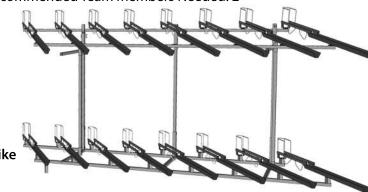
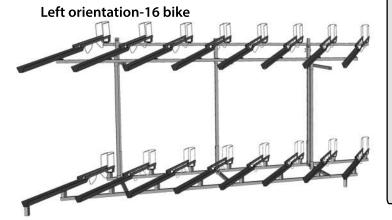
12,14,16 BIKE STRAIGHT FORWARD

Recommended Team Members Needed: 2



Right orientation-16 bike

Designed & Made in the **USA**

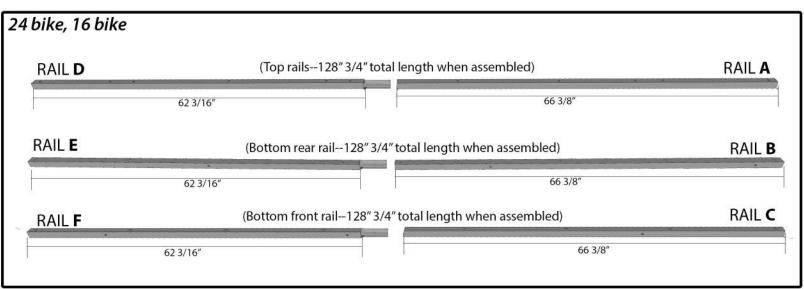


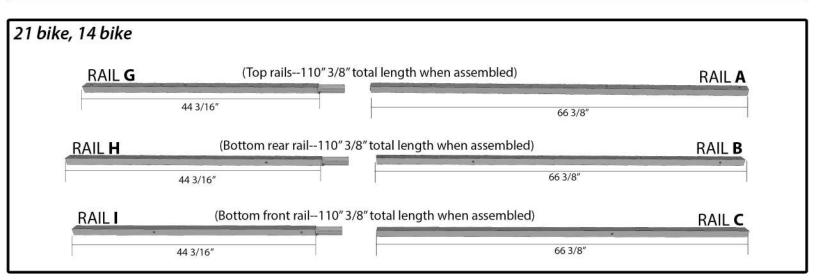
LOCATE ALL PARTS AND HARDWARE BEFORE BEGINNING RACK ASSEMBLY!

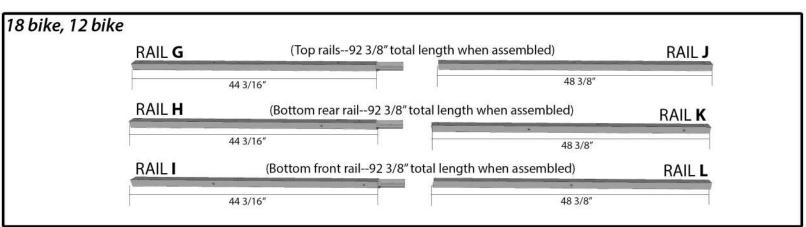
These assembly instructions will picture a 16 bike rack.
However, assembly steps will be the same for a 12 or 14 bike rack--only rail length, part and hardware quantities will differ.

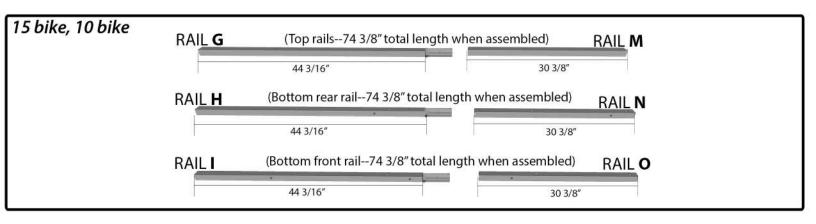
split rail pairings key sheet is on next page

