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-7050SX-128 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-7050SX-128.

- 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 includes 2 three-hole mounting brackets.

Each chassis side has attachment pins that align with bracket holes; the number of pins (six or seven) varies by switch model. Pin orientation is symmetric and equidistant, supporting bracket placement where the flange is either flush with the front and rear panels, or not flush with the panels. Each bracket hole includes a key-opening for placing the bracket flush with the chassis and then locking it into place.

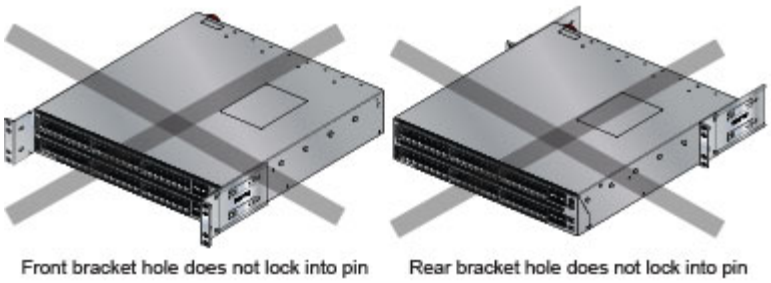
Important! Attachment pins must engage all three upper bracket holes.

Goupilles de fixation doivent s'engager tous les trois trous de la bride supérieure..

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

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

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



3.1.1 Attaching Mounting Brackets to the Chassis

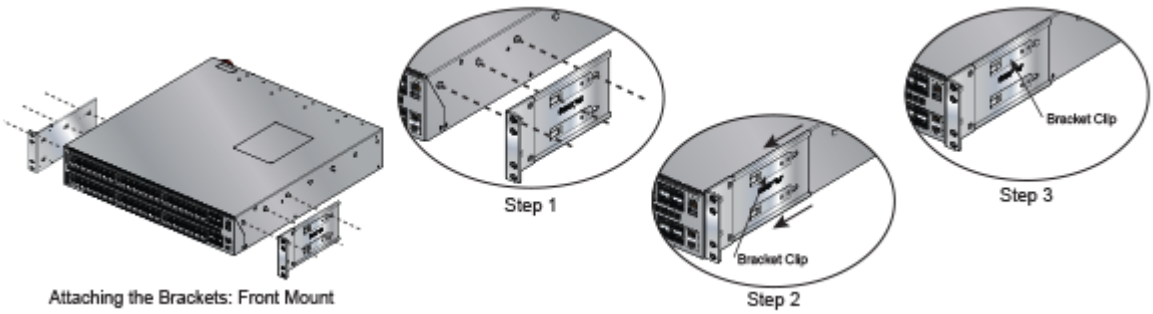
This procedure attaches mounting brackets to the switch chassis (Figure 3-3).

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.

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 on page 11).

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

Figure 3-4: Inserting the Switch into the Rack

Step 2 Select mounting screws that fit your equipment rack.

Step 3 Attach the bracket flanges to the rack posts.

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 two bracket-rail assemblies. The following four-post mounting parts are extracted from each assembly:

- Six-hole mounting bracket
- Rail

Each chassis side has attachment pins that align with bracket holes; the number of pins (six or seven) varies by switch model. Pin orientation is symmetric and equidistant, supporting bracket placement where the flange is either flush with the front and rear panels, or not flush with the panels. 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 six bracket holes.

Goupilles de fixation doivent s'engager tous les trous de support six.

Figure 3-5 on page 11 displays proper bracket mount configuration examples. Figure 3-6 on page 12 displays an improper bracket mount configuration examples.

