

Installation Instructions

ADJUSTABLE RAIL SERVERRACK AND QUADRARACK™

Safety Information



WARNING: To reduce the risk of personal injury or damage to equipment, the rack must be bolted to the floor. Two or more racks can be bayed to enhance stability, but each rack must be anchored to the floor.



WARNING: Improper use of this product may lead to serious injury or death. Read and understand all instructions for proper installation and use of this product.



WARNING: Be sure to use sufficient personnel to safely assemble and install the rack.



WARNING: Do not load equipment into the rack prior to it being bolted to the floor, as it could tip over.



WARNING: For protection of the equipment and personnel, ground each rack individually to a busbar or signal reference grid.

Always load heavier equipment, such as a UPS, at the bottom of the rack. Extend only one server at a time. Unload equipment from the rack before moving it.

Intended Use

Install this rack in Restricted Access Locations only, such as a data center. Use indoors only, in environmentally controlled areas; do not use outdoors, in harsh environments or in air-handling spaces. Use this rack for computer equipment, including servers and peripherals. Allow only qualified service personnel to use this rack.

Tools Required

10mm open end wrench
13mm socket wrench

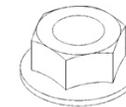
Pliers (to install cage nuts in Adjustable ServerRack)

Included Hardware

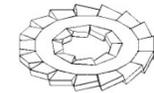
18 each
8 mm x
16 mm Bolt



26 each
8mm
Flange Nut



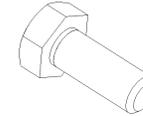
10 each
8mm
Lock Washer



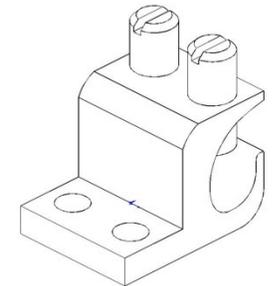
2 each
6mm Lock Nut



2 each
8 mm x
20 mm bolt



1 each
Grounding Block



1 tube Antioxidant Compound

50 each 12-24 x 5/8 Screws, For QuadraRack only

50 each 12-24 Cage Nuts, For ServerRack only



CHATSWORTH PRODUCTS, INC.

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For international phone numbers, see our website or contact CPI Tech Support.

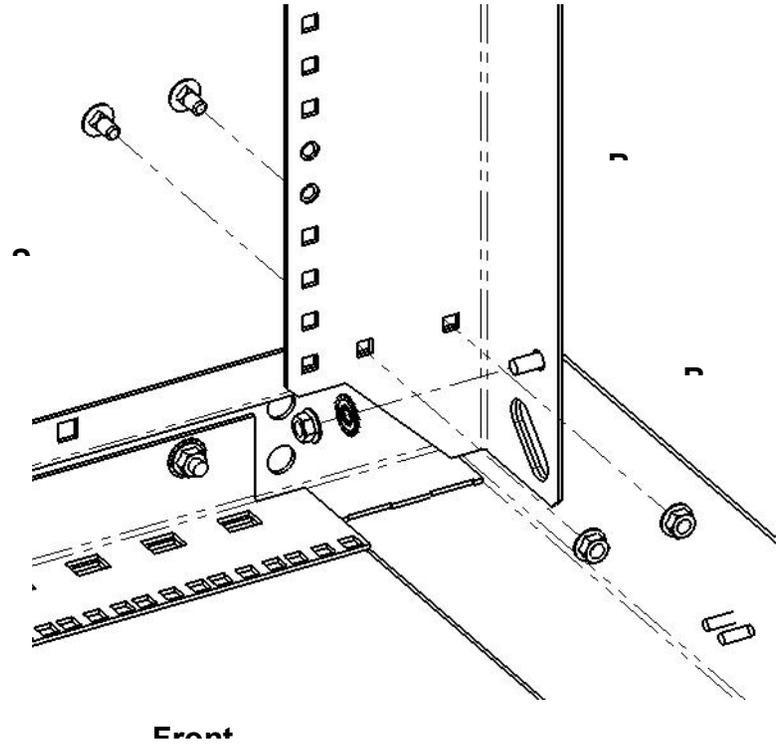
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Assembly Sequence

