Chapter 3

Rack Mounting the Switch

Important! The rack mounting procedure is identical for all switches covered by this guide. Illustrations in this chapter depict the mounting of a DCS-7050QX-32S switch.

Les procédure de montage du bâti est identique pour tous les commutateurs visés par ce guide. Illustrations dans ce chapitre montrent le montage d'un interrupteur de DCS-7050QX-32S.

- Section 3.1 provides instructions for mounting the switch in a two-post rack.
- Section 3.2 provides instructions for mounting the switch in a four-post rack.

After completing the instructions for your rack type, proceed to Chapter 4.

3.1 Two-Post Rack Mount

To mount the switch onto a two-post rack, assemble the mounting brackets to the chassis, then attach the brackets to the rack posts. Two-post accessory kits include the following two-post mounting parts:

- 2 three-hole mounting brackets

Each chassis side has attachment pins that align with bracket holes. Pin orientation is symmetric and equidistant, supporting bracket placements where the flange is flush with the front switch panel, flush with the rear panel, or not flush with either panel. Each bracket hole includes a key-opening for placing the bracket flush with the chassis and then locking it into place.

Important! Attachment pins must engage all three upper bracket holes.

Goupilles de fixation doivent être bloquer tous les trois trous de la bride supérieure..

Figure 3-1 on page 10 displays proper bracket mount configuration examples. Figure 3-2 on page 10 displays improper bracket mount configuration examples.

3.1.1 Attaching Mounting Brackets to the Chassis

This procedure attaches mounting brackets to the switch chassis (Figure 3-3).

Step 1 Align the mounting brackets with the attachment pins to obtain the desired mounting position.

Step 2 Place the bracket flush on the chassis with attachment pins protruding through key-openings.

Figure 3-1: Bracket Mount Examples for Two-Post Rack Mount

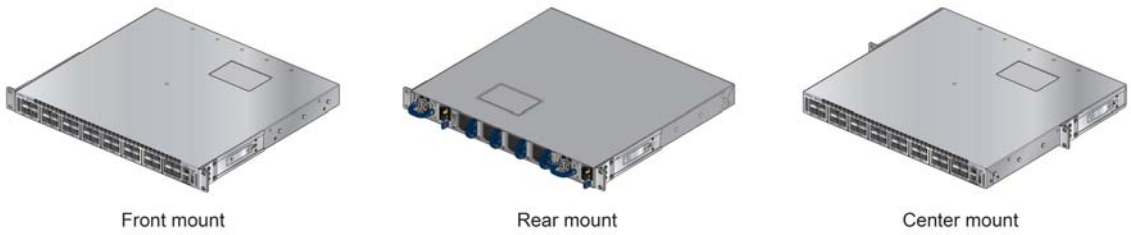
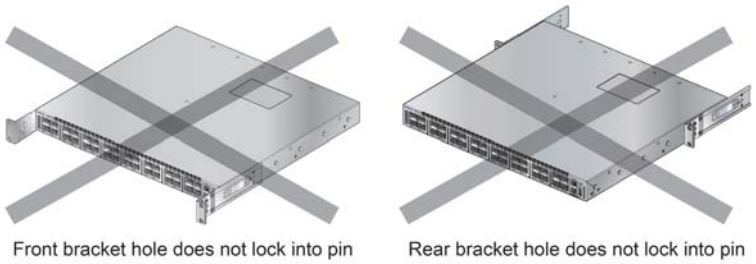
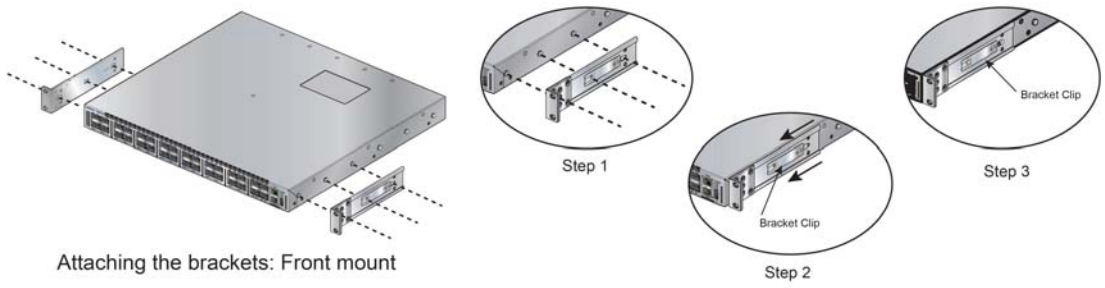


