MicroVAX 3100 Models 30/40/80

Supplement

Order Number: EK–M3148–SI. A01

March 1995

This manual contains supplemental information to be used in conjunction with existing customer documentation for MicroVAX 3100 Model 30, 40, and 80 systems, and is not intended to be used as a stand-alone document.

Digital Equipment Corporation
Maynard, Massachusetts

March, 1995

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S2836

This document was prepared using VAX DOCUMENT Version 2.1.

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Preface

About This Manual

This manual describes new options and features for MicroVAX 3100 Model 30, 40, and 80 systems as supplemental information to the following manuals:

MicroVAX 3100 Platform BA42A Enclosure Maintenance, EK–A0510–MG
MicroVAX 3100 Platform BA42B Enclosure Maintenance, EK–A0511–MG
Guide to the MicroVAX 3100 Platform Maintenance Information Kit, EK–A0512–MG
MicroVAX 3100 Platform KA45 CPU System Maintenance, EK–A0513–MG
MicroVAX 3100 Platform KA47 CPU System Maintenance, EK–A0514–MG
MicroVAX 3100 Platform Options, EK–A0519–MG

Use this supplement with previous documentation to service the following new Field Replaceable Units (FRUs), that are supported by the MicroVAX 3100 platform:

RRD42 CD–ROM drive
RRD43 CD–ROM drive
RZ24L disk drive
RZ25L disk drive
RZ25M disk drive
RZ26 disk drive
RZ26L disk drive
RZ28 disk drive
TLZ06 tape drive
TLZ07 tape drive
TZK11 tape drive

Detailed information and specifications on each of these options has been provided in *MicroVAX 3100 Platform Options Supplement*, EK–A0519-UD.

Caution

Static electricity can damage integrated circuits. Always use the antistatic wrist strap and antistatic pad found in the static-protective field service kit (29-26246-00) when working with the internal parts of a computer.

Handle options with care. Dropping or bumping an option can damage it. Carry or hold the option by its frame or bracket.

1

MicroVAX 3100 Platform Options

1.1 How to Use this Supplement

Use this manual to supplement information in:

MicroVAX 3100 Platform BA42A Enclosure Maintenance, EK–A0510–MG
MicroVAX 3100 Platform BA42B Enclosure Maintenance, EK–A0511–MG
Guide to the MicroVAX 3100 Platform Maintenance Information Kit, EK–A0512–MG
MicroVAX 3100 Platform KA45 CPU System Maintenance, EK–A0513–MG
MicroVAX 3100 Platform KA47 CPU System Maintenance, EK–A0514–MG
MicroVAX 3100 Platform Options, EK–A0519-MG

1.2 Mass Storage Options

Table 1–1 lists the mass storage devices that the BA42A and BA42B enclosures can contain.

MicroVAX 3100 Platform Options
1.2 Mass Storage Options

Table 1–1 MicroVAX 3100 Platform Mass Storage Devices

Option Name	Description	Size (in.)	Capacity
RRD42[1]	CD–ROM drive	5.25	600 MB CD–ROM
RRD43[1]	CD–ROM drive	5.25	600 MB CD–ROM
RZ23L	Disk drive	3.5	120 MB
RZ24	Disk drive	3.5	200 MB
RZ24L[1]	Disk drive	3.5	245 MB
RZ25	Disk drive	3.5	400 MB
RZ25L[1]	Disk drive	3.5	535 MB
RZ25M[12]	Disk drive	3.5	545 MB
RZ26[1]	Disk drive	3.5	1.05 GB
RZ26L[1]	Disk drive	3.5	1.05 GB
RZ28[1]	Disk drive	3.5	2.10 GB
TLZ06[1]	4mm DAT	5.25	Range of cartridges
TLZ07[1]	4mm DAT	5.25	Range of cartridges
TZ30	Tape drive	5.25	95 MB cartridge
TZK10	Tape drive	5.25	Range of cartridges
TZK11[1]	Tape drive	5.25	Range of cartridges
RX26	Diskette drive	3.5	Range of diskettes

[1]New option—not in previous documentation

[2]MicroVAX 3100 Model 40, 85, 95 systems only.

All options available on the MicroVAX 3100 Platform have been documented in detail in either the original options book or the latest supplement as follows:

- For detailed information on the previous options, see the original options book, *MicroVAX 3100 Platform Options,* EK–A0519-MG.
- For detailed information on the new options, see *MicroVAX 3100 Platform Options Supplement,* EK–A0519-UD.

2

FRU Removal and Replacement

2.1 Enclosure Description

MicroVAX 3100 Model 40 and 80 systems are housed in the BA42B enclosure, which has both a lower and an upper drive-mounting shelf.

The MicroVAX 3100 Model 30 system is in the BA42A enclosure, which has a lower drive-mounting shelf only, identical to the lower drive-mounting shelf in the BA42B enclosure.

2.1.1 Location of Field Replacable Units (FRUs)

New options in the RZ-series can be installed in the BA42A or BA42B enclosures in the same drive-mounting positions as earlier RZ-series drives. The new removable media options can be installed in the same drive-mounting positions as the older removable media options.

RZ-series and removable media drive-mounting positions for the MicroVAX 3100 Model 30 system (in the BA42A enclosure) are shown in *MicroVAX 3100 Platform BA42A Enclosure Maintenance,* EK–A0510–MG.

RZ-series and removeable media drive-mounting positions for MicroVAX 3100 Model 40 and 80 systems (in the BA42B enclosure) are shown in *MicroVAX 3100 Platform BA42B Enclosure Maintenance,* EK–A0511–MG.

2.1.2 Removing the Enclosure Cover

The enclosure cover is removed as shown in *MicroVAX 3100 Platform BA42A Enclosure Maintenance,* EK–A0510–MG for the MicroVAX 3100 Model 30 system (in the BA42A enclosure).

MicroVAX 3100 Platform BA42B Enclosure Maintenance, EK–A0511–MG, shows the removal of the enclosure cover from MicroVAX 3100 Model 40 and 80 systems (in the BA42B enclosure) .

MicroVAX 3100 Model 40 and 80 systems in the BA42B enclosure have an upper drive-mounting shelf which must be removed to reach the lower drive-mounting shelf. See *MicroVAX 3100 Platform BA42B Enclosure Maintenance,* EK–A0511–MG to remove the upper shelf.

3

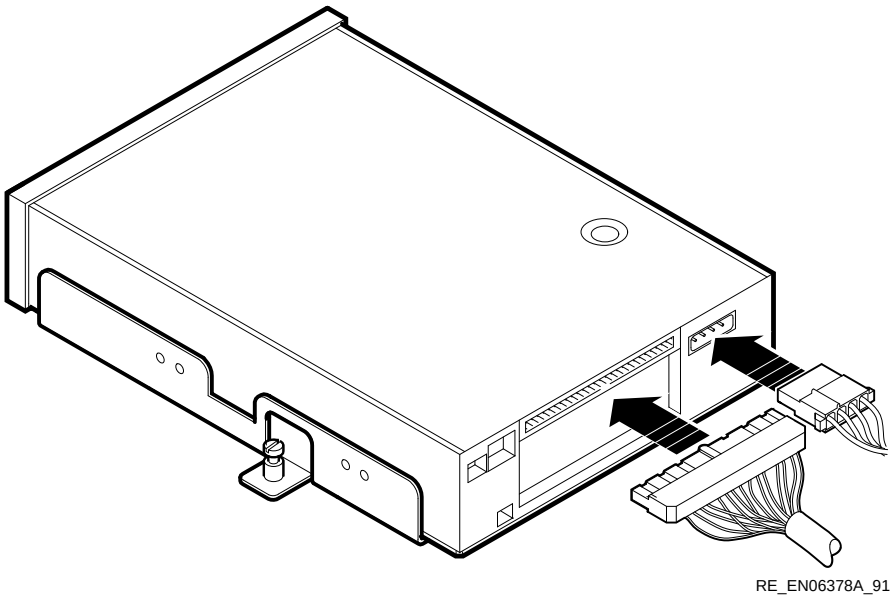
Removing and Replacing FRUs

3.1 Removing and Replacing an RRD42 CD–ROM

Use the following steps to remove an RRD42 CD–ROM drive.

