



User Manual

Eaton RE Series Server Enclosure

User Manual

Eaton RE Series Rack Enclosures

Important Safety Instructions	2
Overview	3
Available RE Series Enclosures	3
Feature Identification	4
Package in Flat packing	5
Main Components	5
Accessories	6
Enclosure Installation---For Flat packing cabinet	7
Step 1:Triangle reinforcing plate fixed	7
Step 2: Horizontal beams fixed to the rear door frame	7
Step 3: Horizontal beams fixed to the front door frame	8
Step 4: Fixed the triangle reinforcing plate to the both front and rear door frame	8
Step 5: Fixed 2pcs cable management rails to the horizontal beams	9
Step 6: Fixed 4pcs vertical rails to the horizontal beams	10
Step 7: Fixed the top cover	11
Step 8: Side panel installation	11-12
Enclosure Installation--For Build up packing cabinet	13
Preparation	13
Unpacking	13-14
Placement	14
Leveling	15
Ground Connection	15
Enclosure Configuration	16
Adding or Removing Front and Rear Doors	16
Reversing Front Door	16-17
Adding or Removing Roof Panel	18
Adding or Removing Side Panels	18-19
Adjusting Mounting Rails and Cable Management Rails	19
Combining (Baying) Enclosures	20
Equipment Installation	20
Installing or Removing Cage Nuts	21
Storage and Service	22
Warranty	22

Important Safety Instructions



SAVE THESE INSTRUCTIONS

All sections of this manual contain instructions and warnings that should be followed during the installation and use of the Eaton RE Enclosures described in this manual. Read all instructions and warnings thoroughly before attempting to move, install or use the RE Enclosures described in this manual. Failure to comply will create a risk of personal injury and property damage and may invalidate the warranty.

- Keep the enclosure in a controlled indoor environment, away from moisture, temperature extremes, flammable liquids and gasses, conductive contaminants, dust and direct sunlight.
- Leave adequate space at the front and rear of the enclosure for proper ventilation. Do not block, cover or insert objects into the external ventilation openings of the enclosure.
- The enclosure is extremely heavy. Use caution when handling the enclosure. Do not attempt to unpack, move or install it unassisted. Use a mechanical device such as a forklift or pallet jack to move the enclosure in the shipping container.
- Do not place any object on the enclosure, especially containers of liquid, and do not attempt to stack the enclosures.
- Inspect the shipping container and the enclosure for shipping damage. Do not use the enclosure if it is damaged.
- Leave the enclosure in the shipping container until it has been moved as close to the final installation location as possible. The casters are designed for minor position adjustments within the final installation area only. The casters are not designed for moving the enclosure over longer distances.
- The casters are not designed to provide long-term support for the enclosure after final installation. Use the levelers to provide long-term support.
- Install the enclosure in a structurally sound area with a level floor that is able to bear the weight of the enclosure, all equipment that will be installed in the enclosure and any other enclosures and/or equipment that will be installed nearby.
- Install the cabinet securely to the building structure, using the shipping brackets as illustrated in the *Enclosure Installation* section of this manual.
- Do not push the enclosure from the side panels to move it. Pushing from the side panels will cause a tipping hazard.
- When rolling the enclosure on its casters, always push it from behind, never pull it toward you.
- A rolling enclosure can cause personal injury and property damage if not properly supervised. If rolling the enclosure down a ramp is required, use extreme caution. Do not attempt to use ramps that have a slope steeper than 1:12.
- Use caution when cutting packing materials. The enclosure could be scratched, causing damage not covered by the warranty.
- Save all packing materials for later use. Repacking and shipping the enclosure without the original packing materials may cause product damage that will void the warranty.
- Do not re-ship the enclosure with additional equipment. The combined weight of the enclosure and installed equipment must not exceed the load capacity of the pallet. Eaton is not responsible for any damage that occurs during re-shipment.
- Use of this equipment in life support applications where failure of this equipment can reasonably be expected to cause the failure of the life support equipment or to significantly affect its safety or effectiveness is not recommended.

Overview

This document outlines the recommended practices for assembling and installing the RE Series server enclosure. The standard server enclosure is a high-quality design for storage of industry standard (EIA/ECA-310), 19" rack-mount hardware, which includes servers, voice, data, networking, power protection equipment, KVM, etc., which are used in the data center rooms. 19" Standing Server Rack is the ultimate solution designed and engineered for demanding data center environments. To achieve optimum versatility within the server rack, users can set multiple depths throughout the rack by adjustable 19" mounting rails mounted on heavy duty side supports. Horizontally divided side panels provide ease of access and convenient post-installation maintenance. Over 78% perforations on front and rear door enable optimum airflow within the rack. Flat-pack option enables savings up to 60% in the transport cost and warehouse space. Please follow the installation instructions closely; assembly should be performed using the recommended tools.

Available RE Series Enclosures

Server Enclosure		Height[RMU]	Height[H]	Width[W]	Depth[D]
Premier	Essential				
REV276100PB	REV276100EB	27	1325	600	1000
REV426100PB	REV426100EB	42	1992	600	1000
REV426110PB	REV426110EB	42	1992	600	1100
REV426120PB	REV426120EB	42	1992	600	1200
REV426127PB	REV426127EB	42	1992	600	1270
REV428100PB	REV428100EB	42	1992	800	1000
REV428110PB	REV428110EB	42	1992	800	1100
REV428120PB	REV428120EB	42	1992	800	1200
REV428127PB	REV428127EB	42	1992	800	1270
REV456100PB	REV456100EB	45	2125	600	1000
REV456110PB	REV456110EB	45	2125	600	1100
REV456120PB	REV456120EB	45	2125	600	1200
REV456127PB	REV456127EB	45	2125	600	1270
REV458100PB	REV458100EB	45	2125	800	1000
REV458110PB	REV458110EB	45	2125	800	1100
REV458120PB	REV458120EB	45	2125	800	1200
REV458127PB	REV458127EB	45	2125	800	1270

Note: ● Above products can be shipped fully assembled or Flat packed
● Customized dimension also optional

Caution:

Before installing this product, please note the following safety information:

1. Always lower the leveling feet of the enclosure.
2. Always install equipment starting from the bottom of the enclosure to the top.
3. Always install the heaviest equipment in the bottom of the enclosure.
4. Always have at least two persons during assembling of the enclosure.

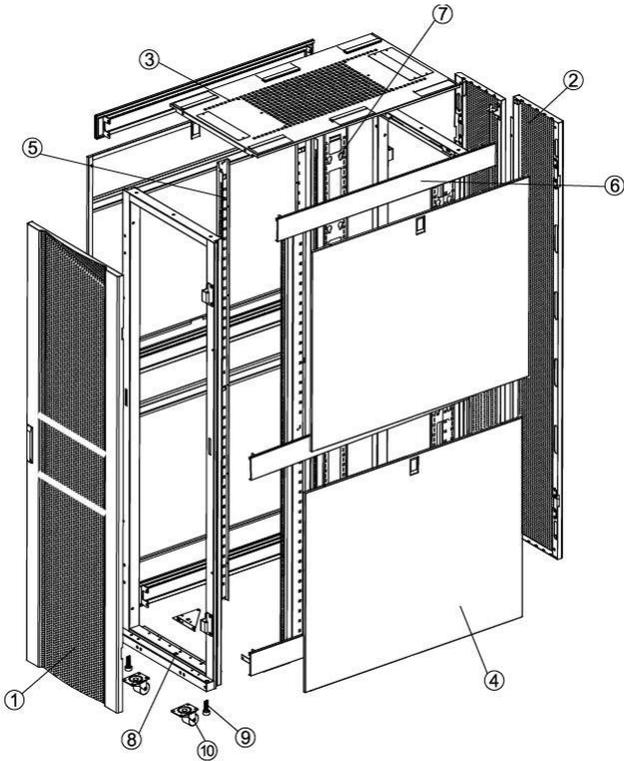
Attention:

Avant d'installer ce produit, veuillez noter les informations de sécurité suivantes :

1. Abaissez toujours les pieds de nivellement de l'enceinte.
2. Installez toujours l'équipement à partir du bas de l'enceinte vers le haut.
3. Installez toujours l'équipement le plus lourd au fond de l'enceinte.
4. Avoir toujours au moins deux personnes lors de l'assemblage de l'enceinte.

