



SARIS
INFRASTRUCTURE

STACK RACK INSTALLATION

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Thanks for purchasing a Saris Infrastructure product!

Congratulations on choosing a world-class two-tier bicycle parking system! The Stack Rack was designed and manufactured in the Upper Midwest, the steel is from local foundries and the end product was carefully produced by our beloved staff in Madison, WI.

The Stack Rack is a customizable two-tiered lift assist bicycle parking system that combines industrial design and strength with dialed spacing to maximize density and usability. Flexibility in bike spacing, rack configuration and its modular design make this system adaptable to nearly any installation location. Most of all, it is easy to assemble and maintain.

Please read and understand the following instructions before beginning your installation.

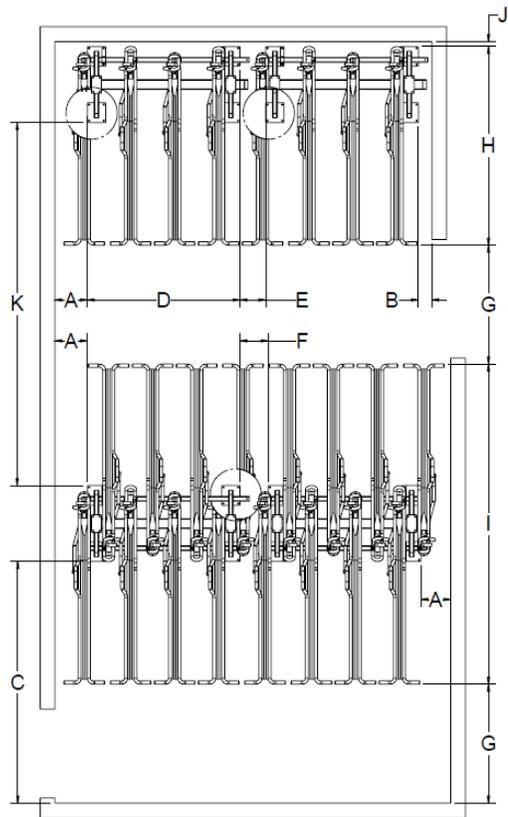
Everyone here at Saris wants you to be happy with this product. Please contact us (sales@sarisinfrastructure.com, 800-783-7257) should you need anything.

Single-Sided

Configuration	"A"	"B"	"D"	"E"	"G"	"H"	"J"	"K"	"L"	"M"	"N"	"O"
17" (43.2cm) Handlebar Spacing 4 Bike	15.5" (33.7cm)	5" (12.7cm)	27"(68.6cm)	9" (22.9cm)	48" (121.9cm) Min.	80.5" (204.5cm)	2" (5.1cm)	146.75" (372.8cm) Min. 170.75" (433.7cm) Recommended	12" (30.5cm) – Lower position 20" (50.8cm) – Upper position	104" (264.2cm)	42"	29.75" (75.6 cm)
17" (43.2cm) Handlebar Spacing 6 Bike			44"(111.8cm)									
17" (43.2cm) Handlebar Spacing 8 Bike			61"(154.9cm)									
17" (43.2cm) Handlebar Spacing 10 Bike			78"(198.1cm)									
17" (43.2cm) Handlebar Spacing 12 Bike			95"(241.3cm)									
17" (43.2cm) Handlebar Spacing 14 Bike			112"(284.5cm)									
17" (43.2cm) Handlebar Spacing 16 Bike			129"(327.7cm)									
18" (45.7cm) Handlebar Spacing 4 Bike			10.5" (26.7cm)	27"(68.6cm)								
18" (45.7cm) Handlebar Spacing 6 Bike				44"(111.8cm)								
18" (45.7cm) Handlebar Spacing 8 Bike				62.5"(158.8cm)								
18" (45.7cm) Handlebar Spacing 10 Bike				80.5"(204.5cm)								
18" (45.7cm) Handlebar Spacing 12 Bike				98.5"(250.2cm)								
18" (45.7cm) Handlebar Spacing 14 Bike				116.5"(295.9cm)								
18" (45.7cm) Handlebar Spacing 16 Bike			134.5"(341.6cm)									
20" (50.8 cm) Handlebar Spacing 4 Bike			12.5" (31.8cm)	27.5" (69.9cm)								
20" (50.8 cm) Handlebar Spacing 6 Bike				47.5" (120.7)								
20" (50.8 cm) Handlebar Spacing 8 Bike				67.5" (171.5cm)								
20" (50.8 cm) Handlebar Spacing 10 Bike				87.5" (222.3cm)								
20" (50.8 cm) Handlebar Spacing 12 Bike				107.5" (273.1cm)								
20"(50.8 cm) Handlebar Spacing 14 Bike				127.5" (323.9cm)								
24" (61.0cm) Handlebar Spacing 4 Bike				14.5" (36.8cm)	33.5"(85.1cm)							
24" (61.0cm) Handlebar Spacing 6 Bike					57.5"(146.1cm)							
24" (61.0cm) Handlebar Spacing 8 Bike					81.5"(207.0cm)							
24" (61.0cm) Handlebar Spacing 10 Bike					105.5"(268.0cm)							
24" (61.0cm) Handlebar Spacing 12 Bike					129"(327.7cm)							
30" (76.2 cm) Handlebar Spacing 4 Bike					40.5" (102.9cm)							
30" (76.2 cm) Handlebar Spacing 6 Bike			19.5" (49.5cm)	70.5" (179.1cm)								
30" (76.2 cm) Handlebar Spacing 8 Bike				100.5" (255.3cm)								
30" (76.2 cm) Handlebar Spacing 10 Bike				130.5" (331.5cm)								

