



Atoc Inc.
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Lynnwood, WA 98087

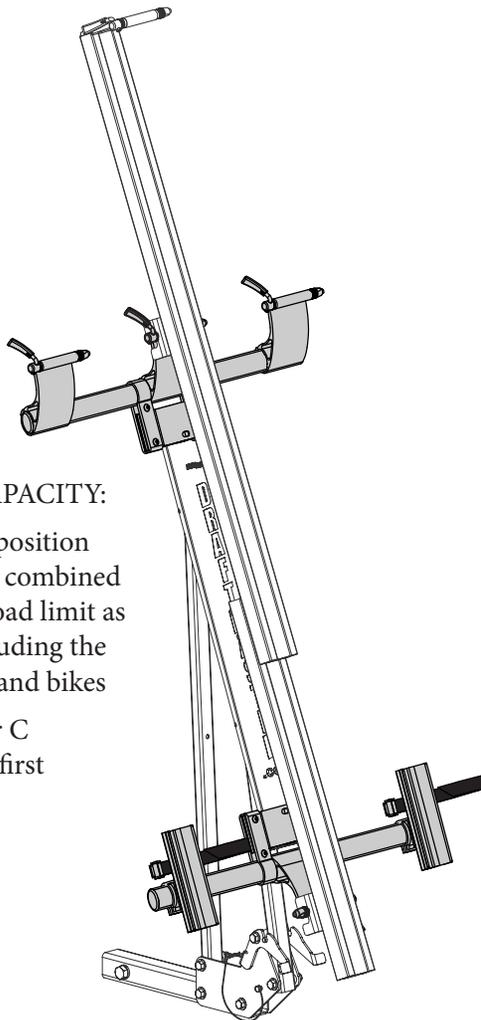
(425) 745-2131
www.Atoc.com



CROSS ARM ASSEMBLY

CAA-xxxx-yyzz

Assembly and Operation



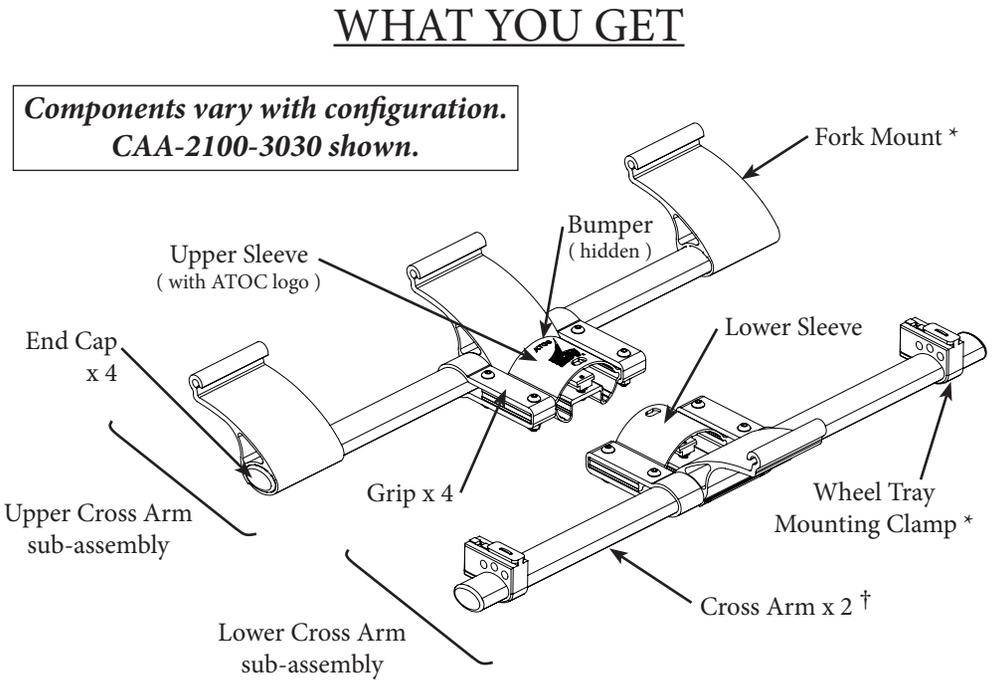
MAXIMUM WEIGHT CAPACITY:

