

Matrix 2019

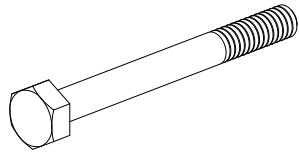
Date	Page No.	Description of change	Name
11/19/19	1-24	Released	S. Powers
3/9/2020	8	Added note for medium torque	S. Powers
7/29/2020	23	Added note for orientation of roll pin	S. Powers

Tools needed:

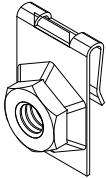
- Cordless drill with #2 Philips drive tip
- 7/16" Socket driver for cordless drill
- 5/32" Allen for cordless drill
- Ratchet with 7/16" socket
- Philips screw driver #1 and #2
- Flat head screw driver #1 and #2
- Mallet
- Level
- Tape Measure

Matrix 2019

Required hardware:



1/4-20 x 2 1/4" Hex Bolt
#RP-M2BOLT1
Use 7/16" magnetic hex drive
82H Frame = 5 bolts
50-66H Frame = 4 bolts
34-42H Frame = 3 bolts



1/4-20 Tinnerman Nut
#RS-HNC33892
(Factory installed, on one side of frame. Installers may be required to remove from frames if connecting to 2-way, 3-way or 4-way connector)

90° Frame Connection

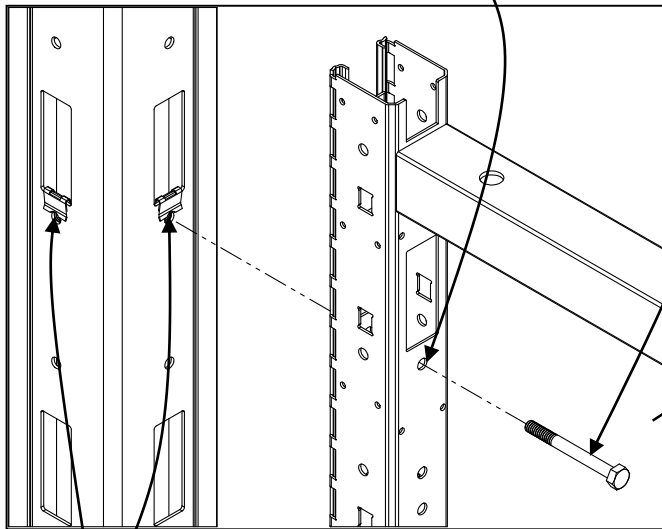
IMPORTANT INSTRUCTIONS:



- Place first bolt at top of frame, below first electrical chase hole. This hole is round and will align frames vertically. All other bolt locations are slots.
- Thread all bolts loosely, making sure bolts are properly threaded to prevent cross-stripping. Tighten top bolt first, then tighten all remaining bolts to approx. 100 inch lbs torque, or using a 12 volt drill on medium torque.

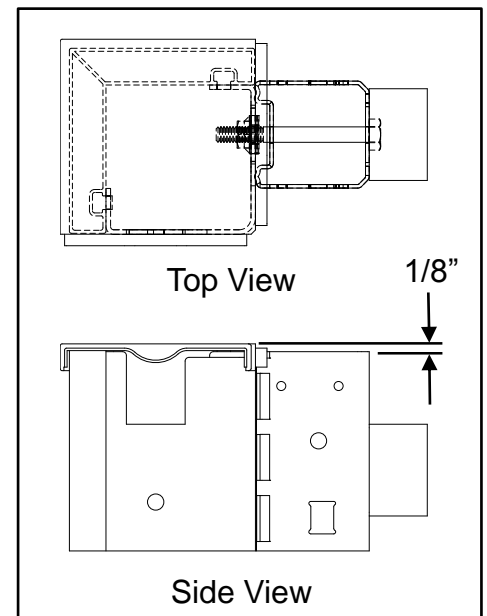
If necessary, remove
1/4-20 Tinnerman Nut
located on frames prior to
bolting on connector

1/4-20 x 2 1/4" Hex Bolt
First bolt must be installed at
top of frame to ensure proper
vertical alignment



1/4-20 Tinnerman Nut
May have moved during shipping.
To re-center, briefly insert
#2 philips screw driver through
connector hole into the
tinnerman nut.

90° Connector
(2-way, 3-way or 4-way)



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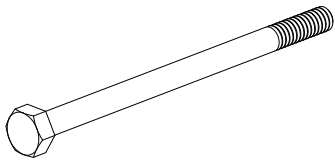
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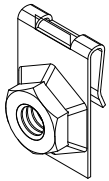
Matrix 2019

Straight Frame Connection

Required hardware:



1/4-20 x 4" Hex Bolt
#RP-M2 BOLT2
 82H Frame = 5 bolts
 50-66H Frame = 4 bolts
 34-42H Frame = 3 bolts
 Use 7/16" magnetic hex drive

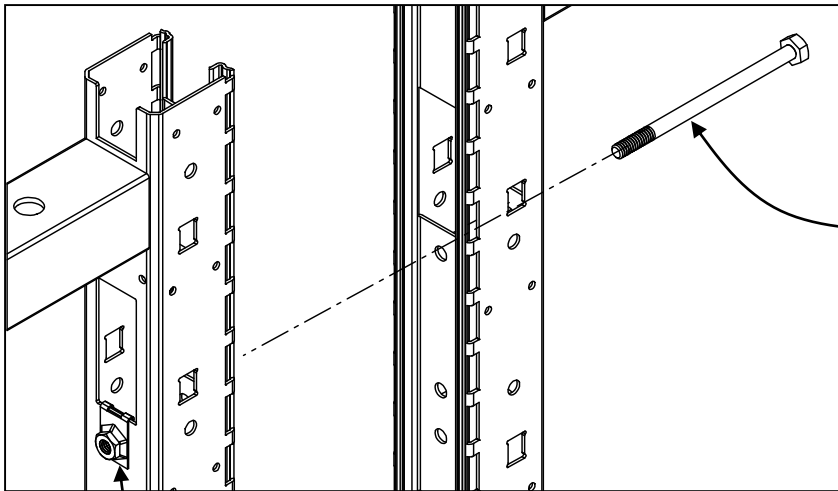


1/4-20 Tinnerman Nut
#RS-HNC33892
 (Factory installed on one side only.
 Installers may be required to remove if
 connecting to 2-way, 3-way or
 4-way connector)

IMPORTANT INSTRUCTIONS:



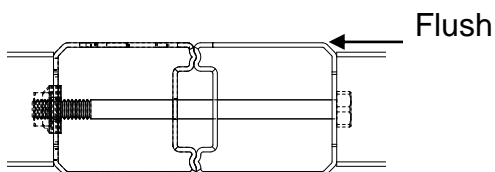
- Line up frames, adjust glides as necessary to ensure frames are approximately the same height.
- Place first bolt at top of frame, below first electrical chase hole. This hole is round and will align frames vertically. All other bolt locations are slots.
- Thread all bolts loosely, making sure bolts are properly threaded to prevent cross-stripping. Tighten top bolt first, then tighten all remaining bolts to approx. 100 inch lbs torque, or using a 12 volt drill on medium torque.



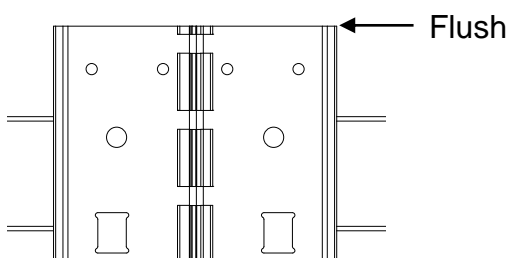
1/4-20 x 4" Hex Bolt
 First bolt must be installed at
 top of frame to ensure proper
 vertical alignment



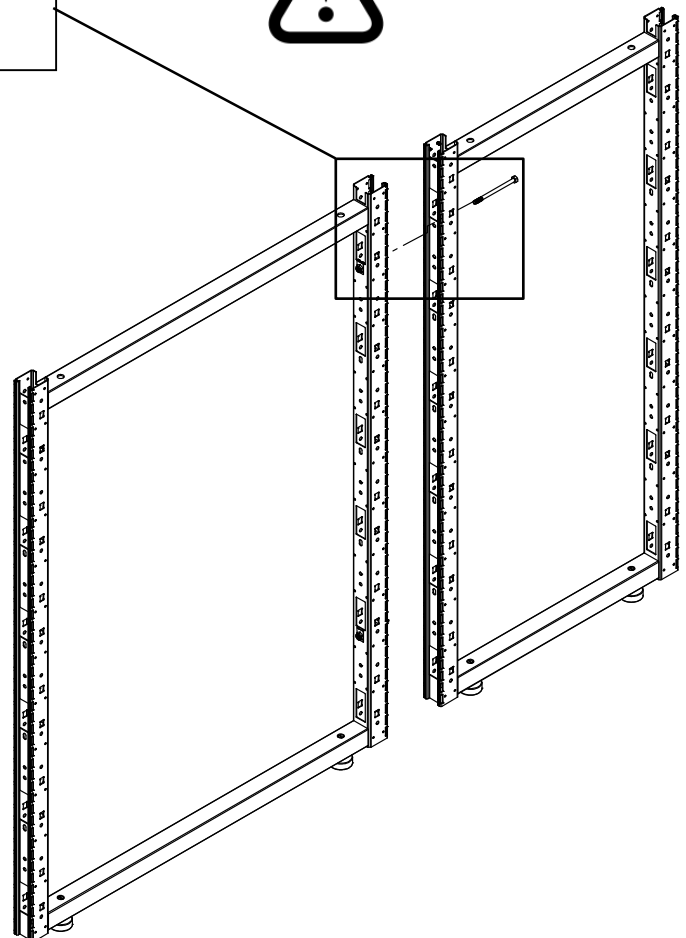
1/4-20 Tinnerman Nut
 May have moved during shipping.
 To re-center, briefly insert #2
 philips screw driver through frame
 hole into the tinnerman nut.



Top View

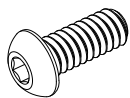


Side View



Matrix 2019

Required hardware:



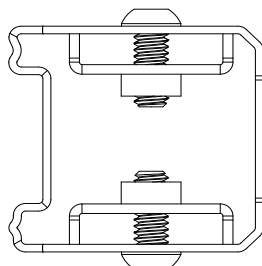
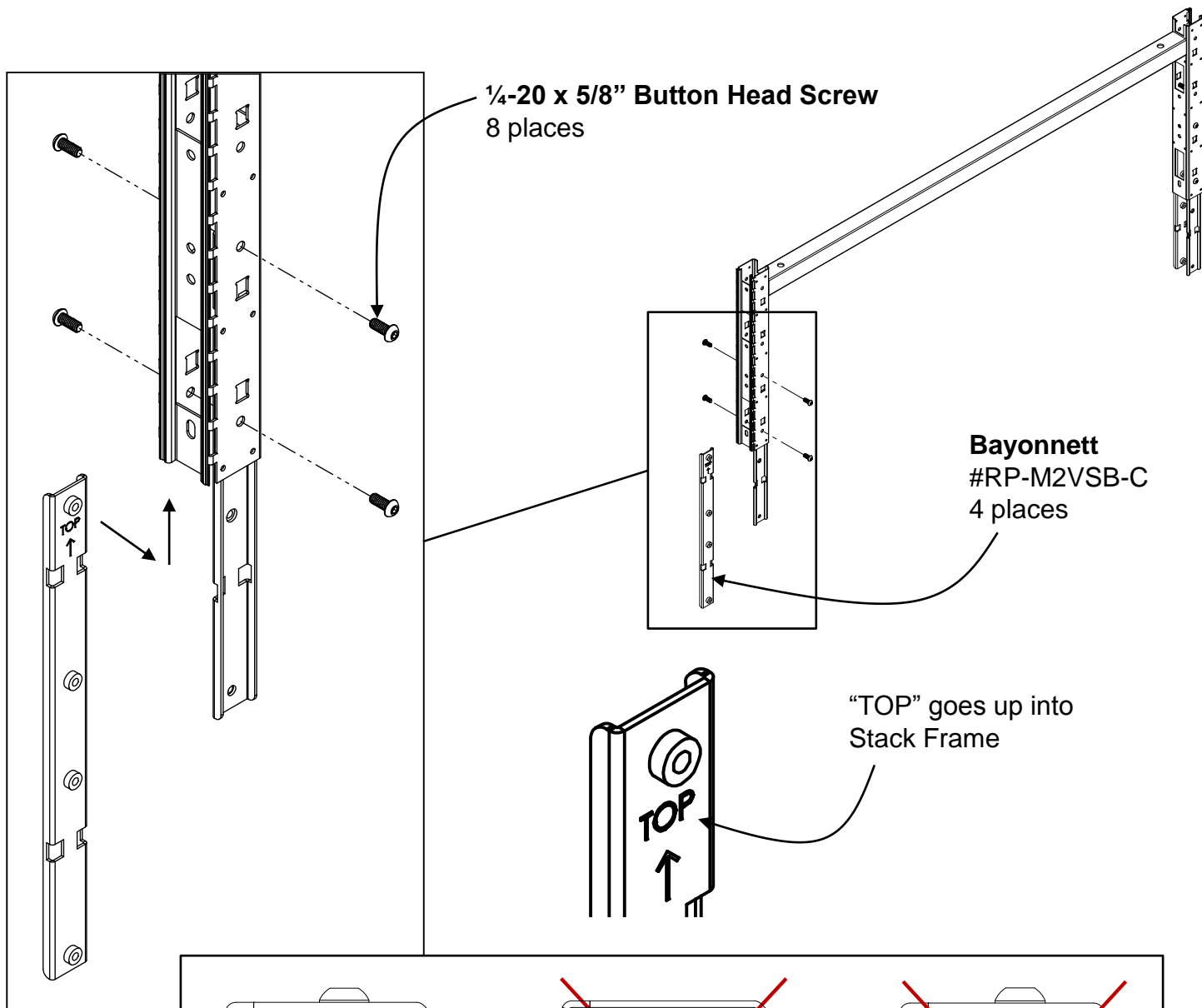
1/4-20 x 5/8" Button Head Screw
#RP-M2BOLT3
Use with 5/32 allen wrench
16 places

Stack-On Frame Assembly

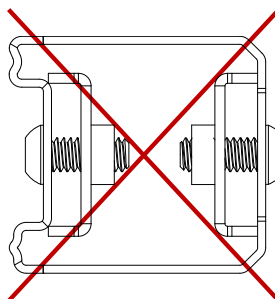
IMPORTANT INSTRUCTIONS:



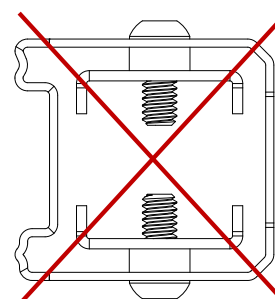
- Make sure screws are properly threaded into bayonett before tightening.



