



SPECTRA T200 & T380

RACKMOUNT KIT INSTALLATION GUIDE



PN 91010016 Revision A

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Spectra T200 & T380 Rackmount Kit Installation Guide
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Moving the Library

Caution: The library must be installed in a standard 19-inch rack. The rack must be located on a level, hard-surfaced floor such as cement or tile. Do not place the rack on a carpeted floor or anywhere else that poses risk for static discharge that could damage your library and its drives.

Caution: If the library is loaded with media packs (RXT media packs or media in TeraPacks), Spectra recommends that the library not be moved. If you must move the library, contact SpectraGuard Technical Support for recommendations before proceeding.

Warning: The T200 library weighs approximately 230 lb. (104 kg) and the T380 library weighs approximately 305 lb. (138 kg) without controllers, drives, and media installed. Use extreme caution when moving it.

Warnung: Die Library T200 wiegt ca. 104 kg und die Library T380 wiegt ca. 138 kg ohne Controller, Laufwerke und Medien installiert werden. Verwenden Sie extreme Vorsicht walten lassen, wenn sie abwandern.

Warning: The library is very heavy. Always use four people, two on each side, when lifting or moving the library.

Warnung: Die Library ist sehr schwer. Benutzen Sie immer vier Personen, zwei auf jeder Seite, beim Heben oder Fortbewegen der Library.

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Rackmounting the Library

These instructions describe how to install the T200 or T380 library in a standard 19-inch, four-post rack. Except where noted, the instructions are identical for both libraries.

Before You Begin

- Obtain following tools and equipment:
 - Scissors
 - #2 Phillips screwdriver, magnetic if available
 - Standard 19-inch, four-post rack for the library
 - Measuring tape (recommended)
 - Level (recommended)
 - Pallet jack (recommended for lifting the library)
- Review the information in *Prepare Your Site* on page 8.
 - Identify the location where you will install the library.
 - Make sure that the rack is assembled and placed near the AC power outlets and network connections. See *Prepare the Rack* on page 9 for additional information.
- Unpack the rack mount kit and identify the components listed in the following table.

Component	# Required	Use
 <p style="text-align: center;">Rack Shelf Assembly</p>	1	Supports the chassis in the rack. The shelf rack is pre-assembled and consists of the following components. <ul style="list-style-type: none"> • Shelf • Adjustable sliders (2)
 <p style="text-align: center;">10-32 x 1/2-inch SEM screws</p>	24	<ul style="list-style-type: none"> • Attach the shelf to the rack (16). • Secure the chassis to the rack (8).

Component	# Required	Use
 <p>Clip-nuts</p>	8	Secure the chassis to the rack.

Prepare Your Site

Refer to the *Spectra T200 & T380 Site Preparation Guide* for detailed information about site preparation and requirements. Before rackmounting the library, make sure that an appropriate rack is assembled and placed near the AC power outlets and network connections.

Caution: The rack must be located on a level, hard-surfaced floor such as cement or tile. Do not place the rack on a carpeted floor or anywhere else that poses risk for static discharge that could damage your library and its drives.

The T200 is 35 in. (89 cm) tall and occupies 20U of rack space; the T380 is 49 inches (125 cm) tall and occupies 28U of rack space. The library is designed to fit in a standard 19-inch, 4-post rack but may be too deep for some enclosed racks.

Using a 4-post rack that is at least 43 inches (110 cm) deep is recommended. A rack that allows access to the library’s side panels simplifies maintenance and service procedures and is highly recommended.

Make sure that the distance between the mounting surfaces on the front and rear posts is at least 30 inches (76 cm). Allow approximately 3 inches (8 cm) of additional depth at the back of the rack for the rear cover and cable clearance. Check your rack’s specifications to make sure it will accommodate the weight and depth of the library.

For stability, Spectra Logic recommends mounting the library at the bottom of the rack.

Note: The use of two-post “telco” racks is not supported.

Note: An enclosed 19-inch, four-post rack is available for purchase from Spectra Logic. The rack has two doors and removable side panels to provide access to the sides of the library.

