TLZ07 Cassette Tape Drive and Autoloader

Owner's Manual

Order Number: EK-TLZ07-OM. B01

Apter Power

Digital Equipment Corporation

1.2.3 What is the Media Recognition System (MRS)?

MRS refers to a series of alternate opaque and clear stripes at the beginning of a tape. This striping is used to classify the media as data grade rather than audio grade media. Use of MRS helps to ensure that only data grade tapes are used in computer applications. All 120-meter cartridges support MRS. Shorter media are available in both MRS and non-MRS tpes.

1.3 TLZ07/7L Models

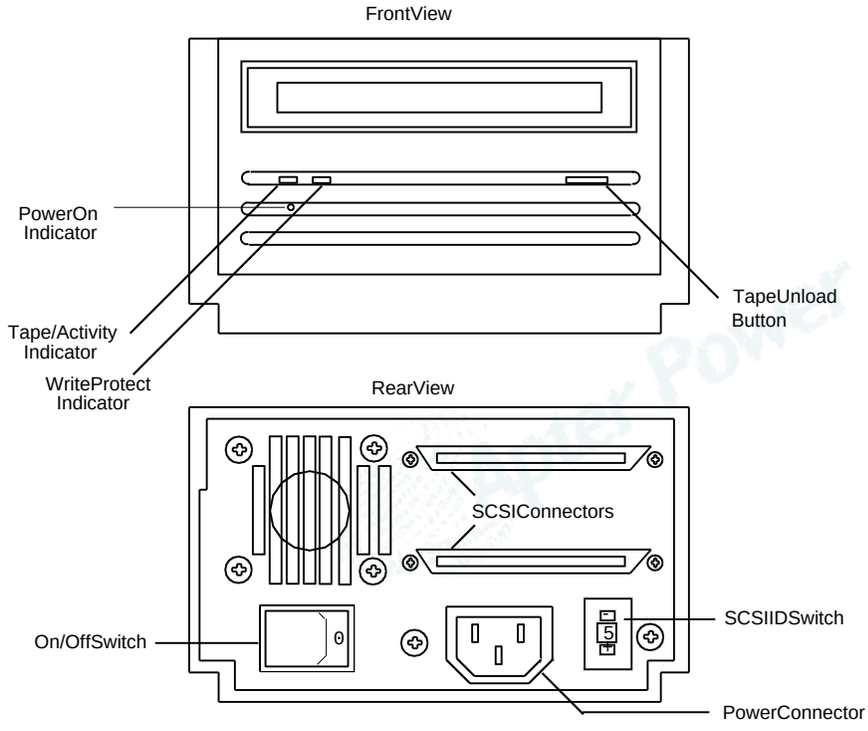
The TLZ07 drive is available in several configurations:

- Model TLZ07-DA (tabletop) — a compact external unit with a built-in power supply and fan (Figure 1–1 and Figure 1–2).
- Model TLZ07-AA — a 3 1/2-inch, half-height drive that mounts internally (Figure 1–3 and Figure 1–4).
- Model TLZ07-BA — a 3 1/2-inch drive in a 5 1/4-inch, half-height form factor allowing the drive to be mounted internally (Figure 1–3 and Figure 1–4).
- Model TLZ07-VA — a TLZ07-AA mounted in a 3 1/2-inch StorageWorks SBB.
- Model TLZ7L-AA — a 5 1/4-inch, full-height autoloader that mounts internally (Figure 7–1).
- Model TLZ7L-DA (tabletop) — an external unit with a built-in power supply and fan (Figure 7–3).
- Model TLZ7L-VA — a TLZ7L-AA mounted in a 5 1/4-inch StorageWorks SBB.

NOTE

All the models have a drive buffer size of 1 MB of memory.

Figure 1–1 Model TLZ07-DA (Tabletop - Original Version)



1.3.1 Checking Your Shipment for Model TLZ07-DA

In addition to this manual, make sure that your shipment includes the following:

- One TLZ07-DA tabletop cassette tape drive
- One 50-pin to 50-pin SCSI signal cable (PN 17-01351-01) for drive to drive connections only
- AC power cable
- One blank cassette tape (4 mm x 120 m), (PN TLZ07-CA)
- One head cleaning cassette (PN TLZ04-HA)
- SCSI terminator (PN 12-30552-01)

If your shipment is incomplete, please contact your Digital sales representative.

1.3.2 Checking your Shipment for Model TLZ7L-DA

In addition to this manual, make sure that your shipment includes the following:

- One TLZ7L-DA tabletop autoloader
- One 50-pin to 50-pin SCSI signal cable (PN 17-01351-01) for drive to drive connections only.
- AC power cable
- Five pack of blank cassette tapes (4 mm x 120 m), (PN TLZ07-CB)
- One head cleaning cassette tape (PN TLZ04-HA)
- SCSI terminator (PN 12-30552-01)
- Four-slot tape cassette magazine (PN TLZ06-04)

1.3.3 Ordering Additional Cassettes

To order additional blank cassette tapes and head cleaning cassettes, contact your Digital sales representative or DECdirect. Refer to the following part numbers.

- Five blank cassette tapes (4 mm x 60 m) (PN TLZ04-CB)
- Five blank cassette tapes (4 mm x 90m) (PN TLZ06-CB)
- Five blank cassette tapes (4 mm x 120m) (PN TLZ07-CB)
- One head cleaning cassette (PN TLZ04-HA)

2

Installing the Tabletop Drives/Loaders (TLZ07/TLZ7L)

2.1 General

This chapter shows you how to install the TLZ07-DA tabletop cassette tape drive or TLZ7L-DA tabletop autoloader on systems with an external SCSI connector. Read the following sections to complete the installation.

