2. Place the system unit so that the back of the unit extends over the edge of a table or desk.
- 3. Place your thumbs on top of the two black rubber caps on the back of the system unit, and place your fingers under the cover's bottom edge. Press with your thumbs, and, at the same time, pull up with your fingers to lift the cover.



Hint: If you have difficulty opening the enclosure, you can use a tool to pry up the cover as shown here.



- 4. Pivot the cover on the tabs that run along the system unit's front edge.
- 5. Push the system unit cover forward and away until it releases from the tabs.
- 6. Place the cover aside.

Step 5: Remove Fixed Disk Drives

- 1. Disconnect the drive SCSI and power cables from the system module.
- 2. Press down on the disk drive and unlock the sliding latch from the locking post.
- 3. Lift the drive off the locking post and out of the chassis cutouts.



- 4. Disconnect the power and SCSI cables from the drive.
- 5. Remove the drive mounting bracket by removing the four screws that secure the mounting bracket to the drive.
- 6. Set the drives aside on an antistatic mat.
- 7. Put all the disconnected cables back into the system unit.

Step 6: Set the
SCSI IDs on the
DrivesIf your Digital AlphaServer 1000 Series system has a factory-
installed disk drive, it is set to SCSI ID 0. Check the SCSI ID
settings you noted earlier. If one of the drives you are upgrading
is also set to SCSI ID 0, change that setting.

SCSI ID settings for drives can be found in Appendix A.

Step 7: Complete the Upgrade	1. Instructions for installing options that you have removed from your DECsystem and completing the upgrade can be found in the <i>Digital AlphaServer 1000 Series Owner's Guide</i> and the <i>StorageWorks Solutions Storage Device Installation</i> <i>Guide</i> .
	2. Update the customer service contract to the Digital AlphaSystem 1000 Series system.
Step 8: Return Your DECsystem to Digital	To return your DECsystem and any options that are not upgradeable to Digital:
	1. Pack the DECsystem and options securely in packing material.
	2. Attach the return-address label that was in your upgrade kit, and ship the package to Digital.

6 Upgrading a DECsystem 5000 Model 133/150

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 Digital AlphaServer 1000 Series 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. 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:

This sample display shows an RZ24 drive set to SCSI ID 2 and an RRD42 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	Turn off the system unit by pressing O on the On/Off switch on
Down System	the back of the system unit.
	Caution: After you turn off the system, wait 15 seconds before you unplug the power cord.
Step 3:	Disconnect all the cables from the back of the system unit.
Disconnect	Disconnect the power cord from the wall outlet and then from
Cables	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.



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 either side 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. Disconnect the power and SCSI cables 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 mounting bracket to the drive.
- 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: Set the SCSI IDs on the Drives	If your Digital AlphaServer 1000 Series system has a factory- installed disk drive, it is set to SCSI ID 0. Check the SCSI ID settings you noted earlier. If one of the drives you are upgrading is also set to SCSI ID 0, change that setting.			
	SCSI ID settings for drives can be found in Appendix A.			
Step 9: Complete the Upgrade	1. Instructions for installing options that you have removed from your DECsystem and completing the upgrade can be found in the <i>Digital AlphaServer 1000 Series Owner's Guide</i> and the <i>StorageWorks Solutions Storage Device Installation</i> <i>Guide</i> .			
	2. Update the customer service contract to the Digital AlphaServer 1000 Series system.			
Step 10: Return Your	To return your DECsystem and any options that are not upgradeable to Digital:			
DECsystem to Digital	1. Pack the DECsystem and options securely in packing material.			
	2. Attach the return-address label that was in your upgrade kit, and ship the package to Digital.			

Upgrading a DEC 2000 Model 300 AXP

Topics Covered in this Chapter

- Upgrading your system
- Removing drives
- Removing modules
- Completing the upgrade

Step 1: If Your System Has Factory-Installed Drives	If your Digital AlphaSystem 1000 Series 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 DEC 2000 Model 300 AXP system:				
	1. Enter the command to shut down the software and put the system in console mode following the instructions in your software documentation.				