CORRECT



INCORRECT

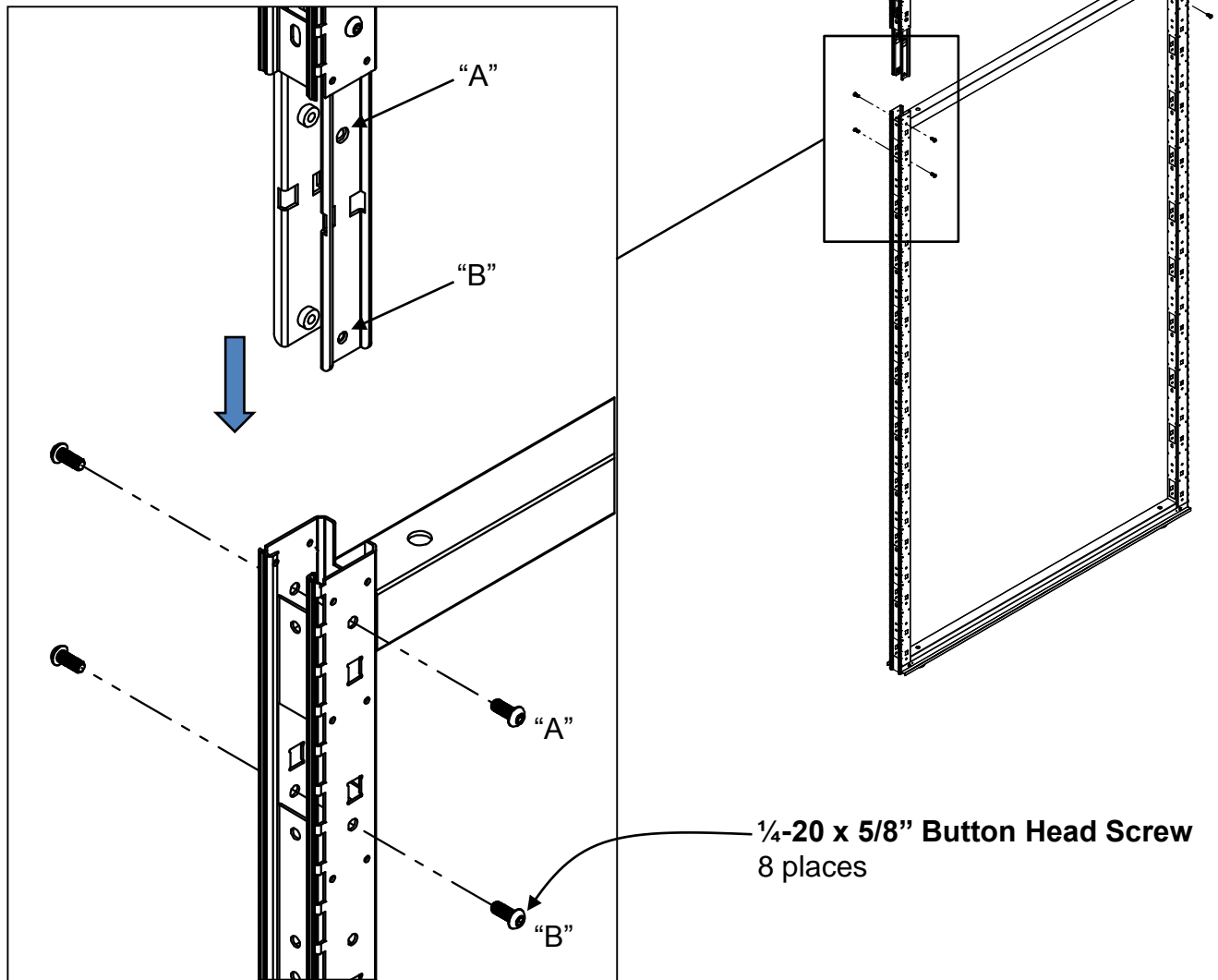


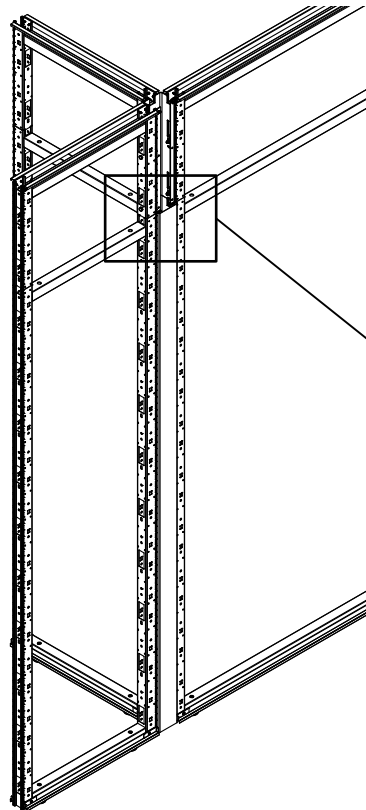
INCORRECT

IMPORTANT INSTRUCTIONS:



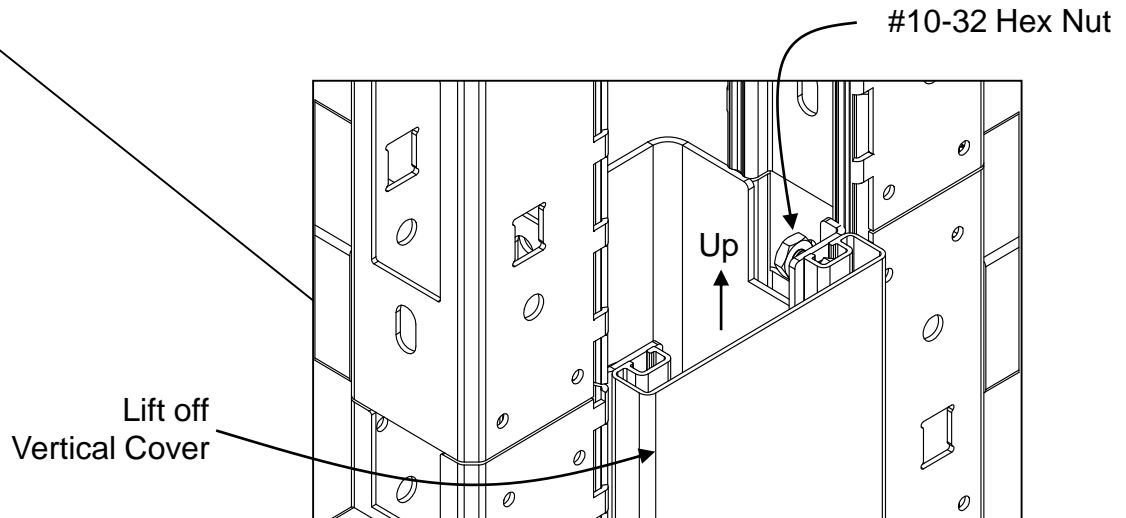
- Make sure screws are properly threaded into bayonett before tightening
- Stack-On Frames may be retrofit over cables run in top cap channel. USE CAUTION to avoid damaging cables



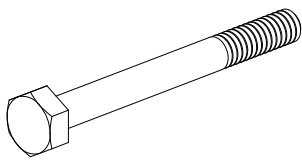


Remove Base Connector Vertical Cover:

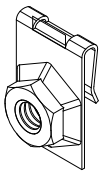
1. Remove and save #10-32 Hex Nuts and Bolts at top of Connector (2 places)
2. Slide Vertical Cover up approximately $\frac{3}{4}$ " to release it from the bottom tabs.



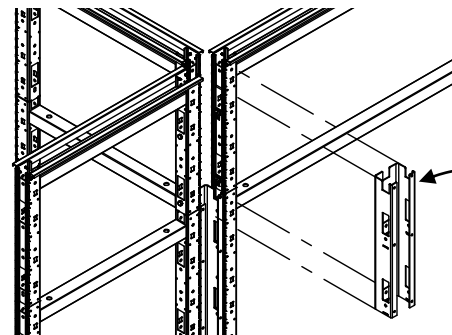
Required hardware:



1/4-20 x 2 1/4" Hex Bolt
#RP-M2BOLT1
 Use 7/16" magnetic hex drive
 2-way Connection = 4 bolts
 3-way Connection = 6 bolts
 4-way Connection = 8 bolts



1/4-20 Tinnerman Nut
#RS-HNC33892
 (Factory installed, on one side of frame. Installers may be required to remove from frames if connecting to 2-way, 3-way or 4-way connector)



Stack-On Connector

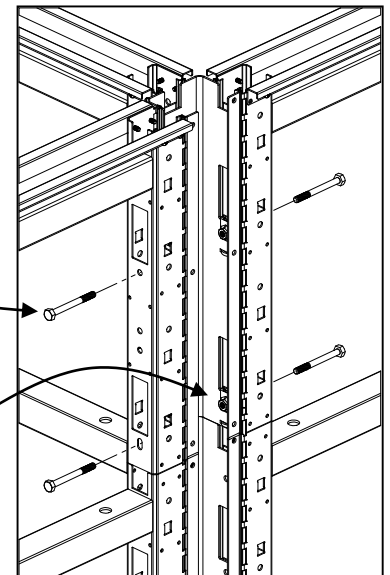
IMPORTANT INSTRUCTIONS:

- Place first bolt at top of frame, below first electrical chase hole. This hole is round and will align frames vertically. All other bolt locations are slots.
- Thread all bolts loosely, making sure bolts are properly threaded to prevent cross-stripping. Tighten top bolt first, then tighten all remaining bolts to approx. 100 inch lbs torque, or using a 12 volt drill on medium torque.

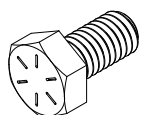


1/4-20 x 2 1/4" Hex Bolt
 First bolt must be installed at top of frame to ensure proper vertical alignment

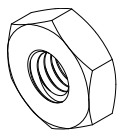
1/4-20 Tinnerman Nut
 May have moved during shipping. To re-center, briefly insert #2 philips screw driver through connector hole into the tinnerman nut.



Required hardware:



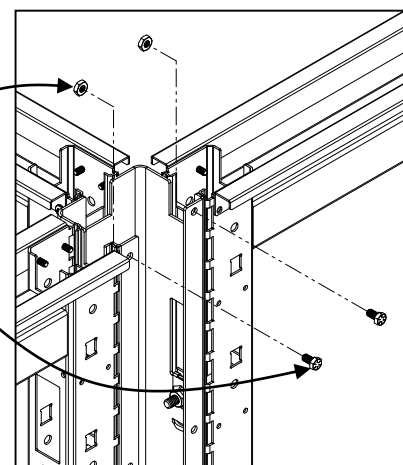
#10-32 x 3/8" Hex Head Bolt
#RP-MXCONBOLT
 Use 5/16" hex drive



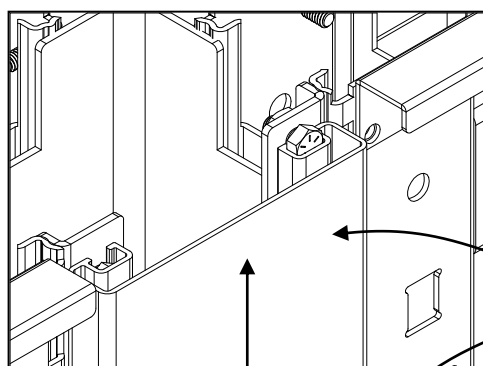
#10-32 Hex Nut
#RP-MXCONNUT
 Use 3/8" hex drive

Install (taller) Base Connector Vertical Cover:

1. LOOSELY re-install #10-32 Hex Nut and Bolts onto Stack-On Connector

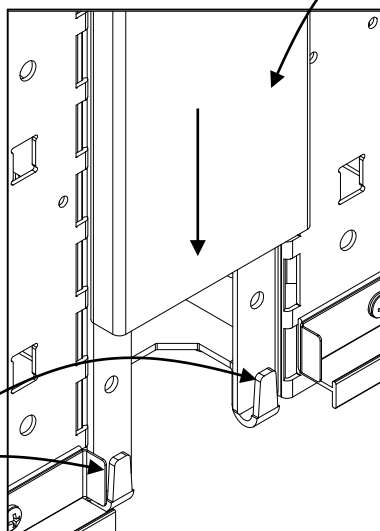


2. Slide Vertical Cover up, making sure to capture Hex Bolt heads on the Connector Top, into the grooves on the vertical cover.

