



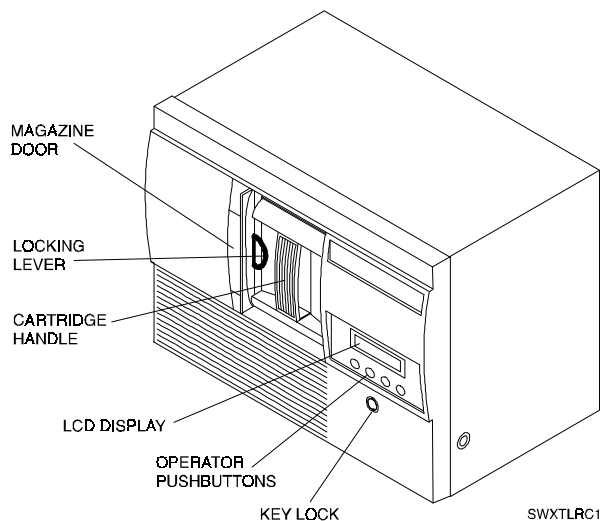
SWXTL-BL DLT Cartridge Mini-Library Operator's Reference Card

Use this card as a quick reference when operating the SWXTL-BL Mini-Library. For detailed information, see the *User Guide* (EK-SM1TC-UG. A01).

1 Mini-Library Front Panel

All normal-use operating controls and indicators are provided on the Mini-Library's front panel, as shown below:

SWXTL-BL Tape Mini-Library



Key Lock

A key lock on the front panel prevents unauthorized removal of magazine or cartridges. To *unlock* (or enable) the panel, insert and turn the key clockwise, toward the “opened” lock icon. To *lock* (or disable) that panel, insert the key and turn it counterclockwise, toward the “locked” icon.

Magazine Door

The magazine door provides a protective environmental covering for a 5-shelf magazine, which holds five individual DLT cartridges. An associated elevator mechanism can load or unload any specific cartridge into or from the internal tape drive.

CAUTION

Never force or try to open the magazine door manually. Always use the operator control panel's OPEN push-button, which opens the door electronically.

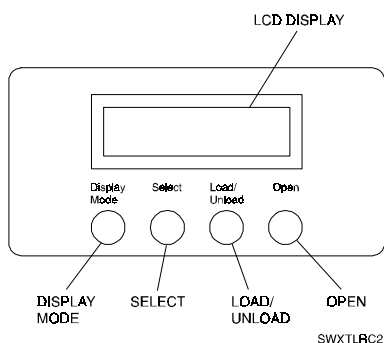
Locking Lever

A locking lever just inside the magazine door holds the magazine in correct position. Rotate lever clockwise to lock the magazine in place, counter clockwise to release.

LCD Display

An LCD display shows mini-library operation with abbreviated messages, as defined on panels 3 & 4.

Mini-Library Operator Control Panel



2 Operator Control Panel Functions

| Push-button | Function |
|--------------|--|
| Display Mode | Puts Mini-Library in Normal , Density Select , or SCSI ID Select mode. |
| Select | Selects SCSI ID and density. Changes current slot number to next slot number in sequence. (Repeat as applicable to select desired slot.) |
| Load/Unload | <ul style="list-style-type: none"> • Loads selected cartridge into tape drive. • Unloads cartridge currently mounted in drive. • Resets Mini-Library if a loader error has occurred (i.e., when ERR LDR message displays). |
| Open | Opens magazine door, allowing access to tape magazine. |

Operator Control Panel Display Messages

The following table lists (in alphabetic order) and describes all display messages which may appear on the operator control panel LCD during normal operation.

| Display Message | Meaning of Displayed Message |
|-----------------|--|
| 2.6 | Tape drive activity is as follows: <ul style="list-style-type: none"> • <i>On continuously</i> if selected tape was last recorded in 2.6 format • <i>Flashing</i> if tape was recorded in another density and you selected this density for a write from BOT. |
| 6 | Tape drive activity is as follows: <ul style="list-style-type: none"> • <i>On continuously</i> if selected tape was last recorded in 6 GB format. • <i>Flashing</i> if tape was recorded in another density and you selected this density for a write from BOT. |
| 10 | Tape drive activity is as follows: <ul style="list-style-type: none"> • <i>On continuously</i> if selected tape was last recorded in 10 GB format. • <i>Flashing</i> if tape was recorded in another density and you selected this density for a write from BOT. |

