

HP StorageWorks MSL Tape Libraries and 1/8 G2 Tape Autoloader

SAS tape drive upgrade and replacement

The tape drive is a mandatory customer self repair part. HP customer self repair (CSR) programs allow you to repair your StorageWorks product. If a CSR part needs replacing, HP ships the part directly to you so that you can install it at your convenience. For more information about CSR, contact your local service provider. For North America, see the CSR website: www.hp.com/go/selfrepair

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The information in this document is subject to change without notice.

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△ CAUTION:

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

△ CAUTION:

Powering off the master drive will interrupt SCSI communications with the Autoloader or Library. When replacing a drive other than the master drive in a multiple drive configuration, you can power off the drive being replaced without interrupting communication with the Library.

1a Removing the tape drive

If you are adding a tape drive or this is the first tape drive to be installed in the device, go to step 1b.

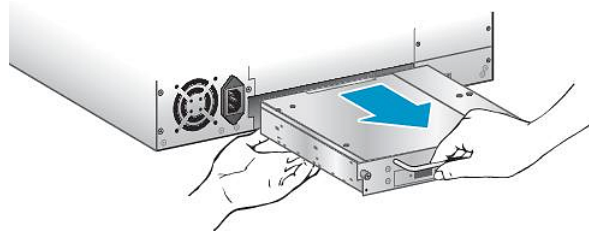
Make sure the tape cartridge has been removed from the tape drive. Use the operator control panel (OCP) or the remote management interface (RMI) to move the cartridge to a storage slot or mailslot.

If you are replacing the tape drive in a single drive unit or the master drive in a multi-drive unit, verify that backups are not occurring on the drive you are replacing. If backups are occurring on the master drive, verify that the Library will not be accessed through this drive while the drive is being replaced.



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Use the OCP or RMI to power off the tape drive. Verify that the tape drive LED is off.



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Remove the SAS cable from the tape drive being replaced. Loosen the blue captive thumbscrews on the tape drive. Pull straight back on the tape drive handle while supporting the bottom of the drive to remove it from the unit.

△ CAUTION:

Support the bottom of the tape drive when removing it to avoid damaging any of the internal connections.

Continue with step 2.

1b Removing the bay cover

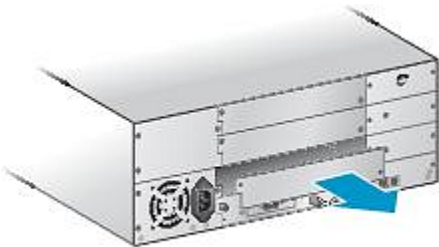
Install the new drive directly above the currently installed drives. If this is the first tape drive, install it in the bottom drive bay.



The MSL8048 and MSL8096 Libraries only have half-height drive connectors at the locations shown. Leave a half-height space between drives, as shown.

ⓘ IMPORTANT:

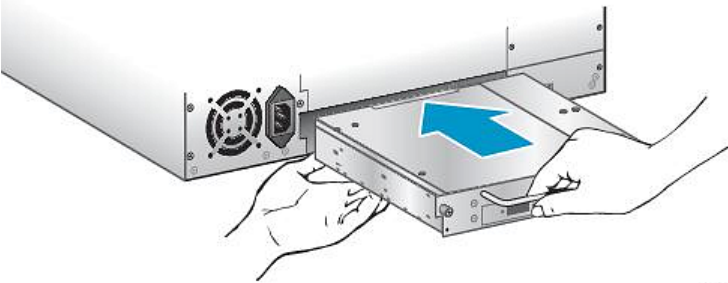
If you install a new drive between two existing tape drives, the drive numbering might change. In this case, you may need to reconfigure your backup software.



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Using a Phillips screwdriver, remove the drive bay cover.

2 Installing the new tape drive



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Align and slowly insert the new tape drive into the drive bay while supporting the drive assembly. The tape drive should be flush with the back panel of the device. Tighten the captive thumbscrews with your fingers until the tape drive is secure.

Connect the SAS cable to the SAS connector on the new tape drive.

3 Verifying the installation

Power on the drive from the OCP or RMI, if necessary.

Confirm that the device recognizes the new tape drive by checking the System Status screen on the front panel. The new drive should show Ready or RDY status.

Use HP StorageWorks Library & Tape Tools (L&TT) to verify that the tape drive has the current firmware. Update the firmware, if necessary. You can download L&TT without charge from <http://www.hp.com/support/TapeTools>.

Getting help

- HP Product information:
www.hp.com/products/tapestorage
- HP technical support and phone numbers:
www.hp.com/support
- HP StorageWorks Library & Tape Tools (L&TT) diagnostic software:
www.hp.com/support/TapeTools