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Flush Mount Rack Kit

Installation Procedure

Supporting the Brocade VDX 6710-54, VDX 6720-24, VDX 6720-60, VDX 6730-32, VDX 6730-76, and VDX 6740

BROCADE

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Document History

Document Title	Publication Number	Summary of Changes	Date
Flush Mount Rack Kit Installation Procedure	53-1002127-01	New document	December 2010
Flush Mount Rack Kit Installation Procedure	53-1002127-02	Added support for VDX 6710 and VDX 6730 models	September 2011
Flush Mount Rack Kit Installation Procedure	53-1002127-03	Added support for VDX 6740 model	July 2013

Contents

This document provides instructions to install a Brocade VDX 6710-54 (1U), VDX 6720-24 (1U), VDX 6730-32 (1U), VDX 6720-60 (2U), VDX 6730-76 (2U), or VDX 6740 (1U) switch in a telecommunications (Telco) rack using the Flush Mount Kit. The document is organized as follows.

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Introduction

The supported switches are listed in Table 1.

TABLE 1 Supported switches

Switch height	Switch model
1U	Brocade VDX 6710-54 Brocade VDX 6720-24 Brocade VDX 6730-32 Brocade VDX 6740
2U	Brocade VDX 6720-60 Brocade VDX 6730-76

Installation requirements

Allow 15 to 30 minutes to complete this procedure. Note the following requirements to ensure correct installation and operation:

- Verify that the additional weight of the switch does not exceed the rack's weight limits.
- Ensure that an electrical branch circuit with the following characteristics is available:
  - Required voltage and frequency as indicated in the hardware reference manual (200-230 VAC is always preferred).
  - Protection by a circuit breaker in accordance with local electrical codes.
  - Supply circuit, line fusing, and wire size that conform to the electrical rating on the switch nameplate.
  - Grounded outlet compatible with the power cord and installed by a licensed electrician.
- Ensure that all equipment installed in the rack is grounded through a reliable branch circuit connection. Do not rely on a secondary connection to a branch circuit, such as a power strip.
- Ensure that the rack is mechanically secured to ensure stability.
- Ensure that the air temperature at the fan inlet is less than 40°C (104°F) during switch operation.
- Ensure that the airflow available at the air vents meets the minimum requirements for the switch.

ATTENTION
Install the switch with the airflow aligned with any other switches in the rack. Some switches have airflow running from port side to fan side and others have the opposite arrangement. Make sure that the airflow for all switches moves in the same direction to maximize cooling.

Tool requirements and parts list

The following items are required to install a switch using the mid-mount rack kit:

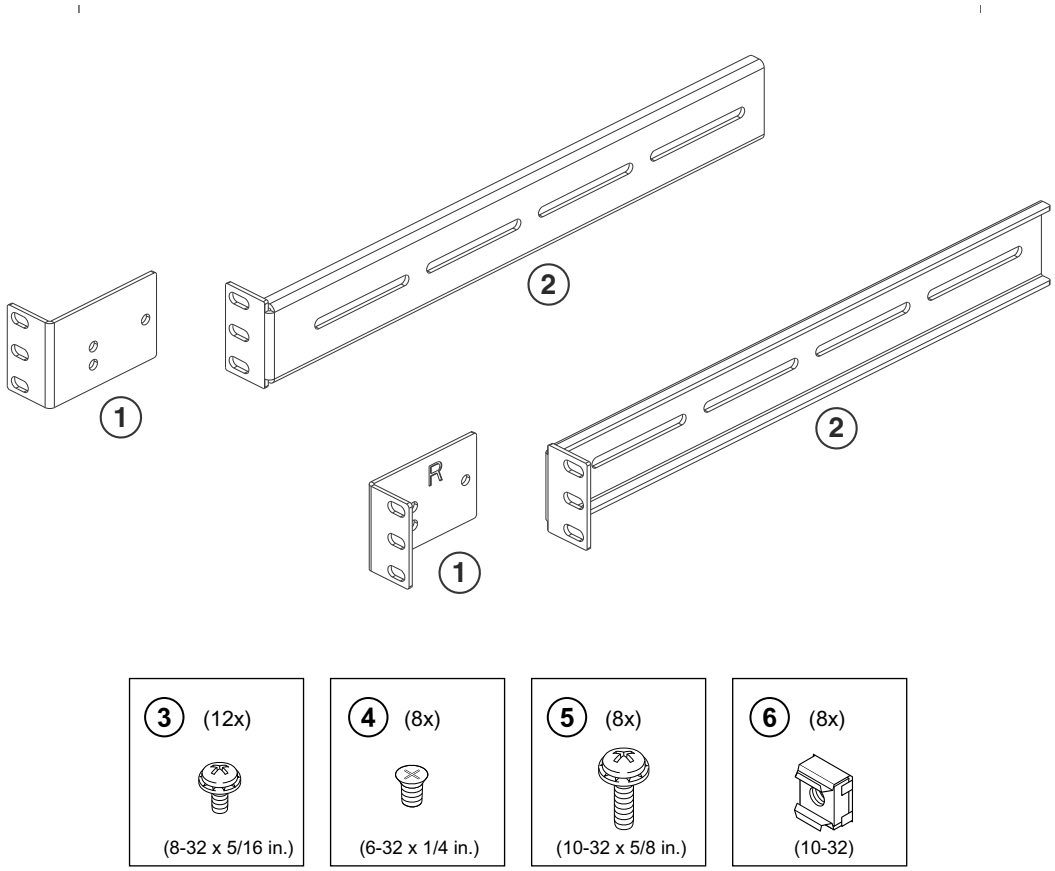
- Clamps or other means of temporarily supporting the switch in the rack.
- Phillips #2 torque screwdriver
- 1/4-inch slotted blade torque screwdriver

ATTENTION
Use the screws specified for use with the switch. Longer screws can damage the switch.

Ensure that the items listed in Table 2 and illustrated in Figure 1 are included in the kit.

TABLE 2 Parts list

Description	Quantity
Brackets, front right and left	2
Brackets, rear right and left	1
Screw, 8-32 x 5/16-in., panhead Phillips	12
Screw, 6-32 x 1/4-in., flathead Phillips	8
Screw, 10-32 x 5/8-in., panhead Phillips	8
Retainer nut, 10-32	8



1 Front brackets, right and left
2 Rear brackets, right and left
3 Screw, 8-32 x 5/16-in., panhead Phillips
4 Screw, 6-32 x 1/4-in., flathead Phillips
5 Screw, 10-32 x 5/8-in., panhead Phillips
6 Retainer nut, 10-32

FIGURE 1 Items in the Flush Mount Rack Kit

Installation procedure

ATTENTION
The switch must be turned off and disconnected from the fabric during this procedure.

NOTE
Although this document describes how to install both single height (1U) and double height (2U) switches, the illustrations show a 2U switch as a typical installation.

Complete these tasks to install the switch in a rack:

