20 Gbyte 4 mm Tape Auto-Loader Product Note

Tape Media Warning

The 20 Gbyte 4 mm Digital Data Storage-1 (DDS) tape auto-loader requires high quality, data grade media for reliable operation. The auto-loader unit uses 60m and 90m media; 120m media is not supported as it is designed for the DDS-2 class drive.

Sun *strongly* recommends that you use only the DDS media brands that have been tested and approved by Sun. These include:

- **Fuji** (all 60m and 90m) media

- **Archive**, **Conner**, and **Sony** (all 60m) media

- **Archive, Conner**, and **Sony** (90m) media with date codes as follows:

  a. Date code ending with 53, 63, 73, 83, or 93

  b. Date code with the letter O, N, or D preceding the last digit in the code

  c. Date code ending with the number 4

Note – The date code is on the tape edge adjacent to the write-enable tab.

Any DDS media that can be purchased through Sun or Sun Express are acceptable for the auto-loader.

Removing the Mylar Sheet from the Auto-Loader

Note – If your auto-loader was factory-installed or is installed in a Desktop Storage Module, the instructions in this section do not apply. These instructions apply only for the x-option 20 Gbyte 4 mm tape auto-loader for servers (595-3193-xx) and field replaceable units (F370-1616-xx and F370-1617-xx).

Follow these instructions to remove the mylar sheet from the 20 Gbyte 4 mm tape auto-loader before installing the auto-loader in a system.

1. **Turn the auto-loader upside down and remove the two screws that secure the mylar sheet to the auto-loader. See Figure 1.**
   There should be a total of six screws at the bottom of the auto-loader; remove *only* the two screws that protrude slightly from the bottom of the auto-loader.
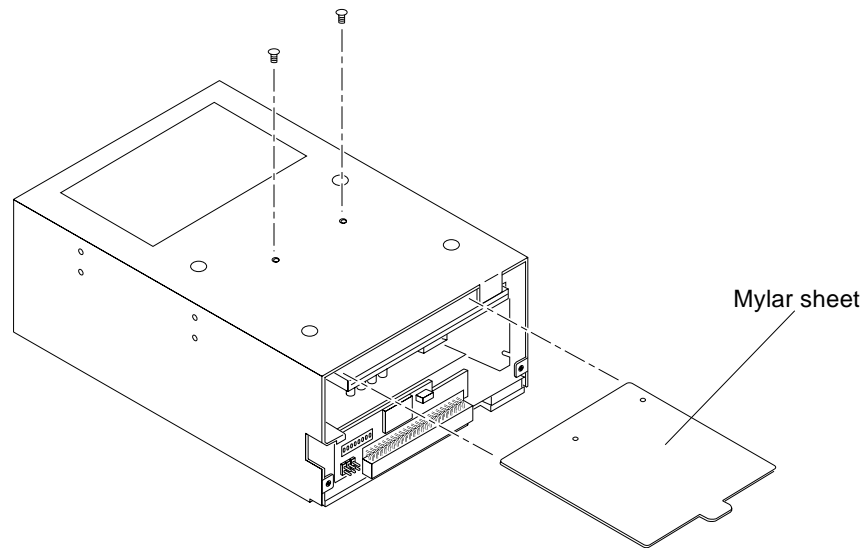

Mylar sheet

Figure 1   Removing the Mylar Sheet from the Auto-Loader

2. **Grasp the clear plastic tab at the rear of the auto-loader and pull the mylar sheet out of the unit. See Figure 1.**
Keep the mylar sheet and the two screws in a safe place. If you ship the unit at a later date, reverse these steps to place the sheet back in the unit.

Attaching the Mounting Brackets

Note – The instructions in this section do not apply if your auto-loader is installed in a Desktop Storage Module. These instructions apply for the x-option 20 Gbyte 4 mm tape auto-loader for servers (595-3193-xx) and field replaceable units (F370-1616-xx and F370-1617-xx).

