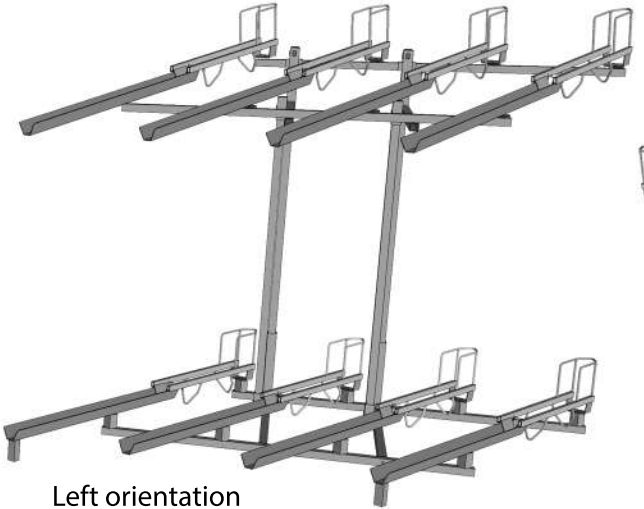
8 BIKE STRAIGHT FORWARD

Recommended Team Members Needed: 2

Designed & Made in the **USA**

Right orientation



Left orientation

Locate all parts and hardware before beginning rack assembly

Parts - 8 BIKE STRAIGHT FORWARD

Tray x 6

Stabilizer Tray x2

Stanchion x 8

Slide x 8

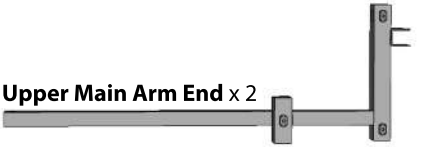
Spacer x 8

Floor Support End x 2

57" Vertical Post x 2

64" Vertical Post x 2

Upper Main Arm End x 2



RAIL P (Top Rails) x 2

RAIL Q (Bottom Rear Rail) x 1

RAIL R (Bottom Front Rail) x 1

All top and bottom rails are laser cut with their letters.

*These rails can be oriented to build a right facing or left facing rack.
See **Step 1b/pg. 3** for details.

Due to the modular nature of rack instructions, part quantities may vary. See packing list for part and hardware quantities.

TOOLS NEEDED:

***socket wrench with 7/16" and 1/2" sockets**
***7/16" wrench**
***1/2" wrench**
***tape measure**

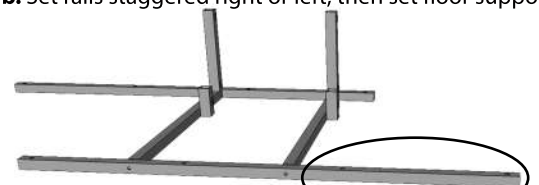
HARDWARE

STEP 1: Deciding rack orientation.

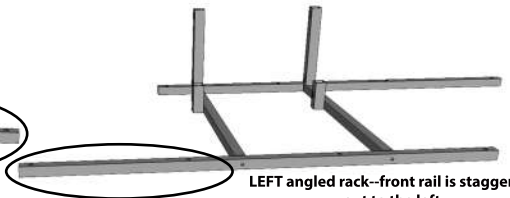
needed: Rail Q (bottom rear rail), rail R (bottom front rail), floor support ends, 5/16"x2" bolts, 5/16" washers, 1/2" socket/wrench

1a. Lay out both rail **Q** (bottom rear rail) and rail **R (**bottom front rail).
Letters on both rails should be facing DOWN.

1b. Set rails staggered right or left, then set floor supports between them as shown below.

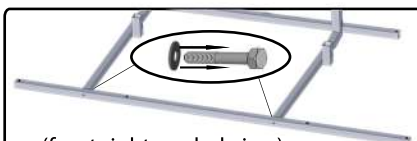


RIGHT angled rack--front rail is staggered out to the right



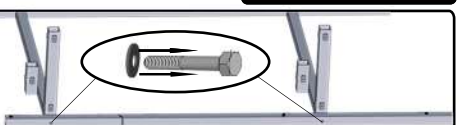
LEFT angled rack--front rail is staggered out to the left

NOTE:
first rail assembly in **step 1b** is laid out for a RIGHT orientation. For a left orientation, simply **flip each** rail 180 degrees.



