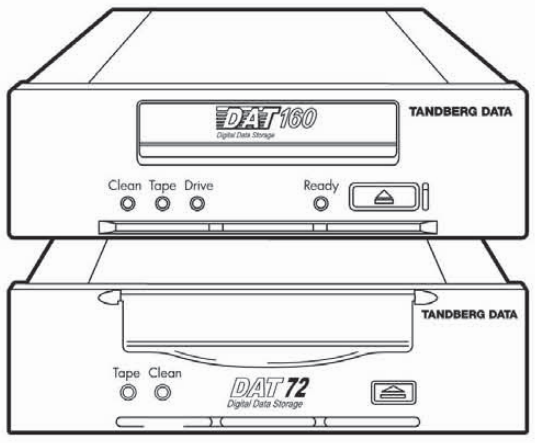
TANDBERG DATA
Securing your Information

Tandberg Data DAT160 and DAT72
SCSI Internal Tape Drives

QUICK START



1 Introduction

This poster describes how to install your Tandberg Data DAT160 or DAT72 tape drive.

- Use the fixing screws supplied with the tape drive
- Connect to an Ultra160 SCSI HBA (or higher) using a supported SCSI cable
- Use the correct driver

WARNING: To avoid personal injury or damage to the server or tape drive, disconnect your server from the mains power supply before installing the tape drive.

To avoid damage to server or tape drive observe all recommended anti-static and power-grounding precautions, as specified in your server and tape drive manuals.

2 Preparing the host

IMPORTANT: Refer to **www.tandbergdata.com** for detailed compatibility information about operating systems and software applications.

SCSI HBA

We recommend an Ultra160 host bus adapter. If necessary, install a new HBA before you connect the tape drive. Ensure that you are connecting to a supported HBA running the recommended firmware version.

Your tape drive will work with lower-rated LVDS SCSI but performance may be degraded. Single-ended SCSI will degrade performance and limit cable length. **Do not** attach to narrow or HVD SCSI.

Drivers

For Windows systems, download the latest drivers from **www.tandbergdata.com**. For other operating systems, patch to the latest version of the operating system, following the instructions in the patch documentation.

Backup software

Always **upgrade** your software application to ensure it works correctly with the tape drive. We do **NOT** recommend native backup applications, such as Windows Backup, because they do not support the full features of the tape drive and may cause performance problems.

NOTE: Some backup applications require you to use their own drivers. Refer to the documentation of your software application to ensure you are using the recommended driver.

Mounting bay

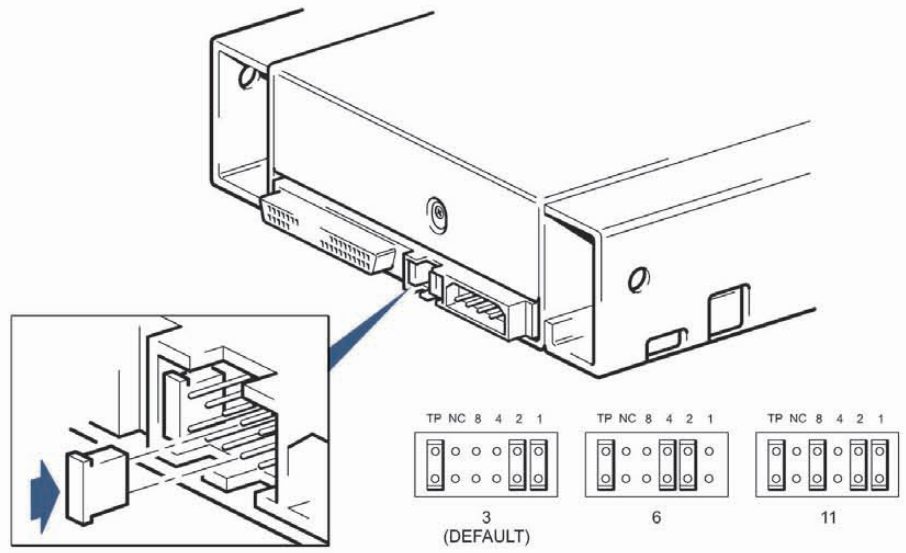
You need one industry-standard, 51/4-inch, half-height bay in which to install the Tandberg Data DAT160 or DAT72 tape drive.

