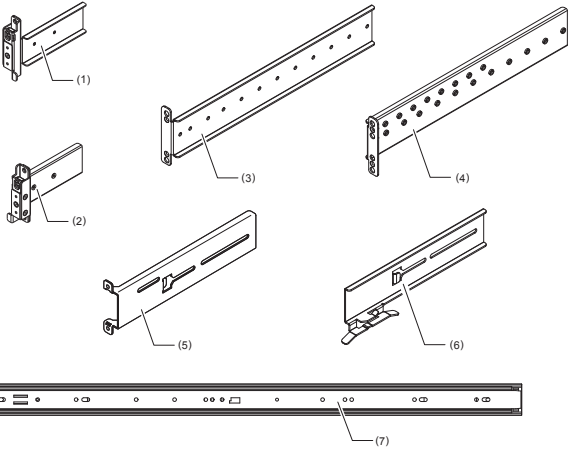


This document describes the procedures for assembling and attaching the rail kit and cable management arm (CMA) to the SPARC Enterprise M3000 server, in preparation for installing the M3000 server in a rack.

Components Check List

● Rail kit / 350-1570 (CA07082-E027)



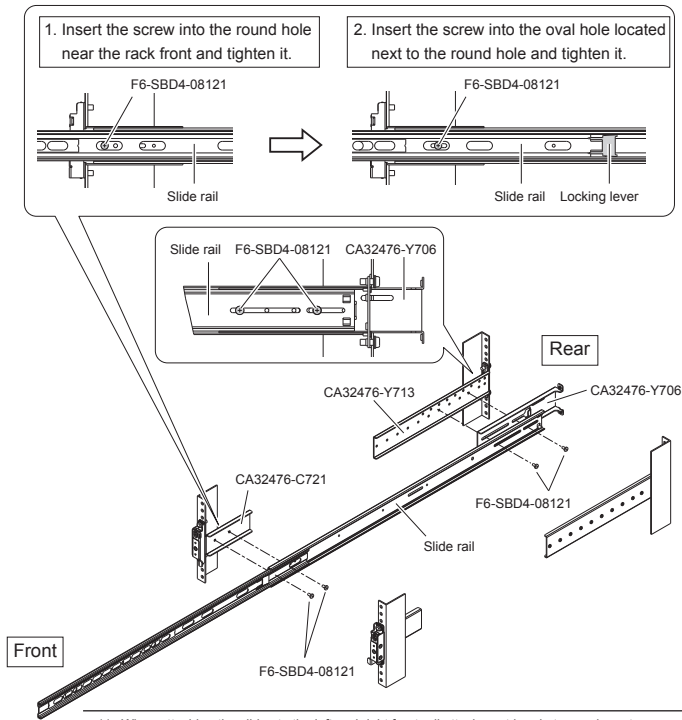
Parts name	CA drawing number	Required number	Remarks
1 Left front bracket	CA32476-C721	1	
2 Right front bracket	CA32476-C722	1	
3 Right rear bracket	CA32476-Y715	1	With attachment bracket
4 Left rear bracket	CA32476-Y713	1	With attachment bracket
5 Left rear bracket	CA32476-Y706	1	
6 Right rear bracket	CA32476-Y707	1	
7 Slide rail	CA82254-0015	2	Same articles for right and left

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4 Attach the slide rail to the left front bracket (CA32476-C721) and the left rear bracket (CA32476-Y713), which are secured to the left columns.

- Attach the slide rail to CA32476-C721. *1
- Attach CA32476-Y706 to the end of the slide rail and attach the slide rail to CA32476-Y713. *2

To attach the bracket, use M4 screws (F6-SBD4-08121).

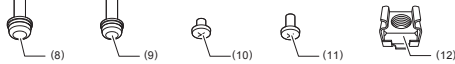


*1: When attaching the slides to the left and right front rail attachment brackets, you have to move the middle slide rail so as to expose the screw hole in the brackets. First, fully draw out the middle slide rail and tighten the screw in the round hole near the rack front. Then, move the middle slide rail back while holding down the locking lever and tighten the screw in the center of the oval hole which is located next to the round hole.

*2: When multiple screw holes are available on CA32476-Y713, use the holes that are nearest to and farthest from the rear column.