If You Need Assistance

If you need assistance with any part of this procedure, contact SpectraGuard Technical Support (see *Contacting Spectra Logic* on page 4).

Rackmount the Library

Do not install the drives, QIPs, and media until *after* the library is installed in the rack.

Prepare the Rack

If you are using an enclosed rack with a front door, identify the front of the rack and make sure that there is at least 1.5 inches (3.8 cm) clearance between the front door frame and the front mounting posts (Figure 1). This clearance is needed to allow the front door to close over the library front panel. If necessary, move the front mounting posts toward the back of the rack to provide the necessary clearance.

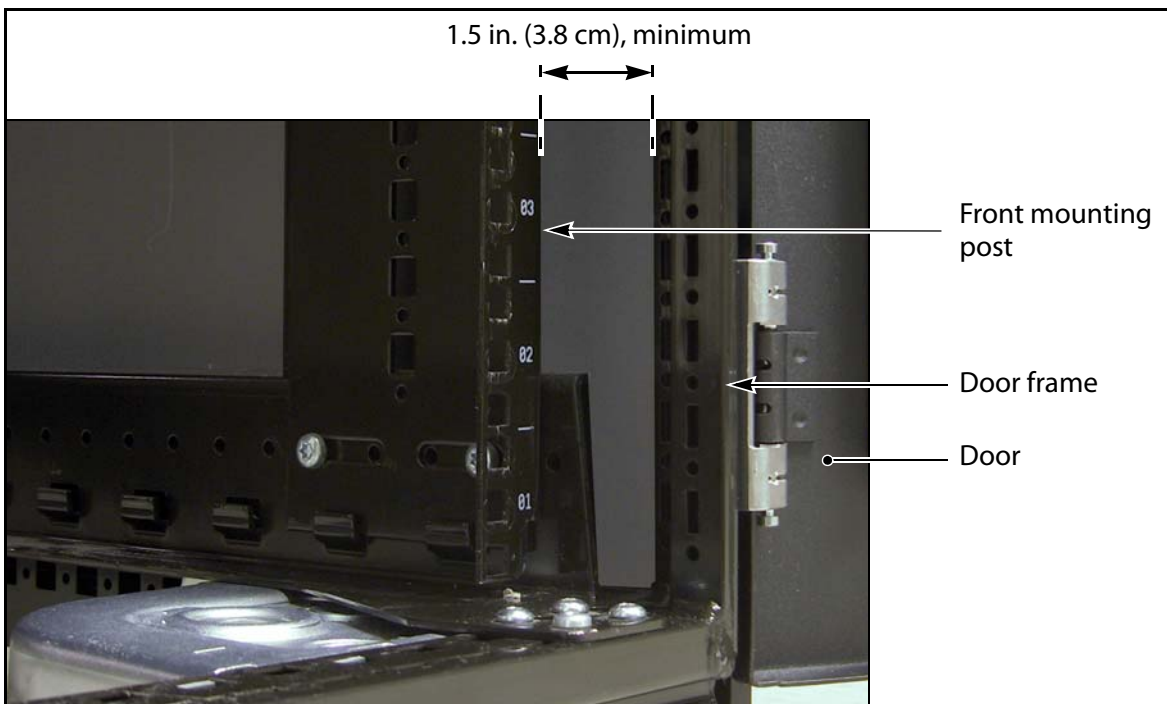


Figure 1 Ensure clearance between the rack's front door and the front posts.

Install the Rack Shelf in the Rack

1. Position the shelf inside the rack with the adjustable sliders toward the back of the rack. The mounting tabs on the front and back of the shelf should be positioned inside the rack.

Note: For stability, Spectra Logic recommends mounting the library at the bottom of the rack.

Note: You may need to hold the shelf at an angle as you move it into the rack. Using two people, one at the front of the rack and one at the back simplifies lifting the shelf assembly and positioning it in the rack.

2. Lift the front of the shelf and align the lowest hole in the front mounting tabs with the first hole above rack position 1 on each front post (Figure 2). Make sure the tabs are behind the cut-outs in the posts. Using a #2 Phillips screwdriver, install four 10-32 x 1/2-inch SEM screws in each tab to secure the shelf to the posts. Do not tighten the screws.