| Display Message | Meaning of Displayed Message |
|---|--|
| 10C | Tape drive activity is as follows: <ul style="list-style-type: none"> • <i>On</i> indicates Compression mode enabled (available for 10-GB density only). • <i>Off</i> indicates Compression mode is disabled. |
| DNS SEL | The Mini-Library is in its Density Select mode (see panel 7). |
| DRIVE ACT | The tape is reading or writing. |
| DRIVE RDY | A cartridge is in the drive and the tape is not moving. |
| DRIVE REW | The tape is rewinding. |
| ERR CTL | A controller error has occurred. |
| ERR DRV | A drive error has occurred. |
| ERR LDR | A loader transfer assembly error has occurred. |
| ERR MAG | The status of cartridges reported by loader and drive is inconsistent. |
| ERR UNK | An error of unknown origin has occurred. |
| HC | The read/write heads need cleaning. |
| LDR RDY | Power is on and no cartridge is in drive. |
| LDR ACT | Loader is moving a cartridge. |
| OVR | Tape drive activity is as follows: <ul style="list-style-type: none"> • <i>On</i> continuously indicates “density” on front panel • <i>Off</i> (default) indicates “density” selected automatically • <i>Flashing</i> indicates Mini-Library is in “density selection” mode |
| SLOT 0 SLOT 1 SLOT 2 SLOT 3 SLOT 4 | Identifies which magazine slot contains the currently selected cartridge. Also used with ERR MAG or ERR LDR messages to show error type. |
| WP | The selected cartridge is write-protected by one of the following: <ul style="list-style-type: none"> • Write-protect switch on cartridge is set to its write protect position. • Host software write-protect qualifiers are active. |

3 Operation of Mini-Library

Before pressing **Display Mode**, **Select**, **Load/Unload**, or **Open** push-buttons on operator control panel, check for conditions listed in the following table and ensure that:

- Mini-library power is turned on (power switch on rear panel set to 1).
- Magazine door is closed.
- Key lock on operator control panel is not set to lock.

NOTE

Do not press **Load/Unload** push-button to abort any in-process Mini-Library function. Consult your application's documentation for abort instructions.

Mini-Library Push-button Conditions

| If you want to ... | First, ensure that ... | Then press ... |
|---|--|---------------------------|
| Select another slot in magazine. | Magazine has at least two cartridges, and LCD displays LDR RDY. | Select |
| Load selected cartridge into tape drive. | Magazine has at least one cartridge, and display reads LDR RDY. | Load/ Unload |
| Return selected cartridge to its original slot in magazine. | LCD displays DRV RDY. | Load/ Unload |
| Clear magazine or loader error. | LCD displays ERR MAG or ERR LDR. | Load/ Unload |
| Open door or unload cartridge from drive and open door. | LCD displays LDR RDY. | Open |

4 Default Operating Modes

The Mini-Library operates in four modes: **Normal**, **Density Select**, **SCSI ID Select**, and **Code Select**, as described below.

Normal Mode

The **Normal** mode is used by default after you turn on or reset the Mini-Library, following the POST sequence. Information displayed during this mode depends on the Mini-Library's state, as follows:

Normal Mode Definitions

| If display message reads . . . | It means that . . . |
|---------------------------------------|--|
| LDR ACT | Loader is active. |
| LDR RDY | Loader is inactive and no cartridge is in drive. |
| DRV RDY | Drive is ready. |
| DRV ACT | Drive is active. |
| DRV REW | Tape is rewinding. |
| HC | It's time to use cleaning tape. |
| WP | Drive is in write-protect status. |

While in the default **Normal** mode, the **Display Mode** push-button switch operates as follows:

- If you momentarily press and release the **Display Mode** push-button once, the Mini-Library enters a **Density Select** mode of operation. If you momentarily press and release the **Display Mode** push-button switch once while operating in **Density Select** mode, the Mini-Library returns to its **Normal** mode of operation.
- If you press and hold the **Display Mode** push-button for about 5 seconds, the Mini-Library enters its **SCSI ID Select** mode of operation. If you momentarily press and release the **Display Mode** push-button switch once while operating in the **SCSI ID Select** mode, the Mini-Library returns to its **Normal** mode of operation. (Refer to User Guide for information on

selecting specific SCSI ID values or for entering the Code Update mode from that state.)

