

Sun™ StorEdge™ L3500 Unpacking Instructions



THE NETWORK IS THE COMPUTER™

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Sun™ StorEdge™ L3500 Unpacking Instructions

These instructions explain how to unpack a StorEdge L3500 cabinet correctly and move it to the final installation site.

The materials in which the StorEdge L3500 is packaged are designed to protect it from damage during transit. Follow these instructions to ensure that the library remains protected as you remove the packing materials and prepare the library for installation.

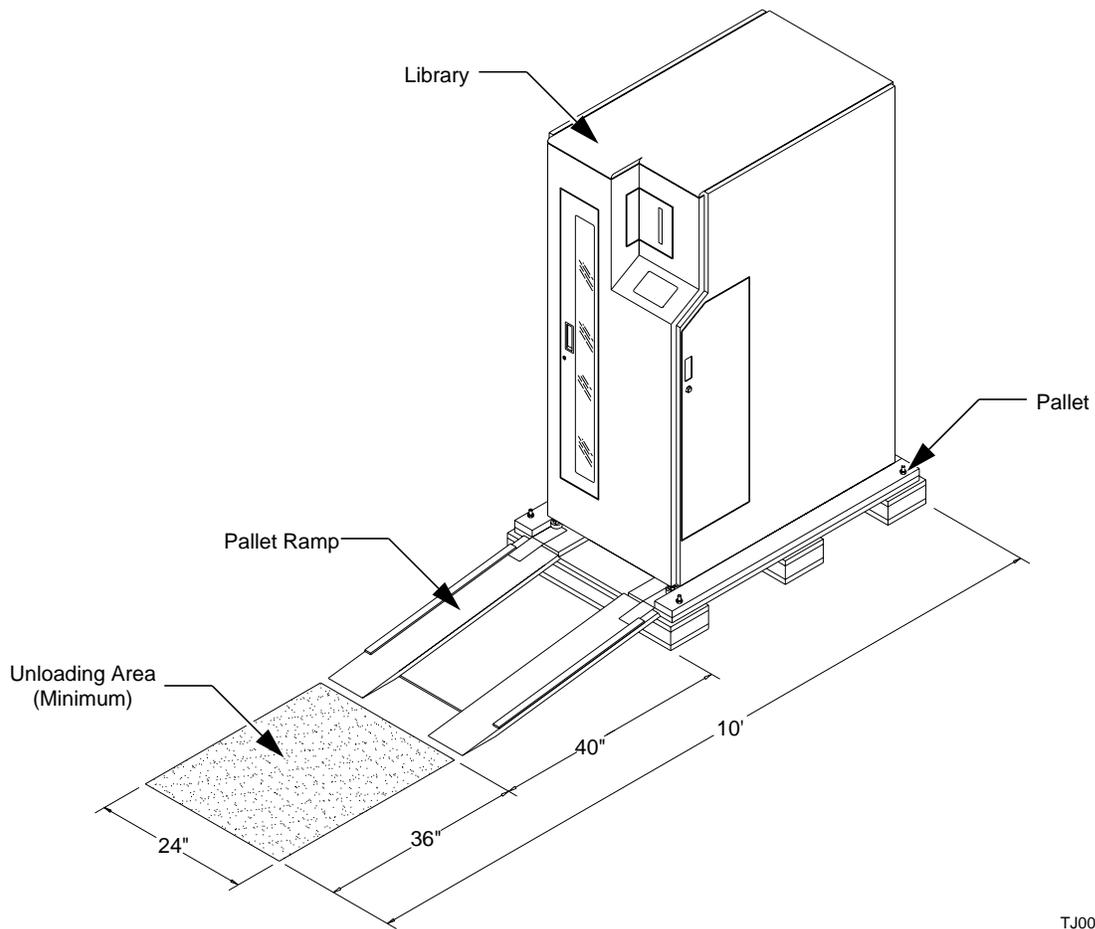
These instructions consist of the following procedures:

- Receiving the library—page 2
- Unpacking the library—page 3
- Rolling the library off the pallet—page 7
- Moving the library to the installation site—page 7
- Removing the internal packing materials—page 8
- Storing the packing materials—page 14

In addition, this document includes information about relocating the library (see page 15).

Receiving the Library

Unload the crated library as close to the final installation site as possible. Allow about 6 feet in front of the off-load side of the pallet to ensure that there is enough space to place the ramp (see FIGURE 1).