(front right angled view)

1c. Attach floor support ends to rails with 5/16"x 2" bolts and 5/16" washers. Snug tighten bolts.

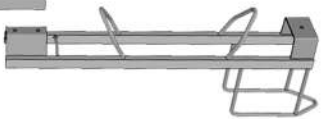


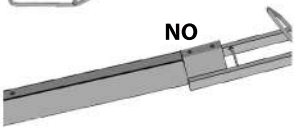
(back right angled view)

STEP 2: Pre-assemble trays.

needed: trays, stabilizer trays, stanchions, 1/4" washers, 1/4" x 3/4" bolts, 1/4" stopnuts, 1/2"x1" plugs, 1-1/4" plugs, 7/16" socket, socket wrench, 7/16" wrench

2a. Turn stanchion and tray upside down. Align the 2 holes on the stanchion with the 2 holes on the tray.

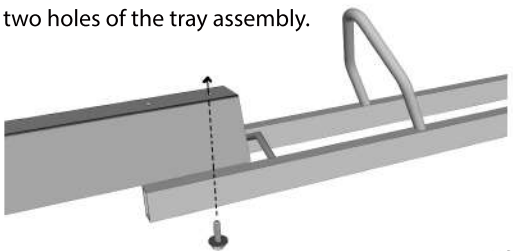


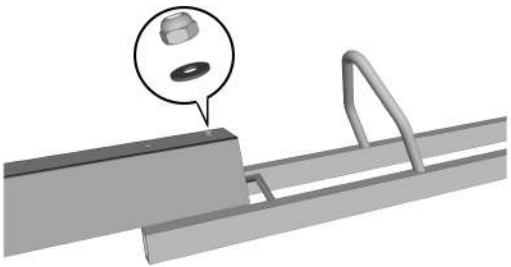


(tray should be on OUTSIDE of stanchion, as shown above)

2b. Place a 1/4" washer over a 1/4" x 3/4" bolt.

2c. Insert bolt and washer combo into one of the two holes of the tray assembly.





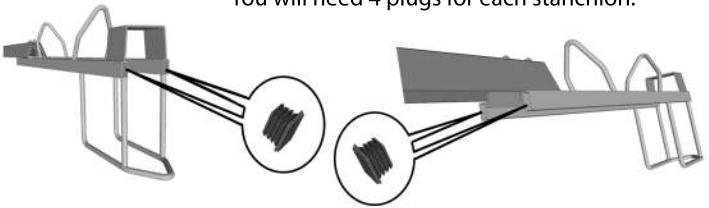
2d. Fasten bolt/washer in place using a 1/4" washer and 1/4" stop nut. Tighten LOOSELY using both the 7/16" socket/wrench and 7/16" wrench.

2e. Repeat steps 2b.-2d. for second hole, then finish tightening both bolts and stop nuts with the 7/16" socket/wrench and 7/16" wrench.

2f. Repeat steps 2a.-2e. for all remaining trays (including stabilizer trays), and stanchions.

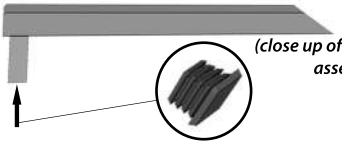
Pre-assembling trays (contd. from page 4)

2g. Insert 1/2"x 1" plugs into the front and back of the stanchion as shown.
You will need 4 plugs for each stanchion.



2h. Repeat step 2g. for the remaining assembled trays.

2i. Insert a 1-1/4" plug on the bottom foot of each of the stabilizer trays.



(close up of stabilizer tray assembly)

NOTE: the remainder of the instructional diagrams will be for a ***right oriented*** rack. For a left oriented rack, simply mirror the remaining parts.

STEP 3: Attach tray assemblies to bottom rails.

