

## CHATSWORTH PRODUCTS, INC., SELF-SUPPORT RACK ASSEMBLY AND INSTALLATION INSTRUCTIONS

This guide provides information on how to unpack, inspect, assemble, install, and maintain Chatsworth Products, Inc.'s Self-Support Racks. This is supplied to our customers for informational purposes only, CPI cannot be responsible for improper installation techniques or misuse of this information. Before removing the Rack components from the carton, inspect the carton for any visible damage. If damage is evident, notify the common carrier. Remove the components from the carton and inspect for shipping damage. The assembly and mounting hardware is enclosed. Be sure to remove it before discarding the carton.

The following tools are required for assembly and Installation:

- 1 9/16" Box End Wrench
- 1 9/16" Socket (not required for Universal Rack, Part No. 46353-XXX)
- 1 3/4" Box End Wrench (not required for Standard Rack, Part No. 55053-XXX)
- 1 3/4" Socket (not required for Universal Rack, Part No. 46353-XXX)
- 1 Carpenter's Square (any size)
- 1 Measuring Tape or Rule
- 1 1/4" Wood Drill Bit (for Wood Floor Installation) -or-
- 1 5/8" Masonry Drill Bit (for Concrete Floor Installation)

A CPI Universal Self-Support Rack (CPI part number 46353-XXX) contains the following components:

- 2 3" Universal Channel
- 2 3 1/2" x 6" x 3/8" Extruded Base Angles
- 2 1 1/2" x 1 1/2" x 1/4" Extruded Top Angles, (for racks ordered with Optional Top Bar feature, the component part changes to: Two 1 1/2" X .25" Flat Bars)
- 8 1/2 - 13 x 1" Hex Head Bolts
- 4 3/8 - 16 x 7/8" Hex Head Bolts
- 4 3/8" Toothed Washers (Not on flush-Mount version)
- 50 #12-24 Combination Pan Head, Pilot Point, Mounting Screws
- 8 1/2" Toothed washer

A CPI Standard Self-Support Rack (CPI part number 55053-XXX) contains the following components:

- 2 3" Standard Channels
- 2 3 3/8" x 6" x 5/16" Extruded Base Angles
- 2 1 1/4" x 1 1/4" x 1/8" Extruded Top Angles
- 12 3/8 - 16 x 1" Hex Head Bolts
- 12 3/8 - 16 Hex Nuts
- 12 3/8 Split Lock Washers
- 50 #12-24 Combination Pan Head, Pilot Point, Mounting Screws

### ASSEMBLY:

1. Lay both channels flat on floor, with flanges facing each other. [ ]
2. Lay one base angle and one top angle on channels as shown and hand-start bolts. Do not tighten bolts at this point.
3. Turn support over and attach the second base and top angle as shown. Do not tighten bolts.
4. Using a square, align the channels, top angles, and the base angles to square the rack and to obtain a panel mounting hole spacing for a 19" Rack of 18 5/16", for a 23" Rack of 22 5/16", and for a 25" of 24 5/16" at the top and bottom of the rack (refer to Figure 1). Tighten all bolts securely. We recommend torque on 3/8 - 16 bolts from 17 to 19 ft.-lbs. and 1/2 - 13 bolts from 33 to 37 ft.-lbs. Stand rack upright, making sure the supports are still square with top and base angles.

### INSTALLATION:

Self-Supported Rack must be securely anchored to the floor. Floor Mounting Hardware described below can also be ordered from CPI (not included with rack).

Concrete Floor Installation (CPI Kit Part Number 40604-001). Refer to Figure 2.

1. Place the Rack where it is to be permanently located and drill a 5/8" diameter by 2 1/2" deep hole (from floor level) through each of the four (4) mounting holes in the base angles. Remove all concrete dust from the holes.
2. Screw the studs into the anchors from the top until they protrude approximately 1/2" beyond bottom edge.
3. Add to each stud; one fender washer, one split washer, and one hex nut. Insert anchor/stud combination into each of the four holes.
4. Tighten down all nuts securely. It is recommended that 3/8 - 16 nuts be tightened from 17 to 19 Ft-Lbs.

Wood Floor Installation ( Part Number 40607-001). Refer to Figure 3.