Different models of server require different mounting methods. Refer to your server documentation for detailed information. You may need to purchase mounting hardware separately.

3 Check the drive's SCSI ID

Your Tandberg DDS tape drive is shipped with a default SCSI ID of 3. Each device on the SCSI bus must have an unique SCSI ID number. The drive can be assigned any unused ID between 0 and 15. Do not use SCSI ID 7, which is reserved for the SCSI controller. SCSI ID 0 is typically assigned to the boot disk and should also not be used unless the tape drive is on a dedicated SCSI bus.

CAUTION: Static electricity can damage electronic components. Always wear an antistatic wriststrap if possible. If not, to equalize the electromagnetic charges, touch a bare metal part of the server (such as the back plate) before you remove the tape drive from its bag.



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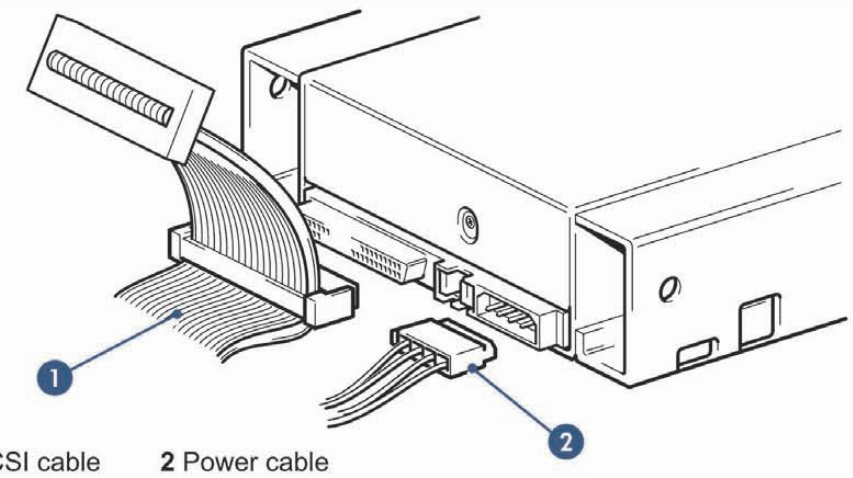
4 Connecting the tape drive

CAUTION: Turn off and remove the power cords from the server and all attached accessories.



1 SCSI cable **2** Power cable

SCSI cable and termination

Check your server or HBA documentation to ensure that the SCSI bus and cabling are the correct specification for your tape drive: Ultra160 is recommended. Daisy-chaining multiple devices is not recommended. If you do so, do not mix drive families (only daisy-chain with other DDS tape drives) and attach no more than two devices to the same SCSI bus. If the drive is the last device on the SCSI chain, make sure that the SCSI cable is terminated correctly.

Power cable

Attach a spare power cable from the server's internal power supply to the power connector (2).

5 Power on the tape drive and verify connection

- Plug in the host server or workstation and all attached devices.
- Turn on any other devices you turned off earlier. Turn on the server.
- Check the LEDs on the front panel to make sure the tape drive is ready for use (See section 7: Understanding the LEDs).
- Verify the connection.

6 Choosing and looking after media

Your high-performance tape drive works best with high-performance Tandberg Data DAT media. For optimum performance always use a data cartridge that matches the specification of your tape drive (see table) and normally only use one cartridge per day.

NOTE: The DAT160 media cartridge is an 8mm cartridge. DAT160 tape drives are compatible with both 8mm and earlier 4mm DDS/DAT cartridges. DAT72 tape drives may only be used with 4mm DDS/DAT cartridges.

Table: Tandberg Data DAT data cartridge compatibility

	DDS-2	DDS-3	DDS-4	DAT72	DAT160
Tandberg Data DAT160	Not Supported	Not Supported	Read/Write	Read/Write	**Read/Write (Recommended)**
Tandberg Data DAT72	Not Supported	Read/Write	Read/Write	**Read/Write (Recommended)**	Not Supported

* Capacity assumes 2:1 compression.