The auto-loader is shipped with two mounting brackets that must be used when installing the unit in a server system internal SCSI tray. A fan that will help regulate airflow and ensure adequate cooling is attached to the longest bracket. This fan subassembly bracket must be attached to the right side of the auto-loader (as you face the front of the auto-loader). The shorter bracket must be attached to the left side of the unit.

Note – If the auto-loader is installed in a SCSI tray, refer to the installation or service manual that came with the hardware for instructions on removing the auto-loader and disconnecting cables.

Attaching the Left Bracket

1. **Place the auto-loader on a work surface.**

2. **Attach the shorter bracket to the left side of the auto-loader using two M3 screws. See Figure 2.**

Attaching the Fan Subassembly Bracket

Note – The fan subassembly bracket can be attached to the right side of the auto-loader *only*. Holes in the bracket will not line up properly on the left side.

1. **Align the fan subassembly bracket along the right side of the auto-loader.**
The fan will be at the rear of the unit when the bracket is properly aligned.

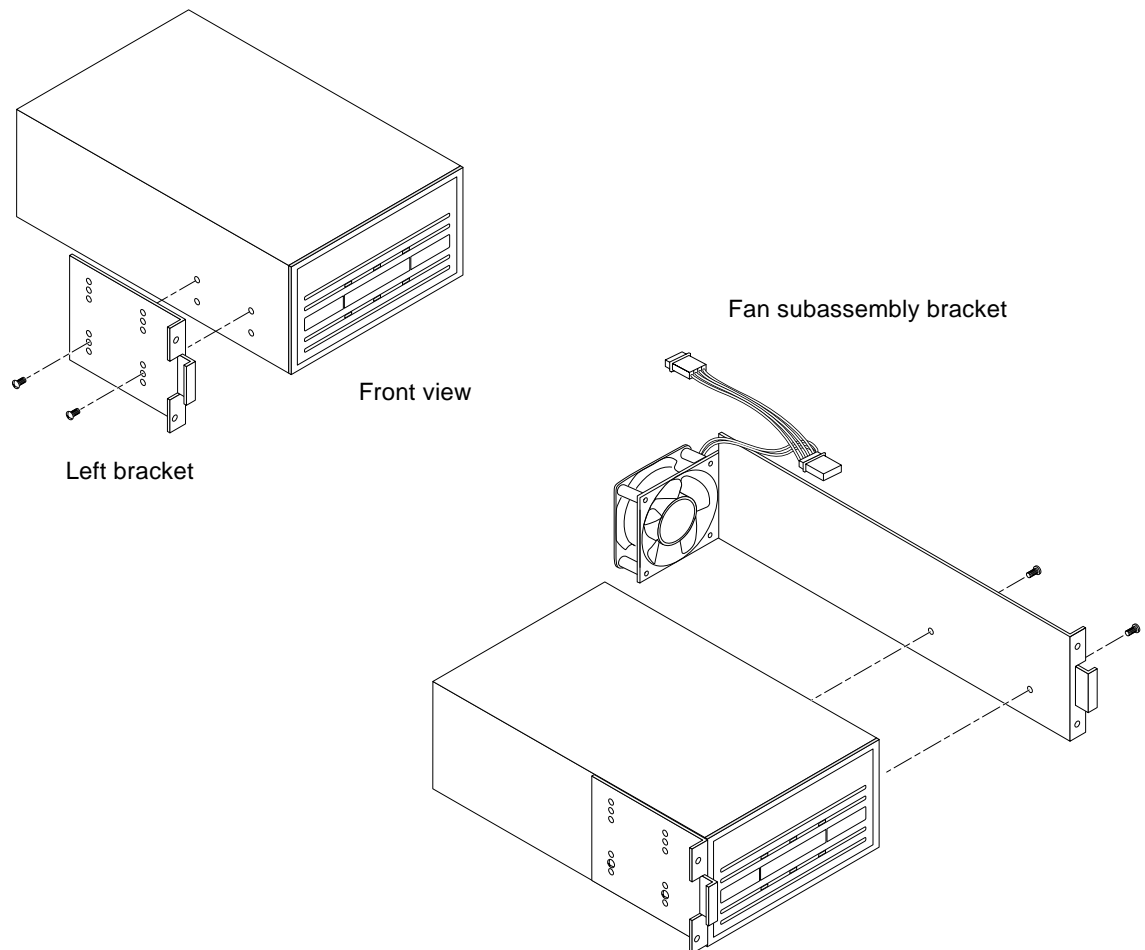**2. Attach the bracket to the auto-loader using two M3 screws. See Figure 2.**

