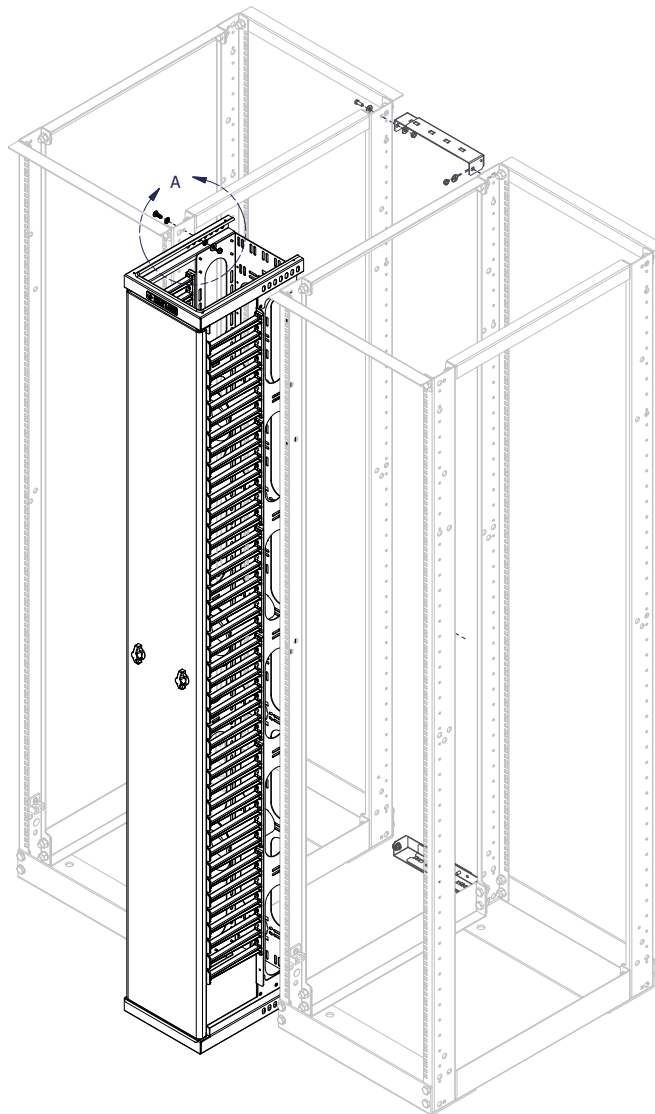# GREAT LAKES
DATA RACKS & CABINETS

VCM & VCMX Series
Vertical Cable Managers
Installation Instructions

GreatCabinets.com
1.866.879.4522

PREFACE

This manual is provided to prevent service personnel from committing an act that results in the risk of fire, electric shock, or injury to persons. Only trained service personnel should receive, unpack, and assemble the racks. In addition, only trained service personnel should install equipment in enclosures.

SAFETY SYMBOLS USED IN THIS MANUAL

This manual provides general safety guidelines to be observed during installation, operation, and maintenance of the racks.

WARNING:
Failure to follow directions in the warning could result in injury to persons or loss of life.

INSTALLATION

RECEIVING, UNPACKING, AND REMOVING THE RACK

Inspect and report damage before receiving. Unpack the rack by carefully removing the corrugated cartons and corners. Avoid damaging the rack when removing packaging.

SERVICE

Racks should be repaired by personnel trained by Great Lakes, or returned to Great Lakes for repair or replacement. Contact Great Lakes Technical Support at 814.734.7303 or at TechSupport@GreatCabinets.com

INSTALLATION QUESTIONS?

Call Technical Support at 1-866-879-4522 or email TechSupport@GreatCabinets.com

VERTICAL CABLE MANAGERS, FRONT ONLY CONFIGURATIONS (PAGE 4)

Part No.	RMU	H"	W"	D"	Cable Fill	Slack Spools, Qty. Included
VCM-45U-0612FO	45	84	6	12	41	0
VCM-45U-0812FO	45	84	8	12	62	0
VCM-45U-1012FO	45	84	10	12	82	3
VCM-45U-1212FO	45	84	12	12	103	3
VCM-52U-0612FO	52	96.25	6	12	41	0
VCM-52U-0812FO	52	96.25	8	12	62	0
VCM-52U-1012FO	52	96.25	10	12	82	4
VCM-52U-1212FO	52	96.25	12	12	103	4
VCM-59U-0612FO	59	108.5	6	12	41	0
VCM-59U-0812FO	59	108.5	8	12	62	0
VCM-59U-1012FO	59	108.5	10	12	82	5
VCM-59U-1212FO	59	108.5	12	12	103	5

VERTICAL CABLE MANAGERS, FRONT-REAR CONFIGURATIONS (PAGE 6)

Part No.	RMU	H"	W"	D"	Cable Fill	Slack Spools, Qty. Included
VCM-45U-0612FR	45	84	6	24	85	0
VCM-45U-0812FR	45	84	8	24	125	0
VCM-45U-1012FR	45	84	10	24	164	3
VCM-45U-1212FR	45	84	12	24	204	3
VCM-52U-0612FR	52	96.25	6	24	85	0
VCM-52U-0812FR	52	96.25	8	24	125	0
VCM-52U-1012FR	52	96.25	10	24	164	4
VCM-52U-1212FR	52	96.25	12	24	204	4
VCM-59U-0612FR	59	108.5	6	24	85	0
VCM-59U-0812FR	59	108.5	8	24	125	0
VCM-59U-1012FR	59	108.5	10	24	164	5
VCM-59U-1212FR	59	108.5	12	24	204	5

VCMX, FRONT ONLY CONFIGURATIONS (PAGE 8)