1. Disconnect the power cable from the power connector on the back of the drive (see Figure 3–1).
2. Note the pull-tab number on the SCSI cable connector that corresponds to the storage slot where the drive is installed.
3. Disconnect the SCSI cable from the back of the drive (see Figure 3–1).

Figure 3–1 RRD42 Cables

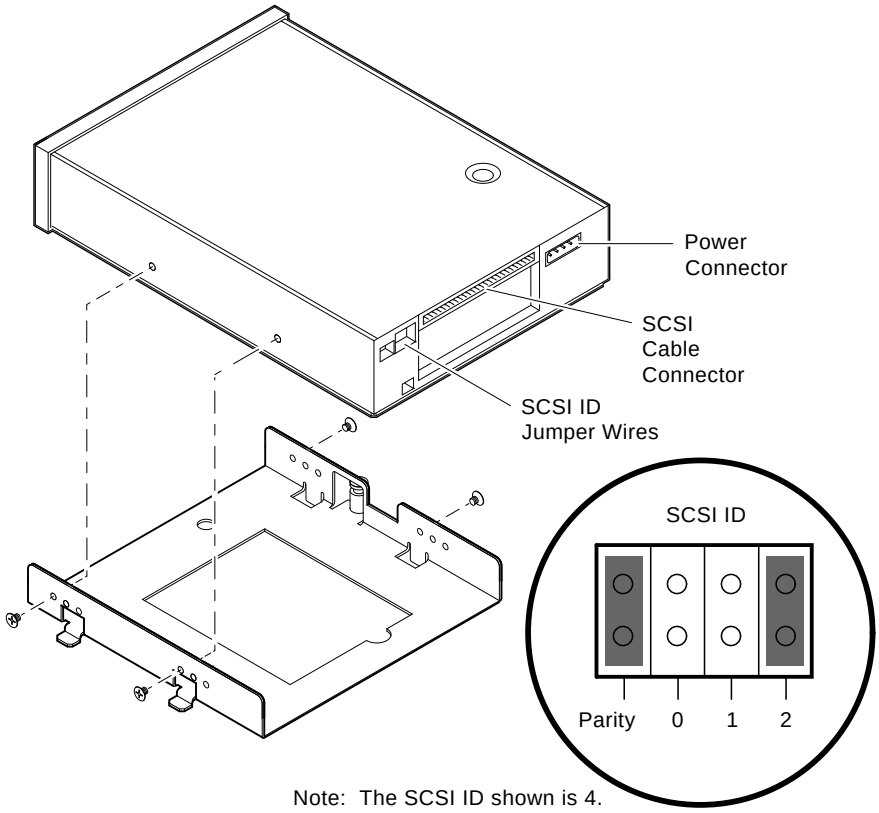


4. Loosen the captive screw on the mounting bracket that secures the drive in place, and remove the drive. Figure 3–3 shows a drive in the left storage slot of the lower drive-mounting shelf.

3.1.1 Setting the SCSI ID Information

Note the position of the three SCSI ID jumpers and the parity jumper on the drive you are removing (see Figure 3–2). Set the SCSI ID and parity jumpers on the new drive to the same positions.

Figure 3–2 RRD42 SCSI ID Jumper Locations and Mounting Bracket



3.1.2 Removing and Replacing the Mounting Bracket

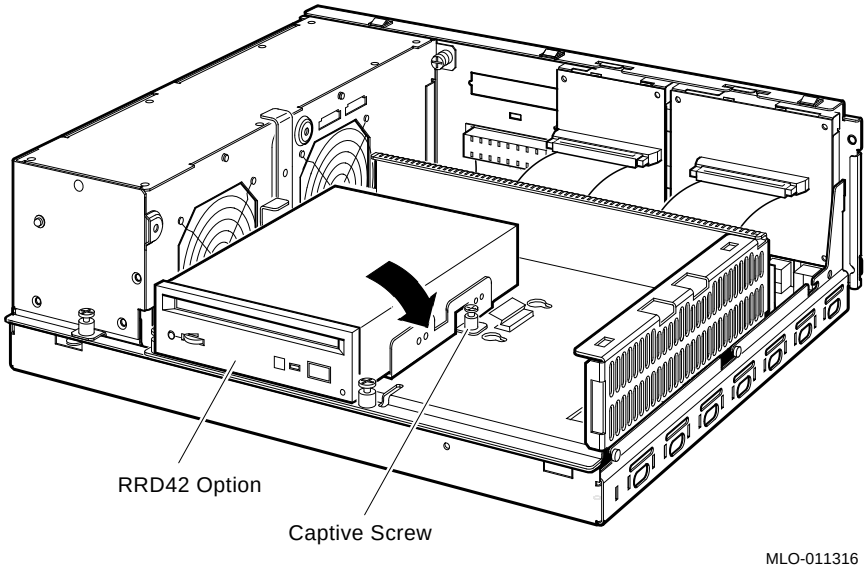
1. Note how the mounting bracket is attached to the drive, in partucular which set of bracket screw holes is used, and which side the captive screw is on (see Figure 3–2). Viewing the front of the drive, the captive screw is on the left-hand side of the drive for mounting in the right-hand drive mounting position, and on the right to mount it in the left-hand position.
2. Remove the mounting bracket from the old drive and attach it to the new drive in the same position.

3.1.3 Installing the Replacement Drive

Use the following steps to install the replacement drive.

1. Connect the power cable to the power connector on the back of the drive (see Figure 3–1).
2. Connect the SCSI cable to the back of the drive (see Figure 3–1).
3. Align the tabs on the mounting bracket with the cutouts in the drive-mounting shelf (see Figure 3–3).
4. Tilt the drive slightly to slide the tabs in the drive-mounting shelf cutouts.
5. Lower the drive into position and tighten the captive screw on the mounting bracket to secure the drive in place.
6. Replace the upper drive-mounting shelf (BA42B only) and the enclosure cover.