Density Select Mode

The **Density Select** mode allows you to select drive density. Information displayed during this mode depends on the Mini-Library state, as follows:

Density Select Definitions

| If display message reads ... | It means that ... |
|---------------------------------|--|
| DNS SEL | Mini-library is in Density Select mode. |
| OVR | Front panel selection overrides host selection. |
| DRV RDY | The drive is ready for operation. |
| DRV ACT | The drive is active. |
| DRV REW | The tape is rewinding. |
| HC | You need to use cleaning tape. |
| WP | The drive is in write-protect status. (Data can be read from but not written to tape.) |

Selecting Density

You can select density by using any of following steps:

NOTE

You can do a front-panel density selection at any time, but selection takes effect only with next Write from BOT.

1. On all read operations and all write-append operations, the recorded density is the density to use.

CAUTION

Executing a "Write from BOT" operation destroys any existing data on the tape.

2. On a Write from BOT, tape density is selected by one of the following:

- Native default density (if you did not use **Select Mode** or host selection): 10 GB and compression.
- Front panel **Density Select** mode, as detailed in following procedure.
- Programmable host selection via operating system.

5 Procedure for Selecting Density from the Operator Control Panel

To select density from the front panel:

1. If a tape is loaded in the drive, LCD display shows tape's pre-recorded density.
2. Density selection is inactive until a Write From BOT command is issued. The controller remembers the last density selection state until you either:
 - Change density selection, or
 - Press the **Open** push-button to open the door.
3. Enter **Density Select** mode by pressing first the **Display Mode** push-button and then the **Select** push-button on the operator control panel. (Manual **Density Select** mode always overrides a host selection.)

Results of Using or Not Using Density Select Mode

| If . . . | Then . . . |
|--|---|
| You used Density Select mode and actual tape density is that same density. | The display continuously shows actual density and OVR . |
| You used Density Select mode and actual tape density is different. | On operation <u>before</u> Write from BOT, display shows: <ul style="list-style-type: none"> • Actual tape density <u>on</u> continuously. • Selected density flashing. • OVR flashing. |
| | On operation <u>after</u> Write from BOT, display shows: <ul style="list-style-type: none"> • Selected density on continuously. • OVR on continuously. |
| You did not use Density Select mode | The display shows actual density while tape is reading |

| | |
|-----------------|-------------------|
| If . . . | Then . . . |
| | and/or writing. |

6 When to Use Cleaning Cartridge

| If . . . | It means . . . | And you should . . . |
|--|---|---|
| HC message displays. | The drive head needs cleaning or else the tape is bad. (See next item.) | Load a cleaning cartridge into the magazine and select slot containing that cleaning cartridge. (When cleaning is complete, cleaning cartridge unloads from drive and returns to the magazine, and LCD display shows a LDR RDY message.) |
| HC message still displays after you clean drive head. | Your data cartridge may be causing problem. | Try another cartridge. |
| HC message still displays after you use cleaning cartridge. | Cleaning has not been done and cartridge is expired (used up). | Replace cleaning cartridge. |
| A data cartridge causes frequent HC message. | The data cartridge may be damaged. | Back up the data on another cartridge. Discard old cartridge, which may be damaged. |

NOTE

The cleaning cartridge expires after approximately 20 uses. Each time you use it, place a checkmark on the usage label supplied with the CleaningTape III cartridge, so that you will know whether the tape is still viable.

7 Removing Magazine from Mini-Library

To remove a magazine from the Mini-Library, first ensure that operator control panel is enabled (key lock is unlocked). Then proceed as follows:

CAUTION

Do not press **Load/Unload** push-button until backup or any other automatic tape operations have been stopped at the terminal. Doing so can result in operation failure and drive unavailability.

1. If a tape is loaded in drive, press **Load/Unload** push-button to unload tape and move it from drive into magazine.
2. Press **Open** push-button on front control panel to open door of Mini-Library.
3. Turn locking lever at front of Mini-Library clockwise to rotate magazine locking mechanism, so you can remove magazine from Mini-Library.
4. Slide door all the way to the left.
5. Grasp magazine's handle and pull magazine out of Mini-Library.

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