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FIGURE 1 Library Unloading Space Requirements

If the crate appears to have been damaged during shipment, report the damage to the shipper immediately.

Unpacking the Library



Caution – Use care when cutting the steel bands that secure the library and packing material to the pallet. These bands are under tension and will snap away when cut.

1. Cut the two steel bands that secure the library to the pallet (see FIGURE 2).

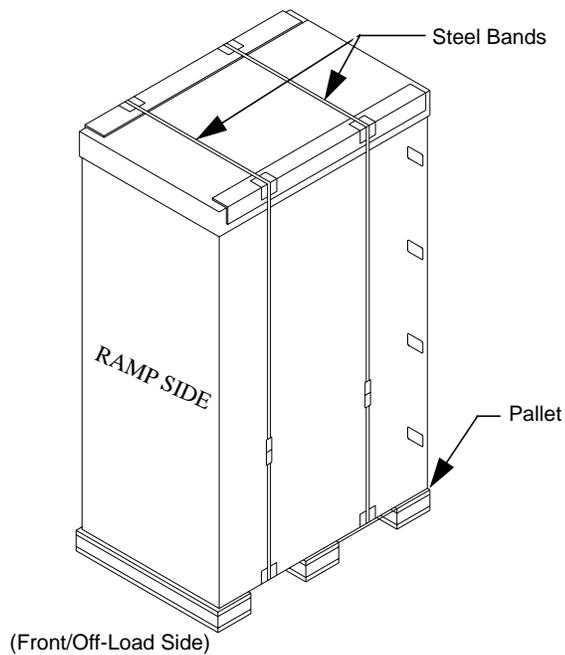
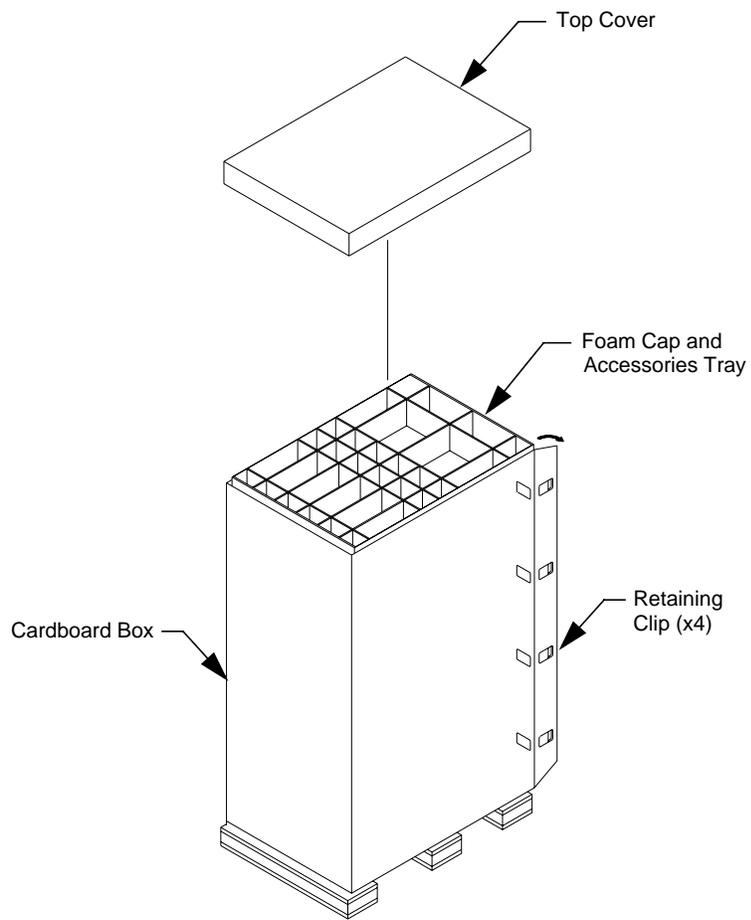