Part No.	RMU	H"	W"	D"	Cable Fill	Slack Spools, Qty. Included
VCMX-45U-1012FO	45	84	10*	12	82	0
VCMX-52U-1012FO	52	96.25	10*	12	82	0
VCMX-59U-1012F0	59	108.5	10*	12	82	0

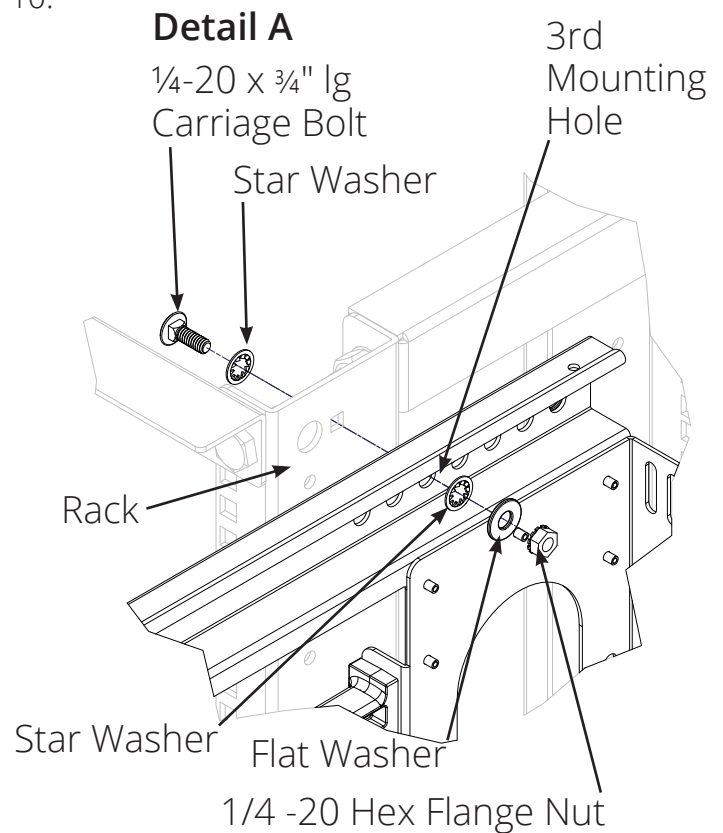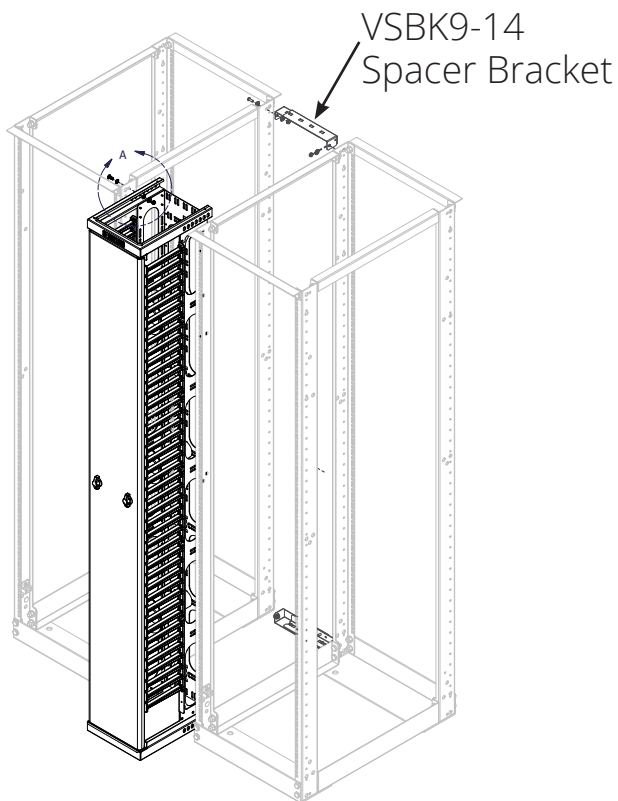*Manager is recessed when ganged with racks, 6" spacing

WHAT'S INCLUDED

VCM or VCMX unit, assembled
Repositionable cable slack spools (quantity specified in chart above)
Installation hardware
Installation instructions

VCM-FO INSTALLED WITH GREAT LAKES RACKS

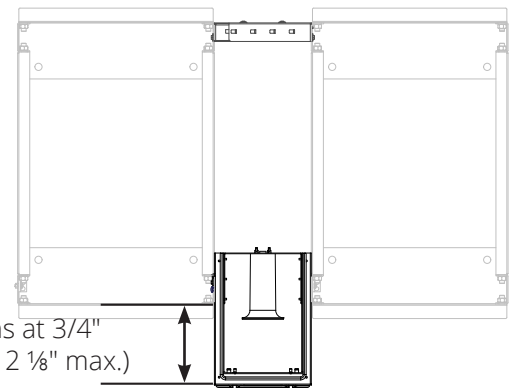## TOOLS: ⁷⁄₁₆" & ⅜" sockets or wrench

ASSEMBLY

1. The VCM can be used in between two racks, at the end of a row or mounted to a single rack.
   If used between two racks, space 6, 8, 10, or 12" apart, depending on VCM width. Use
   variable spacer brackets (VCBK-9-14) to support the rear of the racks as shown below.
   NOTE: VSBK9-14 is not required with 2-post rack installation

2. Fasten the manager to the racks as shown in Detail A. **FINGER TIGHTEN**. When using with baffle
   minimum depth is 10.5"; 2nd hole from rear, 6th hole from front.

3. Repeat step 2 to attach the manager in the remaining corners.
   When installing at the end of a row or independently, VCM will be fastened on one side only.