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

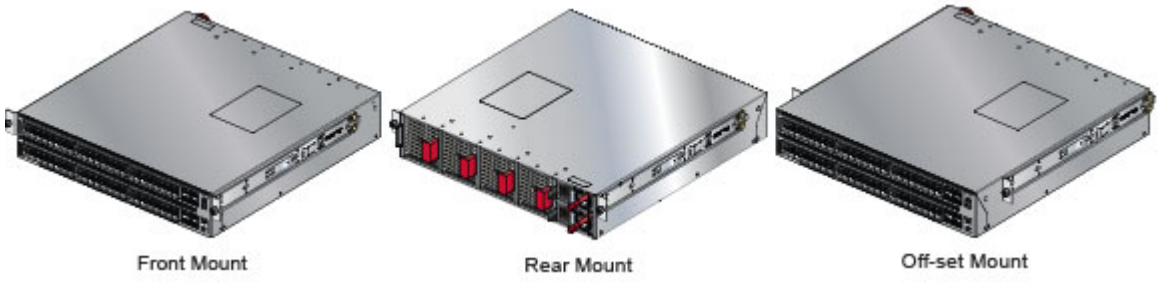
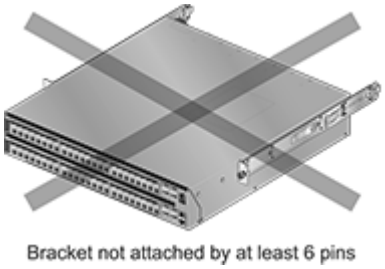


Figure 3-6: Improper Bracket Mount Example for Four-Post Rack Mount

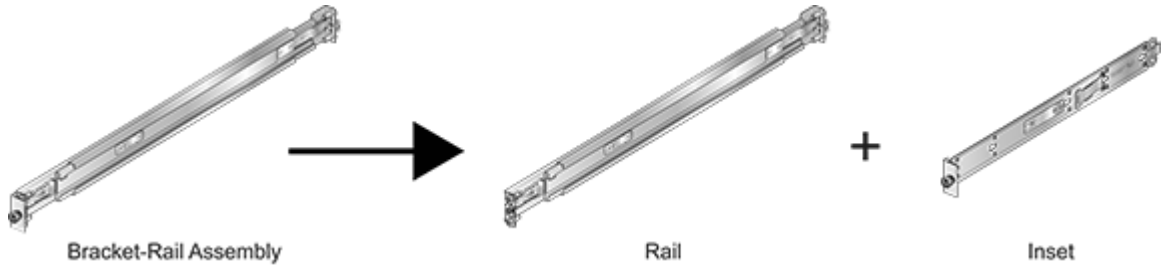


Off-set mount is always an improper bracket mount configuration on switches that have six attachment pins on each side.

3.2.1 Extracting the Brackets and the Rails

Figure 3-7 displays a bracket-rail assembly and the component pieces (bracket and rail) that are extracted from the assembly. Each assembly must be separated into its component pieces before mounting the switch into a four-post rack. The two assemblies supplied with the switch are identical.

Figure 3-7: Bracket-Rail Assembly – Before and After Extraction

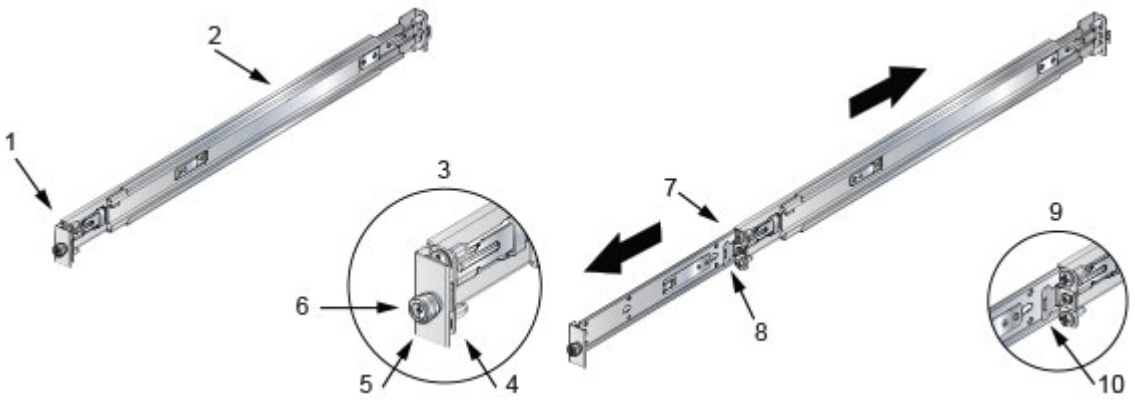


This procedure separates a bracket-rail assembly into its component pieces.

