



FIELD INSTRUCTIONS
Exabyte Mammoth 8mm Tape Drive

Replacing the Cartridge Loader

Contents

1	Before you begin	2
2	Removing the top cover and faceplate	3
3	Removing the cartridge loader.	5
4	Installing the cartridge loader	6
5	Replacing the faceplate and top cover	8
6	After replacing the cartridge loader.	10

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1 Before you begin

CAUTION

Before you begin, make sure that the repair environment for the tape drive is free of conditions that could cause electrostatic discharge (ESD).

To protect the tape drive from ESD, follow these procedures when repairing or testing it:

- Place a static protection mat on the work surface used for tape drive components. Use a 1-megohm resistor to ground the static protection mat.
- Wear a static protection wrist band whenever you handle tape drive printed circuit cards. Connect this wrist band to the static protection mat or to other suitable ESD grounding.

If there is a cartridge in the tape drive, remove it before performing any maintenance procedure.

Note: If a cartridge is jammed in the cartridge loader, contact Exabyte Technical Support before you perform this procedure.

Required tools

- Torque limiting screwdriver
- T-6 TORX bit
- A pair of tweezers

2 Removing the top cover and faceplate

1. Remove the two side screws and one rear screw that attach the top cover to the tape drive (see Figure 1).

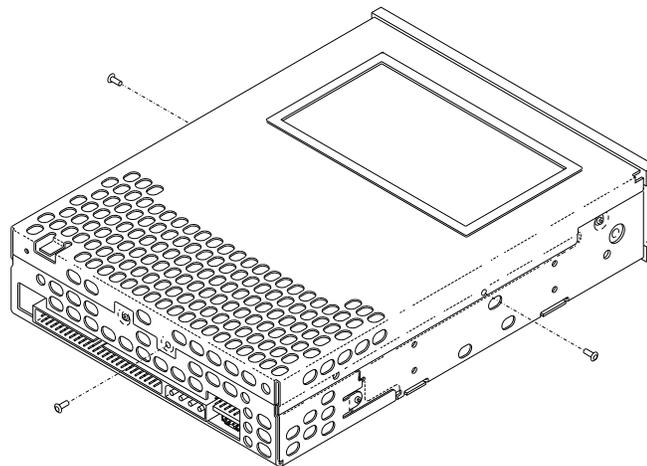


Figure 1 Removing the top cover

2. To remove the top cover, slide it back about 1 inch (2.6 cm). Lift the front edge first, and then remove the cover.

2 Removing the top cover and faceplate

3. If your tape drive has an LCD on the faceplate, disconnect the LCD flex cable before you remove the faceplate. Unlock the LCD flex cable connector by pulling one end of the tab and then the other toward the cable (see Figure 2). Gently pull the LCD flex cable out of the connector.

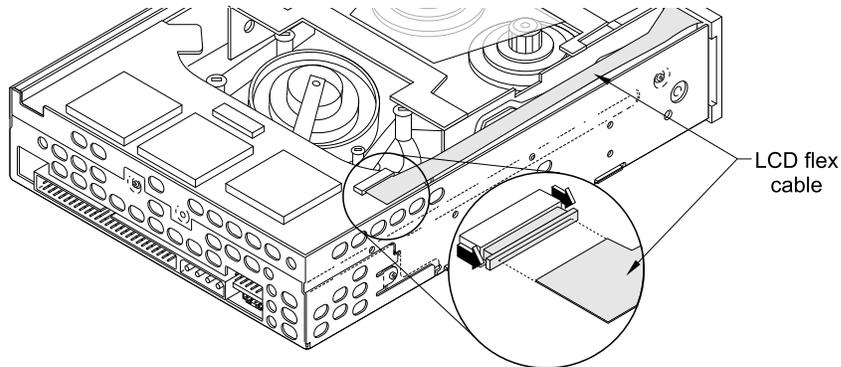


Figure 2 Loosening the LCD flex cable connector

4. Press in the faceplate tabs on both sides of the tape drive, as shown in Figure 3. Pull the faceplate straight out from the tape drive.

CAUTION

Make sure you pull the faceplate straight out to remove it. If you tilt or twist the faceplate, you might damage the LED circuit card on the left side of the tape drive.

