Quantum PX502
Chassis Repacking Instructions

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Introduction

This document explains how to repack the Quantum PX502 library. Follow these instructions carefully to ensure the library is shipped properly.

> **Note:** All PX500 Series documentation is located on the PX500 Series Documentation CD included in the library accessory kit.

> **Caution:** This procedure requires the packing materials originally sent with the library for proper shipment. If you do not have the library packing materials, contact Quantum customer support for replacement packaging (800) 284-5101.

This procedure consists of the following steps:

- Removing the Library from the Rack
- Installing the Internal Shipping Restraints
- Packing the Library for Shipment

Removing the Library from the Rack

To remove the PX502 library from the rack:

> **Note:** You must remove all tape cartridges from the library prior to parking the library robotics for shipment.

1. Using the OCP, open the front doors, remove both tape cartridge magazines, and remove any tape cartridges from the fixed bins or FlexLink™ (refer to the *Quantum PX500 Series User's Guide* PN 81-81290 for information on OCP operation and bin locations).

   After removing the tape cartridge magazines and closing the doors, the library inventories all possible tape cartridge locations (magazines, fixed slots, Flexlink, and tape drives). This process takes several minutes.

2. From the **Library Operations** screen on the OCP, select **Park for Shipping**. The library shuts down automatically.

> **Note:** If there are tape cartridges in the library, the system will NOT park the library robotics. You must remove all tape cartridges from the system prior to parking the library robotics.

3 From the back of the library, disconnect all power, Ethernet, and SCSI cables from the library and note their locations for later reinstallation.

> **Warning:** This unit has more than one power supply cord. Disconnect all power supply cords before servicing to avoid electric shock.

4 To remove the library chassis from the rack (see figure 1):

> **Note:** Refer to the *PX502 Quick Start Guide* (PN 81-81292) for additional PX502 rack mount information.

a Loosen the captive screws securing the tape drives to the chassis and remove the tape drive(s) from the back of the library.

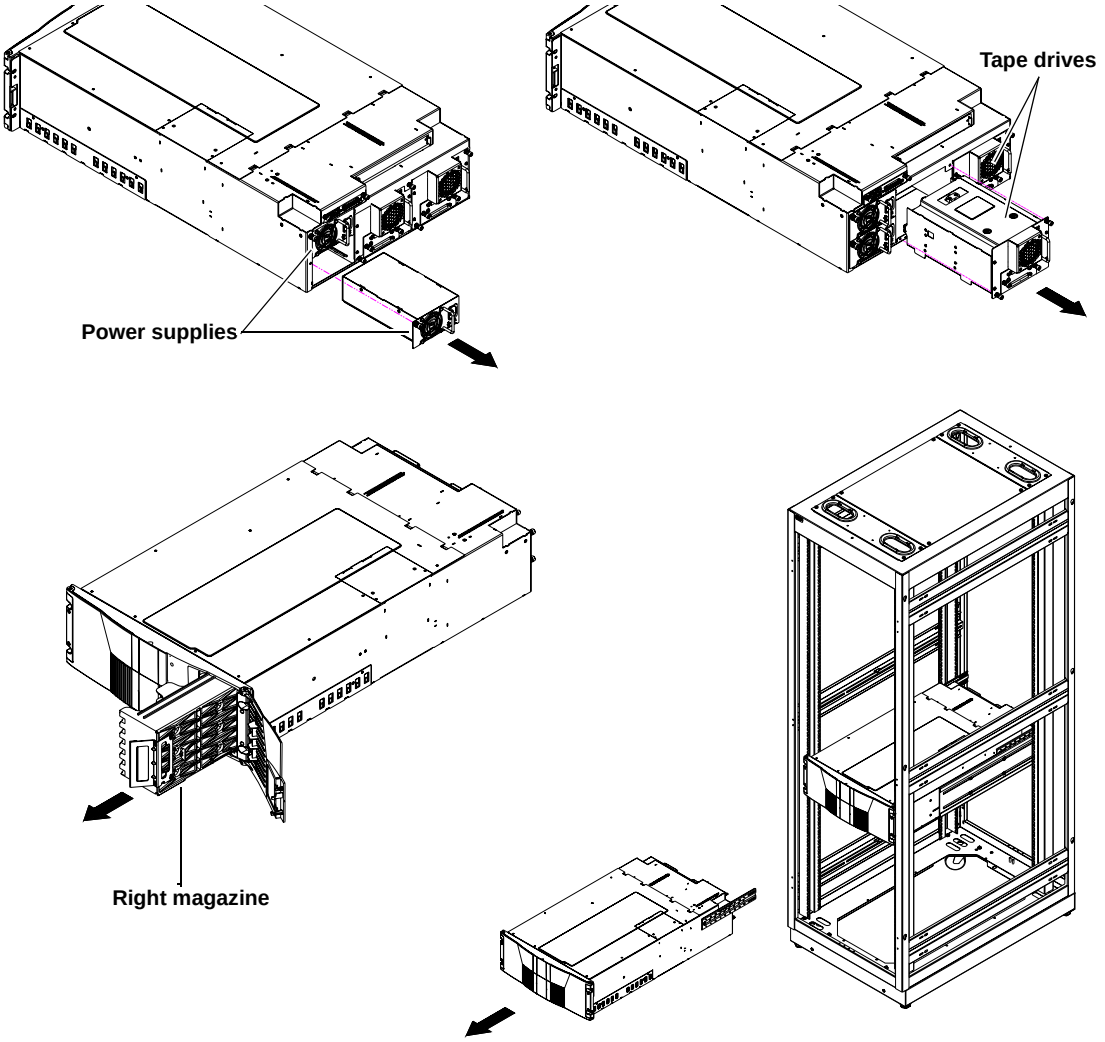
b Loosen the captive screw securing the power supplies to the chassis and remove the power supplies from the back of the library.

