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MicroVAX 3100 Platform Options Addendum: RZ26/RZ35, RZ24L, and TLZ06 Drives

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Digital Equipment Corporation

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About This Document

Overview

Introduction

This document is an addendum to the *MicroVAX 3100 Platform Options* (EK-A0519-MG.001). This document describes how to configure and install the RZ26/RZ35-EK disk drive option, the RZ24L-EH disk drive option, and the TLZ06-HG tape drive option in the MicroVAX 3100 platform systems. The TLZ06-HG tape drive option can be installed in both the MicroVAX 3100 and the VAX 4000 (BA42B enclosure) platform systems.

Intended Audience

This document is intended for Digital Services personnel and customers who have a self-maintenance agreement with Digital Equipment Corporation.

Contact your Digital Services representative if you want this option installed in your system. If you attempt to install this option, then you may invalidate the warranty.

Organization

This addendum contains three chapters and one appendix:

- Chapter 1 provides general information and instructions on installing the RZ26/RZ35-EK hard disk drive option.
- Chapter 2 provides general information and instructions on installing the RZ24L-EH hard disk drive option.
- Chapter 3 provides general information and instructions on installing the TLZ06-HG tape drive option.
- Appendix A provides a list of related documentation.

Continued on next page

Related Documentation

See Appendix A for a list of related documentation.

Conventions

The following conventions are used in this guide:

Convention	Meaning
NOTE	Provides general information about the current topic.
P/N	Part number

Chapter 1
RZ26/RZ35-EK Disk Drive

RZ26/RZ35-EK Disk Drive Option

Note

NOTE

Contact your Digital Services representative if you want the RZ26/RZ35-EK option installed in your system. If you attempt to install this option, then you may invalidate the warranty.

Description

The RZ26/RZ35 disk drive is a high performance 3.5 inch SCSI device. It has a formatted disk capacity of 1.05 GB/852M bytes. The RZ26/RZ35 disk drive stores data in fixed length blocks on thin-film rigid media disks. The storage medium in the disk drive is fixed (not operator removable).

Ordering Information

In order to install the RZ26/RZ35 disk drive in a MicroVAX 3100 platform system, the Digital Services employee will need to order the disk drive option, order number RZ26/RZ35-EK.

Option Contents

The RZ26/RZ35-EK option contains the RZ26/RZ35-E disk drive, mounting bracket (P/N 74-44226-01), and the four screws (P/N 12-31734-01).

RZ26/RZ35 SCSI ID Information

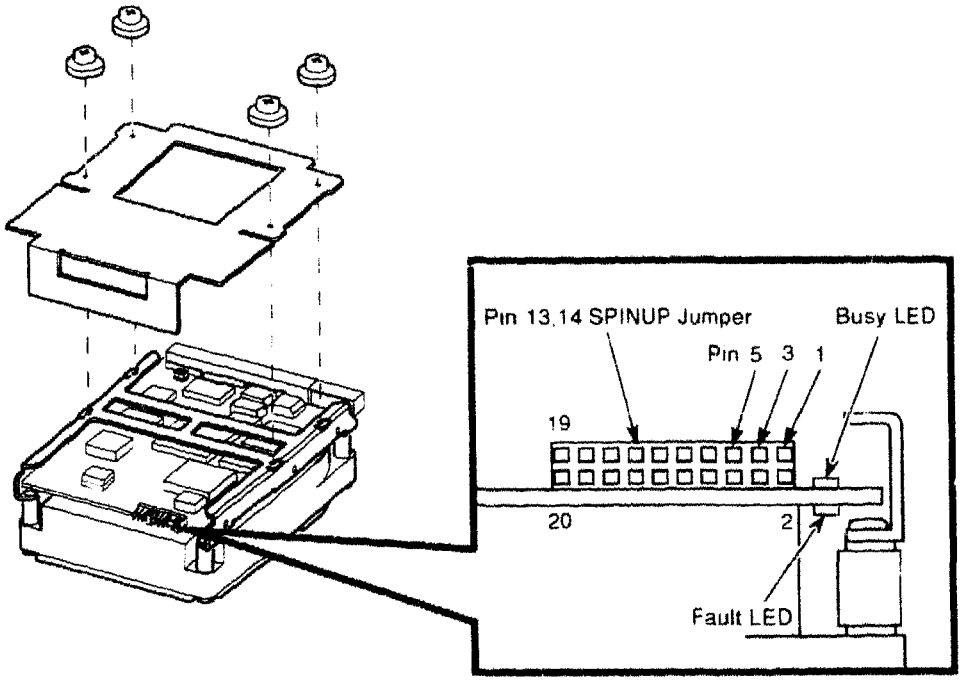
Setting the SCSI ID

In a MicroVAX 3100 platform system, each SCSI device must have a unique SCSI ID number. When installing the RZ26/RZ35-EK disk drive option, the SCSI ID must be set to an ID that is not used by any of the other SCSI devices in the system. See Table 2-3 in the *KA45 CPU System Maintenance Manual* or the *KA47 CPU System Maintenance Manual* for more information.

To set the SCSI ID on the RZ26/RZ35-EK disk drive option, follow these steps:

1. Locate the SCSI ID jumper wires on the disk drive. See Figure 1–1.

Figure 1–1 RZ26/RZ35-EK SCSI ID Jumper Wire Locations



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Setting the SCSI ID (continued)

2. Determine the SCSI ID number assigned to the RZ26/RZ35-EK disk drive option.

   NOTE

   When the system is in console mode, enter the SHOW CONFIG command to view the SCSI ID numbers for the existing devices in the system.