Note: Make sure that the two sides of the shelf are attached to the rack at the same height on all four posts. Otherwise the shelf will not be level.

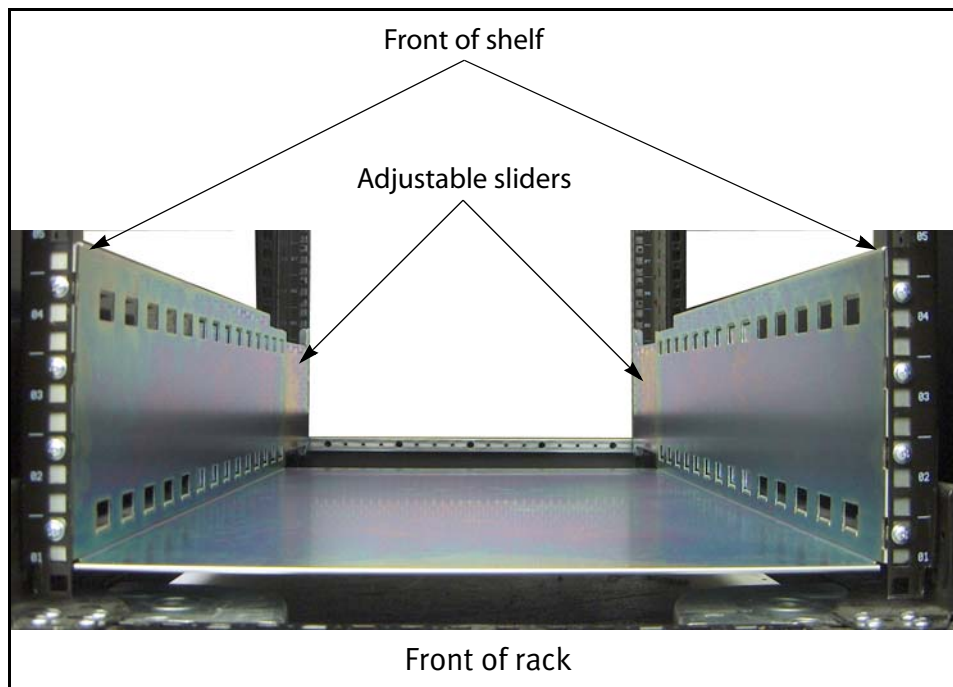


Figure 2 Position the shelf in the rack.

3. Lift the back of the shelf and adjust the sliders so that they fit against the insides of the rear posts.
4. Align the lowest hole in each of the rear mounting tabs so that the shelf is level, both from front to back and side to side. Using a #2 Phillips screwdriver, install four 10-32 x 1/2-inch SEM screws in each tab to secure the shelf to the post. Tighten all 16 screws to secure the shelf assembly to the rack posts.

Note: Use a level to ensure that the shelf is level from side to side and front to back.

Caution: Installing the shelf so that it is not level may cause operational problems for the library.

5. On the front of the rack, install the eight clip nuts, four per post, as shown in Figure 3.

Important! Install the clip nuts before you lift the library onto the shelf.

- Install one clip nut at approximately 1.8 inches (4.6 cm) above the top screw securing the shelf to the rack. Install a second clip nut at approximately 2.3 inches (5.8 cm) above the first.
- For the T200, Install one clip nut at approximately 13.5 inches (34.5 cm) above the top screw securing the shelf to the rack. Install a second clip nut at approximately 2.3 (5.8 cm) above the first.

- For the T380, install one clip nut at approximately 32.3 inches (82.0 cm) above the top screw securing the shelf to the rack. Install a second clip nut at approximately 2.3 (5.8 cm) above the first.