4. Tighten all hardware after fastening all available sides.

5. To install cable manager slack spools, see page 10.

VSBK9-14
Spacer Bracket

Detail A

¼-20 x ¾" lg
Carriage Bolt

Star Washer

3rd
Mounting
Hole

Rack

Star Washer   Flat Washer

1/4 -20 Hex Flange Nut

VCM can be extended beyond the rack face at
variable depths of your choosing in ¾" increments.

For recommended mounting depth of 8 3/8", use the
3rd mounting hole from the front, on VCM.
See Detail A.

Top View

Variable mounting depths at 3/4"
Increments (6 ⅞" min. - 12 ⅛" max.)

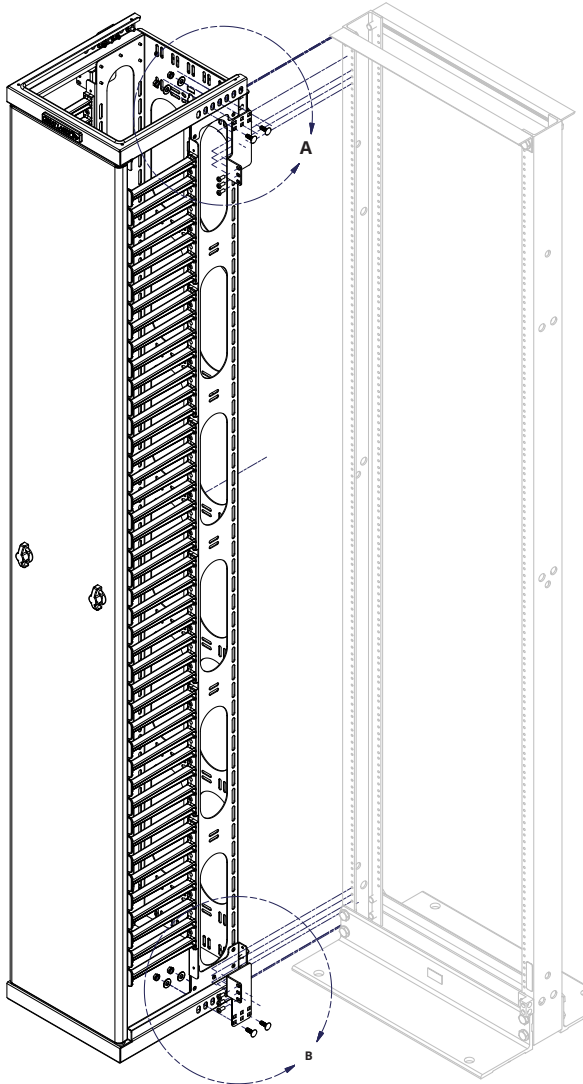# ALTERNATIVE INSTALLATION FOR VERTICAL CABLE MANAGER AND 2 POST RACK USING VCM-MBK MOUNTING BRACKET KIT

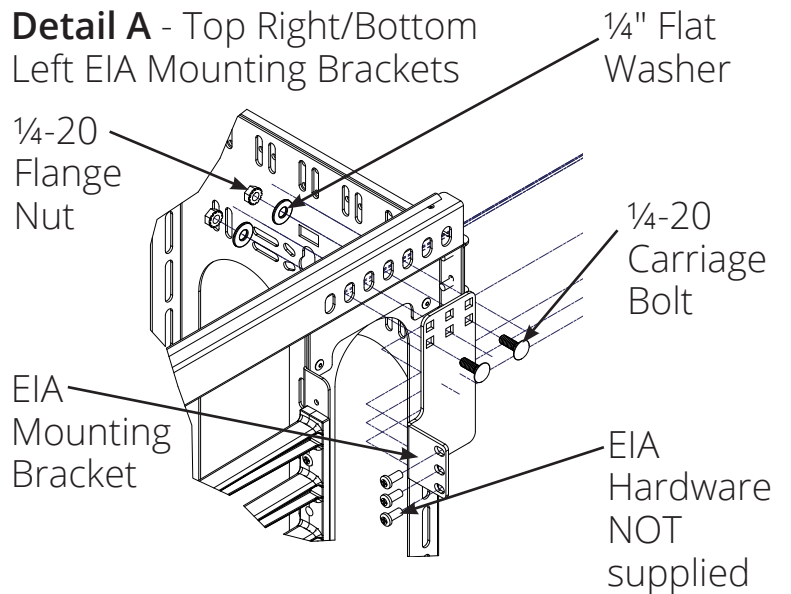**TOOLS:** ⁷⁄₁₆" socket or wrench, Phillips head screwdriver

ASSEMBLY

1. The VCM can be used in between two racks, at the end of a row or mounted to a single rack. If used between two racks, space racks 6, 8, 10, or 12" apart, depending on VCM width.

2. Attach mounting brackets (VCM-MBK) to all corners of the VCM. Brackets are specific to top/right and bottom/left as well as the top/left and bottom/right of the VCM. See Details A and B. **FINGER TIGHTEN**.
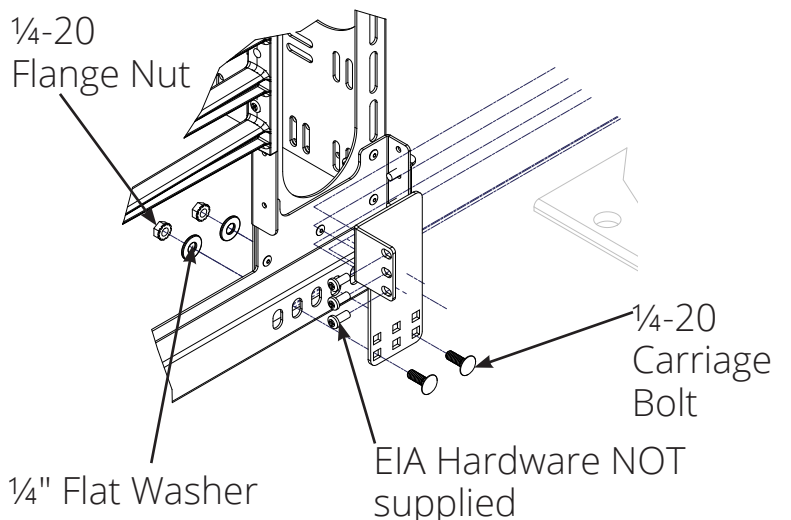
3. Fasten the mounting brackets over the EIA holes of the rack and secure with rack mount hardware.