3. Position the jumper for the SCSI ID number selected. Table 1–1 shows the SCSI ID number and the corresponding jumper wire combinations.
4. Remove the SPINUP jumper pin 13, 14, if installed.
5. Remove the SCSI terminator resistor packs, if installed. See Figure 1–2.
6. Install both terminator power jumpers.

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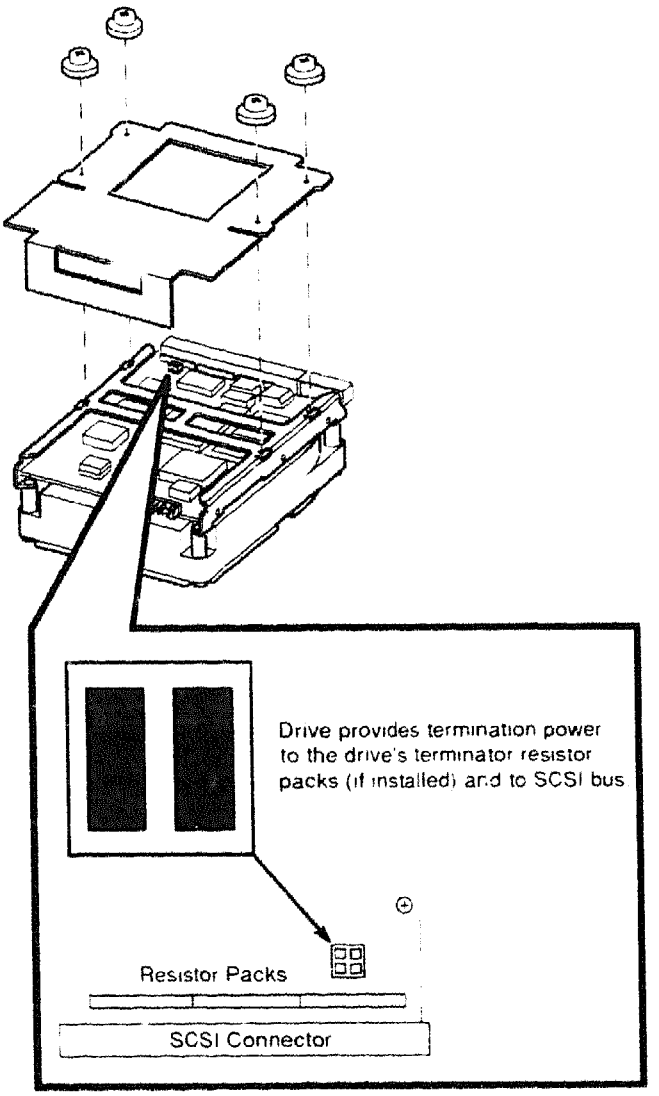
Setting the SCSI ID (continued)

Figure 1–2 Terminator Resistor Packs



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Setting the SCSI ID (continued)

Table 1–1 shows the SCSI ID jumper wire combinations.

Table 1–1 RZ26/RZ35-EK SCSI ID Jumper Wire Combinations

SCSI ID	Pin 5	Pin 3	Pin 1
0	Out	Out	Out
1[1]	Out	Out	In
2[1]	Out	In	Out
3[1]	Out	In	In
4	In	Out	Out
5	In	Out	In
6[2]	In	In	Out
7	In	In	In

[1]Recommended SCSI ID for disk drives.
[2]Reserved for the SCSI controller.

RZ26/RZ35-EK Installation Procedures

Before Installing the RZ26/RZ35-EK Disk Drive Option

Before installing the RZ26/RZ35-EK disk drive option in a MicroVAX 3100 platform system, the enclosure cover must be removed. Before installing the RZ26/RZ35-EK disk drive option on the lower drive-mounting shelf of a MicroVAX 3100 Model 40, 80, or 90 system, the upper drive-mounting shelf must also be removed. See the *BA42-A Enclosure Maintenance Manual* or the *BA42-B Enclosure Maintenance Manual* for more information.

Installing the RZ26/RZ35-EK Disk Drive Option

To install the RZ26/RZ35-EK disk drive option, follow these steps:

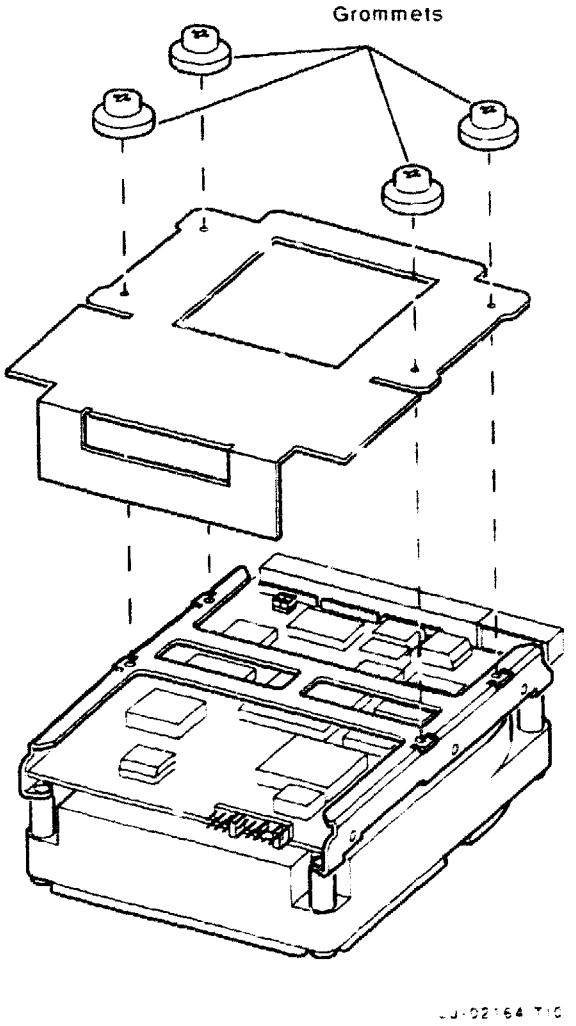
1. Attach the mounting bracket with the four screws (P/N 12-31734-01) as shown in Figure 1–3. If you receive the drive with the mounting hardware already attached, then disregard this step.
2. Identify the drive-mounting shelf position where the RZ26/RZ35-EK option is to be installed. See the *BA42-A Enclosure Maintenance Manual* or the *BA42-B Enclosure Maintenance Manual* for information about mass storage device orientation and combinations.
3. Identify the power cable that provides power to the drive-mounting shelf where the RZ26/RZ35-EK option is to be installed. Connect the power cable to the power connector on the back of the RZ26/RZ35-EK disk drive option.

