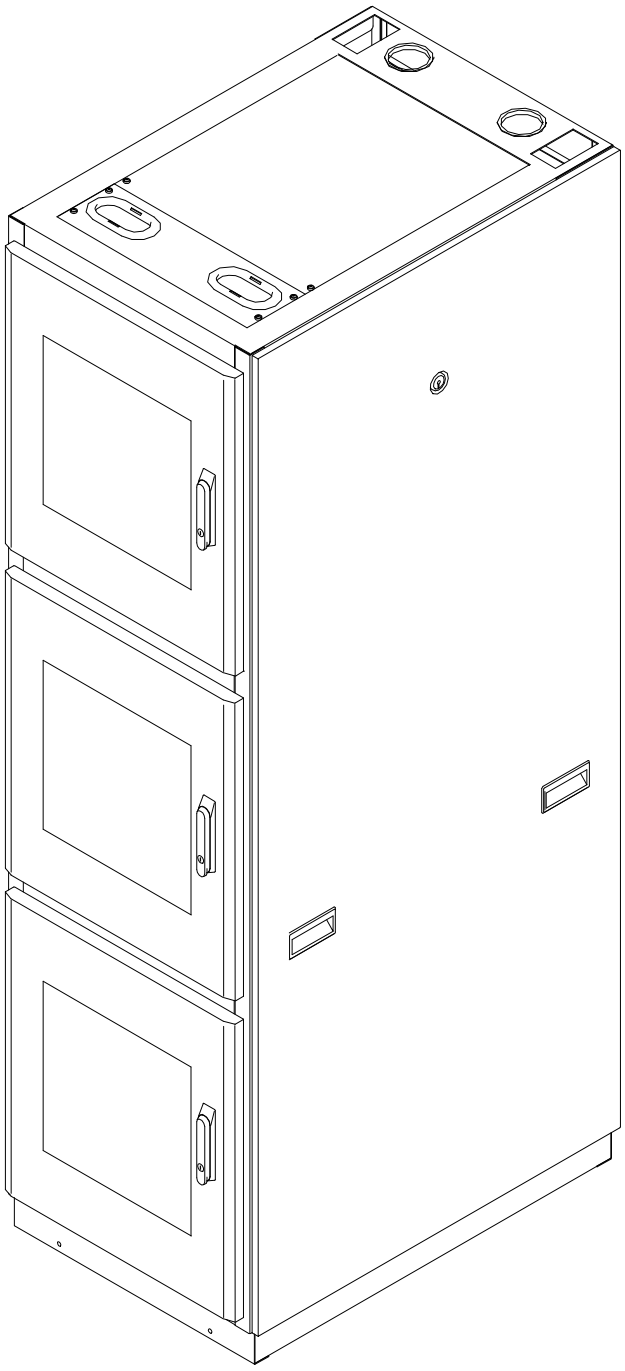
Vantage Enclosures
Installation Manual



VANTAGE ENCLOSURES
Installation Manual

Table of Contents

Section

Fasteners That You Will Be Using 1
Installing The Anti-Tip Bracket 2
Removable Side Panels 3
Ganging Units And Vertical Divider Panels 4
Mounting Angle 5
Top Panels 6
Assembling The Optional Exhaust Fan 6
Door Removal 7
Rack Mount Fixed And Roll-Out Shelves 8, 9, 10
Swivel Keyboard Drawer With Mouse Surface 11, 12
Vertical Power Strip 13
Parts List 14, 15, 16

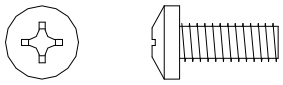
Product specifications are subject to change without notice.

Vantage Enclosures

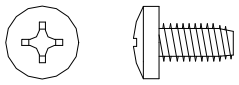
Tools That You Will Need:

Phillips Head Screwdriver
3/8” Nut Driver (or Socket Wrench)
11/32” Nut Driver (or Socket Wrench)

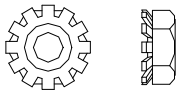
Fasteners That You Will Be Using:



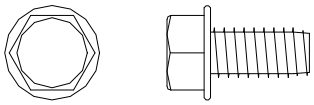
#82032
#10-32 x 1/2” Phillips
Pan Head Machine Screw



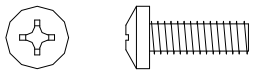
#66714
#10-24 x 3/8” Phillips
Pan Head Screw



#18242
#10-24 Keps Locking Nut

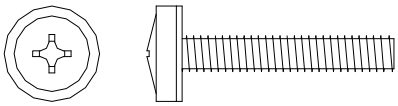


#H72
1/4”-20 x 1/2” Hex
Washer Head Screw

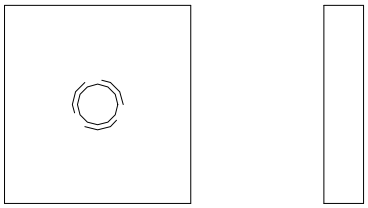


#83840
#8-32 x 1/2” Phillips Pan
Head Machine Screw

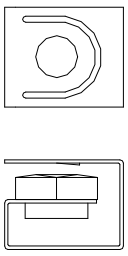
#18244
#8-32 Hex Lock Nut



#H99
#10-32 UNF x 1-1/8”
W/Nylon Washer



#H44
Square Nut
Uni-Channel



#C31758-1032-3B
#10-32 Clip Nut

Please read these instructions carefully and follow the installation steps in sequence.

Installing The Anti-Tip Bracket

1. Install the **Anti-Tip Bracket** to the front of the enclosure base using two 1/4”-20 x 1/2” hex washer head screws. See figure 1.

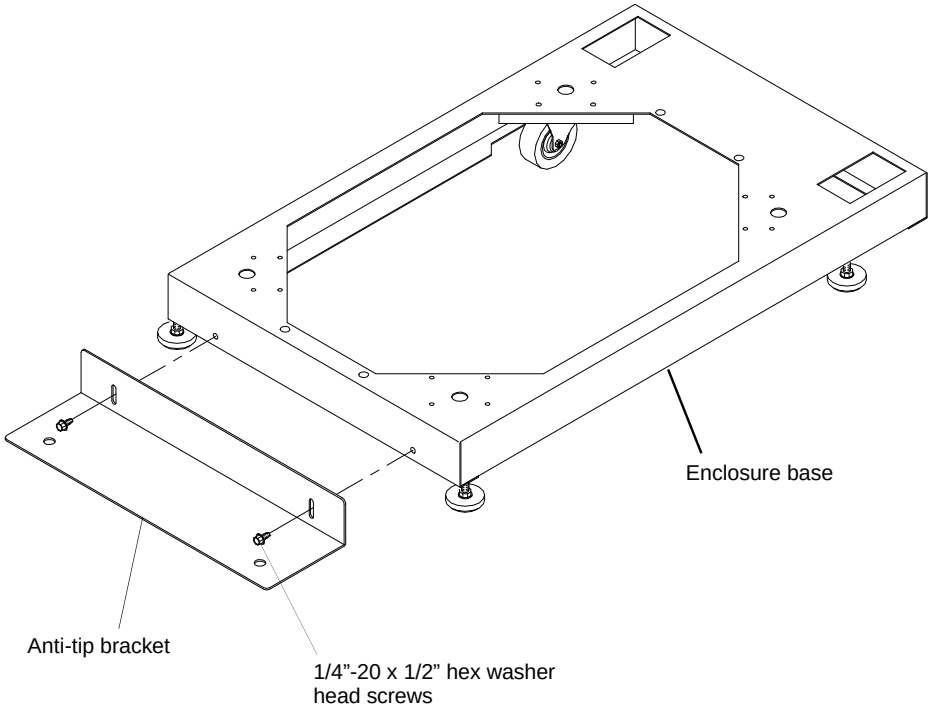


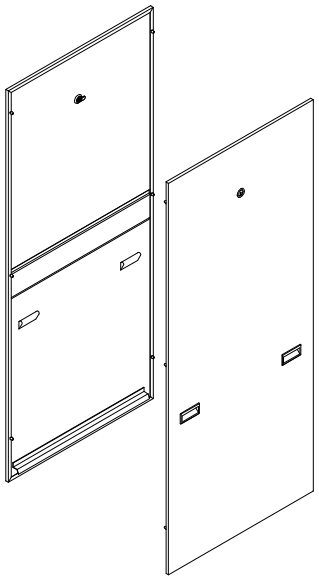
Figure 1

Removable Side Panels

1. Vantage Enclosures have removable **Side Panels**. To remove a panel, first unlock it and the lift the panel straight up using the handles. This will disengage the pins (located on the inside of the panel) from the keyhole slots in the enclosure frame. See figure 2.

   Next, pull the top of the panel towards you and lift the panel up to disengage the hook located at the bottom of the panel with the bottom of the enclosure frame. See figure 3.

2. To install a Side Panel, engage the hook located at the bottom of the panel with the bottom of the enclosure frame and angle the panel towards the frame. Align the sides of the panel with the frame and then lift the panel up to allow the pins on the inside of the panel to slide into the keyhole slots in the frame. The Side Panel will then drop into place.