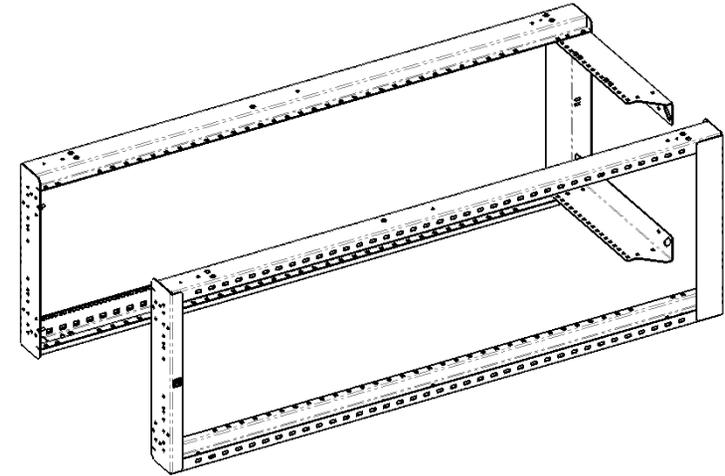
1. Lay one frame down on the floor with the rear flange facing up.
2. Install the two base brackets to the frame. Use an 8 mm star lock washer and 8 mm nut on each stud (located on the bottom of the frame). Important: the star washer must be used to ensure electrical bonding throughout the entire rack frame. Install two 8 mm x 16 mm bolts and 8 mm nuts from the outside of the frame through the rear frame flange. Do not fully tighten the nuts, leave them finger tight only.



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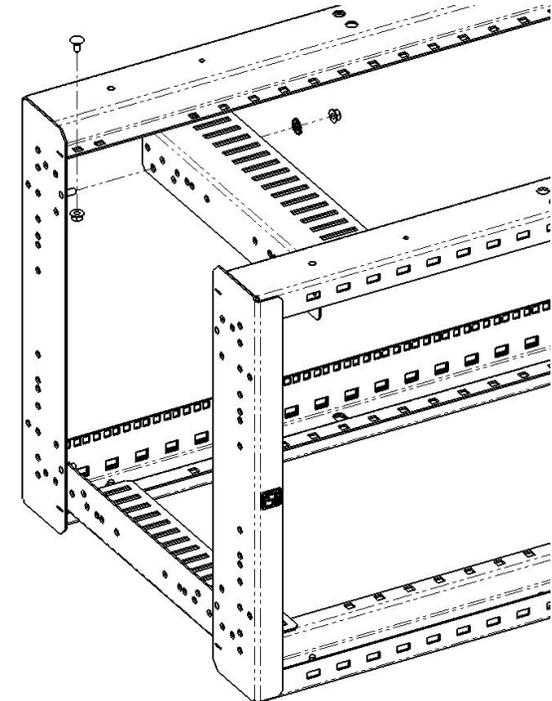
3. Turn the assembly onto its side. Attach the remaining frame to the base angles (see step 2). Leave hardware finger tight.



4. Attach the two top angles in the same way as the base angles. Use an 8 mm star lock washer and 8 mm nut on each stud (located on the top of the frame). Important: the star washer must be used to ensure electrical bonding throughout the entire rack frame. Only one 8 mm x 16 mm bolt and 8 mm nut are used at each end of the top angle to attach the angle to the side of the frame through the rear frame flange.

5. Tighten all nuts at the base and top. The rack can now be stood up on its base.

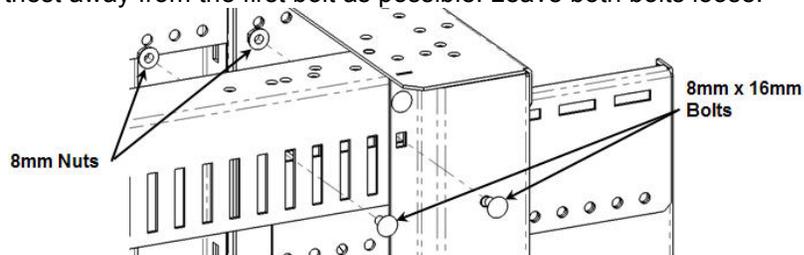
Note: If the cable waterfall will be mounted on the rack, it may be easier to mount it while the rack is lying down. See page 6 for mounting instructions.