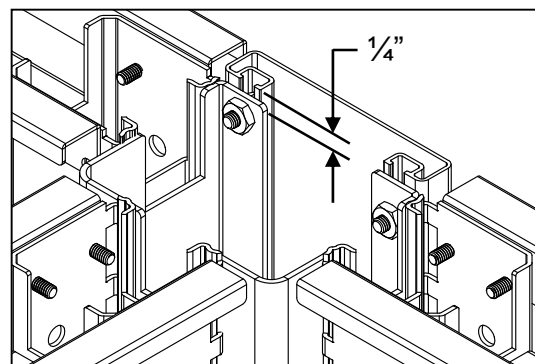


Vertical Cover

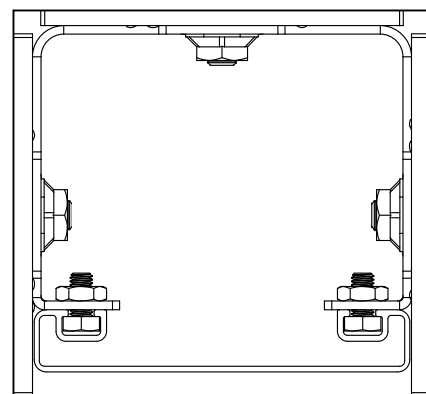
3. Slide the Vertical Cover back down, making sure to capture the tabs on the bottom of the Connector. Vertical Cover must be 1/4" from top of Connector



Tabs



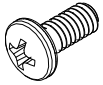
4. Tighten #10-32 Hex Nuts to Secure Vertical Cover. DO NOT over tighten.



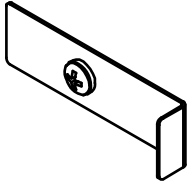
Matrix 2019

Top and Bottom Tile Retainers

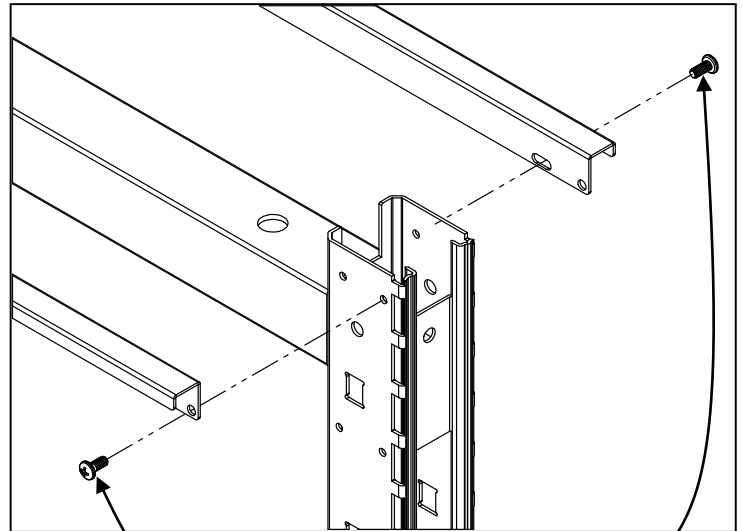
Required hardware:



#8-32 x 5/16" Pan Head
Machine Screw
#RP-MXHS83214
Use philips drive #2
4 places



Clip Assembly
#RP-M2TCLIP
Use philips drive #2
4 places

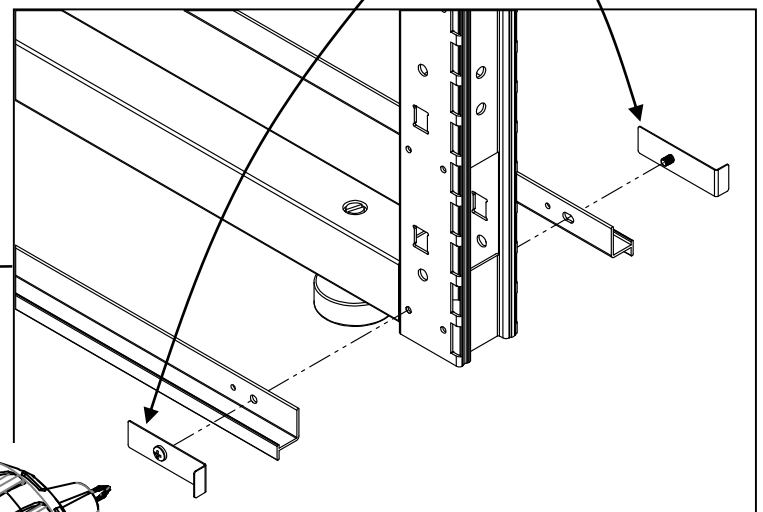


Top Tile Retainer
2 places

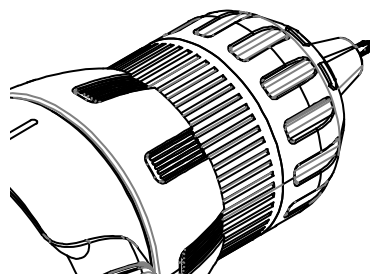
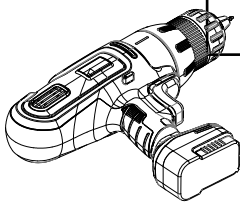
#8-32 x 5/16"
Pan Head Machine Screw
Philips Drive #2
4 places

Matrix Frame
(50H x 36W shown)

Clip Assembly
4 places



Bottom Tile Retainer
2 places



IMPORTANT INSTRUCTIONS:
Set cordless drill to medium torque
to prevent stripping

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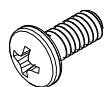
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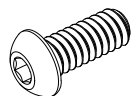
Matrix 2019

Off-Modular Frames

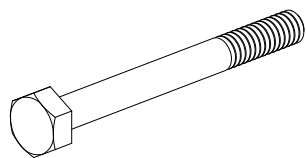
Required hardware:



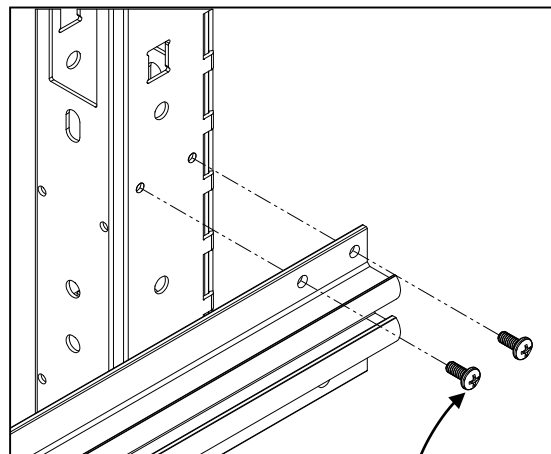
#8-32 x 5/16" Pan Head Machine Screw
#RP-MXHS83214
 Use philips drive #2
 4 places



1/4-20 x 5/8" Button Head Screw
#RP-M2BOLT3
 Use with 5/32 allen wrench
 2 places

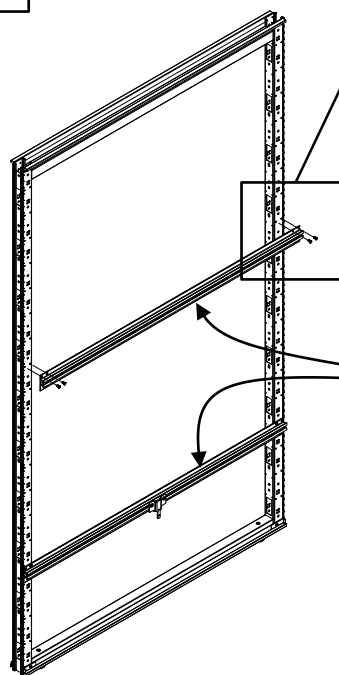
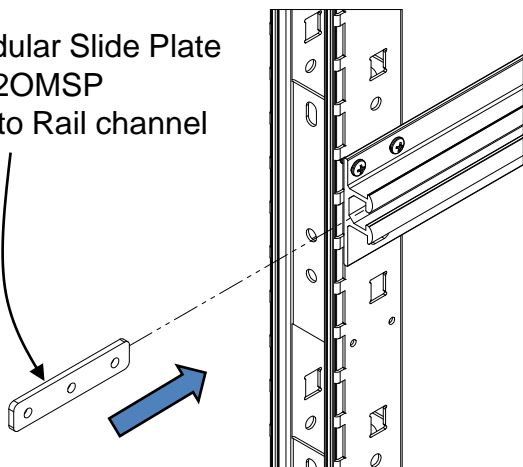


1/4-20 x 2" Hex Bolt
#RP-M2BOLT1
 Use 7/16" magnetic hex drive
 2 places

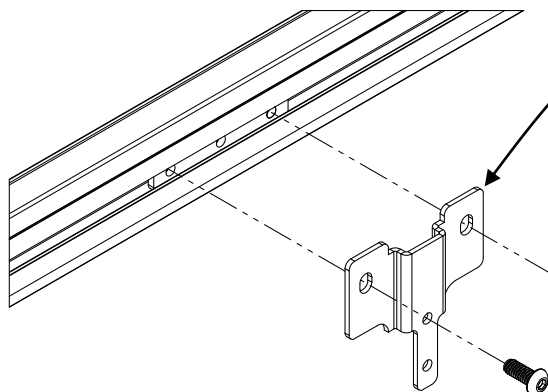


#8-32 x 5/16" Pan Head
 4 places

Off-Modular Slide Plate
#RP-M2OMSP
 Slide into Rail channel



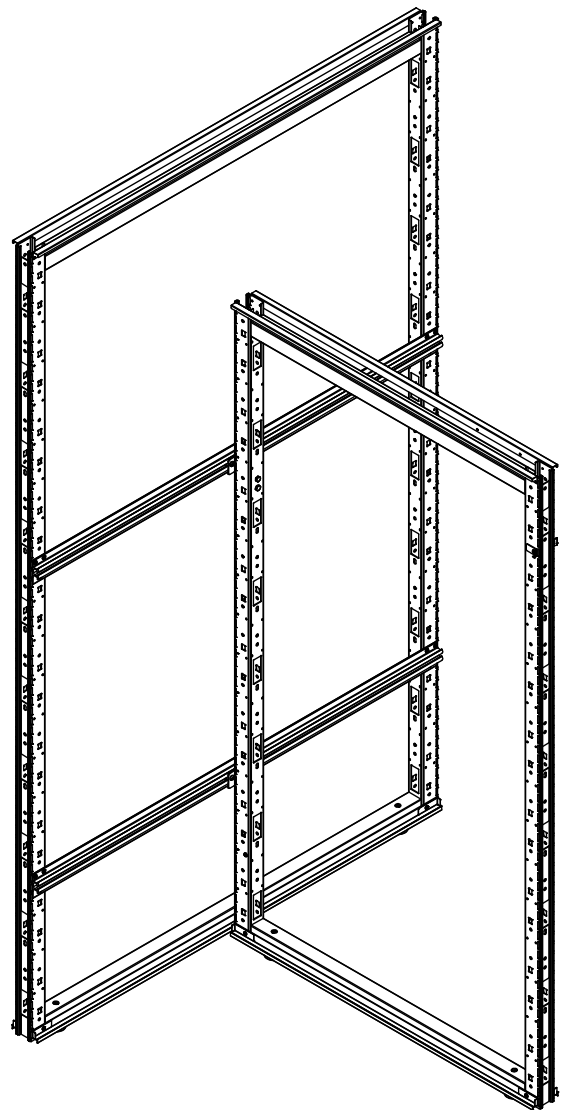
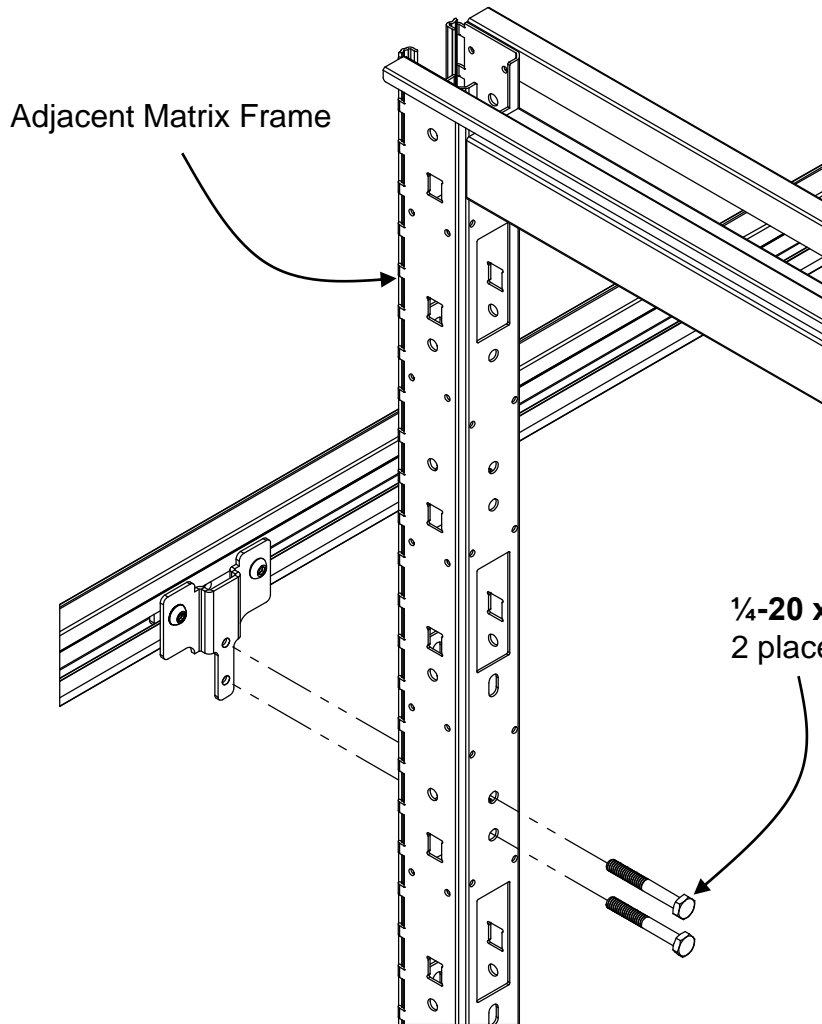
Off-Modular Rail