Side Panels

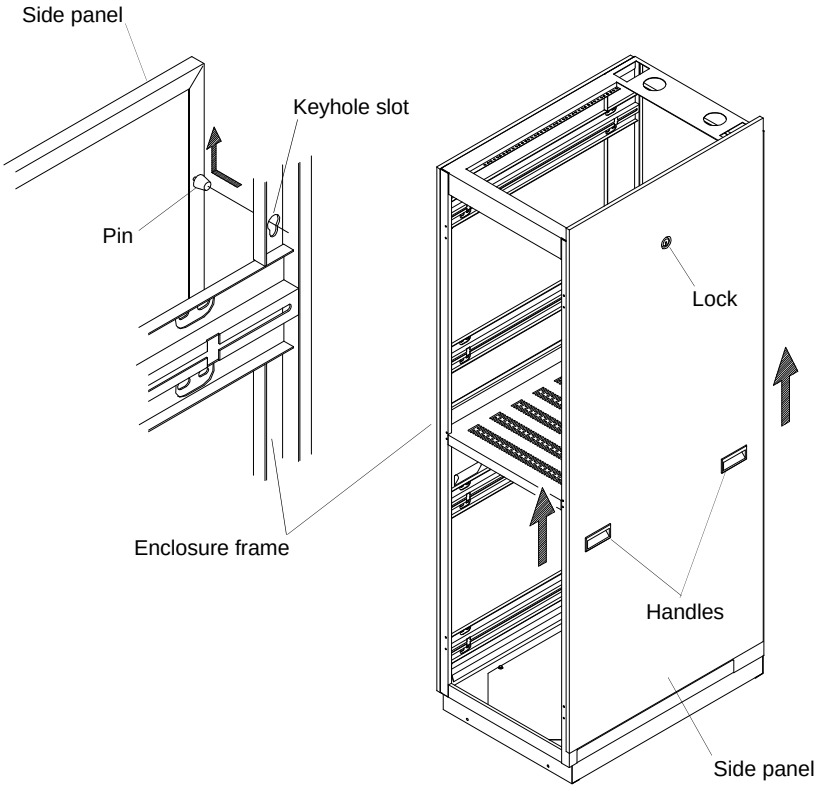


Figure 2

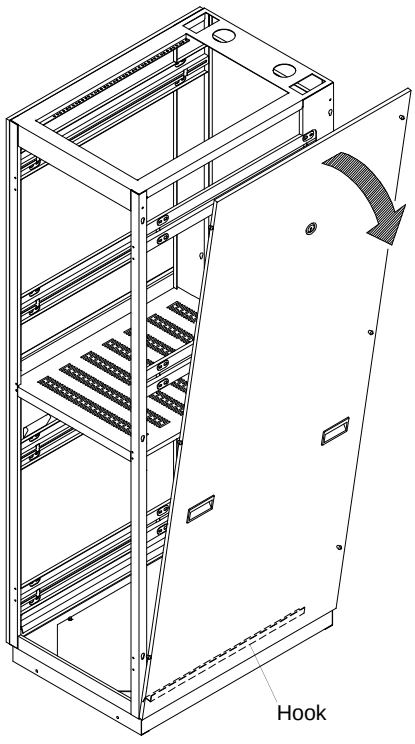


Figure 3

Ganging Units And Vertical Divider Panels

1. Before ganging enclosure frames together, the Side Panels must be removed from the adjacent sides. Refer to step 1 on the previous page for Side Panel removal.

2. Align the units as shown in figure 4. If a **Vertical Divider Pane**l is used, install it onto one of the units by engaging the pins located at the top of the panel with the keyhole slots in the unit frame.

   Push the units together aligning the holes in the uni channels and the Vertical Divider Panel. Fasten the units together using six 1/4”-20 x 1/2” hex washer head screws and six square nuts. See figure 4. Tighten all screws securely.

   The cable access covers can be removed as shown in figure 4.

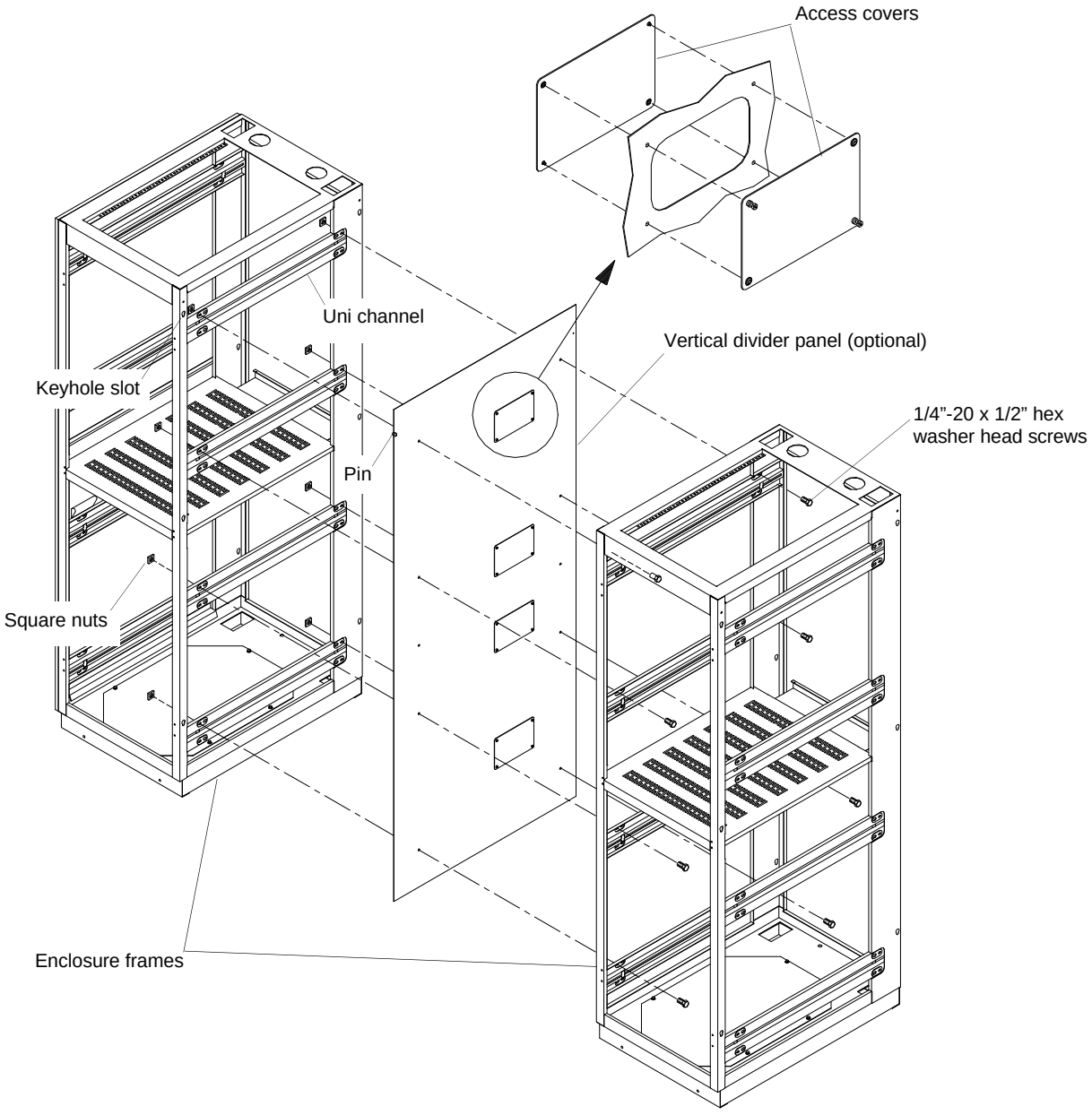


Figure 4

Mounting Angle

1. Vantage Enclosures come with four fully adjustable **Mounting Angles**. To adjust a Mounting Angle, loosen but do not remove the three 1/4”-20 x 1/2” hex washer head screws located at the top, center, and bottom of the Mounting Angle. See figure 5.

2. Slide the Mounting Angle forward or backward to the desired location and tighten the screws. Be sure that the Mounting Angle stays vertical from bottom to top. See figure 5.