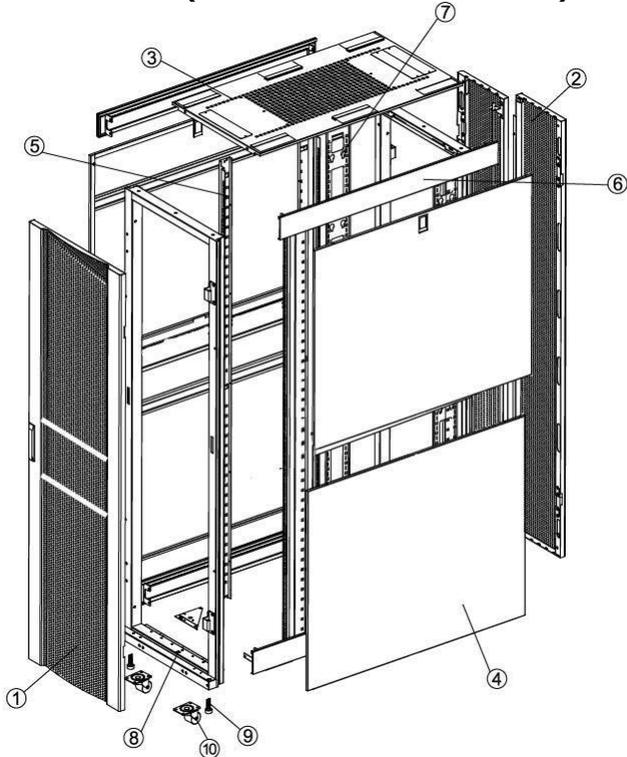
Feature Identification

Premier Model (Model REV426100PB is shown)



	Component	Quantity
1	Front vented door with lock	1
2	Rear door	2
3	Top cover	1
4	Side panel with lock	4
5	Vertical rails	4
6	Horizontal beam	6
7	Cable management rail	2
8	Door frame	2
9	Leveling feet	4
10	2" heavy duty castor	4

Essential Model (Model REV426100EB is shown)



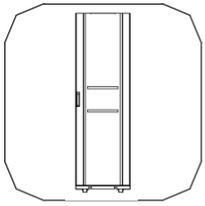
	Component	Quantity
1	Front vented door with lock	1
2	Rear door	2
3	Top cover	1
4	Side panel	2(with lock) 2(without lock)
5	Vertical rails	4
6	Horizontal beam	4
7	Cable management rail	2
8	Door frame	2
9	Leveling feet	4
10	2" heavy duty castor	4

Note: Other models have similar features
Bottom plate option

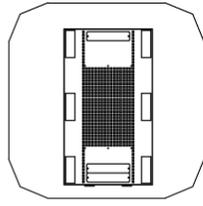
Not Shown: Mounting hardware, documentation, shipping brackets and other shipping materials.

Package in Flat packing

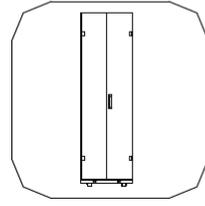
● Main Components



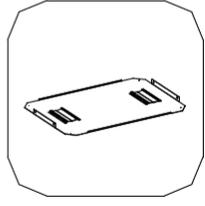
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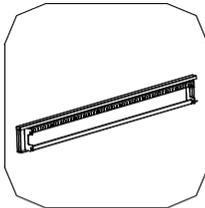
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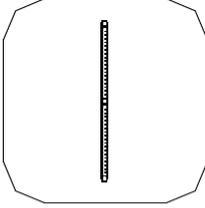
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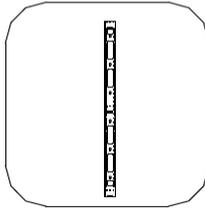
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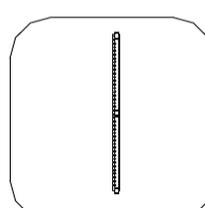
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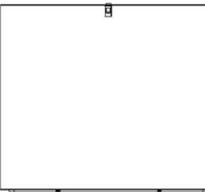
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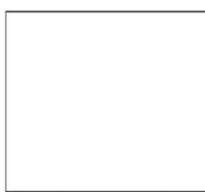
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⑧



⑨



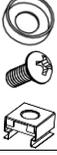
⑩

The flat-pack concept allows shipped enclosures to reduce space which can save container and transportation costs.

Note: Carton B and Carton C put in Carton A

Quantity
1
1
1
1
Quantity
4(EB)&6(PB)
Quantity
2
2
2
Quantity
2(EB)/4(PB)
2(EB)

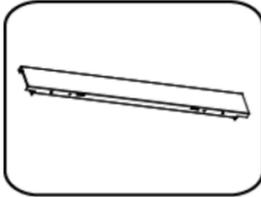
● Accessories

Accessories for installation								
PART NO	QTY				UNIT	SPECIFICATIONS	PICTURE	REMARK
	PB Flat Packing	PB Build up	EB Flat Packing	EB Build up				
M6 floating nut combination	50	50	50	50	PCS	Black zinc plating M6 Cage Nuts (1) Phillips-head Mounting Screws (M6-12 - ZB) (1) M6 Nylon Cup Washers (1)		Equipment installation in EIA rails
Triangle reinforcing plate-Left	2	0	2	0	PCS	T=2.0		
Triangle reinforcing plate-Right	2	0	2	0	PCS	T=2.0		
Cross pan head self-drilling screw	16	0	16	0	PCS	GB/T6560-M5-10-ZI		Triangle reinforcing plate installation S1
Allen flat round head screw	24	0	16	0	PCS	GB/T70.2-M6-12-SUS		Horizontal beams installation S2
Cross pan head self-drilling screw	36	0	24	0	PCS	GB/T6560-M4-8-ZB (Full thread)		Vertical rails and cable tray installation S3
External serrated lock washer	36	0	24	0	PCS	GB/T862.2-#4-ZI		Vertical rails and cable tray installation(Optional) S4
Side Panel lock	4	4	2	2	PCS			
Side panel bracket-Left	0	0	2	0	PCS			Bottom side panel fixing for EB series
Side panel bracket-Left	0	0	2	0	PCS			Bottom side panel fixing for EB series
Cross pan head screw	0	0	8	0	PCS	GB/T818-M6-12-ZB		Side panel bracket installation S5
Other accessories								
RE series Manual	1	0	1	0	PCS			
Allen wrench	1	1	1	1	PCS			Tool
PE bag	1	0	1	0	PCS			
L bracket	2	0	2	0	PCS			Fixed on the pallet
External serrated lock washer	4	0	4	0	PCS	GB/T862.2-#8-ZI		Fixed on the pallet
Hexagon head bolts	4	0	4	0	PCS	GB/T5783-M8-55-ZI		Fixed on the pallet
Hexagonal nut	4	0	4	0	PCS	GB/T6170-M8-ZI		Fixed on the pallet
The big washer	8	0	8	0	PCS	GB/T96.1-#8-ZI		Fixed on the pallet
Spring washer	4	0	4	0	PCS	GB/T93-#8-ZI		Fixed on the pallet
Hexagon head bolts	4	0	4	0	PCS	GB/T5783-M8-25-ZI		Fixed on the pallet
Key	1	1	1	1	SET			Fixed on the pallet

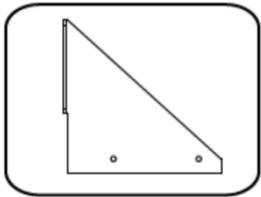
Enclosure Installation---For Flat packing cabinet

● Step 1: Triangle reinforcing plate fixed

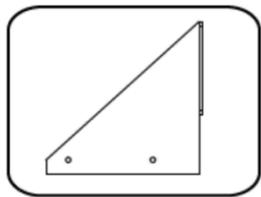
Connect triangle reinforcing plate to the bottom horizontal beams by 8pcs GB/T6560-M5-10-ZI (Cross pan head self-drilling screw) **【S1 in accessories】** .



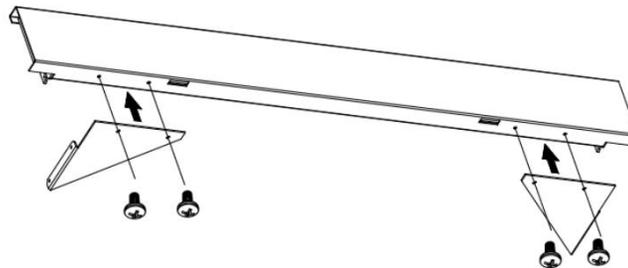
Horizontal beams 2pcs



Triangle reinforcing plate-Right 2pcs

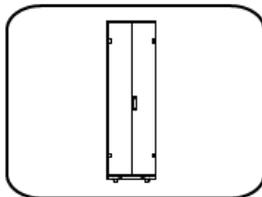


Triangle reinforcing plate-Left 2pcs

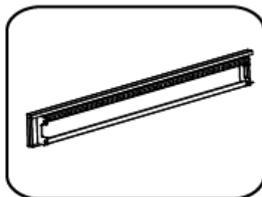


● Step 2: Horizontal beams fixed to the rear door frame

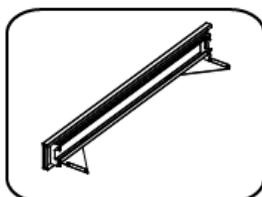
Fixed the each horizontal beam to the rear door frame with 2pcs GB/T70.2-M6-12-SUS(Allen flat round head screw) **【S2 in accessories】** NOTE: 4pcs horizontal beams for EB series cabinet and 6pcs horizontal beams for PB series