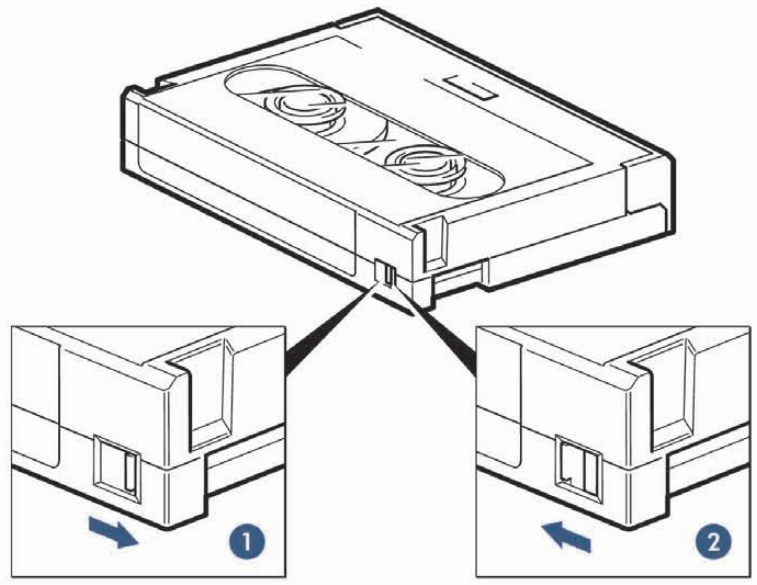
The recommended cleaning cartridge is the Tandberg Data DAT160 cleaning cartridge for DAT160 tape drives and the Tandberg Data DAT72 cleaning cartridge for DAT72 tape drives.

It pays to look after your media

Many tape drive and backup failures are caused by damaged or badly handled tape media.

- Keep media in the case provided.
- Follow the temperature, humidity and acclimitization guidelines on the media packaging.
- Avoid dropping it or rough handling, as this is likely to damage the cartridge.
- Inspect it regularly for damage.
- Do not exceed normal cartridge life.

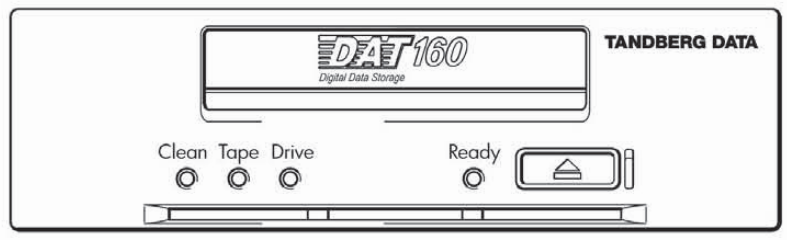
For detailed information on media care and best handling please visit **www.tandbergdata.com**.



1 Write-protect switch off **2** Write-protect switch on

7 Understanding the LEDs

DAT160



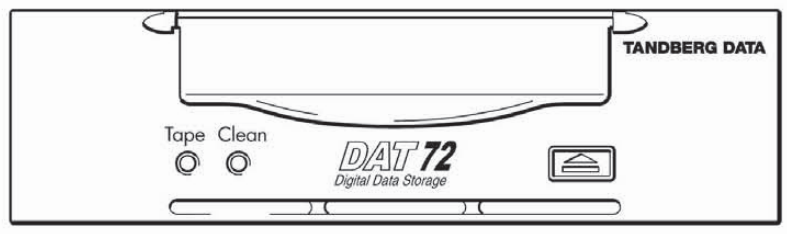
Clean – amber
- Off: the drive does not require cleaning
- Flashing: the drive needs cleaning

Tape – amber
- Off: no fault has been detected
- Flashing: the cartridge currently in the drive is faulty (damaged or unsupported). Discard the cartridge.

Drive – amber
- Off: no fault has been detected
- Flashing: the drive mechanism has detected a hardware error

Ready – green
- On: the drive is ready for use and there is media in the drive
- Off: drive power is off or there is no media loaded
- Flashing: the drive is busy

DAT72



Tape – amber
- On: cartridge loaded, drive ready
- Flashing: drive busy (read, write, load, unload).

Clean – amber
- On: drive error
- Flashing: media error (use cleaning cartrdge)

8 Other sources of information

There is a more detailed "User Guide" on **www.tandbergdata.com**.

If you need technical support or have any problem with your DAT160 or DAT72 tape storage solution, please visit the support pages at **www.tandbergdata.com**.