Step 1 Grip the rail with your right hand, as shown in Figure 3-8-left. Pull the bracket flange away from the rail flange with your left hand until the bracket clip catches on the rail (Figure 3-8-Right).

If the bracket flange resists initially, verify the thumb screw on the bracket flange is not attached to the rail flange.

Figure 3-8: Extracting the Bracket-Rail Assembly



1	Inset A	5	Bracket flange	9	Inset B (detail)
2	Rail (Grip here)	6	Thumb screw	10	Locking clip
3	Inset A (detail)	7	Inset B		
4	Rail flange	8	Locking clip		

Step 2 While pressing the locking clip on the bracket (Figure 3-8-Right), resume pulling the bracket from the rail until the separation is complete.

Step 3 Repeat the procedure for the other assembly.

3.2.2 Attaching Mounting Brackets to the Chassis

Figure 3-9 displays the front bracket alignment for mounting the switch into a four-post rack.

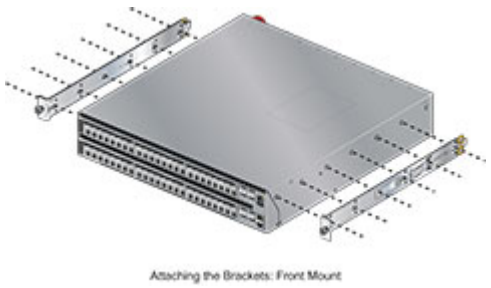
This procedure attaches mounting brackets to the switch chassis as depicted by Figure 3-10 on page 14.

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.

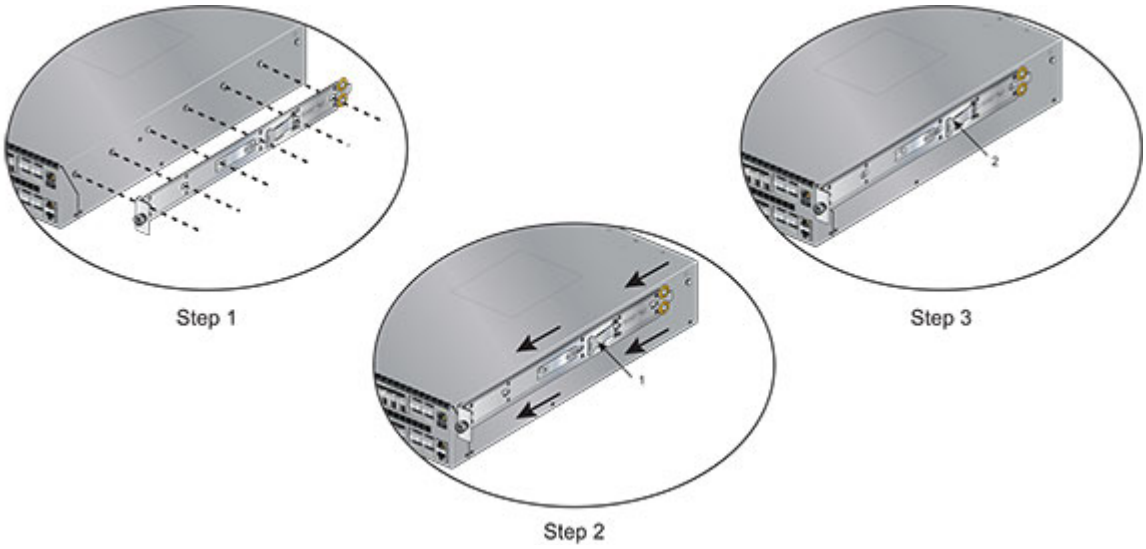
Step 3 Slide the bracket toward the front flange until the bracket clip locks with an audible click.

Figure 3-9: Front Bracket Alignment



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).