Figure 3–3 Installing the RRD42 CD–ROM Drive

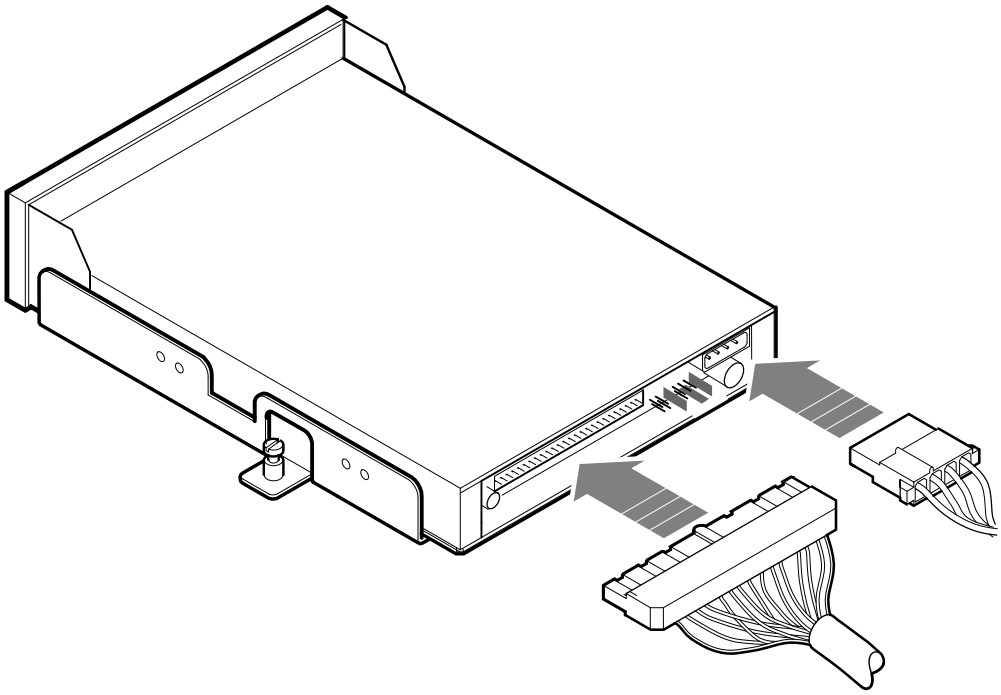


3.2 Removing and replacing an RRD43 CD–ROM

Use the following steps to remove an RRD43 CD–ROM drive.

1. Disconnect the power cable from the power connector on the back of the drive (see Figure 3–4).
2. Note the pull-tab number on the SCSI cable connector that corresponds to the storage slot where the drive is installed.
3. Disconnect the SCSI cable from the back of the drive (see Figure 3–4).

Figure 3–4 RRD43 CD–ROM Cables



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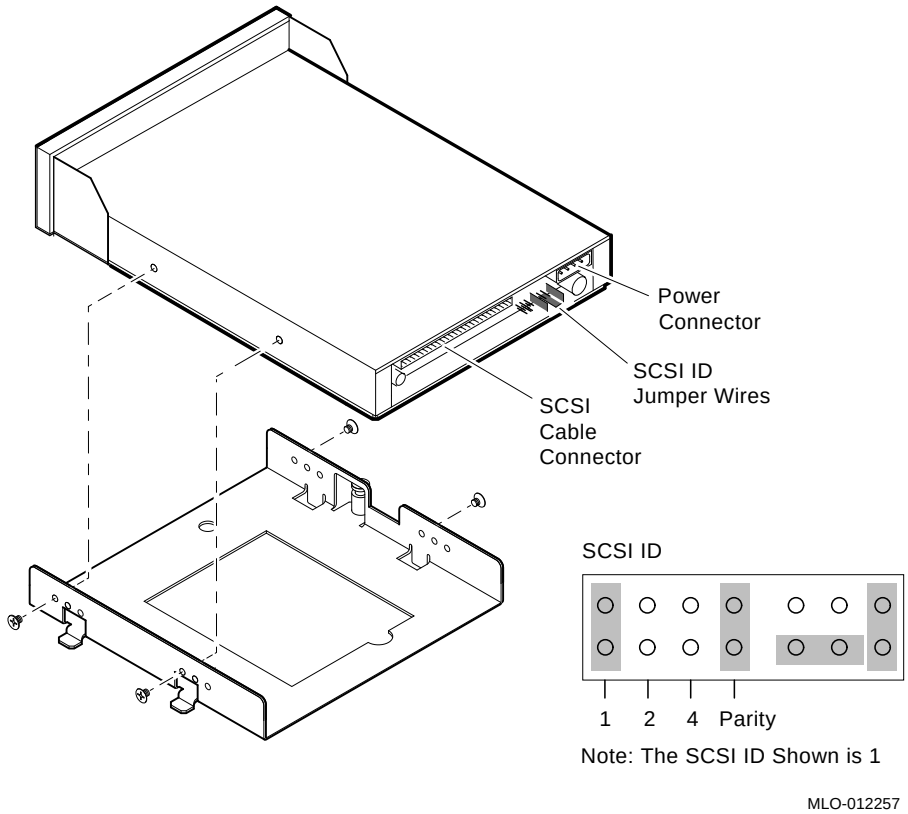
4. Loosen the captive screw on the mounting bracket that secures the drive in place, and remove the drive. Figure 3–6 shows a drive in the left storage slot of the lower drive-mounting shelf.

3.2.1 Setting the SCSI ID Information

Note the position of the three SCSI ID jumpers and the parity jumper on the drive you are removing (see Figure 3–5). Set the SCSI ID and parity jumpers on the new drive to the same positions.

Figure 3–5 RRD43 CD–ROM Drive Mounting Bracket and SCSI ID Jumper Locations



3.2.2 Removing and Replacing the RRD43 Mounting Bracket

1. Note how the mounting bracket is attached to the drive, in particular which mounting bracket screw holes are used, and which side the captive screw is on (see Figure 3–5). Viewing the front of the drive, the captive screw is on the left-hand side of the drive for mounting in the right-hand

drive mounting position, and on the right to mount it in the left-hand position.

2. Remove the mounting bracket from the old drive and attach it to the new drive in the same position.

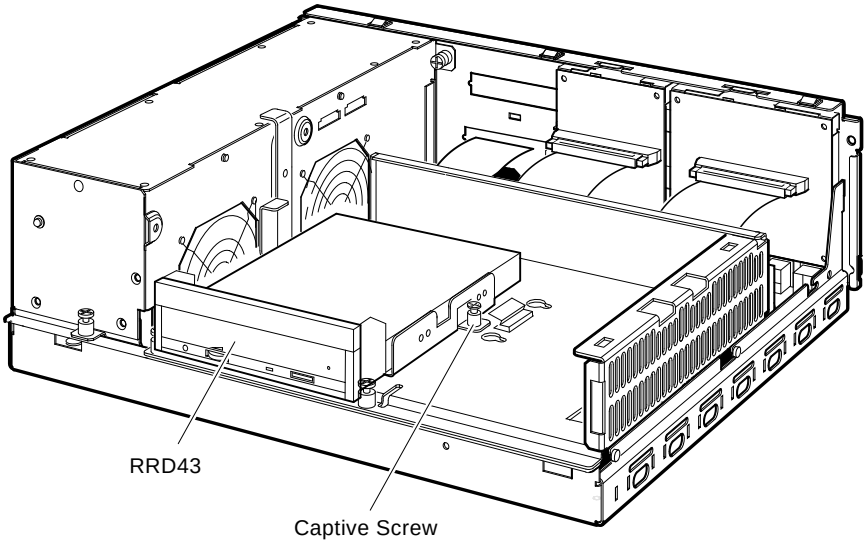
3.2.3 Installing the Replacement Drive

Use the following steps to install the replacement drive.

1. Connect the power cable to the power connector on the back of the drive (see Figure 3–4).
2. Connect the SCSI cable to the back of the drive (see Figure 3–4).
3. Align the tabs on the mounting bracket with the cutouts in the drive-mounting shelf (see Figure 3–6).
4. Tilt the drive slightly to slide the tabs in the drive-mounting shelf cutouts.
5. Lower the drive into position and tighten the captive screw on the mounting bracket to secure the drive in place.
6. Replace the upper drive-mounting shelf (BA42B only) and the enclosure cover.