- A) 50 lbs (22.75 kg) per bike position
- B) 150 lbs (68.25 kg) all bikes combined
- C) ½ your receiver's tongue load limit as rated for your vehicle, including the weight of the Draftmaster and bikes

Your limit is A, B, or C whichever is reached first

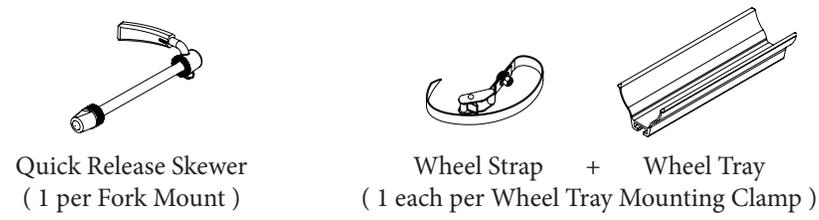
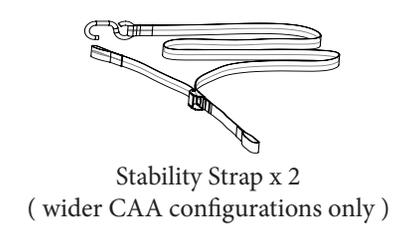
NOTE:

Clear parts are shown for reference and are provided with other modules



* *Quantity varies with configuration. Some configurations do not have wheel trays.*