Figure 3-10: Attaching the Mounting Brackets to the Switch Chassis



1 Bracket Clip
2 Bracket Clip

3.2.3 Expanding the Rails

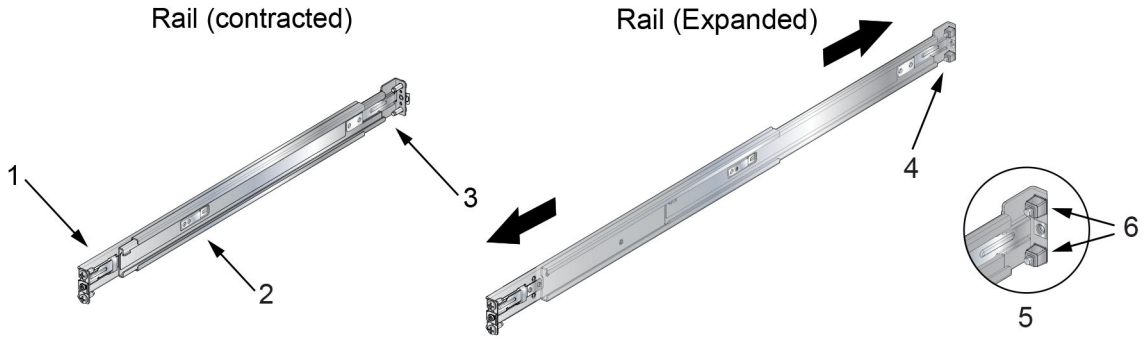
The rail is a two-piece mechanism. The rail length is adjusted by sliding the rail-rod inside the rail-slide. The rail clip prevent extension of the rail beyond the maximum supported distance between front and rear rack posts. When the rail is contracted, the rail clip is closest to the slide end.

The rail is initially contracted and must be expanded to attach onto the rack. This procedure expands the rails from their contracted state:

Step 1 Grip the slide end with your left hand and the rod end with your right hand (Figure 3-11-left).

Step 2 Pull the ends apart until the rail-clip makes an audible click (Figure 3-11-right).

Figure 3-11: Expanding the Rails



1 Rail-slide end (grip with left hand)	3 Rail-rod end (grip with right hand)	5 Inset A (detail)
2 Rail clip	4 Inset A	6 Rack plugs

3.2.4 Assembling the Rails onto the Equipment Rack

A rail connects a front post to a rear post. Each end has two rack plugs (Figure 3-11-Right, Inset A). Rails are installed into a rack by inserting the plugs into rack slots. To install rails into posts with threaded or rounded holes, remove all plugs on both sides of the rails, then install the rails with bolts that fit the rack. This procedure attaches the rails to a four-post rack:

Step 1 Attach rail to the right rear rack post by inserting rod-end rack plugs into post slots (Figure 3-12-Right, 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 2 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 3-12, Inset B).

Step 3 Repeat step 1 through step 2 for the left posts. Ensure the rails are on the same horizontal level.

Figure 3-12: Attaching the Rails

1 Inset A
2 Inset A (detail)
3 Inset B
4 Inset B (detail)

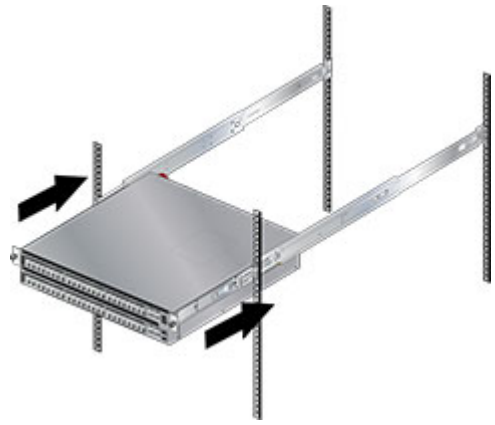
3.2.5 Attaching the Switch to the Rack

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.

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.

Figure 3-13: Inserting the Switch onto the Rails



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

Figure 3-14: Attaching the Switch to the Rack Posts

1 Inset A
2 Inset A (detail)

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