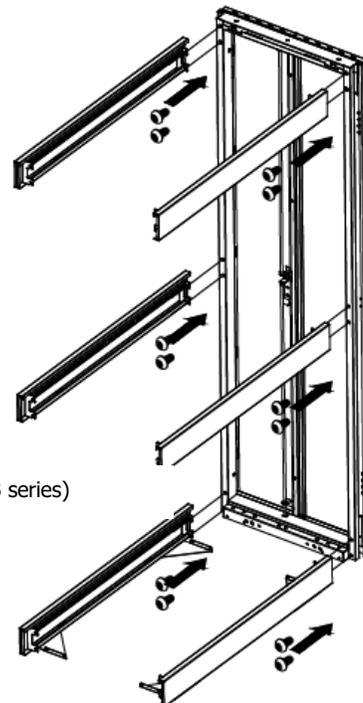
Rear door and rear door frame 1pcs



Top/middle horizontal beams (4pcs for PB series and 2pcs for EB series)

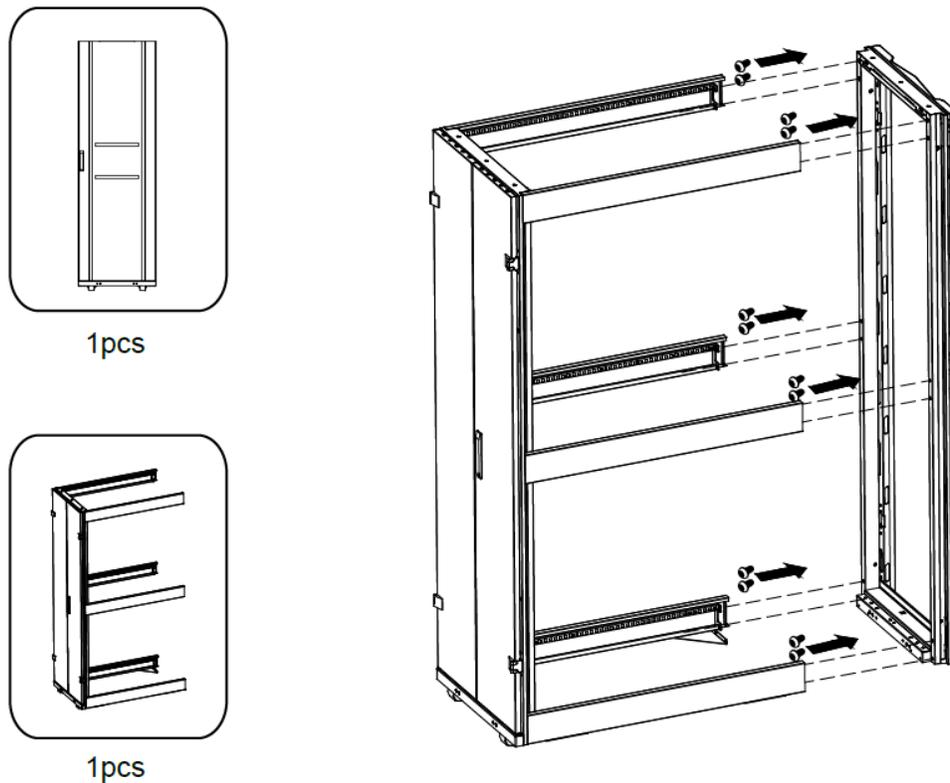


Bottom horizontal beams 2pcs for both PB and EB series



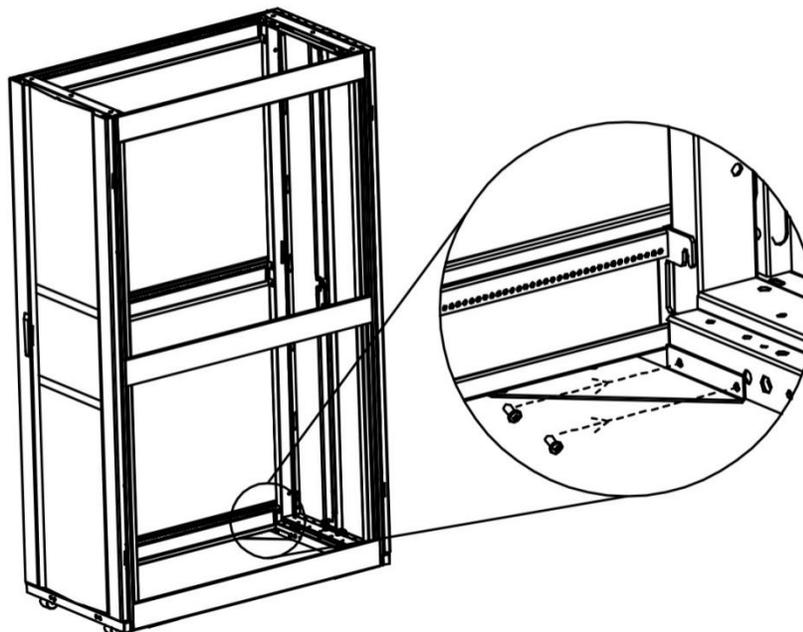
- **Step 3: Horizontal beams fixed to the front door frame**

Fixed the each horizontal beam to the rear door frame with 2pcs GB/T70.2-M6-12-SUS(Allen flat round head screw) **[S2 in accessories]** NOTE: 4pcs horizontal beams for EB series cabinet and 6pcs horizontal beams for PB series(Same way with step 2)



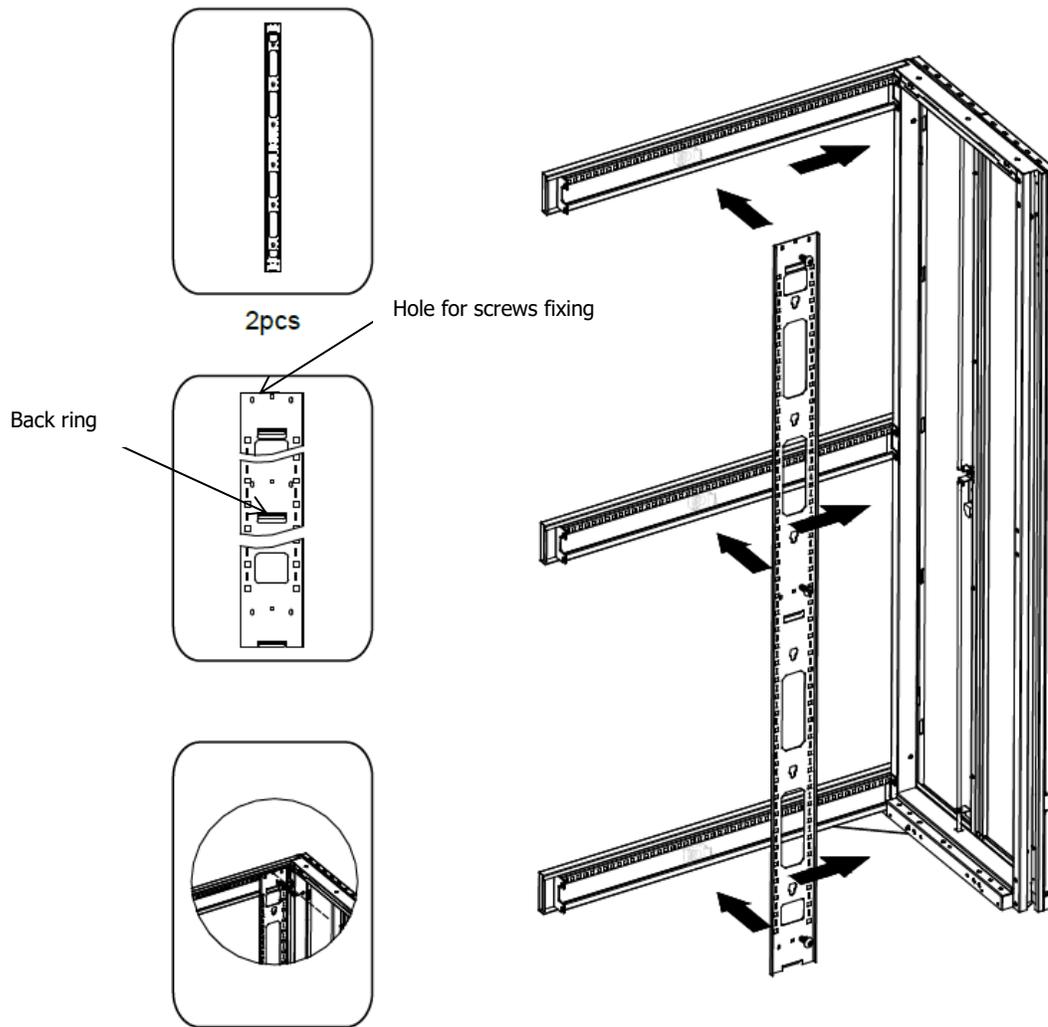
- **Step 4: Fixed the triangle reinforcing plate to the both front and rear door frame**

Connect triangle reinforcing plate to the bottom frame of the front door and rear door by 8pcs GB/T6560-M5-10-ZI (Cross pan head self-drilling screw) **[S1 in accessories]**