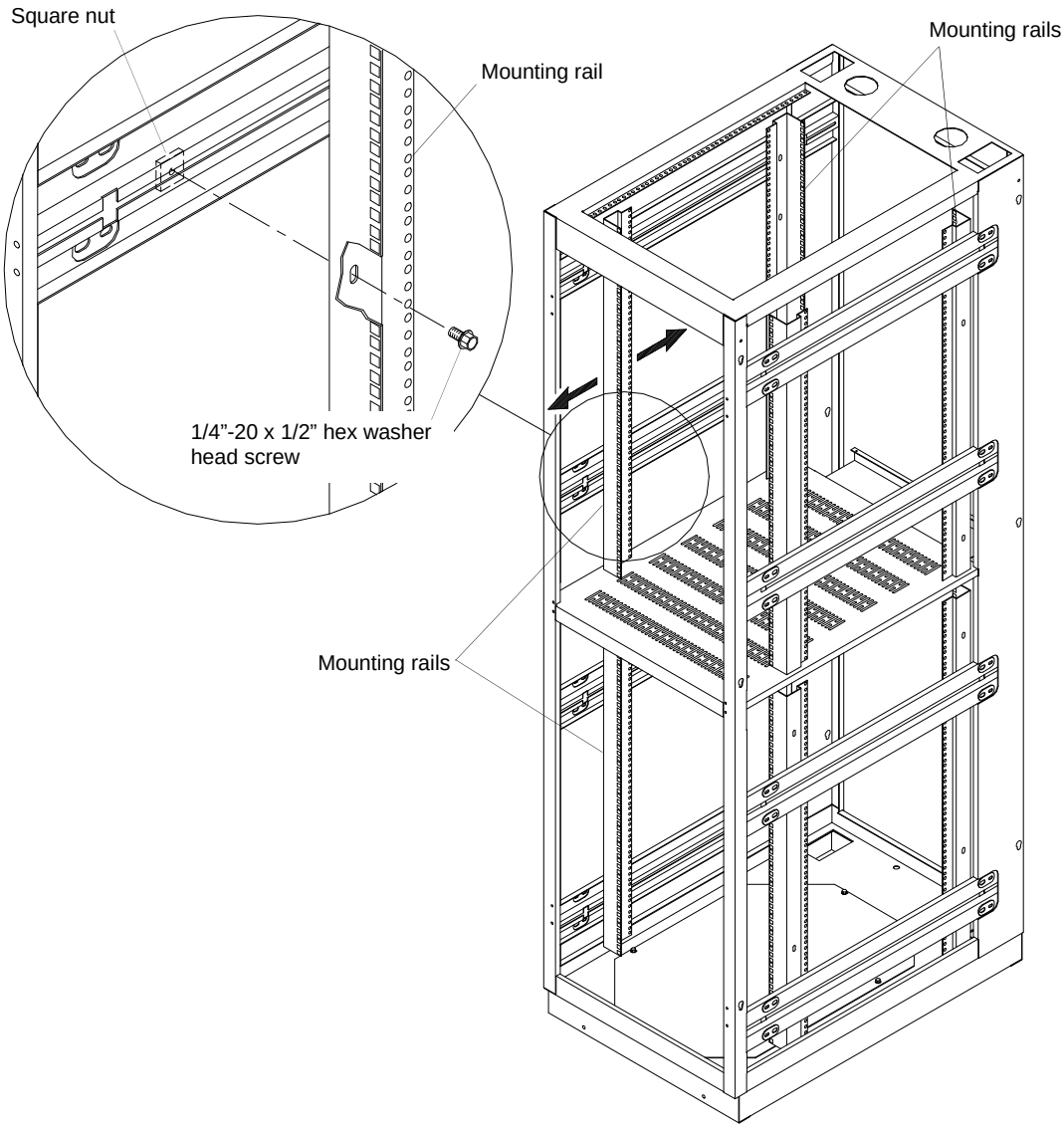


Figure 5

Top Panels

1. To remove a **Top Panel**, loosen and remove the #10-32 UNF x 1-1/8" screws that secure the Top Panels to the enclosure frame. See figure 6.

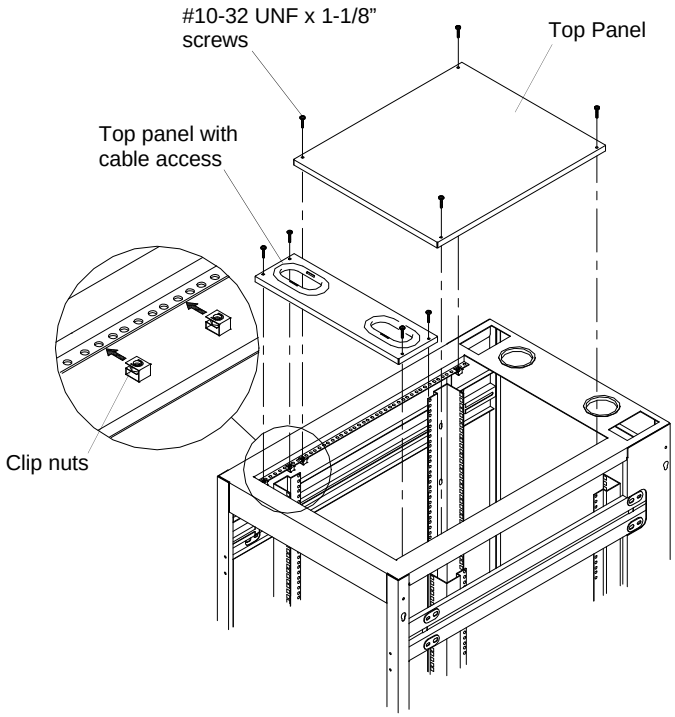


Figure 6

Assembling The Optional Fan Tray

Fans ship pre-installed from the factory. If a fan must be installed in the field, assemble as shown in figure 7.