c Remove PHILLIPS® screws securing each side of the chassis to the rack mounting rails and remove two Allen screws securing both clamps on the back of the library.

d Remove the library from the rack.

> **Warning:** At least two people are required to move the library chassis.

Figure 1 Removing the PX502 Library



Installing the Internal Shipping Restraints

To ensure that the internal robotics within the library is not damaged, you must install the internal shipping restraints on the robotics.

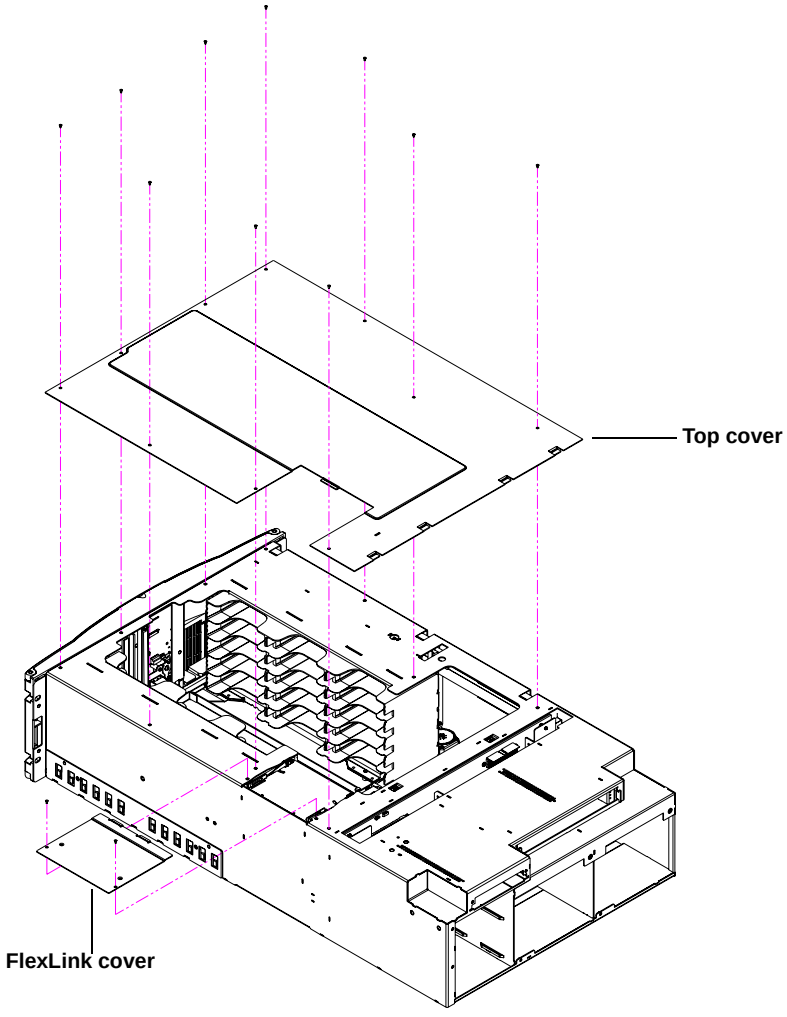
Caution: Failure to install the shipping restraints on the robotics may void your warranty.