● **Step 5: Fixed 2pcs cable management rails to the horizontal beams**

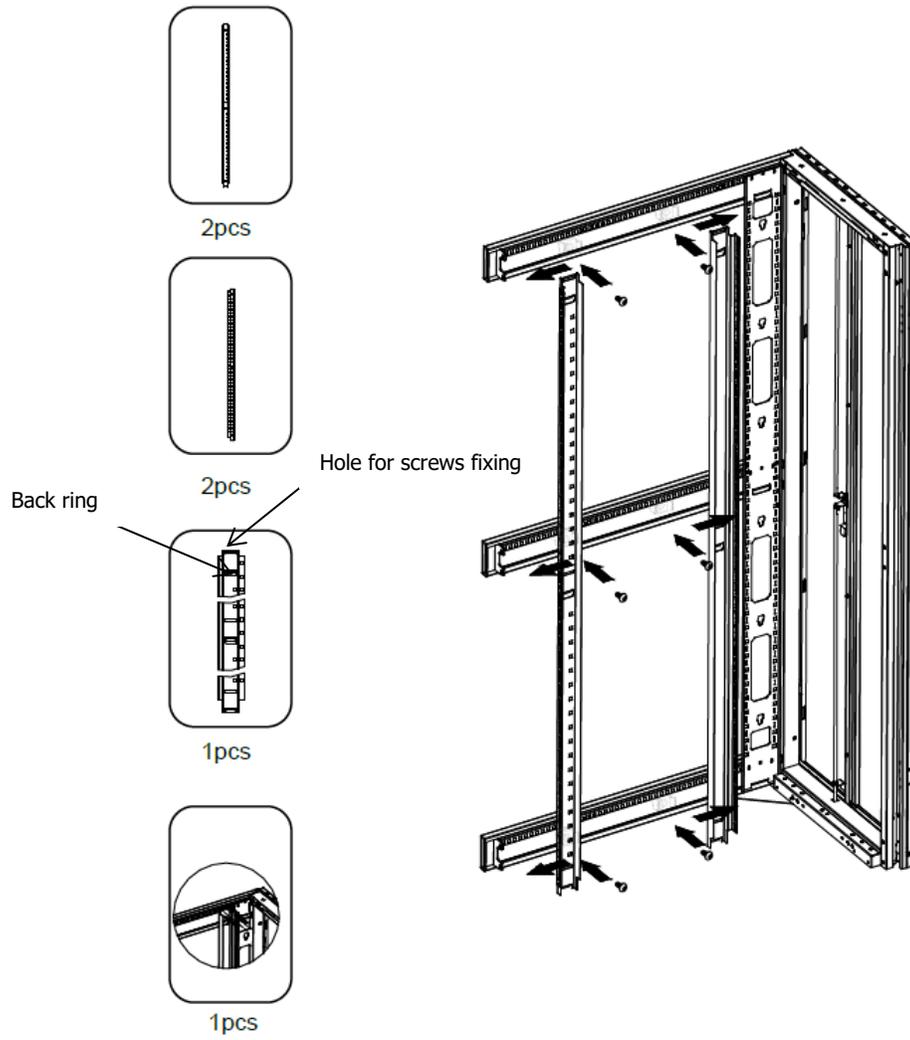
Hang on the cable management rails to the horizontal beams by the back ring. Then fixed the cable tray by GB/T6560-M4-8-ZB (Full thread) (Cross pan head self-drilling screw) **S3** in accessories



Note: 12pcs screws for PB series and 8pcs screws for EB series
(Washer **S4** in accessories optional)

● **Step 6: Fixed 4pcs vertical rails to the horizontal beams**

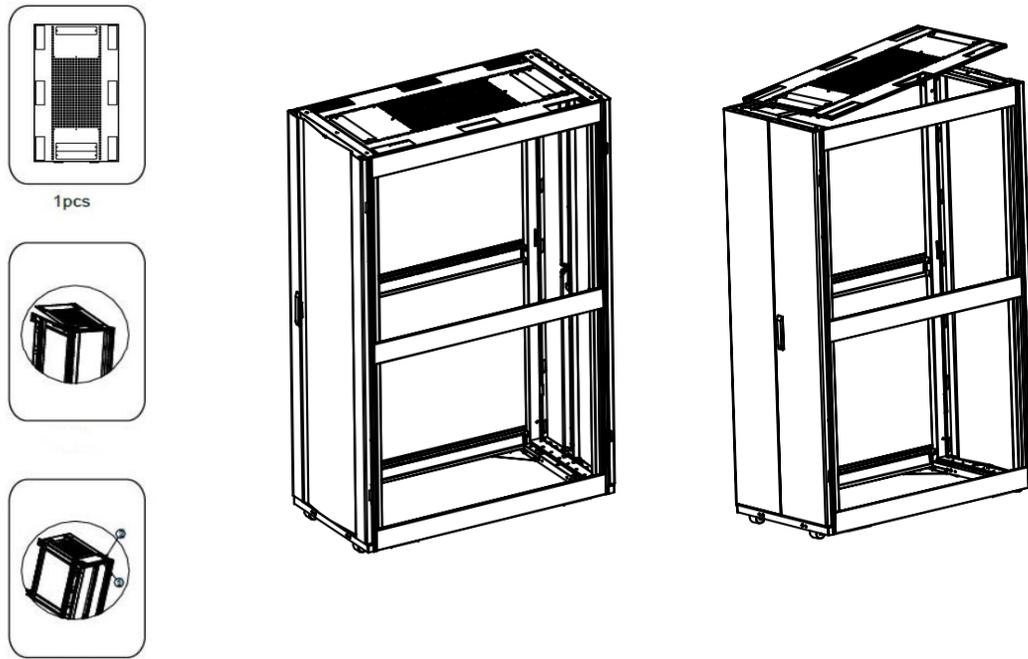
Hang on the vertical rails to the horizontal beams by the back ring. Then fixed the cable tray by GB/T6560-M4-8-ZB (Full thread)
(Cross pan head self-drilling screw) **[S3 in accessories]**



Note: 24 pcs screws for PB series and 16pcs screws for EB series
(Washer **S4 in accessories** optional)

- **Step 7: Fixed the top cover**

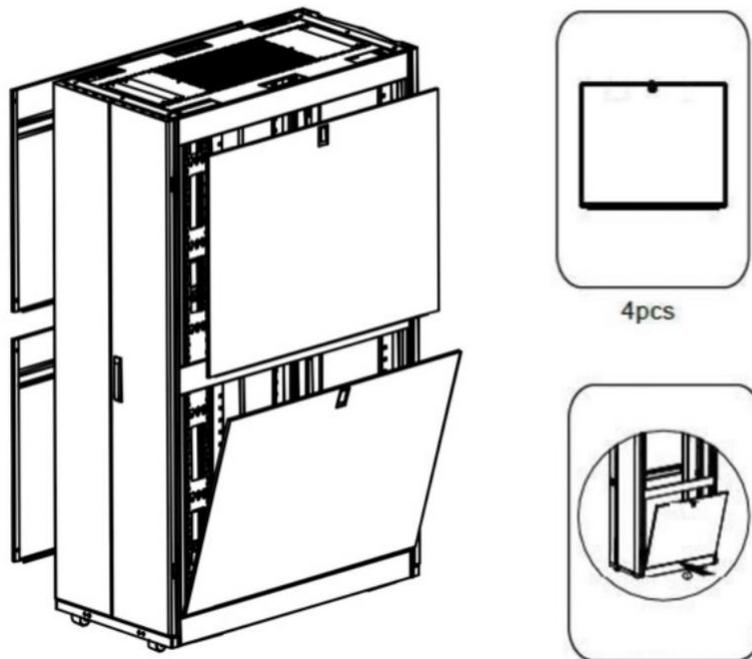
While holding the top cover, arrange the 2 pins near the rear of the top cover into the holes in the enclosure frame. Pull the roof panel downward until it's close to the enclosure frame.



- **Step 8: Side panel installation**

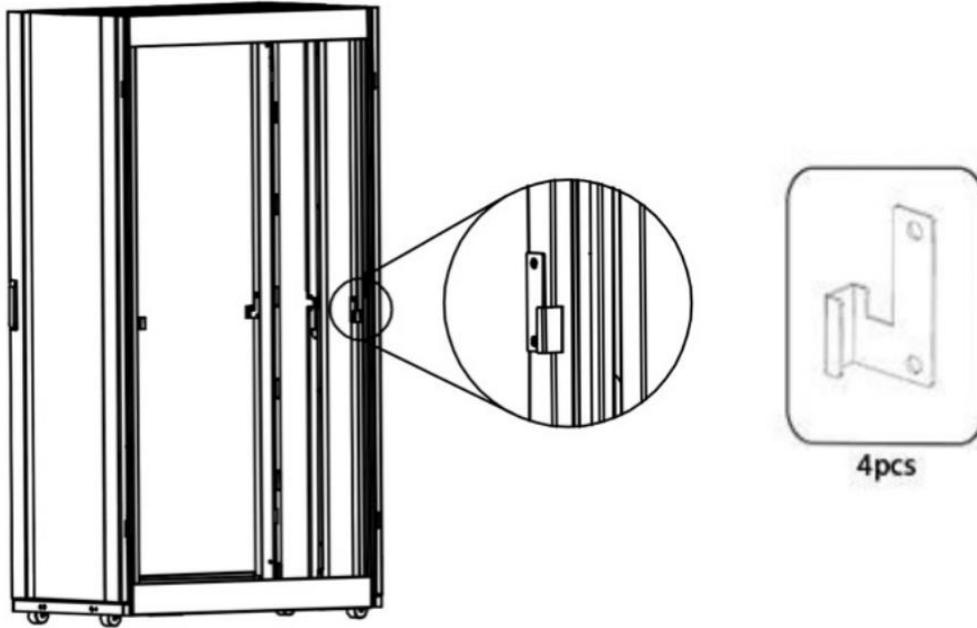
- Option 1. For PB series**

Installation the side panel latch on to the side panel. Open side panel latch by sliding it down and then install the side panels into the frame as below:

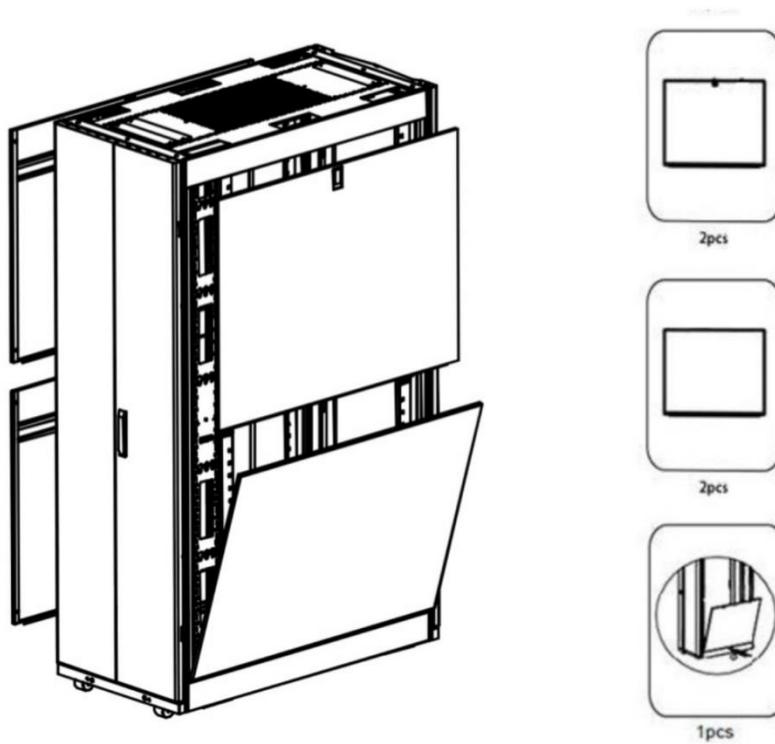


Option 2. For EB series

1. Side panel bracket installation: Fix the side panel bracket to the frame by GB/T818-M6-12-ZB (Cross pan head screw) **【SS in accessories】** 2pcs screws for each bracket and 8pcs for each enclosure.



2. Put the side panel without latch at the bottom (slide from top of the side panel bracket and hang on the bracket).The fixed the top side panel same as that for PB series.



Enclosure Installation--For Build up packing cabinet



Caution! Read All Instructions and Warnings Before Installation!



WARNING: The rack enclosure is extremely heavy. Do not attempt to unpack, move or install the enclosure without assistance. Until it has been properly installed and stabilized, the enclosure is prone to tipping and could cause property damage and/or personal injury. Use extreme caution when handling the enclosure and be sure to follow all handling and installation instructions. Do not attempt to install equipment without first stabilizing the enclosure.

Preparation

The enclosure must be installed in a structurally sound area with a level floor that is able to bear the weight of the enclosure, all the equipment that will be installed in the enclosure and any other enclosures and/or equipment that will be installed nearby. Before unpacking the enclosure, you should transport the shipping container closer to the final installation location to minimize the distance you will need to move the unit after the protective packaging has been removed. If you plan to store the enclosure for an extended period before installation, follow the instructions in the **Storage and Service** section.

You need several tools (user-supplied):

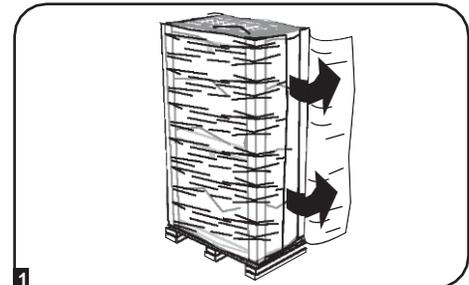
- 13 mm Open-end Wrench
- 18 mm Open-end Wrench
- Utility Blade
- Carpenter's Level
- Phillips-head Screwdriver
- 5/32" Allen Wrench
- Ground wire 8AWG((D=3.2 mm)with proper length, M6 Ring terminal and another end with proper terminal to connect your facility's earth ground

You also need the following hardware (included):

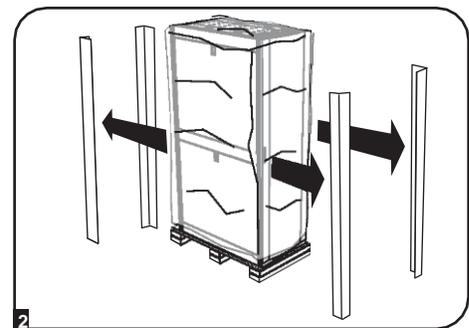
- (50) Phillips-head Mounting Screws (M6 x 5/8")
 - (50) Cage Nuts (M6)
 - (50) Nylon Cup Washers
- [S1 in accessories]**

Unpacking

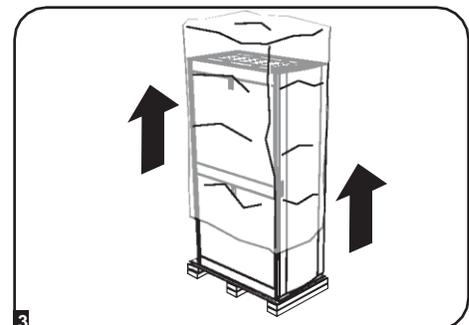
1 Confirm that the shipping container is upright and stable, then use a utility blade to cut the shrink-wrap securing the corner protectors. Apply the utility blade directly over the corner protectors to prevent the utility blade from scratching the enclosure or cutting the heavy protective plastic bag beneath the shrink-wrap. **WARNING: Do not scratch the enclosure or cut the heavy plastic bag beneath the shrink-wrap. Do not push or pull the enclosure while unpacking.**



2 Remove the corner protectors. Save all packing materials (including the pallet) for later use unless you are certain they will not be required. The packing materials are recyclable.

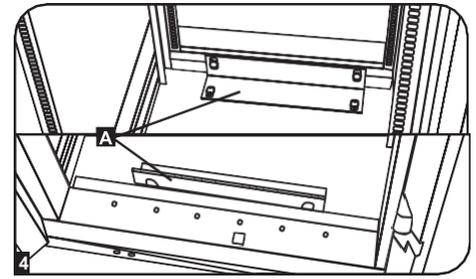


3 Remove the heavy plastic bag surrounding the enclosure. Examine the enclosure for any damage or loose parts. Confirm that all parts are present. If anything is missing or damaged, contact Eaton for assistance. Do not attempt to use the enclosure if it has been damaged.

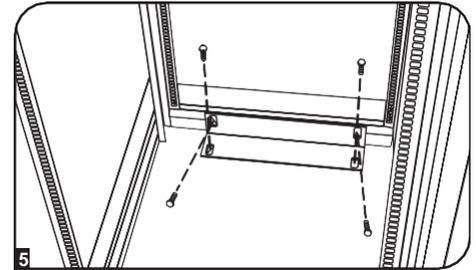


- 4 Open the enclosure's doors directly and locate the 2 shipping brackets **A** that attach the enclosure to the shipping pallet. The brackets are located inside or outside the enclosure.

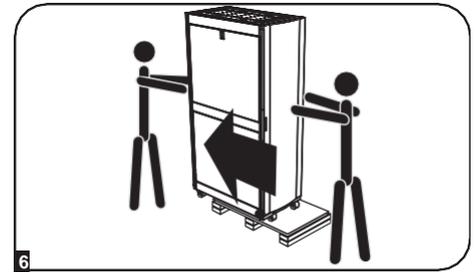
Note: The keys are in the accessories box.



- 5 Use a 13 mm open-end wrench to remove the shipping brackets. Be extremely careful, as the enclosure could shift unexpectedly after bracket removal. Save the brackets and bracket hardware for later use.

