

# Stack Rack

## Installation Guide



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# Thanks for purchasing a Saris Stack Rack!

Congratulations on choosing a world-class two-tier bicycle parking system! The Stack Rack was designed and manufactured in the Upper Midwest; the steel comes 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 dual spacing to maximize density and usability. Flexibility in bike spacing, rack configuration, and modular design make this system adaptable to nearly any installation location. Best of all, it's 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 at [sales@sarisinfrastructure.com](mailto:sales@sarisinfrastructure.com) or 800-783-7257 should you need anything.



# Dimensions and Setbacks

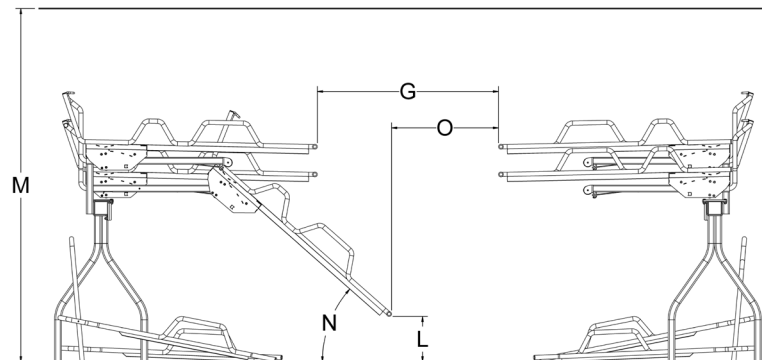
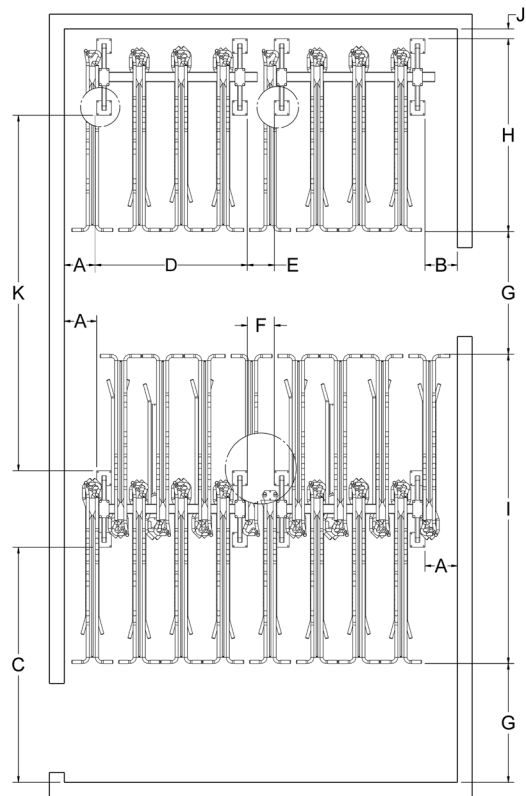
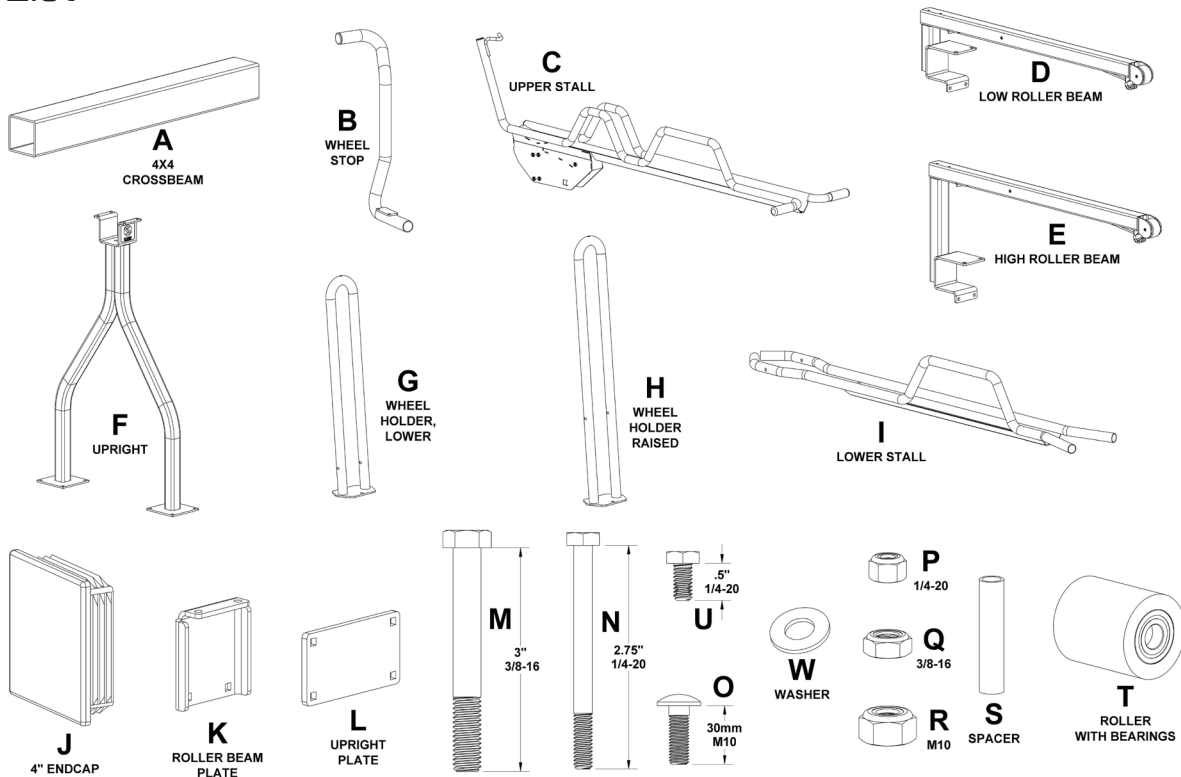