FIGURE 2 Locating the Steel Bands

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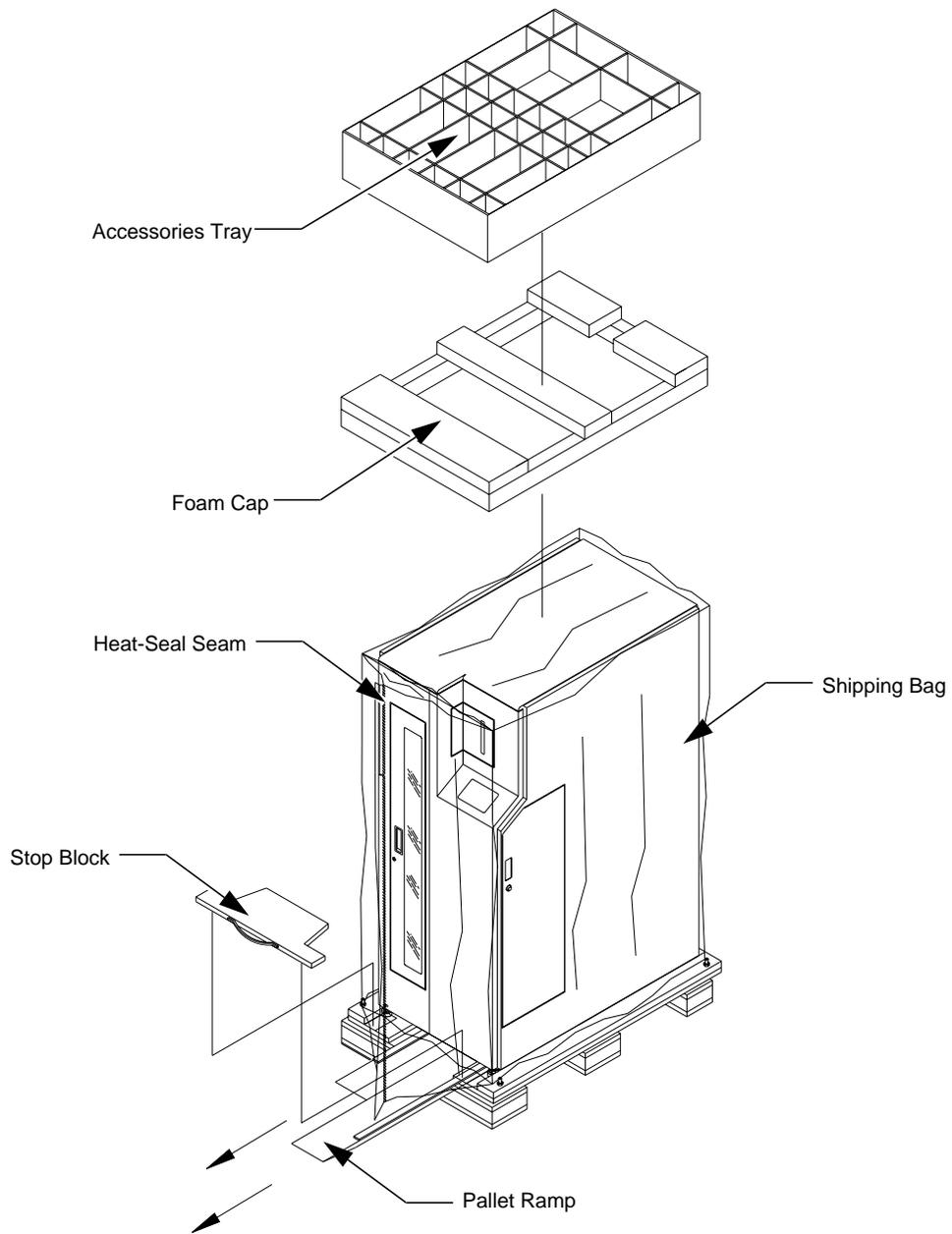
2. Lift the cardboard box top cover straight up and off the pallet (see FIGURE 3).
3. Open the four retaining clips on the back of the cardboard box.
4. Remove the cardboard box from the library.



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FIGURE 3 Removing the Box from the Pallet

- 5. Lift the foam cap up and off of the library (see FIGURE 4).**
- 6. Remove the accessories tray from the top of the foam cap.**



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FIGURE 4 Unpacking the Library

7. Verify that you have received all of the accessories listed in the following table:

TABLE 1 Shipping List

Quantity	Item
1	StorEdge L3500 library base unit (crated with ramp)
1	Accessories Kit with the following items: <ul style="list-style-type: none">(1) <i>StorEdge L3500 Facilities Planning and Installation Guide</i>(1) <i>StorEdge L3500 Operator's Guide</i>(1) <i>Control Panel Password Instructions</i>(1) <i>StorEdge L3500 Accessory Kit Contents List</i>(1) <i>Sun Media Card</i>(1) <i>CD Kit</i>(1) AC power cord (US)(1) Power cord retainer kit(264) data cartridge labels (in AAAnnn format)(33) cleaning cartridge labels (in CLNnnn format)(7) DLTtape IV(1) DLT cleaning cartridge(1) DB9 male to female cable(4) SCSI cable assemblies (4 meter)(4) SCSI terminators

8. Remove the stop block.

The stop block is located under the library in front of the casters.