To install the internal shipping restraints:

1. Place the library on a flat surface and remove the twelve PHILLIPS screws securing the FlexLink™ cover and top cover plate to the library chassis (see figure 2):

   Note: If the bottom FlexLink cover has been removed, replace it before shipping the library back to Quantum.

Figure 2 Removing the Top Cover

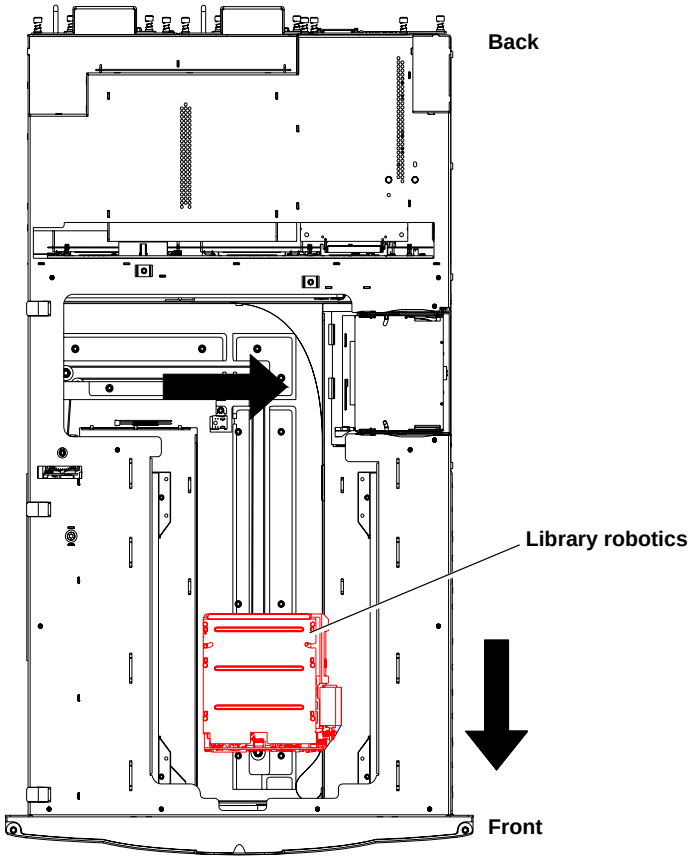


2 If the library is not operational and the **Park for Shipping** command was not executed, grasp the robotics and gently move it to the front of the library (see figure 3).

Caution: Take standard ESD precautions when working within the library chassis.