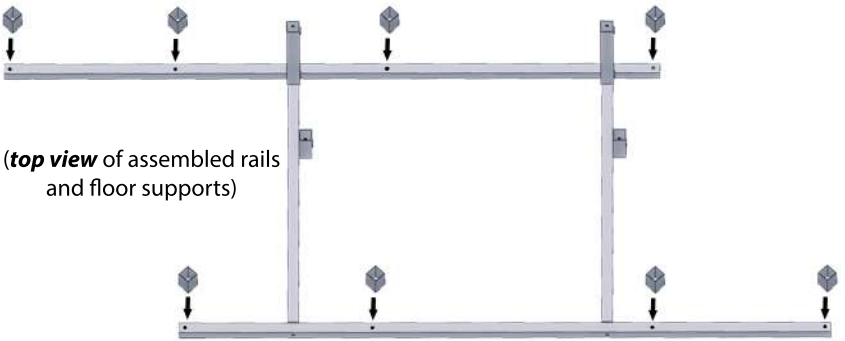
needed: tray/stanchion assemblies, bottom front and rear rails with attached floor supports, spacers, 5/16" washers, 5/16" x 3 3/4" bolts, 1/2" socket/wrench

3a. Place spacers over the riv nut holes (holes with metal inserts) on the rails. Place spacers ***at an angle, not flush*** with rails.

YES

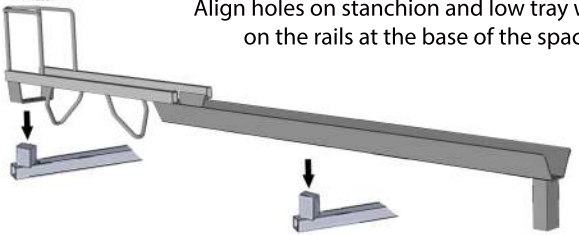
NO

(***top view*** of assembled rails and floor supports)

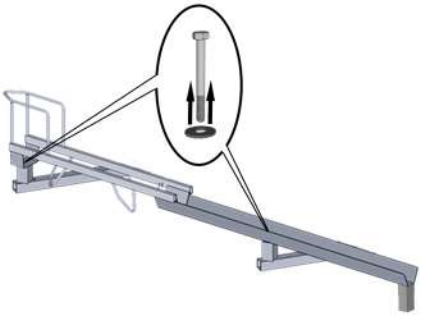


Attach tray assemblies to bottom rails (contd. from pg. 5)

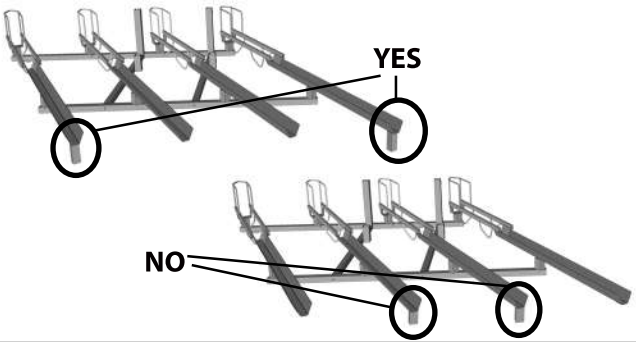
3b. Starting on one of the ***ends*** of the bottom rail assembly, Place a ***stabilizer tray assembly*** on top of a set of spacers. Align holes on stanchion and low tray with holes on the rails at the base of the spacers.



3c. Attach the stabilizer tray assembly and spacers to rails using *(2)* 5/16"x 3 3/4" bolts and *(2)* 5/16" washers.



3d. Repeat steps 3b. and 3c. for all remaining trays, ***making sure both stabilizer trays are on the ENDS of the bottom rail assembly.***



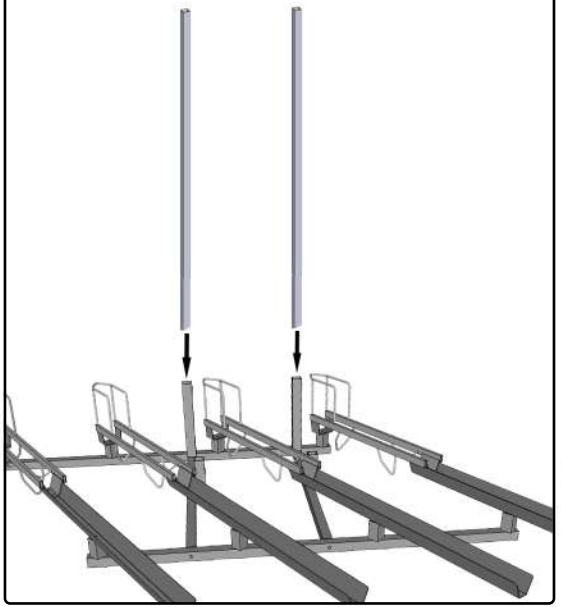
The base of your rack is now complete!

STEP 4: Beginning to build the 2nd tier.

