



# Spectra T120 Library

## Rack Mounting Instructions



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## Part Number

90950028 Revision A

## Revision History

| Revision | Date     | Description     |
|----------|----------|-----------------|
| A        | May 2015 | Initial release |

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# RACK MOUNTING INSTRUCTIONS








This document provides instructions on how to install the Spectra® T120 library in a standard 19-inch, four post rack.

**Time Estimate** The procedure takes approximately 30 minutes.

## Gather Tools and Supplies

You must have the following to complete this procedure:

- #2 Phillips screwdriver
- An adjustable, or #10 metric wrench
- A tape measure
- A small level
- The library key
- The rack mount kit that shipped with the library, which includes:

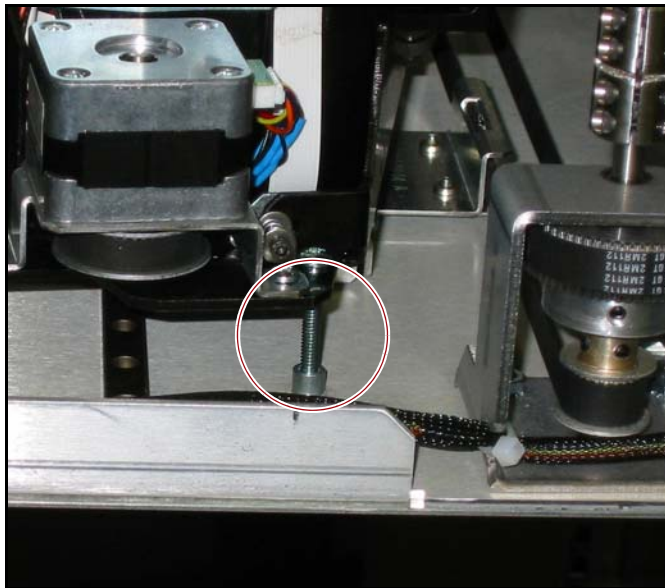
| QTY | Description             | Part  |
|-----|-------------------------|---|
| 2   | Rails                   |   |
| 2   | Extension brackets      |   |
| 2   | Slider rails            |   |
| 22  | 10-32 clip-on nuts      |  |
| 8   | 10-32 nuts              |  |
| 31  | 10-32 x 1/2-inch screws |  |
| 8   | Countersink screws      |  |

## Moving the Library

If your T120 library is already installed in a rack and you want to move it to another rack, use the instructions in this section to prepare the library.

Otherwise, skip to [Prepare the Rack on page 5](#).

1. Power off the library as described in the *T120 User Guide*.
2. Using the library key, unlock and open the library front door.
3. Remove the shipping screw from the storage location, located about two inches (5 cm) in front of the shipping location show in [Figure 1](#), and install the screw in the shipping location to hold the robotic picker in place.



**Figure 1** Install the shipping screw.

4. Close the front door, and lock the door in place with the library key.
5. Disconnect all cables from the rear of the library.
6. Remove all drives from the rear of the library.

## Prepare the Rack



### Warning

The library must be installed in the rack that is delivered with the library, or if none is included, in a 19-inch (48-cm), four-post rack. A two-post rack cannot support the weight of the library. Ensure your floor has adequate structural integrity, and follow the rack manufacturer's instructions when installing and securing the rack.



### Important

The T120 library is 38 inches to 40 inches deep (96.5 cm to 101.6 cm) with drives installed. Some racks may not support this depth, while other racks with front and rear doors may be unable to close the doors after the library is installed. Check the depth of the rack before installing the library.