† *Upper & lower cross arms may be different lengths.*



TOOLS NEEDED



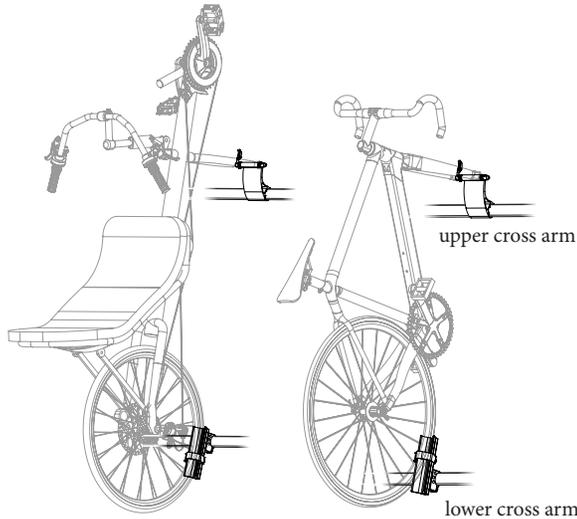
CROSS ARM HARDWARE BY BIKE TYPE

CAA-Xxxx-yyzz

Traditional singles &
short recumbents
under 48 inch wheelbase

Upper cross arm:
1 fork mount

Lower cross arm:
1 wheel tray assembly



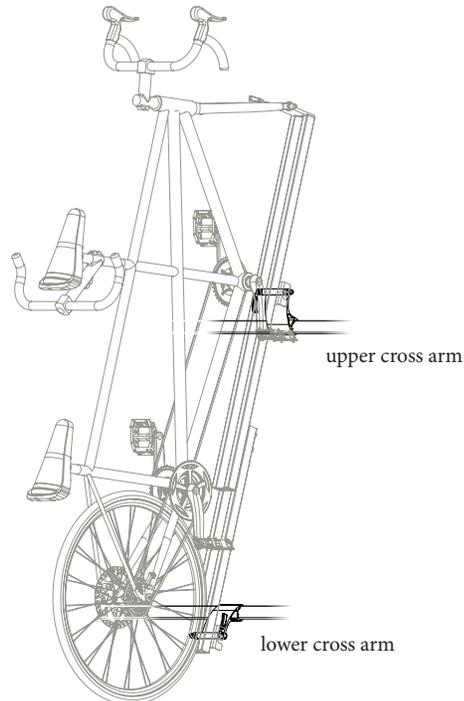
CAA-xXxx-yyzz

Tandems &
long recumbents
over 48 inch wheelbase

Upper cross arm:
1 fork mount

Lower cross arm:
1 fork mount

Also requires use of a
Specialty Rail module



CROSS ARM HARDWARE BY BIKE TYPE

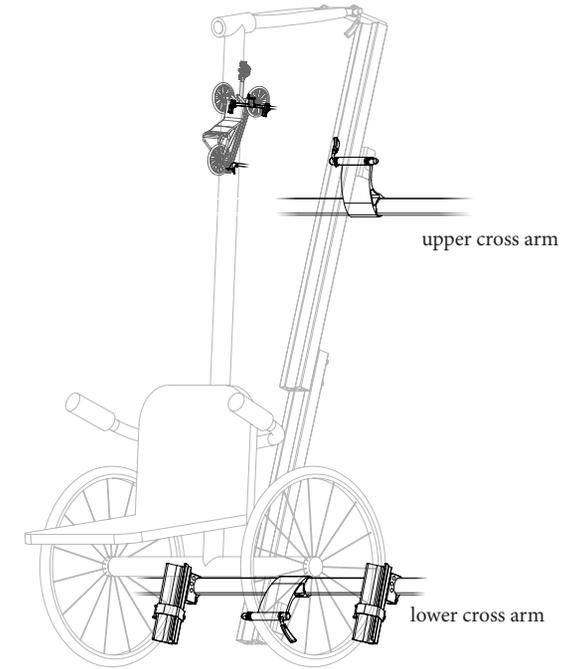
CAA-xxXx-yyzz

Delta trikes
over 48 inch wheelbase

Upper cross arm:
1 fork mount

Lower cross arm:
1 fork mount
2 wheel tray assemblies

Also requires use of a
Specialty Rail module



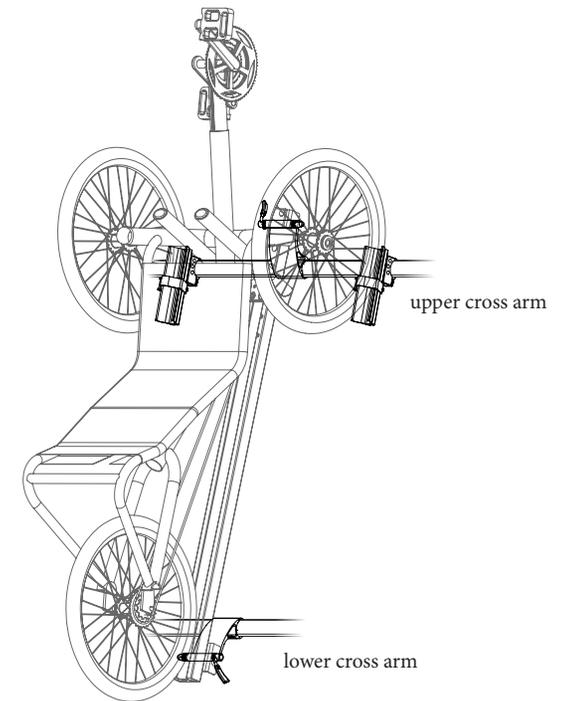
CAA-xxxX-yyzz

Tadpole trikes

Upper cross arm:
1 fork mount
2 wheel tray assemblies

Lower cross arm:
1 fork mount

Also requires use of a
Specialty Rail module

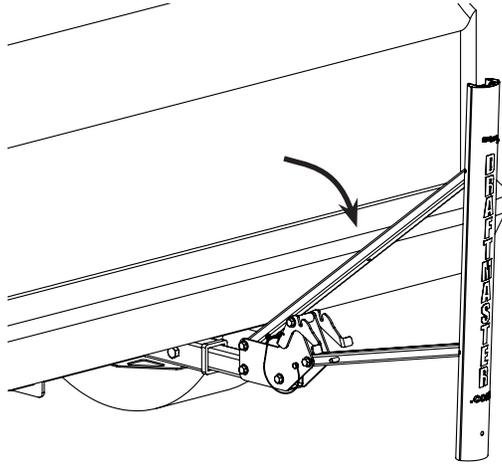


INSTALLATION

We recommend installing the Cross Arm Assembly on the Interconnect before assembling the minor components.