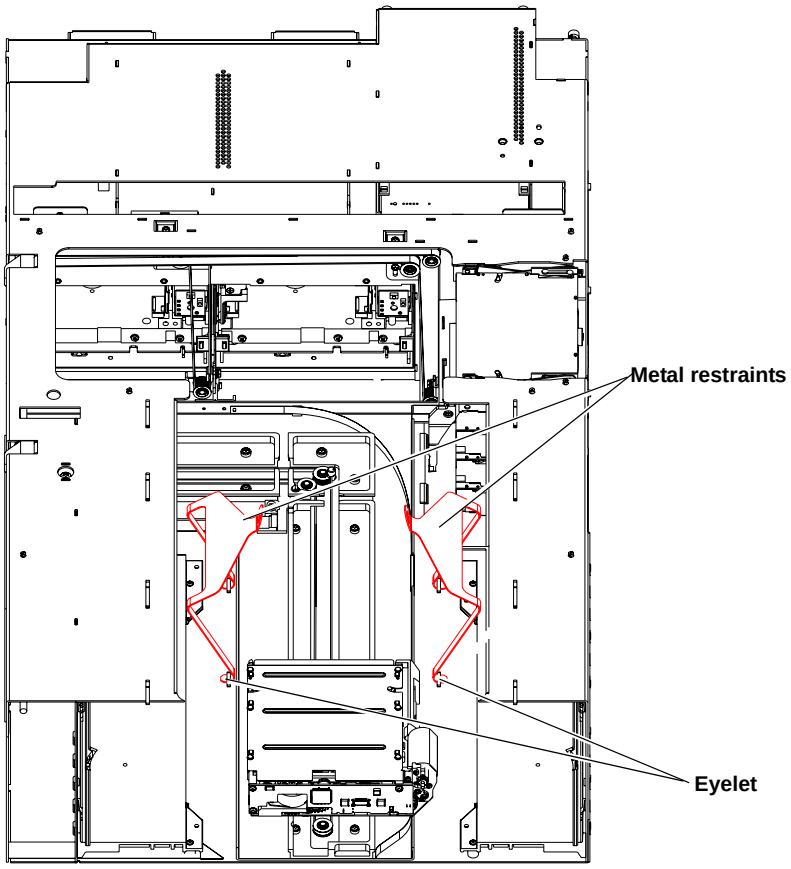
Note: If there are any cartridges in the fixed bins, you can remove them now.