Double-Sided

Configuration	"A"	"C"	"D"	"F"	"G"	"I"	"J"	"K"	"L"	"M"	"N"	"O"		
17" (43.2cm) Handlebar Spacing 8 Bike	15.5" (33.7cm)	97.75" (248.3cm) Min.	27" (68.6cm)	11" (27.9cm)	48" (121.9cm) Min.	129.5" (328.9cm)		146.75" (372.8cm) Min.	12" (30.5cm) – Lower position	104" (264.2 cm)	42"	29.75" (75.6 cm)		
17" (43.2cm) Handlebar Spacing 12 Bike			44" (111.8cm)											
17" (43.2cm) Handlebar Spacing 16 Bike			61" (154.9cm)											
17" (43.2cm) Handlebar Spacing 20 Bike			78" (198.1cm)											
17" (43.2cm) Handlebar Spacing 24 Bike			95" (241.3cm)											
17" (43.2cm) Handlebar Spacing 28 Bike			112" (284.5cm)											
17" (43.2cm) Handlebar Spacing 32 Bike			129" (327.7cm)											
18" (45.7cm) Handlebar Spacing 8 Bike			121.75" (309.2cm) Recommended	27" (68.6cm)									11.5" (29.1cm)	
18" (45.7cm) Handlebar Spacing 12 Bike				44" (111.8cm)										
18" (45.7cm) Handlebar Spacing 16 Bike				62.5" (158.8cm)										
18" (45.7cm) Handlebar Spacing 20 Bike				80.5" (204.5cm)										
18" (45.7cm) Handlebar Spacing 24 Bike				98.5" (250.2cm)										
18" (45.7cm) Handlebar Spacing 28 Bike				116.5" (295.9cm)										
18" (45.7cm) Handlebar Spacing 32 Bike			134.5" (341.6cm)											
20" (50.8 cm) Handlebar Spacing 8 Bike			121.75" (309.2cm) Recommended	27.5" (69.9cm)									12.5" (31.8cm)	72" (182.9cm) Recommended
20" (50.8 cm) Handlebar Spacing 12 Bike				47.5" (120.7)										
20" (50.8 cm) Handlebar Spacing 16 Bike		67.5" (171.5cm)												
20" (50.8 cm) Handlebar Spacing 20 Bike		87.5" (222.3cm)												
20" (50.8 cm) Handlebar Spacing 24 Bike		107.5" (273.1cm)												
20" (50.8 cm) Handlebar Spacing 28 Bike		127.5" (323.9cm)												
24" (61.0cm) Handlebar Spacing 8 Bike		33.5" (85.1cm)		14.5" (36.8cm)										
24" (61.0cm) Handlebar Spacing 12 Bike		57.5" (146.1cm)												
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30" (76.2 cm) Handlebar Spacing 8 Bike		40.5" (102.9cm)			19.5" (49.5cm)									
30" (76.2 cm) Handlebar Spacing 12 Bike		70.5" (179.1cm)												
30" (76.2 cm) Handlebar Spacing 16 Bike		100.5" (255.3cm)												
30" (76.2 cm) Handlebar Spacing 20 Bike		130.5" (331.5cm)												



A and B dimensions position end trays 14" on center from the wall.

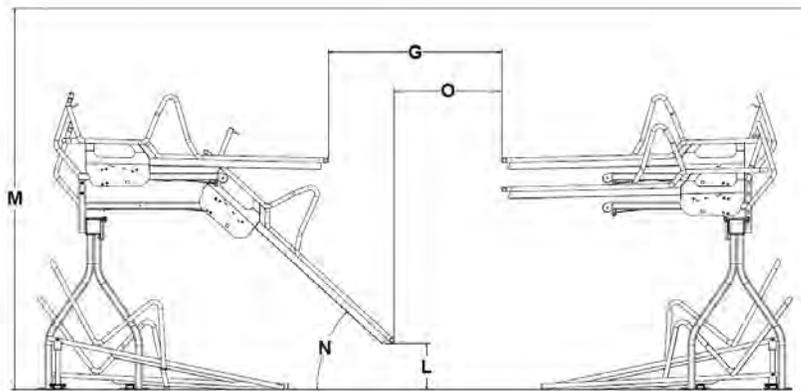
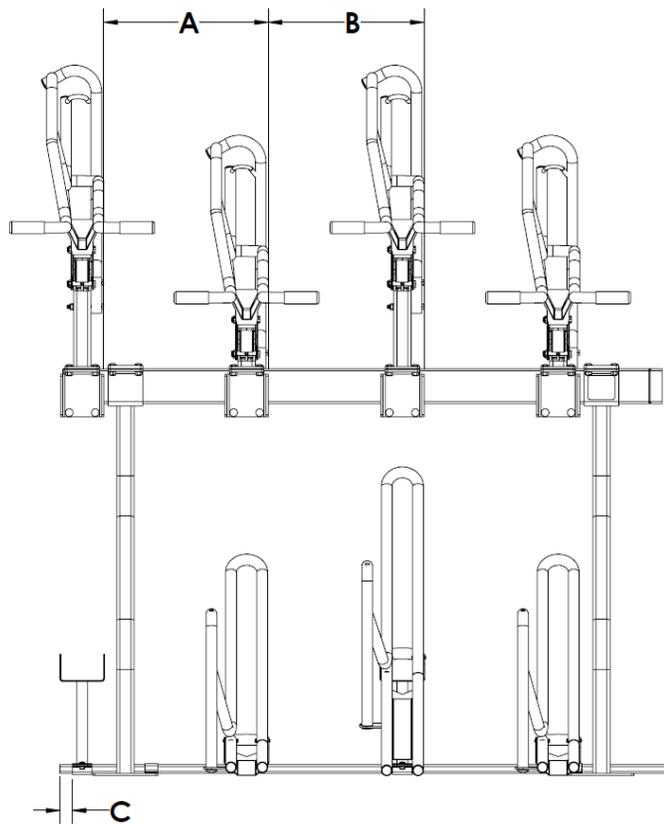