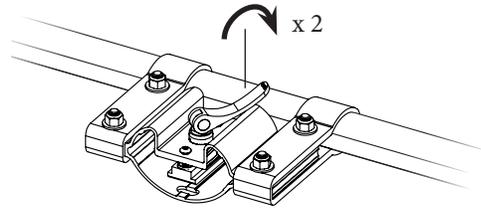
Step 1:

Mount the Interconnect into your vehicle's receiver and lower the Interconnect. See the Interconnect companion manual for details.



Step 2:

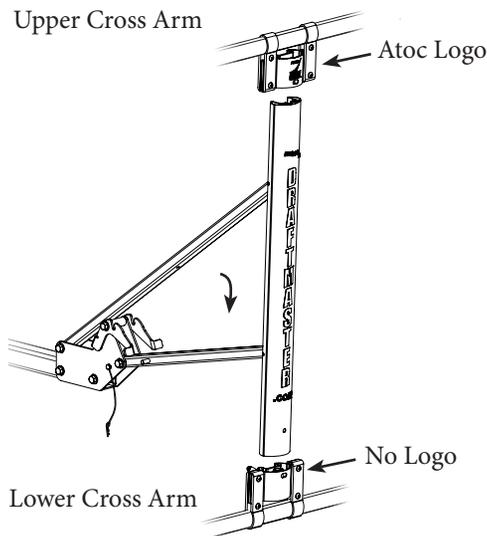
Open the quick release levers on the back of both cross arm sleeves.



Step 3:

Slide cross arm sleeves onto the Interconnect spine.

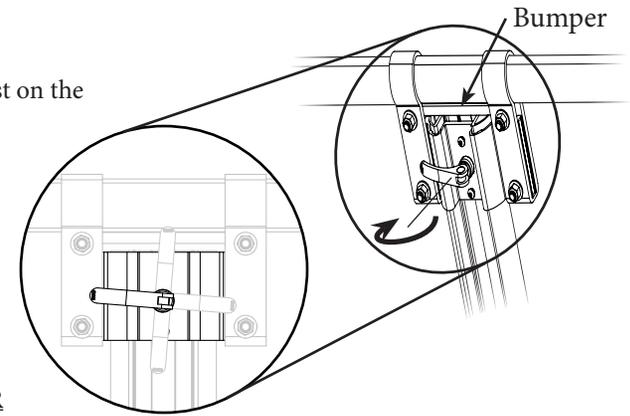
The upper cross arm has the Atoc decal.



Step 4:

The upper Cross Arm will rest on the Bumper bar.

Adjust the quick release lever to provide a tight clamping force on the Spine. Choose a vertical or horizontal lever position and close cam lever.



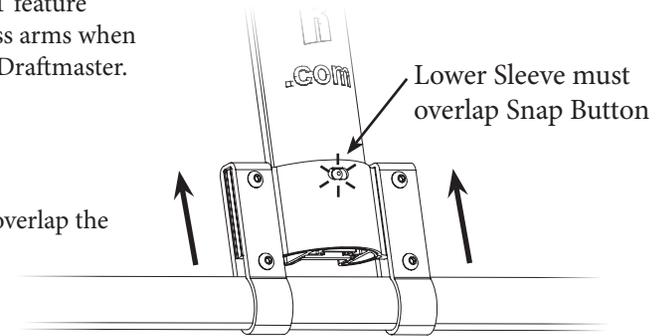
REMEMBER

You can use this QUICK CONNECT feature to easily remove the cross arms when you are not using your Draftmaster.

Step 5:

The lower Cross Arm must overlap the snap button on the Spine.

Adjust and close the quick release lever.