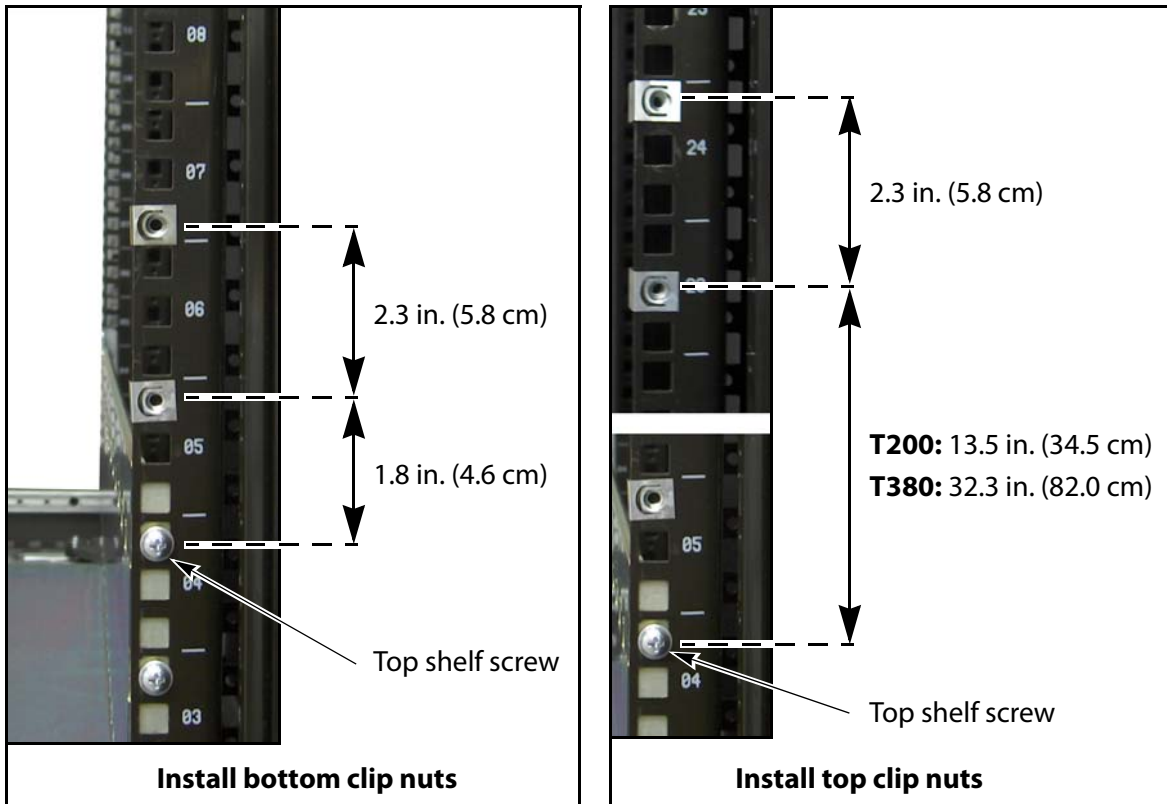


Figure 3 Install clip nut on each front post.

Remove the Library Front Panel

Before you lift the library into the rack, remove the front panel to expose the mounting ears on the front of each side of the library chassis.

1. From the front of the library, pull firmly outward on the top edge of the filter cover panel to release the magnetic latches and tip the cover out from the front panel (Figure 2-1).

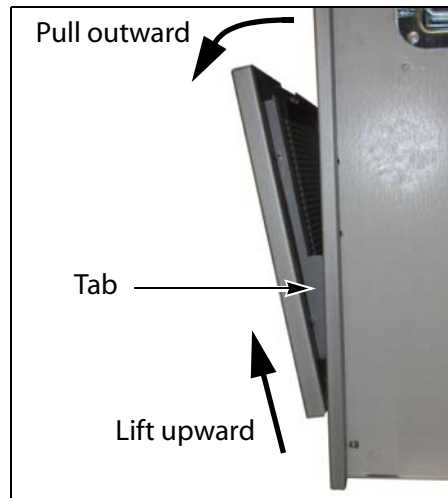


Figure 2-1 Removing the filter cover panel.

2. Lift the cover upward to disengage the tabs on each side of the cover from the slots in the front of the library.
3. Remove the cover and set it aside.
4. Using your fingers or a #2 Phillips screwdriver, loosen, but do not remove, the two knurled screws securing the bottom of the library front panel to the chassis (Figure 2-2).