4. Tighten all hardware.

5. To install cable manager slack spools, see page 10.

Detail A - Top Right/Bottom Left EIA Mounting Brackets

¼" Flat Washer

¼-20 Flange Nut

¼-20 Carriage Bolt

EIA Mounting Bracket

EIA Hardware NOT supplied

Detail B Top Left/Bottom Right Mounting Brackets

¼-20 Flange Nut

¼-20 Carriage Bolt

¼" Flat Washer

EIA Hardware NOT supplied

VCM-FR INSTALLED WITH GREAT LAKES RACKS

TOOLS: 7/16" & 3/8" sockets or wrench

ASSEMBLY

1. The VCM-FR can be used in between two racks, at the end of a row or mounted to a single rack.
 If used between two racks, space 6, 8, 10, or 12" apart, depending on VCM-FR width. Use
 variable spacer brackets (VCBK-9-14) to support the rear of the racks as shown below.
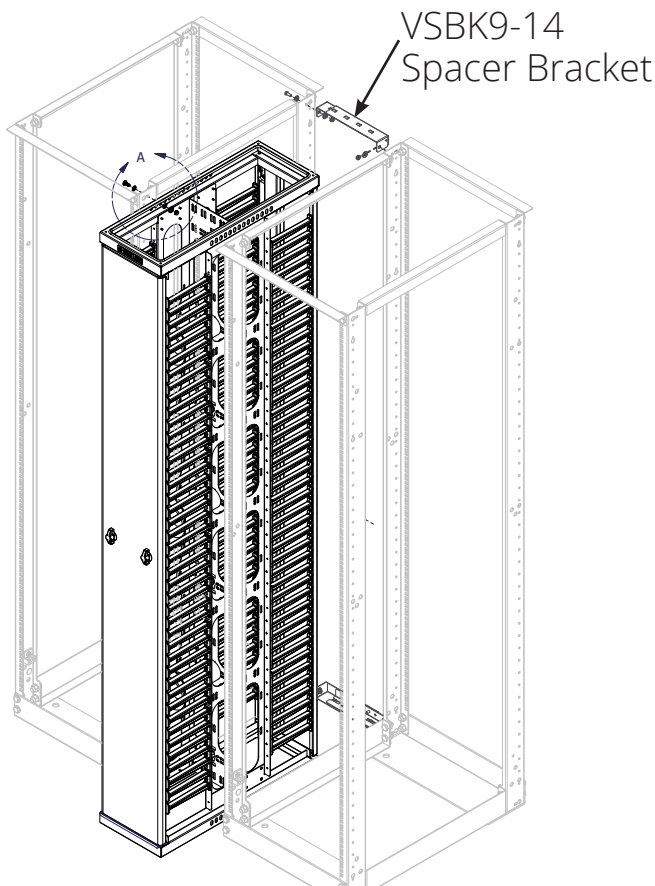 **NOTE**: VSBK9-14 is not required with 2-post rack installation
2. Fasten the manager to the racks as shown in Detail A. **FINGER TIGHTEN**.
3. Repeat step 2 to attach the manager in the remaining corners.
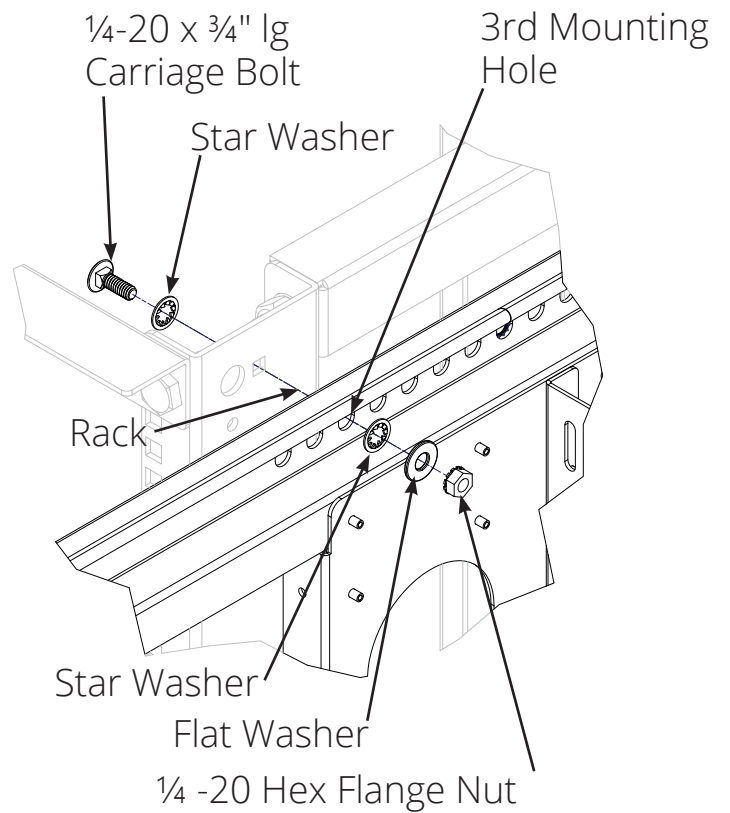 When installing at the end of a row or independently, VCM-FR will be fastened on one side only.
4. Tighten all hardware after fastening all available sides.
5. To install cable manager slack spools, see page 10.

