

INSTALLATION INSTRUCTIONS

SWING RACK

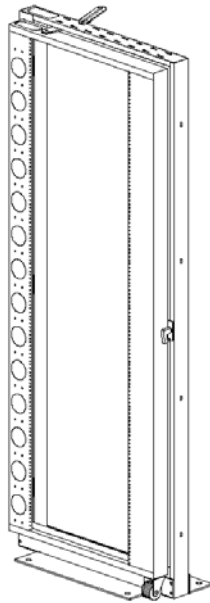


For your safety, upon receipt of your Swing Rack, read this instruction sheet carefully before starting any assembly or installation of equipment.



CAUTION:

This Swing Rack system must be anchored securely to the floor in order to minimize the potential of accidentally tipping the unit during equipment installation. Anchoring and selection of hardware should be performed by qualified personnel only. Anchoring hardware should be a minimum of 5/8 diameter.



Instructions for the following Belden Racks:

XSW-8419

Part A – Stationary Frame

Part B – Swing Frame

BELDEN
SENDING ALL THE RIGHT SIGNALS



This product is UL listed and intended to house UL Listed ITE, Audio or Video equipment and must be installed by a qualified professional. This unit is not intended for use as a fire enclosure.

Maximum Load Capacity:

500 lbs*

*Load evenly distributed

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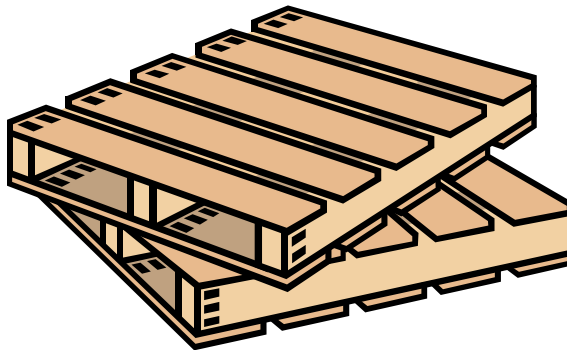


Before Un-packaging your Swing Rack read below.

This Swing Rack is shipped unassembled in two packages (Part A & Part B), banded and shrunk wrapped to a skid. An assembly hardware package is provided in order to assemble the unit. In addition, a number of screws are provided for mounting equipment.

Please make sure upon receipt of delivery that your packaging is in tact. Inspect the packaging for any noticeable damage. If there is damage, please notify the freight carrier immediately to file a damaged freight claim.

Once you have inspected the packaging for any damage; carefully remove the wrapping and banding from the skid and the packaging from around your rack components and check all items received against the Components Part List and the Assembly Hardware List on Page 4 (Part A) and Page 8 (Part B) of this Instruction Manual.



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Part A – Stationary Frame

Components Parts List – Stationary Frame

Before starting assembly verify that you received all the components listed below.

| Qty | Part Number | Description |
|-----|-------------|------------------|
| 1 | 433-2619 | Top Channel |
| 1 | 433-2621 | Front Foot Angle |
| 1 | 433-2620 | Rear Foot Angle |
| 1 | 433-2644 | Post, Hinge Side |
| 1 | 433-2622 | Post, Latch Side |
| 1 | 433-2628 | Stop Channel |

Assembly Hardware List – Stationary Frame

| Qty | Part Number | Description |
|-----|-------------|--------------------------|
| 4 | 91122 | 8-32 PHP Sems Screw |
| 8 | 92094 | 3/8-16 x 1" Whiz Bolt |
| 8 | 92053 | 1/4 -20 x 1/2" Whiz Bolt |
| 2 | 94088 | 1/4-20 Kep nut |

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Part A – Stationary Frame

You are now ready to Assemble Part A

The following tools are required for assembly of this rack:

- ❑ 9/16" Wrench
- ❑ Phillips Screwdriver
- ❑ Square
- ❑ 3/8" Wrench

Frame Assembly:

1. The Swing Rack can be assembled to allow the swing frame to open either right or left. Before starting assembly determine which way the rack will swing. Position the hinge side post (433-2644) on the floor (of the two posts this is the part with the longer flanges), place this post on the side that the hinge is desired and place the latch side post (433-2622) on the opposite side. NOTE: The front and rear flanges have the same hole pattern, however, the post must be oriented for the top and bottom. Identify the bottom as the edge with two 3/8-16 captive fasteners in each flange.
2. Place the front foot angle (433-2621) (this is the angle with the notches on one flange), with the un-notched leg on flanges of the vertical posts at the bottom with the notched flanges facing away from the floor. Align the holes in the foot with the threaded fasteners in the post and install four 3/8 – 16 x 1" whiz bolts. Do not tighten bolts at this time.
3. Install stop channel (433-2628) Figure 2, between the flanges of the top channel using four 8-32 x 3/8 screws. NOTE: The stud in the center of the stop channel should face down.
4. Insert top channel (433-2619) between flanges of the vertical posts at the top. NOTE: the cutout in the top channel should be on the same side as the hinge post. Align the holes in the post with the top channel and install four 1/4 - 20 x 1/2" whiz bolts. Do not tighten at this time.
5. Using the edge of the leg of the bottom angle foot that is attached to the post, square the angle foot to each post and tighten the hardware to a minimum of 25 in/lbs. Square the post to the top channel and tighten the hardware.

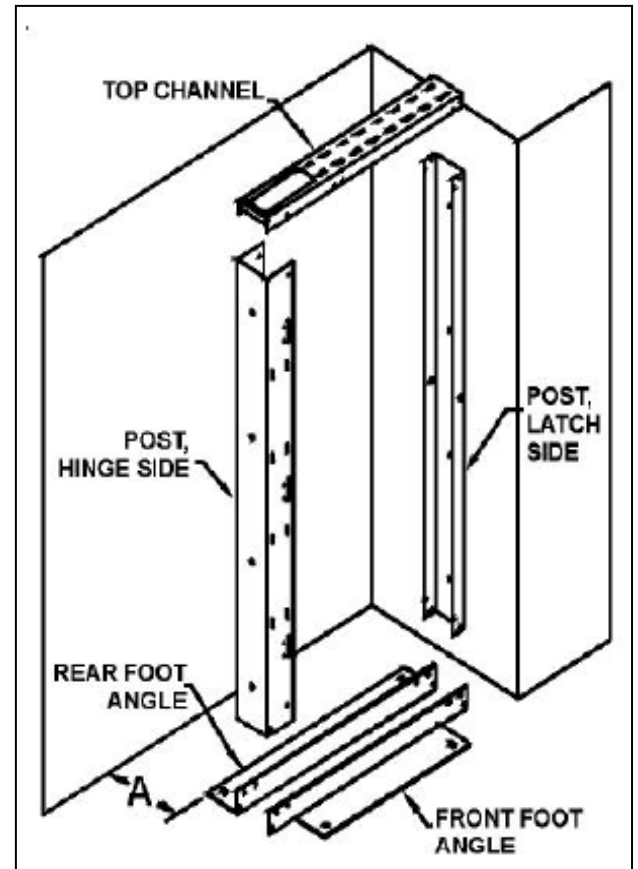


Figure 1

Flip the above assembly and install the rear angle foot (433-2620) to the angle posts with the same hardware in step 2. Before tightening the hardware, make sure the bottom flange of the rear post is in the same plane of the bottom flange of the front foot

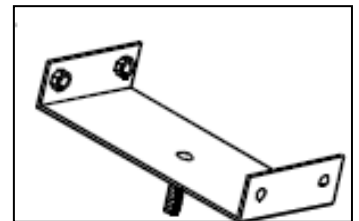


Figure 2

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Part A – Stationary Frame

NOTE: You have now assembled The Stationary Frame, Part A of your Swing Rack. Proceed to anchor the rack to the floor.



Anchoring Hardware should be a minimum of 5/8" diameter

Mounting Hole Pattern

IMPORTANT NOTE: This Swing rack system should be anchored securely to the floor. Figure 3 below shows the bottom frame angle mounting pattern and the placement of the 3/4" holes to facilitate anchoring. Due to building code and substrate variations we do not supply the anchoring hardware. Qualified personnel knowledgeable of local code should **ONLY** perform anchoring of this rack.

To utilize the maximum equipment depth of the rack design. The hole pattern in Figure 3 must be a minimum of 8.25" from the wall.

