Installation Instructions

UNIVERSAL RACK

Safety Information

**WARNING:** This self-supporting rack must be securely anchored to the floor. See below for floor mounting hardware kits available from CPI.

**WARNING:** This self-supporting rack is designed to support a maximum of 1500 lbs. Distribute the load on the racks evenly from front to back with the heavier items low on the rack.

Tools Required

- 3/4” box-end wrench or socket
- 9/16” box-end wrench or socket
- Carpenters square
- Measuring tape or rule

Included Hardware

- 4 ea. 3/8” x 7/8”L hex head bolts (Not in Flush-Mount versions)
- 4 ea. 3/8” x 3/4”L flat-head bolts (in Flush-Mount version only)
- 8 ea. 1/2” x 1”L hex head bolts
- 4 ea. 3/8” toothed paint-cutting washer (Not in Flush-Mount versions)
- 8 ea. 1/2” toothed paint-cutting washer
- 2 ea. 1/4-20 flanged hex nuts
- 1 pkg. 12-24x5/8”L Phillips head screws, 50 CT

Assembly Sequence

1) Assemble the rack, as shown in figure 1, lying on the floor. Do not tighten the bolts yet.
2) Stand the rack upright.
3) Square the rack supports with the floor and tighten the bolts securely.
4) Recommended torque:
   - 3/8”-16 bolts: 17 to 19 ft-lbs.
   - 1/2”-13 bolts: 33 to 37 ft-lbs.

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Fig. 1, Rack assembly

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3/8” x 7/8”L hex head bolts
4 places
(Not on Flush-Mount version)

3/8” x 3/4”L flat head bolts
4 places
(On Flush-Mount version)

1/2” x 1”L hex head bolts
8 places

Use carpenters square to square the assembly with the floor.
UNIVERSAL RACK

5) Verify the mounting hole spacing according to the rack size as indicated in figure 2. Adjust the rack as needed.

6) The rack must be securely anchored to the floor. Floor mounting kits may be ordered from CPI as follows. Reference Figure 3
   - Concrete floor, 3/8" hardware, CPI kit P/N: 40604-001
   - Concrete floor, 1/2" hardware, CPI kit P/N: 40604-003
   - Wood floor, 3/8" hardware, CPI kit P/N: 40607-001
   - Raised floor support, contact customer support to determine the proper kit for your rack.

7) Studs are provided in two locations on one of the supports along with two nuts in the hardware package for attaching a grounding jumper. To route the ground wire out the top of the rack use the upper studs and the lower studs to route it out the bottom of the rack.
   - Available ground jumper kit P/N: 40159-008
   - Ground jumper 10-pack P/N: 10459-018

NOTE: On the Flush-Mount version, the top angles will not be grounded.

Fig. 2, EIA Spacing

HOLE-TO-HOLE SPACING

19" rack: 18-5/16"
23" rack: 22-5/16" ±1/16"
25" rack: 24-5/16"

Fig. 3, Floor anchors

Ground studs and two nuts included with rack

Ground jumper kit sold separately
P/N: 40159-008

1/2" Concrete floor anchor kit
P/N: 40604-003

3/8" Concrete floor anchor kit
P/N: 40604-001

Wood floor anchor kit
P/N: 40607-001

Raised floor support