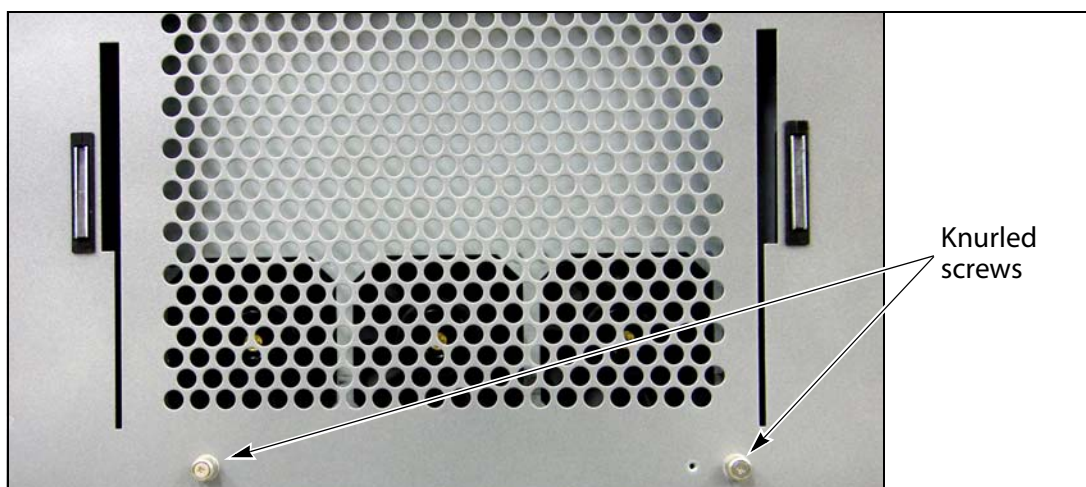


Figure 2-2 Removing the front panel screws.

5. Lift the front panel outward and away from the chassis to disengage the two nuts on the back of the front panel (Figure 2-3) from the holes on either side of the chassis. Set the cover aside.

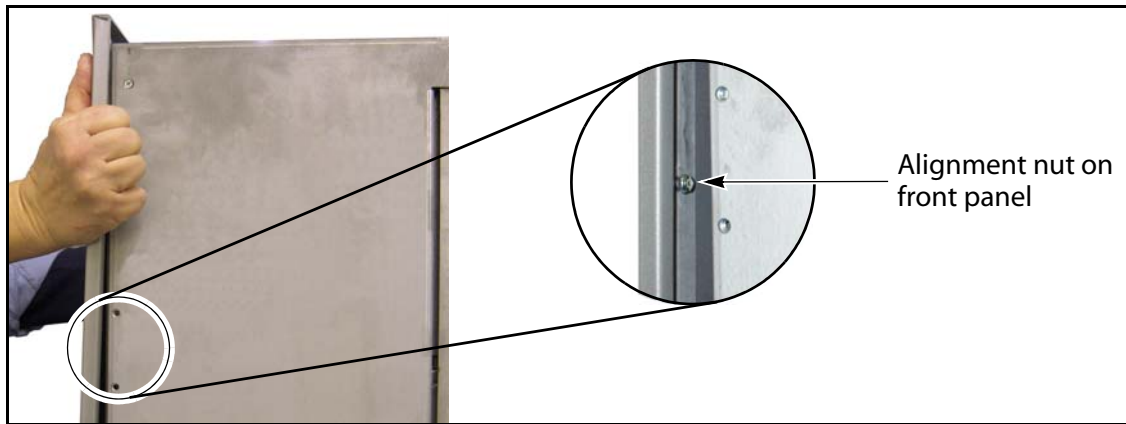


Figure 2-3 Removing the front panel.

Install the Library In the Rack

Warning: The T200 library weighs approximately 230 lb. (104 kg) and the T380 library weighs approximately 305 lb. (138 kg) without controllers, drives, and media installed. Use extreme caution when moving it.

Warnung: Die Library T200 wiegt ca. 104 kg und die Library T380 wiegt ca. 138 kg ohne Controller, Laufwerke und Medien installiert werden. Verwenden Sie extreme Vorsicht walten lassen, wenn sie abwandern.