Detail A

VSBK9-14
Spacer Bracket

¼-20 x ¾" lg
Carriage Bolt

3rd Mounting
Hole

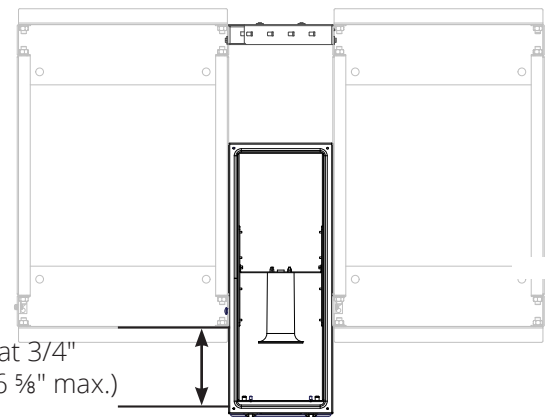Star Washer

Rack

Star Washer

Flat Washer

¼ -20 Hex Flange Nut

VCM-FR can be extended beyond the rack face at variable depths of your choosing in ¾" increments.

For recommended mounting depth of 8 ⅜", use the 3rd mounting hole from the front, on VCM-FR.
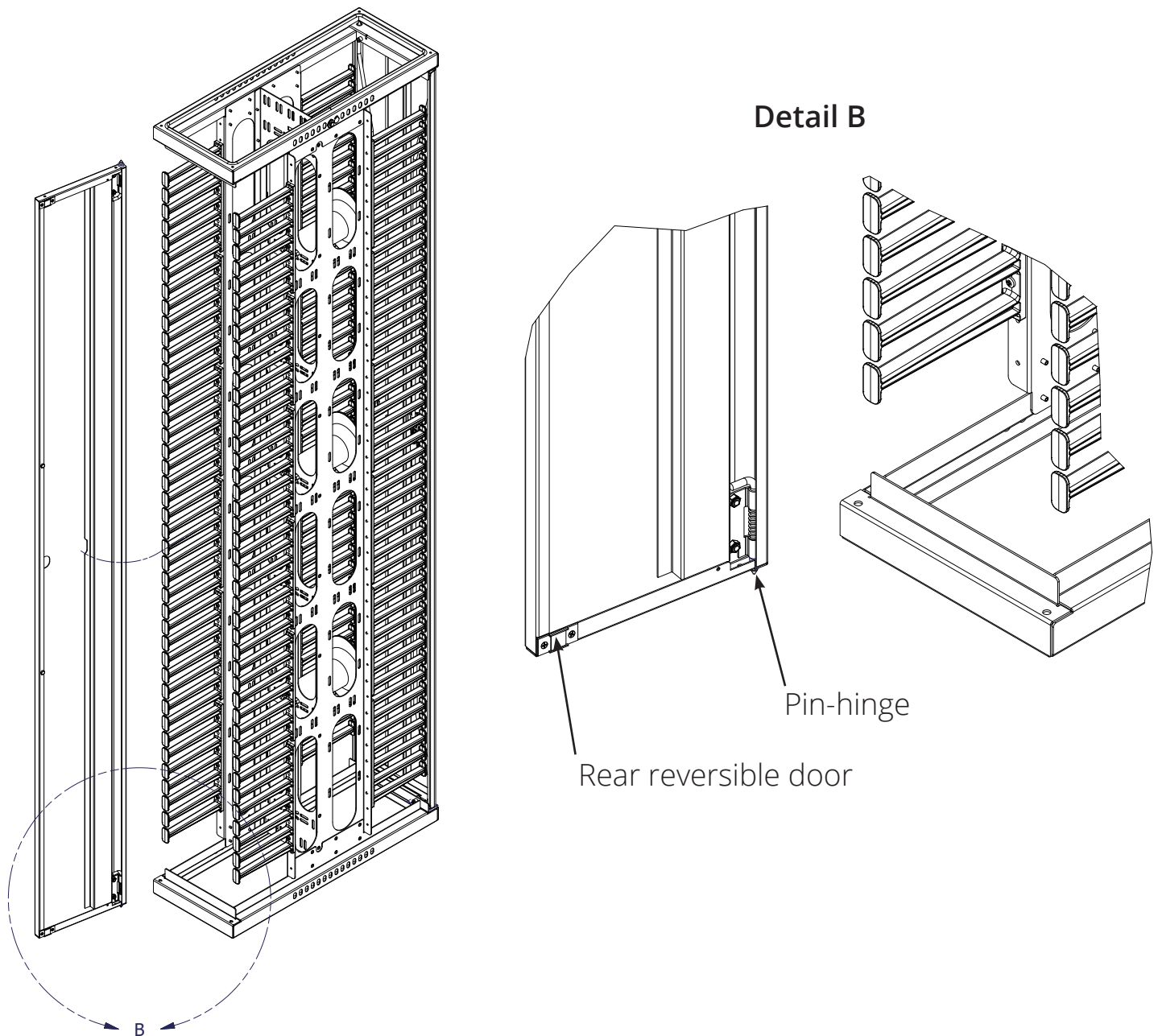See Detail A.

Top View

Variable mounting depth at 3/4"
Increments (6 ⅞" min. - 16 ⅝" max.)