9. Slide the two pallet ramp sections forward and secure them to the pallet using the Velcro straps.

10. Open the shipping bag carefully by cutting along the vertical heat-seal seam.

11. Inspect the library for damage that may have occurred during shipment.

Report any damage to the shipper immediately.

Rolling the Library Off the Pallet

To remove the library from the pallet:

1. **Verify that all leveling feet are fully retracted (in the up position). If not, use a 3/4-inch (19 mm) wrench to rotate each of the four feet clockwise until fully retracted.**

The leveling feet are located on the underside of the library at each of the four corners.

2. **While a second person guides the library at the off-load side of the pallet, gently push the library down the ramp and onto the floor.**
3. **Carefully fold and save the shipping bag.**

This bag will be required to package the library for reshipment.

Moving the Library to the Final Installation Site



Caution – The library weighs approximately 500 pounds. Two people should perform the following procedure.

To move the StorEdge L3500 library to the final installation site:

1. **Prepare the path to the final installation site.**

The library has a nominal floor clearance of 0.75" (1.9 cm). Use plastic or rubber mats to roll the library over thick carpeting, floor cracks, or door jambs.



Caution – Do not push on the following nonstructural components: the load port door, the control panel, the front and side doors, the door handles, the back panel connectors, and the back panel intake filter bezel.

2. **Roll the library to the final installation site.**

While you can push the library from any side, we recommend that you push from the front of the library.

Removing the Internal Packing Materials

Once the library is in the final installation site, you must remove the internal packing materials.

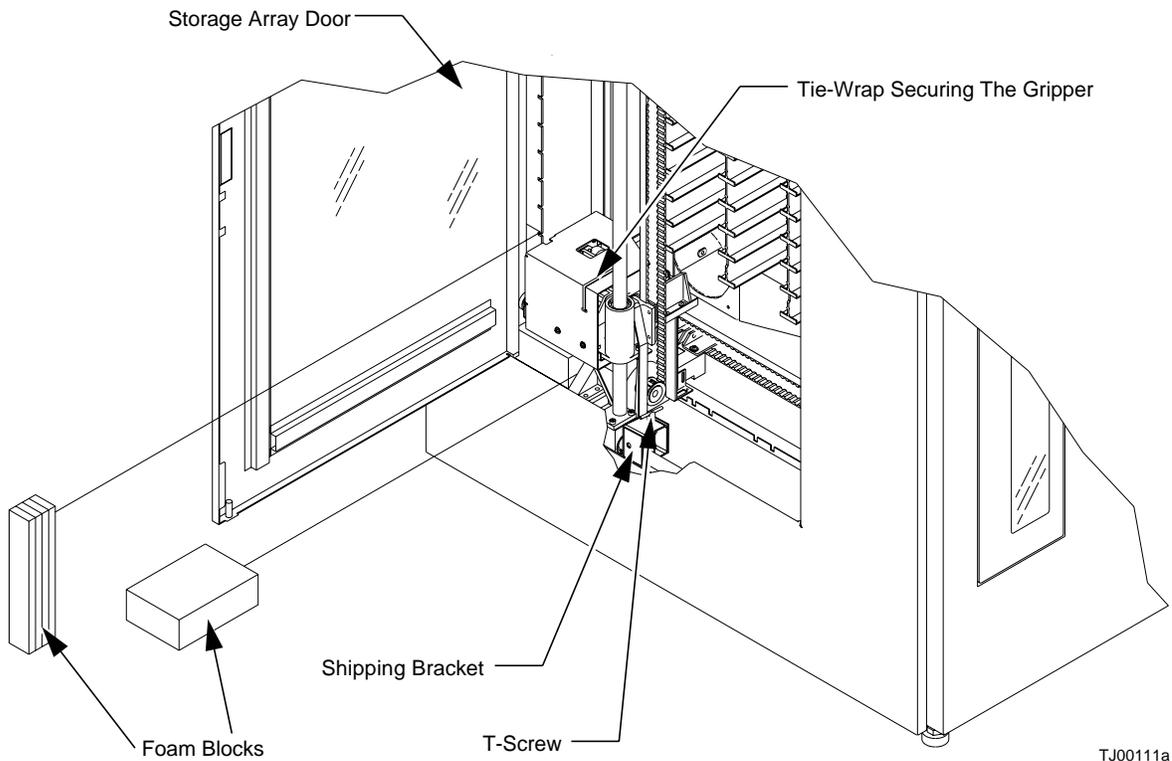
▼ Removing the Robotics Packing Materials



Caution – Make sure the library is at its final installation site before removing the robotics packing materials. Do not move the library a significant distance without replacing the robotics packing materials and securing the robotics.