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● Rail kit (screws) / 350-1570 (CA07082-E027)



Parts name	CA drawing number	Required number	Remarks
8 M6 screw	F6-SW2N6-16121	8	M6 x 16 mm
9 M5 screw	F6-SW2N5-16121	4	M5 x 16 mm
10 M4 screw (short)	F6-SBD4-05121	8	M4 x 5 mm
11 M4 screw (long)	F6-SBD4-08121	8	M4 x 8 mm
12 M6 cage nut	CA30205-0237	8	

● Types of Rack Columns

There are three types of rack columns:
Threaded holes / Round non-threaded holes / Square rack holes

Installation procedures and the required components will vary based on the type of rack columns.



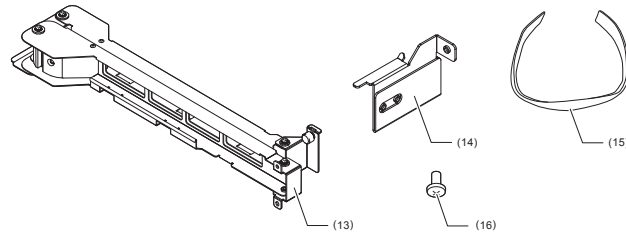
Caution - Before installing the server in the rack, make certain that all screws are properly tightened.

* The rack columns with threaded holes or the rack columns with square rack holes use all eight M6 screws (F6-SW2N6-16121).

* The rack columns with round non-threaded holes will require:
- four M6 screws on the front surface of the rack.
- four M5 screws on the rear surface of the rack.

Note - If your rack does not have threaded mounting holes, the mounting screws are secured with eight M6 cage nuts (CA30205-0237).

● Cable management arm kit / 350-1571 (CA07082-E012)



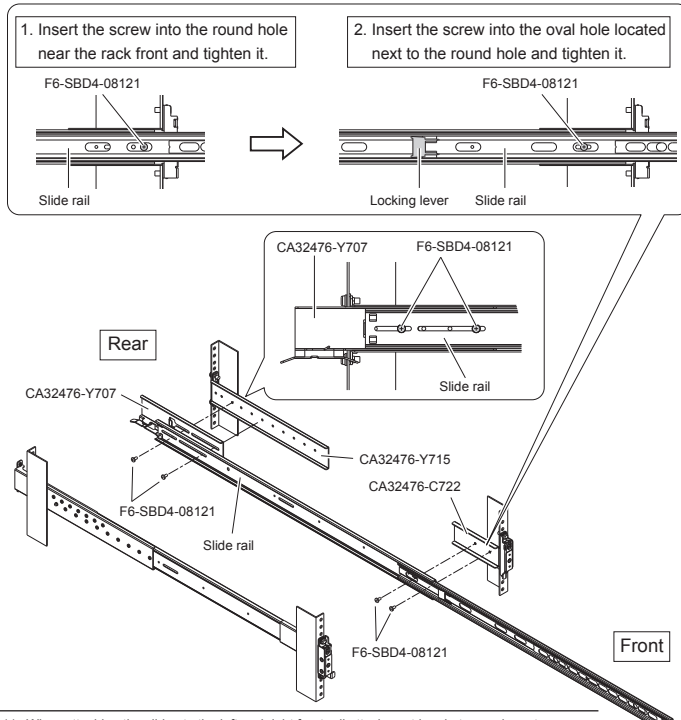
Parts name	CA drawing number	Required number	Remarks
13 Cable management arm	CA32476-C750	1	
14 Left rear holding bracket	CA32476-Y766	1	
15 Velcro fastener	CA32476-Y764	6	
16 M4 screw (long)	F6-SBD4-08121	4	M4 x 8 mm

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5 Attach the slide rail to the right front bracket (CA32476-C722) and the right rear bracket (CA32476-Y715), which are secured to the right columns.

- Attach the slide rail to CA32476-C722. *1
- Attach CA32476-Y707 to the end of the slide rail and attach the slide rail to CA32476-Y715. *2

To attach the bracket, use M4 screws (F6-SBD4-08121).



*1: When attaching the slides to the left and right front rail attachment brackets, you have to move the middle slide rail so as to expose the screw hole in the brackets. First, fully draw out the middle slide rail and tighten the screw in the round hole near the rack front. Then, move the middle slide rail back while holding down the locking lever and tighten the screw in the center of the oval hole which is located next to the round hole.