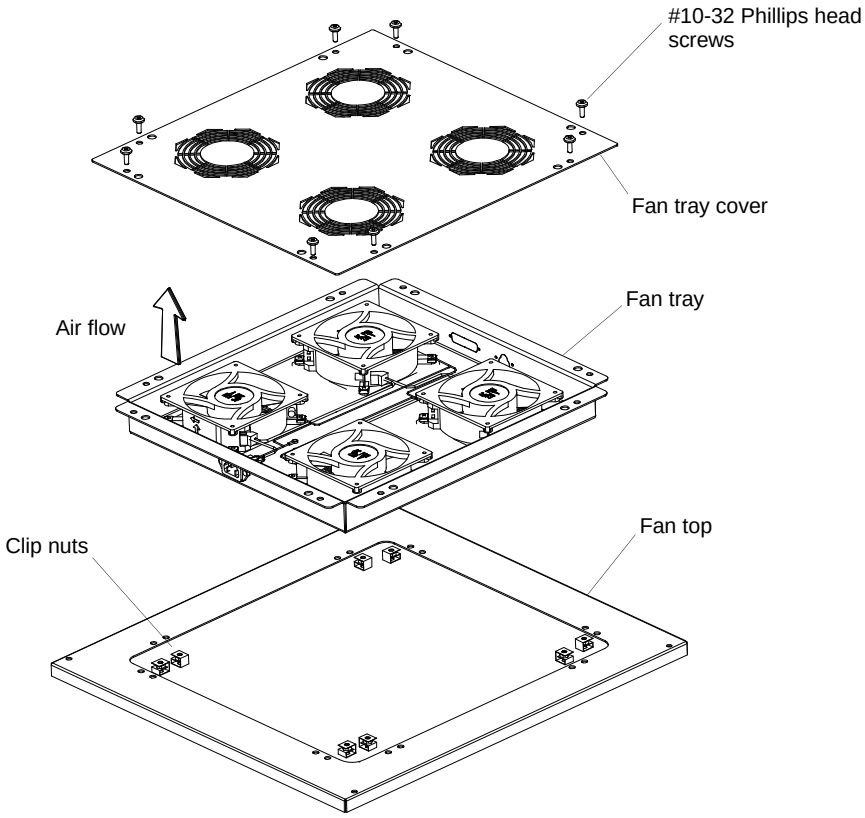


Figure 7

Door Removal

1. To remove the door from the enclosure, remove the pins from the top and bottom hinges. See figures 8a and 8b.

2. For door handle and lock disassembly, see Detail A.

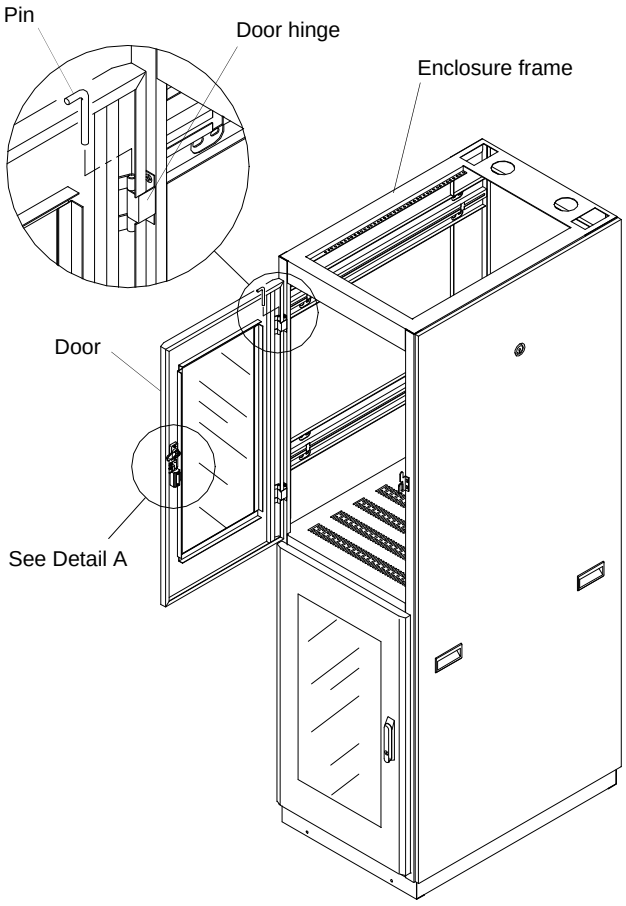


Figure 8a

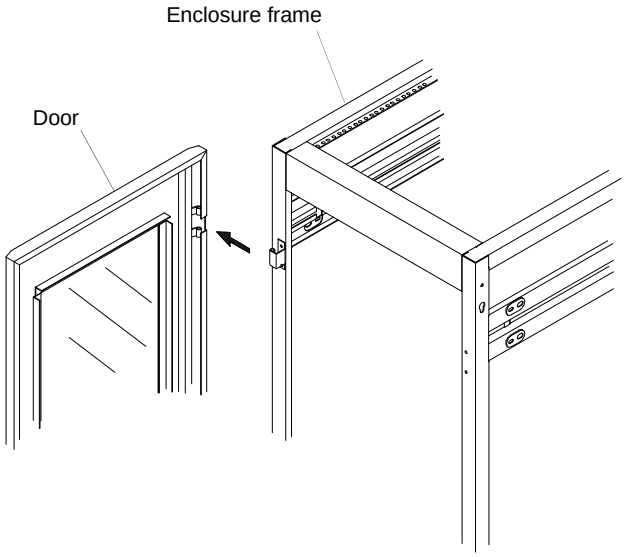
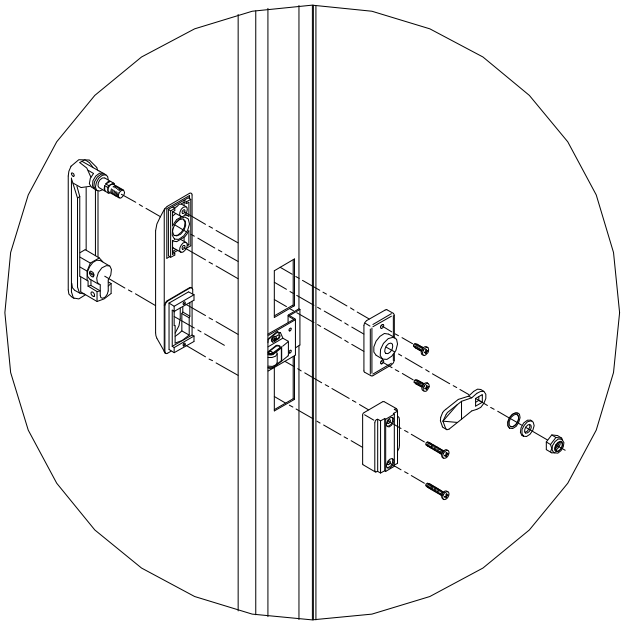
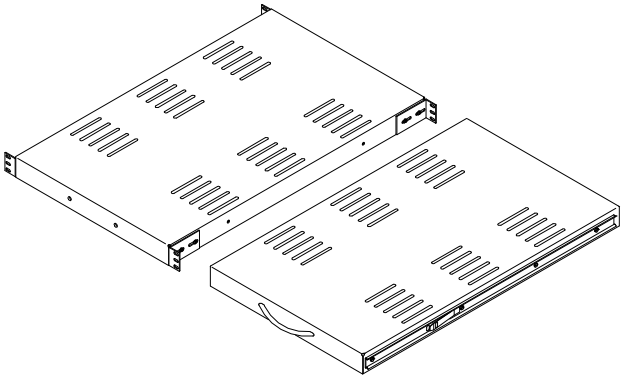


Figure 8b



Detail A

Rack Mount Fixed And Roll-Out Shelves



Rack Mount Fixed And Roll-Out Shelves

CLIP NUT INSTALLATION

Clip Nuts provide mounting points on 19” and 23” rack mount equipment rails.

Clip nuts have a front or screw side. Consider which way it should face for ease of access to the screw head during component installation. See figure 9.

To remove a clip nut from a mounting angle, insert a flat blade screwdriver or knife under the tab on the front and pry up, freeing the retaining ring from the mounting angle. See figure 9.

1. Select the location at which the **Fixed Shelf** or **Roll-Out Shelf** will be installed in the enclosure.

2. Snap one clip nut into the top hole at the selected position.

   Note: If you are installing a ***Roll-Out Shelf***, Install a #10-32 screw *part way* into each clip nut.

   If the component is a Roll-out and the weight load exceeds 75lbs. or more, use four clip nuts and screws in each of the brackets. It will be necessary to select a four hole grouping of holes that matches the brackets. The center two holes will be .50” apart. If less than 75 lbs., two screws are sufficient.

3. Measure from the bottom of the Mounting Angle to the top clip nut. Assemble clip nuts onto the three other rails at the measured height.

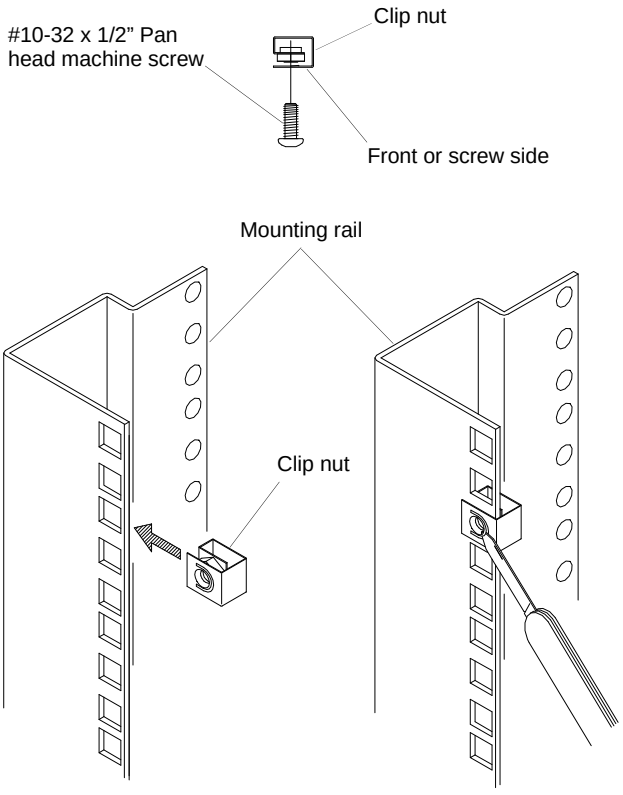


Figure 9

STATIONARY SHELF INSTALLATION

1. The front and rear **Shelf Brackets** are assembled in reverse for shipping purposes. Remove and re-assemble them as shown in figure 10.

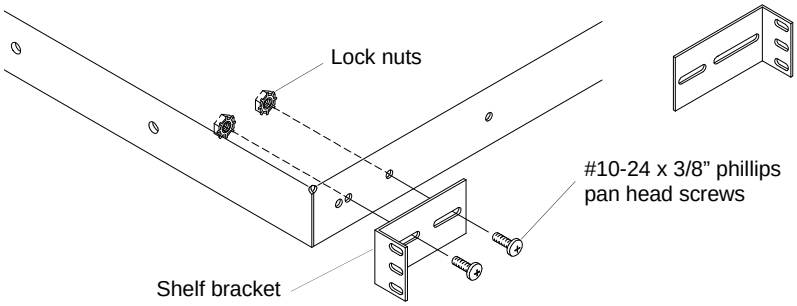


Figure 10

2. Position the **Fixed Shelf** with the four brackets on the correct side of the clip nuts See figure 11.

3. Attach the front brackets to the rails with the screws provided and tighten. See figures 11.

4. Repeat for the rear brackets and tighten all screws.

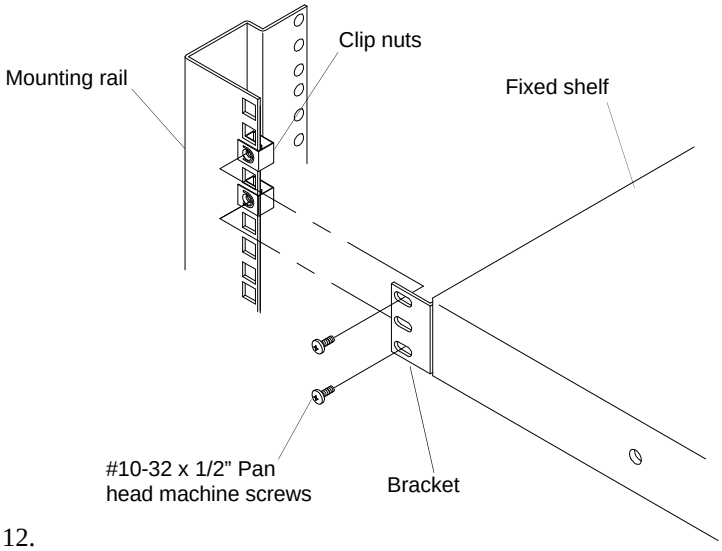


Figure 11

FIXED SHELF ADJUSTMENT

1. To adjust the Fixed Shelf, loosen the bracket screws, move the brackets, then re-tighten the screws. See figure 12.

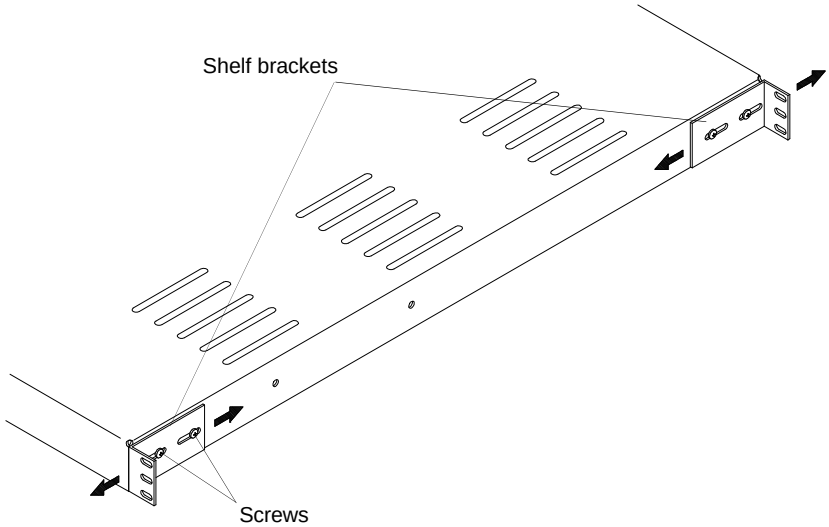


Figure 12

ROLL-OUT SHELF INSTALLATION

NOTE: The **Roll-Out** is equipped with "**Lock Out Slides**" and a "**Front Disconnect**" chassis member for your convenience during assembly to the Rack Module.