Continued on next page

Installing the RZ26/RZ35-EK Disk Drive Option (continued)

Figure 1–3 shows the RZ26/RZ35-EK disk drive option with the mounting bracket.

Figure 1–3 RZ26/RZ35-EK Disk Drive Option with Mounting Bracket



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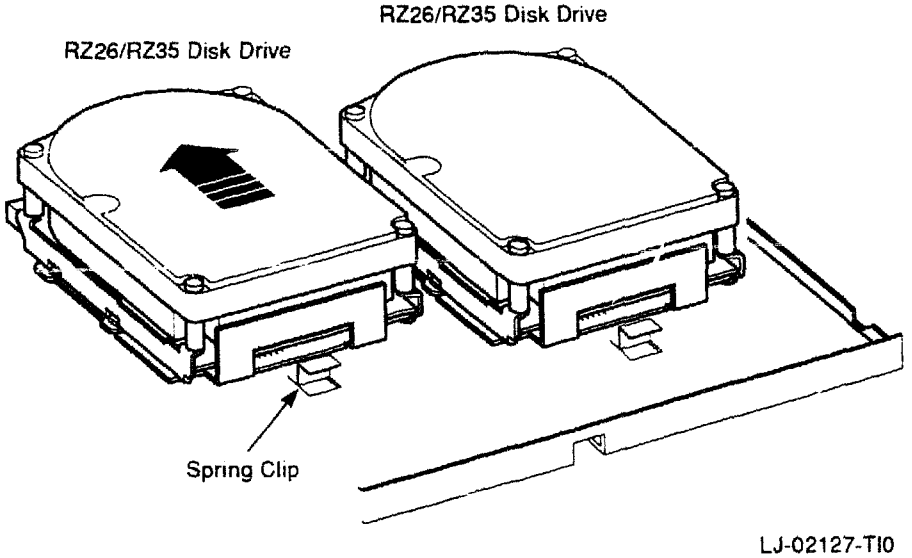
Installing the RZ26/RZ35-EK Disk Drive Option (continued)

4. Identify the SCSI cable connector that has a pull-tab with a number that corresponds to the drive position into which you want to install the RZ26/RZ35-EK disk drive option. Connect the SCSI cable connector to the back of the RZ26/RZ35-EK disk drive option.

5. Identify the spring clip for the drive position where the RZ26/RZ35-EK disk drive option will be installed (Figure 1–4). Remove the lock-out screw if it has not already been removed.

   Figure 1–4 shows how to install the RZ26/RZ35-EK disk drive option.

Figure 1–4 Installing the RZ26/RZ35-EK Disk Drive Option



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Installing the RZ26/RZ35-EK Disk Drive Option (continued)

6. Position the rubber grommets that are attached to the RZ26/RZ35-EK option in the cutouts of the RZ26/RZ35 drive-mounting shelf.
7. Push the RZ26/RZ35-EK disk drive option in until the rubber grommets are secure in the cutouts and the spring clip on the drive-mounting shelf locks the disk drive into position.

After the RZ26/RZ35-EK disk drive option is installed, install the upper drive-mounting shelf (if removed) and the enclosure cover.

Diagnostics

Diagnostic Support

The MicroVAX 3100 platform system provides diagnostic support that tests the operation of an RZ26/RZ35-EK disk drive option in a MicroVAX 3100 platform system.

NOTE

The system cannot be put in Digital Services mode unless there is a loopback connector (P/N 29-24795-00) connected to asynchronous modem control port 2 on the back of the system unit.

Enter the following command at the console prompt so that the system is in the Digital Services environment:

```
>>> SET DIAGENV 2
```

Enter one of the following commands at the console prompt to test the operation of the RZ26/RZ35-EK disk drive option:

```
>>> T 10
```

```
>>> T SCSI
```

If the test fails, the LED display on the back of the system unit displays a code in the range A0 to A5 (hexadecimal). The console terminal then displays a hard error message containing the test number (10) and the test mnemonic (SCSI) as shown in the following example:

```
?? 001 10 SCSI 0050
```

See the *KA45 CPU System Maintenance Manual* or the *KA47 CPU System Maintenance Manual* for more information.

Continued on next page

Power Requirements

Table 1–2 shows the dc power requirements for the RZ26/RZ35-EK disk drive option.

Table 1–2 RZ26/RZ35-EK dc Power Requirements

Mode	Current [1]		Power [2]
	5 V Circuit	12 V Circuit	
Random seek	0.7	0.9	13.8
Power only	0.7	0.6	10.7

[1] Amperes

[2] Watts

Chapter 2
RZ24L-EH Disk Drive

RZ24L-EH Disk Drive Option

Note

NOTE

Contact your Digital Services representative if you want the RZ24L-EH option installed in your system. If you attempt to install this option, then you may invalidate the warranty.