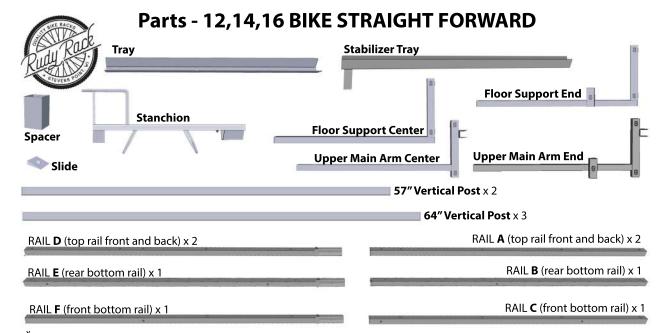
SPLIT RAIL PAIRINGS







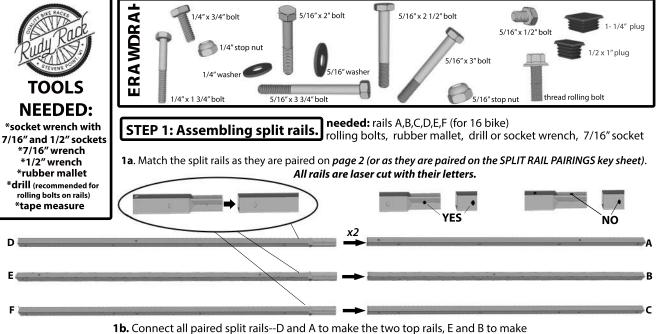




^{*}These rails can be re-oriented to build a right facing or left facing rack. See **Step 2/pg. 4** for details.

NOTE: The rail letters above are for a 16 bike, which will be used for these assembly instructions. If assembling a 12 or 14 bike rack, refer to the SPLIT RAIL PAIRINGS key sheet included in the assembly instructions for the rails required for your rack.

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



1b. Connect all paired split rails--D and A to make the two top rails, E and B to make the rear bottom rail, and F and C to make the front bottom rail.

NOTES--READ BEFORE CONTINUING RAIL ASSEMBLY!

*the identification letters of rail sections should be facing DOWN and on the ends of the completed rail.

*be sure holes are lined up before sliding together each pair of rail pieces

*use a rubber mallet to gently tap on the rail ends to snug each pair together

*gold rivets in the bottom front, and rear rail holes should face **UP**



Assembling split rails (contd. from pg. 3)

1c. Secure each assembled rail with a thread rolling bolt. A drill with a 7/16" socket is recommended. If using a hand socket use moderate downward pressure, making sure bolt is straight.



STEP 2: Deciding Rack Orientation/Assembling Base.

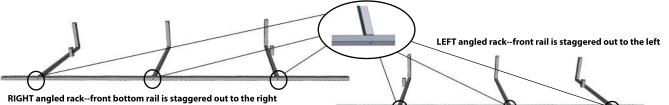
needed: Bottom rear rail (E+B), bottom front rail (F+C), floor support ends, floor support center, 5/16"x 2" bolts, 5/16" washers



2b. Whichever way the crimped end of the split rail assembly faces, that will be the direction your trays face.

NOTE: rails/rack parts starting with **2c.** will be laid out for a RIGHT orientation. For a left orientation, simply flip each rail 180 degrees (the second illustration in **2c.** shows a left oriented rack).

2c. Lay out bottom *front* rail, then set floor support ends and floor support center behind it, matching the supports with the rail holes, as shown below.





Deciding rack orientation/Assembling base (contd. from pg. 4)

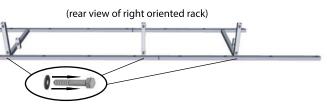
2d. Attach floor support ends and floor support center to rails with 5/16"x 2" bolts and 5/16" washers. Tighten bolts.



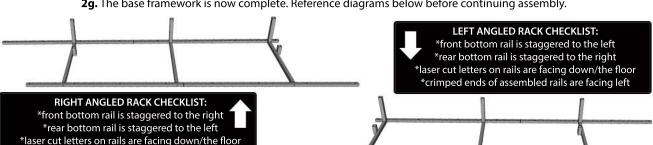
2e. Place rear bottom rail behind floor support ends and floor support center, lining up support holes with rail holes.

*crimped ends of assembled rails are facing right

2f. Attach rear bottom rail to floor support ends and floor support center with 5/16" x 2" bolts and 5/16" washers. Tighten bolts.



2q. The base framework is now complete. Reference diagrams below before continuing assembly.

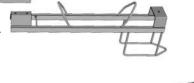




STEP 3: Pre-assemble trays.

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

3a. Turn stanchion and low tray upside down. Align the 2 holes on the stanchion with the 2 holes on the low tray.



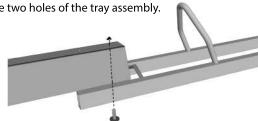
3b. Place a 1/4" washer over a 1/4" x 3/4" bolt.