Note – Retain all of the internal packing materials for future use. You will need them in case it becomes necessary to move the library.

1. **Open the load port door.**
2. **Remove the foam sheet and set it aside for future use.**
3. **Close the load port door.**
4. **Unlock and open the drive access door.**
The library door keys are packaged in the Accessories Kit provided with the library.
5. **Remove the foam sheet from the drive access door and set it aside for future use.**
6. **Repeat steps 4 and 5 to remove the foam sheets from the front door and the storage array door.**
7. **Remove the tie-wrap securing the gripper (see FIGURE 5).**
Set the tie-wrap aside for future use.
8. **Remove the T-screw securing the shipping bracket to the floor of the unit (see FIGURE 5).**
Set the T-screw aside (you will need it for step 10).



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FIGURE 5 The Internal Packing Materials

- 9. Lift the shipping bracket up and off of the extension axis assembly.**
- 10. Secure the shipping bracket to the inside wall of the unit (see FIGURE 6 on page 11):**
 - a. Locate the three springs on the inside wall of the unit.**
These springs are designed to secure the shipping bracket and packing blocks when they are not being used.
 - b. Turn the shipping bracket upside down, so the strap portion of the shipping bracket is pointing downward.**
 - c. Slide the shipping bracket under the upper spring on the inside of the unit.**
The strap portion of the shipping bracket should be below the spring, and the block portion of the shipping bracket should rest above the spring.
 - d. Secure the shipping bracket to the wall, using the T-screw you removed in step 8.**

- 11. Carefully lift the extension axis platform and remove the foam block from between the extension axis platform and the horizontal axis carriage.**
- 12. Slowly lower the extension axis to its lowest (resting) position.**
- 13. Carefully slide the carriage assembly to the right and remove the foam block from between the horizontal axis carriage and the library frame.**
- 14. Secure the foam blocks you removed in steps 11 and 13 to the back wall of the unit (seeFIGURE 6).**
- 15. Close and lock the storage array door.**

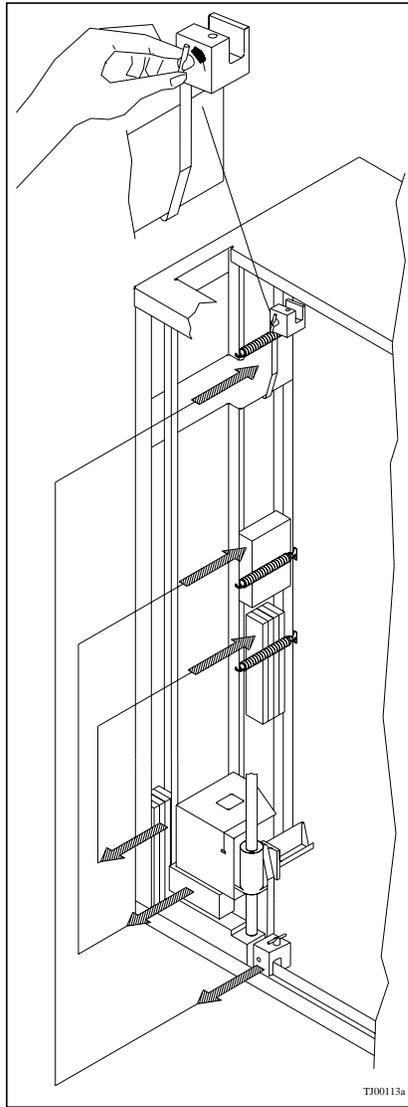


FIGURE 6 Storing the Robotics Packing Materials

Removing the Side Panel Blocks

This procedure consists of the following steps:

- removing the top panel of the library
- removing the left panel and packing block
- removing the right panel and the right panel packing block
- replacing the left, right, and top panels

You will need a #2 Phillips-head screwdriver for this procedure.

▼ Removing the Top Panel

1. Remove the two screws that secure the top panel to the rear of the library frame.
2. Slide the top panel towards the rear of the library, then lift it up and off of the library frame.
3. Set the top panel aside.