Figure 1

Single-Sided Configuration	"A"	"B"	"D"	"E"	"G"	"H"	"J"	"K"	"L"	"M"	"N"	"O"								
17" Handlebar Spacing 4 Bike	15.5"	5"	27"	9"	48" Min. 72" Recommended	76.5"	2"	142.25" Min. 166.25" Recommended	12" (lower position) 20" (upper position)	104"	42 degrees	26.5" Min. 50.5" Recommended								
17" Handlebar Spacing 6 Bike			44"																	
17" Handlebar Spacing 8 Bike			61"																	
17" Handlebar Spacing 10 Bike			78"																	
17" Handlebar Spacing 12 Bike			95"																	
17" Handlebar Spacing 14 Bike			112"																	
17" Handlebar Spacing 16 Bike			129"																	
18" Handlebar Spacing 4 Bike			27"	10.5"																
18" Handlebar Spacing 6 Bike			44.5"																	
18" Handlebar Spacing 8 Bike			62.5"																	
18" Handlebar Spacing 10 Bike			80.5"																	
18" Handlebar Spacing 12 Bike			98.5"																	
18" Handlebar Spacing 14 Bike			116.5"																	
18" Handlebar Spacing 16 Bike			134.5"	16.5"																
24" Handlebar Spacing 4 Bike			33.5"																	
24" Handlebar Spacing 6 Bike			57.5"																	
24" Handlebar Spacing 8 Bike			81.5"																	
24" Handlebar Spacing 10 Bike			105.5"																	
24" Handlebar Spacing 12 Bike			129.5"																	
30" Handlebar Spacing 4 Bike			40.5"	19.5"						96"										
30" Handlebar Spacing 6 Bike			70.5"																	
30" Handlebar Spacing 8 Bike			100.5"																	
30" Handlebar Spacing 10 Bike			130.5"																	