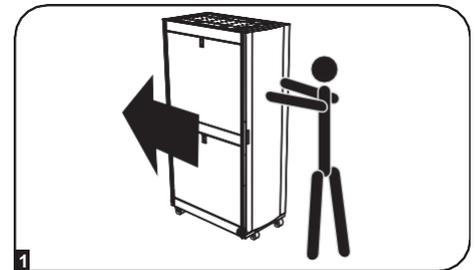


- 6 Position at least one person at the front of the enclosure and one person at the rear of the enclosure. Slowly push the enclosure toward the back of the shipping pallet until all four casters go over the edge of the pallet and touch the floor. **WARNING: Use at least one assistant when removing the enclosure from the pallet. Be extremely careful when moving the enclosure.**



Placement

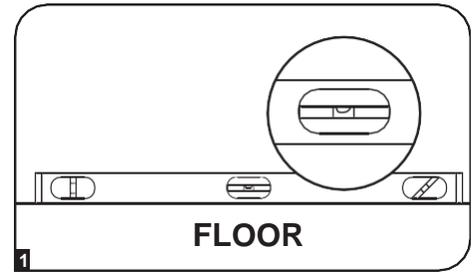
- 1 Use the casters to move the enclosure for a short distance over a level, smooth, stable surface by pushing it from the front or rear (not the side panels). Do not attempt to roll the enclosure over long distances. The enclosure should be moved close to its installation location inside its shipping container before it is unpacked. (Use a forklift or pallet jack to move the shipping container.) **WARNING: Do not push or pull the enclosure at the side panels or pull the enclosure toward you.**



Leveling

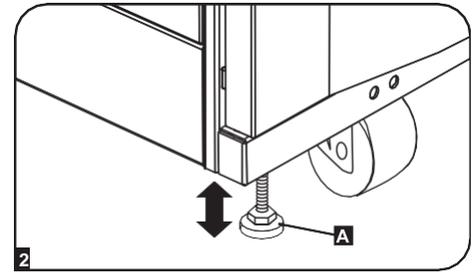
WARNING: Level the enclosure before attempting to install equipment. The casters are not designed to provide long-term support for the enclosure. Use the levelers to provide long-term support. Install the enclosure in a structurally sound area with a level floor that is able to bear the weight of the enclosure, all equipment that will be installed in the enclosure and any other enclosures and/or equipment that will be installed nearby.

1 After the enclosure has been moved to the installation location, use a carpenter's level to check the slope of the floor. If the floor slopes more than 1%, choose an alternate installation site.

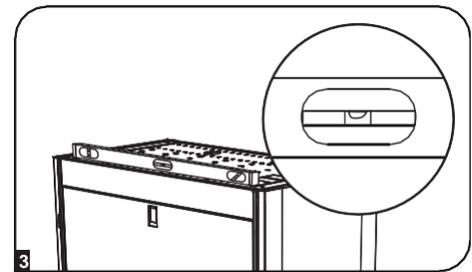


2 Use an 18 mm open-end wrench to lower each leveler **A** until it reaches the floor. (There are 4 levelers, 2 at the front and 2 at the rear.) Make sure each leveler contacts the floor solidly.

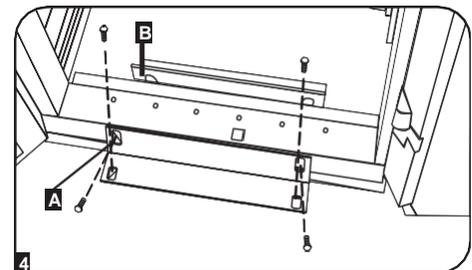
Note: Lower a leveler by turning it clockwise; raise a leveler by turning it counter-clockwise.



3 After lowering each leveler, use the carpenter's level to confirm that the enclosure is level in all directions. Adjust the levelers as required until the enclosure is level.



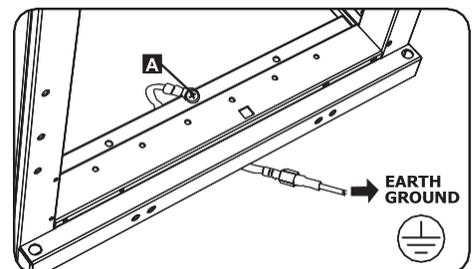
4 In order to secure the cabinet to the building structure for stability, attach the 2 shipping brackets using the hardware that attached the enclosure to the shipping pallet. Use a 13 mm open-end wrench to connect the brackets to the outer **A** or inner **B** bracket mounting points of the enclosure. Attach the brackets to secure mounting points in the floor using user-supplied hardware.



Ground Connection

All the parts of the enclosure are grounded to the frame of the enclosure. Use the enclosure's front or rear threaded grounding point **A** and an M6 screw (included) to connect the frame of the enclosure directly to your facility's earth ground connection with an 8 AWG (D=3.2 mm) wire (user-supplied). Route the ground wire under the enclosure's frame to ensure unhindered door operation.

WARNING: Attach each enclosure to earth ground separately. Do not use the enclosure without an earth ground connection.



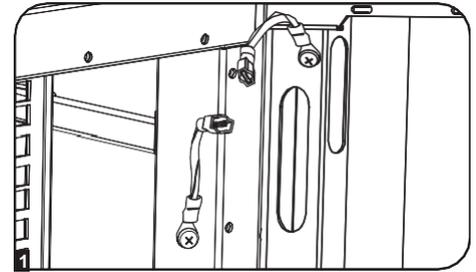
Enclosure Configuration

Adding or Removing Front and Rear Doors

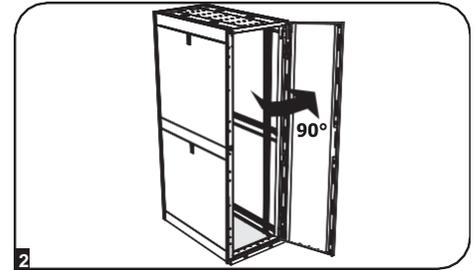
WARNING: Do not attempt to add or remove doors without assistance.

Removing Door

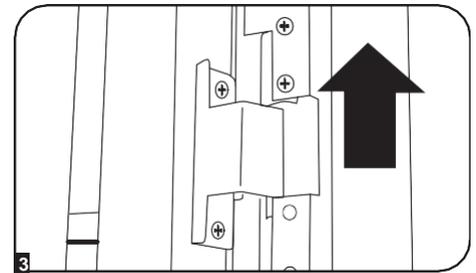
1 Disconnect the door's ground wire.



2 Open the door until it is perpendicular (90 degrees) to the front of the enclosure.



3 Lift the door from the hinges and remove it from the enclosure.



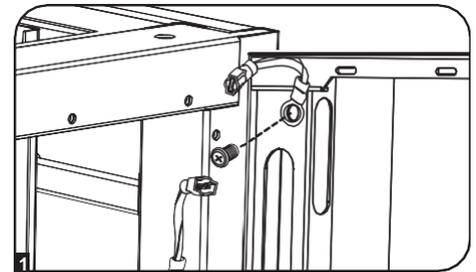
To Reinstall Door, Reverse Steps 1-3

(Optional) If the enclosure is joined to another enclosure, turn the door back toward the enclosure as you lift it from the hinges.

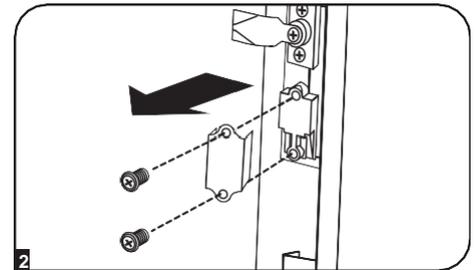
Reversing Front Door

WARNING: Do not attempt to reverse the front door without assistance.

1 Remove the screw connecting the ground wire to the inside of the door.

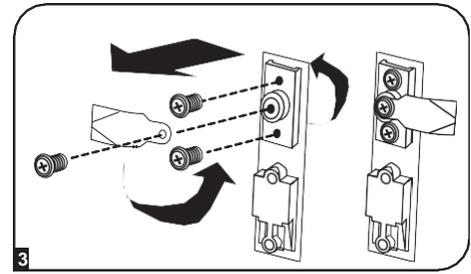


2 Remove the 2 screws connecting the door handle to the door. Remove the door handle.

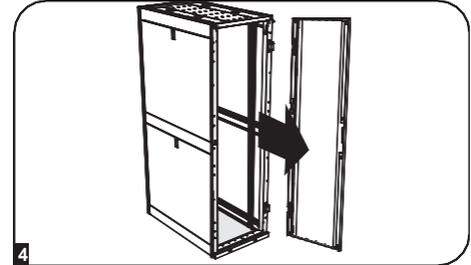


Reversing Front Door (continued)

- 3 Remove the screw and washer from the rear of the door handle and remove the latching mechanism. Rotate the latch washer counter-clockwise 90 degrees and reverse the latch so it points in the opposite direction, then use the screw and washer to re-attach the latch to the rear of the door handle.

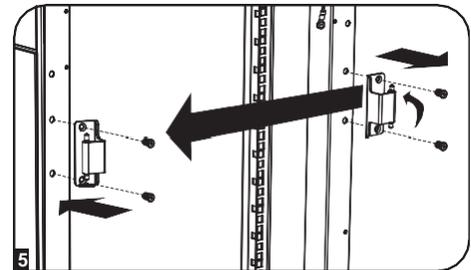


- 4 Remove the door by following the steps in the previous section.