Figure 1

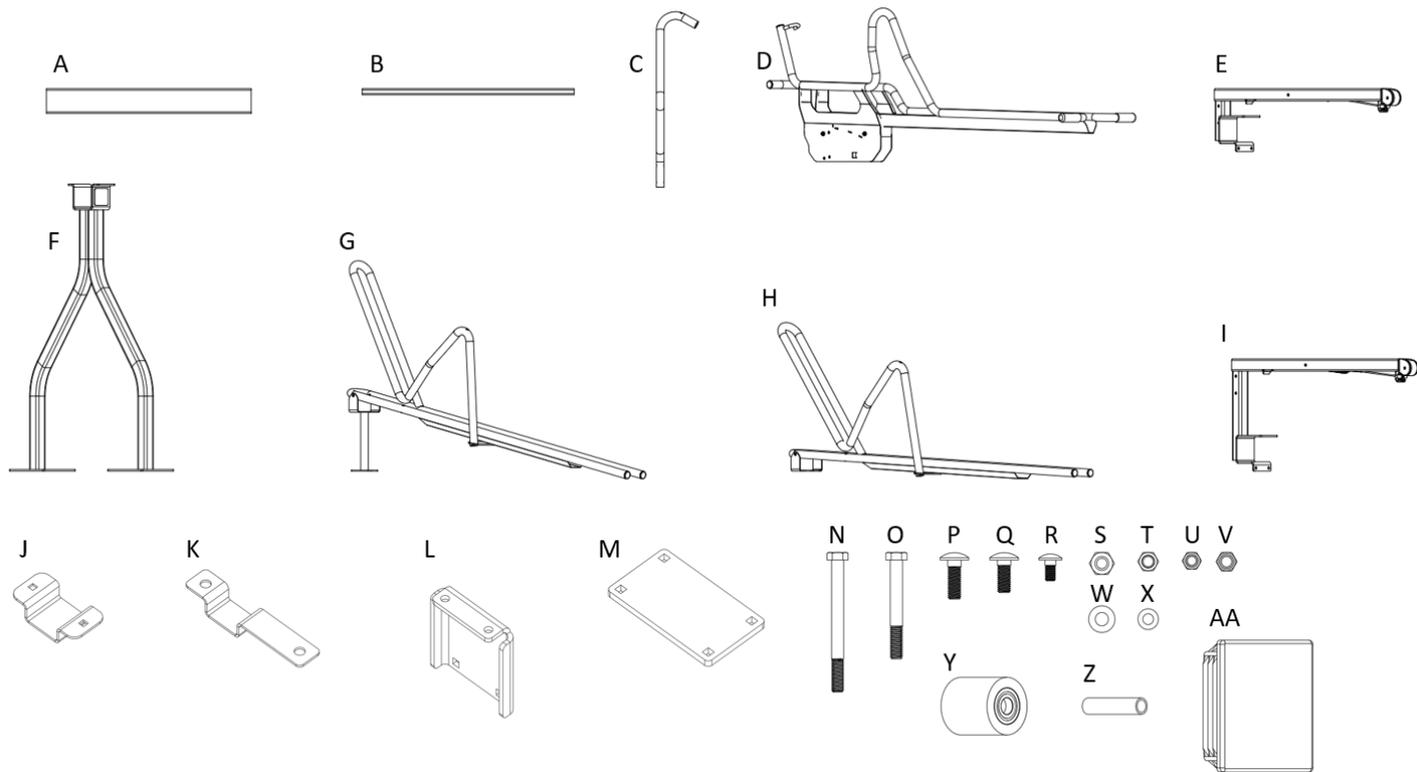


Handlebar Spacing	A	B	C
17" (43.2 cm)	19" (48.3 cm)	17" (43.2cm)	1.47" (3.7 cm)
18" (45.7 cm)	19" (48.3 cm)	18" (45.7 cm)	1.47" (3.7 cm)
24" (61.0cm)	24" (61.0 cm)	24" (61.0cm)	1.47" (3.7 cm)

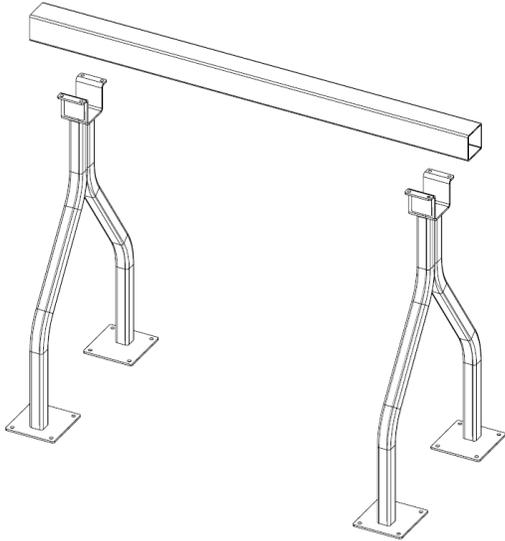
Left most Upper Mounting tube should be flush to the end of the Upper Crossbeam to set up proper spacing.