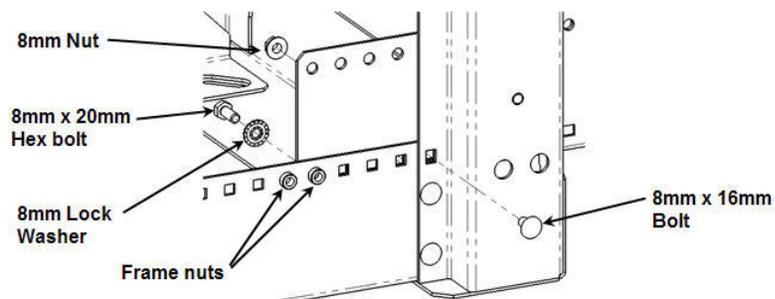
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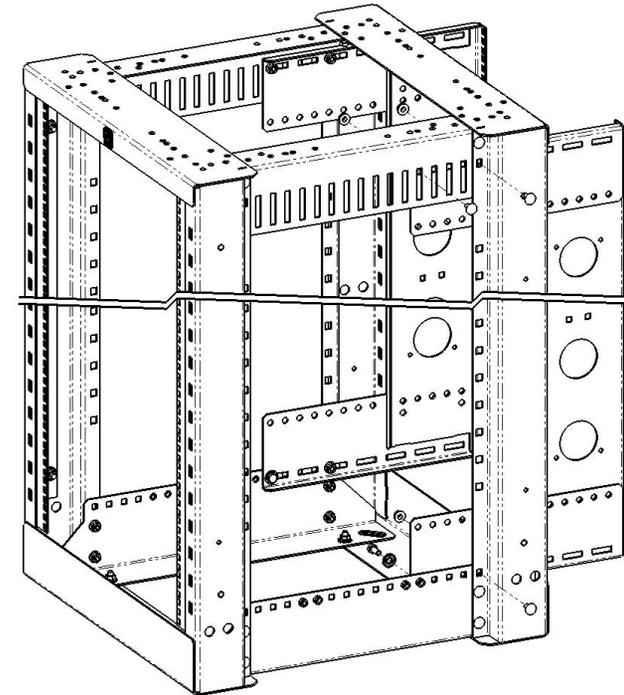
6. With the frame upright, position one of the rear rails at the desired depth. Install an 8 mm x 16 mm bolt and 8 mm nut through the top angle; use the slot located at the end of the mounting rail support. Install another bolt and nut at a slot furthest away from the first bolt as possible. Leave both bolts loose.



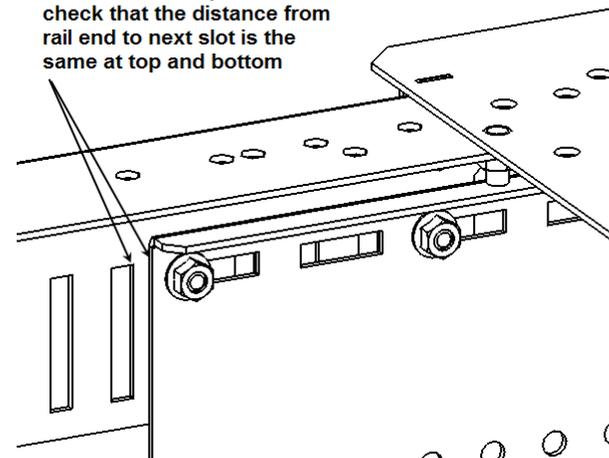
7. Install an 8 mm x 20 mm hex bolt and 8 mm star lock washer through the lower rail support and into one of the frame nuts on the lower frame bracket; this bolt should be in vertical alignment with the first upper bolt. **Important: the star washer must be used to ensure electrical bonding of the rail to the frame.** Install an 8 mm x 16 mm bolt and 8 mm nut as far as possible from the first bolt; this bolt should be in vertical alignment with the second upper bolt



Set rail depth to final position and tighten all four bolts. Note: If rail is positioned with bolts at the end of the horizontal slots the rail depth will be set at depths of 25mm increments such as 400mm, 425mm, etc.