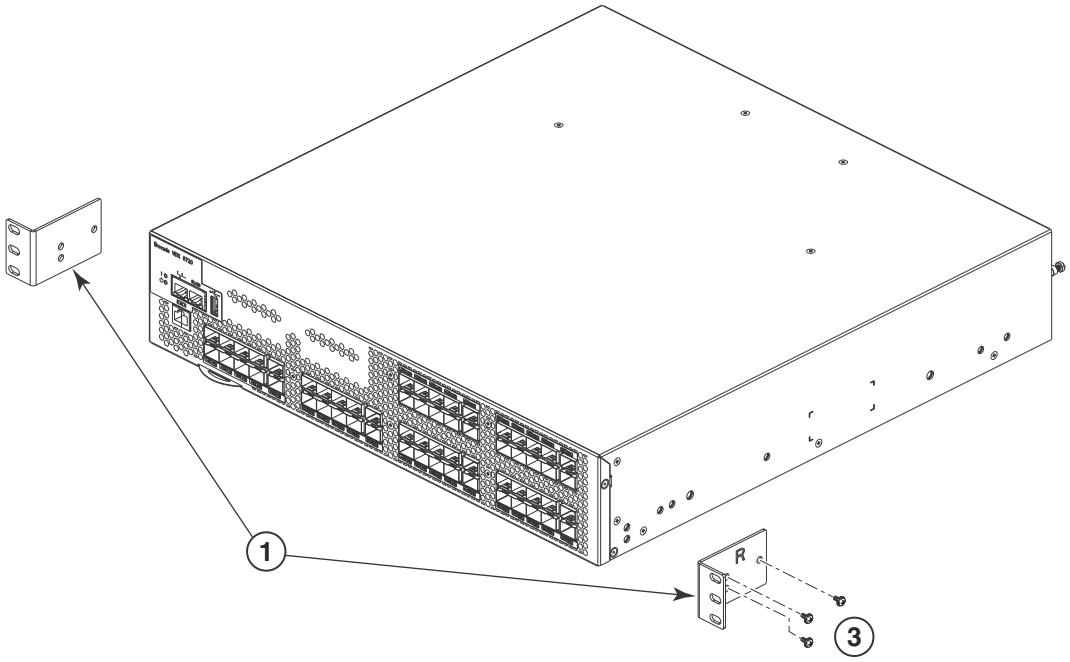
- "Attaching front brackets to the switch"
- "Attaching front brackets to a rack"
- "Attaching rear brackets to a rack"

- "Attaching rear brackets to the switch"

Attaching front brackets to the switch

Complete the following steps to attach the front brackets to the switch.

1. Position the right front bracket with the flat side against the right side of the switch as shown in Figure 2.
2. Insert two 8-32 x 5/16-in. screws through the pair of vertically aligned holes in the bracket and then into the pair of holes on the side of the switch.
3. Insert another 8-32 x 5/16-in. screw through the third hole in the bracket and into the corresponding hole in the switch.
4. Repeat step 1 through step 3 to attach the left front bracket to the left side of the switch.
5. Tighten all 8-32 x 5/16-in. screws to a torque of 15 in-lbs. (17 cm-kgs).



1 Front brackets, right and left

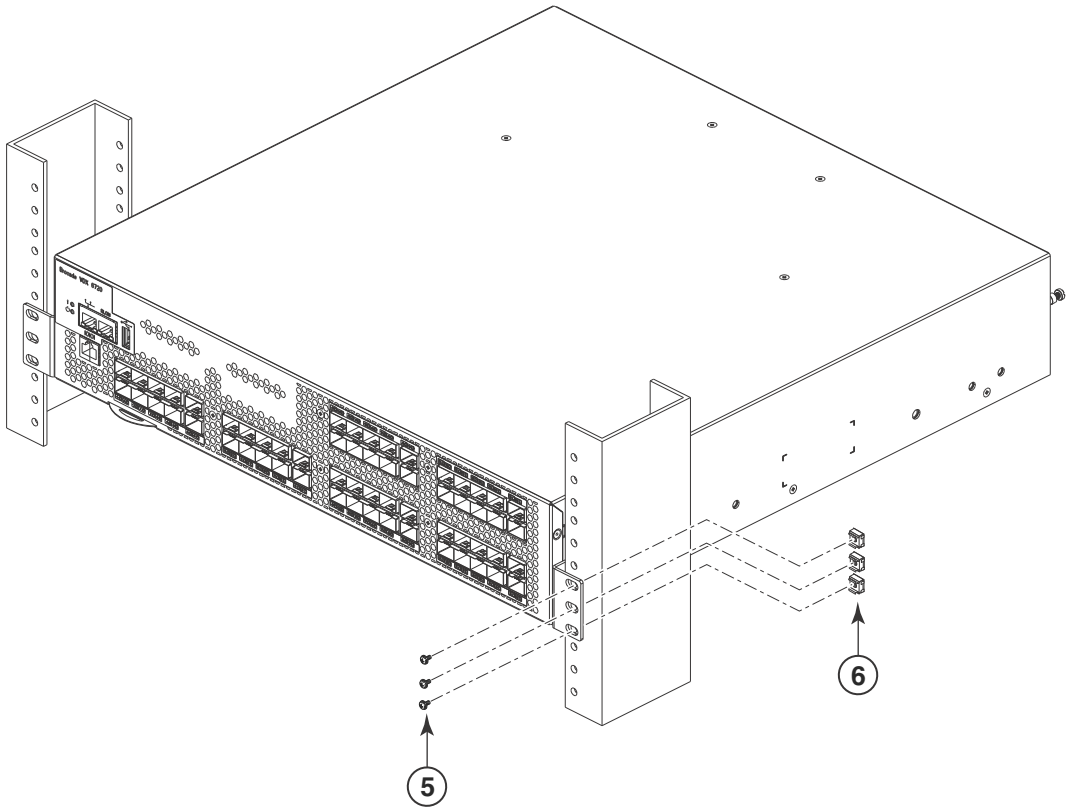
3 Screw, 8-32 x 5/16-in., panhead Phillips