Figure 2

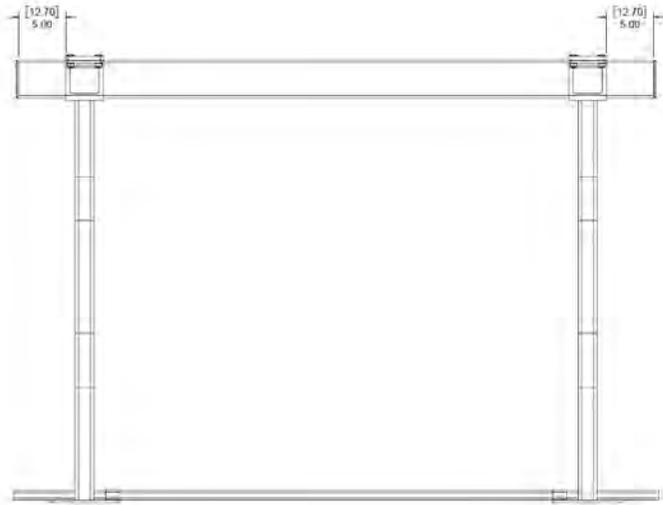
Parts List

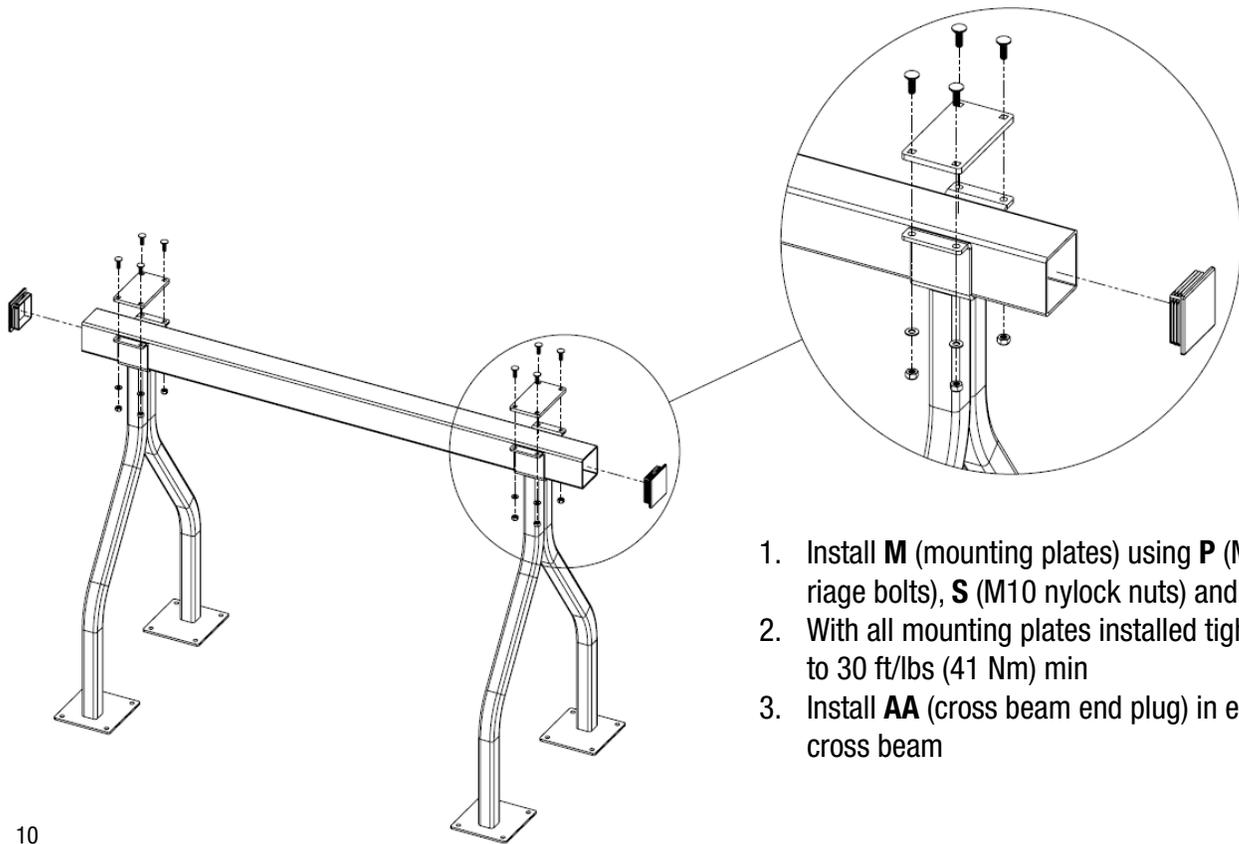


Frame Assembly



Install **A** (upper cross beam) into **F** (frame uprights).
The beam should overhang the mounting brackets by
5 inches (12.7cm).