Description

The RZ24L-EH disk drive is a high performance 3.5 inch SCSI device. It has a formatted disk capacity of 245M bytes. The RZ24L disk drive stores data in fixed length blocks on thin-film rigid media disks. The storage medium in the disk drive is fixed (not operator removable).

Ordering Information

In order to install the RZ24L disk drive in a MicroVAX 3100 platform system, the Digital Services employee will need to order the disk drive option, order number RZ24L-EH.

Option Contents

The RZ24L-EH option contains the RZ24L-E disk drive, the mounting bracket (P/N 74-44226-01), and the four screws (P/N 12-31734-01).

RZ24L-EH SCSI ID Information

Setting the SCSI ID

In a MicroVAX 3100 platform system, each SCSI device must have a unique SCSI ID number. When installing the RZ24L-EH disk drive option, the SCSI ID must be set to an ID that is not being used by any of the other SCSI devices in the system. See Table 2-3 in the *KA45 CPU System Maintenance Manual* or the *KA47 CPU System Maintenance Manual* for more information.

To set the SCSI ID on the RZ24L-EH disk drive option, follow these steps:

1. Locate the SCSI ID jumper wires in Figure 2–1 on the disk drive option.
2. Determine the SCSI ID number assigned to the RZ24L-EH disk drive option.

   NOTE

   When the system is in console mode, enter the SHOW CONFIG command to view the SCSI ID numbers for the existing devices in the system.

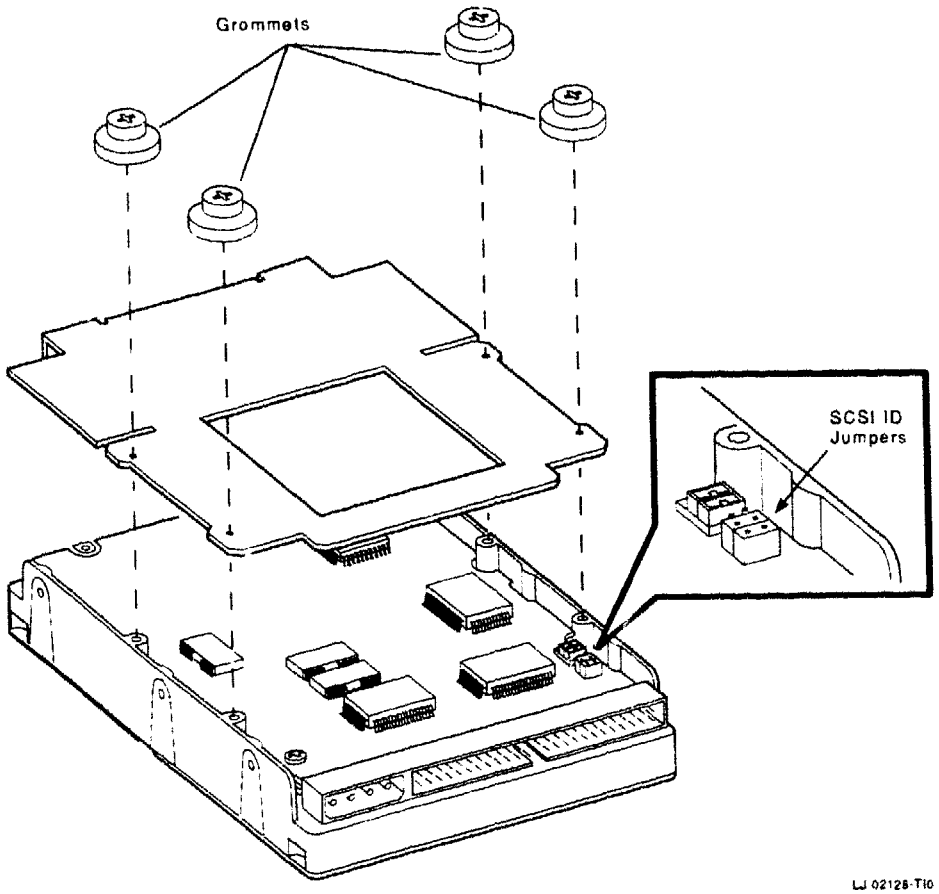
3. Position the jumper wires for the SCSI ID number selected. Table 2–1 shows the SCSI ID number and its corresponding jumper wire combination.

Continued on next page

Setting the SCSI ID (continued)

Figure 2–1 shows the RZ24L-EH disk drive SCSI ID jumper wire locations.

Figure 2–1 RZ24L-EH Disk Drive SCSI ID Jumper Wire Locations



Continued on next page

Setting the SCSI ID (continued)

Table 2–1 shows the RZ24L-EH SCSI ID jumper wire combinations.

Table 2–1 RZ24L-EH SCSI ID Jumper Wire Combinations

SCSI ID	Pin A2	Pin A1	Pin A0
0	Out	Out	Out
1[1]	Out	Out	In
2[1]	Out	In	Out
3[1]	Out	In	In
4	In	Out	Out
5	In	Out	In
6[2]	In	In	Out
7	In	In	In

[1]Recommended SCSI ID for disk drives.
[2]Reserved for the SCSI controller.

RZ24L-EH Installation Procedures

Before Installing the RZ24L-EH Disk Drive Option

Before installing the RZ24L-EH disk drive option in a MicroVAX 3100 platform system, the enclosure cover must be removed. Before installing the RZ24L-EH disk drive option on the lower drive-mounting shelf of a MicroVAX 3100 Model 40, Model 80 or Model 90 system, the upper drive-mounting shelf must also be removed. See the *BA42-A Enclosure Maintenance Manual* or the *BA42-B Enclosure Maintenance Manual* for more information.