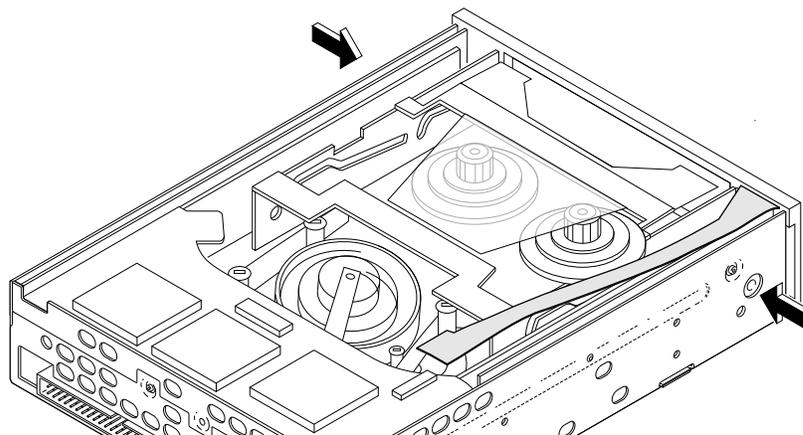


Figure 3 Removing the faceplate

3 Removing the cartridge loader

1. If your tape drive has a wire clip on the inner front panel, use a T-6 screwdriver to loosen the clip (see Figure 4). Remove the wires from the clip.

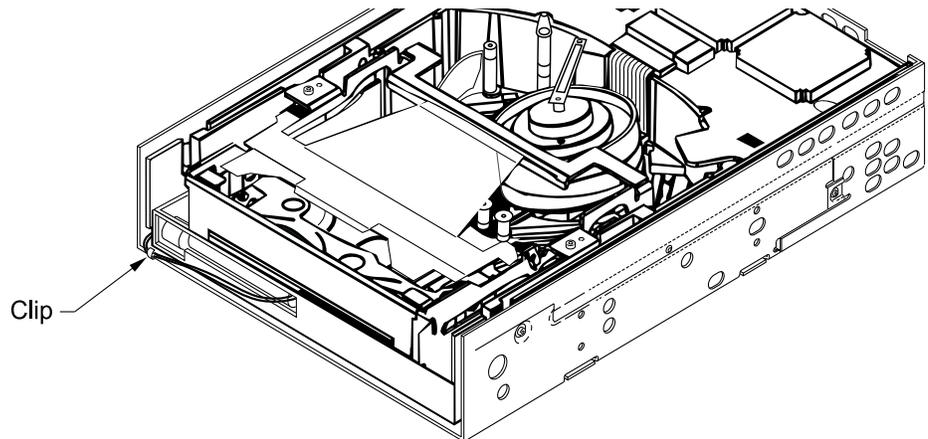


Figure 4 Loosening the cartridge loader wire clip

2. Use a pair of tweezers to disconnect the cartridge loader wire connector from the circuit board (see Figure 5). Note the orientation of the wires so that you can replace the connector correctly.

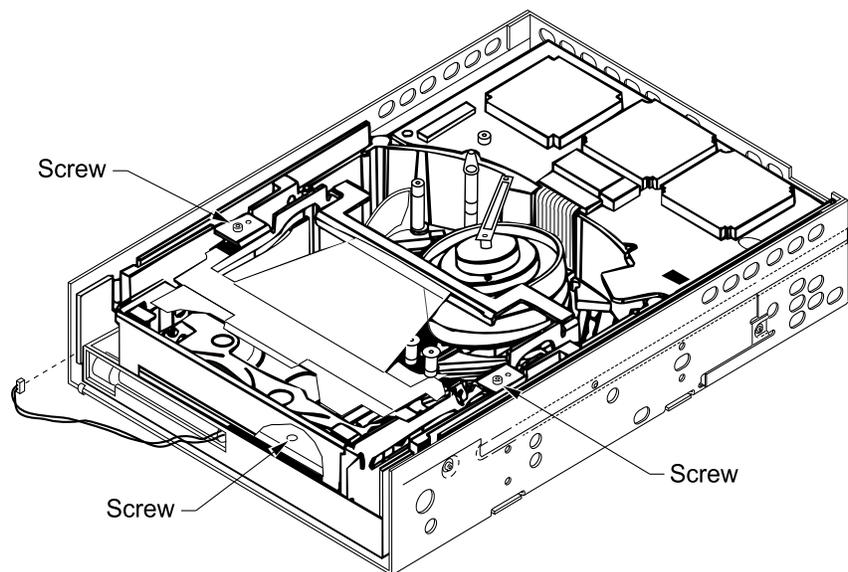


Figure 5 Removing the cartridge loader screws and disconnecting the wires

4 Installing the cartridge loader

3. Use a T-6 screwdriver to remove the three screws that secure the cartridge loader to the tape drive (see Figure 5).

CAUTION

The screws are very small. Be careful not to drop them into the tape drive.

