Removal

Caution: Parts can be damaged by electrostatic discharge. Keep parts in their containers until needed. Ensure you are properly grounded when touching static-sensitive components.

Note: Use L&T, RMI, or MSLUtil diagnostic software to verify installations and to ensure your library has the latest firmware.

Note: If you are adding an additional tape drive to your library, skip to “Installation” in step 7.

Note: Depending on the model, your library may look different from the ones illustrated in this procedure.

Inspect the contents of the kit.

Unload any tape cartridges in the drive to be removed using your application software or the library GUI touch screen.
3. Deactivate the tape drive to be removed by selecting Menu > Maintenance > Replace Drive > Deactivate Drive n. The screen will change to indicate that Drive n can now be removed.

4. Make sure that the LED on the tape drive to be removed is off.

5. Using a flat-blade screwdriver, loosen the two captive thumbscrews at the top center and lower left of the tape drive.

6. Pull straight back on the tape drive handle to remove it from the library.

7. Installation

8. Before installing the new drive, inspect the connectors on the tape drive and in the drive bay. Ensure that the connectors are intact, free of any foreign objects, and have no cracks or deformed contacts.

9. Slowly insert the new tape drive into the drive bay, aligning the connectors on the tape drive with the connectors in the drive bay.

10. Using a flat-blade screwdriver, tighten the two captive thumbscrews. If adding an additional drive, configure the library for the new tape drive. Refer to the tape library user guide for more information.

11. If you are adding an additional tape drive to your library, or if you are upgrading an existing drive, ensure you use supported cabling configurations. See the HP StorageWorks MSL6000 Series Tape Library User Guide for more information. The user guide can be downloaded from http://www.hp.com/support.

12. When cabling one drive per SCSI bus, use the following configuration.

13. Activate the tape drive by selecting Activate Drive n > Back > Back > Back to the main screen. The screen will change to indicate that drive n is now activated.

Note: After pressing Active Drive 2, the message disappears.

- Terminator
- 0.5 m cable
- Cable to host
- RS-232 diagnostic cable (for service only)
Using a flat-blade screwdriver, tighten the two captive thumbscrews. If adding an additional drive, configure the library for the new tape drive. Refer to the tape library user guide for more information.

Activate the tape drive by selecting Menu > Maintenance > Replace Drive > Deactivate Drive n. The screen will change to indicate that Drive n can now be removed.

Make sure that the LED on the tape drive to be removed is off.

Slowly insert the new tape drive into the drive bay, aligning the connectors on the tape drive with the connectors in the drive bay. Caution: Push on the tape drive handle and the bottom portion of the tape drive until it is seated.

Pull straight back on the tape drive handle to remove it from the library.

If you are adding an additional tape drive to your library, or if you are upgrading an existing drive, ensure you use supported cabling configurations. See the HP StorageWorks MSL6000 Series Tape Library User Guide for more information. The user guide can be downloaded from http://www.hp.com/support.

If you are upgrading to a new drive technology, use HP StorageWorks Library and Tape Tools to upgrade the library firmware before installing the new tape drive.

Before installing the new drive, inspect the connectors on the tape drive and in the drive bay. Ensure that the connectors are intact, free of any foreign objects, and have no cracks or deformed contacts.

Deactivate the tape drive to be removed by selecting Menu > Maintenance > Replace Drive > Deactivate Drive n. The screen will change to indicate that Drive n can now be removed.

Using a flat-blade screwdriver, loosen the two captive thumbscrews at the top center and lower left of the tape drive.

Pull straight back on the tape drive handle to remove it from the library.

Note: Some effort is required to overcome the initial resistance of unplugging the tape drive from the drive bay.

Note: For optimum performance, Ultrium 460 and 960 drives should be configured with one drive per bus.

When cabling one drive per SCSI bus, use the following configuration.

- Terminator
- 0.5 m cable
- Cable to host
- RS-232 diagnostic cable (for service only)

Note: After pressing Active Drive 2, the message disappears.
Caution: Parts can be damaged by electrostatic discharge. Keep parts in their containers until needed. Ensure you are properly grounded when touching static-sensitive components.

Unload any tape cartridges in the drive to be removed using your application software or the library GUI touch screen.

Note: This part is hot-pluggable. It is not necessary to power down the library to replace this part.

Note: Depending on the model, your library may look different from the ones illustrated in this procedure.

Note: If you are adding an additional tape drive to your library, skip to “Installation” in step 7.

Inspect the contents of the kit.

Use HP StorageWorks Library and Tape Tools, Remote Management Interface (RMI), or MSLUtil diagnostic software to upgrade the drive to the latest firmware.

Note: You may need to reconfigure your software application. Drive serial numbers might be used for configuration and to assign drives to the library.

Getting Help
• HP Product Information Site: http://www.hp.com/go/storage
• HP Technical Support and Phone Numbers: http://www.hp.com/support
• HP StorageWorks Library and Tape Tools (L&T) diagnostic software: http://www.hp.com/support/tapetools

Note: Use L&T, RMI, or MSLUtil diagnostic software to verify installations and to ensure your library has the latest firmware.

Note: Use L&T, RMI, or MSLUtil diagnostic software to verify installations and to ensure your library has the latest firmware.

Caution: This part is not hot-pluggable.