Installing the RZ24L-EH Disk Drive Option

To install the RZ24L-EH disk drive option, follow these steps:

1. Attach the mounting bracket with the four screws (P/N 12-31734-01) as shown in Figure 2–1.
2. Identify the drive-mounting shelf position where the RZ24L-EH is to be installed. See the *BA42-A Enclosure Maintenance Manual* or the *BA42-B Enclosure Maintenance Manual* for information about mass storage device orientation and combinations.
3. Identify the power cable that provides power to the drive-mounting shelf where the RZ24L-EH disk drive option is to be installed. Connect the power cable to the power connector on the back of the RZ24L-EH disk drive option.
4. Identify the SCSI cable connector that has a pull-tab with a number that corresponds to the drive position into which you want to install the RZ24L-EH disk drive option. Connect the SCSI cable connector to the back of the RZ24L-EH drive option.

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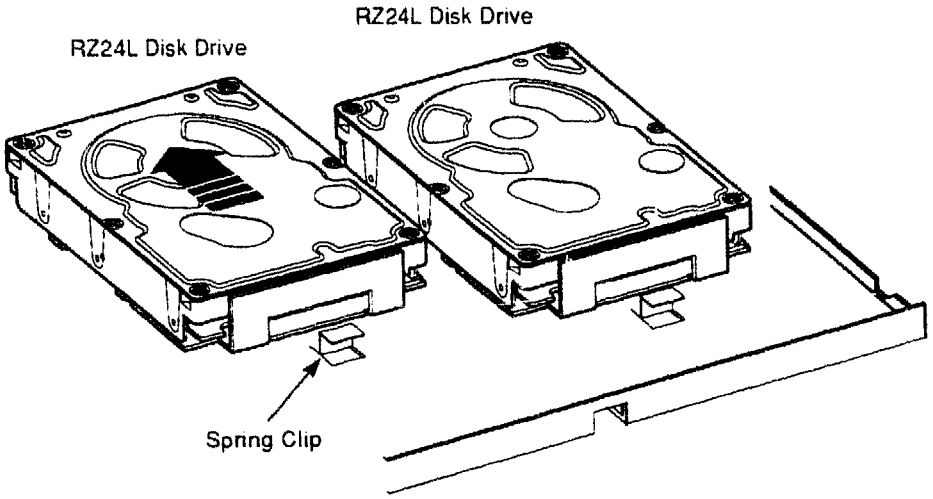
Installing the RZ24L-EH Disk Drive Option (continued)

5. Identify the spring clip for the drive position where the RZ24L-EH disk drive will be installed (Figure 2–2). Remove the lock-out screw if it has not already been removed.

Figure 2–2 Installing the RZ24L-EH Disk Drive Option



6. Position the rubber grommets attached to the RZ24L-EH option in the cutouts of the drive-mounting shelf.
7. Push the RZ24L-EH disk drive in until the rubber grommets are secure in the cutouts and the spring clip on the drive-mounting shelf locks the RZ24L-EH disk drive into position.

After the RZ24L-EH disk drive is installed, install the upper drive-mounting shelf (if removed) and the enclosure cover.

Diagnostics

Diagnostic Support

The MicroVAX 3100 platform system provides diagnostic support that tests the operation of an RZ24L-EH disk drive option in a MicroVAX 3100 platform system.

NOTE

The system cannot be put in Digital Services mode unless there is a loopback connector (P/N 29-24795-00) connected to asynchronous modem control port 2 on the back of the system unit.

Enter the following command at the console prompt so that the system is in the Digital Services environment:

```
>>> SET DIAGENV 2
```

Enter one of the following commands at the console prompt to test the operation of the RZ24L-EH disk drive option:

```
>>> T 10
```

```
>>> T SCSI
```

If the test fails, the LED display on the back of the system unit displays a code in the range A0 to A5 (hexadecimal). The console terminal then displays a hard error message containing the test number (10) and the test mnemonic (SCSI) as shown in the following example:

```
?? 001 10 SCSI 0050
```

See the *KA45 CPU System Maintenance Manual* or the *KA47 CPU System Maintenance Manual* for more information.

Continued on next page

Power Requirements

Table 2–2 shows the dc power requirements for the RZ24L-EH disk drive option.

Table 2–2 RZ24L-EH dc Power Requirements

Mode	Current [1]		Power [2]
	5 V Circuit	12 V Circuit	
Random seek	.30	.43	6.7
Power only	0.18	0.35	5.1

[1]Amperes

[2]Watts

Chapter 3
TLZ06-HG Tape Drive

TLZ06-HG Tape Drive Option

Note

NOTE

Contact your Digital Services representative if you want the TLZ06-HG option installed in your system. If you attempt to install this option, then you may invalidate the warranty.

Description

The TLZ06-HG tape drive is a 4mm DAT DDS SCSI-2 device. It reads data from and writes data to industry-standard tape cartridges. Table 3–1 shows the tape cartridges that are supported by the TLZ06-HG tape drive.

Table 3–1 TLZ06 Tape Cartridges

Cartridge	Capacity (bytes)	Capacity with Compression
TLZ04-CA (60m)	1.3 GB	Up to 2.6 GB
TLZ06-CA (90m)	2.0 GB	Up to 4.0 GB

Continued on next page

TLZ06-HG Tape Drive Option, Continued

Ordering Information

In order to install the TLZ06 tape drive in a MicroVAX 3100 or a VAX 4000 (BA42B enclosure) platform system, the Digital Services employee will need to order the tape drive option, order number TLZ06-HG.