Figure 3-2: Improper Bracket Mount Examples for Two-Post Rack Mount



Step 3 Slide the bracket toward the front flange until the bracket clip locks with an audible click.

Figure 3-3: Attaching the Mounting Brackets to the Switch Chassis



To remove the mounting bracket from the chassis, lift the front edge of the mounting bracket clip with a flathead screwdriver and slide the bracket away from the front flange (opposite from the installation direction).

3.1.2 Inserting the Switch into the Rack

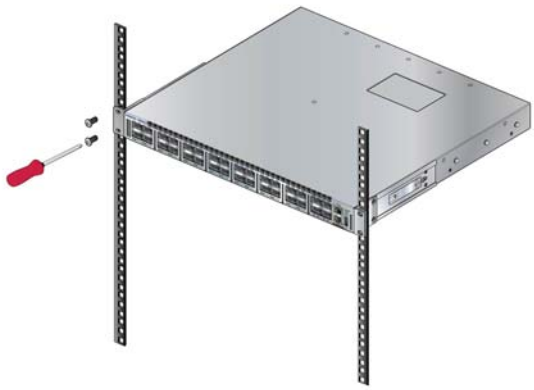
This procedure attaches the switch to the rack (Figure 3-4).

Step 1 Lift the chassis into the rack. Position the flanges against the rack posts.

Step 2 Select mounting screws that fit your equipment rack.

Step 3 Attach the bracket flanges to the rack posts.

Figure 3-4: Inserting the Switch into the Rack



After completing the two-post rack mount, proceed to Chapter 4.

3.2 Four-Post Rack Mount

The switch is mounted onto a four-post rack by assembling two rails onto the rear posts, sliding the switch onto the rails, then securing the switch to the front posts.

The installation kit provides the following four-post mounting parts:

- 2 six-hole mounting brackets
- 2 rail-rods
- 2 rail-slides

  The rail-rods and rail-slides assemble into two identical slide-rails.

Each chassis side has attachment pins that align with bracket holes. Pin orientation is symmetric and equidistant, supporting bracket placements where the flange is flush with the front switch panel, flush with the rear panel, or not flush with either panel. Each bracket hole includes a key-opening for placing the bracket flush with the chassis and then locking it into place.

Important! Attachment pins must engage at least five of the six bracket holes.

Goupilles de fixation doivent être lock au moins cinq des trous du six support.

Figure 3-5 displays proper bracket mount configuration examples. Figure 3-6 displays an improper bracket mount configuration example.

Figure 3-5: Bracket Mount Examples for Four-Post Rack Mount

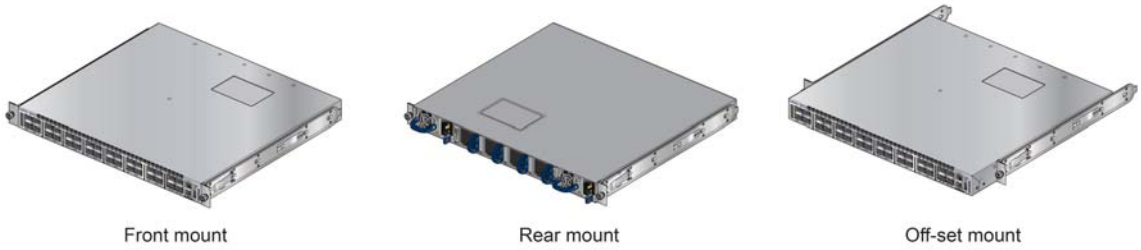
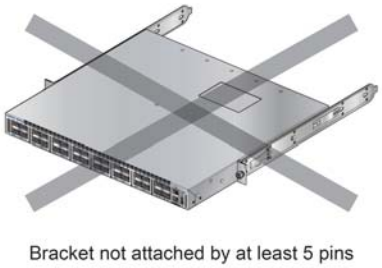