FIELD REVERSIBLE REAR DOOR ON VCM-FR
ASSEMBLY
The rear door is installed right-hand hinge as standard from the manufacturer. To reverse the door follow the steps below:

1. Remove the rear door by pulling on the pin to release the pin-hinge (typical top and bottom of door)

2. Rotate the door and reinstall by pulling on the pin to align and engage the bottom pin-hinge with the frame. **ENSURE BOTH PINS ARE COMPLETELY TIGHTENED.**
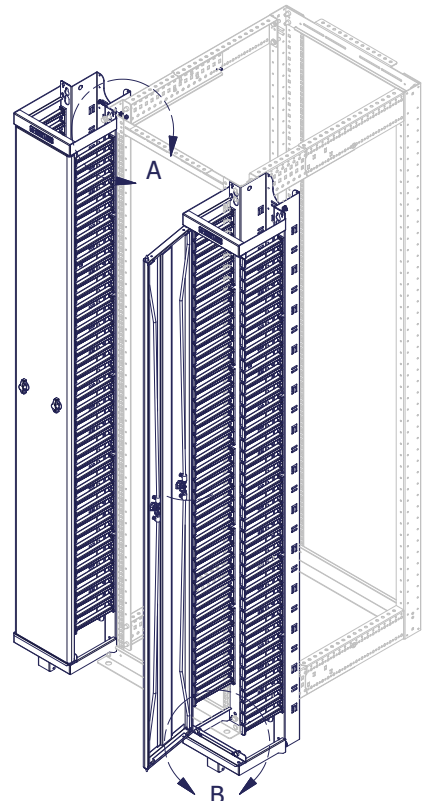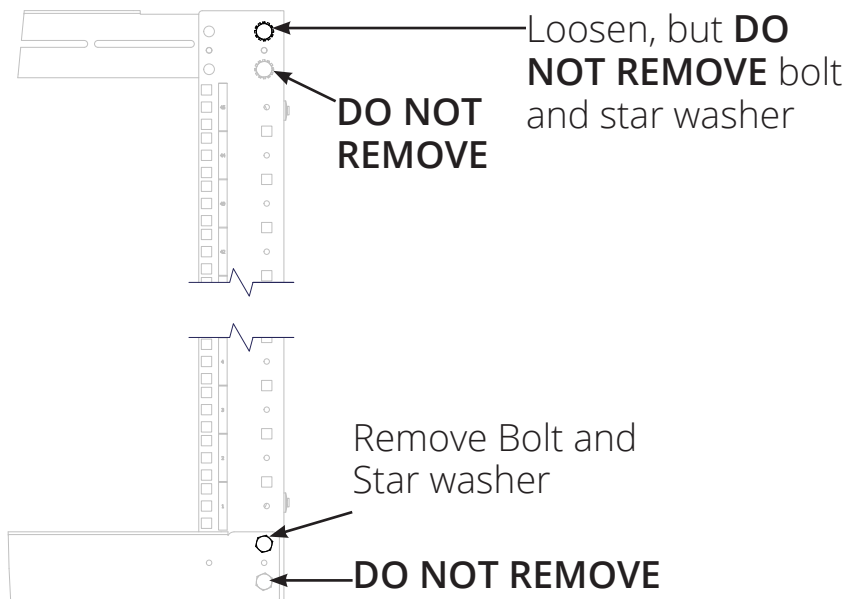
Detail B

Pin-hinge

Rear reversible door

B

VCMX-FO INSTALLED WITH GREAT LAKES RACKS

TOOLS: ⁹⁄₁₆", ⁷⁄₁₆" & ⅜" sockets or wrench

ASSEMBLY

1. The VCMX can be used in between two racks, at the end of a row or mounted to a single rack. If used between two racks, space 6 ¹⁄₁₆" apart.

2. A. Loosen but do not completely remove the first ⅜-16 bolt and star washer from the top of 4 post rack as shown in Front Rack View.
   NOTE: Do not remove the bottom bolt!
   B. Remove second ⅜-16 bolt and star washer from the bottom of 4 post rack as shown in Front Rack View.
   NOTE: Do not remove the bottom bolt!

3. Hook vertical cable manager through keyway holes onto the top bolt of the 4-post rack.
   NOTE: Do not tighten any hardware until carriage bolts are in place.