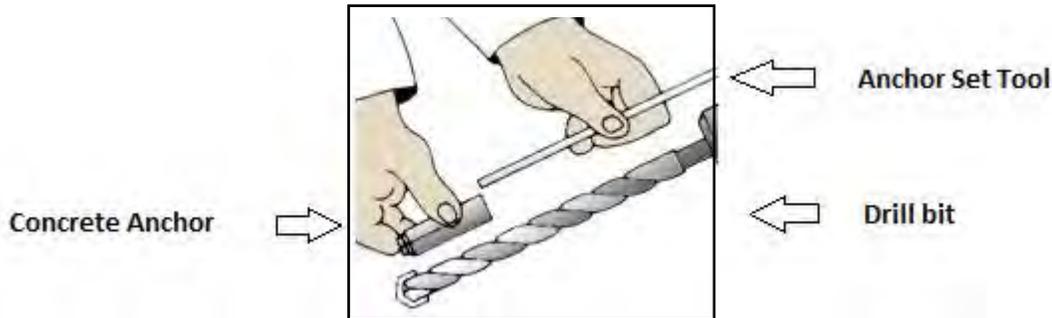


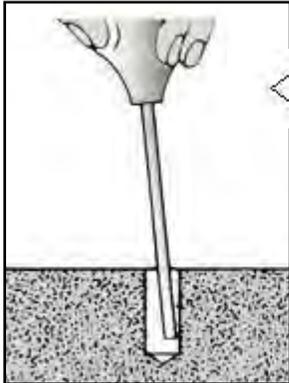
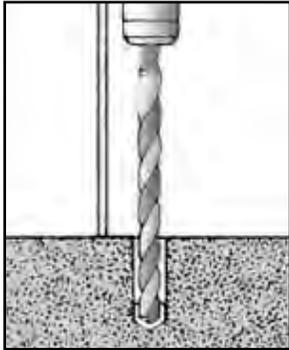
1. Install **M** (mounting plates) using **P** (M10 x 30mm carriage bolts), **S** (M10 nylock nuts) and **W** (washers).
2. With all mounting plates installed tighten bolts evenly to 30 ft/lbs (41 Nm) min
3. Install **AA** (cross beam end plug) in either end of upper cross beam

Anchor Installation

***DO NOT THROW AWAY THE PENTA SOCKET AFTER COMPLETING THE INSTALLATION. YOU WILL NEED IT TO REMOVE THE EQUIPMENT IF THAT IS NECESSARY.**

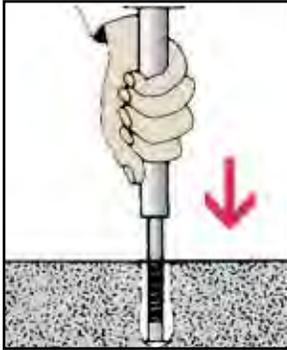
1. Place the rack in the desired location (see setbacks document). Use a marker or pencil to outline the holes of the flange onto the base material. We recommend checking the hole locations after each new anchor is placed. Ensure the holes are at least 6" away from any cracks in the base material.
2. The concrete anchor (a.k.a "drop in anchor") is a female anchor designed for use in solid concrete only and cannot be used in brick or block base material. The anchor size is designated by the inside diameter of the anchor. The diameter of the hole to be drilled is the same size as the outside diameter of the anchor which is $\frac{1}{2}$ ".
3. When fastening to solid concrete with a drop in anchor, a hole must first be drilled into the concrete. A hammer drill should be used as it will drill the best quality hole. Once the bit is inserted into the hammer drill, the depth of the hole to be drilled can easily be set by using the depth gauge on the drill or by wrapping the bit with tape at the required depth. We recommend a drill depth of 1-5/8" deep so that the anchor just sets down flush with the surface.



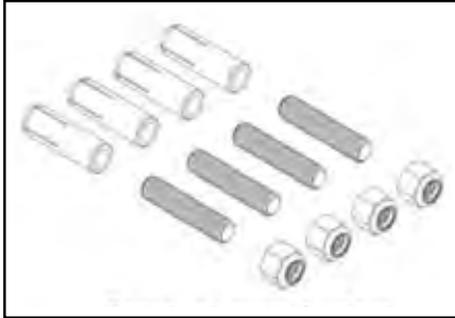


Tool to remove debris
after drilling holes.
Installer provides.

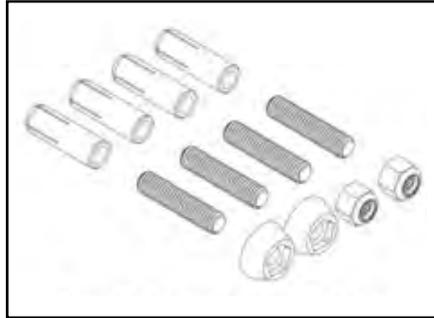
4. Before starting to drill the hole, it is important that eye and ear protection are used. Make sure the hammer drill is in the hammer mode and start drilling your hole. Continue drilling until the tape on the bit or the drill gauge meets the base material- this means that the required depth has been reached.
5. Before proceeding with installation, the hole must be cleaned of all concrete dust to ensure proper fastening. Use a wire brush, a vacuum or compressed air to clean out the hole completely.