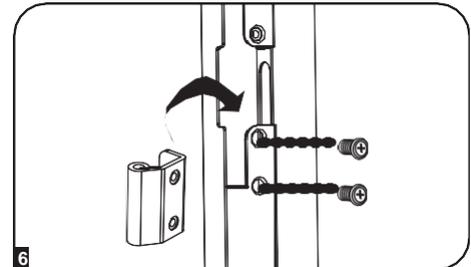


- 5 Remove the door hinges from the enclosure, rotate them 180 degrees and attach them on the opposite side of the enclosure.

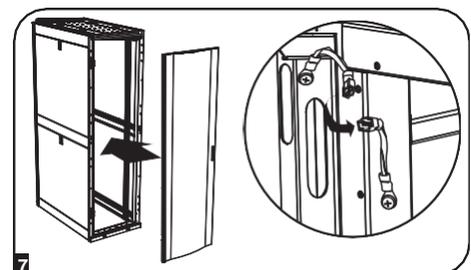
Note: The alternate door hinge attachment points have plastic plugs in the screw holes. Remove the plugs and insert them in the original door hinge attachment points.



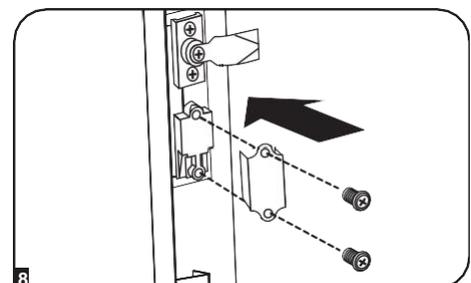
- 6 Unscrew the 2 hinge mechanisms from the hinge openings inside the door, then reattach each of them using the set of screw holes immediately opposite their original position.



- 7 Rotate the door 180 degrees and reinstall it on the enclosure. Remember to connect the ground wire to the inside of the door, using the attachment point nearest the hinge at the top of the door. The attachment point is marked with the ground connection symbol: ⊕.



- 8 Reinstall the door handle.

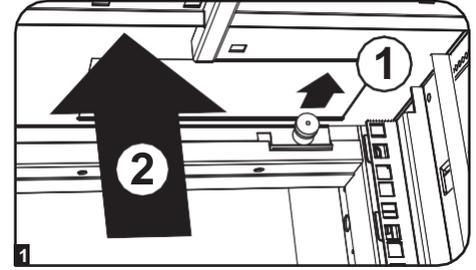


Adding or Removing Roof Panel

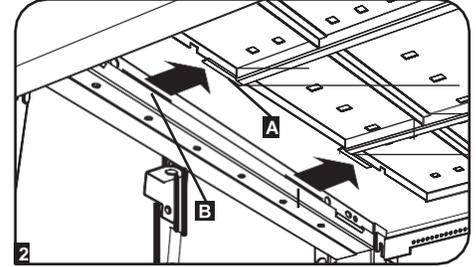
WARNING: Do not attempt to use the roof panel for weight-bearing purposes other than those explicitly described and approved by Eaton. Do not attempt to add or remove the roof panel without assistance.

Removing Roof Panel

1 Pull the 2 pins near the rear of the roof panel. While holding the pins, push the roof panel upward.

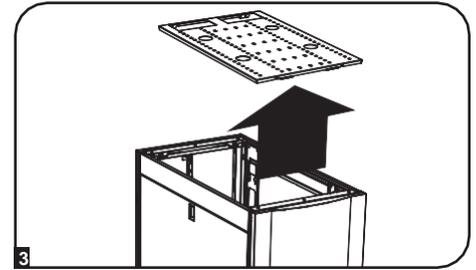


2 Remove the roof panel tabs **A** from the roof panel attachment slots **B** in the enclosure frame.



3 Lift the roof panel from the enclosure.

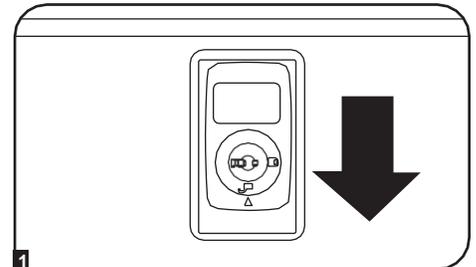
To Reinstall Roof Panel, Reverse Steps 1-3



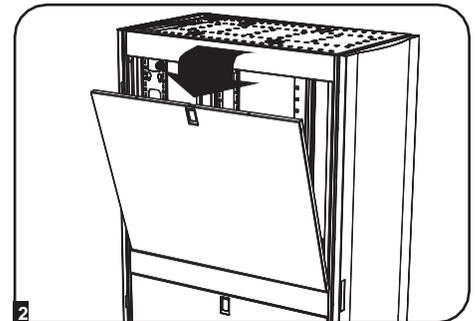
Adding or Removing Side Panels

Removing Side Panel

1 Open the latch by sliding it downward.



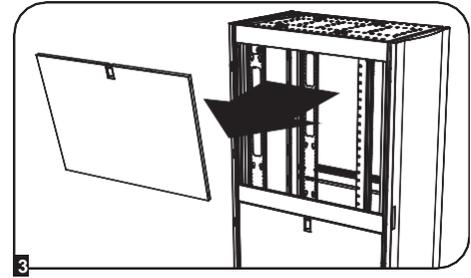
2 Tilt the top of the panel away from the enclosure.



Adding or Removing Side Panels (continued)

- 3 Lift the panel away from the brace that supports it.

To Reinstall Side Panel, Reverse Steps 1-3

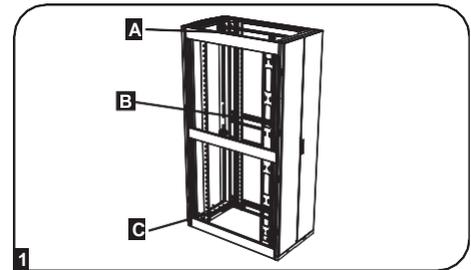


Adjusting Mounting Rails and Cable Management Rails

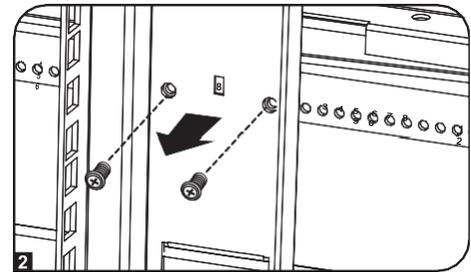
WARNING: Do not attempt to adjust rails without assistance. Do not attempt to adjust rails while equipment is installed in the enclosure. Do not attempt to use rails without screws installed (6 per rail).

The 4 mounting rails are pre-installed to accommodate equipment with a mounting depth of 30 inches (762 mm). Do not adjust the mounting rails unless your equipment requires a different mounting depth. The front and rear sets of rails can be adjusted independently in ¼-inch (6 mm) increments for mounting depths between 4 inches (101.6 mm) and 42 inches (1066.8 mm).

- 1 Each rail is connected to the enclosure with 6 screws - 1 pair at the upper beam **A**, 1 pair at the middle beam **B** and 1 pair at the lower beam **C**.

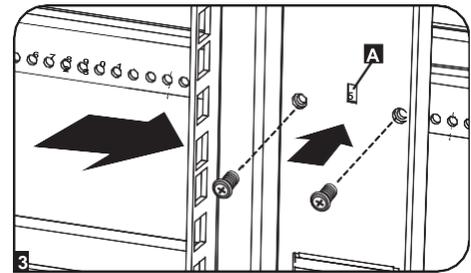


- 2 Remove the screws fastening each of the rear mounting rails to the enclosure. (If adjustment of the front rails is required, you can also remove the screws from the front rails.)



- 3 Slide the mounting rails to the desired depth and reattach them using the screws you removed in Step 2. The rail attachment points are numbered **A** to help you align each pair of rails at the same depth.

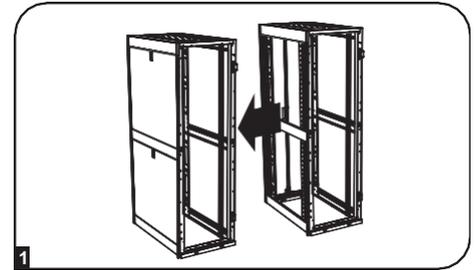
The depth of the 2 cable management rails can be adjusted using the same method.



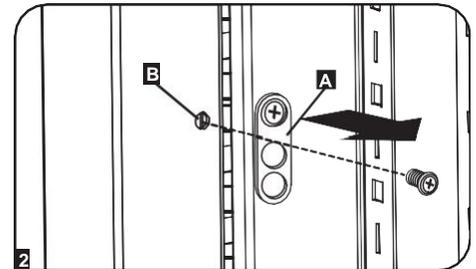
Combining (Baying) Enclosures

WARNING: Combining enclosures is not a substitute for stabilizing the enclosures. Each enclosure in a bay of combined enclosures requires the same stabilizing measures as a standalone enclosure.

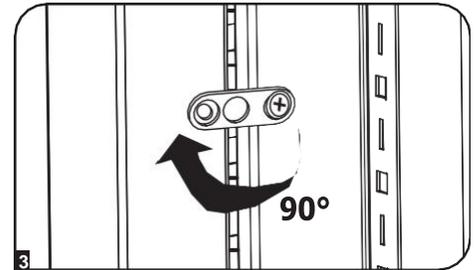
1 Arrange the enclosures in the correct position for baying.