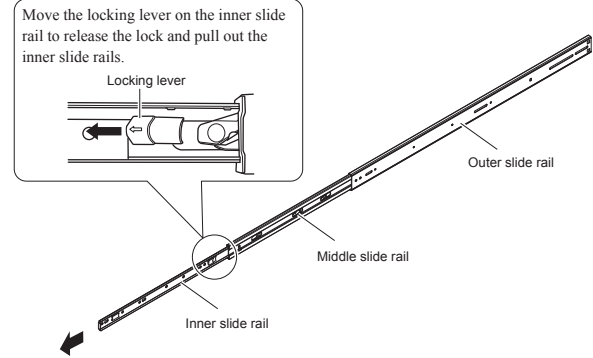
*2: When multiple screw holes are available on CA32476-Y715, use the holes that are nearest to and farthest from the rear column.

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Attaching the Slide Rails

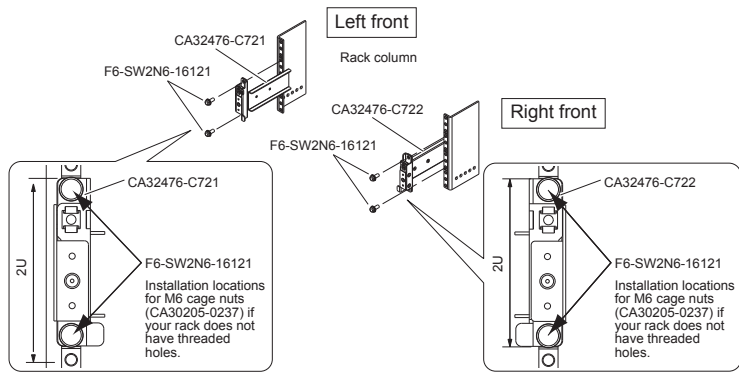
1 Completely remove the inner slide rails from the slide rails.

The slide rail consists of outer slide rail, middle slide rail, and inner slide rail. Inner slide rails are to be attached to both side surfaces of the server (see 6).



2 Attach the left front bracket (CA32476-C721) and the right front bracket (CA32476-C722) to the front rack columns.

To secure the brackets, use two M6 screws (F6-SW2N6-16121) to each of the front rack columns.

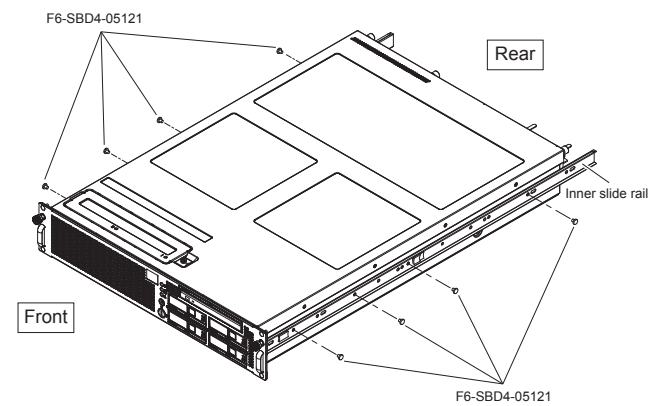


Note - If your rack does not have threaded mounting holes, the mounting screws are secured with M6 cage nuts (CA30205-0237).

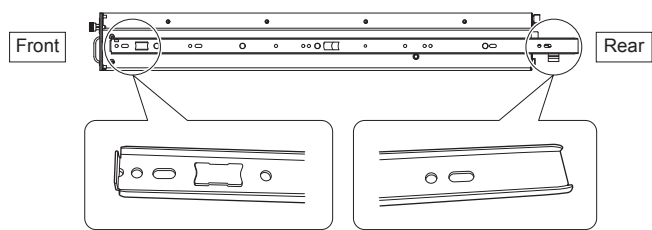
- 3 -

6 Attach the inner slide rails that you removed in 1 to the side of the server.

To attach the inner slide rail, use four M4 screws (F6-SBD4-05121) on each side surface of the server.



● Right side view

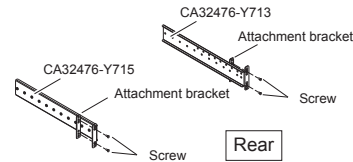


3 Attach the left rear bracket (CA32476-Y713) and the right rear bracket (CA32476-Y715) to the rack columns. *1

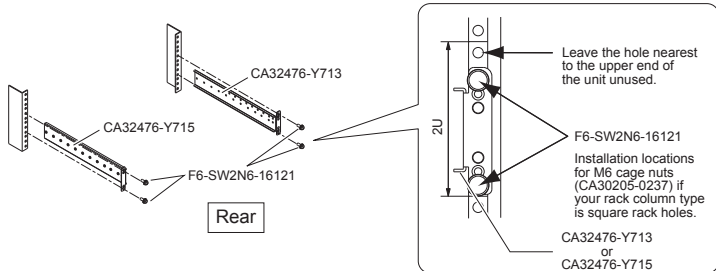
*1: Installation procedures and the required components will vary based on the type of the rack columns: threaded holes, round non-threaded holes, or square rack holes.