▼ Removing the Left Panel Packing Block

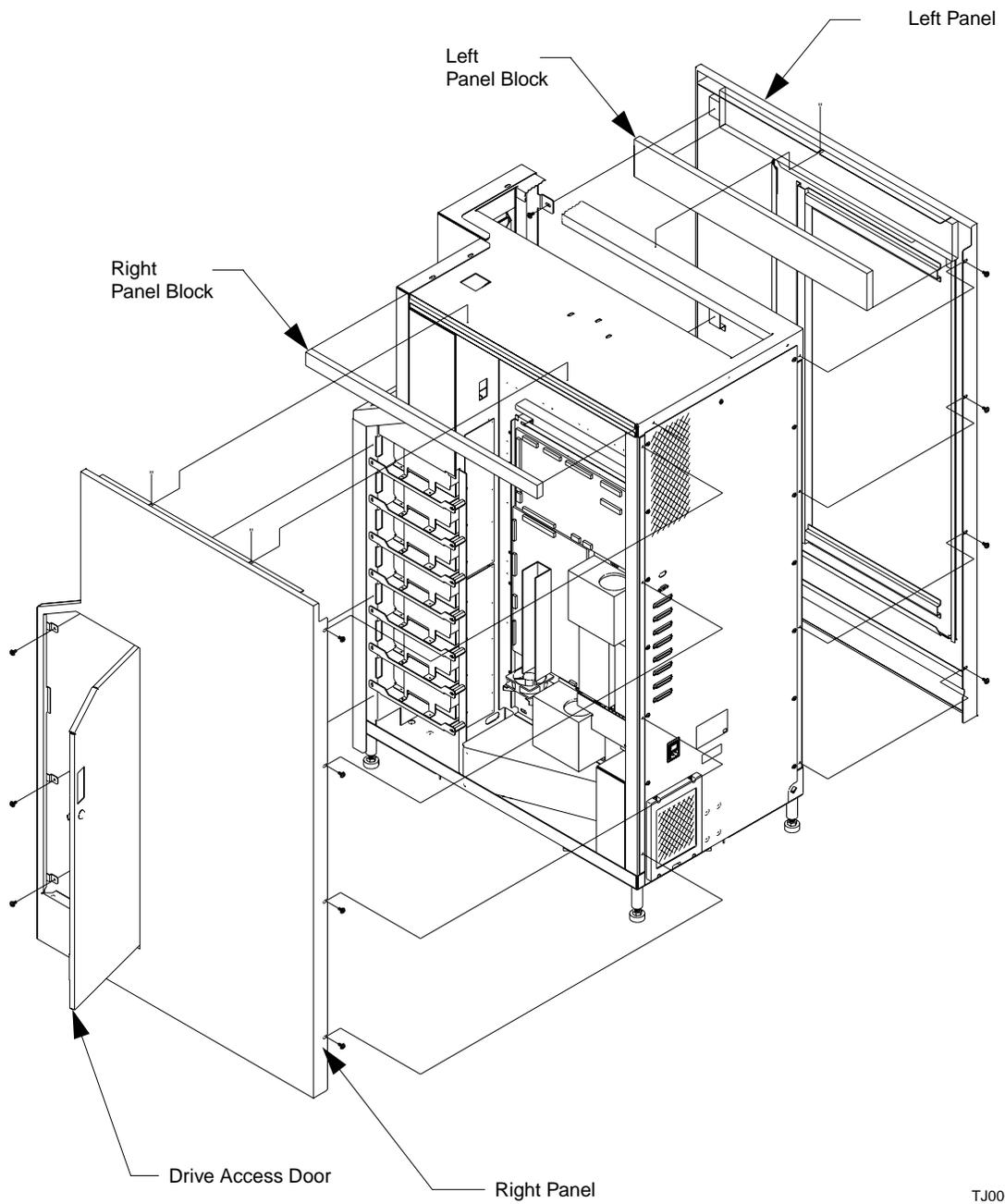
Refer to FIGURE 7 throughout this procedure.

1. Remove the four screws that secure the left panel to the rear of the library frame.
2. Open the drive access door.
3. Remove the three panel mounting screws accessible through the drive access door.
Support the panel before removing the top mounting screw.
4. Remove the screw that secures the left panel to the top of the library frame.
5. Remove the left panel from the library frame and set it aside.
6. Remove the left panel packing block.

▼ Removing the Right Panel Packing Block

Refer to FIGURE 7 throughout this procedure.