Figure 3 Moving the Robotics



3 Install the metal restraints through the chassis eyelets as shown in figure 4.

Figure 4 Installing the Metal Restraints

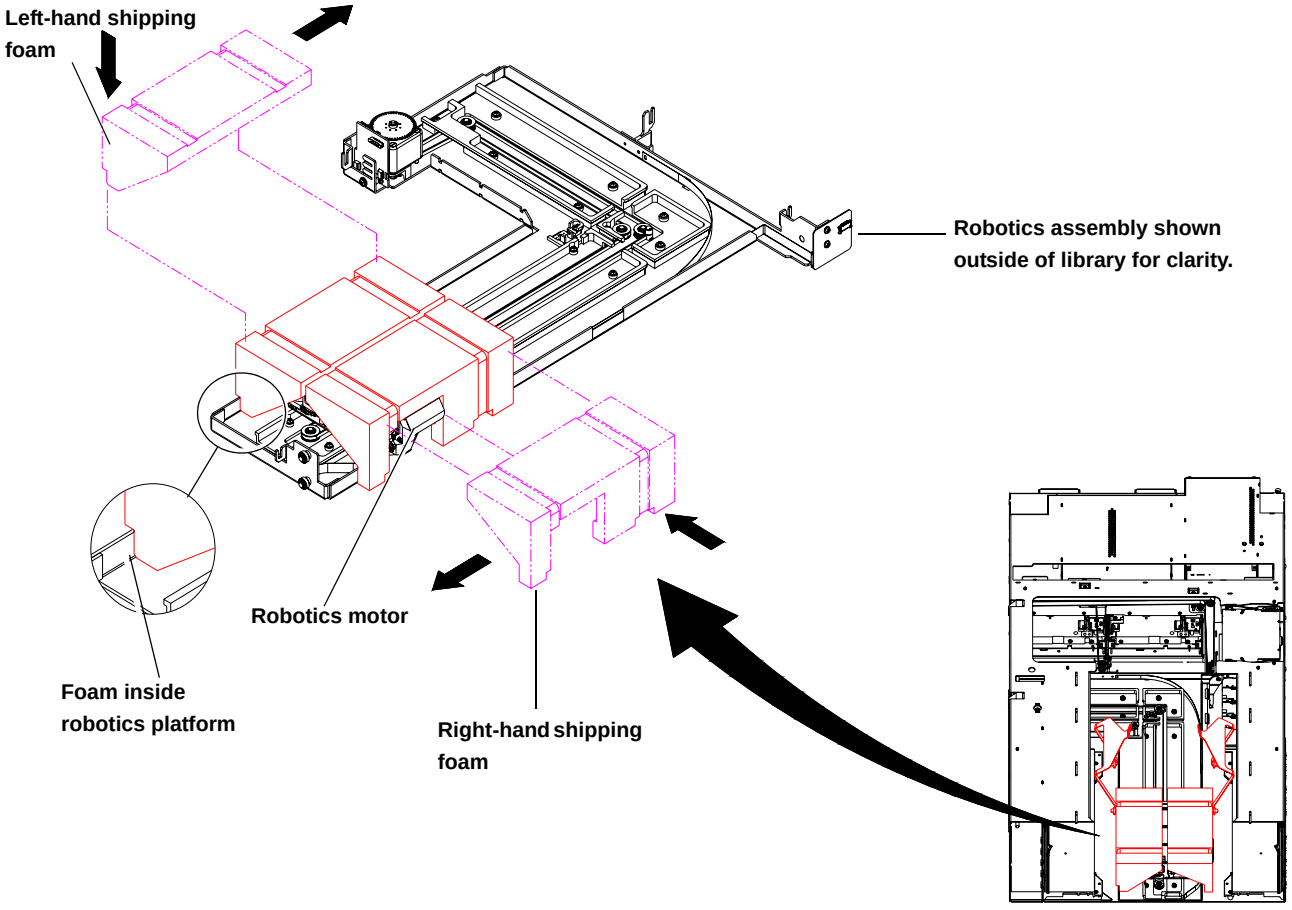


4 Install the two halves of the robotics shipping foams as shown in figure 5:

a Install the left-hand foam first so that it fits down into the robotics platform, then push towards the back of the unit until it stops.

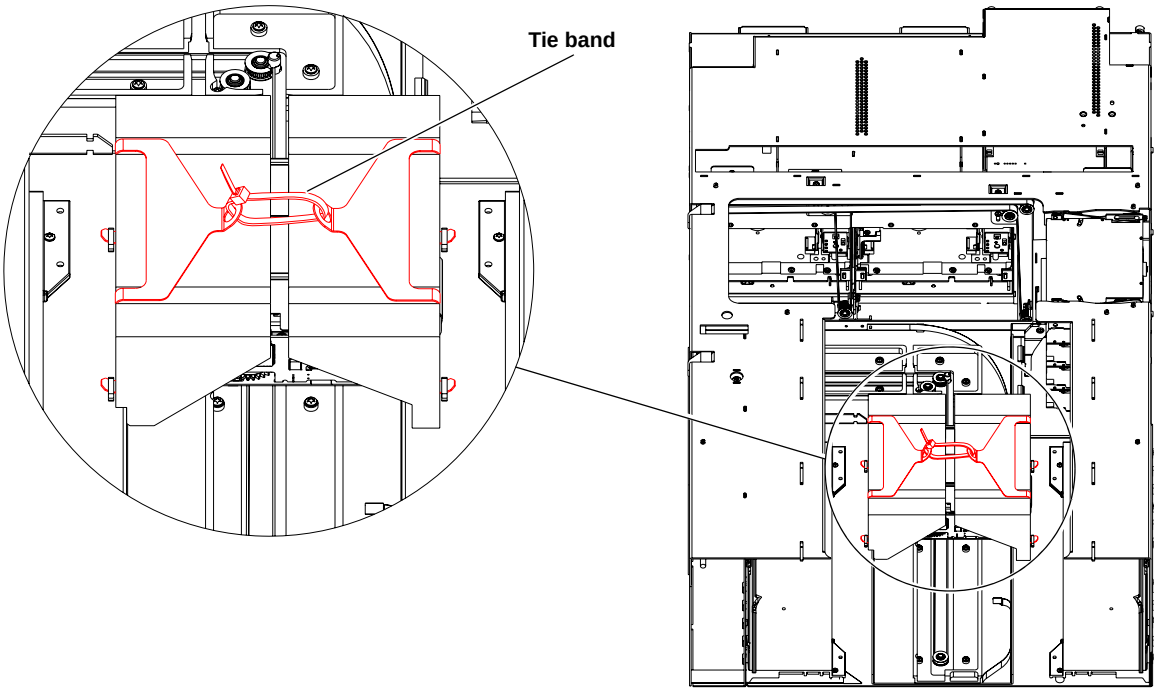
b Install the right-hand foam onto the library robotics so the motor fits into the foam opening, then push towards the front of the library until it stops.