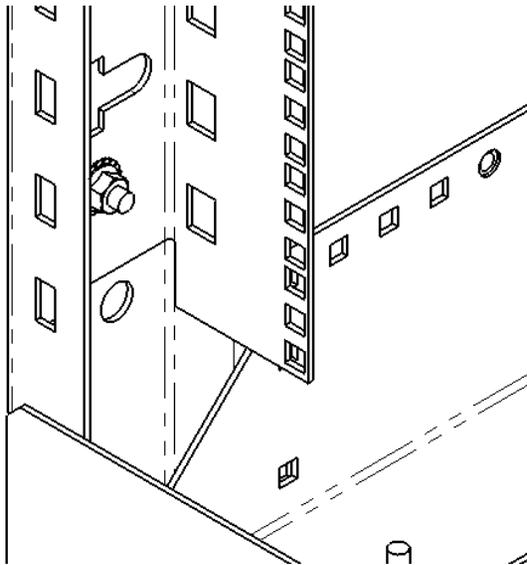
To ensure rail is plumb, check that the distance from rail end to next slot is the same at top and bottom



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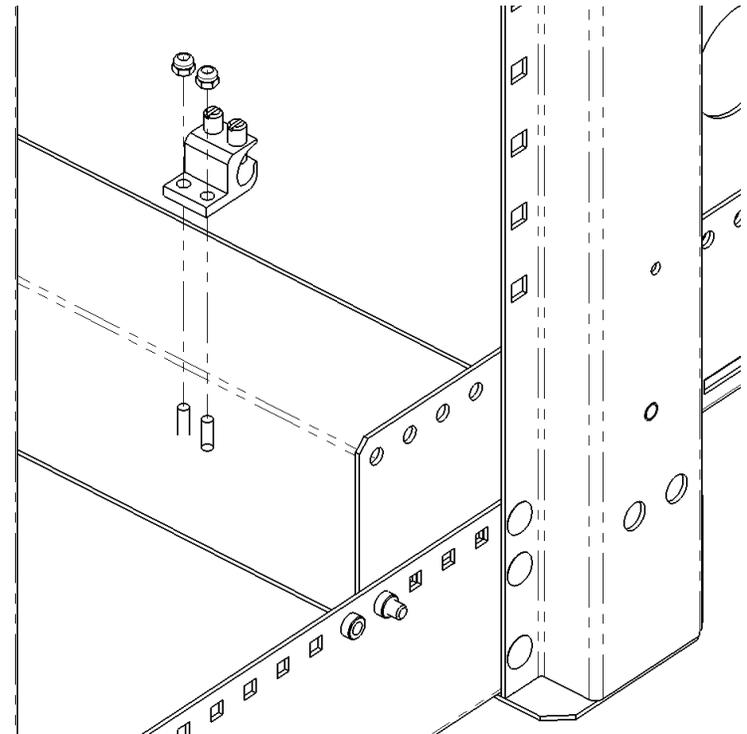
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8. The rack is shipped with the front rail installed flush with the front frame flange and the RMU numbers starting at the bottom. The rails can be mounted facing towards the rear for recessed (75mm) equipment mounting. This is recommended when side exhaust switches are mounted; the side frame members will not interfere with the airflow.



If you want the RMU numbering to start at the top: remove the rails, turn them over and mount on the opposite side of the frame. Important: the star washers must be used to ensure electrical bonding of the rail to the frame.

9. Optional grounding block mounting: The grounding block can be mounted to the base of either the front or rear frame. Remove the paint masking material from around the two mounting studs. Apply supplied Antioxidant Joint Compound to exposed steel area. Mount the block to the studs with two 6 mm lock nuts