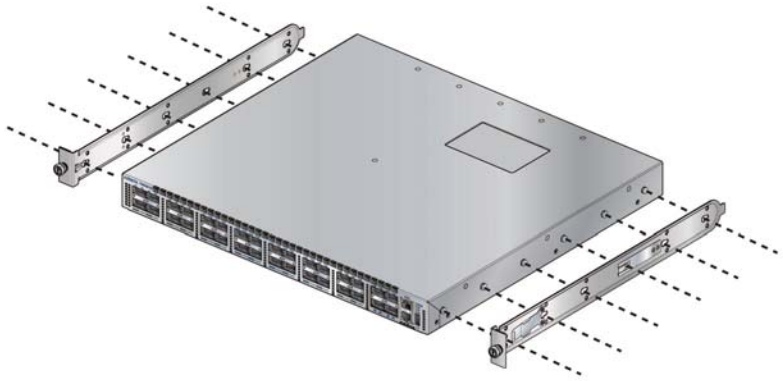
Figure 3-6: Improper Bracket Mount Example for Four-Post Rack Mount



3.2.1 Attaching Mounting Brackets to the Chassis

Figure 3-7 displays the front bracket alignment for mounting the switch into a four-post rack.

Figure 3-7: Attaching the Mounting Brackets to the Switch Chassis



Attaching the brackets: Front mount

This procedure attaches mounting brackets to the switch chassis as depicted by Figure 3-7.

Step 1 Align the mounting brackets with the attachment pins to obtain the desired mounting position.

Step 2 Place the bracket flush on the chassis with attachment pins protruding through key-openings.

Step 3 Slide the bracket toward the front flange until the bracket clip locks with an audible click.

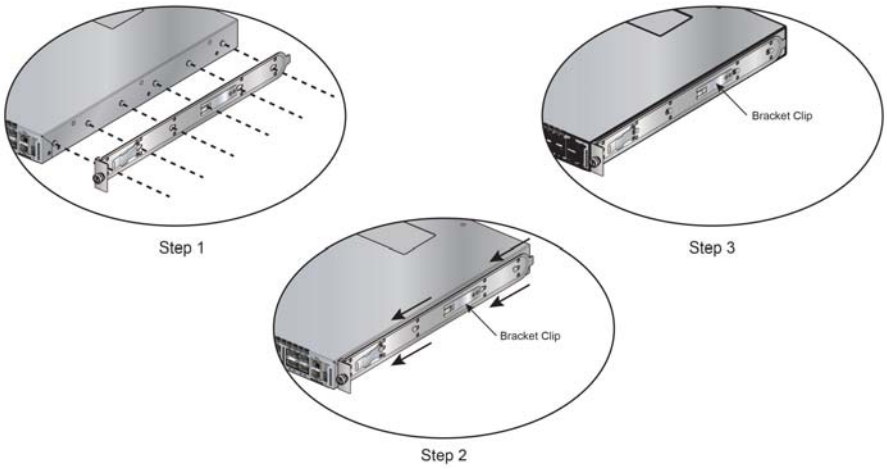
To remove the mounting bracket from the chassis, lift the front edge of the mounting bracket clip with a flathead screwdriver and slide the bracket away from the front flange (opposite from the installation direction).

3.2.2 Assembling the Rails onto the Equipment Rack

Rail-rods and rail-slides assemble into two identical rails. Each rail connects a front post to a rear post. When the rails are installed, the switch slides on the rails into the rack. Each bracket includes a screw that attaches the switch to the rail.

Each end of an assembled rail contains two rack plugs (Figure 3-8). The rails are installed into a rack by inserting the plugs into rack slots. When installing rails into posts with threaded or rounded holes, remove all plugs located on both sides of the assembled rails, then install the rails with bolts that fit the rack.