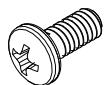
Off-Modular Panel Bracket
#RP-M2OMMB

1/4-20 x 5/8" Button Head Screw
 2 places
 Make sure bracket is in the
 correct location according to plan
 before tightening



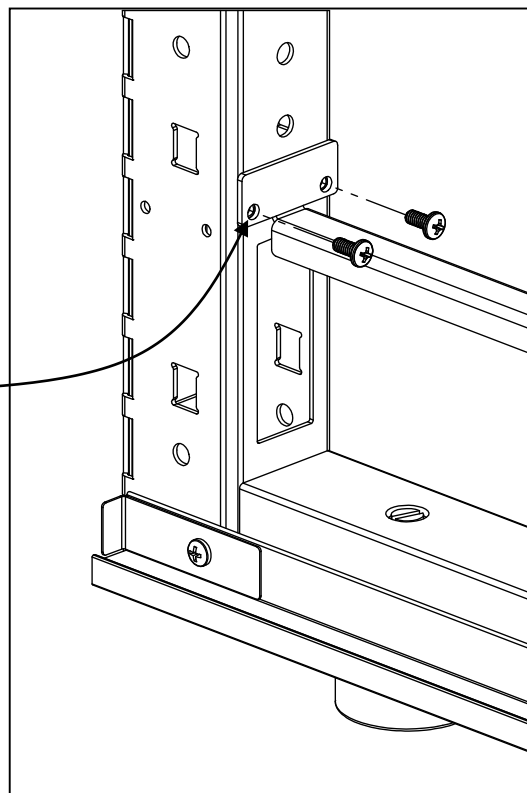


Required hardware:



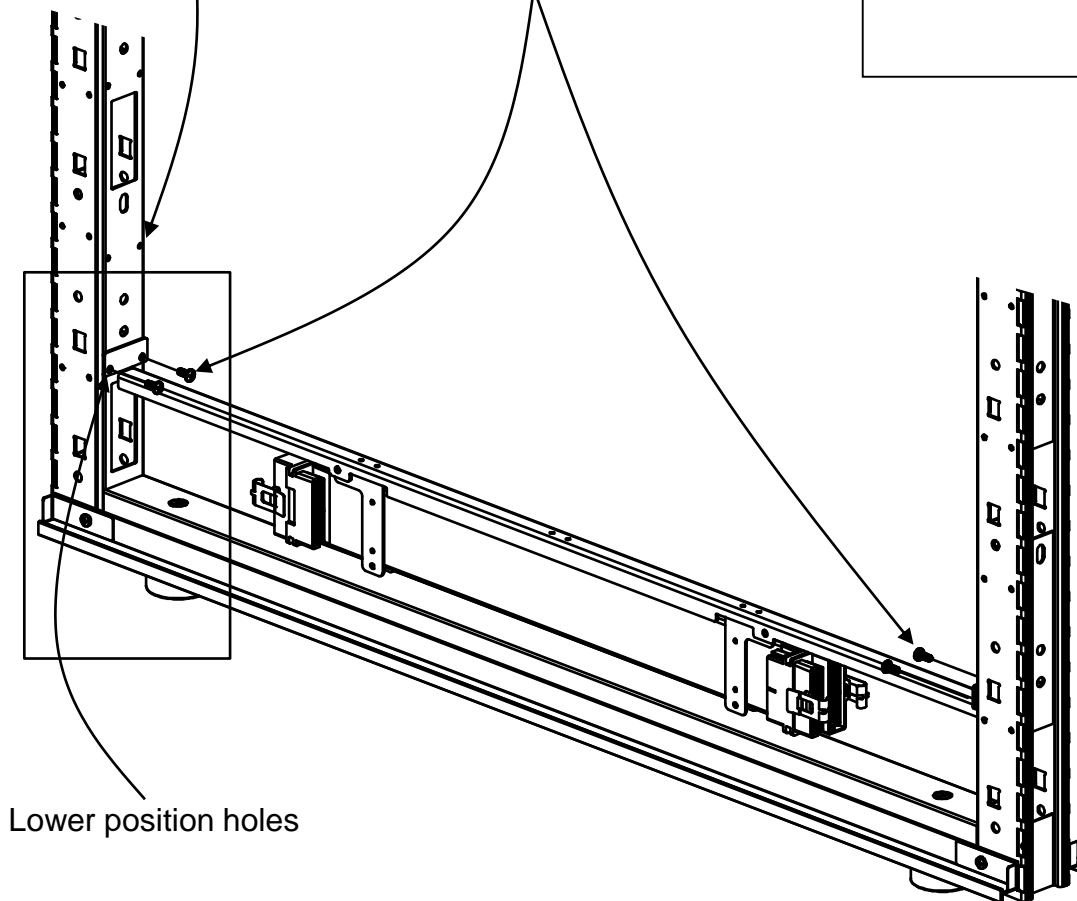
#8-32 x 5/16" Pan Head
Machine Screw
#RP-MXHS83214
Use philips drive #2
4 places

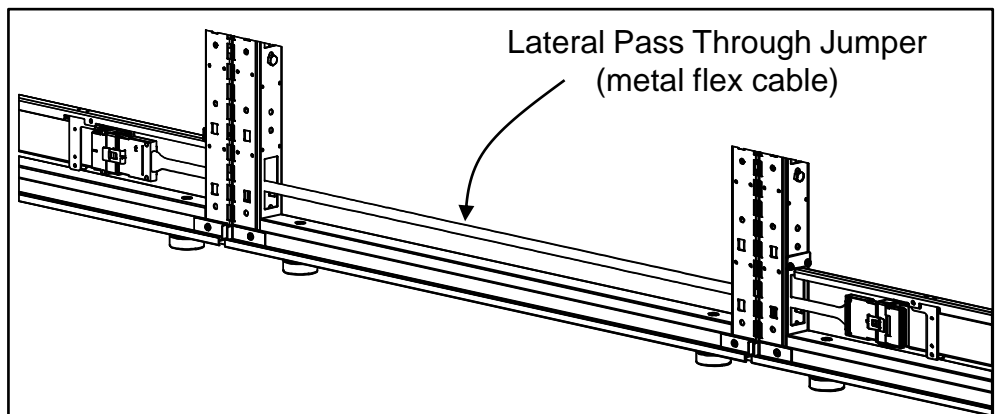
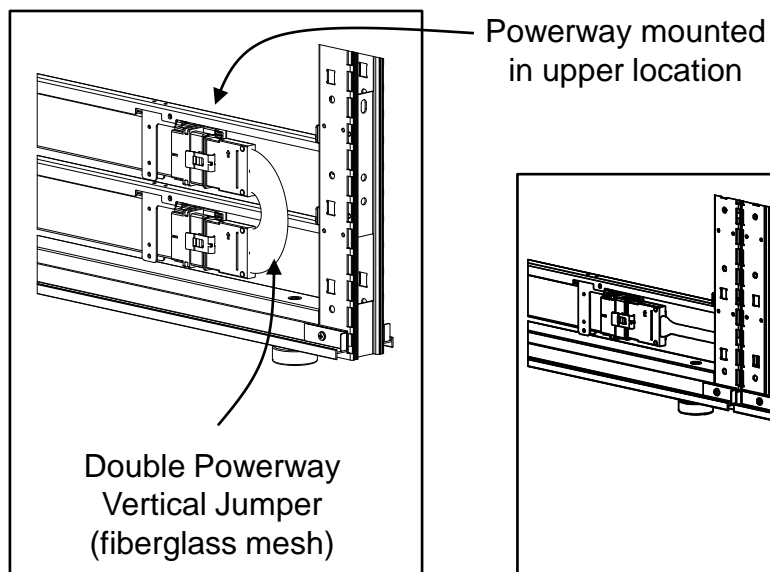
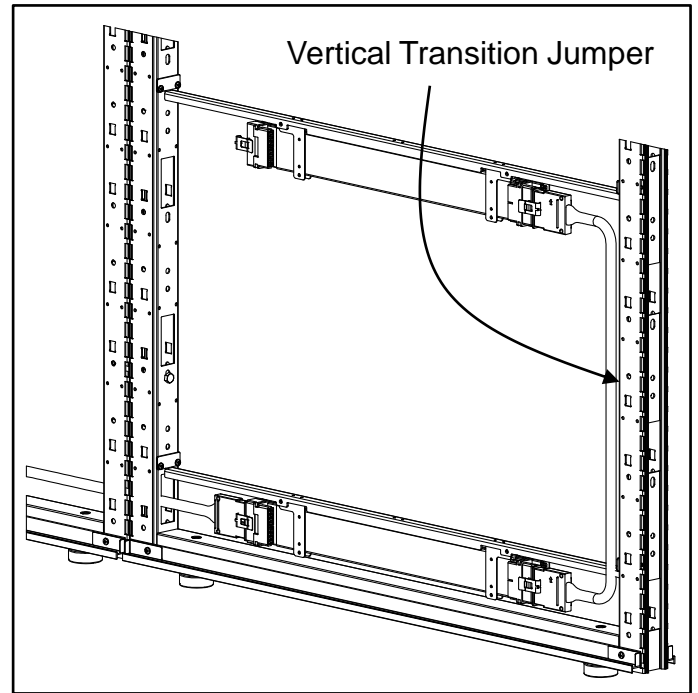
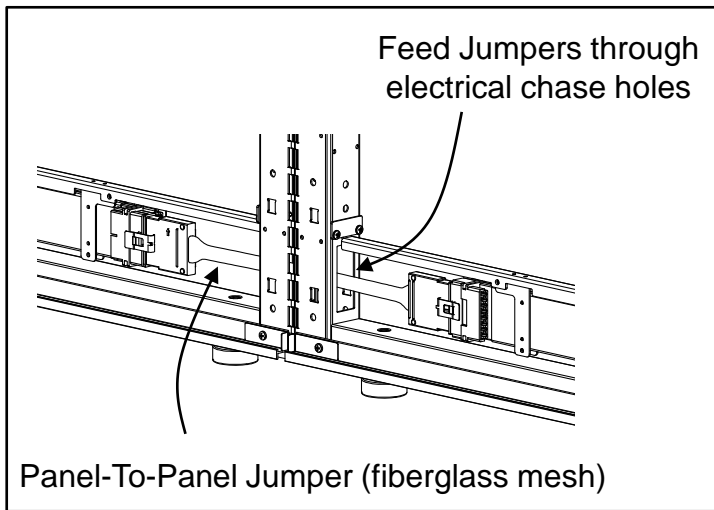
Align powerway mounting
holes to mounting holes in
vertical frame