4. Secure the sides of the VCMX to rack with ¼-20 carriage bolts, washers, and ¼-20 nuts as shown in Detail A.

5. Reinstall bolt and star washer on bottom of frame through VCM

6. Insert auxiliary foot support from inside of cable manager as show in Detail B.

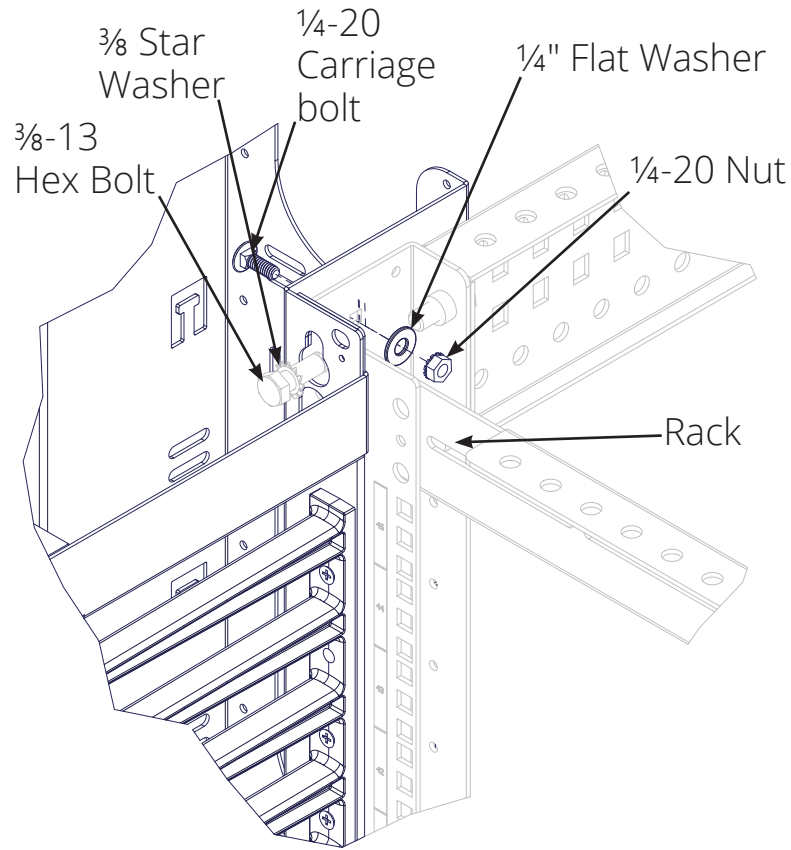**7.** Tighten all bolts to secure vertical cable manager
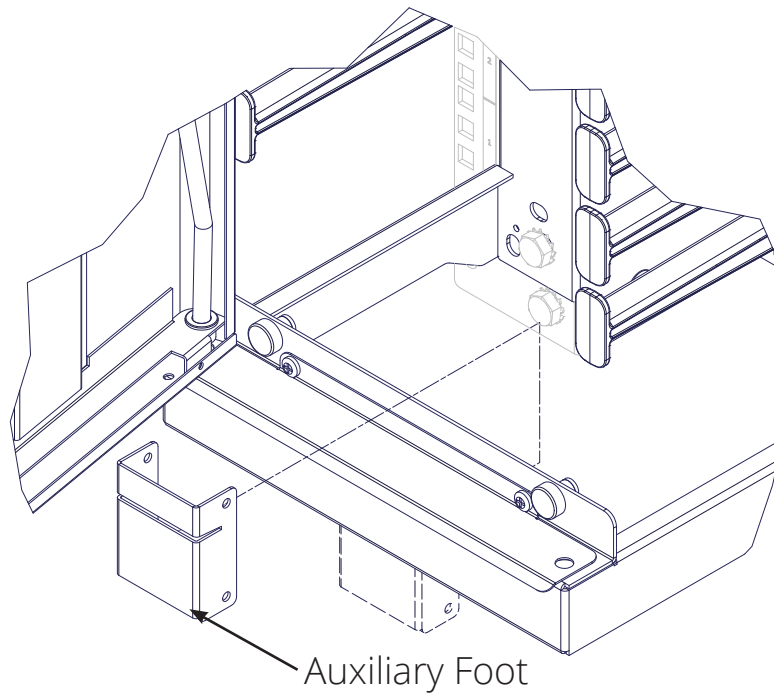
Front Rack View

Loosen, but **DO NOT REMOVE** bolt and star washer

DO NOT REMOVE

Remove Bolt and Star washer

DO NOT REMOVE

A

B

VCMX INSTALLED WITH GREAT LAKES RACKS (CONTINUED)

Detail A

⅜-13 Hex Bolt

⅜ Star Washer

¼-20 Carriage bolt
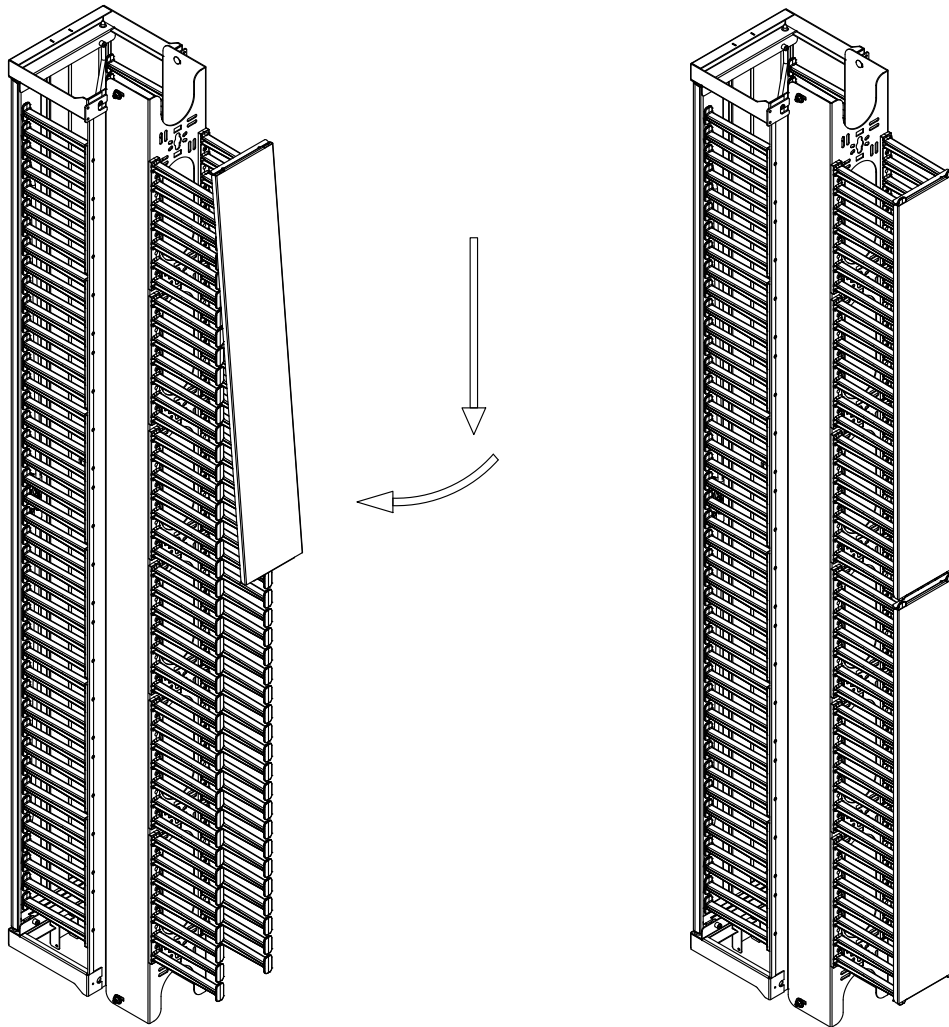
¼" Flat Washer

¼-20 Nut

Rack

Detail B

Auxiliary Foot

VCMX-FR INSTALLED WITH GREAT LAKES RACKS

To prevent damage during shipping, rear covers do not ship installed. Top and bottom covers are identical.