- Next, insert the drop in anchor with the open side up. Tap lightly to get the anchor flush with the base material.
- Now, take the setting tool and insert it into the anchor. Strike the setting tool with the hammer several times until the set tool no longer moves down. This will ensure the anchor is properly set.
- Place the rack over the anchors. For temporary installation, you will be using 4 Nylock nuts w/ 4 studs.

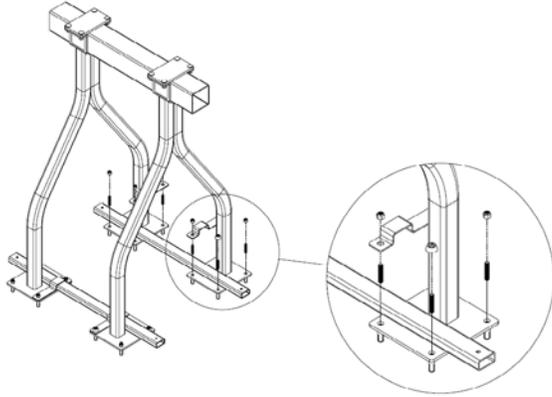


Temporary mount hardware

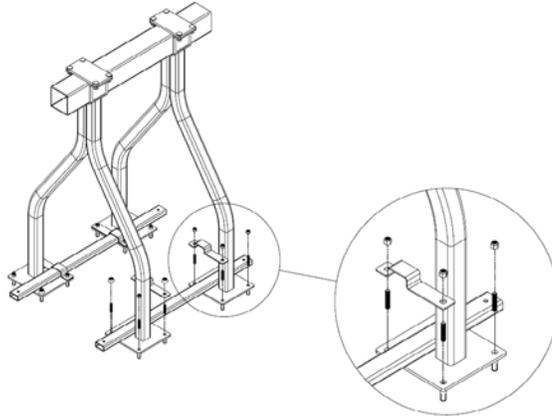


Temporary secure mount hardware

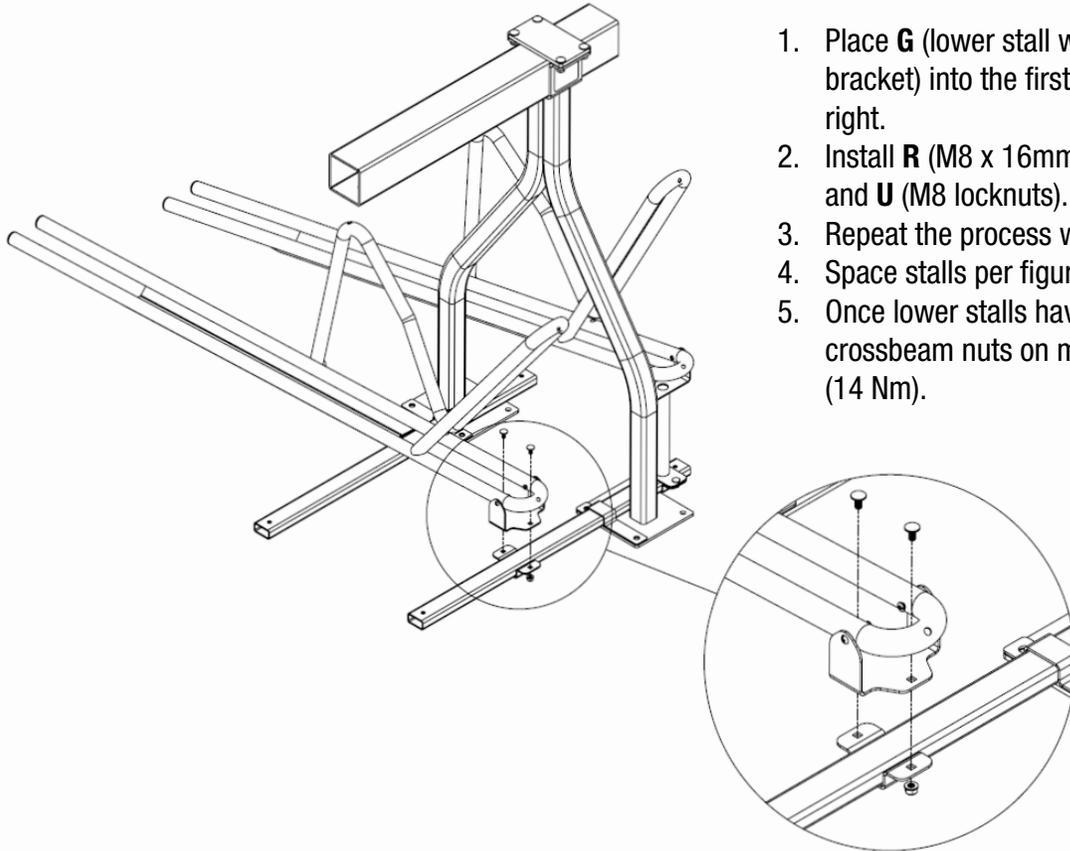
For temporary secure installation, you will be using 2 Nylock nuts and 2 Penta nuts w/ 4 studs. Be sure to alternate between Penta nuts and Nylock nuts. You will thread the studs into the anchors before installing the Penta nuts and Nylock nuts.