3.2 Removing and replacing an RRD43 CD–ROM

Figure 3–6 Installing the RRD43 CD–ROM Drive

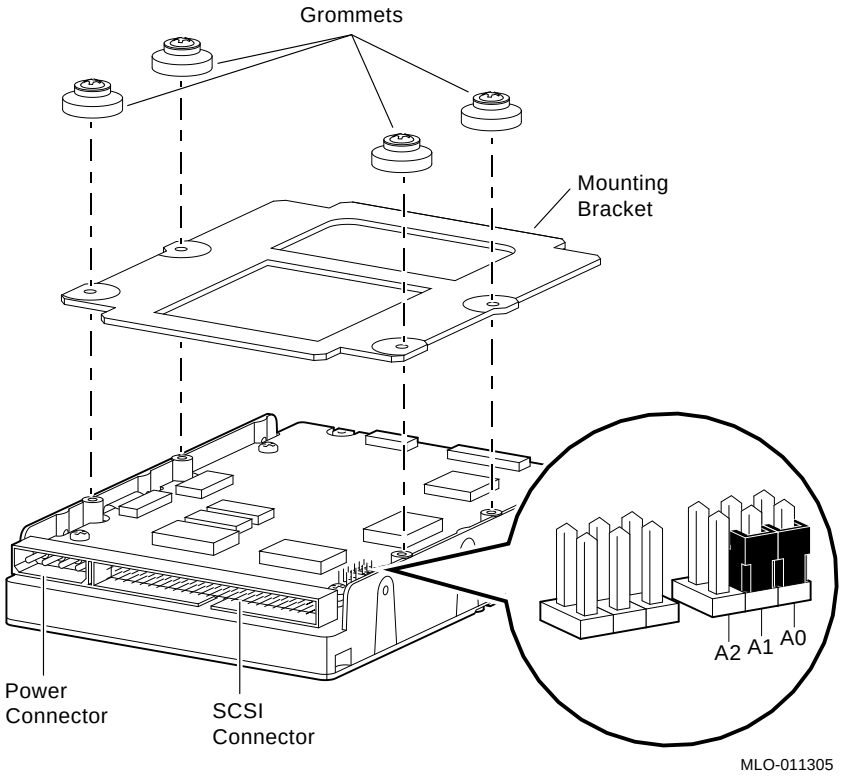


3.3 Removing and Replacing an RZ24L Disk Drive

Use the following steps to remove an RZ24L disk drive.

1. Disconnect the power cable from the power connector on the back of the drive (see Figure 3–7).
2. Note the pull-tab number on the SCSI cable connector that corresponds to the storage slot where the drive is installed.
3. Disconnect the SCSI cable from the back of the drive (see Figure 3–7).

Figure 3–7 RZ24L Disk Drive Connectors, SCSI ID Jumpers, and Mounting Bracket



4. Depress the spring clip that secures the drive in place and remove the drive. Figure 3–8 shows a drive in the left and right storage slots of the lower drive-mounting shelf, and how a drive is attached to the upper shelf of a BA42B enclosure.

3.3.1 Setting the SCSI ID Information

Note the position of the three SCSI ID jumpers on the drive you are removing (see Figure 3–7). Set the SCSI ID jumpers on the new drive to the same position.

3.3.2 Removing and Replacing the Mounting Bracket

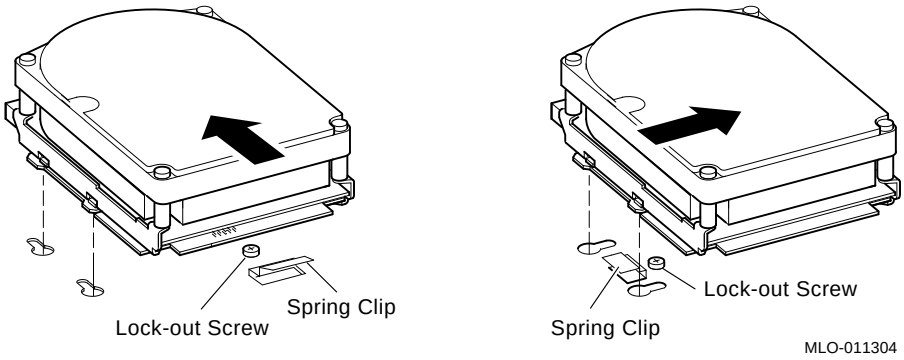
1. Note how the mounting bracket is attached to the drive (see Figure 3–7).
2. Remove the mounting bracket from the old drive and attach it to the new drive in the same position.

3.3.3 Installing the Replacemnet Drive

Use the following steps to install the replacement drive.

1. Connect the power cable to the power connector on the back of the drive (see Figure 3–7).
2. Connect the SCSI cable to the back of the drive (see Figure 3–7).
3. Position the grommets attached to the mounting bracket in the cutouts of the drive-mounting shelf (see Figure 3–8).
4. Slide the drive away from the spring clip until the grommets are secure in the cutouts and the spring clip locks the disk drive into position.
5. Replace the upper drive-mounting shelf (if removed) and the enclosure cover.

Figure 3–8 Installing an RZ24L Disk Drive



Note

The left-hand illustration in Figure 3–8 shows how a sample drive is secured in any position on the top drive-mounting shelf of a MicroVAX 3100 Model 40 or 80 system (BA42B enclosure only).

The MicroVAX 3100 Model 30 system (BA42A enclosure) and MicroVAX 3100 model 40 and 80 systems have the same lower shelf. The left-hand illustration in Figure 3–8 shows how a sample drive is secured in the left-hand storage slot on the lower shelf. The right-hand illustration shows how the drive is mounted in the right-hand position on the lower shelf only.

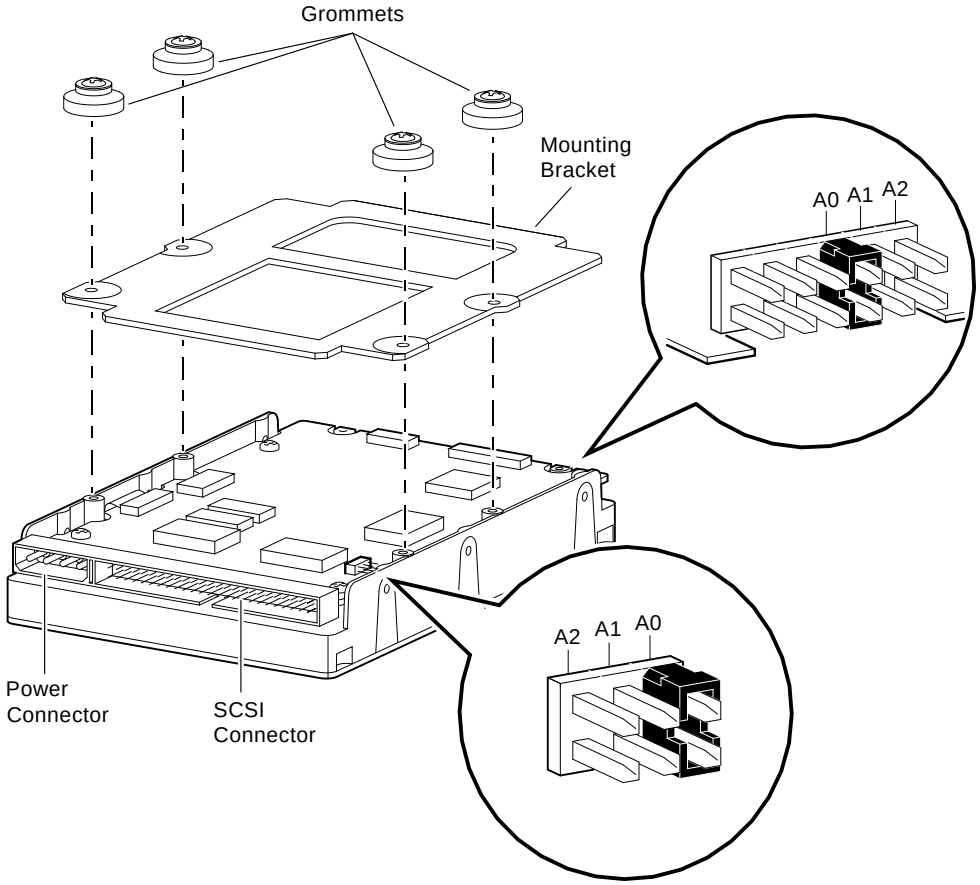
The lock-out screw is only used on empty slots, and will not be present where you have removed a drive.