Upper position holes

#8-32 x 5/16"
Pan Head Machine Screw
Philips Drive #2
4 places



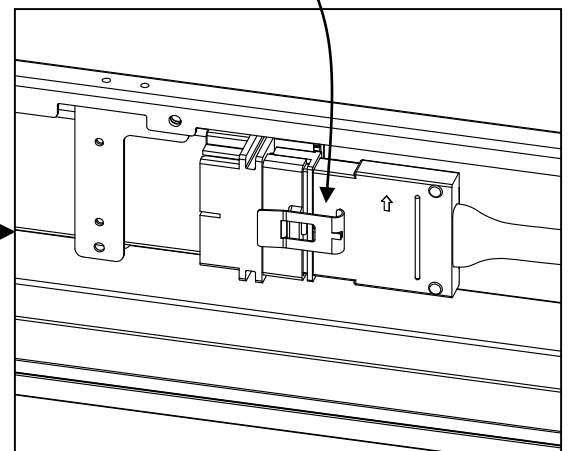
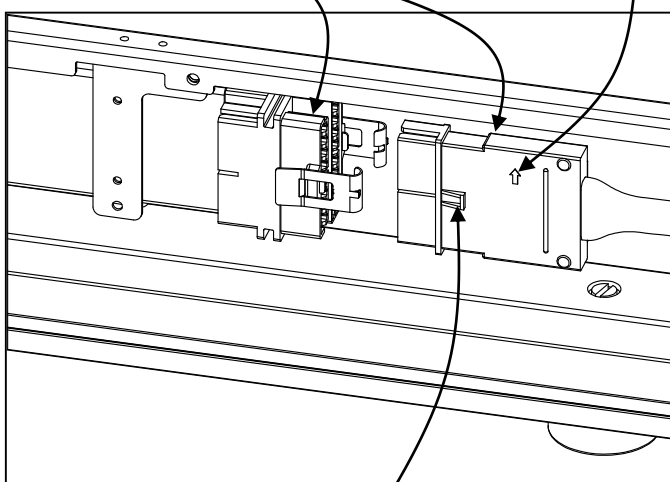


Plug Jumper into Powerways

Note UP arrow

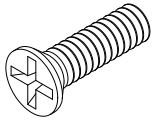


Fully Engage Locking Clip

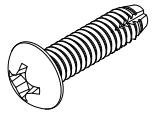


Engage clip **HERE**

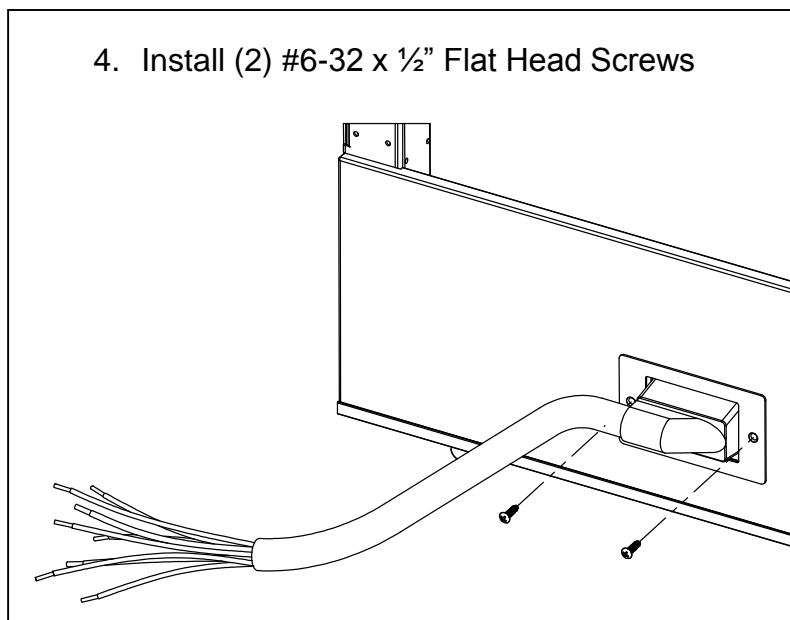
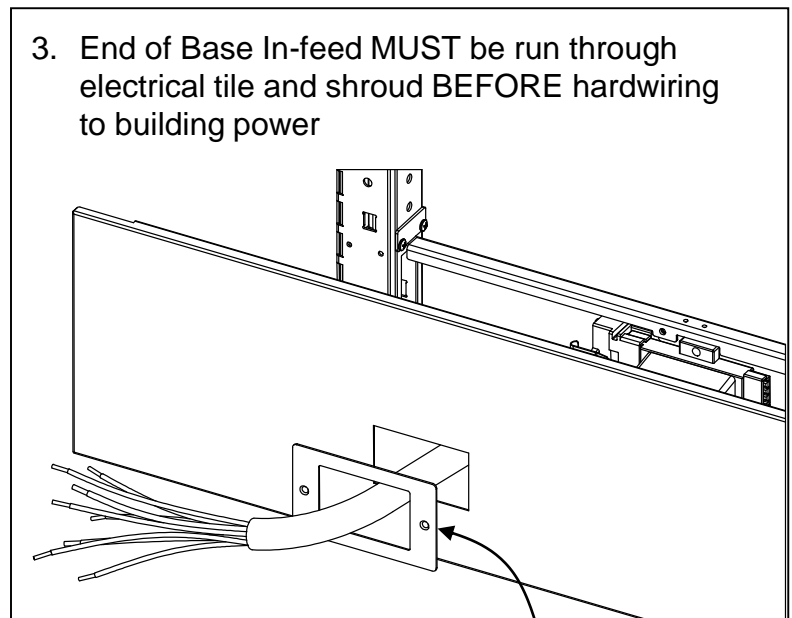
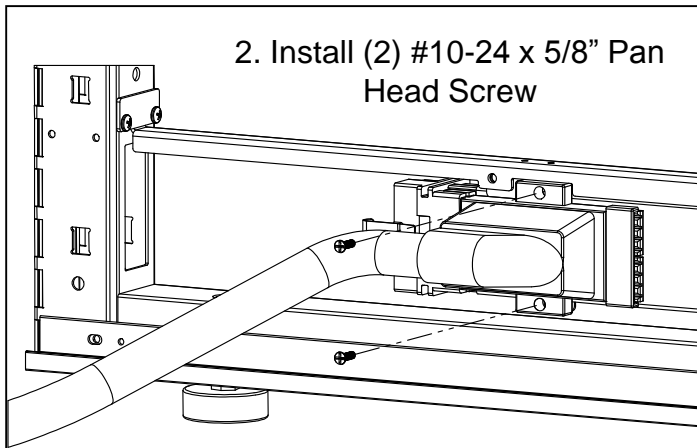
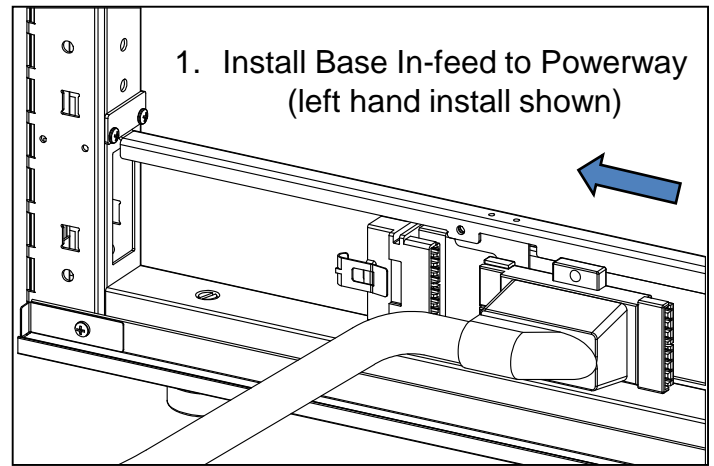
Required hardware:



#6-32 x 1/2" Flat Head
Machine Screw
#RE-MXHS632
Use philips drive #2
1 place



#10-24 x 5/8" Round Head
Thread-Cutting Screw
#RE-HS1058F
Use philips drive #2
2 places



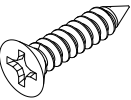
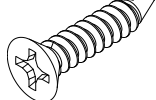

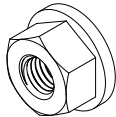
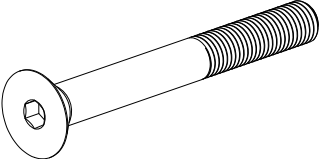
Receptacle Base In-Feed
Shroud
#RP-MXBIFS

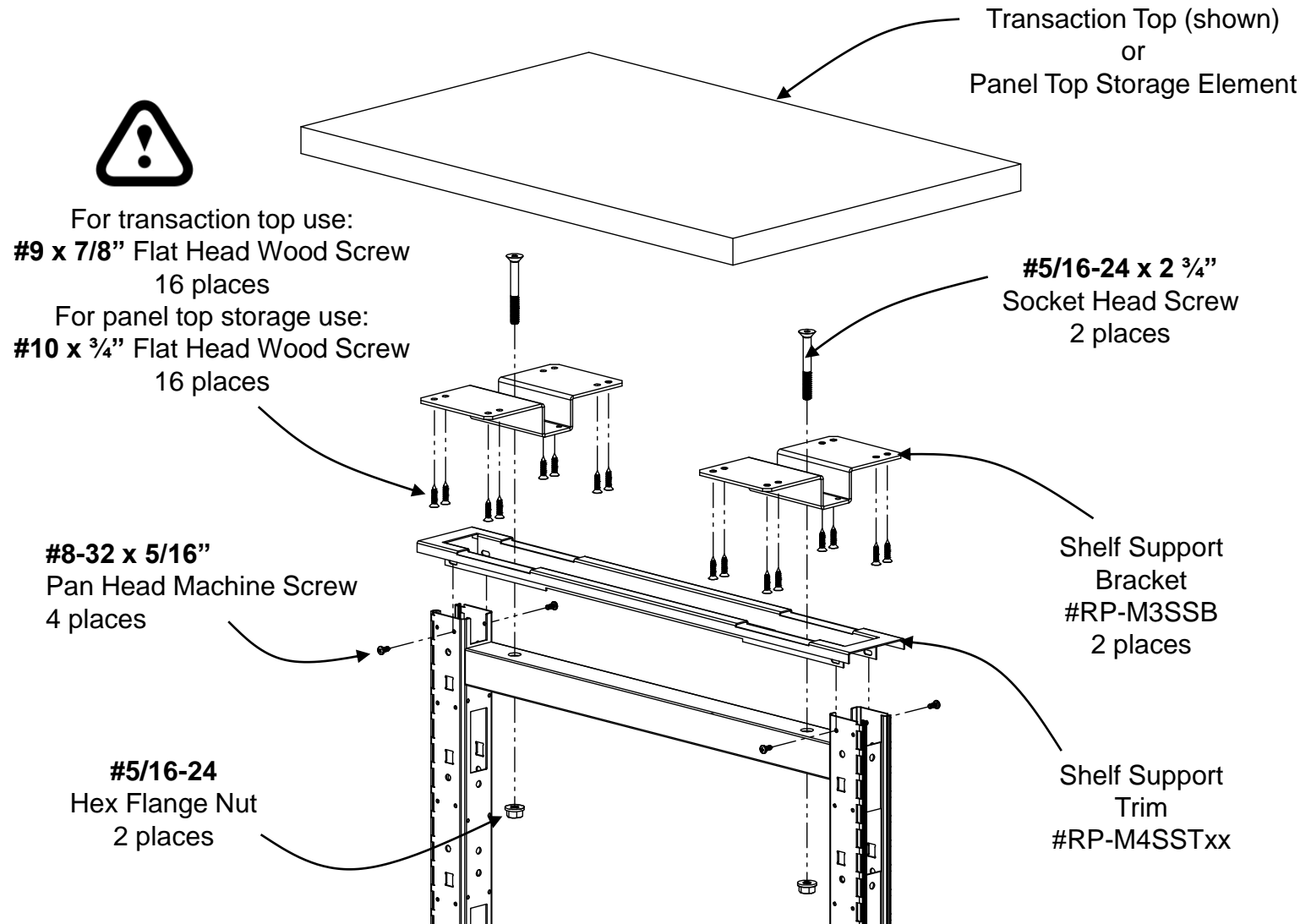
TBD – new design in process.
Please refer to old instructions for installation.