Double-Sided																						
Configuration	"A"	"C"	"D"	"F"	"G"	"I"		"K"	"L"	"M"	"N"	"O"										
17" Handlebar Spacing 8 Bike	15.5"	95.25" Min. 119.25" Recommended	27"	9"	48" Min. 72" Recommended	122.75"		142.25" Min. 166.25" Recommended	12" (lower position) 20" (upper position)	104"	42 degrees	26.5" Min. 50.5" Recommended										
17" Handlebar Spacing 12 Bike			44"																			
17" Handlebar Spacing 16 Bike			61"																			
17" Handlebar Spacing 20 Bike			78"																			
17" Handlebar Spacing 24 Bike			95"																			
17" Handlebar Spacing 28 Bike			112"																			
17" Handlebar Spacing 32 Bike			129"																			
18" Handlebar Spacing 8 Bike			27"																			
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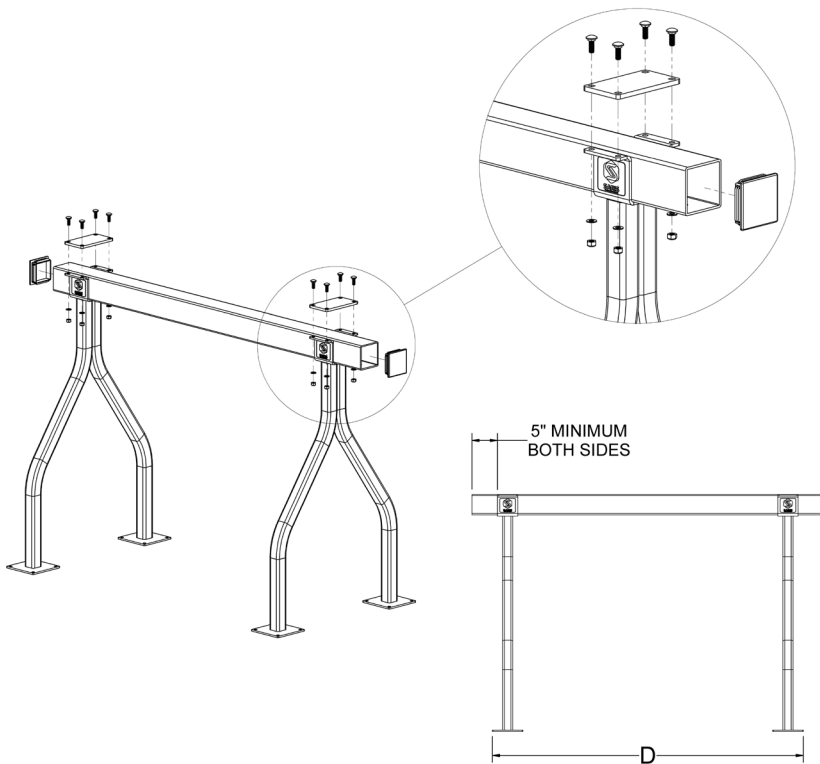
# Parts List



## Frame Assembly

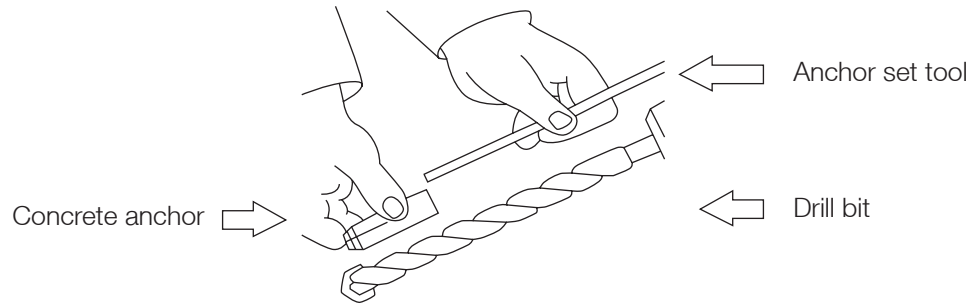
Install **A** (upper cross beam) into **F** (frame uprights). The beam should overhang the mounting brackets by a minimum of 5 inches (12.7 cm).

1. Install **L** (upright plates) using **O** (M10 x 30mm carriage bolts), **R** (M10 Nyloc nuts) and **W** (washers).
2. With all mounting plates installed, tighten bolts evenly to 30 ft/lb (41 Nm) min.
1. Install **J** (4" end cap) in either end of upper cross beam.

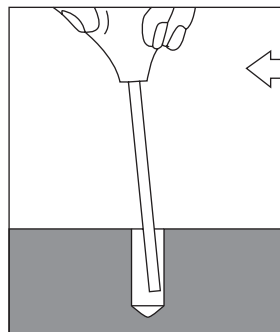
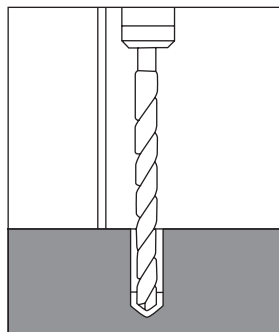


**\*DO NOT THROW AWAY THE PENTA SOCKET AFTER COMPLETING THE INSTALLATION.  
YOU WILL NEED IT TO REMOVE THE EQUIPMENT IF THAT IS NECESSARY.**

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 determined 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 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.