3.4 Removing and Replacing an RZ25L Disk Drive

Use the following steps to remove an RZ25L disk drive.

1. Disconnect the power cable from the power connector on the back of the drive (see Figure 3–9).
2. Note the pull-tab number on the SCSI cable connector that corresponds to the storage slot where the drive is installed.
3. Disconnect the SCSI cable from the back of the drive (see Figure 3–9).

Figure 3–9 RZ25L Disk Drive Connectors, SCSI ID Jumpers, and Mounting Bracket



4. Depress the spring clip that secures the drive in place and remove the drive. Figure 3–10 shows a drive in the left and right storage slots of the lower drive-mounting shelf, and how a drive is attached to the upper shelf of a BA42B enclosure.

3.4.1 Setting the SCSI ID Information

The RZ25L disk drive has two sets of jumpers for setting the SCSI ID. Only one set can be used. Note the position of both sets of SCSI ID jumpers on the drive you are removing (see Figure 3–9). Set the SCSI ID jumpers on the new drive to the same positions.

3.4.2 Removing and Replacing the Mounting Bracket

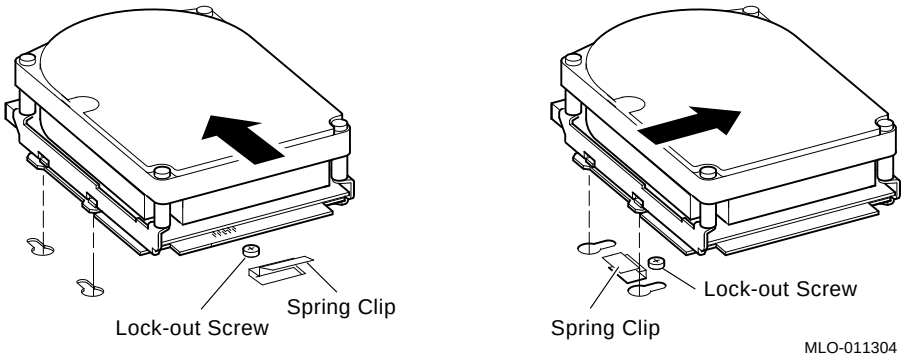
1. Note how the mounting bracket is attached to the drive you are removing (see Figure 3–9).
2. Remove the mounting bracket from the old drive and attach it to the new drive in the same position.

3.4.3 Installing the Replacement Drive

Use the following steps to install the replacement drive.

1. Connect the power cable to the power connector on the back of the drive (see Figure 3–9).
2. Connect the SCSI cable to the back of the drive (see Figure 3–9).
3. Position the grommets attached to the mounting bracket in the cutouts of the drive-mounting shelf (see Figure 3–10).
4. Slide the drive away from the spring clip until the grommets are secure in the cutouts and the spring clip locks the disk drive into position.
5. Replace the upper drive-mounting shelf (if removed), and the enclosure cover.

Figure 3–10 Installing an RZ25L-EK Disk Drive



Note

The left-hand illustration in Figure 3–10 shows how a sample drive is secured in any position on the top drive-mounting shelf of a MicroVAX 3100 Model 40 or 80 system (BA42B enclosure only).

The MicroVAX 3100 Model 30 system (BA42A enclosure) and MicroVAX 3100 model 40 and 80 systems have the same lower shelf. The left-hand illustration in Figure 3–10 shows how a sample drive is secured in the left-hand storage slot on the lower shelf. The right-hand illustration shows how the drive is mounted in the right-hand position on the lower shelf only.

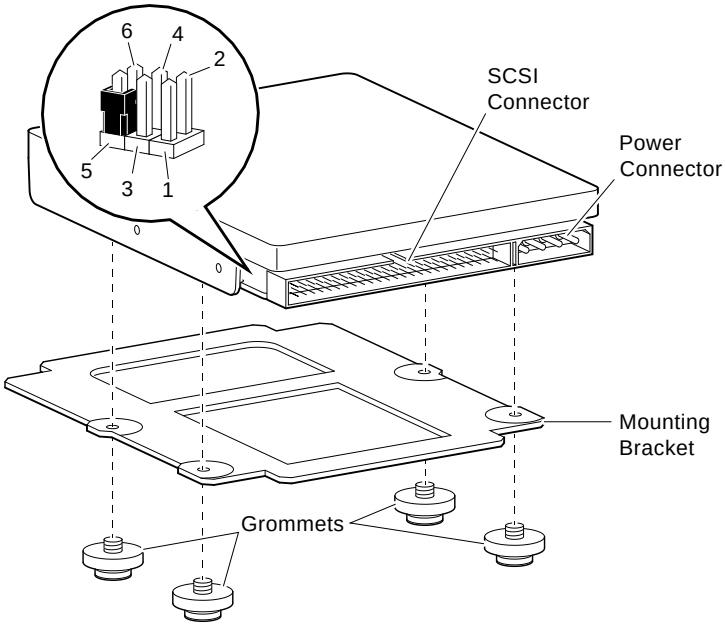
The lock-out screw is only used on empty slots, and will not be present where you have removed a drive.

3.5 Removing and Replacing an RZ25M Disk Drive

Use the following steps to remove an RZ25M disk drive.

1. Disconnect the power cable from the power connector on the back of the drive (see Figure 3–11).
2. Note the pull-tab number on the SCSI cable connector that corresponds to the storage slot where the drive is installed.
3. Disconnect the SCSI cable from the back of the drive (see Figure 3–11).

Figure 3–11 RZ25M Disk Drive Connectors, SCSI ID Jumpers, and Mounting Bracket



4. Depress the spring clip that secures the drive in place and remove the drive. Figure 3–12 shows a drive in the left and right storage slots of the lower drive-mounting shelf, and how a drive is attached to the upper shelf of a BA42B enclosure.

3.5.1 Setting the SCSI ID Information

Note the position of the three SCSI ID jumpers on the drive you are removing (see Figure 3–11). Set the jumpers on the new drive to the same position.