FIGURE 2 Attaching the front brackets

Attaching front brackets to a rack

Complete the following steps to install the switch in the rack.

1. Position the switch in the rack (Figure 3), providing temporary support under the switch until the rail kit is fully secured to the rack.
2. Attach the right front bracket to the right rack upright using three 10-32 x 5/8-in. screws and three retainer nuts as shown in Figure 3.
3. Attach the left front bracket to the left rack upright using three 10-32 x 5/8-in. screws and three retainer nuts.
4. Tighten all the 10-32 x 5/8-in. screws to a torque of 25 in-lbs. (29 cm-kgs).



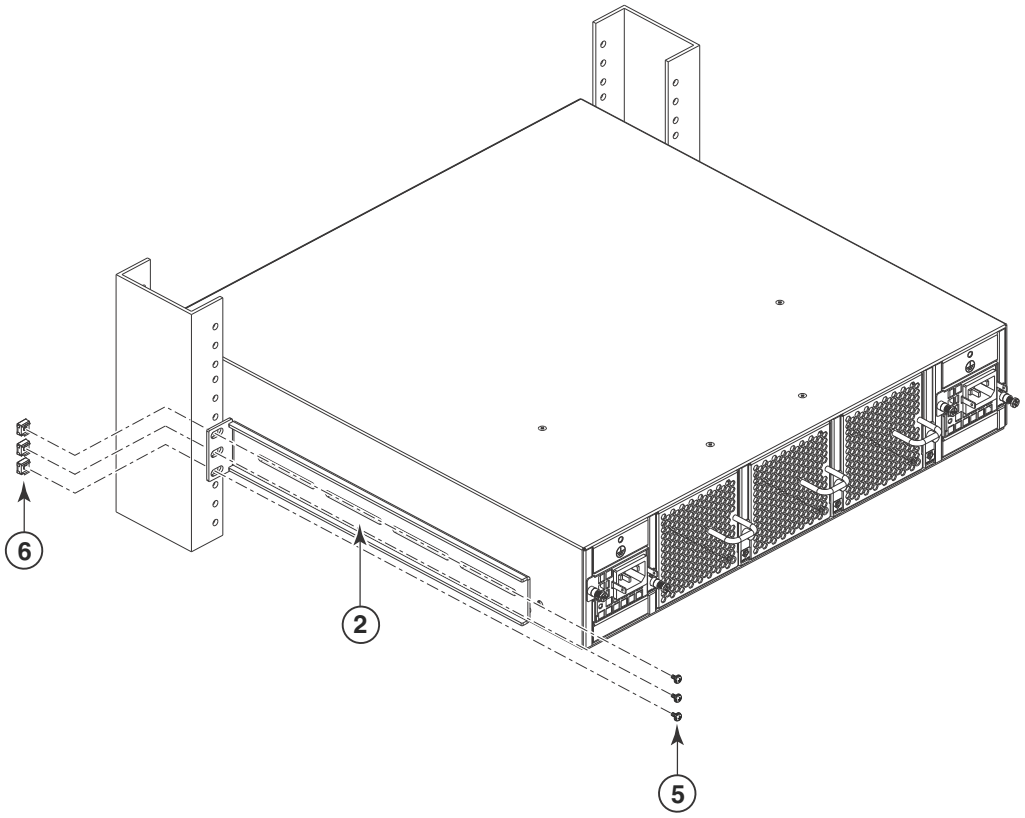
5 Screw, 10-32 x 5/8-in., panhead Phillips 6 Retainer nut, 10-32

FIGURE 3 Attaching front brackets to a rack

Attaching rear brackets to a rack

Complete the following steps to attach the rear brackets to the rack.