● The rack columns with threaded holes or the rack columns with square rack holes (as viewed from the rear):

- Remove the attachment bracket from CA32476-Y713 and CA32476-Y715.

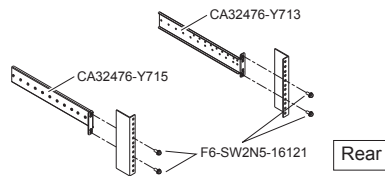


- Attach CA32476-Y713 and CA32476-Y715 to the rack columns.



● The rack columns with round non-threaded holes (as viewed from the rear):

- Attach CA32476-Y713 and CA32476-Y715 to the rack columns.

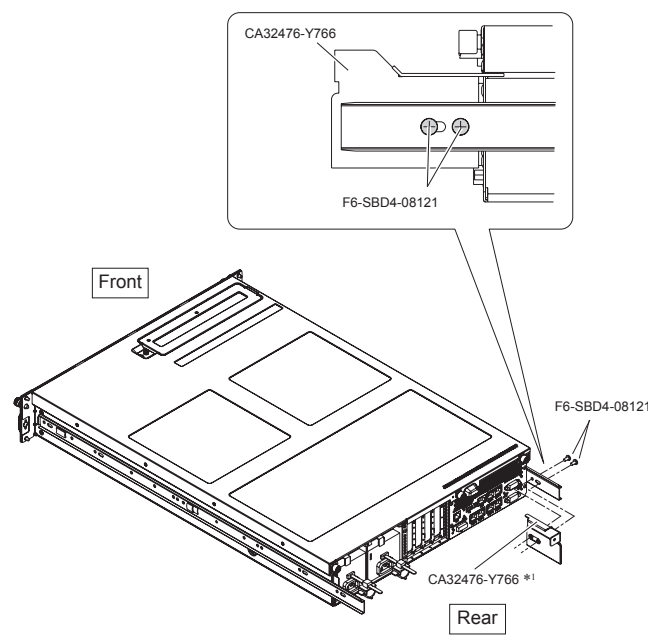


Note - If your rack does not have threaded mounting holes, the mounting screws are secured with M6 cage nuts (CA30205-0237).

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7 Attach the left rear holding bracket (CA32476-Y766) to the inner slide rail.

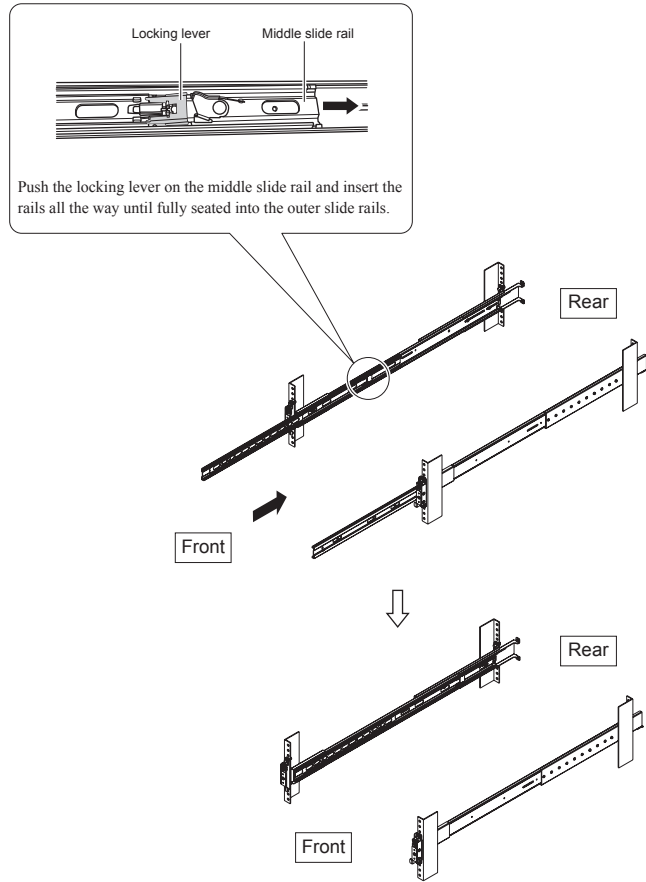
To secure CA32476-Y766, attach two M4 screws (F6-SBD4-08121) on the inner slide rail and tighten.