3.5.2 Removing and Replacing the Mounting Bracket

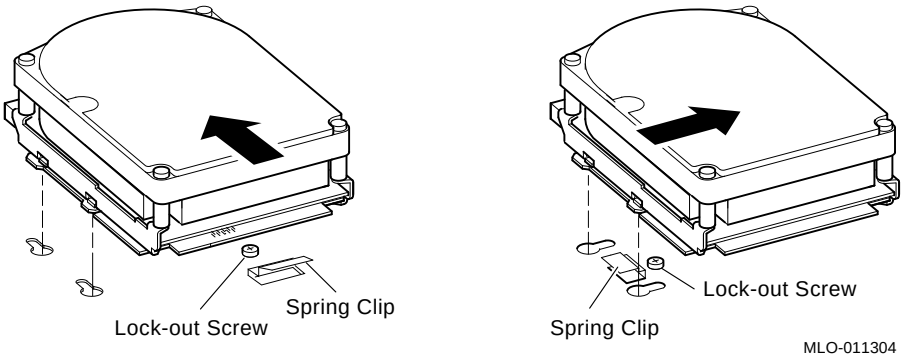
1. Note how the mounting bracket is attached to the drive you are removing (see Figure 3–11).
2. Remove the mounting bracket from the old drive and attach it to the new drive in the same position.

3.5.3 Installing the Replacement Drive

Use the following steps to install the replacement drive.

1. Connect the power cable to the power connector on the back of the drive (see Figure 3–11).
2. Connect the SCSI cable to the back of the drive (see Figure 3–11).
3. Position the grommets attached to the mounting bracket in the cutouts of the drive-mounting shelf (see Figure 3–12).
4. Slide the drive away from the spring clip until the grommets are secure in the cutouts and the spring clip locks the disk drive into position.
5. Replace the upper drive-mounting shelf (if removed) and the enclosure cover.

Figure 3–12 Installing an RZ25M Disk Drive



Note

The RZ25M disk drive is only available for the MicroVAX 3100 Model 40 system (BA42A enclosure). The left-hand illustration in Figure 3–12 shows how a sample drive is secured on the upper drive-mounting shelf or the left-hand storage slot on the lower shelf. The right-hand illustration shows how the drive is mounted in the right-hand position on the lower shelf only.

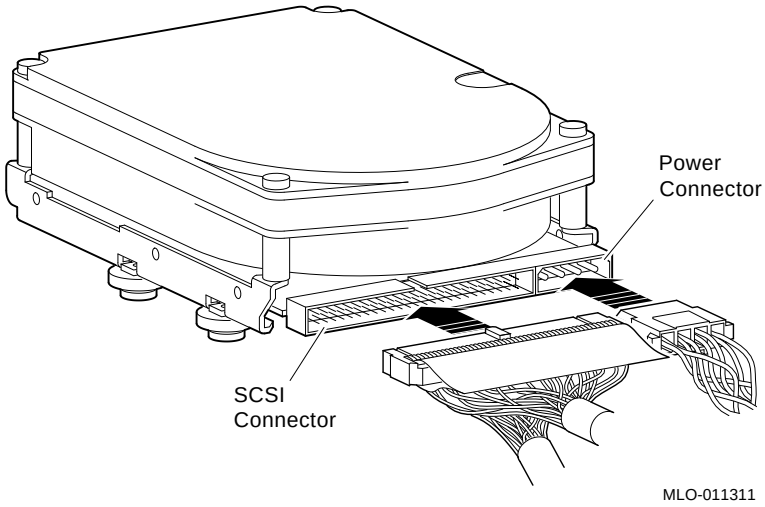
The lock-out screw is only used on empty slots, and will not be present where you have removed a drive.

3.6 Removing an RZ26, RZ26L, or RZ28 Disk Drive

Use the following steps to remove an RZ26, RZ26L, or RZ28 disk drive.

1. Disconnect the power cable from the power connector on the back of the drive (see Figure 3–13).
2. Note the pull-tab number on the SCSI cable connector that corresponds to the storage slot where the drive is installed.
3. Disconnect the SCSI cable from the back of the drive (see Figure 3–13).

Figure 3–13 Disconnecting the Cables from a Sample RZ26, RZ26L, or RZ28

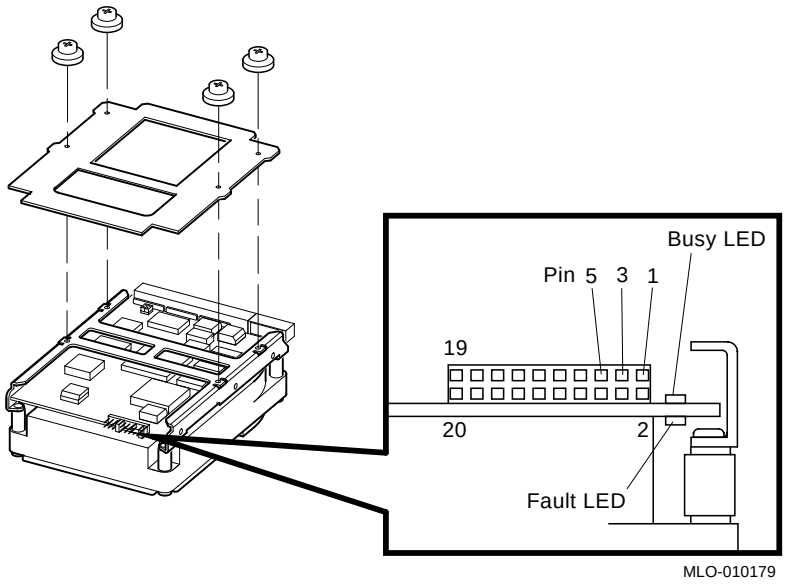


4. Depress the spring clip that secures the drive in place and remove the drive. Figure 3–16 shows a drive in the left and right storage slots of the lower drive-mounting shelf, and how a drive is attached to the upper shelf of a BA42B enclosure.

3.6.1 Setting the SCSI ID Information

Note the position of the three SCSI ID jumpers on the drive you are removing (see Figure 3–14). Set the SCSI ID jumpers on the new drive to the same position.

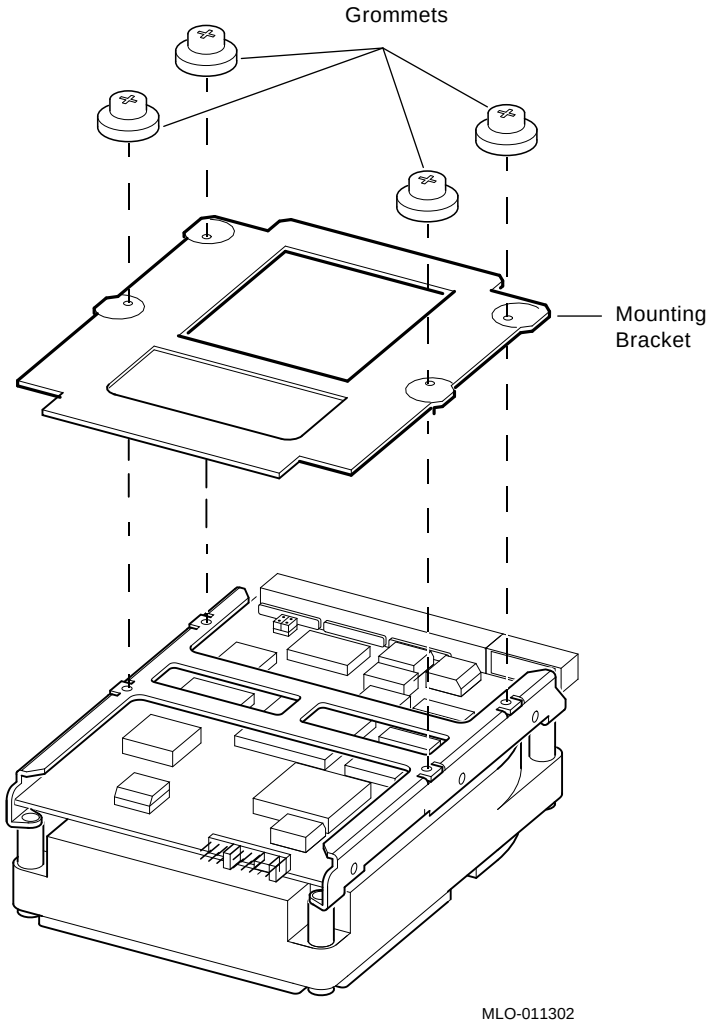
Figure 3–14 Sample RZ26, RZ26L, RZ28 Disk Drive SCSI ID Jumper Locations



3.6.2 Removing and Replacing the Mounting Bracket

1. Note how the mounting bracket is attached to the drive you are removing (see Figure 3–15).
2. Remove the mounting bracket from the old drive and attach it to the new drive in the same position.