#### 1. Install the slider rails.

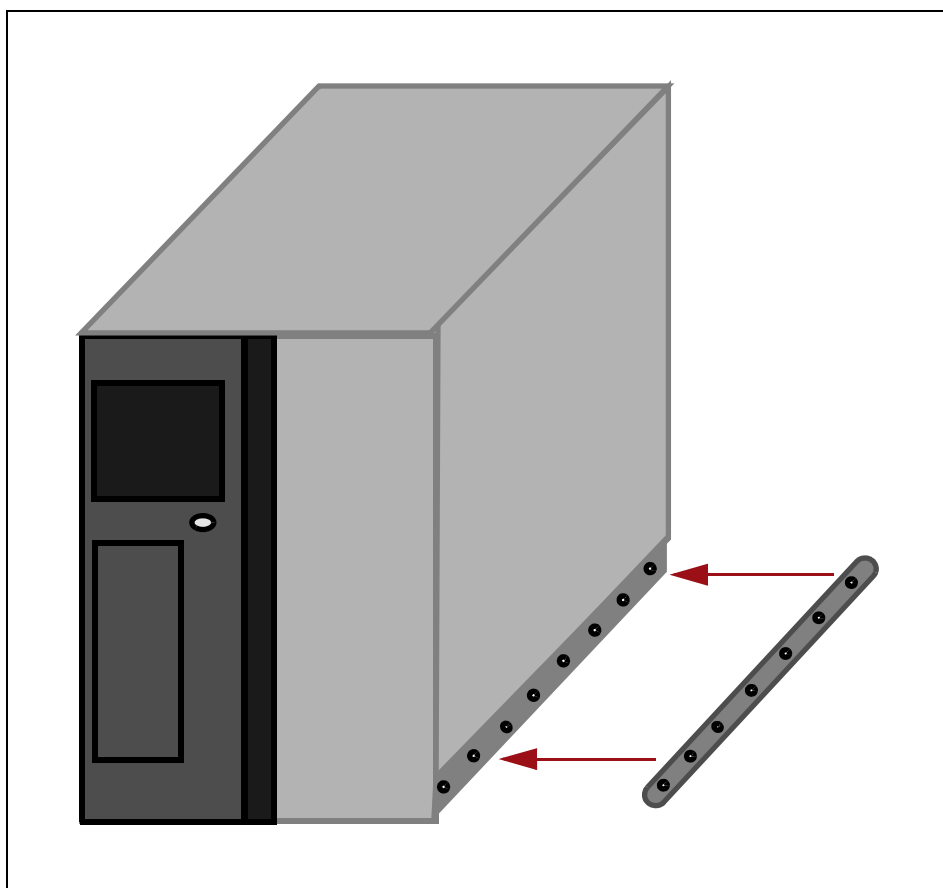
- a. Position one slider rail at the bottom of one side of the library.



### Important

There are eight holes on the bottom of the library and seven holes on the slider rail. Attach the slider rail using the holes closest to the back of the library.

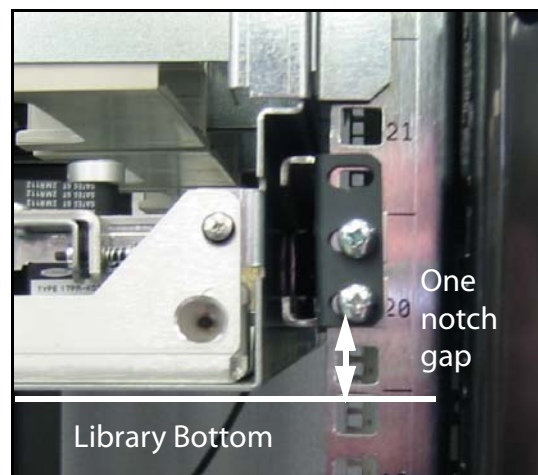
- b. Using a #2 Phillips screwdriver, attach seven 10-32 x 1/2-inch screws.
- c. Repeat [Step a](#) and [Step b](#) for the other side of the library.



**Figure 2** Attach the slider rails to the bottom of the library.

2. Assemble the outer rails.
  - a. Using the measuring tape, measure the distance between the front and rear posts of the rack.
  - b. Assemble one rail and one extension bracket at the required length, as determined in [Step a](#).
  - c. Using a #2 Phillips screwdriver and adjustable wrench, secure the rail to the extension bracket using four countersink screws, and four 10-32 nuts.
  - d. Repeat [Step b](#) through [Step c](#), using the second rail and extension bracket.
3. Attach the outer rails to the rack.
  - a. Attach eight 10-32 clip-on nuts to the four posts of the rack at the desired height. Only attach nuts for the bottom two holes of the assembled outer rails.