1. Assemble the Slide sections onto the Rack Module rails. Slip the **Mounting Brackets** behind the screw head of the clip nut. See figure 13.

2. Snug the clip nut screws enough to retain the Slide, but still allow it to move in and out. **Do not tighten**.

3. Tighten the **Rear Mounting Bracket** to the Slide screws now (not the Clip Nut screws).

4. Close the two sections of the assembled Slide.

   Slide the shelf with the disconnect members into the mounted section. See figure 14.

   Push the shelf in until there is a click

   Now extend it to its full length.

   Push it in again until it is fully closed (the ends of the three slide sections are even). The last two inches may bind; just push. It should now slide in and out freely.

5. Now tighten the clip nut screws.

6. To remove the shelf and chassis rail, refer to figure 15.

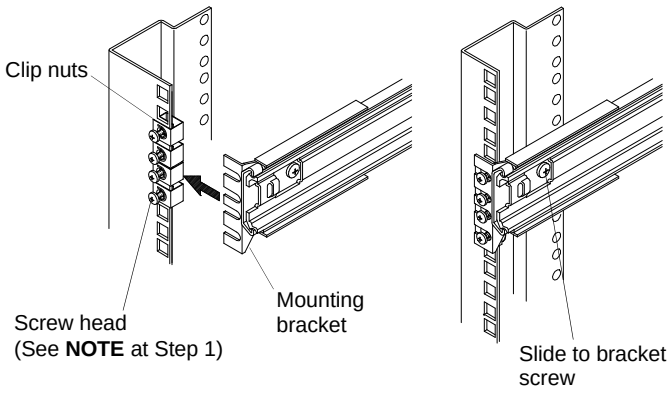


Figure 13

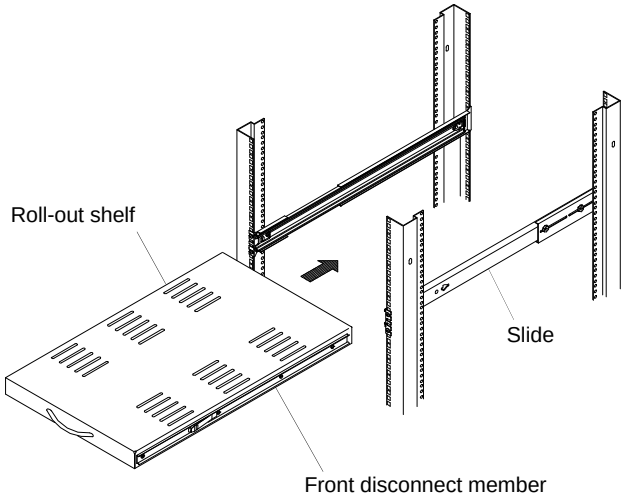


Figure 14

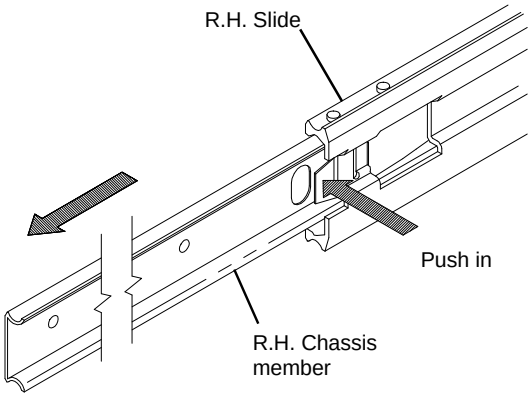
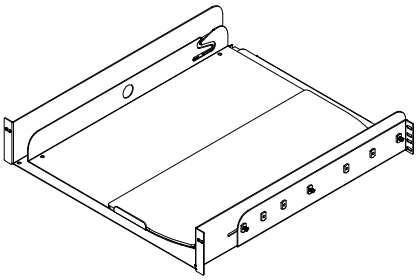


Figure 15

Swivel Keyboard Drawer With Mouse Surface



Swivel Keyboard Drawer

CLIP NUT INSTALLATION

Clip Nuts have a front or screw side. Consider which way it should face for ease of access to the screw head during component installation. See figure 9.

To remove a clip nut from a mounting angle, insert a flat blade screwdriver or knife under the tab on the front and pry up, freeing the retaining ring from the mounting angle. See figure 9.

1. Select the location at which the **Swivel Keyboard Drawer** will be located in the enclosure.

2. Snap a clip nut into a hole at the selected location on each of the ***front*** mounting angles. See figure 16.

3. Measure from the bottom of the mounting angle to the top of the clip nuts. Assemble the remaining clip nuts onto the two rear mounting angles at the measured height.

NOTE: Install one clip nut per front mounting angle and two clip nuts per rear mounting angle.

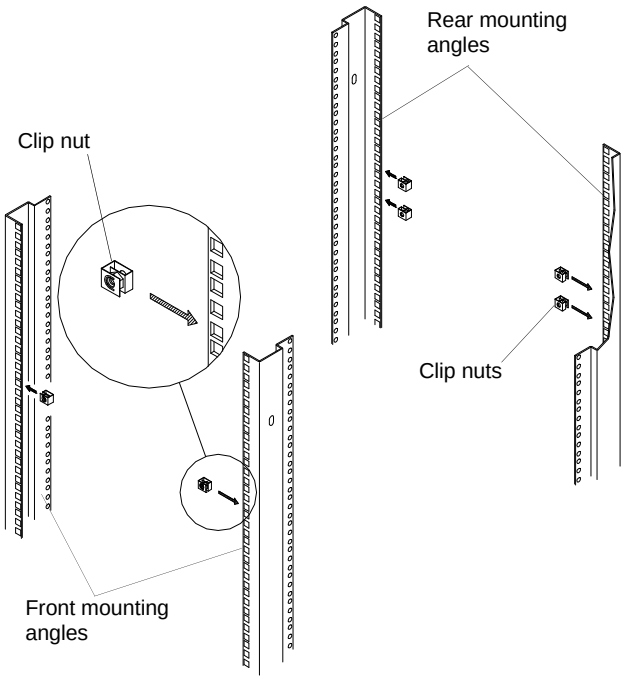


Figure 16

INSTALLING THE SWIVEL KEYBOARD DRAWER

1. Before installing the Swivel Keyboard Drawer, adjust the mounting brackets to the proper length. To do this, loosen or remove the #10-32 phillips head screws (3 per side). After determining the proper length, re-install and/or tighten the screws. See figure 17.

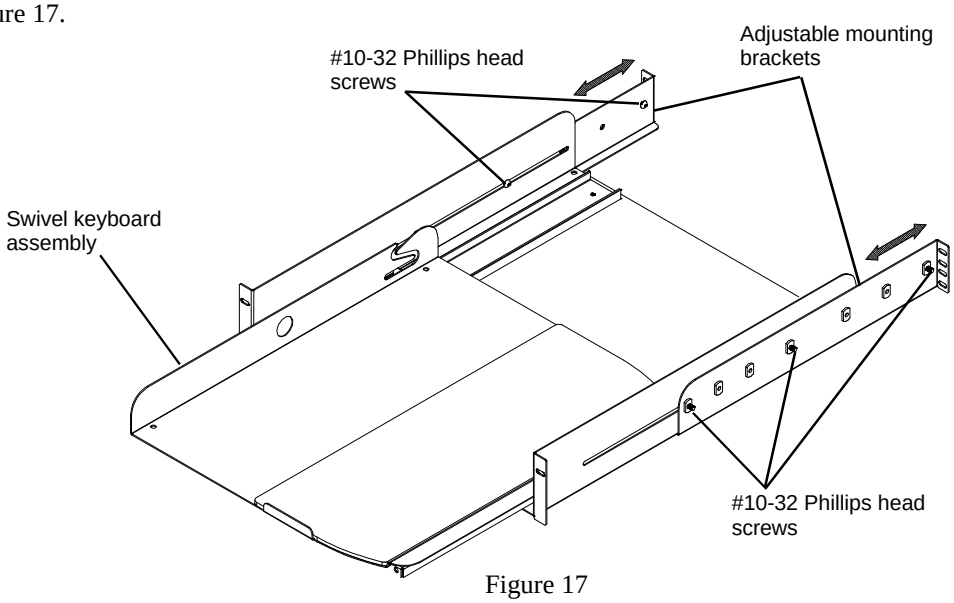


Figure 17

INSTALLING THE SWIVEL KEYBOARD DRAWER (cont.)

2. Attach the Swivel Keyboard assembly to the clip nuts with the #10-32 x .50" phillips pan head screws provided and tighten securely.

3. The Swivel Keyboard can be accessed by first extending the swivel plate and then rotating it 90° clockwise. See figures 18a and 18b. Reverse this procedure to retract the Keyboard.

4. Remove the backing from the plastic **Cord Clip** and attach it to the desired location on the Drawer. See figure 18b.