Figure 3–15 Sample RZ26, RZ26L, RZ28 Disk Drive Mounting Bracket (Bottom View)



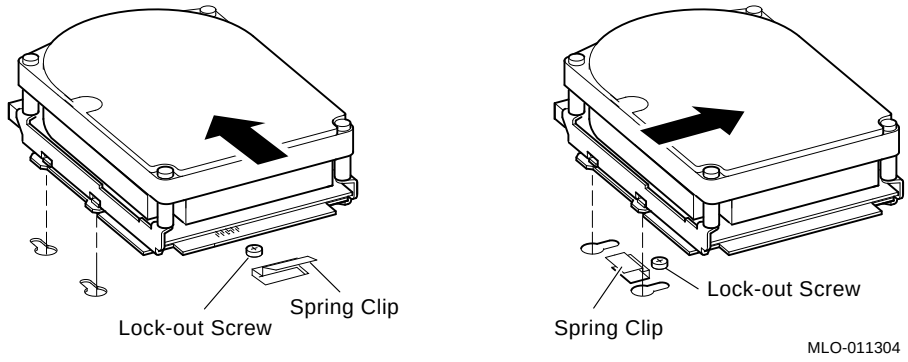
3.6.3 Installing the Replacement Drive

Use the following steps to install the replacement drive.

1. Connect the power cable to the power connector on the back of the drive (see Figure 3–13).
2. Connect the SCSI cable to the back of the drive (see Figure 3–13).

3. Position the grommets attached to the mounting bracket in the cutouts of the drive-mounting shelf (see Figure 3–16).
4. Slide the drive away from the spring clip until the grommets are secure in the cutouts and the spring clip locks the disk drive into position.
5. Replace the upper drive-mounting shelf (if removed), and the enclosure cover.

Figure 3–16 Installing a Sample RZ26, RZ26L, or RZ28 Disk Drive



Note

The left-hand illustration in Figure 3–16 shows how a sample drive is secured in any position on the top drive-mounting shelf of a MicroVAX 3100 Model 40 or 80 system (BA42B enclosure only).

The MicroVAX 3100 Model 30 system (BA42A enclosure) and MicroVAX 3100 model 40 and 80 systems have the same lower shelf. The left-hand illustration in Figure 3–16 shows how a sample drive is secured in the left-hand storage slot on the lower shelf. The right-hand illustration shows how the drive is mounted in the right-hand position on the lower shelf only.

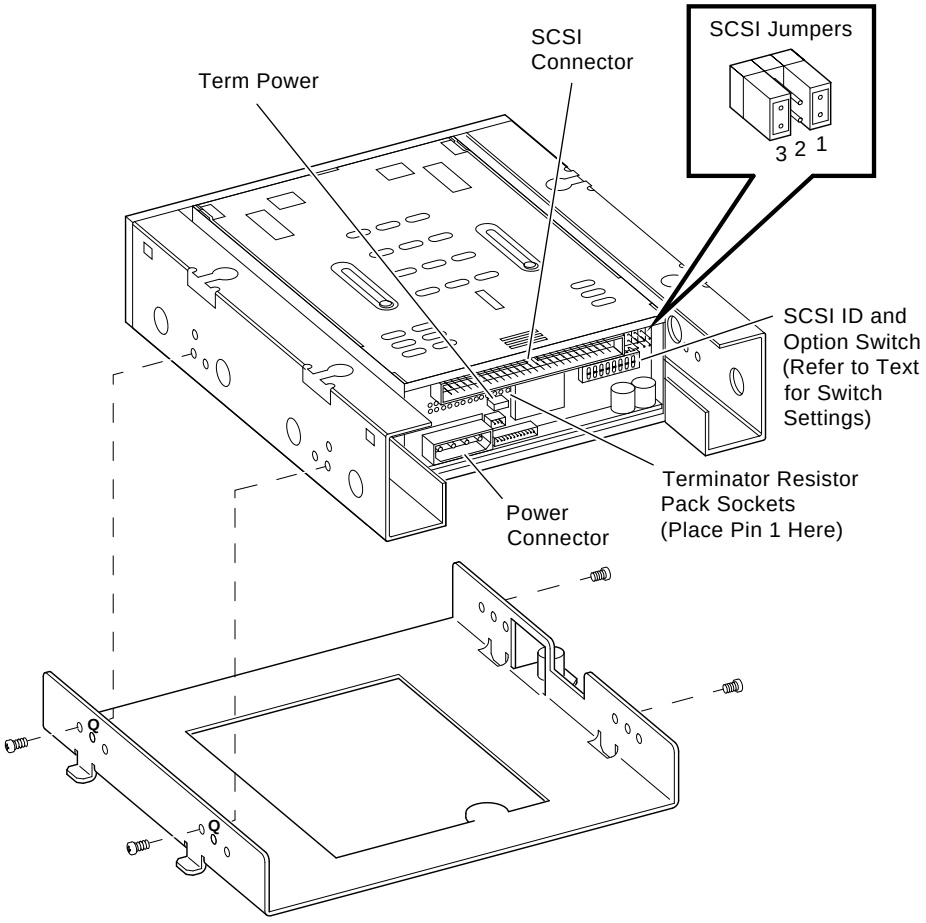
The lock-out screw is only used on empty slots, and will not be present where you have removed a drive.

3.7 Removing and Replacing a TLZ06 or TLZ07 Tape Drive

Use the following steps to remove a TLZ06 or TLZ07 disk drive.

1. Disconnect the power cable from the power connector on the back of the drive (see Figure 3–17).
2. Note the pull-tab number on the SCSI cable connector that corresponds to the storage slot where the drive is installed.
3. Disconnect the SCSI cable from the back of the drive (see Figure 3–17).

Figure 3–17 TLZ06/07 Tape Drive Connectors, SCSI ID Jumpers and Switches, and Mounting Bracket



4. Loosen the captive screw on the mounting bracket that secures the drive in place (see Figure 3–17).

3.7.1 Setting the SCSI ID Information

Note

The SCSI ID of TLZ06/TLZ07 tape drives can be set either by jumpers or switches, but only one method or the other can be used. The jumper pins are logically ORed with the SCSI ID switches; setting a switch is equivalent to installing a jumper.

The default switch settings for the SCSI ID and option switches on the TLZ06/07 tape drive are all off except for switches S4, S5, S6, and S8, which are on.

Note the position of the three SCSI ID jumpers or switches on the drive you are removing (see Figure 3–17). Set the SCSI ID jumpers or switches on the new drive to the same position.