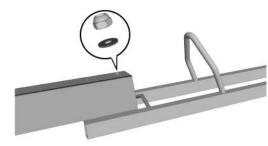




(low tray should be on OUTSIDE of stanchion, as shown above)

3c. Insert bolt and washer combo into one of the two holes of the tray assembly.





3d. 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.

3e. Repeat steps 3b.-3d. for second hole, then *finish tightening* both bolts and stop nuts with the 7/16" socket/wrench and 7/16" wrench.

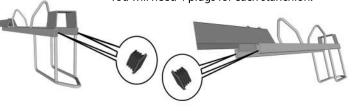
3f. Repeat steps 3a.-3e. for all remaining low trays (including stabilizer trays), and stanchions.



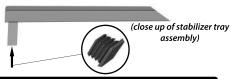
Pre-assembling trays (contd. from page 6)

3g. Insert 1/2"x 1" plugs into the front and back of the stanchion as shown.

You will need 4 plugs for each stanchion.



- **3i.** Repeat step 3g. for the remaining assembled trays.
- **3j.** Insert a 1-1/4" plug on the bottom foot of each of the stabilizer trays.



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

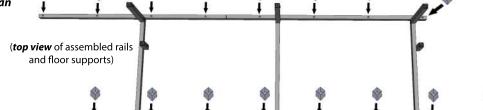
STEP 4: Attach tray assemblies to bottom rails.

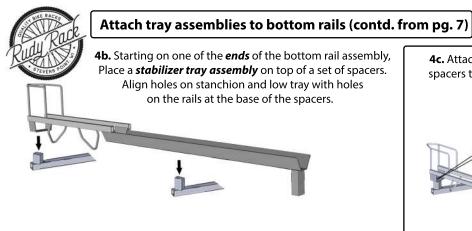
needed: tray/stanchion assemblies, bottom front and rear rails with attached floor supports, spacers, 5/16" washers, 5/16" x 3 3/4" bolts, 1/2" socket/wrench

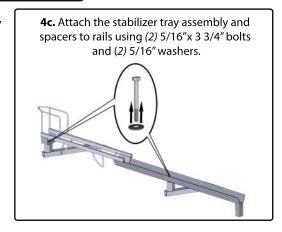
4a. Place spacers over the riv nut holes (holes with metal inserts) on the rails. Place spacers **at an angle, not flush** with rails.

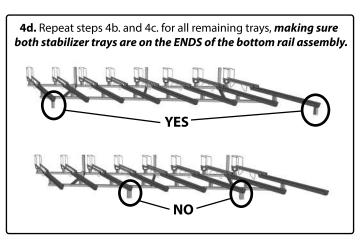














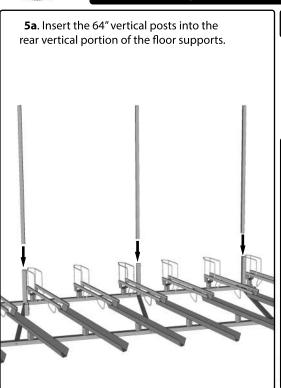


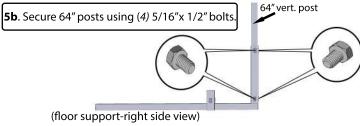


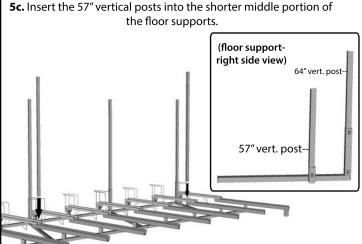
STEP 5: Beginning to build the 2nd tier.

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.

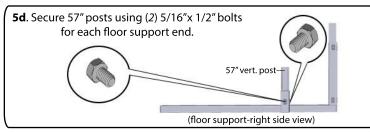








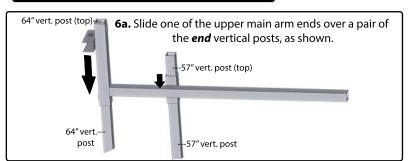
Beginning to build the 2nd tier (contd. from pg. 9)



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.

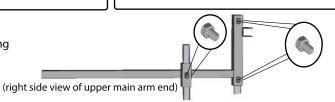
STEP 6: Attaching arms and top rails.