*1: When replacing or repairing the rail kit, you can use the holding bracket (CA32476-Y766) included in this CMA kit or the holding bracket (CA32476-Y763) in previous CMA kits.

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- 8 Insert the middle slide rail into the outer slide rails until fully seated.

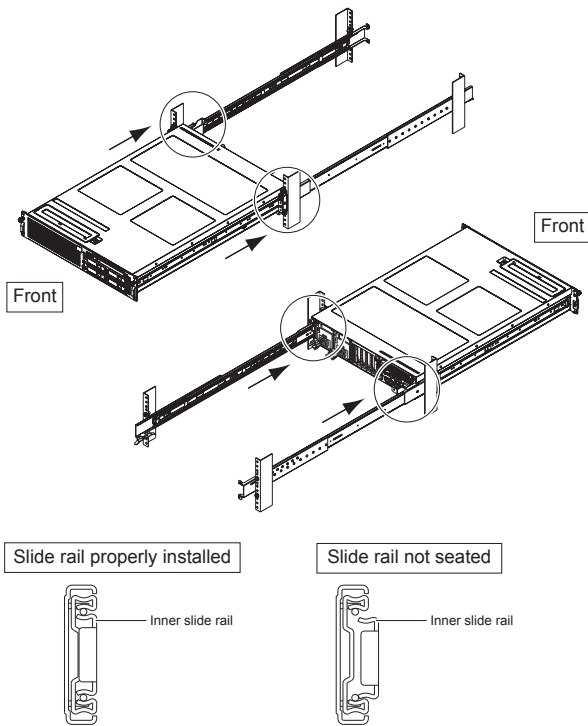


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Checking of Installed Slide Rails

Caution - To avoid possible damage to the server, follow these procedures carefully.

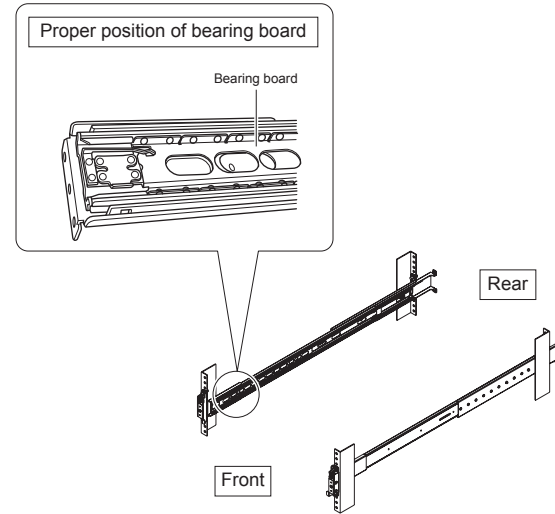
- 1 Check the placement of the slide rails at four places from the direction of the arrow.



Note - With the server extended fully out on the rails and firmly supported by two people, gently shake it to make sure the server does not come off from the slide rails.

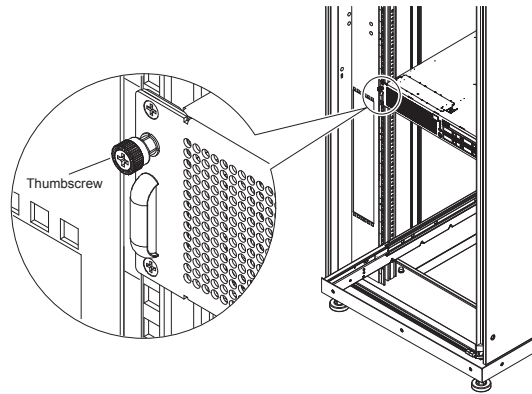
- 13 -

- 9 Make sure that the bearing board (thin metal sheet with oval holes) that is housed in the rails is at the front end of the rail.



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- 2 In case the slide rails are not properly installed, rework from Step 8.
- 3 Tighten the two thumbscrews on the front bezel to secure the server to the rack.