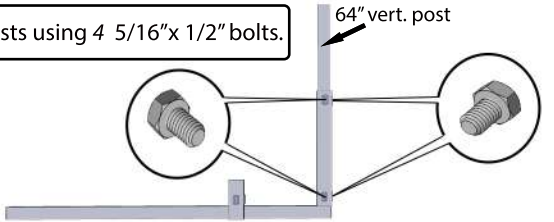
needed: 64" and 57" vertical posts, 5/16" x 1/2" bolts, 1/2" socket and wrench

NOTE: After securing/bolting both sets of vertical posts to the floor supports, there WILL BE PLAY in the vertical posts and bottom base assembly until the main arms and top rails are attached.

4a. Insert the 64" vertical posts into the rear vertical portion of the floor supports.

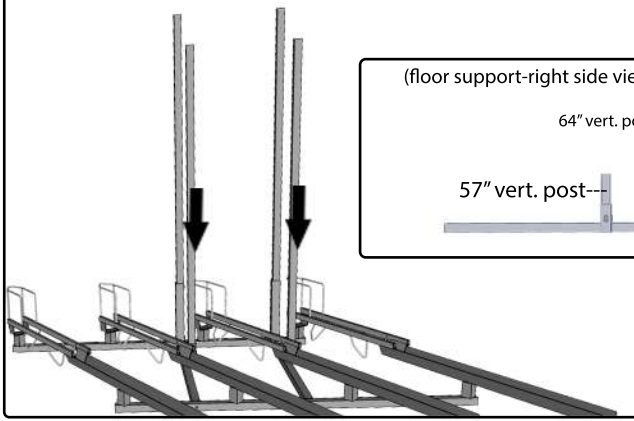


4b. Secure 64" posts using *4* 5/16"x 1/2" bolts.



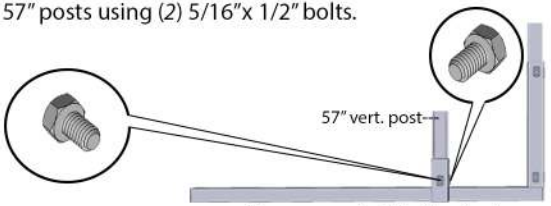
(floor support-right side view)

4c. Insert the 57" vertical posts into the shorter middle portion of the floor supports.



Beginning to build the 2nd tier (contd. from pg. 7)

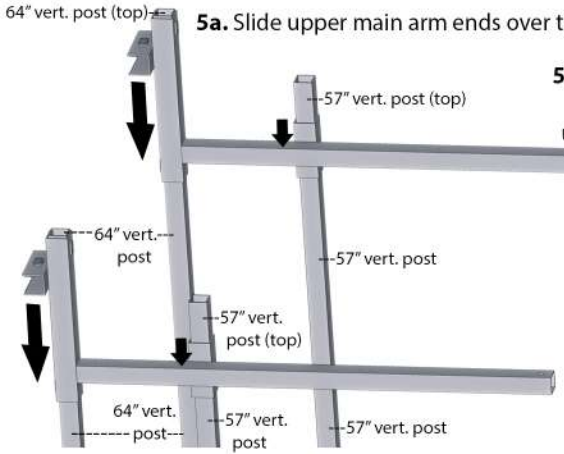
4d. Secure 57" posts using (2) 5/16"x 1/2" bolts.



NOTE: After securing/bolting both sets of vertical posts to the floor supports, there WILL BE PLAY in the vertical posts and bottom base assembly until the main arms and top rails are attached.

STEP 5: Attaching arms and top rails.

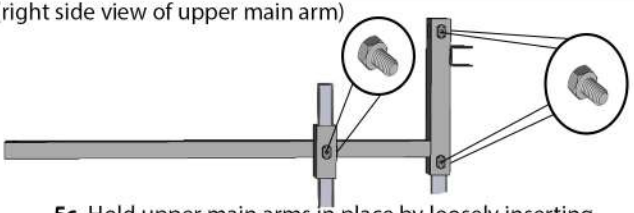
needed: upper main arm ends, P rails (top rails), 5/16" x 1/2" bolts, 5/16"x 3" bolts, 5/16" washers, 5/16" stopnuts, 1/2" socket and wrench, 1/4" x 1 3/4" bolts, tape measure



5a. Slide upper main arm ends over the vertical posts, as shown.