Matrix 2019

Transaction Tops and Panel Top Storage Elements

Required hardware:

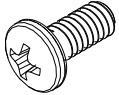
 <p>#9 x 7/8" Flat Head Wood Screw #RH-QS0978 Use philips drive #2 16 places</p>	 <p>#10 x 3/4" Flat Head Wood Screw #RH-WSFP1034 Use philips drive #2 16 places</p>
 <p>#8-32 x 5/16" Pan Head Machine Screw #RP-MXHS83214 Use philips drive #2 4 places</p>	 <p>#5/16-24 Hex Flange Nut #RS-HNZFS51624 Use 5/8" hex drive 2 places</p>
 <p>#5/16-24 x 2 3/4" Socket Head Screw #RH-SHBF5162434 Use with 5/32 allen wrench 2 places</p>	



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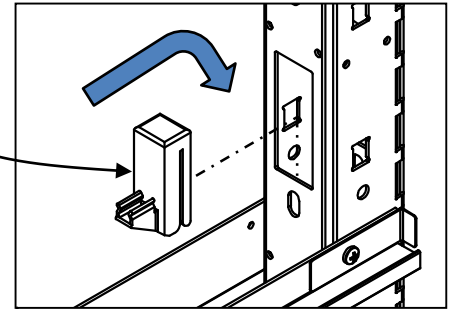
Top Glass Insert Tiles

Required hardware:

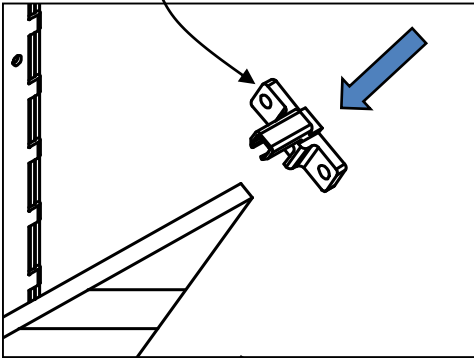


**#8-32 x 5/16" Pan Head
Machine Screw**
#RP-MXHS83214
Use philips drive #2
4 places

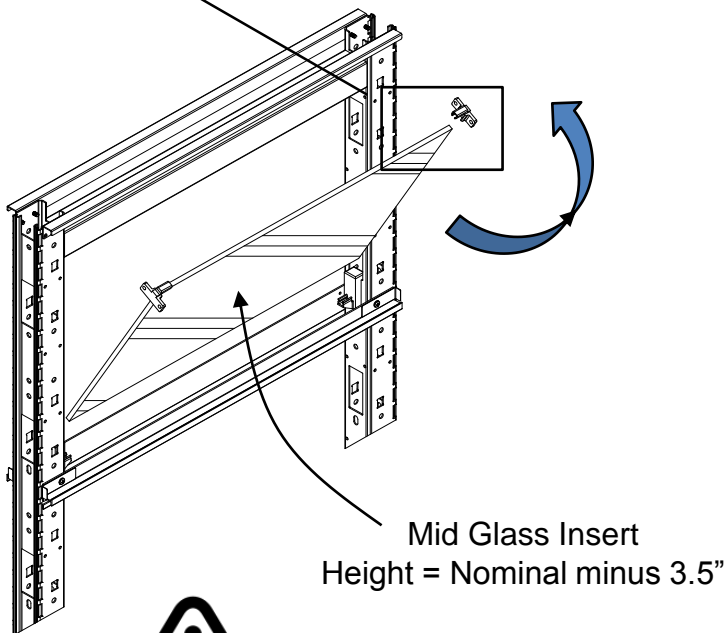
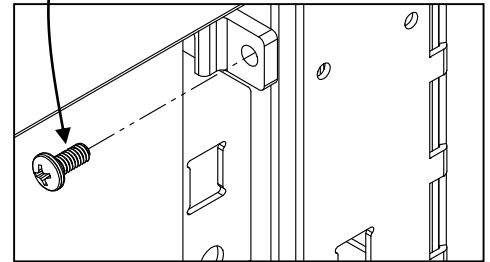
Glass Holder Mid Bottom
#RP-M2GHMIDBOT
Hooks onto electrical
chase hole



Glass Holder Top
#RP-M2GHTOP



#8-32 x 5/16"
Pan Head Machine Screw
Philips Drive #2
4 places



Mid Glass Insert
Height = Nominal minus 3.5"

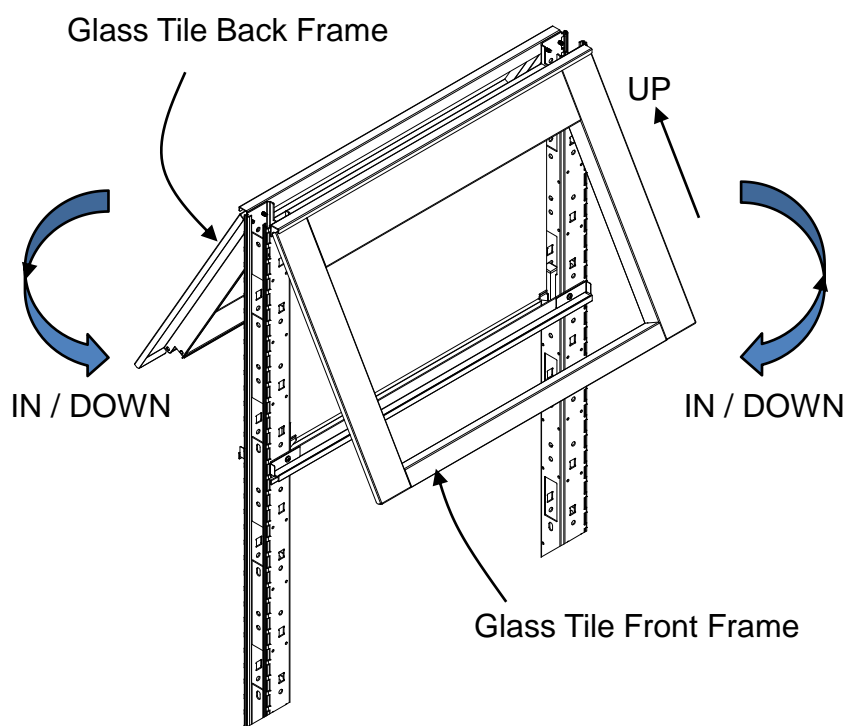


IMPORTANT INSTRUCTIONS:

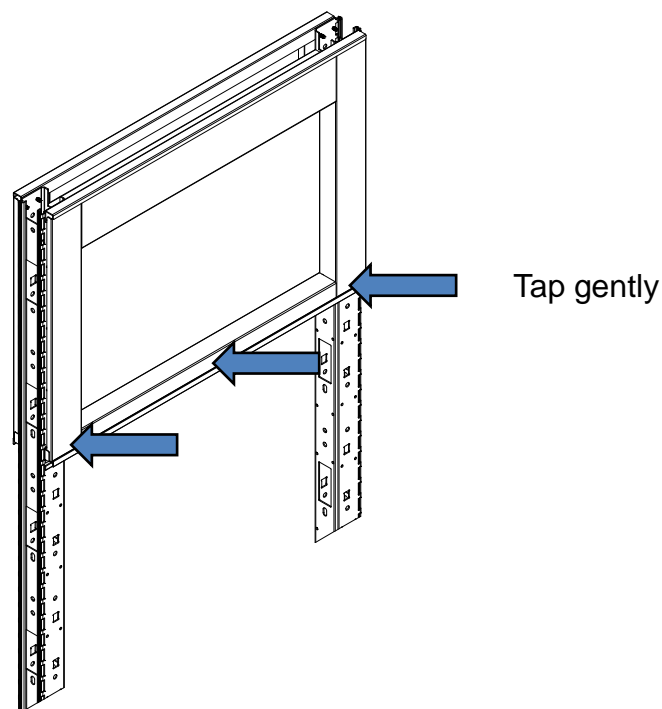
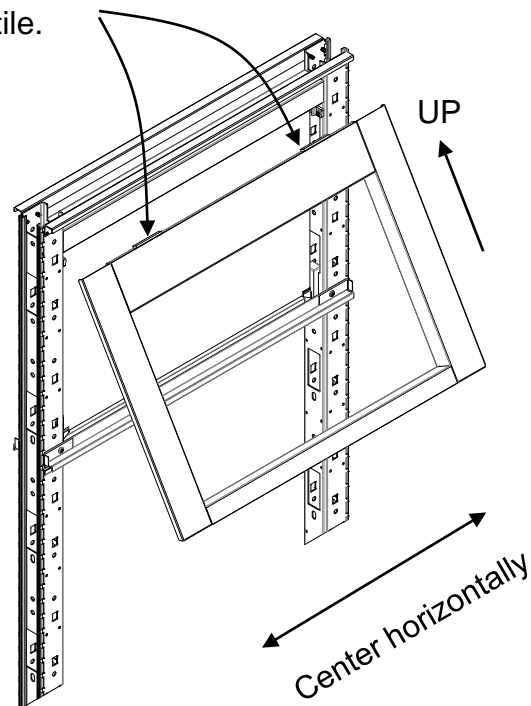
- Install glass into the channels of both bottom holders
- Then, rotate up to align the top holders to the frame.
- Secure with #8-32 x 5/16" screws.

IMPORTANT INSTRUCTIONS:

- Install tile frames by first inserting top edge of tile under the top tile retainer lip.
- While holding the tile frame up, rotate bottom of the tile frame down and **gently tap** bottom of the tile frame into the bottom tile retainer.

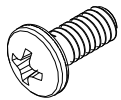


Foam blocks at top of the tile.



Matrix 2019

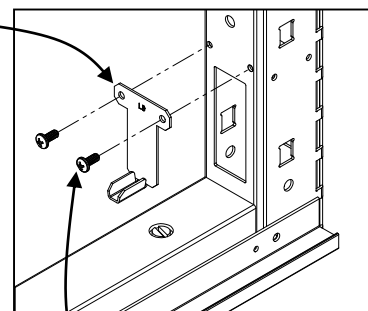
Required hardware:



**#8-32 x 5/16" Pan Head
Machine Screw
#RP-MXHS83214
Use philips drive #2
4 places**

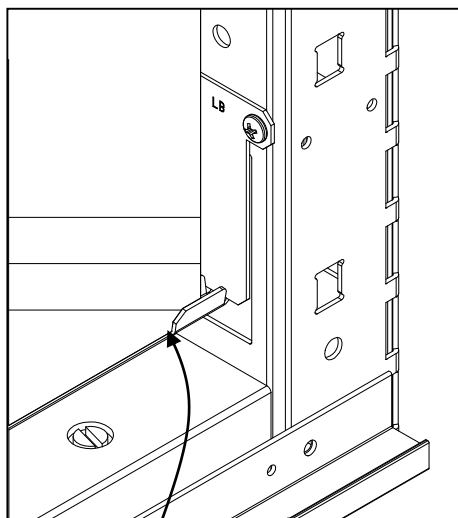
Bottom Glass Insert Tiles

Glass Holder Lower
Bottom
#RP-M2GHLB-A

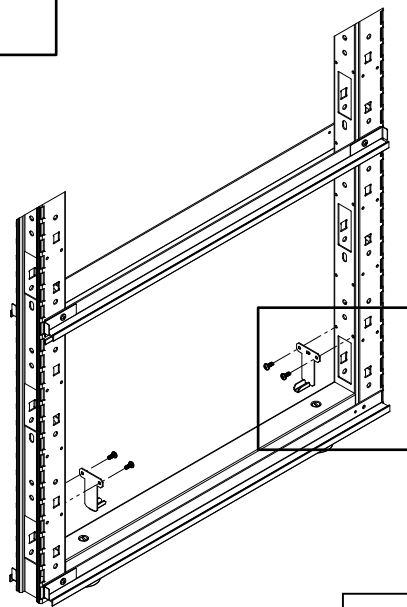


**#8-32 x 5/16"
Pan Head Machine Screw
Philips Drive #2
4 places**

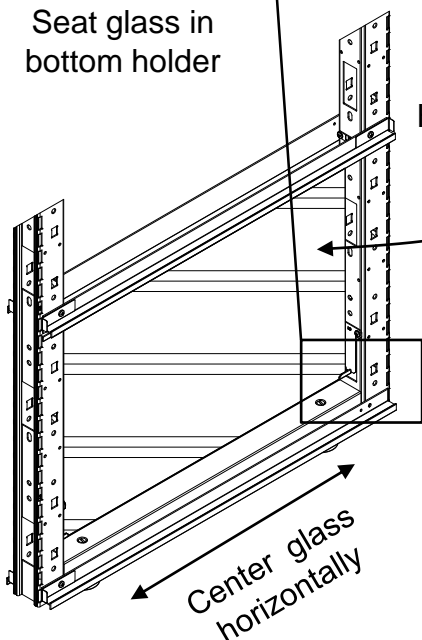
Glass Holder Top Bottom
#RP-M2GHLWBOT



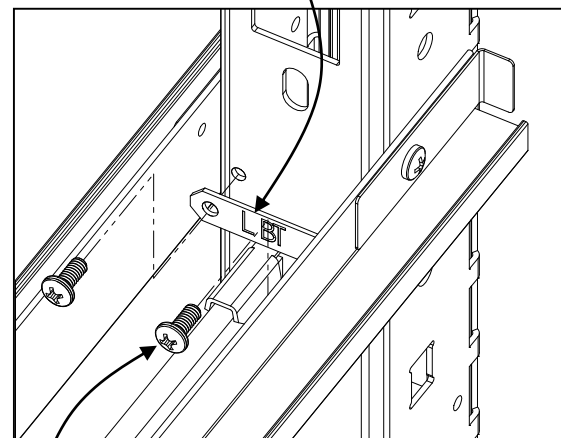
Seat glass in
bottom holder



Bottom Glass Insert
Height= Nominal minus 2 11/16"