NOTE: It is possible to mount the rear foot angle directly against the wall if none of the rack-mount equipment to be installed is over 13 inches in depth.

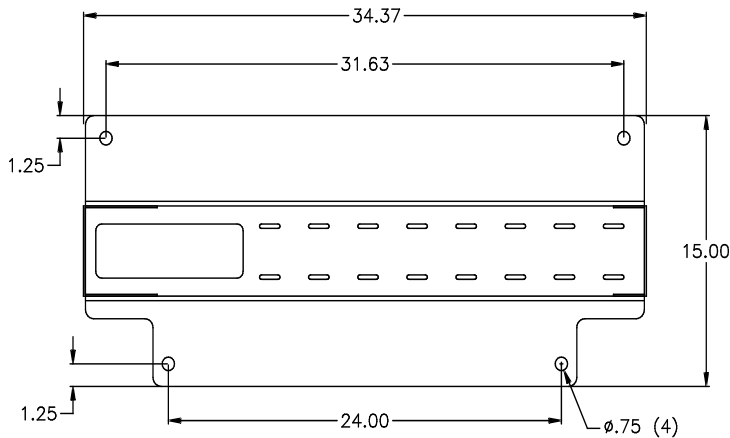


Figure 3

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Part A – Stationary Frame

Grounding Stud

Two, 1/4-20 X 3/4" long Grounding Studs are provided centered inside the hinge side channels, top and bottom as shown in Figure 4 below. A 1/4-20 hex nut with a captive external tooth lock washer (Part Number 94088) is provided for attachment of the ground lug (not supplied). The hex nut assembly is used to secure the ground lug in place.

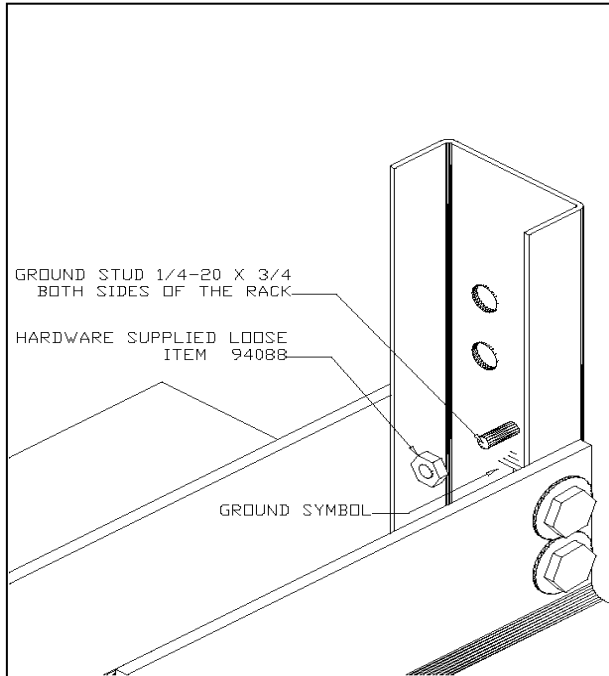


Figure 4



The Stationary Frame (Part A) must be securely anchored to the floor before you can continue to the assembly of the Swing Frame (Part B).

NOTE: After securely anchoring the Stationary Frame, please continue on in this Instruction Manual for assembly instructions on the Swing Frame Part B.

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Part B – Swing Frame

Before starting assembly verify that you received all of the components listed below.

Components Parts List – Swing Frame

| Qty | Part Number | Description |
|-----|-------------|-------------------|
| 3 | 433-0525 | Hinge |
| 1 | 433-2625 | Frame Top |
| 1 | 433-2626 | Frame Bottom |
| 1 | 433-2623 | Frame, Hinge side |
| 1 | 433-2624 | Frame, Latch side |
| 1 | 433-2629 | Stop Bar |
| 1 | 433-2692 | Latch Plate |