Option Contents

The TLZ06-HG tape drive option contains the following hardware:

- TLZ06-HG tape drive and mounting hardware
- Mounting bracket (P/N 74-42449-01)
- Four screws (P/N 90-10961-05)
- Bezel insert (for Model 30 systems only, P/N 74-37501-01)
- Documentation

TLZ06-HG SCSI ID Information

Setting the SCSI ID

In the MicroVAX 3100 and VAX 4000 (BA42B enclosure) platform systems, each SCSI device must have a unique SCSI ID number. When installing the TLZ06-HG tape drive option, the SCSI ID must be set to an ID that is not being used by any of the other SCSI devices in the system. See Table 2-3 in the *KA45 CPU System Maintenance Manual*, the *KA47 CPU System Maintenance Manual*, the *KA52 CPU System Maintenance Manual*, or the *BA42-B Enclosure Maintenance Manual* for more information.

To set the SCSI ID on the TLZ06-HG tape drive option, follow these steps:

1. Locate the SCSI ID jumper wires on the TLZ06-HG disk drive option. See Figure 3–1.
2. Determine the SCSI ID number assigned to the TLZ06-HG tape drive option.

NOTE

When the system is in console mode, enter the SHOW CONFIG command to view the SCSI ID numbers for the existing devices in the system.

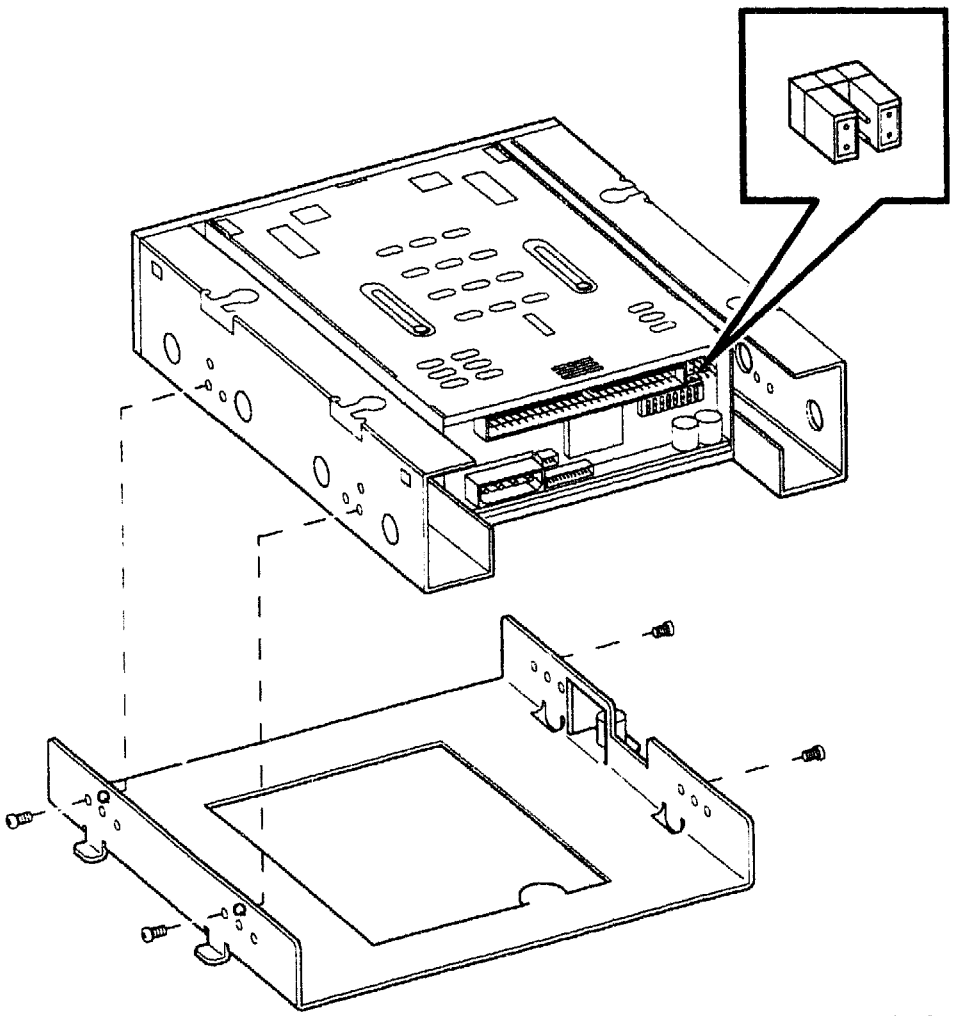
Continued on next page

TLZ06-HG SCSI ID Information, Continued

Setting the SCSI ID (continued)

Figure 3–1 shows the TLZ06-HG tape drive option SCSI ID jumper wire locations.