Center glass
horizontally

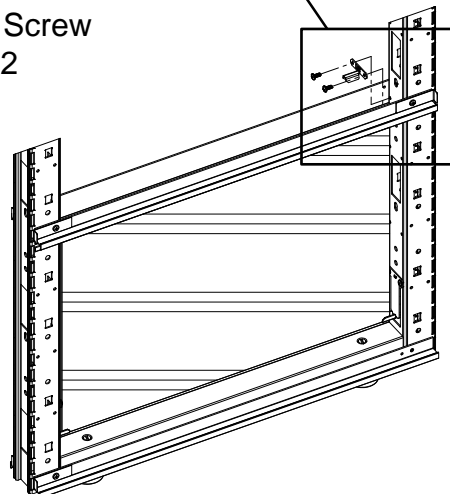


**#8-32 x 5/16"
Pan Head Machine Screw
Philips Drive #2
4 places**



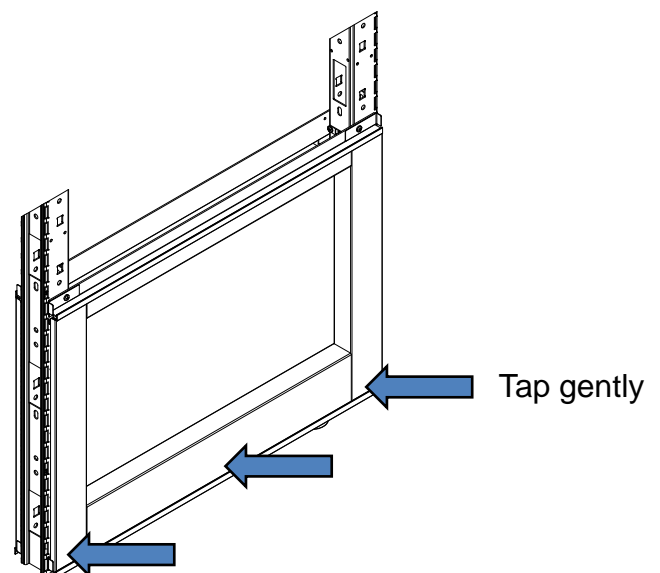
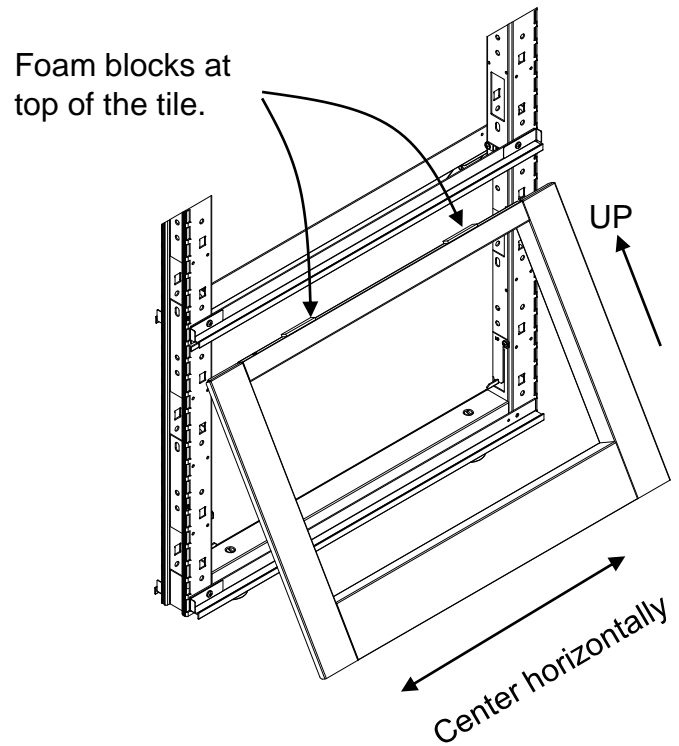
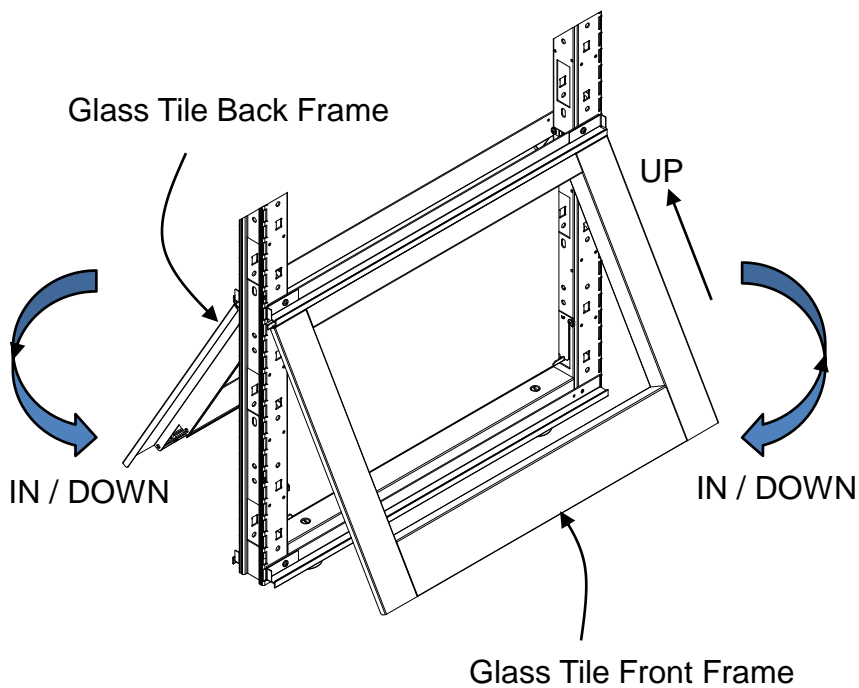
IMPORTANT INSTRUCTIONS:

- Install glass into the channels of both bottom holders
- Then, align the top holders to the frame.
- Secure with #8-32 x 5/16" screws.



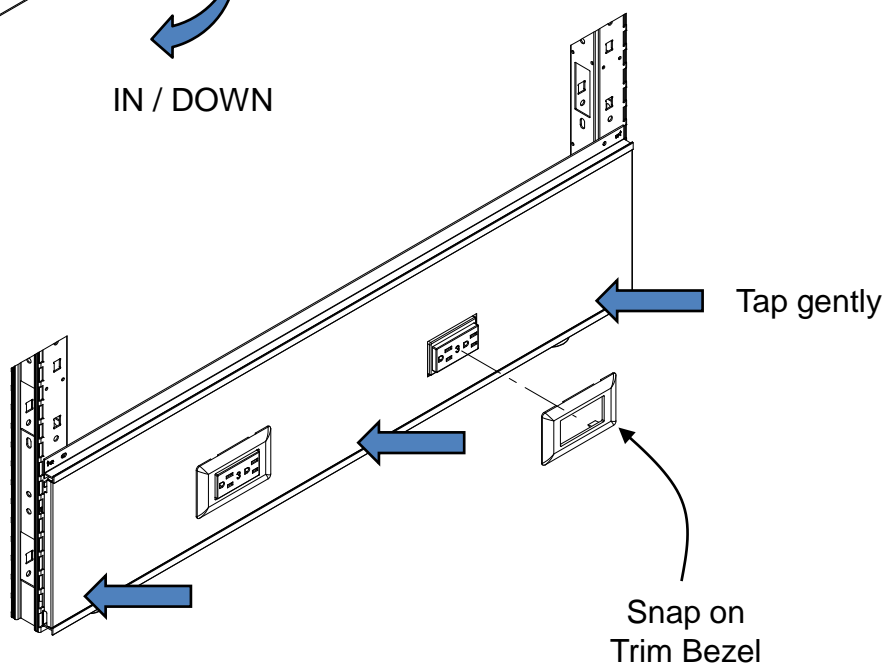
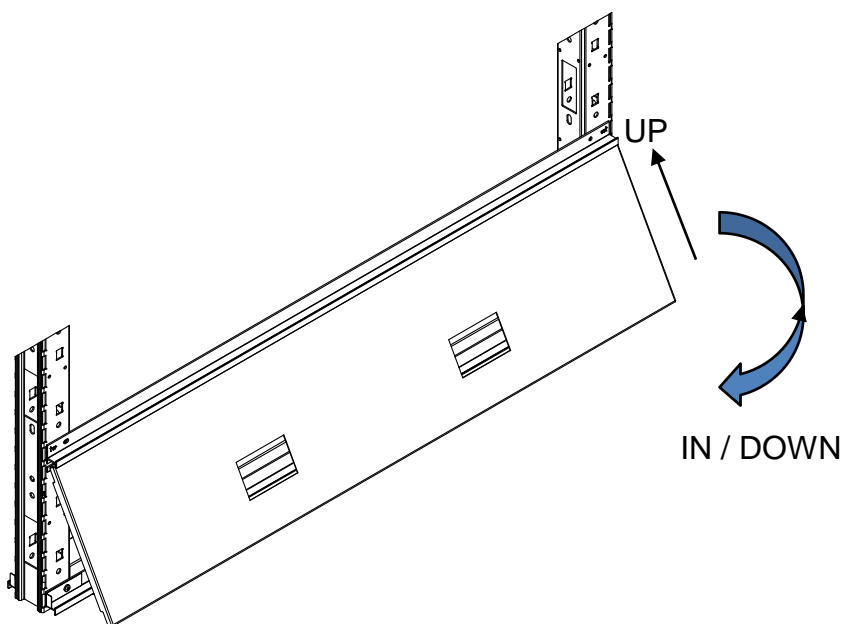
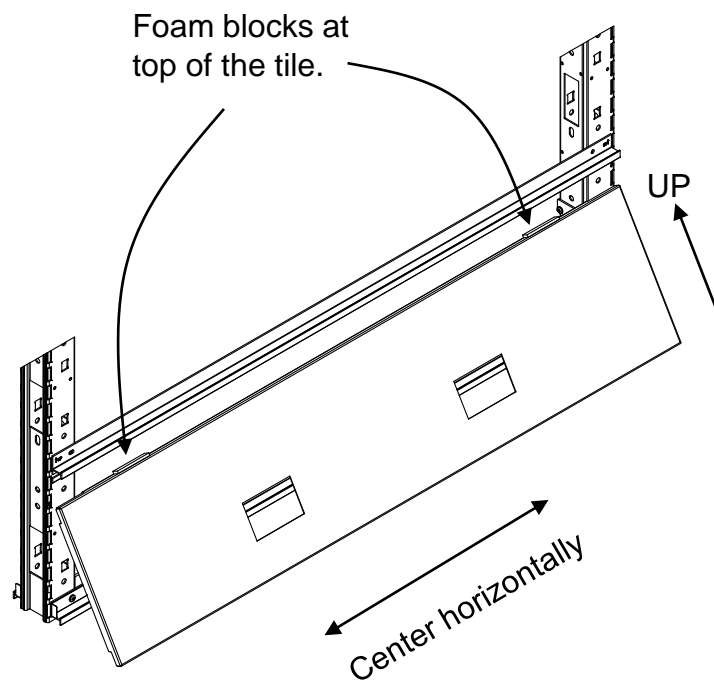
IMPORTANT INSTRUCTIONS:

- Install tile frames by first inserting top edge of tile under the top tile retainer lip.
- While holding the tile frame up, rotate bottom of the tile frame down and **gently tap** bottom of the tile frame into the bottom tile retainer.



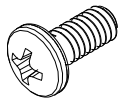
IMPORTANT INSTRUCTIONS:

- Install tile by first inserting top edge of tile under the top tile retainer lip.
- While holding the tile up, rotate bottom of the tile down and **gently tap** bottom of the tile into the bottom tile retainer.