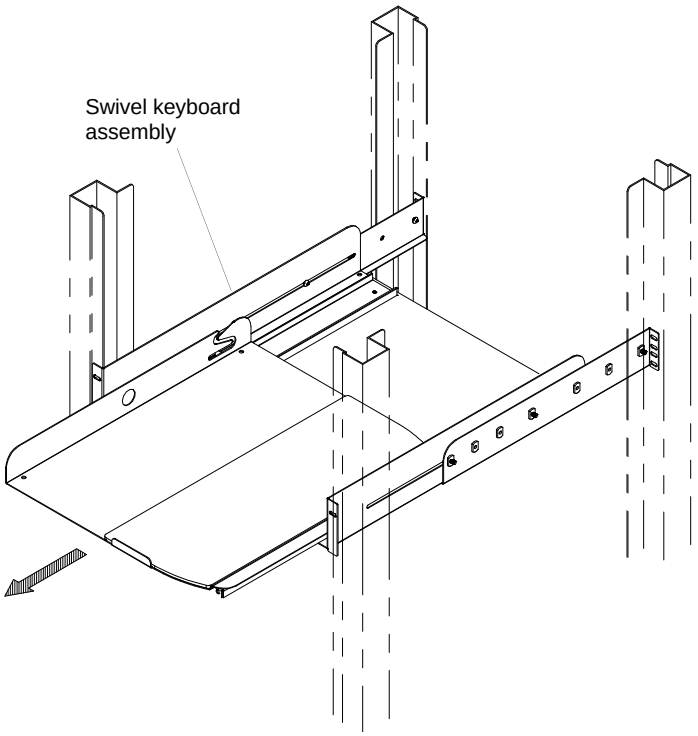


Figure 18a

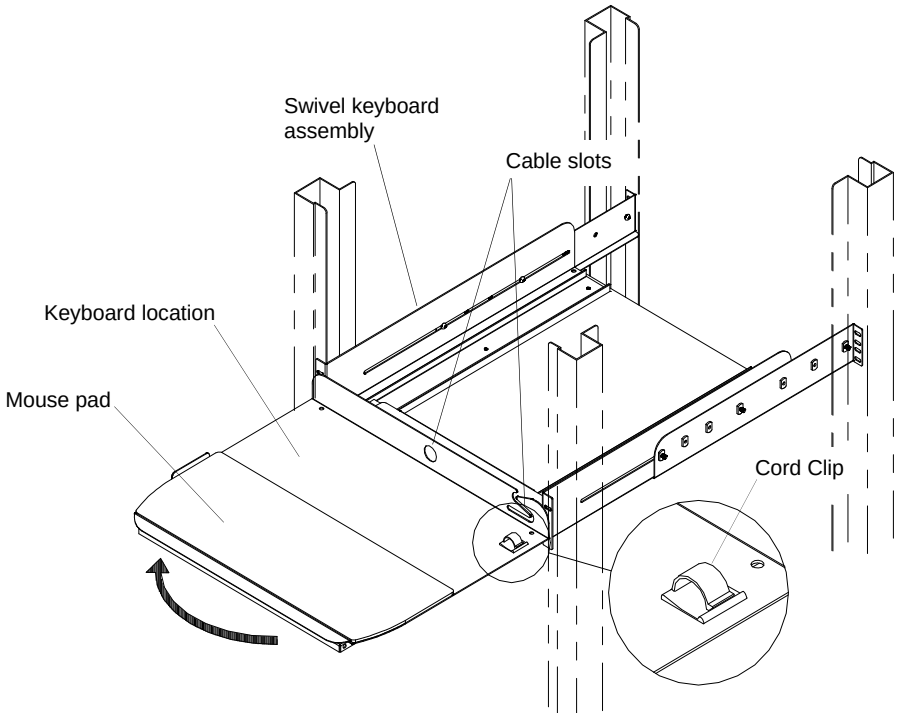


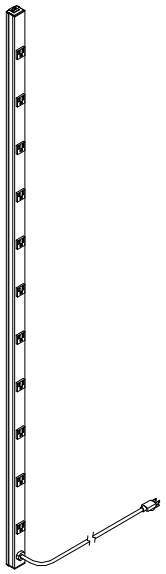
Figure 18b

Vertical Power Strip

1. Install three **Mounting Clips** (provided with the power strip) onto the **Vertical Lacing Bar** using the phillips head screws and locking nuts (provided with the power strip). See figure 19.

2. Determine the desired location for the **Vertical Power Strip** inside the enclosure. Attach the Vertical Lacing Bar to the uni channels using three 1/4"-20 x 1/2" hex washer head screws and three square nuts. Ensure that the Lacing Bar is vertical and tighten the screws. See figure 19.

3. Install the Vertical Power Strip into the clips by engaging one side of the power strip with the clips and then pushing down to engage the other side. See figure 20. Be sure that the power strip is firmly seated in each clip.



Vertical Power Strip

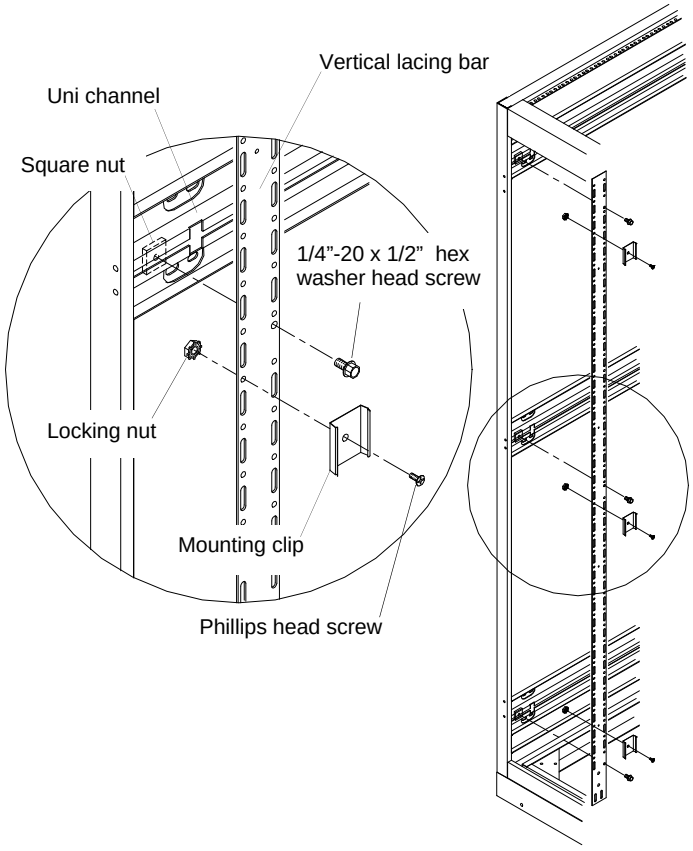


Figure 19

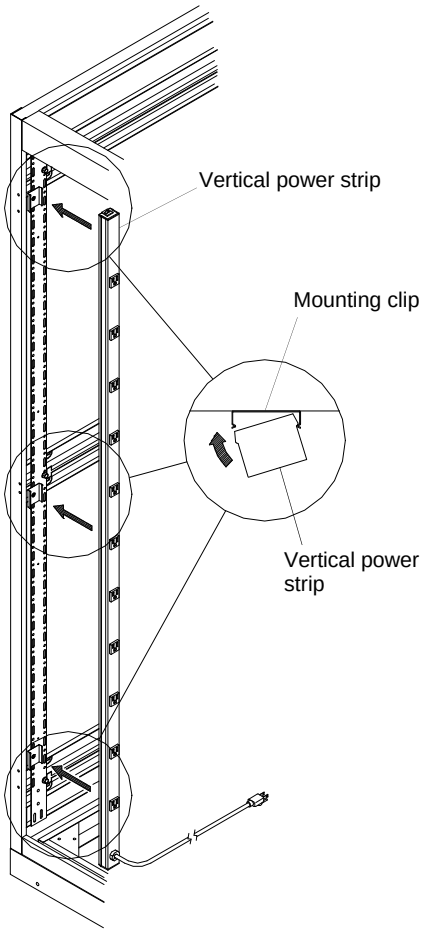


Figure 20

Cable Management

POWER STRIP INSTALLATION (bottom bay)

1. Install the power strips at the bottom of the enclosure as shown in figure 21. To route the cords, first remove the wire-way covers and divider troughs in the top bay(s). Route the cords thru the wire-way and then thru the bushing at the top of the enclosure and then re-install the wire- way covers and divider troughs.

   Repeat this procedure for the remaining bay(s). See figures 22 and 23.