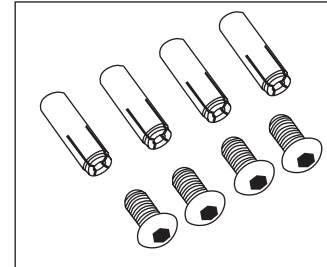
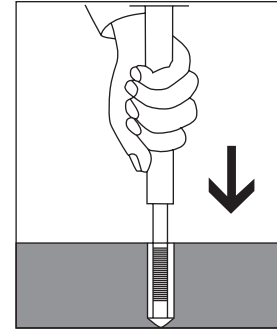


1. Before starting to drill the hole, it is important that eye and ear protection are used. Make sure the hammer drill is in the hammer mode and start drilling your hole. Continue drilling until the tape on the bit or the drill gauge meets the base material- this means that the required depth has been reached.
2. 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.



*Tool to remove  
debris after  
drilling holes.  
Installer  
provides.*

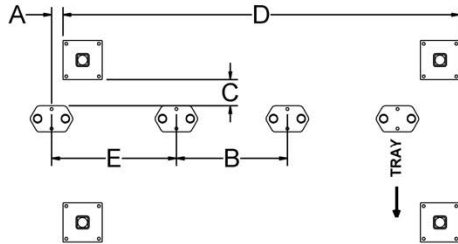
1. Next, insert the drop in anchor with the open side up. Tap lightly to get the anchor flush with the base material.
2. Now, take the setting tool and insert it into the anchor. Strike the setting tool with the hammer several times until the set tool no longer moves down. This will ensure the anchor is properly set.
3. Place the rack frame and hairpins over the anchors. Tighten down using included Nyloc nuts.