1. Once drop in anchors are installed install studs and nuts but leave **K** (lower cross beam tie down) and **B** (lower cross beam) loose until lower trays are installed.
2. Above image depicts temporary secure install kit, below image depicts temporary install kit.



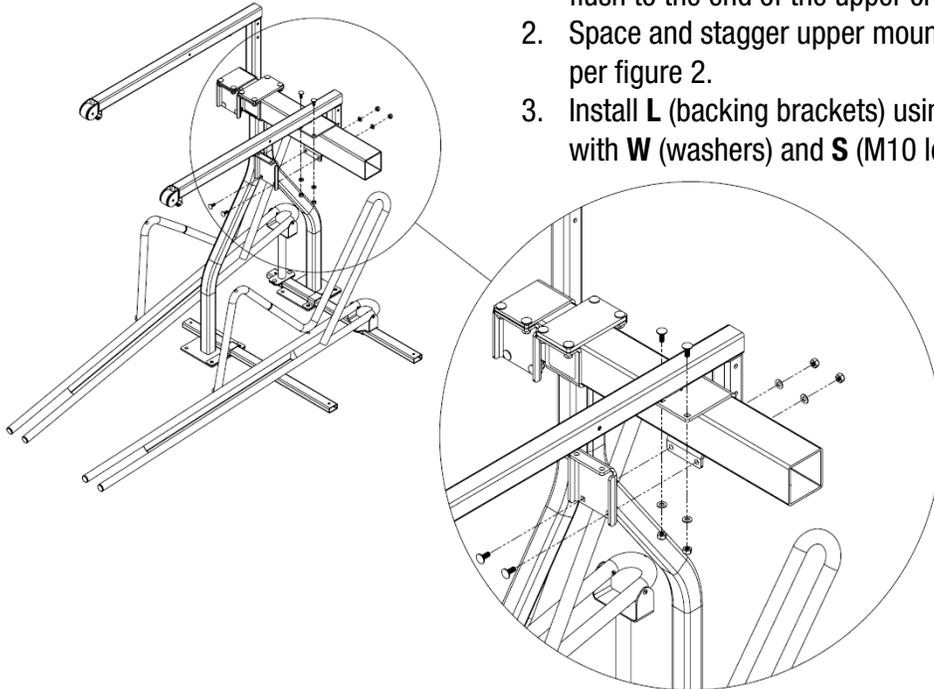
Lower Stall Installation



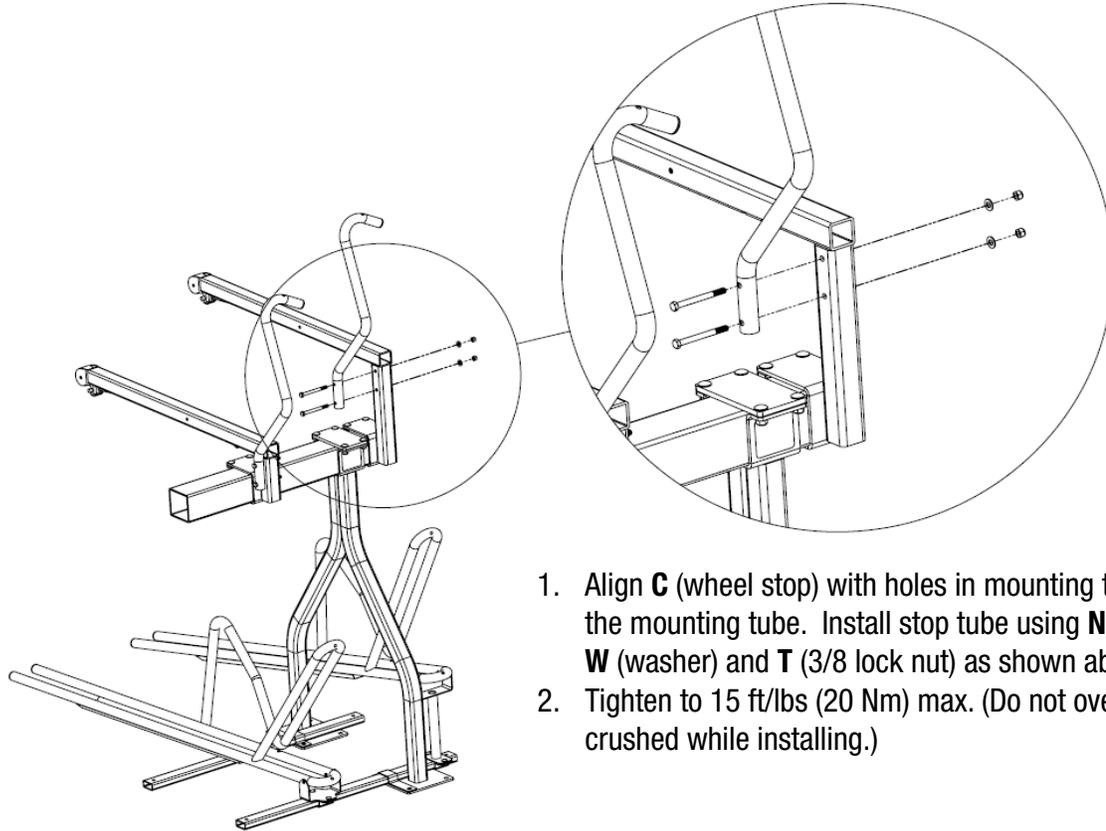
1. Place **G** (lower stall with riser) and **J** (lower mounting bracket) into the first bike position working from left to right.
2. Install **R** (M8 x 16mm carriage bolts) with **X** (washers) and **U** (M8 locknuts). Tighten to 8 ft/lbs (11 Nm)
3. Repeat the process with **H** (lower stall without riser).
4. Space stalls per figure 2.
5. Once lower stalls have been installed tighten lower crossbeam nuts on mounting studs, tighten to 10 ft/lbs (14 Nm).