Front view

Left bracket

Fan subassembly bracket

Figure 2   Mounting Brackets

Connecting the Fan Power Cable

A hardwired power cable extends from the fan. To connect the fan:

1. **Plug one end of the fan power cable (J1) into the auto-loader power connector.**
   The power connector is at the rear. See Figure 3.

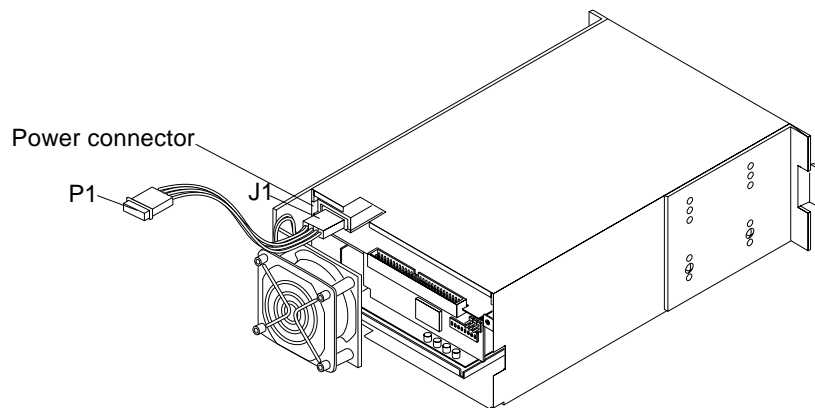2. **Connect the other end of the fan power cable (P1) to the SCSI power cable in the SCSI tray.**

Figure 3   Power Connector on the Auto-Loader (Rear View)

Note – Refer to the installation or service manual that came with the system for instructions on connecting cables and installing the unit back in the SCSI tray.

Replacing the Fan

The fan attached to the fan subassembly bracket is a field replaceable unit (FRU) part. To order a replacement, contact your Sun representative and request FRU part number **F540-2606-xx**.

To remove and replace the fan, first detach the fan subassembly bracket from the auto-loader.

Removing the Fan Subassembly Bracket

> **Note** – If the auto-loader is installed in a SCSI tray, refer to the installation or service manual that came with the system for instructions on removing the auto-loader and disconnecting cables.

1. **Place the auto-loader on a work surface.**

2. **Remove the two M3 screws that attach the fan subassembly bracket to the auto-loader.**
   Use a 5 mm hex-head socket.

Replacing the Fan and Bracket

1. **Remove the two M4 screws holding the fan and finger guard in place.**
   Save the screws for use when you install the replacement fan.

2. **Position the FRU fan so that the cable extends from the top left side.**
   The fan is positioned properly when the two airflow arrows on the top right side point to the right and to the rear, away from the auto-loader (the label on the fan will also face the rear).

3. **Attach the fan and finger guard to the bracket using the two screws removed in step 1.**

4. **Align the fan subassembly bracket along the right side of the auto-loader.**
   The fan will be at the rear of the auto-loader when the bracket is properly aligned.

5. **Attach the bracket using the two M3 screws set aside earlier.**

6. **Connect the fan power cable to the auto-loader and reinstall the unit in the SCSI tray.**
   See "Connecting the Fan Power Cable" on page 5.

> **Note** – Refer to the installation or service manual that came with the system for instructions on connecting cables and installing the unit in the SCSI tray.