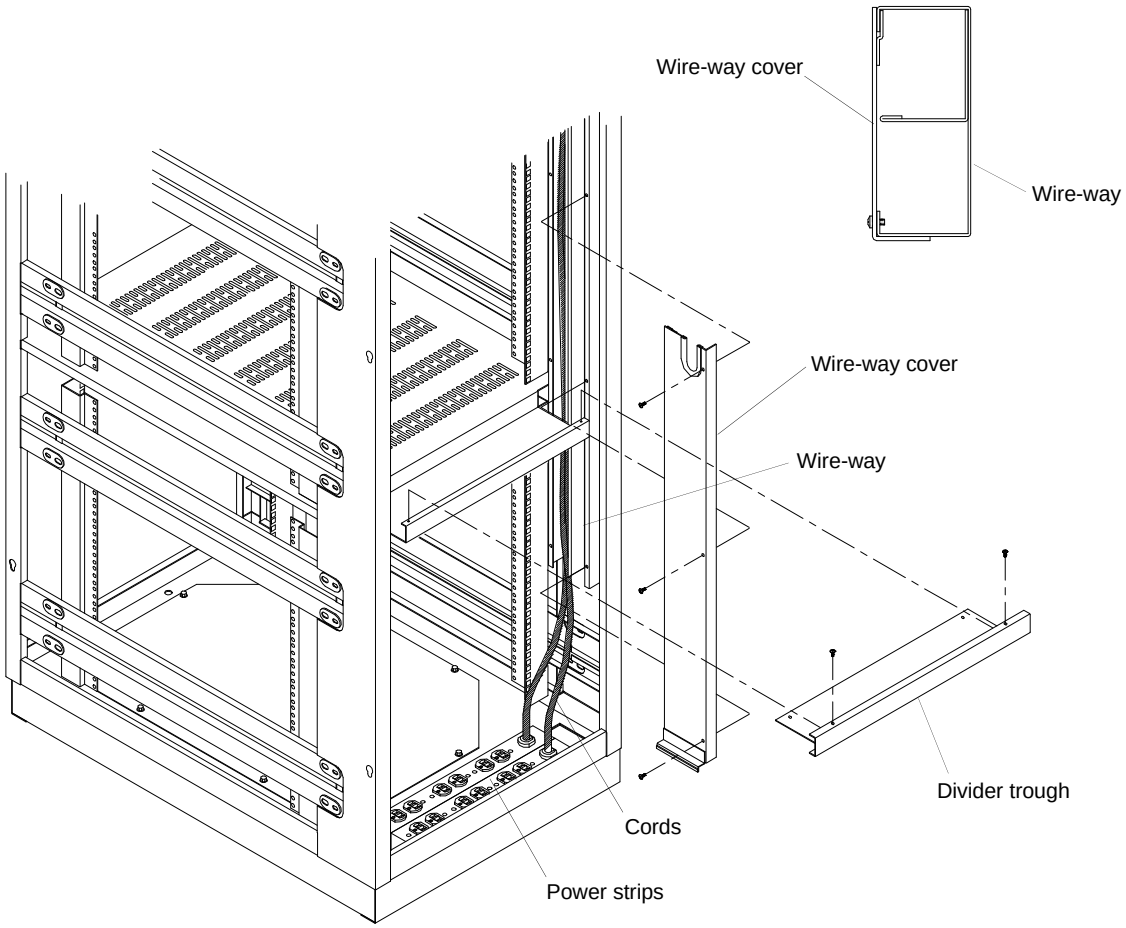


Figure 21

Cable Management (continued)

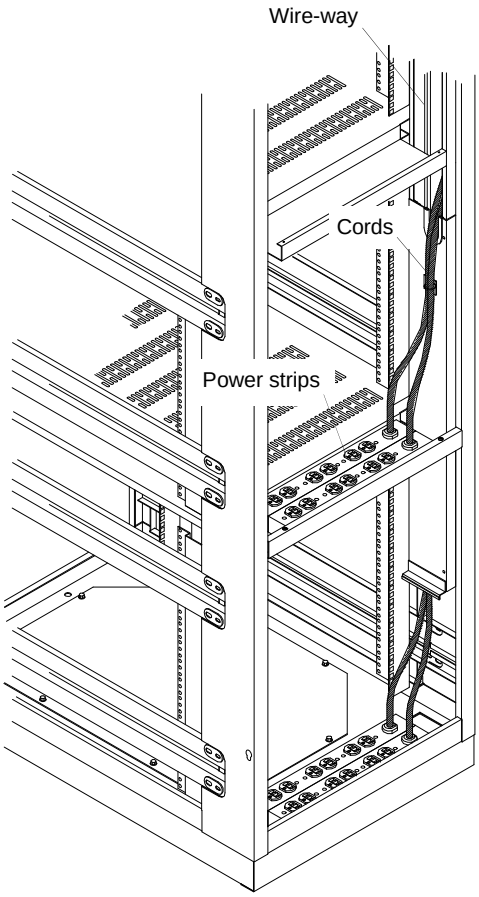


Figure 22

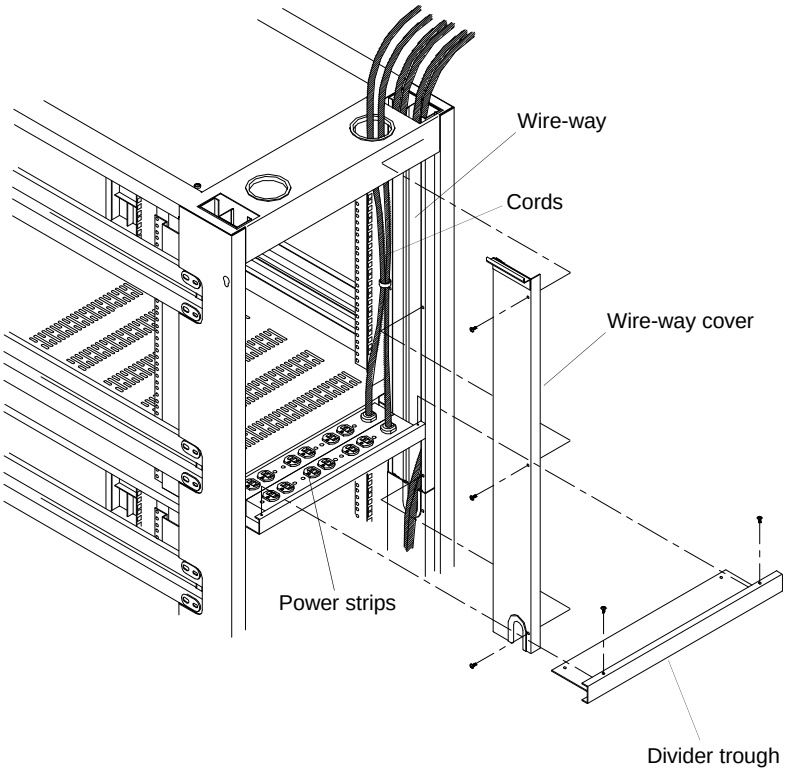


Figure 23

Cable Management

CABLE INSTALLATION (bottom bay)

1. To route the cables, first remove the wire-way covers and divider troughs in the top bay(s). Route the cables thru the wire-way and then thru the bushing at the top of the enclosure and then re-install the wire-way covers and divider troughs. See figures 24 and 25.

   Repeat this procedure for the remaining bay(s). See figures 22 and 23.

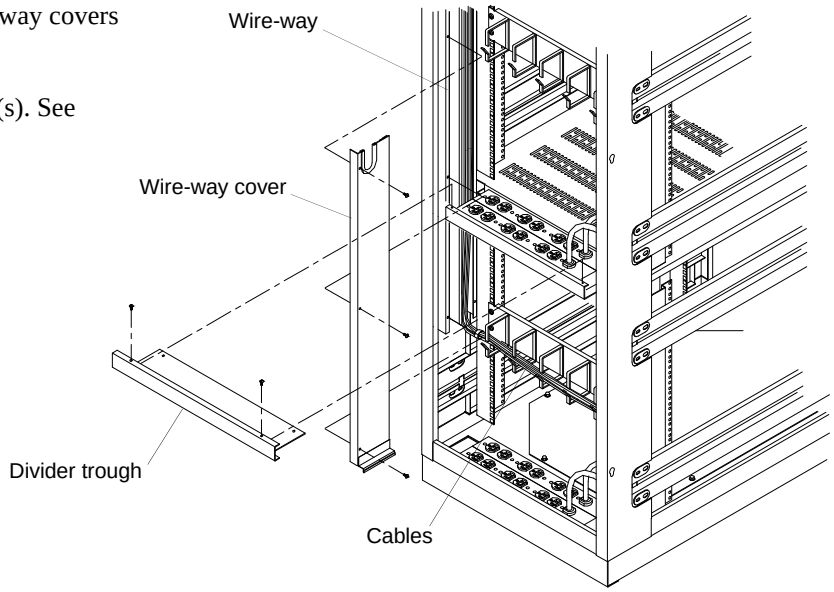


Figure 24

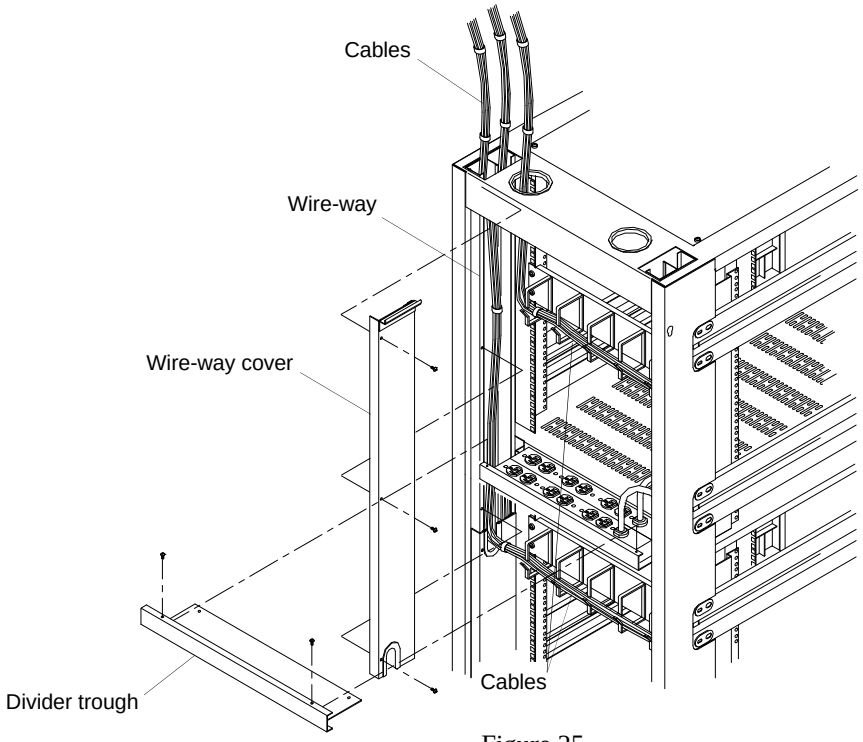
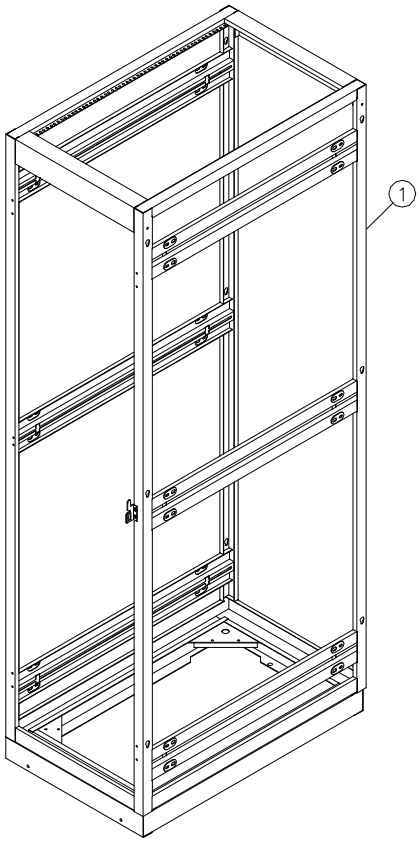