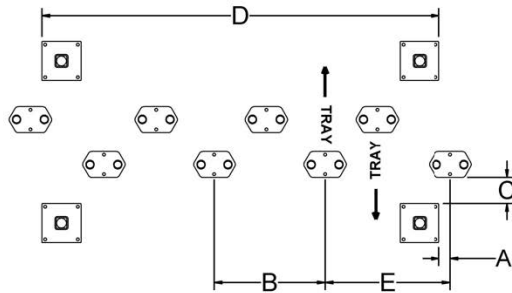
*Temporary mount hardware*

## Lower Tier Bike Spacing

### Single-Sided Configuration

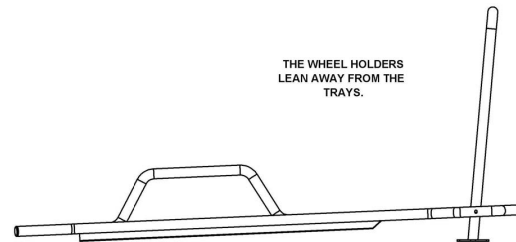


### Double-Sided Configuration



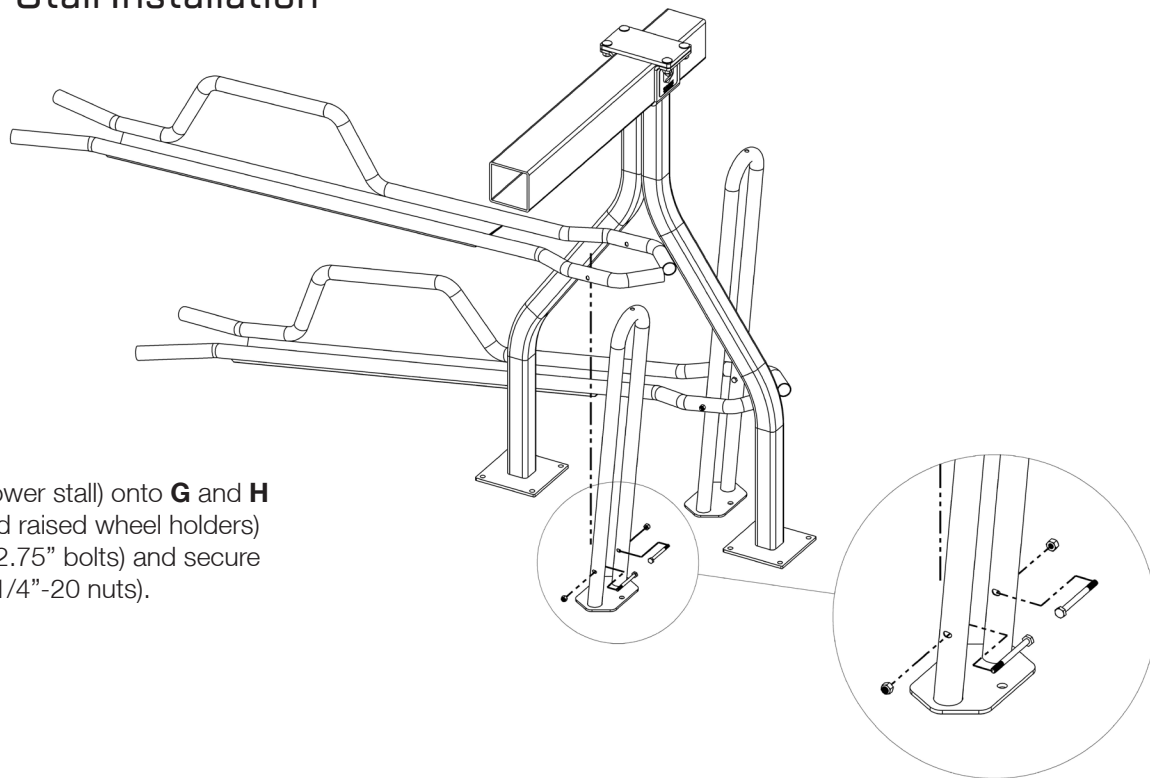
Bike Spacing	A	B	C	D	E
17"	1.75"	17"	4"	SEE Dimensions Table	19.25"
18"	10"	18"	4"		19.25"
24"	24"	24"	4"		24"

- Lay out wheel holders (parts **G** and **H**) along floor, matching spacing for desired configuration and bike spacing.
  - Alternate between parts **G** and **H** if using a staggered configuration or use **G** for all positions in a flat configuration.
- Anchor in place using same steps used for anchoring uprights.



## Lower Stall Installation

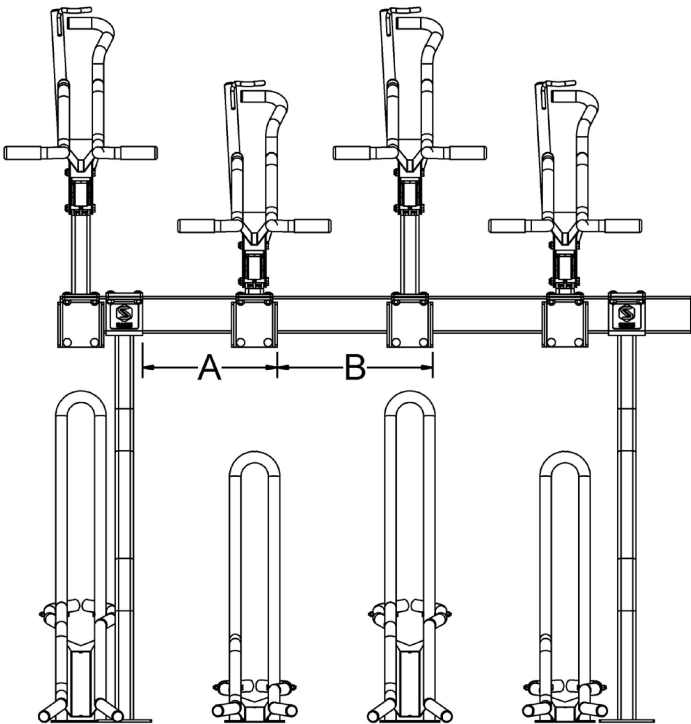
Install **I** (lower stall) onto **G** and **H**  
(lower and raised wheel holders)  
using **N** (2.75" bolts) and secure  
using **P** (1/4"-20 nuts).