Figure 5 Installing the Robotics Restraints



5 Slide the robotics with the shipping foams under the metal restraints so the metal bands fall into the restraint cutouts. Clamp the two halves of the metal restraints together and secure with a tie band to secure the robotics to the library chassis (see figure 6).

Figure 6 Securing the Robotics



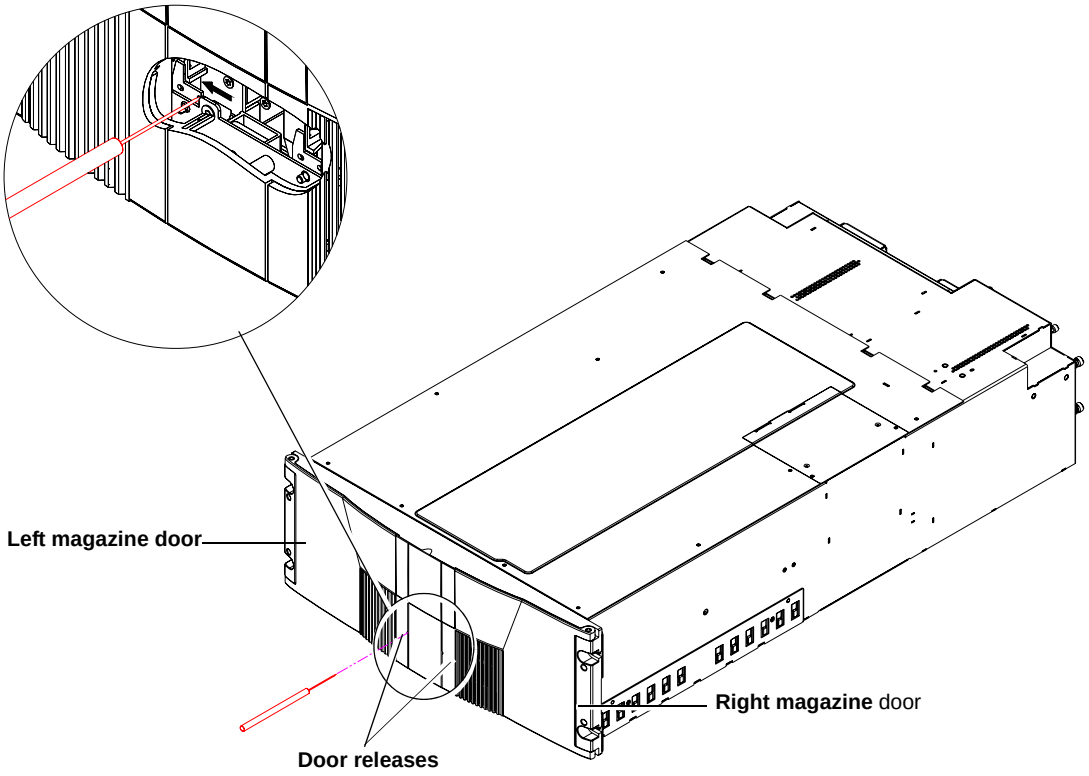
6 Install the top covers previously removed in step 1.