Figure 3-8: Attaching the Mounting Brackets to the Switch Chassis

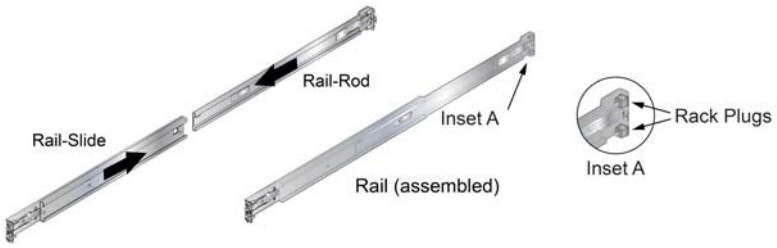


This procedure attaches the rails to a four post rack:

Step 1 Slide a rail-rod into a rail-slide (Figure 3-9) until the rail clip makes an audible click.

The rail clip prevents the extension of the rail beyond the maximum supported distance between the front and rear rack posts.

Figure 3-9: Assembling the Rails



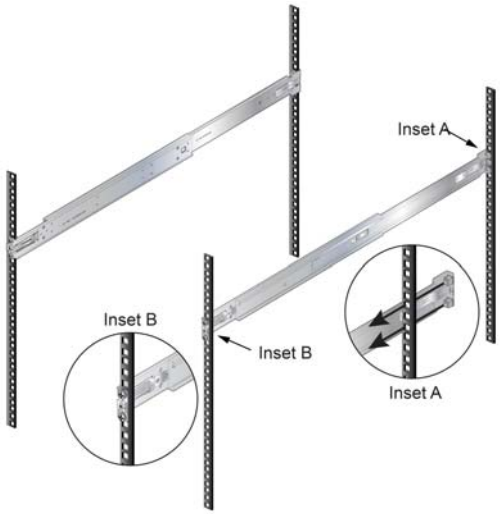
Step 2 Attach rail to the right rear rack post by inserting rod-end rack plugs into post slots (Figure 3-10, Inset A). The slide assembly must be inside the right posts, relative to the left rack posts.

If the rack plugs were previously removed, use bolts to attach the rail to the rack.

Step 3 Attach the slide end of the rail to the front post by extending the rail end past the post, then contracting the rail while guiding the rack plugs into the post (Figure 3-10, Inset B).

Step 4 Repeat step 1 through step 3 for the left posts. Ensure the rails are on the same horizontal level.

Figure 3-10: Attaching the Rails

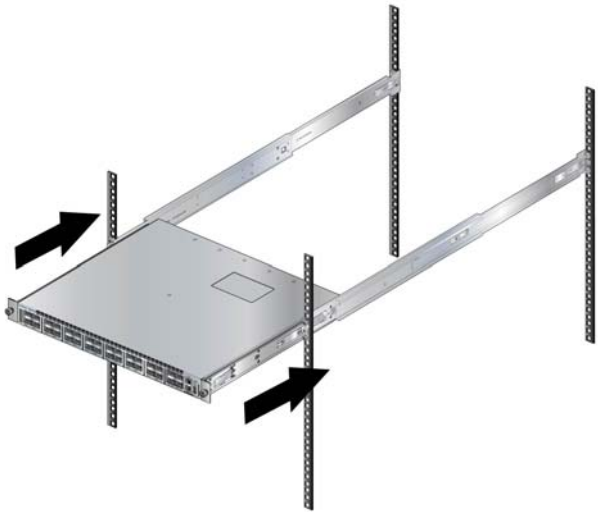


3.2.3 Attaching the Switch to the Rack

After the rails are installed, the switch slides on the rails into the rack. Each bracket includes a thumb screw that attaches the switch to the rail.

Step 1 Lift the switch into the rack and insert the mounting brackets into the slide rails.

Figure 3-11: Inserting the Switch onto the Rails



Step 2 Slide the switch on the rails, toward the rear posts, until the mounting bracket flanges are flush with the rail flanges attached to the rack posts.

Step 3 Attach the bracket flanges to the rack post using the quick-release thumb screws supplied with the brackets (Figure 3-12).

Figure 3-12: Attaching the Switch to the Rack Posts

After completing the four-post rack mount, proceed to Chapter 4.