5b. Adjust upper main arms up or down the vertical posts for desired rack height. **It's recommended to make the rear insertion point of the upper main arm ends flush with the tops of the 64" vertical posts as shown on the diagram.**

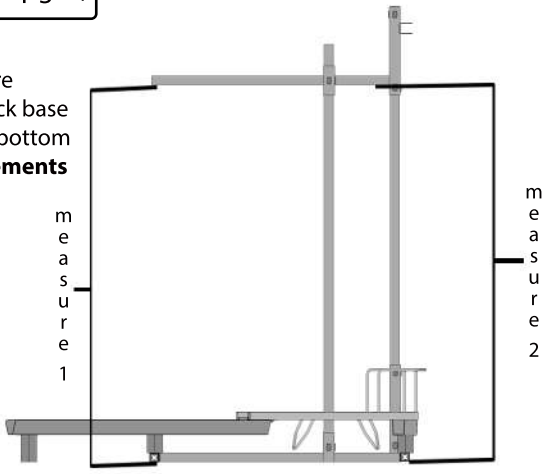
(right side view of upper main arm)



5c. Hold upper main arms in place by loosely inserting the 5/16"x 1/2" bolts into the main arms (6 bolts per arm)

Attaching the arms and top rails (contd. from pg. 8)

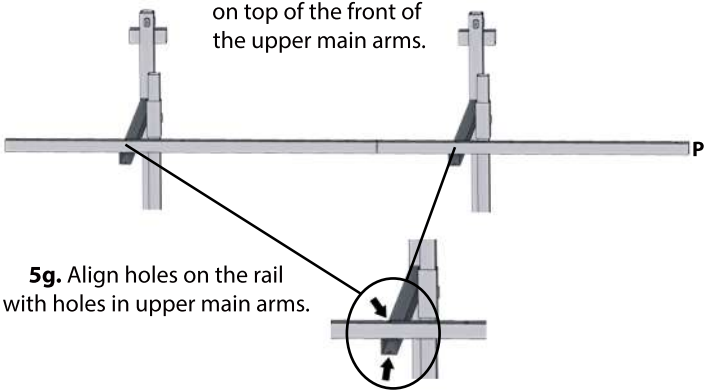
5d. Using a tape measure, confirm that main arm ends are level with **2 measurements**: the height from the bottom of rack base to the front bottom of the upper main arm end, and the back bottom main arm end to back bottom of rack base. **These 2 measurements should be equal.** Adjust upper main arm end up and down as needed.



(right side view)

5e. Tighten bolts that were in inserted in step 5c.

5f. Place one of the top rails (either of the **P** rails--they're interchangeable) on top of the front of the upper main arms.



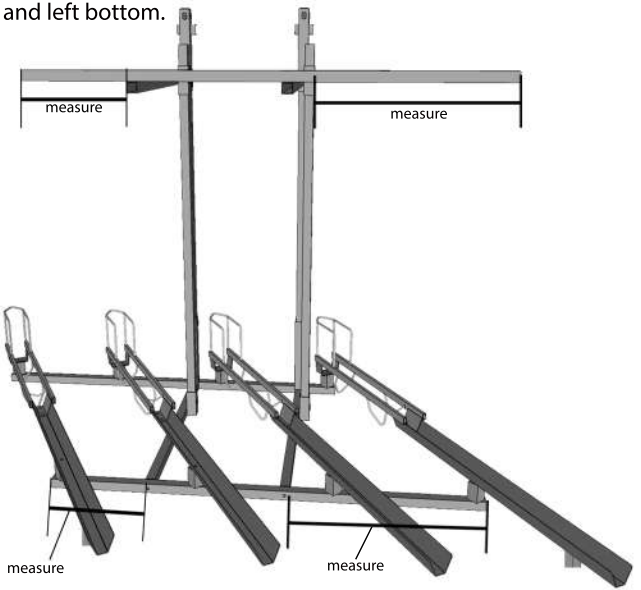
5g. Align holes on the rail with holes in upper main arms.