2. Enter SHOW DEVICE at the console prompt (>>>). A screen similar to the following appears:

>>> SHOW DEVICE BOOTDEV ADDR DEVTYPE RM/FX DEVNAM REV NUMBYTES ----- ---- ----- -----ESA0 08-00-2B-2E-2E-C3 DVA0 PC Floppy DISK SCSI Devices..
 DKA0
 A/0/0
 DISK
 FX
 RZ25
 007
 426.25MB

 MKA200
 A/0/0
 TAPE
 RM
 TZK10
 03B8

 DKA200
 A/4/0
 RODISK
 RM
 RRD42
 4.5D

 HOST
 A/5/0
 PROC
 AHA1742A
 G
 G
 >>> This sample display shows an RZ25 drive set to SCSI ID 0, a TZK10 drive set to SCSI ID 2, and an RRD42 drive set to SCSI ID 4. Write down the names of your system drives and SCSI ID settings here. You will need them for future use. Step 2: Shut Turn off the system unit by pressing O on the On/Off switch on **Down System** the front of the system unit. Caution: After you turn off the system, wait 15 seconds before you unplug the power cord. Step 3: To disconnect the cables: Disconnect 1. Disconnect all the cables from the back of the system unit. Cables

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

Step 4: Remove Outside Cover

To remove the outside cover:

- 1. Unlock the outside cover using the chassis key **1**
- 2. Loosen the two captive screws **2**.
- 3. Slide the outside cover towards the rear of the system unit and remove it.

Figure 7–1 Removing the Outside Cover



Step 5:
Remove Inside
CoverNote that the peripheral bay cover ① may not be installed in
your system. It is installed only in older systems.
To remove the inside cover:1Demove the inside normalized peripheral bay ensure by incerting your

- 1. Remove the inside peripheral bay cover by inserting your finger into the circular hole **2** and lifting the cover out.
- 2. Remove the two screws ③ securing the large inside cover to the chassis. Keep the screws in a safe place.
- 3. Insert your finger into the circular holes ④ on the larger inside cover, then slide it towards the front of the system unit and remove it.



Figure 7–2 Removing the Inside Covers

Step 6: Remove Front Peripheral Bay Bezel To remove the front peripheral bay bezel:

- 1. Pull the bezel locking-latch **1** out until it stops.
- 2. Lift the front peripheral bay bezel from the bottom and then lift it out and off its hinges **2**.

Figure 7–3 Removing the Front Peripheral Bay Bezel



The following section describes how to identify the drive bays inside the system unit.

Item	Description
0	Front diskette drive bay-Accepts 3.5-inch diskette drives
0	Front 5.25-inch drive bays–Accepts 5.25-inch removable media devices or 3.5-inch disk drive devices
0	Rear disk drive bay–Accepts 3.5-inch disk drives

Figure 7–4 System Drive Bays

Step 7: Identifying the Drive Bays



Upgrading a DEC 2000 Model 300 AXP 7-7

Step 8: Remove SCSI Drive from Front Drive Bay To remove the SCSI drive from the front drive bay:

- 1. Disconnect the power cable **1** and the data cable **2** from the back of the drive.
- 2. Use a flat-head screwdriver ③ to free the locking clips from the slots on the side of the drive bay.
- 3. Slide the drive forward and remove it from the drive bay.
- 4. Unscrew the extension brackets (3.5-inch drives only), slide rails, and grounding clips from the drive.


Figure 7–5 Removing a SCSI Drive from a Front Drive Bay

Step 9: Remove Disk Drive from Rear Drive Bay To remove a disk drive from the rear drive bay:

- 1. Disconnect the power cable **1** and the data cable **2** from the back of the drive.
- Use a flat-head screwdriver to unscrew the captive screw
 securing the drive mounting bracket, if present, to the chassis.
- 3. Slide the drive forward to free the mounting bracket clips, if present, from their slots, then lift it and remove it from the drive bay.
- 4. Remove the disk drive from the mounting bracket or the chassis, by unscrewing the screws.



Figure 7–6 Removing a 3.5-Inch Drive from the Rear Drive Bay

Step 10: Disconnect SCSI Option Board Ribbon Cables To remove the SCSI option board ribbon cables:

- 1. Disconnect the larger ribbon cable **1** and place it aside.
- 2. Disconnect the smaller ribbon cable 2 and place it aside.

Figure 7–7 Disconnecting the SCSI Option Board Ribbon Cables



Step 11: Remove Option Board To remove an option board:

- 1. Remove the screw **O** securing the option board to the chassis.
- 2. Carefully disconnect the option board from the connectors on the system module and remove it from the system.





Step 12: Set the SCSI IDs on the Drives	If your Digital AlphaSystem 1000 Series system has a factory- installed disk drive, it is set to SCSI ID 0. Check the SCSI ID settings you noted earlier. If one of the drives you are upgradin is also set to SCSI ID 0, change that setting.		
	SCSI ID settings can be found in Appendix A.		
Step 13:	To complete the upgrade:		
Complete the Upgrade	1. Follow the instructions in the <i>Digital AlphaServer 1000</i> <i>Series Owner's Guide</i> and the <i>StorageWorks Solutions</i> <i>Storage Device Installation Guide</i> manual to install the options you have removed from your system and to complete the upgrade.		
	2. Update the customer service contract to the Digital AlphaSystem 1000 Series system.		
Step 14: Return Your System to	To return your system and any options that are not upgradeable to Digital:		
Digital	1. Pack the system and options securely in packing material.		
	2. Attach the return-address label that was in your upgrade kit, and ship the package to Digital.		