# Upper Tier Bike Spacing

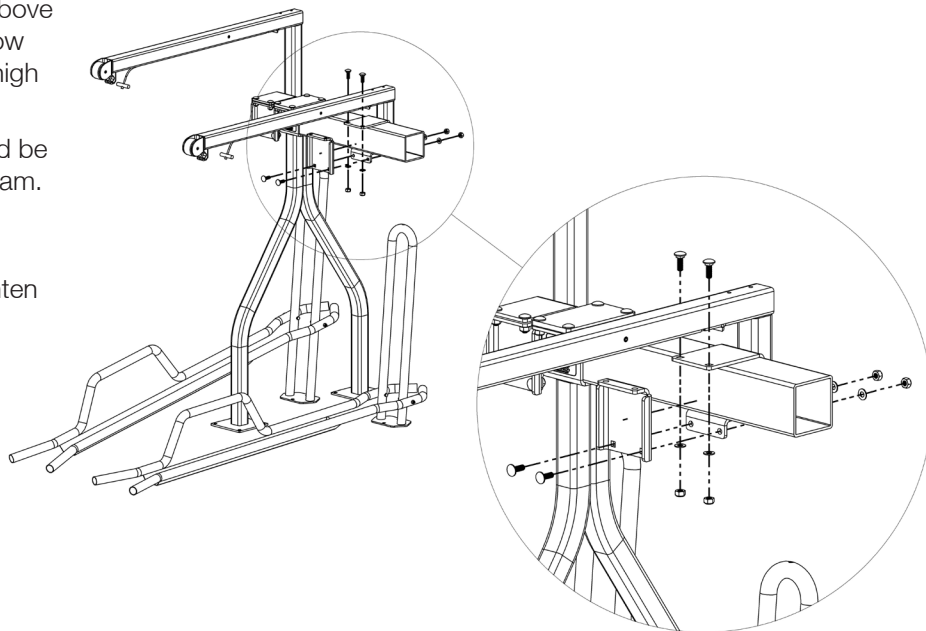
Bike Spacing	A	B
17"	10"	17"
18"	10"	18"
24"	24"	24"

Left most upper mounting tube should be flush to the end of the upper crossbeam to set up proper spacing.



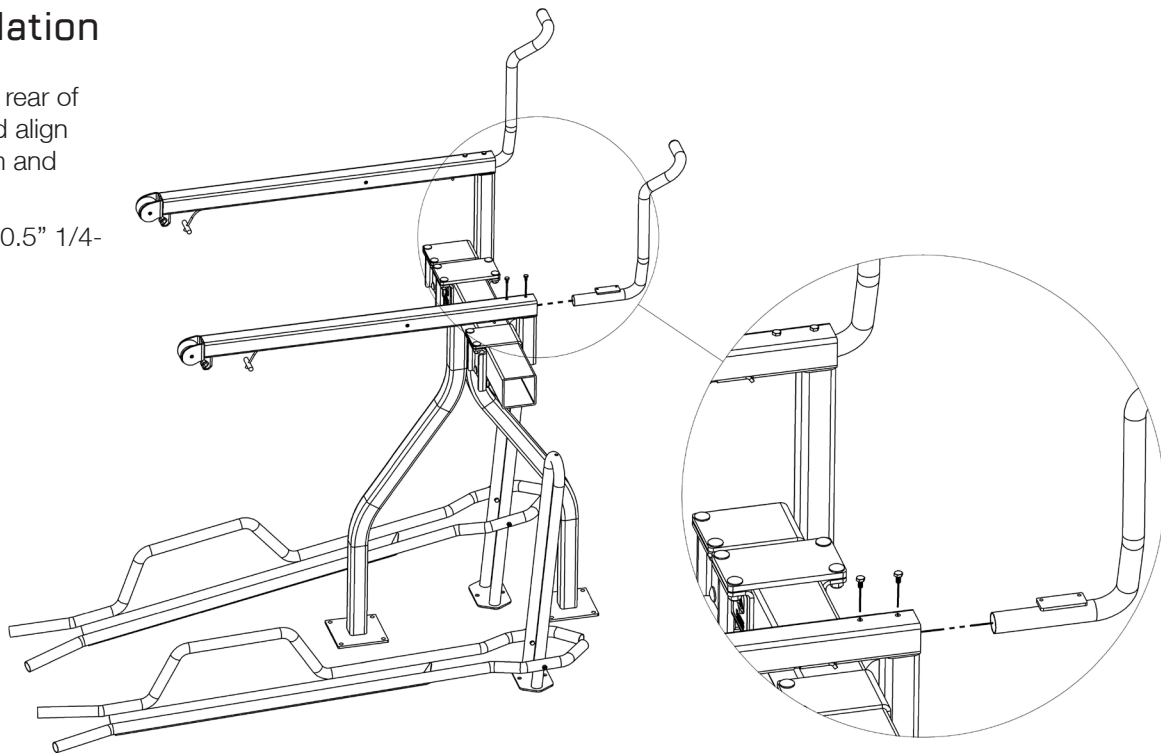
## Roller Beam Installation

1. Align **D** and **E** (roller beams) directly above lower stalls. The high mount (**E**) and low mount (**D**) must correspond with the high and low mounted lower stalls.
2. The first mounting tube bracket should be flush to the end of the upper cross beam.
3. Install **K** (roller beam plate) using **O** (M10x30mm carriage bolts) with **W** (washers) and **R** (M10 lock nuts). Tighten to 30 ft/lbs (41 Nm).