1. Position the right rear bracket in the right rear of the switch as shown in Figure 4.
2. Attach the brackets to the right rack upright using three 10-32 x 5/8-in. screws and retainer nuts.
3. Repeat step 1 and step 2 to attach the left rear bracket to the left rack upright.
4. Tighten all the 10-32 x 5/8-in. screws to a torque of 25 in-lbs. (29 cm-kgs).



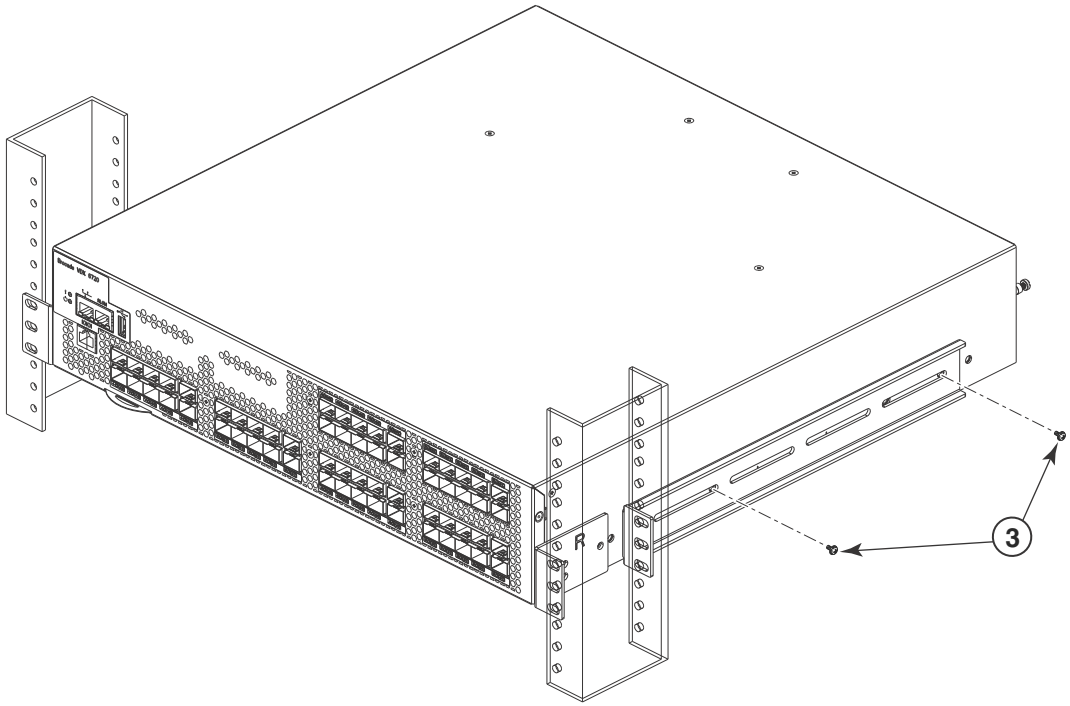
2 Rear brackets, right (left side similar)
5 Screw, 10-32 x 5/8-in., panhead Phillips
6 Retainer nut, 10-32

FIGURE 4 Attaching the rear brackets to a rack

Attaching rear brackets to the switch

Complete the following steps to attach the rear brackets to the switch.

1. Align the right rear bracket to the right rear of the switch and using two 8-32 x 5/16-in. screws, attach the bracket to the switch as shown in Figure 5.
2. Align the left rear bracket to the left rear of the switch and using two 8-32 x 5/16-in. screws, attach the bracket to the switch.
3. Tighten all the 8-32 x 5/16-in. screws to a torque of 15 in-lbs. (17 cm-kgs).



3 Screws, 8-32 x 5/16-in., panhead Phillips

FIGURE 5 Attaching the rear bracket to the switch