Figure 3–1 TLZ06-HG Tape Drive SCSI ID Jumper Wire Locations



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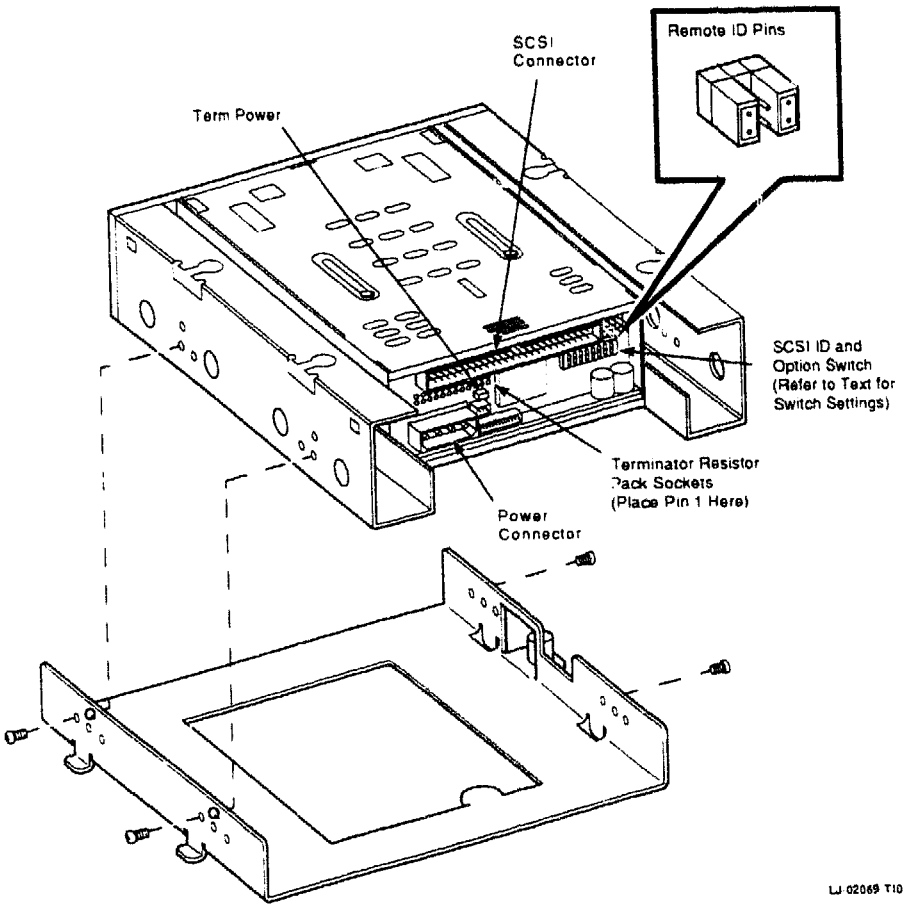
Setting the SCSI ID (continued)

Figure 3–2 shows the remote ID pins for the TLZ06-HG tape drive.

Figure 3–2 Model TLZ06-HG Tape Drive (5.25" Form Factor)



3. Position the jumper wires for the SCSI ID number selected. Table 3–2 shows the SCSI ID number and the corresponding jumper wire combinations.

Continued on next page

Setting the SCSI ID (continued)

Table 3–2 shows the SCSI ID number and the corresponding jumper wire combinations.

Table 3–2 TLZ06-HG SCSI ID Jumper Wire Combinations

SCSI ID	Pin 3	Pin 2	Pin 1
0	Out	Out	Out
1	Out	Out	In
2	Out	In	Out
3	Out	In	In
4	In	Out	Out
5[1]	In	Out	In
6[2]	In	In	Out
7	In	In	In

[1]Recommended SCSI ID for disk drives.
[2]Reserved for the SCSI controller.

The other jumper wire positions are not used.

TLZ06-HG Option Installation Procedures

Before Installing the TLZ06-HG Tape Drive Option

Before installing the TLZ06-HG tape drive option in a MicroVAX 3100 or in a VAX 4000 (BA42B enclosure) platform system, the enclosure cover must be removed. Before installing the TLZ06-HG tape drive option on the lower drive-mounting shelf of a MicroVAX 3100 Model 40, 80, or 90 or a VAX 4000 (BA42B enclosure) platform system, the upper drive-mounting shelf must also be removed. See the *BA42-B Enclosure Maintenance Manual* for more information.

The TLZ06-HG tape drive option can be installed in the following:

- A MicroVAX 3100 Model 30 system (right-hand position only)
- The right-hand position in a MicroVAX 3100 Model 40, 80, or 90 or a VAX 4000 (BA42B enclosure) system
- The left-hand position in a MicroVAX 3100 Model 40, 80, or 90 or a VAX 4000 (BA42B enclosure) system

Preparing Model 30 for Installation (Right-hand)

To prepare the MicroVAX 3100 Model 30 system for the installation of a TLZ06-HG tape drive option in the right-hand drive position, follow these steps:

1. From inside the enclosure, push the blank bezel insert out of the front bezel of the enclosure.
2. Remove the blank bezel insert from the enclosure.

Preparing Models 40, 80, 90 or VAX 4000 for Installation (Right-hand)

To prepare a MicroVAX 3100 Model 40, 80, or 90 or a VAX 4000 (BA42B enclosure) system for the installation of a TLZ06-HG tape drive option in the right-hand drive position, follow these steps:

1. Push the blank bezel insert that covers the right-hand drive-mounting position on the lower drive-mounting shelf, out of the front bezel of the enclosure.
2. Remove the blank bezel insert from the enclosure.

Continued on next page

Preparing Models 40, 80, 90 or VAX 4000 for Installation (Left-hand)

To prepare a MicroVAX 3100 Model 40, 80, or 90 or a VAX 4000 (BA42B enclosure) system for the installation of a TLZ06-HG tape drive option in the left-hand drive position, follow these steps:

1. From inside the enclosure, push the blank bezel insert that covers the left-hand drive-mounting position on the lower drive-mounting shelf, out of the front bezel of the enclosure.
2. Remove the blank bezel insert from the enclosure.
3. Remove the four screws that secure the mounting bracket to the TLZ06-HG tape drive option.
4. Turn the TLZ06-HG tape drive option to a 180° angle.
5. Position the TLZ06-HG tape drive option on the mounting bracket. Align the holes labeled *Q* on the bracket with the screw holes on the TLZ06-HG tape drive option.