Assembly Hardware List – Swing Frame

| Qty | Part Number | Description |
|-----|-------------|-------------------------|
| 4 | 20848 | Nylon Washer |
| 1 | 20283 | Caster |
| 1 | 21246 | Lock Knob, 1/4-20 |
| 1 | 21263 | Lever Latch |
| 1 | 91254 | Shoulder Screw |
| 16 | 92053 | 1/4-20 x 1/2" Whiz Bolt |
| 10 | 94088 | Kep Nut, 1/4-20 |
| 2 | 91051 | 10-32 x 3/8 PPH |
| 46" | 20264 | Edge Guard |
| 2 | 20442 | Rubber Bumper |
| 14 | 24103 | 3" Caplugs |
| 1 | XBS-11-0001 | Bonding Strap Kit |
| 2 | 94088 | For Ground Stud |

Mounting Hardware

| Qty | Part Number | Description |
|-----|-------------|---------------------------|
| 80 | 91263 | 10-32 x 1/2" MS |
| 80 | 93076 | #10 External Tooth Washer |

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Part B – Swing Frame

You are now ready to Assemble Part B

The following tools are required for assembly of this rack:

- ❑ 7/16" Wrench
- ❑ Phillips Screwdriver
- ❑ Square
- ❑ 3/8" Wrench

Frame Assembly:

1. Position hinge side vertical channel (433-2623) on the floor so that this piece is on the same side as the hinge side vertical channel of the Stationary Frame assembled in Part A. Position the latch side vertical channel (433-2624) on the opposite side of (433-2623). Position the frame top (433-2625) over the flanges of the two vertical channels. NOTE: The frame top is determined by whether the frame is hinged left or right swing. Verify the cutout in the frame top is on the same side as the hinge side channel (433-2623). Loosely install four each of the 1/4-20 x 1/2" whiz bolts in each vertical channel. See Figure 5.
2. Install the caster into the weld nut from the side opposite the flanges. Position the frame bottom (433-2626) over the flanges of the two vertical channels with the cutout on the same side as the hinge side channel. Loosely install four each of the 1/4-20 x 1/2" whiz bolts in each vertical channel. See Figure 5.
3. Using a square, adjust each vertical channel to the bottom frame channel and tighten the two 1/4-20 x 1/2" whiz bolts. Repeat the same operation at the top. Flip the frame and tighten the remaining (8) 1/4-20 x 1/2" whiz bolts.
4. Attach the latch plate (433-2692) on the latch side channel with (2) 10-32 x 3/8 PPH screws.
5. Attach the three hinges (433-0525) to the hinge side channel of the above assembly by inserting the studs in the hinge from the outside of the channel and installing (6) 1/4-20 kep nuts. Tighten all the hinge nuts.
6. Stand the above assembly next to the stationary assembly that has already been bolted to the floor. NOTE: The swing frame mounts on the side of the stationary frame with the notched mounting foot. Install the studs on the hinges into the stationary frame and tighten with (6) 1/4-20 kep nuts.
7. Attach the stop bar (433-2629) to the top of the swing frame by first installing a nylon washer onto the shoulder screw supplied. Insert the screw and washer through the hole in the stop bar, attach a nylon washer onto this assembly and then install the assembly to the top of the swing frame.