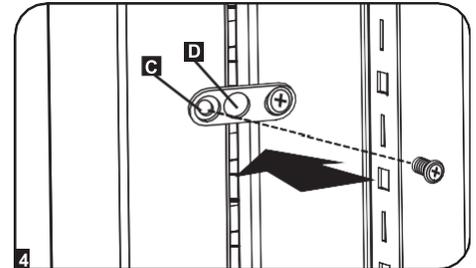
2 Each enclosure includes 4 baying brackets **A** that correspond to baying connection points **B** on the adjoining enclosure. The baying connection points already contain screws. Remove the screw from each baying connection point in the adjoining enclosure.



3 Loosen the screw in each baying bracket and turn each bracket 90 degrees toward the adjoining enclosure, aligning each bracket with the corresponding baying connection point on the adjoining enclosure.



4 Connect each bracket to the adjoining enclosure using the screws you removed in step 2, but do not tighten the screws completely. Adjust the position of the enclosures as needed. If you want the centers of the enclosures to be 24 inches (61 cm) apart/29.9 inches (76 cm), use the outside hole of the bracket **C**. If you want the centers to be 60 cm (23.6 inches) apart/75 cm (29.5 inches), use the middle hole of the bracket **D**. After connecting all brackets and confirming that the enclosures do not need further adjustment, tighten all screws.

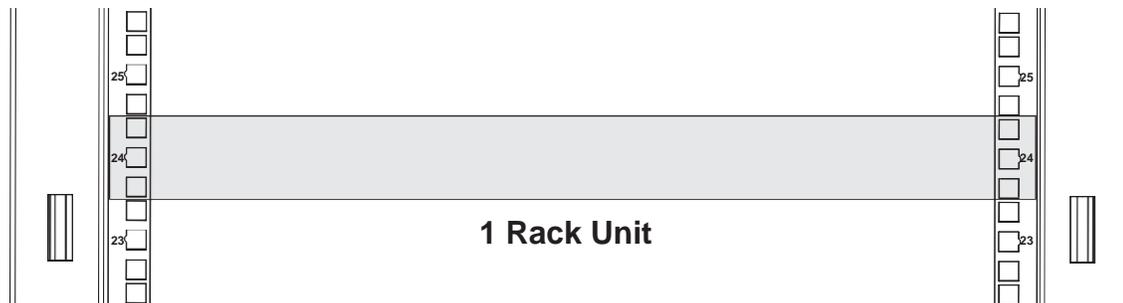


Note: You may wish to remove the doors from the enclosures before combining them. Reinstalling the doors afterward is optional. Remove the interior side panels before baying enclosures if you wish to enable access between enclosures.

Equipment Installation

WARNING: Do not install equipment until you have stabilized the enclosure. Install heavier equipment first and install it toward the bottom of the enclosure. Install equipment starting from the bottom of the enclosure and proceeding toward the top of the enclosure - never the reverse. If using sliding equipment rails, be careful when extending the rails. Do not extend more than one set of sliding equipment rails at one time. Avoid extending sliding equipment rails near the top of the enclosure.

Note: The square holes at the middle of each rack unit are numbered and also include a small notch to aid identification. A single rack unit includes the space occupied by the numbered hole and the holes directly above and below.



Installing or Removing Cage Nuts

WARNING: The flanges of the cage nuts should engage the sides of the square opening in the rail, not the top and bottom. Follow the instructions in your equipment documentation to ensure proper installation of your equipment.

Installing Cage Nuts

- 1 Locate the numbered square openings in the mounting rails where you plan to install your equipment. You will install cage nuts (included) into the square openings in order to provide an attachment point for the mounting screws (included).

Note: Consult your equipment documentation to determine how many cage nuts will be required and where they will need to be installed.

- 2 From the inside of the mounting rail, insert one of the flanges of the cage nut through the square opening. Press it against the side of the square opening. Each flange should engage one side of the square opening, not the top or bottom.

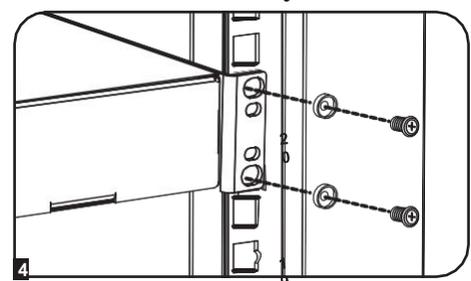
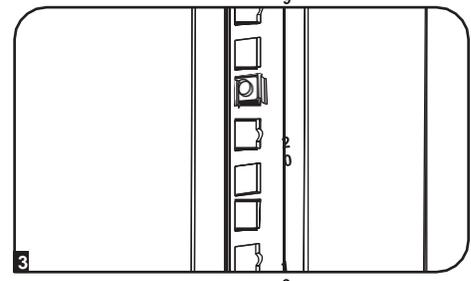
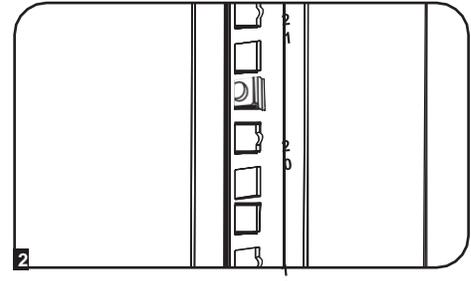
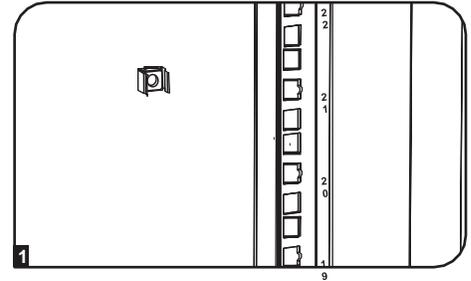
- 3 Compress the cage nut at the sides slightly to allow the remaining flange to fit through the square opening. When the cage nut is properly installed, both flanges will protrude through the square opening and will be visible on the outer surface of the mounting rail. Repeat steps 1-3 until all required cage nuts are installed.

- 4 After installing the required cage nuts, use the included mounting screws and cup washers to secure your equipment to the rack rail. Place the cup washers between the screws and the equipment mounting brackets.

Note: Your equipment may also include mounting hardware. Read the mounting instructions that came with your equipment before installing your equipment.

To Remove Cage Nuts, Reverse Steps 1-3

Note: You may wish to use a cage nut tool (user-supplied) to aid cage nut installation and removal.



Storage and Service

Storage

The enclosure should be stored in a controlled indoor environment, away from moisture, temperature extremes, flammable liquids and gasses, conductive contaminants, dust and direct sunlight. Store the enclosure in its original shipping container if possible.

Service

Your Eaton product is covered by the warranty described in this manual. A variety of Extended Warranty and On-Site Service Programs are also available from Eaton. For more information on service, visit Eaton.com/support. Before returning your product for service, follow these steps:

1. Review the installation and operation procedures in this manual to insure that the service problem does not originate from a misreading of the instructions.
2. If the problem continues, do not contact or return the product to the dealer. Instead, visit Eaton.com/support.
3. If the problem requires service, visit Eaton.com/support and click the Product Returns link. From here you can request a Returned Material Authorization (RMA) number, which is required for service. This simple on-line form will ask for your unit's model and serial numbers, along with other general purchaser information. The RMA number, along with shipping instructions will be emailed to you. Any damages (direct, indirect, special or consequential) to the product incurred during shipment to Eaton or an authorized Eaton service center is not covered under warranty. Products shipped to Eaton or an authorized Eaton service center must have transportation charges prepaid. Mark the RMA number on the outside of the package. If the product is within its warranty period, enclose a copy of your sales receipt. Return the product for service using an insured carrier to the address given to you when you request the RMA.

Warranty

3-Year Limited Warranty

Seller warrants this product, if used in accordance with all applicable instructions, to be free from original defects in material and workmanship for a period of 3 years from the date of initial purchase. If the product should prove defective in material or workmanship within that period, Seller will repair or replace the product, in its sole discretion.

THIS WARRANTY DOES NOT APPLY TO NORMAL WEAR OR TO DAMAGE RESULTING FROM ACCIDENT, MISUSE, ABUSE OR NEGLIGENCE. SEBLER MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY EXPRESSLY SET FORTH HEREIN. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ALL IMPLIED WARRANTIES, INCLUDING ALL WARRANTIES OF MERCHANTABILITY OR FITNESS, ARE LIMITED IN DURATION TO THE WARRANTY PERIOD SET FORTH ABOVE; AND THIS WARRANTY EXPRESSLY EXCLUDES ALL INCIDENTAL AND CONSEQUENTIAL DAMAGES. (Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from jurisdiction to jurisdiction).

WARNING: The individual user should take care to determine prior to use whether this device is suitable, adequate or safe for the use intended. Since individual applications are subject to great variation, the manufacturer makes no representation or warranty as to the suitability or fitness of these devices for any specific application.

Note on Labeling

This symbol is used on the product:  Ground Connection