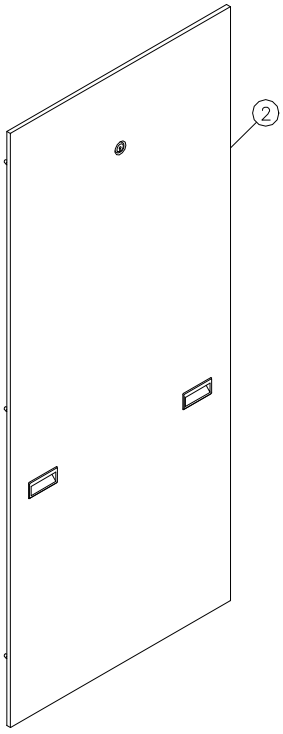
Figure 25

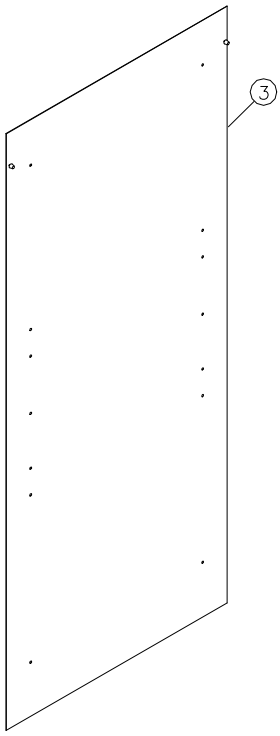
Part Identification Listing

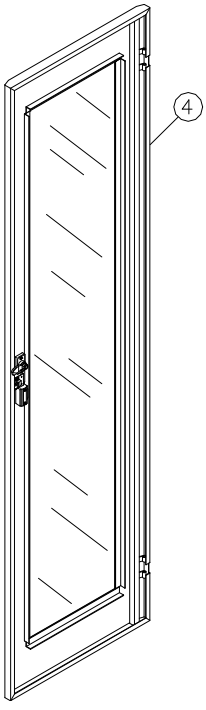
1. Enclosure Frame
2. Side Panel Assembly
3. Side Panel, Vertical Divider Between Frames
4. Door Assembly, Perforated/Lexan
5. Door Assembly, Perforated
6. Door Assembly, Vented
7. Mounting Angle
8. Anti-Tip Bracket
9. Fan Panel
10. Panel, Perforated
11. 5” Top Panel Assembly
12. Shelf, 19” W x 24” D R/M
13. Shelf, 19” W x 28” D R/M
14. Slide, Quick Disconnect, 24”
15. Slide, Quick Disconnect, 28”
16. Mounting Bracket, Front/Rear
17. 8-32 Keps Hex Lockwasher Nut
18. 8-32 x 3/8” Slotted Pan Head Machine Screw
19. Handle
20. 4 mm x 6 mm Phillips Fillister Head Screw
21. Lock Washer
22. Mounting Bracket, Rear
23. Mounting Bracket, Front
24. Vertical Lacing Bar

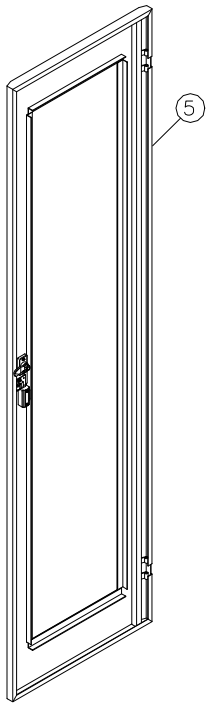
Vantage Enclosures

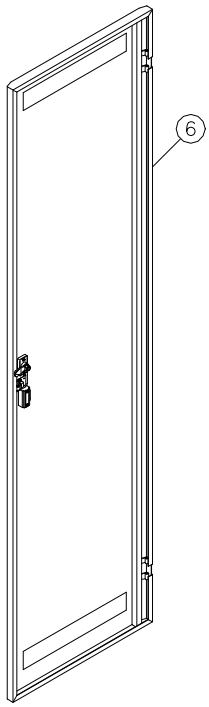


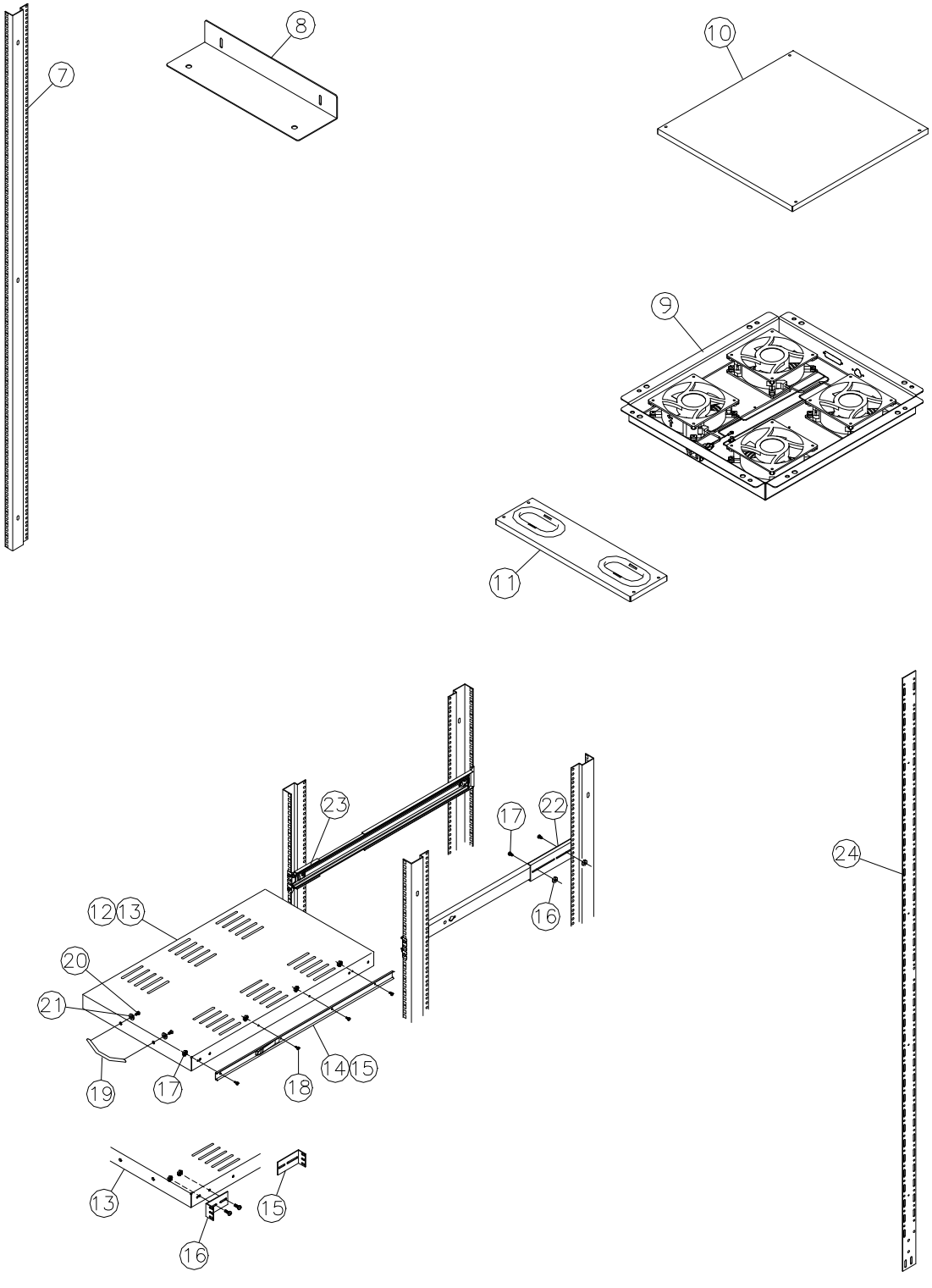








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