



# THE BOX

Recommended Team Members Needed: 2

Designed & Made in the  
**USA**



**TALL**  
30"



**MEDIUM**  
20"



**SHORT**  
10"

## BOX TOP PLYWOOD DIMENSIONS (PLYWOOD NOT INCLUDED)

1/2" plywood recommended

**TALL:** 21-1/2" x 86 -1/2"

**MEDIUM:** 21-1/2" x 81-1/2"

**SHORT:** 21-1/2" x 76 -1/2"

## PARTS

### Insert Rails (x2 per rack)

TALL--45 1/4"  
MEDIUM--42 3/4"  
SHORT--40 1/4"

### Outer Rails (x2 per rack)

TALL--45 1/4"  
MEDIUM--42 3/4"  
SHORT--40 1/4"

### Assembled Rail Length:

TALL--86 1/2"  
MEDIUM--81 1/2"  
SHORT--76 1/2"

### Bottom Crossbar (x2 per rack)



### Top Crossbar (x2 per rack)



### Corner Posts (x2 left and x2 right per rack)

TALL--30"  
MEDIUM--20"  
SHORT--10"

### Tire Totter (Optional)



**Locate all parts and  
hardware before rack  
assembly!**

## HARDWARE



5/16" x 3/4"  
bolt



5/16" x 1 1/2"  
bolt



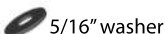
Thread  
Rolling  
Bolt

### TOOLS NEEDED:

\*1/2" socket/wrench  
\*1/2" wrench  
\*drill and 3/8" bit  
\*pencil or chalk

\*C clamps  
(optional)

5/16" stopnut



5/16" washer



1 1/4" plug



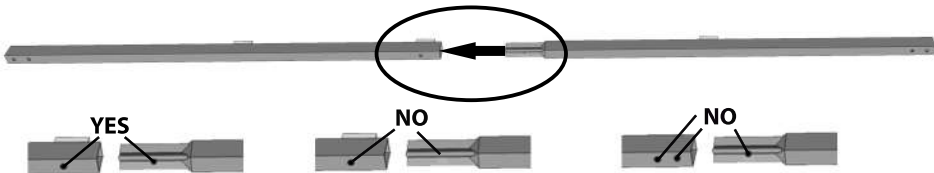
**NOTE:** These assembly instructions are for 1 BOX, and will be identical regardless of BOX size ordered.

### STEP 1: Pre-assembling the Rails.

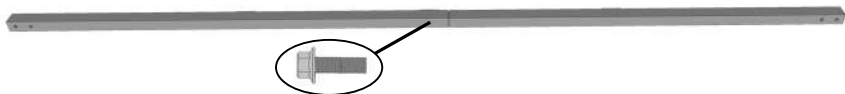
**needed:** insert rails, outer rails, thread rolling bolts, socket wrench, rubber mallet

**1a.** Slide together the insert rail and the outer rail, making sure the single hole at the end of the insert rail is lined up on the same side as the single hole in the outer rail.

*Double holes should be on the ends of rails. See close ups below.*



**1b.** Once holes are lined up, fasten them together using a thread rolling bolt. A rubber mallet may be used to line up the holes before fastening.



**1c.** Repeat *Steps 1a.-1b.* with other insert rails and outer rails.

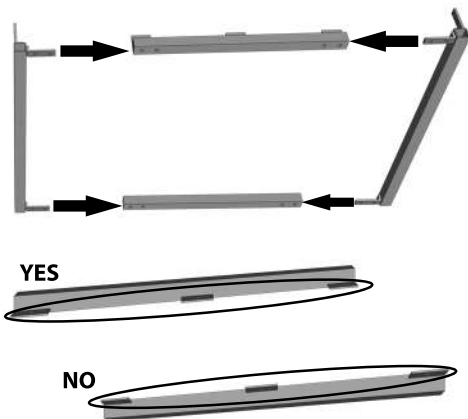
### STEP 2: Building the Corner Assemblies.

**needed:** corner posts, top crossbars, bottom crossbars, 5/16" x 3/4" bolts, 5/16" washers, socket wrench

**2a.** Fit together 2 of the corner posts with a top crossbar and a bottom crossbar.

#### NOTE BEFORE FASTENING:

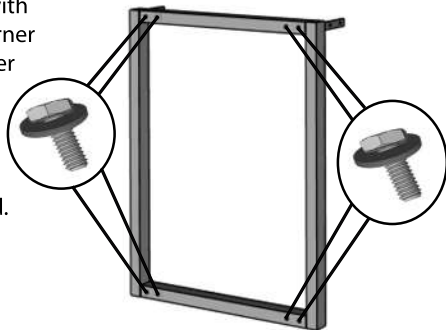
- \*top crossbar (with ears) will fit into the tops of the corner posts.
- \*tops of corner posts have two ears, bottoms of corner posts have one ear.
- \*bottom crossbar (no ears) will fit into the bottom ear of each corner post.
- \*bottom ears of corner posts should face each other.
- \*ears on top crossbar should be on the lower part of the top crossbar (*see closeup on right*).





## Building the Corner Assemblies (contd. from pg. 2)

**2b.** Insert  $5/16'' \times 3/4''$  bolts with  $5/16''$  washers into holes in corner assembly. Insert bolt/washer combos into holes only until they catch--then tighten each one a little at a time in a rotation until all bolts are snug tightened.