8

Upgrading a MicroVAX 3100 Model 30

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 Digital AlphaServer 1000 Series 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:

>>> sł	now config	
DEVNB	R DEVNAM	INFO
1	NVR	ок
3	DZ	OK
4	CACHE	OK
5	MEM	OK
		16MB = SY=8MB, S0/1=8MB, S2/3=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 the names of 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 O 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 all the cables from the back of the system unit.		
Disconnect Cables	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 toward 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.
- 4. Disconnect the SCSI and power cables from the back of the drive.

- 5. Remove all drive mounting brackets by removing the screws that secure the mounting bracket to the drive.
- 6. Set the drive aside on an antistatic mat.

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 lower drive shelf.
- 3. Disconnect the SCSI and power cables from the back of the drive.
- 4. Remove all drive mounting brackets 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 Digital AlphaServer 1000 Series system has a factoryinstalled disk drive, it is set to SCSI ID 0. Check the SCSI ID settings you noted earlier. If one of the drives you are upgrading is also set to SCSI ID 0, change that setting.

Settings for drives can be found in Appendix A.

Step 6: Remove Removable-Media Drive

Step 8: Complete the Upgrade	1. Follow the instructions in the <i>Digital AlphaServer 1000</i> Series Owner's Guide and the StorageWorks Solutions Storage Device Installation Guide to install options you have removed from your current system and to complete the upgrade.
	2. Update the customer service contract to the Digital AlphaServer 1000 Series system.
Step 9: Return Your MicroVAX	Return your MicroVAX system and any devices that are not upgradeable to Digital.
System 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.

9 Upgrading a MicroVAX 3100 Model 40/80/90/90A

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 dri are	If your Digital AlphaServer 1000 system has factory-installed drives, you may need to change the SCSI IDs on the drives you are upgrading.		
	То	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		

2. Enter SHOW CONFIG at the console prompt (>>>). A screen similar to the following appears:

	>>> SHOW CONFIG				
	DEVNBR DEVNAM	INFO			
	1 NVR 3 DZ 4 CACHE 5 MEM 6 FPU 7 IT 8 SYS 9 NI 10 SCSI	OK OK OK OK I6MB = SY=8MB, S0/1=8MB, SE/3=0MB, S4/5= 0MB OK OK OK OK OK OK OK OK OK			
	This display shows	s an RZ24 drive set to SCSI ID 3.			
	Write down the na settings here. You	ames of your system drives and SCSI ID will need them for future use.			
Step 2: Shut Down System	Turn off the system the system unit.	n unit by pressing O on the On/Off switch on			
	Caution: After yo you unplug the po	ou turn off the system, wait 15 seconds before wer cord.			
Step 3:	Disconnect all the	cables from the back of the system unit.			
Disconnect Cables	Disconnect the power cord from the wall outlet and then from the system unit.				
Step 4: Remove System Cover	1. Loosen the two unit. These sc	o captive screws on the back of the system rews can be loosened but not removed.			
	2. Slide the cover Set the cover a	r forward and lift it up from the system unit. 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 toward 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.
- 4. Disconnect the SCSI and power cables from the back of the drive.
- 5. Remove all drive mounting brackets 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.



- 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.

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.



Step 7: Remove Removable-media Drive

	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 all drive mounting brackets by removing the screws that secure the mounting bracket to the drive.
	5. Set the drive aside on an antistatic mat.
Step 8: Set the SCSI IDs on the Drives	If your Digital AlphaServer 1000 Series system has a factory- installed disk drive, it is set to SCSI ID 0. Check the SCSI ID settings you noted earlier. If one of the drives you are upgrading is also set to SCSI ID 0, change that setting.
	Settings for drives can be found in Appendix A.
Step 9: Complete the Upgrade	1. Instructions for installing options that you have removed from your current system can be found in the <i>Digital AlphaServer 1000 Series Owner's Guide</i> and the <i>StorageWorks Solutions Storage Device Installation Guide</i> .
	2. Update the customer service contract to the Digital AlphaServer 1000 Series system.
Step 10: Return Your Current System to Digital	Return your current 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.