4. Lift the back of the cartridge loader slightly. Handling the cartridge loader by the frame, remove it from the tape drive.

4 Installing the cartridge loader

1. Handling it by the frame, lower the front of the replacement cartridge loader into the front of the tape drive. Guide the cartridge loader wires through the rectangular hole in the front of the tape drive.

CAUTION

Be careful not to pinch the wires between the motor and the inner front panel.

- Using the alignment pins shown in Figure 6 for guidance, lower the back end of the cartridge loader into the tape drive.

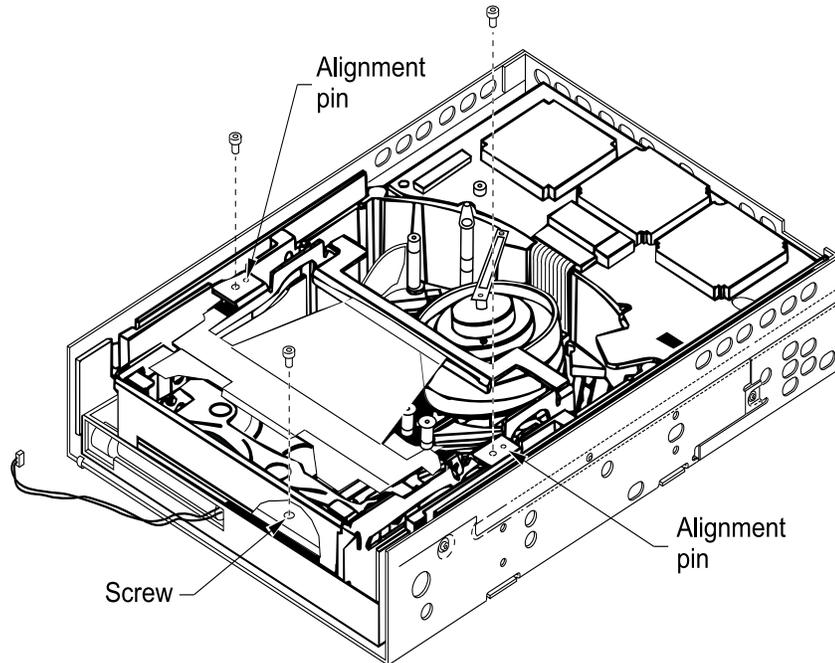


Figure 6 Installing the cartridge loader

- Replace the three screws that attach the cartridge loader to the tape drive (see Figure 6). Tighten the screws to 1.2 inch-pounds of torque.
- Using a pair of tweezers, reconnect the cartridge loader wires to the circuit board (see Figure 6).
- If your tape drive has a wire clip, guide the cartridge loader wires into the clip and tighten the wire clip screw.

Note: If you need to replace the door, refer to *Replacing the Exabyte Mammoth Door* (part number 319934).

5 Replacing the faceplate and top cover

1. Place the tape drive on a flat surface. Align the bottom of the replacement faceplate with the bottom of the tape drive. Position the LED guard on the back of the faceplate on the left side of the tape drive.
2. Position the faceplate tabs inside the side panels and press the faceplate onto the tape drive (see Figure 7).

CAUTION

Make sure you align the bottom of the faceplate with the bottom of the tape drive and position the faceplate tabs inside the walls of the tape drive before you attach the faceplate. If you misalign the faceplate, you could break the LEDs off the printed circuit card.