7 Install the tape drives, and power supplies previously removed in Removing the Library from the Rack.

8 To install the tape magazines, insert the metal pick included with the accessory kit into the release holes and trip the magazine door release for both the right and left magazine doors (see figure 7).

The magazine access doors open.

Figure 7 Opening the Right and Left Magazine Access Doors



9 Install the tape cartridge magazines.

Packing the Library for Shipment

1 Package the library into the shipping carton as shown in figure 8. Ensure that the library chassis is placed in an antistatic bag before placing the library in the shipping carton.

Warning:	At least two people are required to move the library chassis.

Caution:	Lift the library chassis at the sides. Avoid putting the weight of the library chassis on the front bezel.

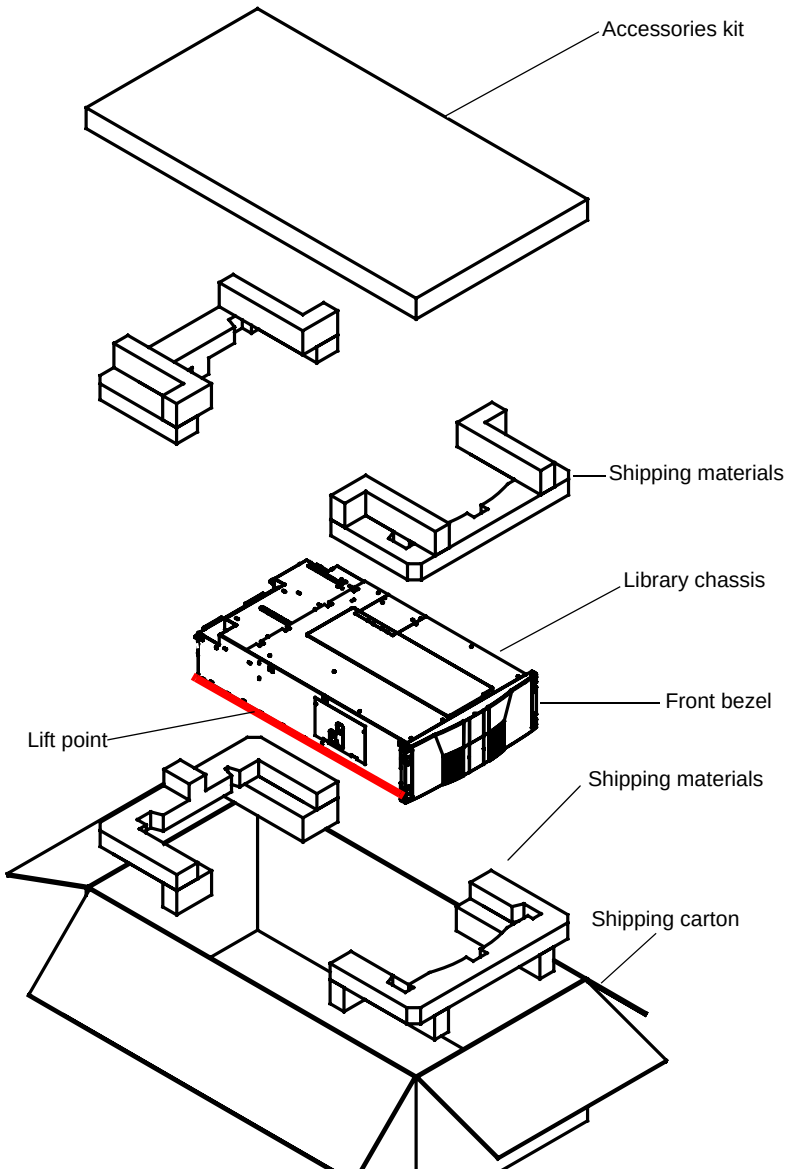


Figure 8 Preparing the Library for Shipping