1. Remove the four screws that secure the right panel to the rear of the library frame.
Support the panel before removing the top mounting screws.
2. Remove the two screws that secure the right panel to the top of the library frame.
3. Remove the right panel from the library frame and set it aside.
4. Remove the right panel packing block.



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FIGURE 7 Removing the Side Panel Blocks

▼ Replacing the Panels

After you have removed the left and right panel packing blocks, replace the right, left and top panels (refer to FIGURE 7 on page 13).

1. **Position the right panel on the library frame and replace the two screws that secure it to the top of the frame.**
2. **Replace the four screws that secure the right panel to the rear of the library frame.**
3. **Position the left panel on the library frame and replace the screw that secures it to the top of the frame.**
4. **Open the drive access door.**
5. **Replace the three panel mounting screws.**
6. **Replace the four screws that secure the library to the rear of the library frame.**
7. **Position the top panel on the top of the library frame.**
8. **Slide the top panel towards the front of the library.**
9. **Replace the two screws that secure the top panel to the rear of the library frame.**
Retorque the panel fasteners to 24 3in lb.

Storing the Packing Materials

1. **Raise the ramp and rest it on top of the pallet.**
2. **Collapse the cardboard box.**
3. **Store the box, foam cap, pallet, and all packing material for future use.**

Relocating the Library

If it becomes necessary to move the library from its installation site, whether you are moving it down the hall or shipping it across the country, you will need to protect the library from damage.

The level of protection required depends upon how you are moving the library:

- If you are rolling the library to a nearby installation site (for example, in the same building) complete the procedures in these sections:
 - “Removing Power from the Library”
 - “Unloading the Library”
 - “Installing the Internal Packing Materials”
- If you are shipping the library, complete the following procedures in addition to those listed above:
 - “Removing the Power Cord from the Library”
 - “Moving the Library onto the Shipping Pallet”
 - “Securing the Library to the Pallet”

▼ Removing Power from the Library

1. **Unload and eject any tapes in the tape drives.**
2. **Turn off the library by setting the power switch to the O (off) position.**
3. **Disconnect all SCSI cables from the back of the library.**

Leave the power cord connected.



Caution – Do not disconnect the power cord from the library or the grounded power source unless instructed to do so. While plugged in, the power cord grounds the library chassis and helps prevent electrostatic discharge (ESD) damage.

▼ Unloading the Library

1. **Unlock and open the storage array door.**
2. **Remove all tapes from the fixed storage array bins.**
3. **Remove any tapes in the load port bins.**
4. **Remove any ejected tapes from the tape drives.**

▼ Installing the Internal Packing Materials

For this procedure, you will need the following internal packing materials:

- Shipping bracket and two foam blocks—these materials should be stored within the unit. They work together to secure the robotics.
- Four foam sheets—these sheets prevent the library doors from moving during shipment.

▼ Securing the Robotics

1. **Unlock and open the storage array door.**
2. **Remove the shipping bracket and foam blocks from their storage positions within the unit (see FIGURE 6 on page 11).**
3. **Gently push the carriage assembly forward.**
4. **Place the smaller of the two foam blocks between the vertical axis carriage and the library frame.**
Refer to FIGURE 5 on page 9 for the proper placement of the foam block.
5. **While gently lifting the extension axis, place the other foam block between the extension axis platform and the horizontal axis carriage.**
Refer to FIGURE 5 on page 9 for the proper placement of the foam block.
6. **Remove the T-screw from the shipping bracket.**
7. **Place the hooked end of the shipping bracket over the extension axis assembly and carefully lower the assembly to its bottom (resting) position.**
8. **Slide the horizontal axis carriage to the left until the pins on the shipping bracket are aligned with the holes on the floor of the unit.**

9. **Secure the shipping bracket to the floor of the unit, using the T-screw you removed in step 6. Hand-tighten the T-screw.**

Refer to FIGURE 5 on page 9 for the proper placement of the shipping bracket. The horizontal axis carriage should be pressed firmly against the frame of the library, cushioned by a foam block. The extension axis assembly should be secured in its lowest position, cushioned by another foam block.