Installing the TLZ06-HG Tape Drive Option

NOTE

The following procedures describe how to install a TLZ06-HG option in the right-hand removable media position of a MicroVAX 3100 Model 40, 80, or 90 or a VAX 4000 (BA42B enclosure) platform system. The procedure for installing a TLZ06-HG option in the right-hand removable media position of a MicroVAX 3100 Model 30 system or in the left-hand removable media position of a MicroVAX 3100 Model 40, 80, or 90 or a VAX 4000 (BA42B enclosure) system is similar.

To install the TLZ06-HG tape drive option, follow these steps:

1. Attach the mounting hardware with the four screws as shown in Figure 3–1.
2. Install lock-out screws to hold down any disk drive clips securely in the drive position on the drive-mounting shelf.

Continued on next page

Installing the TLZ06-HG Tape Drive Option (continued)

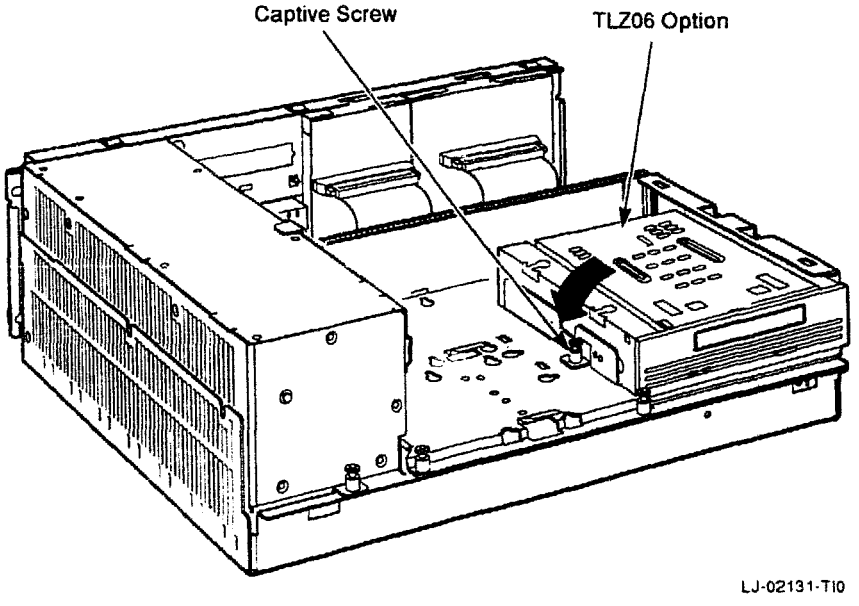
3. Identify the power cable that supplies power to the drive-mounting shelf where the TLZ06-HG disk drive option will be installed. Connect this power cable to the power connector on the back of the TLZ06-HG disk drive option. See Figure 3–2.
4. Identify the SCSI cable connector that has a pull-tab with a number that corresponds to the drive position into which the TLZ06-HG tape drive option will be installed. Connect this connector to the back of the TLZ06-HG tape drive option.
5. Align the tabs on the TLZ06-HG tape drive mounting bracket with the cutouts in the drive-mounting shelf. Tilt the drive to locate the tabs in the drive-mounting shelf cutouts.

Continued on next page

Installing the TLZ06-HG Tape Drive Option (continued)

6. Press the TLZ06-HG tape drive and tighten the captive screw on the mounting bracket to secure the TLZ06-HG tape drive in position. See Figure 3–3.

Figure 3–3 Installing the TLZ06-HG Tape Drive



After installing the TLZ06-HG tape drive, install the upper drive-mounting shelf (if removed) and the enclosure cover.

Diagnostics

Diagnostic Support

The MicroVAX 3100 and the VAX 4000 (BA42B enclosure) platform systems provide diagnostic support that tests the operation of the TLZ06-HG tape drive in the MicroVAX 3100 and the VAX 4000 (BA42B Enclosure) platform systems.

NOTE

The system cannot be put in Digital Services mode unless there is a loopback connector (P/N 29-24795-00) connected to asynchronous modem control port 2 on the back of the system unit.

Enter the following command at the console prompt so that the system is in the Digital Services environment:

```
>>> SET DIAGENV 2
```

Enter one of the following commands at the console prompt to test the operation of the TLZ06-HG tape drive option:

```
>>> T 10
```

```
>>> T SCSI
```

When the system is in the Digital Services environment, a test tape must be installed in the TLZ06-HG tape drive option.

If the test fails, then the LED display on the back of the system unit displays a code in the range A0 to A5 (hexadecimal), and the console terminal displays a hard error message containing the test number (10) and the test mnemonic (SCSI) as shown in the following example:

```
?? 001 10 SCSI 0050
```

See the *KA45 CPU System Maintenance Manual*, the *KA47 CPU System Maintenance Manual*, or the *KA52 CPU System Maintenance Manual* for more information.

Continued on next page

Power Requirements

Table 3–3 shows the dc power requirements for the TLZ06-HG tape drive option.

Table 3–3 TLZ06-HG dc Power Requirements

Current [1]		Power [2]
5 V Circuit	12 V Circuit	
.89	.20	9.0

[1]Amperes
[2]Watts

Appendix A
Related Documentation

Table A–1 provides a list of documentation related to the options described in this manual.

Table A–1 Related Documentation

Documentation	Part Number
RZXX Disk Drive Subsystem Pocket Service Guide	EK-RZXX-PS
MicroVAX 3100 Platform Options	EK-A0519-MG-001
BA42-A Enclosure Maintenance Manual	EK-A0510-MG-001
BA42-B Enclosure Maintenance Manual	EK-A0511-MG-001
KA45 CPU System Maintenance Guide	EK-A0513-MG-001
KA47 CPU System Maintenance Guide	EK-A0514-MG-001
KA52 CPU System Maintenance Manual	EK-473AA-MG-001