10 Upgrading a DECsystem 5000 Model 200/240/260

Topics Covered in this Chapter	Upgrading your systemCompleting the upgrade
External Options Only	You can only upgrade expansion boxes from your DECsystem 5000 Model 200/240/260 to the Digital AlphaServer 1000 Series system.

Upgrade Procedure

Step 1: If Your System Has Factory-Installed Drives	If your Digital AlphaServer 1000 Series 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			

1. Enter the command to shut down the software and put the system in console mode: shutdown -h now

2. Enter cnfg 3 at the console prompt (>>>). A screen similar to the following appears:

>>> cnfg 3

3:	KNO2	DEC	Vn.n	TCF0		(12 MB)
	DEV	PID	VID	REV	SCSI ID	
	rz2 rz5	RZ24 RX26	(C) DEC (C) DEC	0700 0700	DIR SEQ	

This 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 O on the On/Off switch on the back of the system unit.			
	Caution: After you turn off the system, wait 15 seconds before you unplug the power cord.			
Step 3:	Disconnect all the cables from the back of the system unit.			
Disconnect Cables	Disconnect the power cord from the wall outlet and then from the system unit.			

Step 4: Complete the Upgrade	 Instructions for installing options that you have removed from your current system can be found in the <i>Digital AlphaServer 1000 Series Owner's Guide</i> and the <i>StorageWorks Solutions Storage Device Installation Guide</i>. Update the customer service contract to the Digital AlphaServer 1000 Series system.
Step 5: 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.

11 Upgrading a DECsystem 5100

Topics Covered in This Chapter

- Upgrading your system
- Removing drives
- Completing the upgrade

Step 1: If Your System Has Factory-Installed Drives	If your Digital AlphaServer 1000 system has factory-installed drives, you may need to change the SCSI IDs on the drives you are upgrading.				
	To dis	play the SCSI l	D settings of th	e drives in your DE	ECsystem:
	1. Ei sy	nter the comma stem in console	and to shut down mode: shutdow	n the software and m -h now	put the
	2. Ei to	nter conf -s at the following a	the console pro ppears:	mpt (>>>). A screen	n similar
	>>> cc	onf -s			
	: scsi r unit 0 3 5 7	peripherals type disk disk tape host adapter	product RZ56 (C) DEC RZ24 TZ30	removable/fixed fixed fixed removable	capacity 634 MBs 209 MBs

	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.
	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	Set the On/Off switch on the back of the system unit to the off (O) position.
	Caution: After you turn off the system, wait 15 seconds before you unplug the power cord.
Step 3: Disconnect the Cables	Disconnect all the cables connected to the system unit.

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.



RE_EN05175A_90



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.



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 (toward 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.



RE_EN05178A_90

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.		

- 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.

RE_EN05179A_90

Step 8: Remove Lower Drive Mounting Panel The lower drive mounting panel can contain RZxx disk drives, RX23 diskette 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.
- 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.



RE_EN05180A_90

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 keyhold 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.
- 3. Remove the drive mounting bracket by removing the screws that secure the drive to the mounting bracket.

Step 10: Set
SCSI IDs on
DrivesIf your Digital AlphaServer 1000 system has a factory-installed
disk drive, it is set to SCSI ID 0. Check the SCSI ID settings
you noted earlier. If one of the drives you are upgrading is also
set to SCSI ID 0, change that setting. Settings for drives can be
found in Appendix A.

Step 11: Complete the Upgrade	Follow the instructions in the <i>Digital AlphaServer 1000 Series</i> <i>Owner's Guide</i> and the <i>StorageWorks Solutions Storage Device</i> <i>Installation Guide</i> to install the options you have removed from your current system and to complete the upgrade.
	Update the customer service contract to the Digital AlphaServer 1000 Series 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.

12 Upgrading Other Systems

No Options Can Be Upgraded There are no options that you can remove from your DECsystem 3100/5400/5500, MicroVAX I/II/2000/3300/3400, VAX 82xx/83xx or other systems and install in your Digital AlphaServer 1000 Series system.

	To upgrade your current system, follow the two steps listed below.
Step 1: Return Your Current System to Digital	Return your current system and devices to Digital.1. Pack the system and devices securely in packing material.2. Attach the return-address label that was in your upgrade kit.
Step 2: Update 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 Digital AlphaServer 1000 Series system.

Selecting SCSI	There are six possible SCSI ID settings (SCSI ID setting 7	
ADDRESS	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
SettingFollow 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 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 RRD43/44 Compact Disk Drive SCSI ID Settings

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-3 TLZ06/07 Tape Drive SCSI ID Settings

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–4 RZ26L Fixed Disk Drive SCSI Settings



Figure A–5 RZ28 Fixed Disk Drive SCSI Settings