2.2 Shut Down, Halt, and Power Off the System

If you are installing a TLZ07-DA tabletop cassette tape drive or TLZ7L-DA tabletop autoloader on a running system, have your system manager perform the following steps:

1. Shut down the operating system.
2. Halt the system.
3. Set all system power switches off.

The tabletop drives provide two SCSI connectors to allow daisy chaining. Either connector can connect to the host computer or any SCSI device in a daisy chain.

- If the tabletop is the last drive in the chain an interface cable is attached to one connector and a SCSI terminator (PN 12-30552-01) is installed in the other connector.
- If the drive is within the chain, the interface cable from the preceding device is connected in one connector; an interface cable is also connected from the other connector to the following device.

NOTE

Make sure that the last SCSI device on the bus is terminated correctly.

2.4 Connecting a SCSI Signal Cable — Drive to System

If you are connecting a TLZ07-DA drive or TLZ7L-DA autoloader directly to your system, you should use the SCSI signal cable supplied as part of your system installation kit.

If you do not have this cable, contact your Digital sales representative. You should use a cable supplied by Digital Equipment Corporation. Failure to do so can result in degraded performance of your tabletop drive.

To connect a SCSI cable — drive to system — perform the following:

1. Connect one end of the cable to the system SCSI connector.
2. Connect the other end of the SCSI signal cable to either SCSI connector on the rear of the TLZ07-DA drive or TLZ7L-DA autoloader.
3. Secure the SCSI cable by snapping the wire cable clamps (on either side of the SCSI connector) into place.
4. Connect the SCSI terminator to the other SCSI connector on the rear of the TLZ07-DA drive or TLZ7L-DA autoloader.
5. Secure the terminator by snapping the wire cable clamps (on either side of the SCSI connector) into place.

2.5 Adding Another Tabletop Drive — Drive to Drive

If you have one SCSI tabletop device already connected to your system, you can connect the TLZ07-DA drive or TLZ7L-DA autoloader to that device. For drive to drive connections, use the 50-pin to 50-pin SCSI signal cable (PN 17-01351-01) supplied with the tabletop drive.

Care should be taken to ensure that total SCSI cable length is well within the SCSI specification limit of 6 meters (including cable length within the system enclosure). It is also important to ensure that the drive/loader is configured to supply terminator power to the bus (default configuration). See Chapter 3 and Chapter 7 for jumper/switch configurations.

1. If present, remove the SCSI terminator from the existing SCSI drive.
2. Connect one end of the SCSI signal cable (PN 17-01351-01) to the existing SCSI drive, observing the correct orientation of the cable connector.
3. Secure the SCSI cable by snapping the wire cable clamps (on either side of the SCSI connector) into place.
4. Connect the other end of the SCSI signal cable to either SCSI connector on the TLZ07-DA drive or TLZ7L-DA autoloader, observing the correct orientation of the cable connector.
5. Secure the SCSI cable by snapping the wire cable clamps (on either side of the SCSI connector) into place.
6. Connect the SCSI terminator to the other SCSI connector on the TLZ07-DA drive or TLZ7L-DA autoloader, observing the correct orientation of the cable connector.

2.6 Connecting the Power Cable

The tabletop drives have an autoranging power supply. Refer to Table A–1 for voltage specifications.

To connect the power cable, proceed as follows:

1. Be sure that the TLZ07-DA drive or TLZ7L-DA autoloader power switch is off (0).
2. Connect the power cable to the TLZ07-DA drive or TLZ7L-DA autoloader power connector.

Table A–1 (Cont.) TLZ07 Cassette Tape Drive Specifications

Characteristic	Specification(s)
Internal SCSI cable length (TLZ07-DA)	130 mm
Passes per cassette tape	2000
Power consumption (typical)	
Tabletop	12 W
Drive	9 W
Power requirements	
Tabletop (TLZ07-DA)	100 to 240 V ac, 0.3 A
Drive (TLZ07-AA/BA)	+5 V dc, 0.89 A
Drive (TLZ07-AA/BA)	+12 V dc, 0.2 A

Table A–2 TLZ07 Cassette Tape Drive Dimensions

Dimensions	TLZ07-AA	TLZ07-BA	TLZ07-DA
Height	41.2 mm (1.6 in)	41.2 mm (1.6 in)	85 mm (3.4 in)
Width	101.6 mm (4.0 in)	146 mm (5.7 in)	135 mm (5.3 in)
Length	146 mm (5.7 in)	175 mm (6.9 in)	235 mm (9.3 in)
Weight	.85 kg (2 lb)	1.1 kg (2.4 lb)	2.4 kg (5.2 lb)

Table A–3 TLZ07-DA Noise Declaration

Acoustics - declared values per ISO 9296 and ISO 7779:		
	LwAd	LpAm (bystander positions)
Idle	4,7 B	34 dBA
Operating	4,8 B	35 dBA
Schallemissionswerte - Werteangaben nach ISO 9296 und ISO 7779/DIN EN27779:		
	LwAd	LpAm (Zuschauerpositionen)
Leerlauf	4,7 B	34 dBA
Betrieb	4,8 B	35 dBA

NOTE

Current values for specific configurations are available from Digital representatives. 1 B = 10 dBA.

Aktuelle Werte für spezielle Ausrüstungsstufen sind über die Digital Equipment Vertretungen erhältlich. 1 B = 10 dBA.