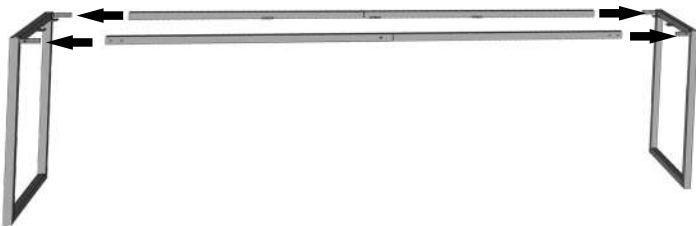


**2c.** Repeat *Steps 2a.-2b.* with remaining corner assembly.

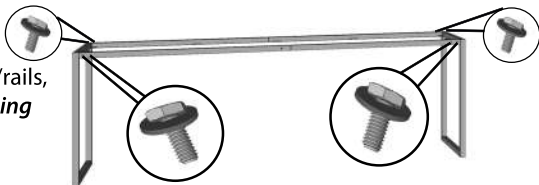
### STEP 3: Completing the Frame.

**needed:** assembled rails,  $5/16'' \times 3/4''$  bolts,  $5/16''$  washers

**3a.** Insert both rails into one of the corner assemblies, making sure all ears are facing inward. Repeat with 2nd corner assembly.



**3b.** Insert  $5/16'' \times 3/4''$  bolts and  $5/16''$  washers into top crossbars/rails, *again following the note for tightening under Step 2b.*

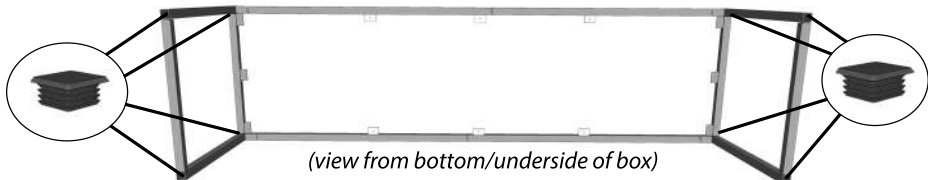




## STEP 4: Installing Box Top.

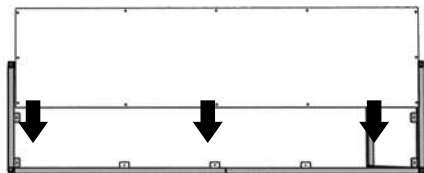
**needed:** plywood sheet (*not included*), drill and 3/8" bit, C clamps (optional), 5/16" x 1 1/2" bolts, 5/16" washers, 5/16" stopnuts, pencil or chalk

- 4a.** Flip box frame 90 degrees onto its side. Insert 1-1/4" plugs on each corner (4 per side.)

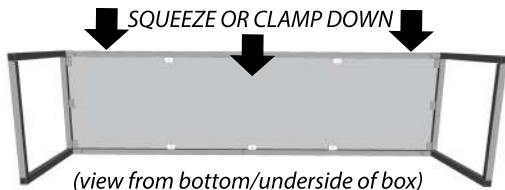


- 4b.** Place plywood into the frame on what will be the **top** of the box.

(view from top side of box)



- 4c.** With another person assisting or using C clamps as needed, mark drill holes with chalk or pencil on the **bottom/underside** box.



**NOTE:** Due to the nature of the materials, steel must be pushed down directly against the plywood before marking for the most accurate hole placement.

- 4d.** Take plywood out of box frame and drill previously marked holes. The side that had the marked holes will be the **bottom** of the box top.

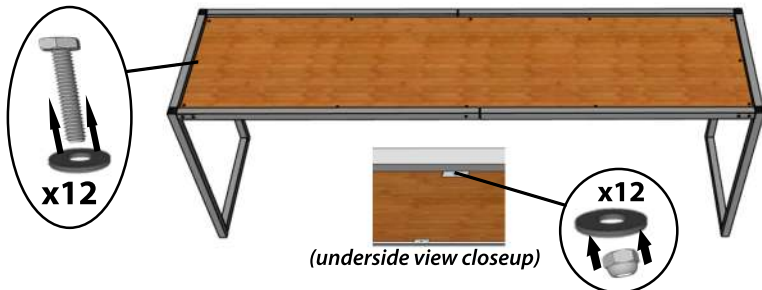
- 4e.** Stand box frame back up and place plywood back into frame.

**NOTE:** If staining or painting the plywood, do so **AFTER** the holes are drilled.



## Installing Box Top (contd. from pg. 4)

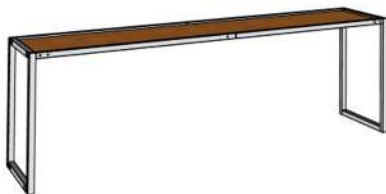
**4e.** Insert 5/16" x 1 1/2" bolts and 5/16" washers into plywood/box frame holes, fastening the bottoms of the bolts with 5/16" stopnuts and 5/16" washers.



**NOTE:** Tighten each bolt/washer/nut combo gradually, working your way around the surface as done with the corner frame assembly. **DO NOT OVER TIGHTEN.**

**4f.** Go back through box and snug tighten any loose bolts, taking care not to over tighten bolts/washers/stopnuts holding the box surface in place.

**The Box is now complete!**



*(With optional Tire Totters)*