NOTE ON RAIL PLACEMENT FOR BOTH FRONT AND BACK TOP RAILS:

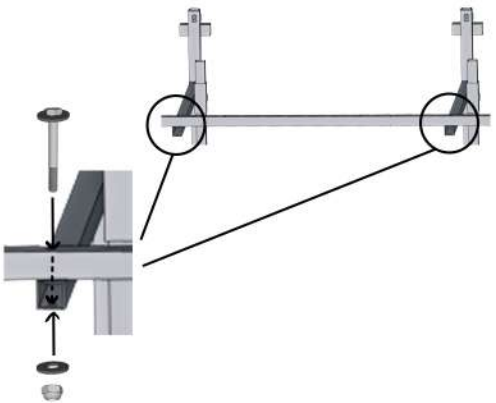
*letters of top rails should be on the bottom/facing the floor with both a left or right oriented rack.

Attaching the arms and top rails (contd. from pg. 9)

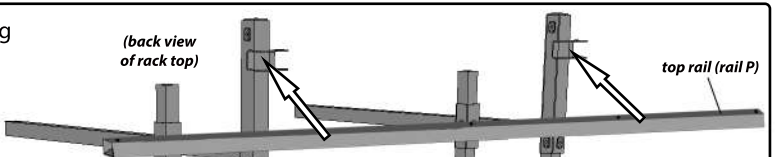
5h. Using a tape measure, make sure right top ends and right bottom ends are equal lengths. Repeat with left top and left bottom.



5i. After double checking that upper main arm and rail holes are aligned, secure top front rail to upper main arms with 5/16"x 3" bolts, 5/16" washers, and 5/16" stopnuts.

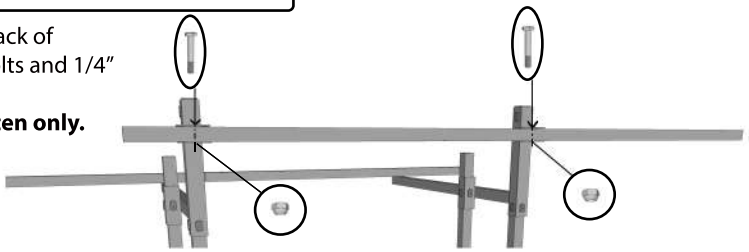


5j. From the *back side* of the rack, place remaining top rail (rail P) into the C-channels on the back of the upper main arms. ***Again, double checking that the laser cut letters on rails are facing downward.***

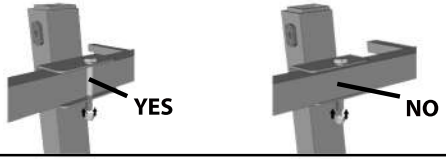


Attaching the arms and top rails (contd. from pg. 10)

5k. Fasten rear top rail to the back of upper main arms with 1/4"x 1 3/4" bolts and 1/4" stopnuts.
DO NOT over tighten--hand tighten only.



NOTE: the 1/4" x 1 3/4" bolts are inserted through the holes in the arm c-channels, in ***front*** of the rail, not ***through*** the rail.



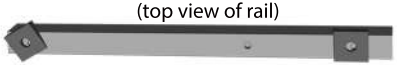
STEP 6: Aligning top rear rail/ attaching tray assemblies.

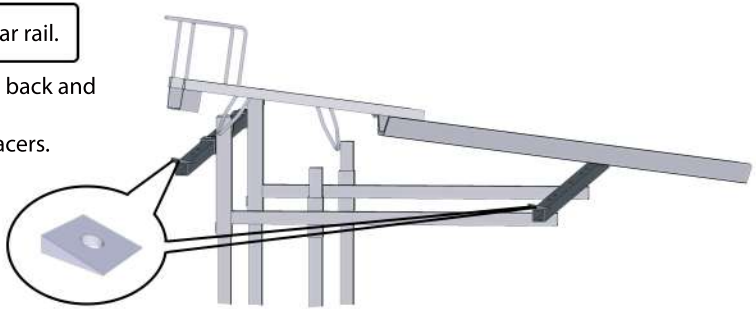
needed: tray assemblies, slides, 5/16" x 1/2" bolts, 5/16"x 2-1/2" bolts, 5/16" washers, 5/16" stopnuts, 1/2" socket and wrench, tape measure

6a. Repeat Step 5h (from pg 10) with top rear rail.

6b. Place slides on top of end holes of both the back and front rail. Angle slides to match angle of trays, as done in ***Step 3a (pg. 5)*** with spacers.