Warning: The library is very heavy. Always use four people, two on each side, when lifting or moving the library.

Warnung: Die Library ist sehr schwer. Benutzen Sie immer vier Personen, zwei auf jeder Seite, beim Heben oder Fortbewegen der Library.

1. Position the library chassis in front of the rack. Using the handles on each side of the chassis, lift the library and slide it onto the rack shelf.

- Slide the library back on the shelf until you can see how the clip nuts you installed in Step 5 on page 11 (Figure 3 on page 12) align with the slots in the mounting ears on each side of the chassis.

Warning: Make sure that you support the weight of the library to prevent the rack from tipping forward as you slide the library onto the shelf.

Warnung: Stellen Sie sicher, dass Sie das Gewicht der Library um zu verhindern, dass der Schrank aus Kipp vorn schieben, wie Sie die Library auf dem Regal.

- If necessary, use a #2 Phillips screwdriver to loosen the screws securing the ears to the chassis so that you can reposition their slots over the clip nuts on the rack (Figure 4). Tighten the screws to hold the ears in place.

Note: There are two mounting ears on each side of the library, one near the top of the chassis and one near the bottom.

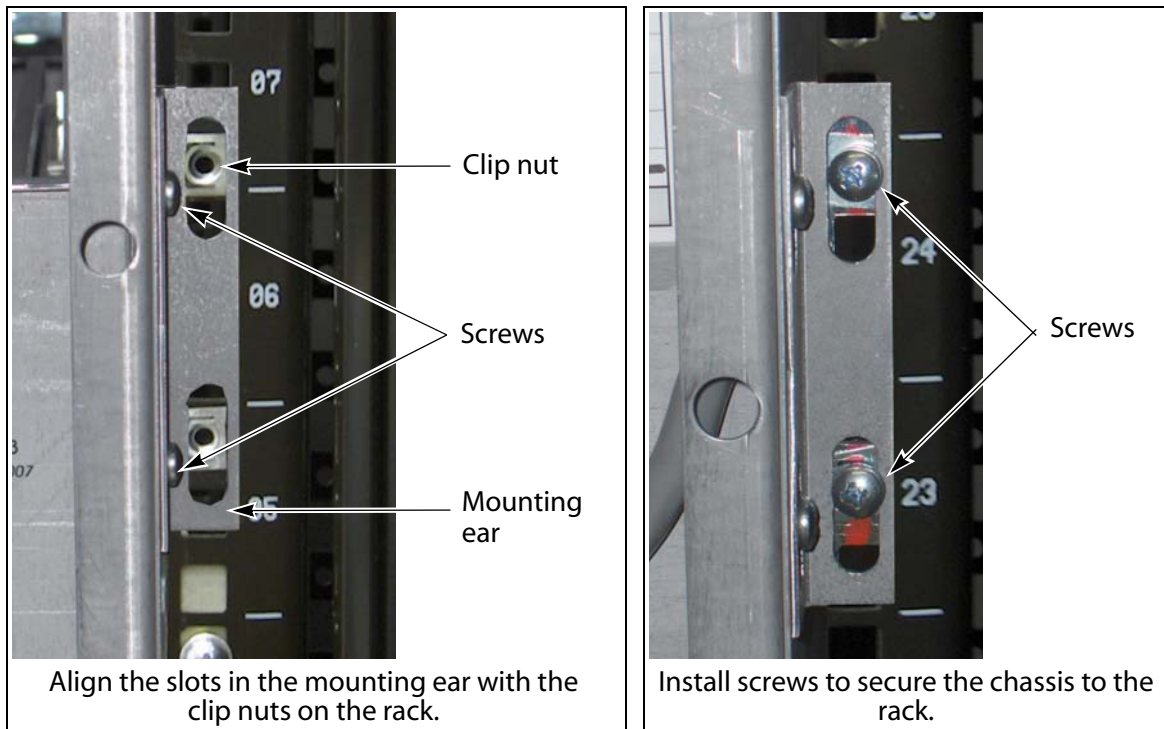


Figure 4 Position the library mounting ears over the clip nuts and install the screws.