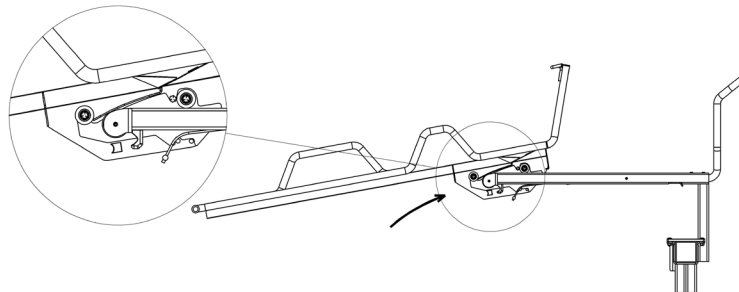
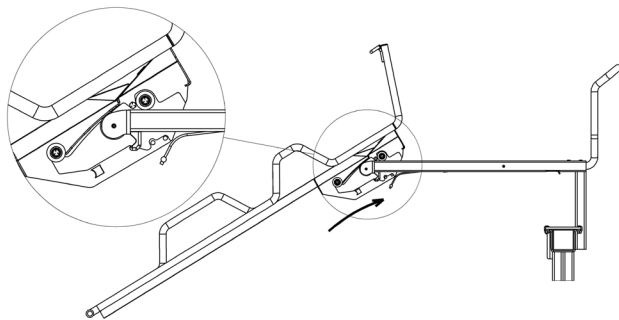
## Wheel Stop Installation

1. Insert **B** (wheel stop) into rear of roller beam (**D** and **E**) and align holes on both roller beam and wheel stop plate.
1. Secure in place using **U** (0.5" 1/4-20 bolts).

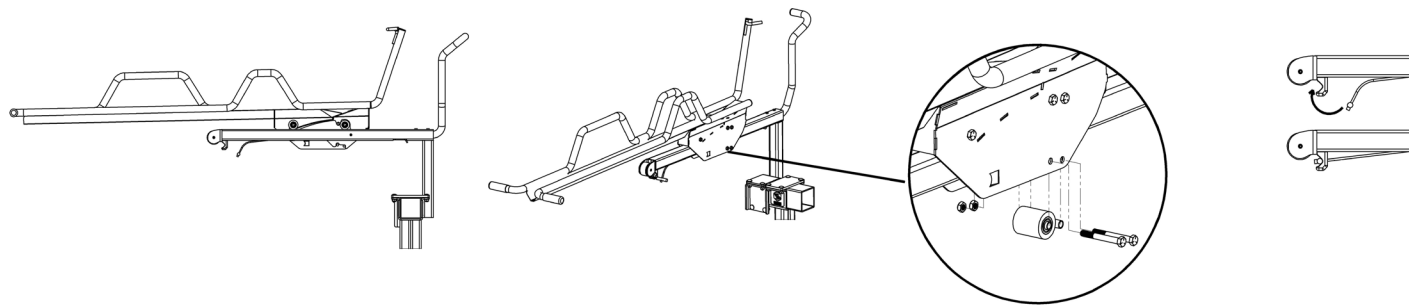


## Upper Stall Installation

1. Slide **S** (spacer) into **T** (roller) and evenly space ends.
2. Place **C** (upper stall) onto roller beam (**D** and **E**).



## Upper Stall Installation (continued)



1. Align lower front mounting holes with roller and spacer and install **M** (3/8 x 3.0" bolt) and **Q** (3/8 thin locknut).
2. 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).
3. Tighten locknuts to 15ft/lbs (20Nm).
4. With upper stall pushed fully inwards, set roller beam spring cable in place by pulling out and placing into cable notch.
5. When installation is complete, pull out upper bike stalls to ensure smooth and free movement and that cable engages.

# WARRANTY

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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