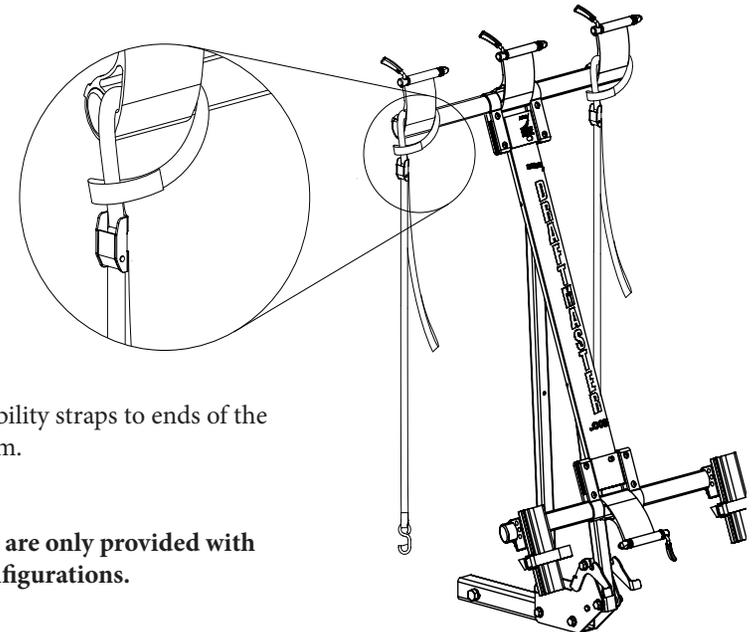


Step 6:

Attach both Stability straps to ends of the upper Cross Arm.

Note:

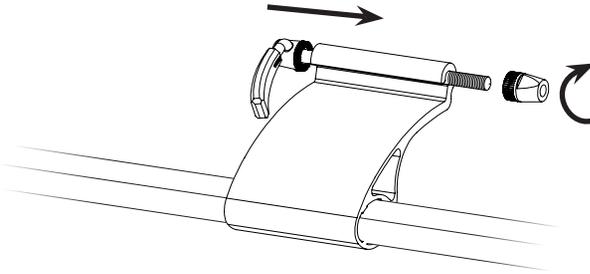
Stability Straps are only provided with wider CAA configurations.



ASSEMBLY

Step 1:

Place Quick Release Skewer in fork mount.
Install nut.



Step 2:

Note: Some configurations do not have wheel trays.

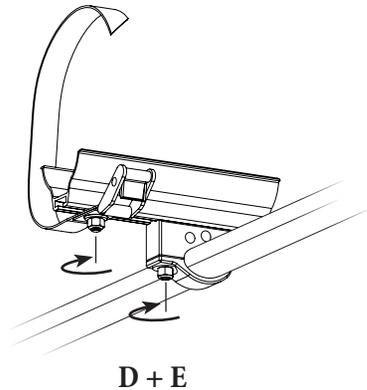
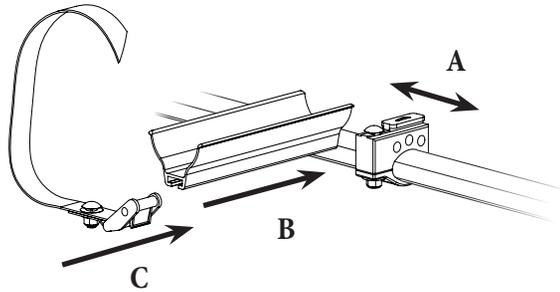
A. Position the mounting clamp right-left as needed to capture the wheel of your bicycle.

B. Slide the wheel tray onto the mounting clamp. The tray's T slot should engage the clamp T and the head of the clamp bolt.

C. Slide the wheel strap's mounting bolt head into the tray's T slot.

D. Tighten the clamp nut and wheel strap nut.

E. Verify that the right-left and up-down position of the tray and strap are correct for your bicycle. Reposition as needed.



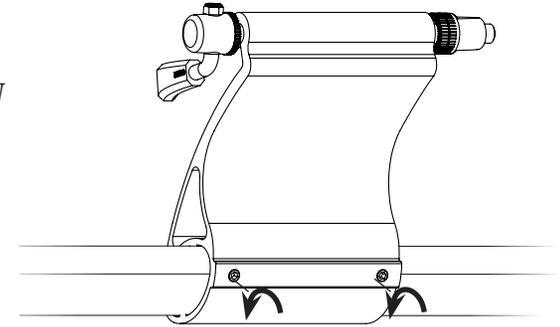
FORK MOUNT POSITIONS

ALL BICYCLES SHOULD ALWAYS BE MOUNTED FRONT END UP ON A DRAFTMASTER.