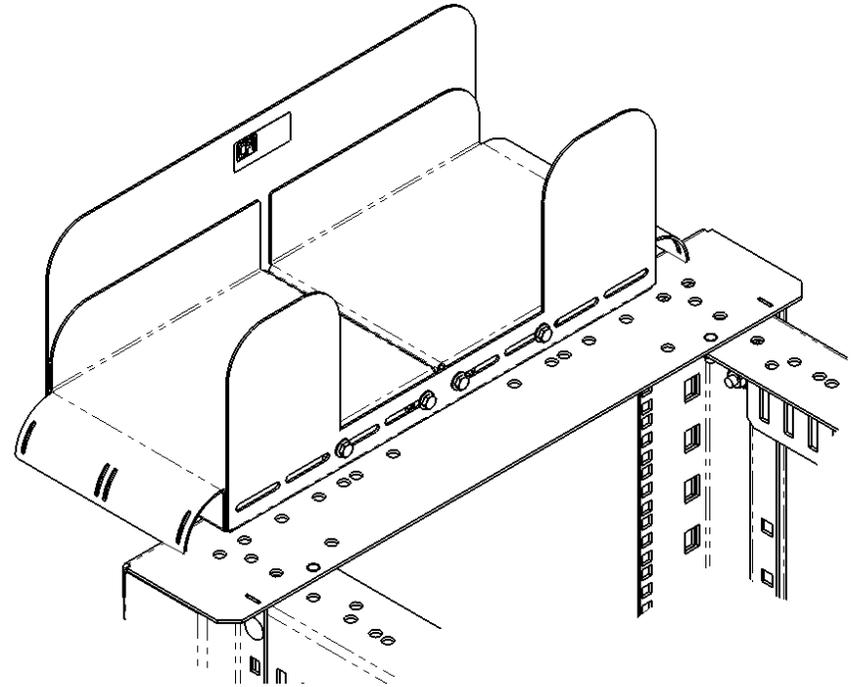
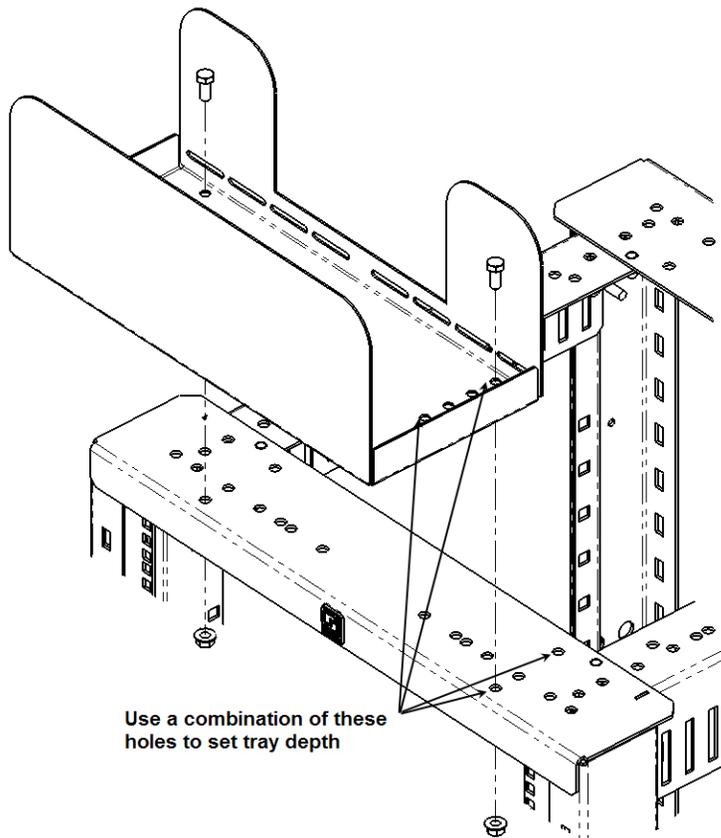


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10. Cable Waterfall Mounting:

- a. Remove the 4 screws that attach the radius brackets to the tray and remove brackets.
- b. Position the tray by aligning one of the 4 holes in the tray with one of the 3 holes in the frame top angle; this will determine the depth (overhang) of the cable waterfall. Attach with two 8 mm x 20 mm hex bolt and 8 mm nut.
- c. Position the radius brackets at the desired width and attach with the 4 screws.



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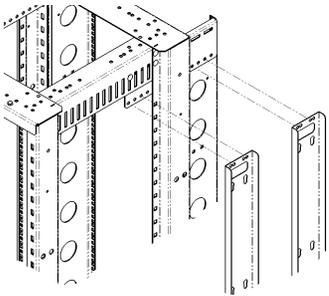
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Vertical Power Strip Mounting

Optional Dual Vertical Power Strip Manager

This bracket allows mounting of two power strips on the side of the rack. It mounts directly to the rear mounting rails using the hardware provided with the brackets. These can be used on 7' and 8' racks only.

Use part number 34595-C02 for 7' racks
Use part number 34595-C08 for 8' racks



Optional Cable Management Fingers

These mount to rectangular slots on the front face of the frames.

Use part number 15286-001 for 6' racks
Use part number 15286-003 for 7' racks
Use part number 15286-015 for 8' racks