1. Install the VCMX-FR as shown on page 8 and 9, steps 1-6.
2 Hook top of cover onto top most fingers on rear of VCMX.
3. Pull cover straight down; this will flex the fingers slightly.
4. Swing bottom of cover in toward VCMX, hooking under bottom fingers in center of VCMX.
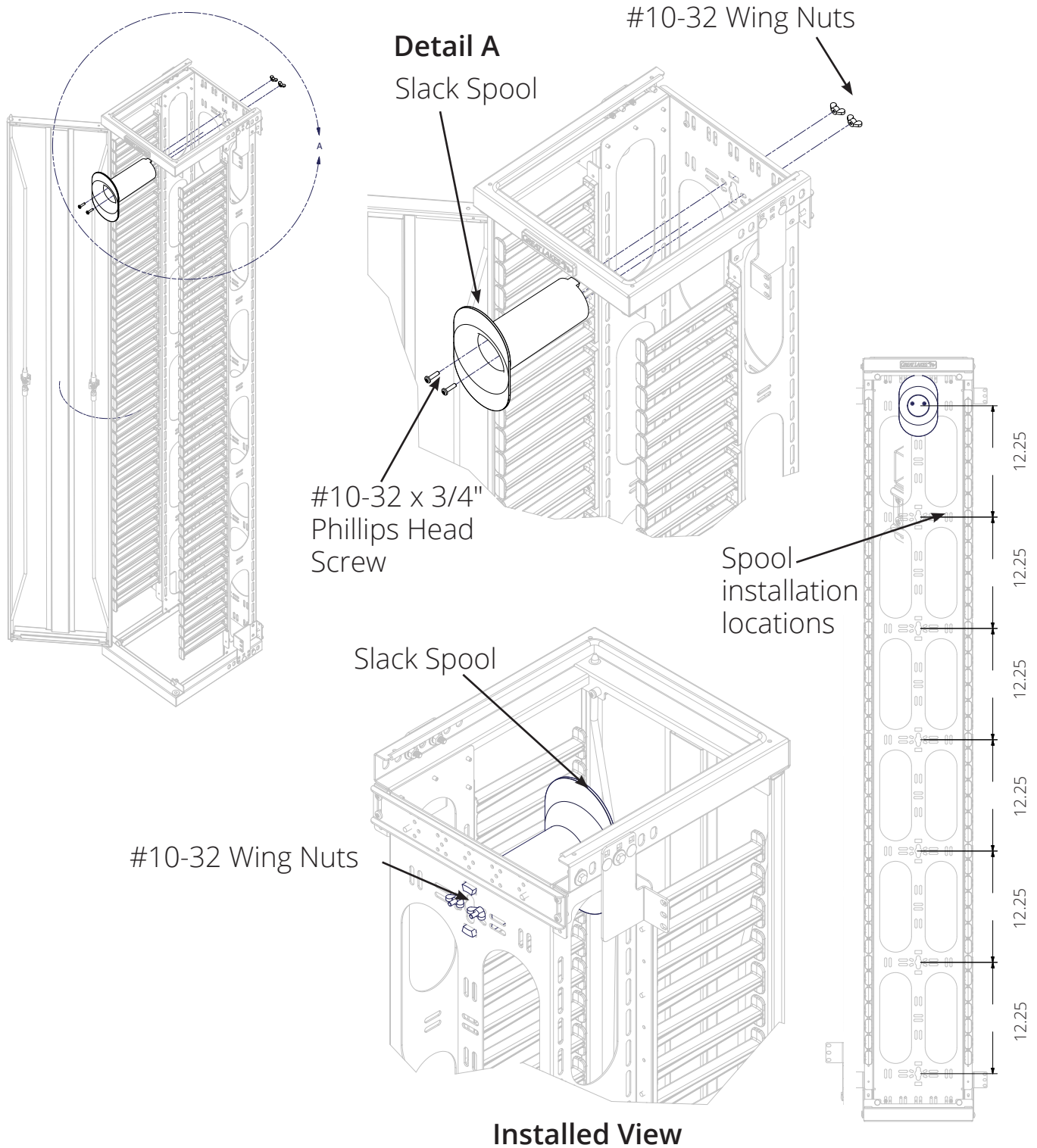**5.** Repeat this process for bottom cover.

VERTICAL CABLE MANAGER WITH SLACK SPOOLS

TOOLS: Phillips head screwdriver

ASSEMBLY

1. The 10" and 12" VCMs come with spools that are not installed. Spools can be installed in multiple locations along the manager at 12.25" intervals.

2. Install spools using hardware as shown in Detail A.

#10-32 Wing Nuts

Detail A
Slack Spool

#10-32 x 3/4"
Phillips Head
Screw

Spool
installation
locations

12.25

12.25

12.25

12.25

12.25

12.25

12.25

12.25

Slack Spool

#10-32 Wing Nuts

Installed View

GREAT LAKES
DATA RACKS & CABINETS

Thank you for your business!