**Note:** The bottom of the library sits one notch below the lowest clip-on nut.



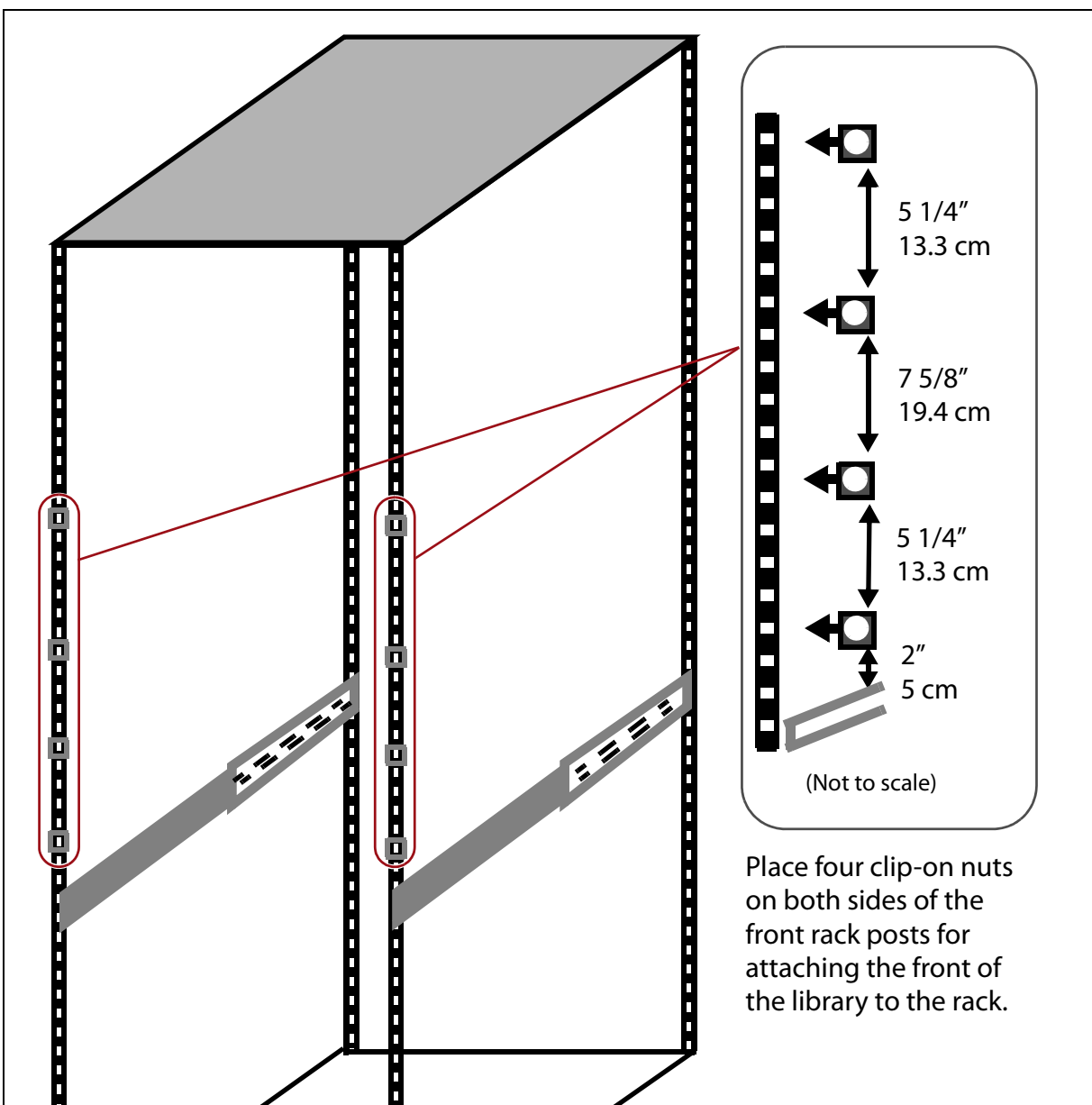
**Figure 3** One notch difference between installed rack position and resulting library position.