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

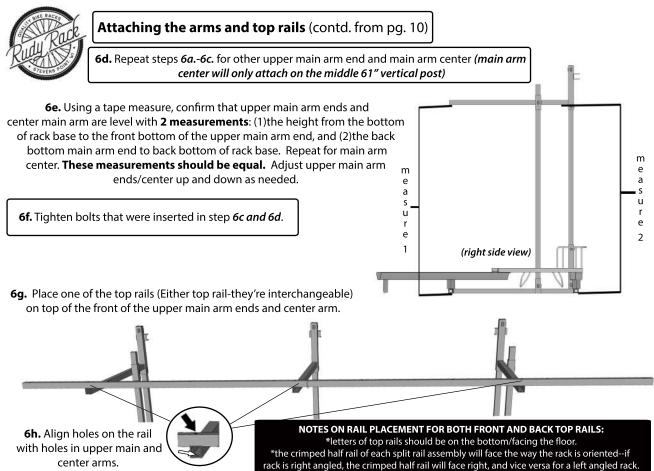


6b. Adjust upper main arm end up or down the vertical post for desired rack height. It's recommended to make the rear insertion point of the upper main arm ends flush with the tops of the 64" vertical posts as shown on the diagram in 6a.

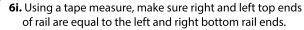
6c. Hold upper main arm in place by loosely inserting the (6) 5/16"x 1/2" bolts into the main arm.

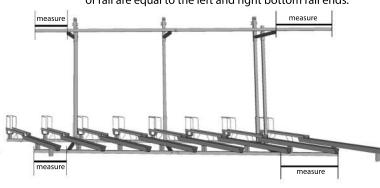


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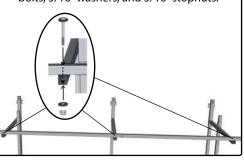


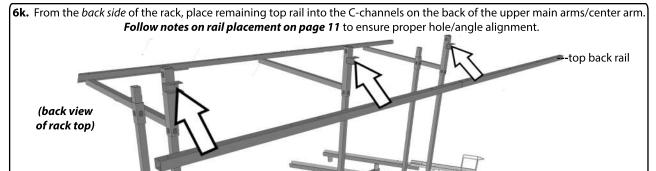
Attaching the arms and top rails (contd. from pg. 11)





6j. After double checking that upper main arm and rail holes are aligned, secure top front rail to upper main arms/center with 5/16"x 3" bolts, 5/16" washers, and 5/16" stopnuts.







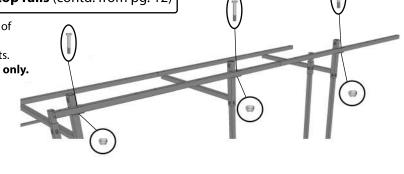
Attaching the arms and top rails (contd. from pg. 12)

6l. Fasten rear top rail to the back of upper main arms/center 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.





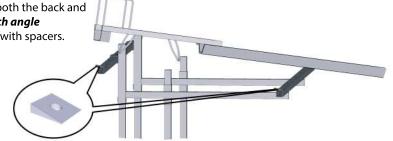
STEP 7: Aligning top rear rail/ attaching tray assemblies.

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

7a. Repeat Step 6h (from pg 11) with top rear rail.

7b. 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 4a (pg. 6)** with spacers.

(top view of rail)
YES NO



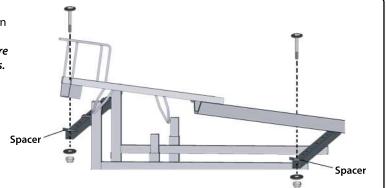


Aligning top rear rail/ attaching tray assemblies (contd. from pg.13)

7c. 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 13) on top of the rails.*

7d. 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).

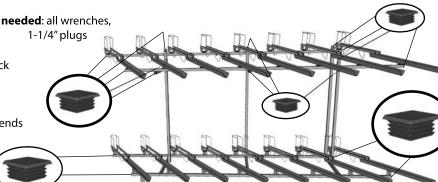
7e. Repeat **Steps 7c-7d.** for all remaining tray assemblies.



STEP 8: Finishing Touches.

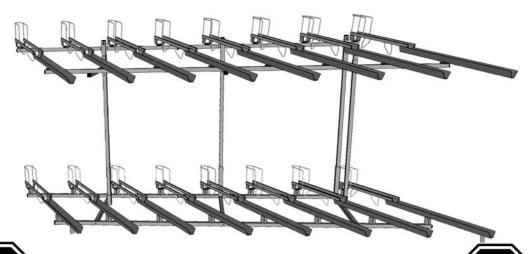
8a. Go back through the assembled rack and tighten any loose bolts.

8b. 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.