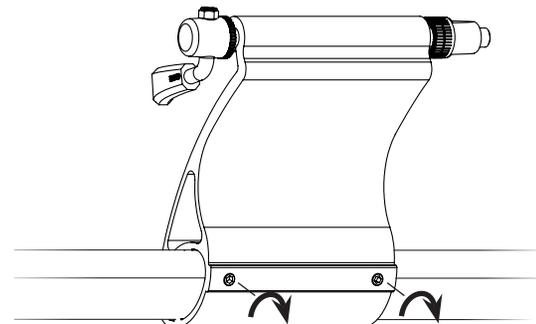
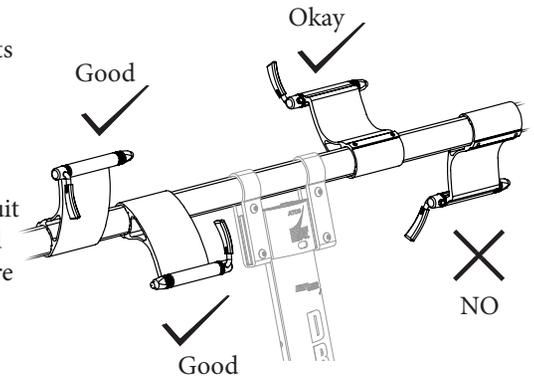
We position your fork mounts at the factory in the right-left position and up-down orientation that is most likely to work for your combination of bicycles.

A few configurations may require a different fork mount orientation for shipping purposes. These fork mounts will be marked to indicate that you need to re-position them.

You may adjust the fork mounts to suit your preferences, but we recommend that you try the factory settings before making changes.



Loosen the set screws using a 1/8 inch hex wrench.



Tighten the set screws using a 1/8 inch hex wrench.

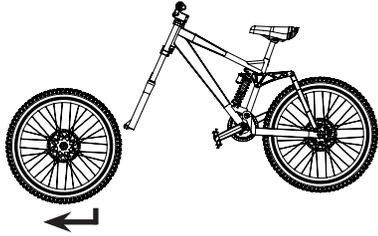
Check resulting bike fit for fork interference, ground clearance, and nesting clearance with adjacent bicycles.

OPERATION

BIKES & TRIKES WITHOUT A SPECIALTY RAIL

Step 1:

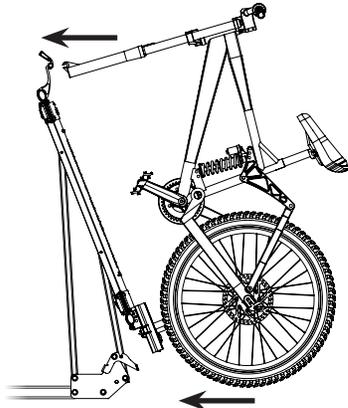
Remove front wheel.



Step 2:

Place the front fork of the bike onto the Quick Release Skewer of the Fork Mount.

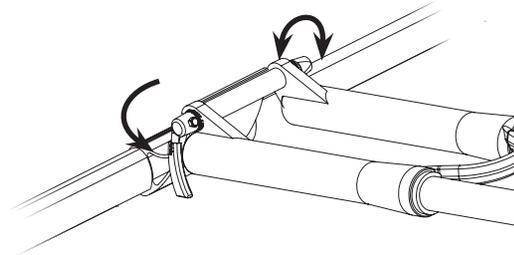
Place rear wheel in wheel tray.



Step 3:

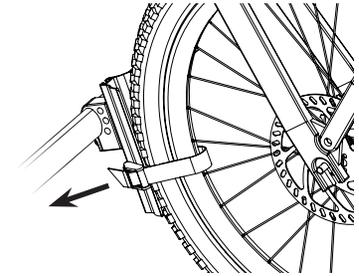
Make sure the fork is fully seated on the Quick Release Skewer and close the skewer's cam lever.