3.7.2 Removing and Replacing the Mounting Bracket

1. Note how the mounting bracket is attached to the drive, in particular which mounting bracket screw holes are used, and which side the captive screw is on (see Figure 3–17). Viewing the front of the drive, the captive screw is on the left-hand side of the drive for mounting in the right-hand drive mounting position, and on the right to mount it in the left-hand position.
2. Remove the mounting bracket from the old drive and attach it to the new drive in the same position.

3.7.3 Installing the Replacement Drive

Use the following steps to install the replacement drive.

1. Connect the power cable to the power connector on the back of the drive (see Figure 3–17).
2. Connect the SCSI cable to the back of the drive (see Figure 3–17).
3. Align the tabs on the mounting bracket with the cutouts in the drive-mounting shelf. See Figure 3–6 for an example of how a similar storage device and mounting bracket are installed.

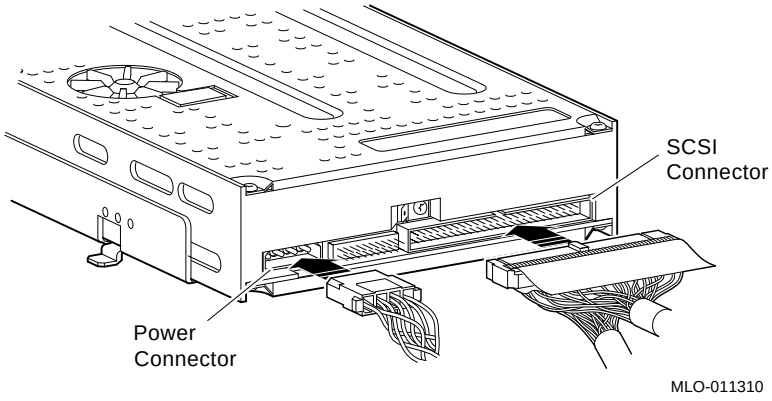
4. Tilt the drive slightly to slide the tabs in the drive-mounting shelf cutouts.
5. Lower the drive into position and tighten the captive screw on the mounting bracket to secure the drive in place.
6. Replace the upper drive-mounting shelf (BAB42 only) and the enclosure cover.

3.8 Removing and Replacing a TZK10 or TZK11 Tape Drive

Use the following steps to remove a TZK10 or TZK11 tape drive.

1. Disconnect the power cable from the power connector on the back of the drive (see Figure 3–18).
2. Note the pull-tab number on the SCSI cable connector that corresponds to the storage slot where the drive is installed.
3. Disconnect the SCSI cable from the back of the drive (see Figure 3–18).

Figure 3–18 TZK10/11 Cables



4. Loosen the captive screw on the mounting bracket that secures the drive in place and remove the drive. Figure 3–20 shows the installation of a drive in the right storage slot of the lower drive-mounting shelf.

3.8.1 Setting the SCSI ID Information

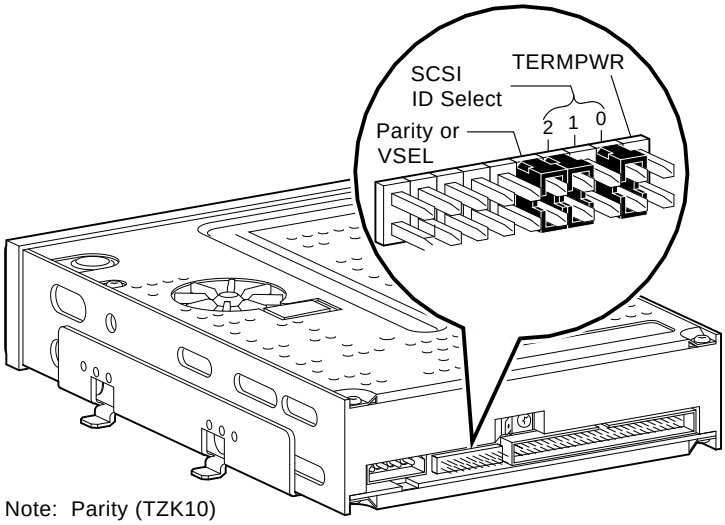
Note the position of all jumpers on the drive being removed, and set the jumpers on the new drive to the same position (see Figure 3–19).

The jumper wire on the left-hand side of the SCSI ID select jumpers is installed by default.

In the TZK10 drive, the jumper to the left of the SCSI ID select pins enables parity.

In the TZK11 drive, the jumper to the left of the SCSI ID select pins is a Vendor/Product ID Select (VSEL) switch. This jumper should be installed in a TZK11 that resides in a MicroVAX 3100 system.

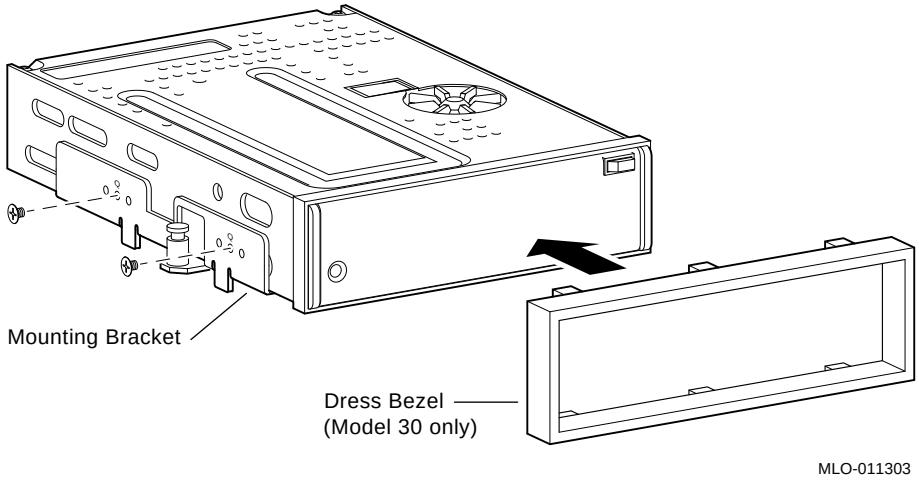
Figure 3–19 TZK10/11 Tape Drive SCSI ID Jumper Locations



3.8.2 Removing and Replacing the Mounting Bracket

1. If you have a MicroVAX 3100 Model 30 system, the TZK10/TZK11 drive has a dress bezel (see Figure 3–20). Detach the bezel from the drive you are removing, and install it on the new drive.
2. Note how the mounting bracket is attached to the old drive, in particular which mounting bracket screw holes are used, and which side the captive screw is on (see Figure 3–20).
3. Remove the mounting bracket from the old drive and attach it to the new drive in the same position.

Figure 3–20 TZK10/11 Dress Bezel Insert and Mounting Bracket



3.8.3 Installing the Replacement Drive

Use the following steps to install the replacement drive.

1. Connect the power cable to the power connector on the back of the drive (see Figure 3–18).
2. Connect the SCSI cable to the back of the drive (see Figure 3–18).
3. Align the tabs on the mounting bracket with the cutouts in the drive-mounting shelf. See Figure 3–6 for an example of how a similar storage device and mounting bracket are installed.
4. Tilt the drive slightly to slide the tabs in the drive-mounting shelf cutouts.
5. Lower the drive into position and tighten the captive screw on the mounting bracket to secure the drive in place.
6. Replace the upper drive-mounting shelf (if removed) and the enclosure cover.

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MicroVAX Models 30/40/80 Supplement
EK–M3148–SI. A01

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