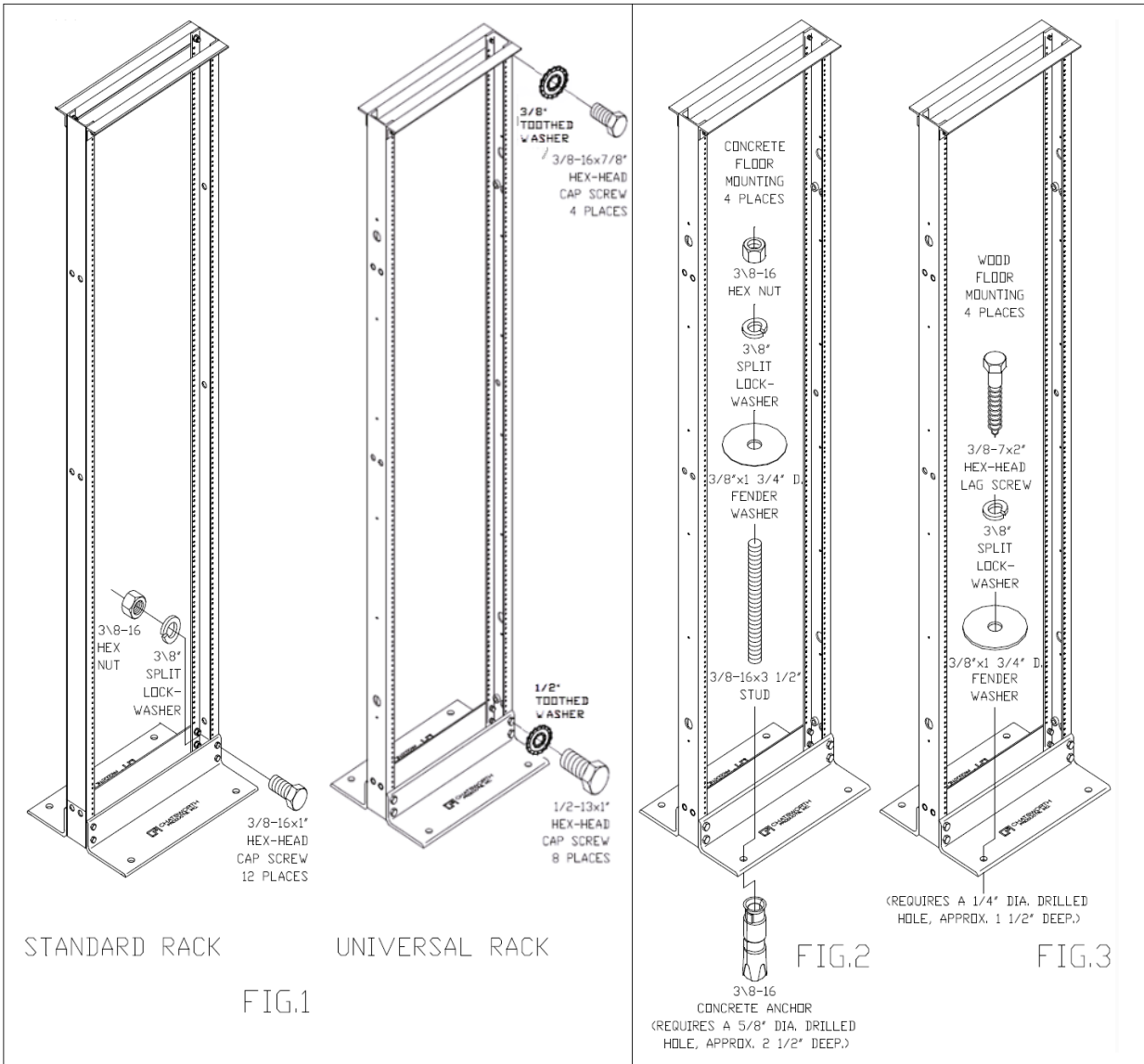
1. Place the Rack where it is to be permanently located and drill a 1/4" diameter by 1 1/2" deep hole (from floor level) through each of the four (4) mounting holes in the base angles.
2. Place on each lag screw first one lock washer and then one fender washer.
3. Screw one loaded lag screw into each of the four (4) pre-drilled holes.

4. Tighten down all lag screws securely.

**LOAD CAPACITY:**

Self Support Racks are designed as a system and have been tested for load capacity in conjunction with our shelves. Maximum capacities of racks and shelves are listed below. Distribute the load on racks evenly.

Model	Load Capacity
Universal Self Support Rack	1500 lb
Standard Self Support Rack	1000 lb
Single Sided Shelf (40074-series)	50 lb
Double Sided Shelf (40108-series)	100 lb
Double Sided Shelf (11054-series)	150 lb
Heavy-Duty Double Sided Shelf (11164-series)	200 lb



Recommended torque for #12-24 mounting screws is 30 in-lb. No particular rack maintenance is required. All CPI aluminum racks are finished with either a clear grained metal finish or powder coating finish to reduce the adverse effects of corrosion and staining.

For additional product information, please contact Customer Service Department at: **1-800-834-4969** (in U.S.A & Canada) or **www.chatsworth.com**. For international phone numbers, see our website or contact CPI Tech Support.

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