Adjust skewer nut as needed to create sufficient clamping force. This is achieved when a distinct impression in the palm of your hand is made by the lever when you close the skewer.



Step 4:

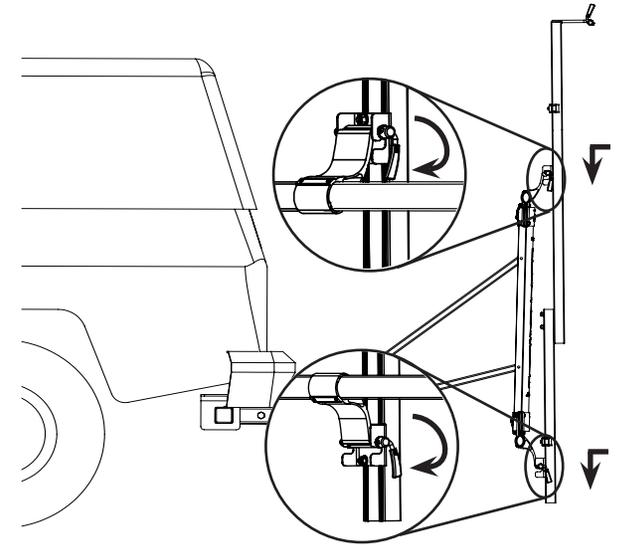
Secure the rear wheel in the wheel tray using the wheel strap.



SPECIALTY BIKES & TRIKES REQUIRING A SPECIALTY RAIL

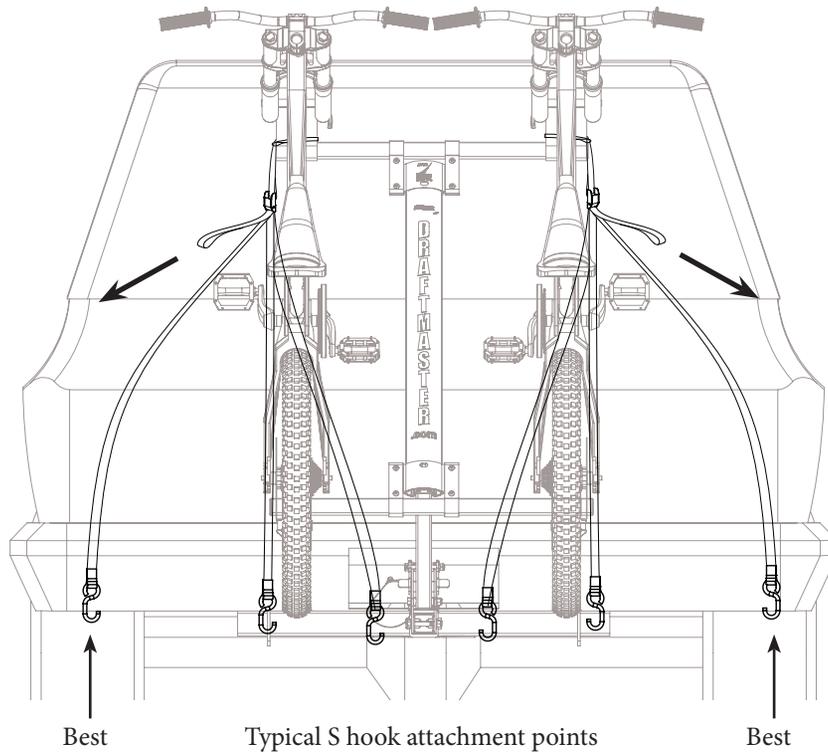
Typical mounting of a Specialty Rail is illustrated here.

See the Specialty Rail companion manual for your Drafmaster configuration for additional details.



WARRANTY

USING THE STABILITY STRAPS



Only attach the Stability Strap's S hooks to solid connection points like metal bumpers and tow hooks.

DO NOT attach the S hooks to a plastic or fiberglass bumper facade.

See specialty rail companion manuals for instructions to mount tandems, trikes, or long wheel base recumbents and bikes.

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