- b. Orient the outer rails so that the black metal end of each rail faces the front of the rack.
  - c. Using a #2 Phillips screwdriver and eight 10-32 x 1/2-inch screws, secure the assembled outer rails to the clip-on nuts you attached in [Step a](#).
4. Using a level, make sure both outer rails are level.

5. Attach four clip-on nuts on both sides of the front rack posts for securing the front of the library to the rack.

**Note:** The clip-on nuts cannot be installed after the library is in the rack.

- a. Install the first clip-on nut 2 inches (5 cm) above the top of the installed outer rail.
- b. Install the next clip-on nut 5 1/4 inches (13.3 cm) above that (measured from the center of the preceding clip-on nut).
- c. Install the next clip-on nut 7 5/8 inches (19.4 cm) above that.
- d. Install the last clip-on nut 5 1/4 inches (13.3 cm) above that.
- e. Repeat for the other side.



**Figure 4** Attach clip-on nuts to the front posts of the rack.

## Install the Library into the Rack

1. Using a lift, raise the library so that the slider rails on the sides of the library fit within the outer rails installed in the rack.

### Warning

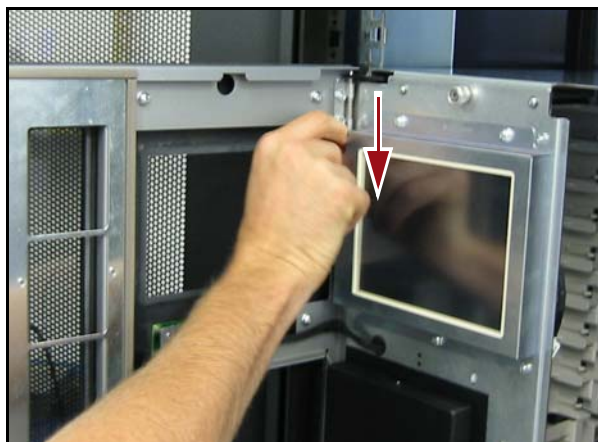
The library is heavy (see product specifications for details). Use extreme caution and proper equipment when moving the library. Do not install components in the library until it is secured in the rack.

2. Slide the library into the rack.
3. Remove the library door for access to attach the front of the library to the rack.
  - a. Use the library door key to open the front door of the library.
  - b. Disconnect the power switch cable from the power switch assembly in the front door.



**Figure 5** Disconnect the power switch cable.

- c. Locate the spring hinge on the upper left of the library door, and pull the hinge spring down.

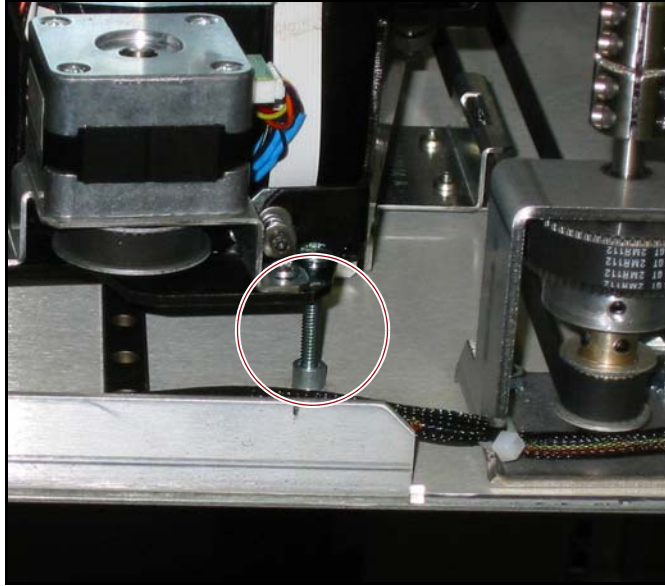


**Figure 6** Pull the upper hinge spring down.





8. Remove the shipping screw holding the robotic picker in place.



**Figure 8** Remove the shipping screw.

9. Attach the shipping screw to its storage location, located about two inches (5 cm) in front of the shipping location (not visible in [Figure 8](#)). Keep the screw here in case you need to move the library again.
10. Close and lock the front door.