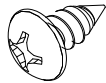


Matrix 2019

Required hardware:

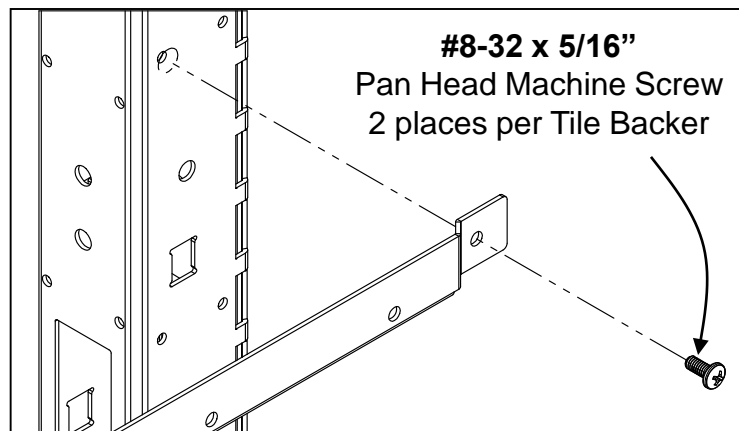


**#8-32 x 5/16" Pan Head
Machine Screw**
#RP-MXHS83214
Use philips drive #2

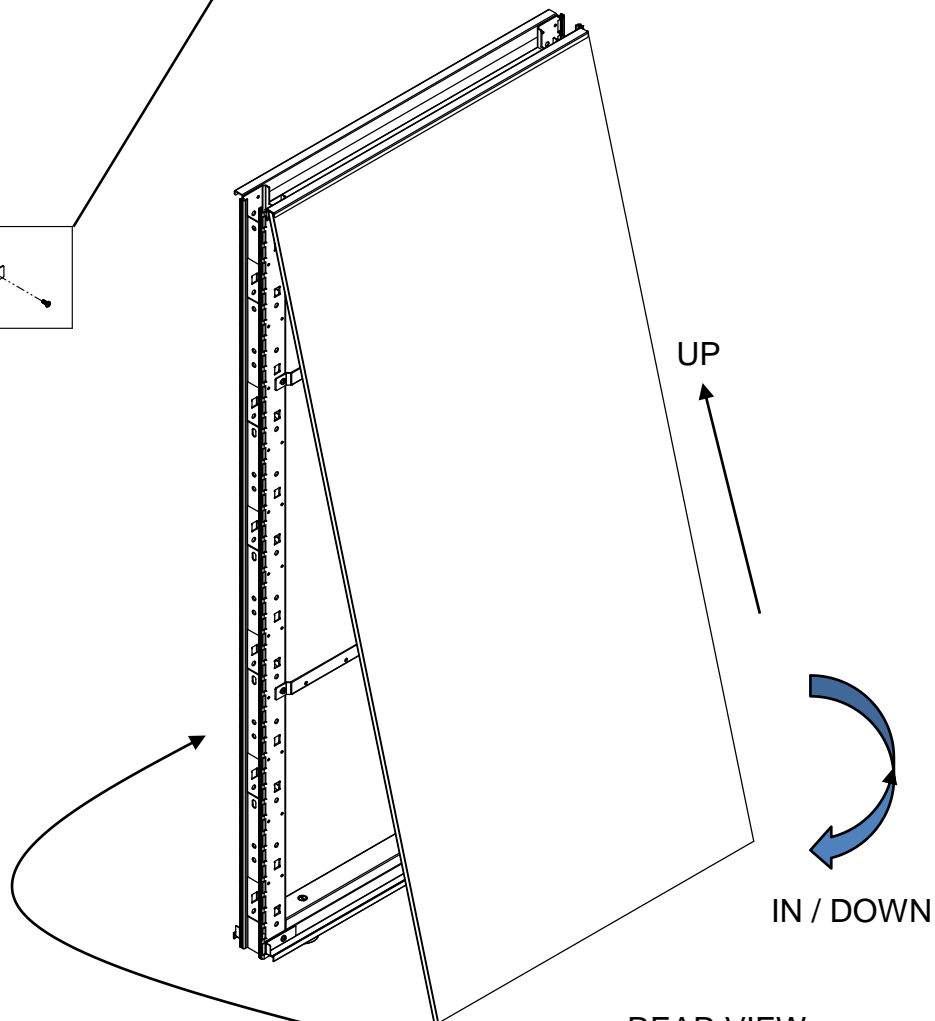
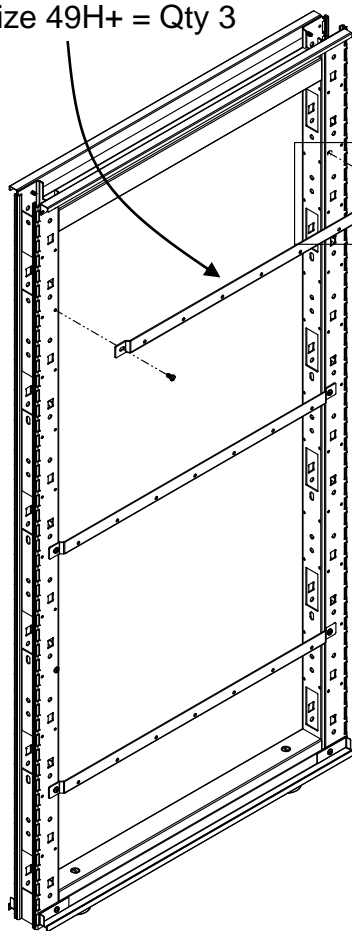


**#6 x 5/16" Pan Head
Drilling Screw**
#RH-90190A145
Use philips drive #2

Monolithic Laminate Tiles



Laminate Tile Backer
Size 32H-48H = Qty 2
Size 49H+ = Qty 3

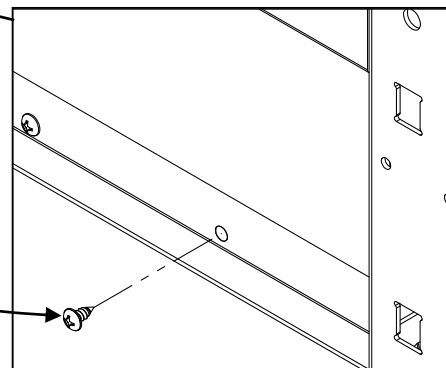


IMPORTANT INSTRUCTIONS:

- Monolithic Laminate Tiles can only be installed on one side of the Matrix frame.

**#6 x 5/16" Pan Head
Drilling Screw**
Screw into back side of
Laminate Tile

REAR VIEW



AI**S**

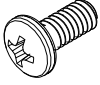
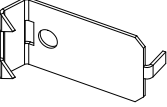
www.ais-inc.com

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Matrix 2019

Fabric Tiles

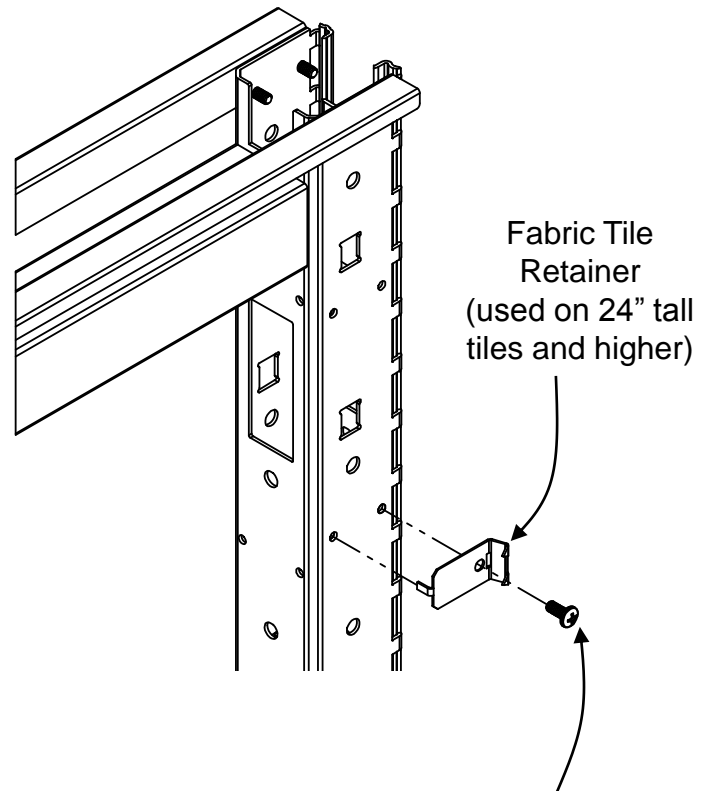
Required hardware:

	#8-32 x 5/16" Pan Head Machine Screw #RP-MXHS83214 Use philips drive #2 4 places
	Fabric Tile Retainer #RP-M2FTR-B 24H-40H = qty 1 each side 48H-64H = qty 3 each side

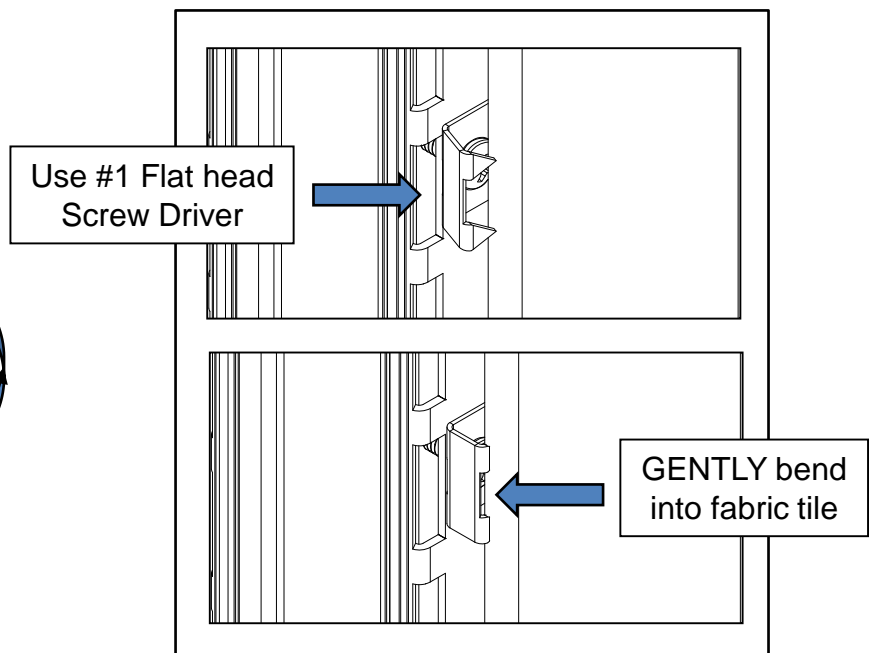
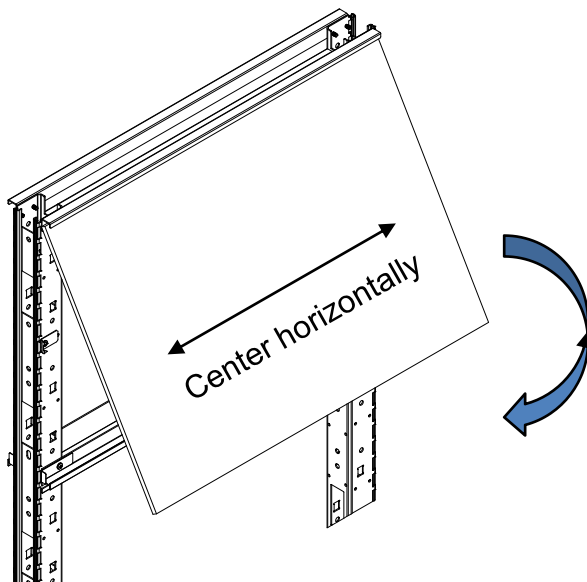


IMPORTANT INSTRUCTIONS:

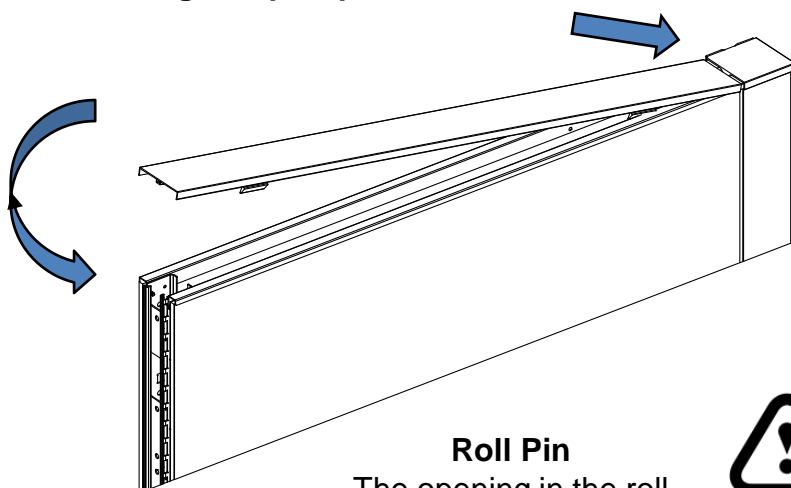
- Install fabric tiles by first inserting top edge of tile under the tile retainer lip.
- **MAKE SURE** fabric tile is properly seated in the bottom tile retainer.
- While holding fabric tile in place, **GENTLY** bend retainer clip into the fabric to grip the edge of the tile. Use #1 flat head screw driver.
- **DO NOT** overbend and dimple tile edge.



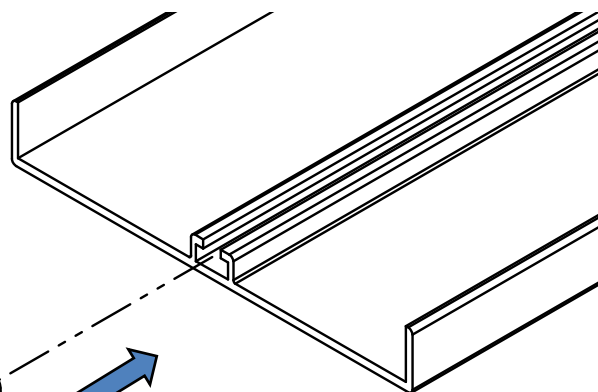
#8-32 x 5/16"
Pan Head Machine Screw
Philips Drive #2



Single Top Caps

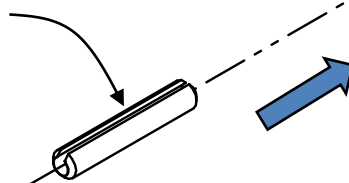


Adjacent Top Caps



Roll Pin

The opening in the roll pin must be aligned with the opening in the top cap as shown. Using mallet, gently tap roll pin half way into one end of the top cap.



Connect adjacent top cap to roll pin. Then, install as shown below. Make sure top caps are flush.