10. **Retract the extension axis/gripper assembly.**
11. **Replace the tie-wrap securing the gripper by threading it through the slots in the ESD guard and around the gripper motor.**

▼ Securing the Library Doors

1. **Open the load port door.**
2. **Insert a foam sheet between the door and the door jamb.**
3. **Close the load port door.**
4. **Unlock and open the storage array door, if it is not already open.**
5. **Insert a foam sheet between the door and the door jamb.**
6. **Close and lock the storage array door.**
7. **Repeat steps 4 through 6 for both the front door and the drive access door.**



Caution – After installing the foam sheets, make sure the doors will not rattle when the library is moved. If necessary, remove the foam sheet, fold it to a greater thickness, and reinsert it between the door and the door jamb.

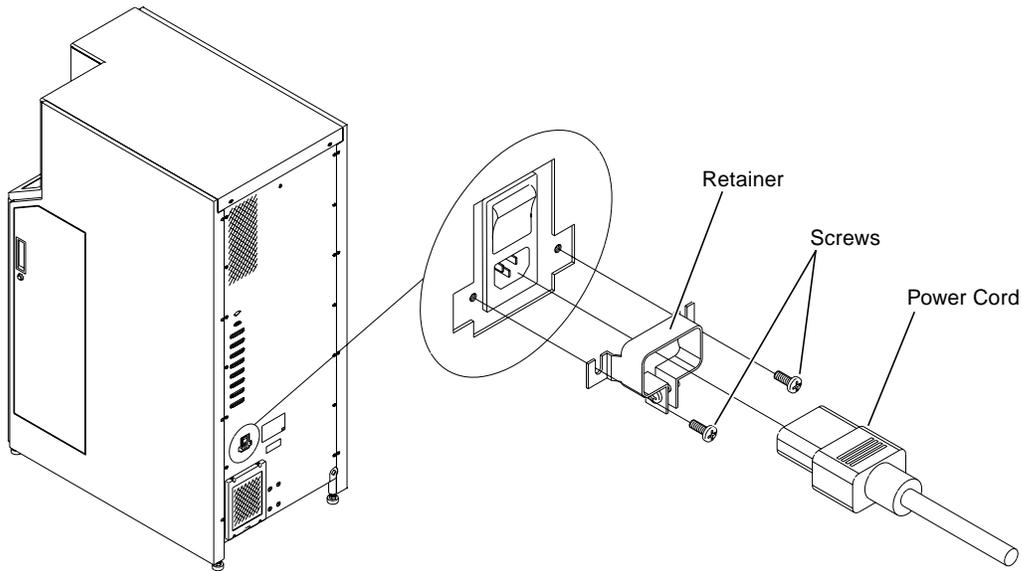
Make sure the library doors are locked before moving the library.

Note – The library is now sufficiently protected for a short move. If you are planning to move it to a nearby installation site, skip the rest of the procedures in this section and continue with “Moving the Library to the Final Installation Site” on page 7.

If you are planning to ship the library to another location, complete the procedures in “Removing the Power Cord from the Library,” “Moving the Library onto the Shipping Pallet,” and “Securing the Library to the Pallet” to finish packing the library.

▼ Removing the Power Cord from the Library

1. Remove the library power cord from the power outlet.
2. Remove the two screws securing the power cord retainer to the rear of the library and set them aside (see FIGURE 8).
3. Remove the power cord (with retainer attached) from the rear of the library.
4. Place the power cord and screws in the accessories tray.



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FIGURE 8 Removing the Power Cord Retainer

▼ Moving the Library onto the Shipping Pallet

1. **Raise the leveling feet by rotating each foot clockwise until fully retracted.**
2. **Position the pallet to load the library and secure the two ramp sections to the pallet using the Velcro strips.**
3. **Unfold the shipping bag and align the white tape to the pallet where the library casters will roll onto the pallet.**
4. **Roll the library onto the pallet and into the shipping bag.**
Observe all cautions and guidelines in “Moving the Library to the Final Installation Site” on page 7.
5. **Seal the shipping bag by folding the seam over and taping the edge.**
6. **Disconnect the ramp sections from the pallet and slide them under the library.**
7. **Install the stop block in front of the library front casters and secure it to the Velcro fasteners.**

▼ Securing the Library to the Pallet

1. **Place all accessories (cables, manuals, installation hardware, and so forth) in the accessories tray.**
You must provide separate shipping container for the tape cartridges.
2. **Place the accessories tray and foam cap on top of the library (refer to FIGURE 4 on page 5).**
3. **Wrap the cardboard box around the library and secure it using the cardboard retaining clips.**
4. **Place the cardboard top cover securely over the cardboard box.**
5. **Install steel bands to secure the library and packing material to the pallet.**
Tighten the steel bands to approximately 200 pounds of tension.
6. **Label the library for shipment.**