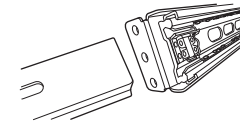


- 14 -

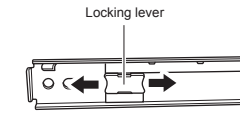
- 10 Release the locking lever on the inner slide rails and insert the server into the rack.

Caution - Prior to installing a server in the equipment rack, deploy the anti-tilt feature for your rack.

- a. Place the tip of the inner slide rail to the groove on the middle slide rail and insert the server into the rack.



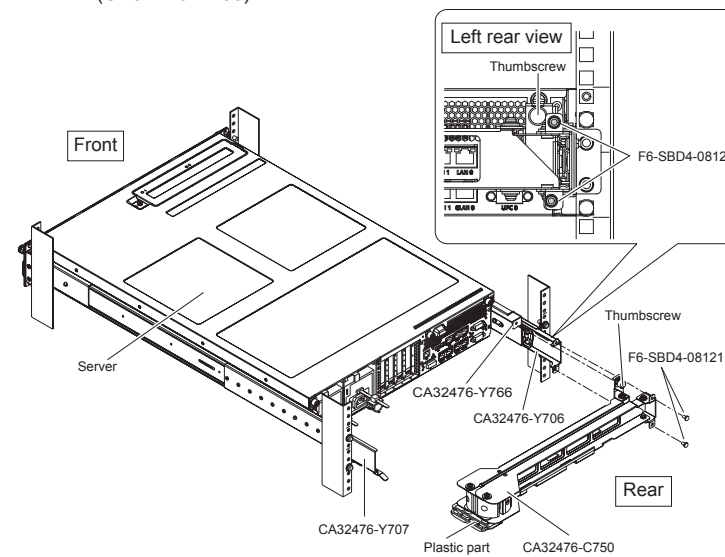
- b. While inserting the server in the rack, a click should be heard to indicate the server is in locked position.
- c. Move the locking lever on the inner slide rail backwards or forwards to release the lock, and continue to carefully insert the server in the rack until fully seated.



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Attaching the Cable Management Arm

- 1 Place rear arm of the CMA (CA32476-C750) into the left rear bracket (CA32476-Y706).
- At the same time, hook the plastic part of the CMA to the right rear bracket (CA32476-Y707).
- 2 Use two M4 screws (F6-SBD4-08121) to secure the CMA to the left rear bracket (CA32476-Y706).
- a. Attach the upper screw and tighten it temporarily.
- b. Before tightening the lower screw, move CA32476-C750 away from CA32476-Y707 and adjust the position of the holes. Adjust the tilt of CA32476-C750 so that you can hook the plastic part of it on CA32476-Y707, then tighten the upper and the lower screws.
- 3 Slide the CMA to move it into the right rear bracket (CA32476-Y707).
- 4 Attach the thumbscrew of the CMA to the left rear holding bracket (CA32476-Y766).



*1: When replacing or repairing the rail kit only, you can use the screws included in the previous cable management arm kit.

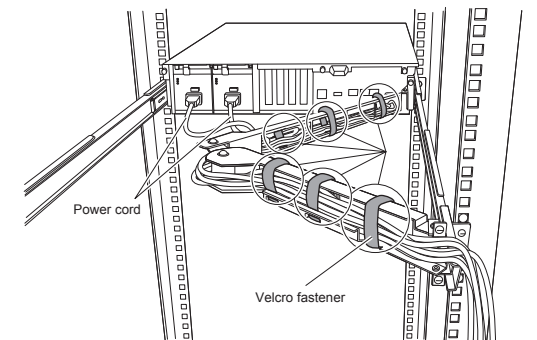
- 15 -

- 5 Connect the power cord to the rear of the server.

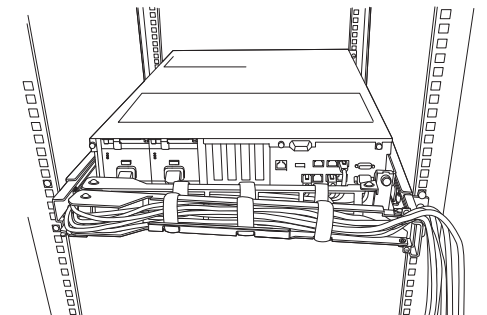
- 6 Pass the Velcro fasteners through the six cut-outs on the CMA to secure the cables such as power cords and LAN cables in a bundle.

Note - Pull the server out to the front to give the cables the excess length.

- Status of cables when the server is pulled out



- Status of cables when the server is stored in the rack



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