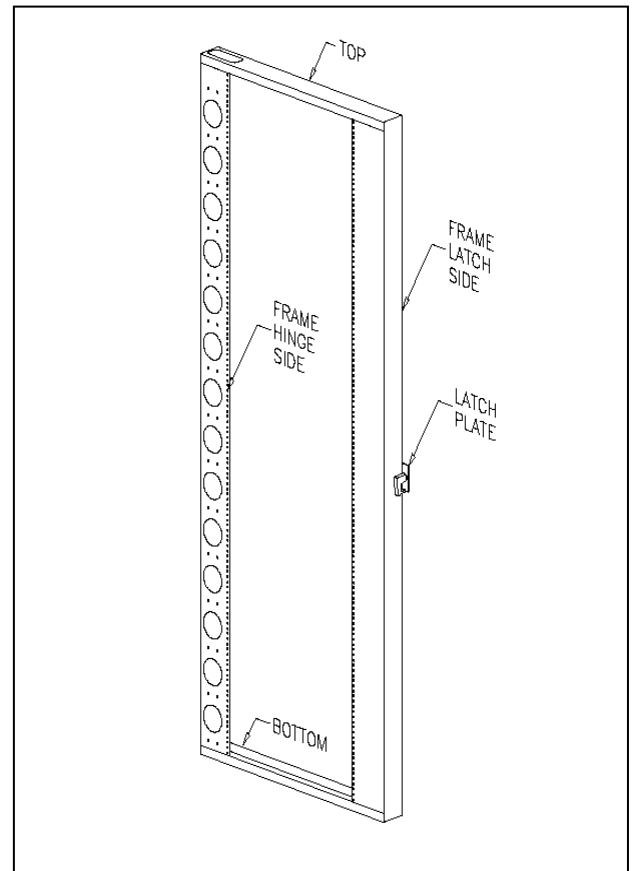


Figure 5

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Part B – Swing Frame

8. Press the stop bar down slightly so that the slot in the stop bar clears the stud in the stop channel on the stationary frame. After the stud is in the slot then attach the 1/4-20 knob onto the stud.
CAUTION: Only tighten knob when the swing frame is open and you wish to lock the frame in open position.
9. Assemble the handle latch as shown in Figure 6 to the latch side of the swing frame.
10. Attach one rubber bumper to the top and bottom of the inside surface of the swing frame on the latch channel.
11. Edge guard has been supplied for protection of sharp edges on the cutouts of both frames where cable is routed.
12. Install the 3" Caplugs in the round holes on the hinge side of the swing frame. Cut a + shaped pattern on the back side of the plug to pass cable through. The plug will protect the cable from sharp edges.

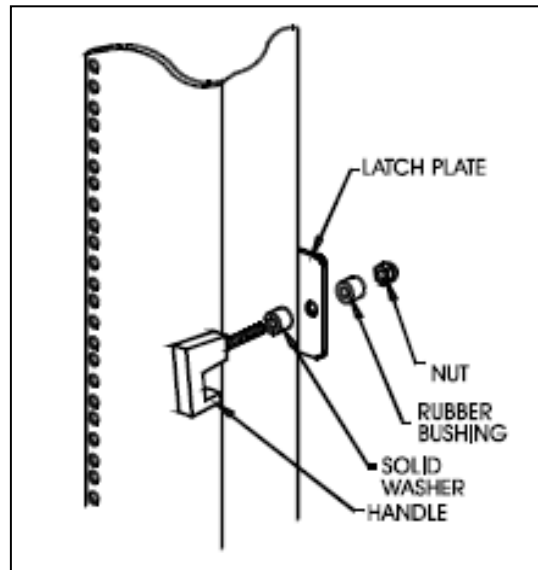


Figure 6



CAUTION:

The Swing Frame being attached to the Stationary Frame with the three hinges does not guarantee a continuous ground between both members. It is required to install a bonding kit XBS-11-0001 to securely ground the swing frame to the stationary frame.

The bonding strap will attach on the top inside member of the Swing Frame on the hinge side and the top inside flange of the top member of the Stationary Frame using a 10-32 Stud. Connect the bonding strap by placing a nut #94028 on the 10-32 Stud, then place the strap lug on the stud, then place another #94028 nut as shown in Figure 7.

Note: You have now completely assembled the Swing Rack Swing Frame (Part B) to the Stationary Frame (Part A). The rack is now ready for equipment installation.

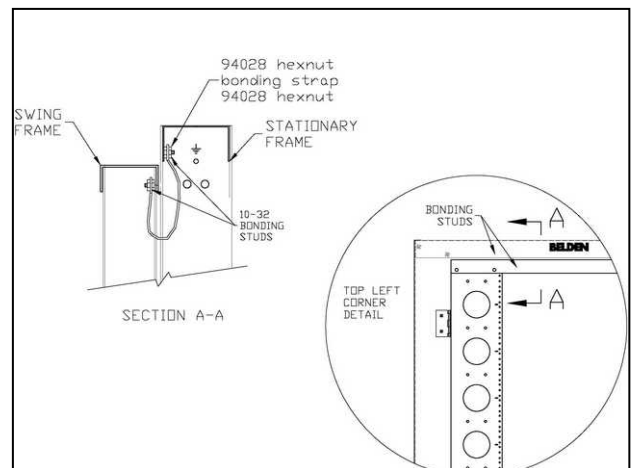


Figure 7

Equipment Installation

A bag of 10-32 x 1/2" Mounting Screws along with External Tooth Washers (Part Number 93076) are supplied to be used in conjunction with each other to mount equipment to the frame.