Roller Beam Installation

1. Align **E** and **I** (upper mounting tubes) directly above lower stall. The high mount (**I**) and low mount (**E**) must correspond with the high and low mounted lower stalls. The first mounting tube bracket should be flush to the end of the upper cross beam.
2. Space and stagger upper mounting tubes on the upper cross beam per figure 2.
3. Install **L** (backing brackets) using **Q** (M10x25mm carriage bolts) with **W** (washers) and **S** (M10 locknuts). Tighten to 30 ft/lbs (41 Nm).

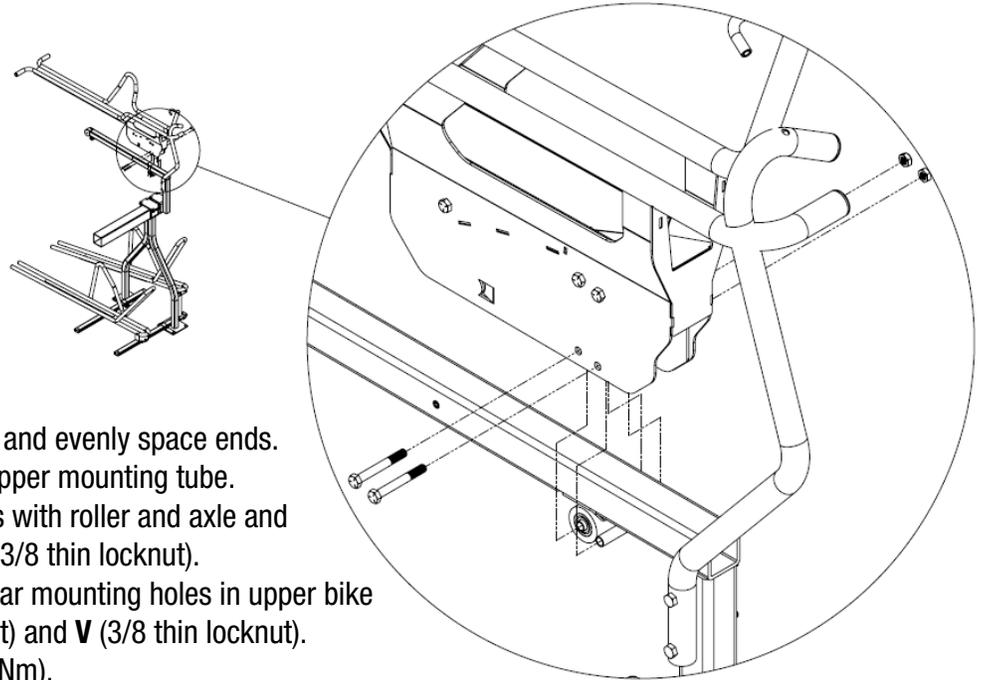


Wheel Stop Installation



1. Align **C** (wheel stop) with holes in mounting tubes on the right side of the mounting tube. Install stop tube using **N** (3/8 x 4.0" bolt) with **W** (washer) and **T** (3/8 lock nut) as shown above.
2. Tighten to 15 ft/lbs (20 Nm) max. (Do not overtighten or tube could be crushed while installing.)

Upper Stall Installation



1. Slide **Z** (steel axle) into **Y** (roller) and evenly space ends.
2. Place **D** (upper bike stall) onto upper mounting tube.
3. Align lower front mounting holes with roller and axle and install **O** (3/8 x 3.0" bolt) and **V** (3/8 thin locknut).
4. Align **Z** (steel axle) with lower rear mounting holes in upper bike stall and install **O** (3/8 x 3.0" bolt) and **V** (3/8 thin locknut).
5. Tighten locknuts to 15 ft/lbs (20Nm).
6. Repeat for remainder of upper bike stalls
7. When installation is complete, pull out upper bike stalls to ensure smooth and free movement.

WARNING: Manufacturer and seller expressly disclaim any and all liability for personal injury, property damage or loss, whether direct, indirect, or incidental, resulting from the incorrect attachment or inappropriate placement, improper use, inadequate maintenance, or neglect of this product. Placement of this product is beyond control of the manufacturer. It is the end users reasonability to place this product so as to avoid potential pedestrian or playground accidents.

WARRANTY: We warrant this product to the first consumer to be free from defect in material and workmanship for a period of one year from date of purchase. Please retain your sales slip for your records. Any product or part thereof found to be defective within that period will be replaced without charge provided that: (1) the product was not misused; (2) no alterations or modifications were made; (3) its failure resulted from a defect in material or workmanship and not from normal wear expected in the use of the product; (4) the product or part is delivered, freight prepaid, to Saris Products. Manufacturer's only obligation shall be to replace such products or parts proved to be defective.

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05/21