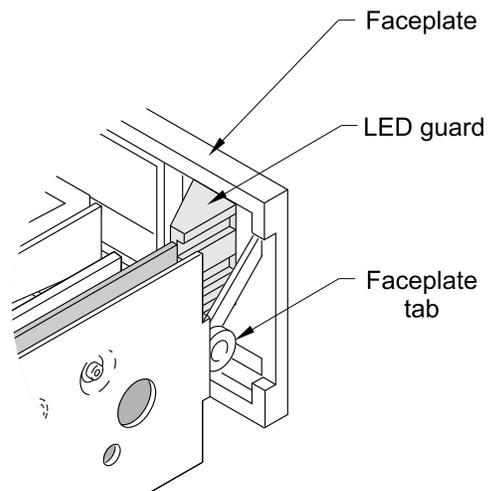


Figure 7 Positioning the faceplate

3. If your faceplate has an LCD, pull the tab on the LCD flex cable connector toward the left side panel (see Figure 8).

If your faceplate does not have an LCD, go to step 6, below.

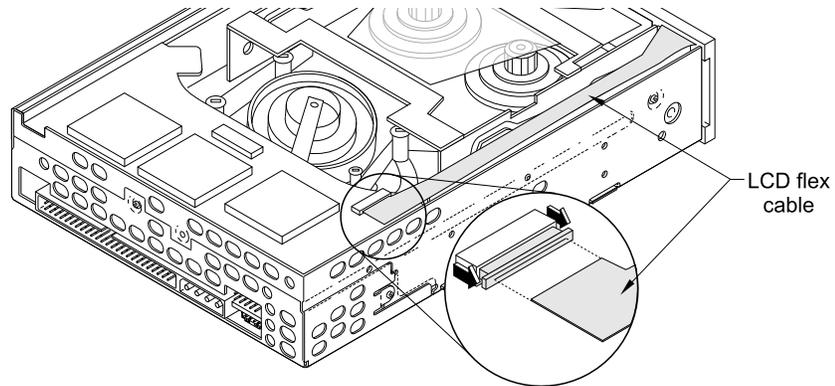


Figure 8 Loosening the tab on the LCD flex cable connector

4. Slide the LCD flex cable all the way into the connector on the card. Make sure the LCD flex cable is firmly seated in the connector.
5. Holding the flex cable firmly in place, press the tab into the connector to close it.
6. Place the top cover on the tape drive so that the back edge extends about 1 inch (2.6 cm) over the back of the tape drive. Slide the cover forward carefully, guiding the tab on the top cover under the lip of the faceplate.

CAUTION

A mylar flap inside the tape drive protects the cartridge loader. Be careful not to catch the flap on the top cover window as you slide the top cover forward.

6 After replacing the cartridge loader

7. Replace the three screws that attach the top cover to the tape drive (see Figure 9). Tighten the screws to 1.2 inch-pounds of torque.

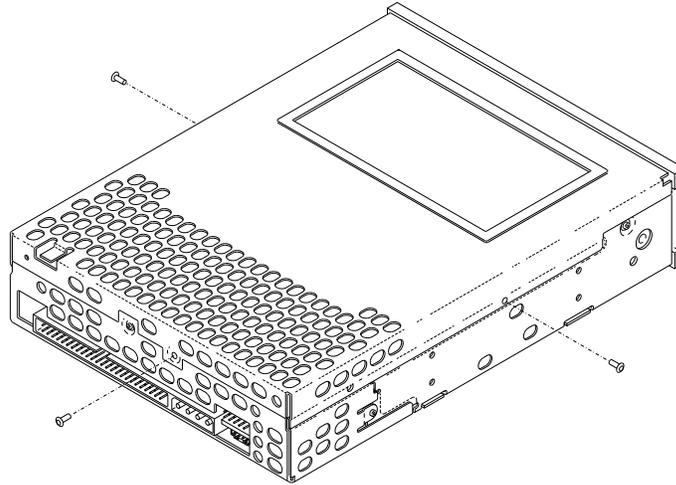


Figure 9 Replacing the top cover

6 After replacing the cartridge loader

Reconnect the power cable and power on the tape drive. Insert a cartridge into the tape drive. Check the following operations:

- The cartridge loads and unloads smoothly
- The tape drive door closes when you pull the cartridge out
- If you have a faceplate with an LCD, make sure the LCD operates correctly. Refer to *Exabyte Mammoth Installation and Operation* (part number 306484) for more information about the LCD.

If you experience any problems, make sure:

- The faceplate is positioned squarely on the front of the tape drive
- The door spring was correctly retensioned
- The cartridge loader wires are securely attached
- The LCD flex cable is securely attached