- Slide the library completely into the rack so that the mounting ears are against the posts.
- Install two 10-32 x 1/2-inch SEM screws in each ear to secure the library to the rack, as shown in Figure 4.

Reinstall the Front Panel

1. After you finish securing the library to the rack, reinstall the front panel.
 - a. Align the cutouts for the touch screen and the TAP with the front of the library.
 - b. Insert the alignment pin on the bottom edge of the front panel into the corresponding hole in the bottom edge of the chassis.
 - c. Fit the alignment pin on the top edge of the panel and the two nuts extending from the back of the front panel (see Figure 2-3 on page 14) into the corresponding holes on the top and side edges of the chassis.

Note: Make sure that the power button fits into the cutout in the front panel and that the front panel is flush against the front of the chassis.

2. Using your fingers or a #2 Phillips screwdriver, tighten the two knurled screws on the bottom of the library front cover, securing it to the chassis (Figure 4).

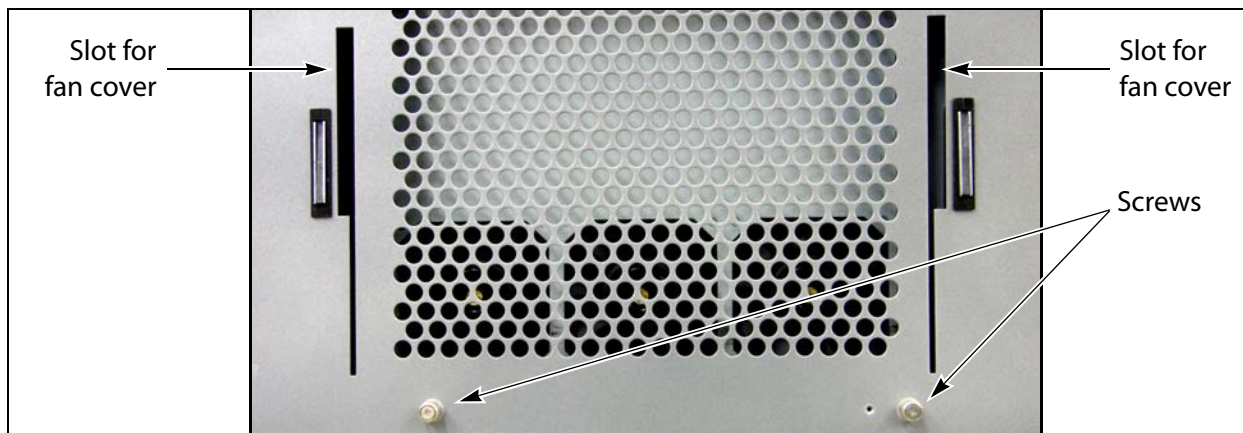


Figure 4 Install the front cover screws.

3. Insert the tabs on the back of the fan cover into the slots in the front cover (Figure 4), then slide the cover downward, as shown in Figure 5. Push the upper edge of the cover toward the front panel until the magnets secure it to the front panel.

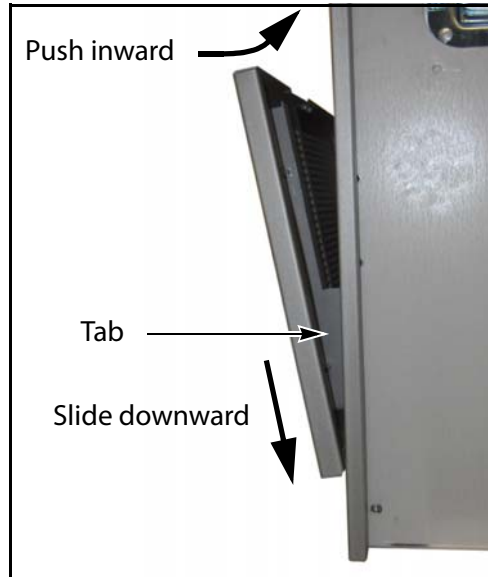


Figure 5 Install the fan cover.

4. The library is now ready to be cabled and configured for use.

Notes