(top view of rail)



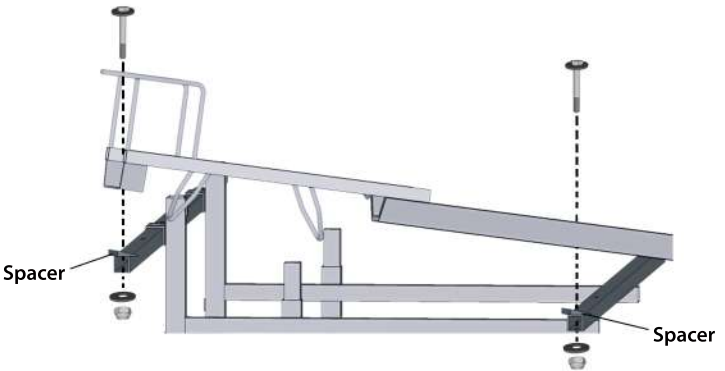


Aligning top rear rail/ attaching tray assemblies (contd. from pg.11)

6c. Place first tray assembly. Line up bolt holes on tray assembly with the corresponding holes on the top front and top rear rails. ***Be sure spacers are still placed properly (see pg 11) on top of the rails.***

6d. Fasten tray assembly to both top rails with 5/16" x 2-1/2" bolts (2 per tray), 5/16" washers (4 per tray), and 5/16" stopnuts (2 per tray).

6e. Repeat **Steps 6c-6d.** for all remaining tray assemblies.

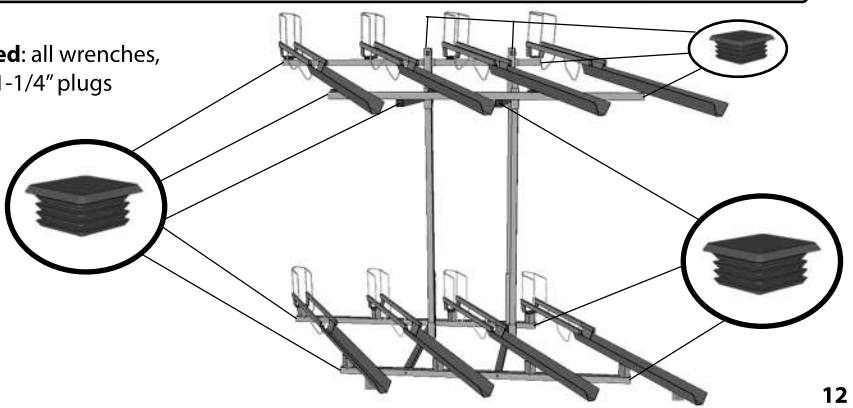


STEP 7: Finishing Touches.

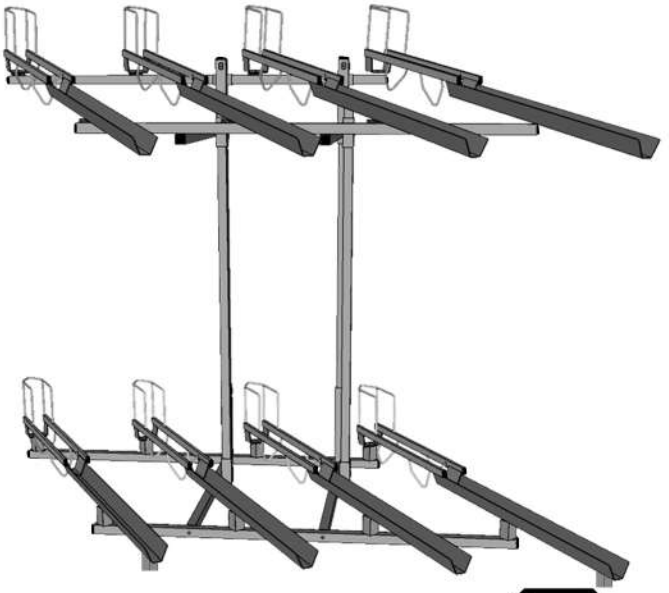
needed: all wrenches, 1-1/4" plugs

7a. Go back through the assembled rack and tighten loose bolts.

7b. Insert 1-1/4" plugs into all exposed ends of supports, rails, and arms.



Your rack is now complete!



STOP

STOP

BEFORE LOADING BIKES:

It is recommended that the rear derailleur is set on the middle cog and the front derailleur is set on the largest chain ring to prevent chain or derailleur damage.