



Atoc Inc.
3615 132nd St SW, Ste C
Lynnwood, WA 98087

(425) 745-2131
www.Atoc.com



SPECIALTY RAIL

S63 S76 S84

Assembly and Operation

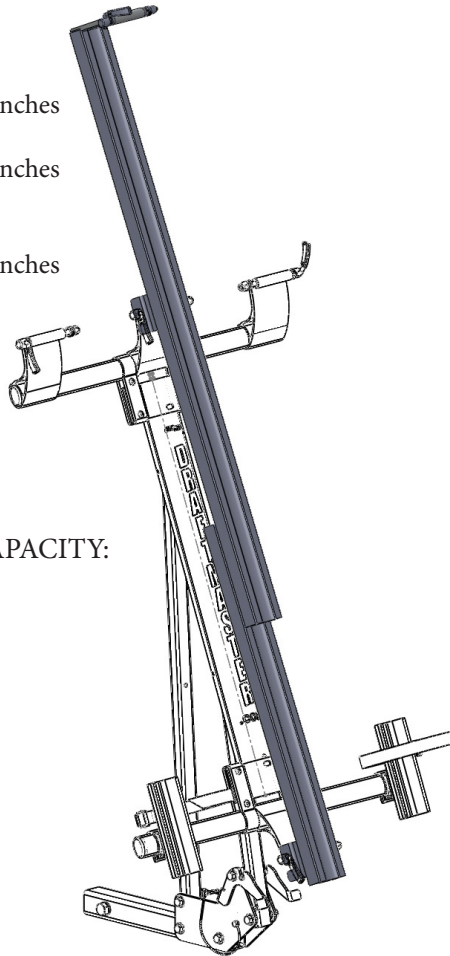
S63: fits wheelbases 41 - 63 inches

S76: fits wheelbases 53 - 76 inches
and under 44 inches

S84: fits wheelbases 53 - 84 inches
and under 44 inches

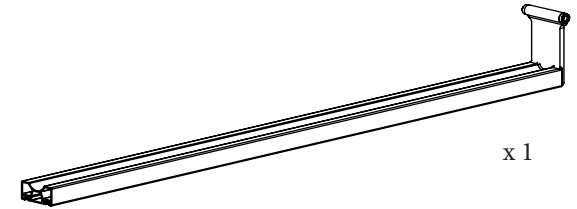
MAXIMUM WEIGHT CAPACITY:
S63, S76, S84
50 lbs (22.75 kg)

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



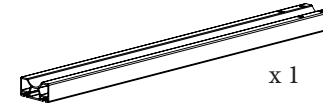
WHAT YOU GET

Keel beam: S63: 33 inch
S76: 45 inch
S84: 45 inch



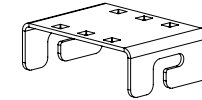
x 1

Tail beam: S63: 35 inch
S76: 35 inch
S84: 43 inch



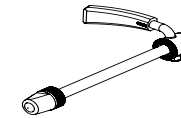
x 1

Quick connect bracket (QCB)



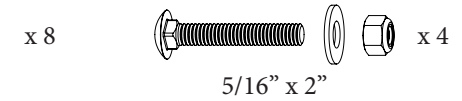
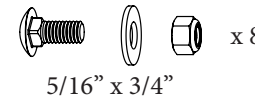
x 2

Quick release skewer (QRS)



x 1

Carriage bolt sets



5/16" x 3/4"

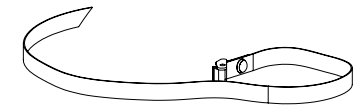
5/16" x 2"

Wheel Strap



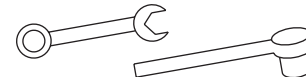
x 1

Safety Strap



x 1

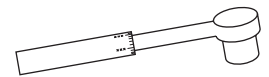
TOOLS NEEDED



1/2 inch or 13 mm wrench



Tape Measure

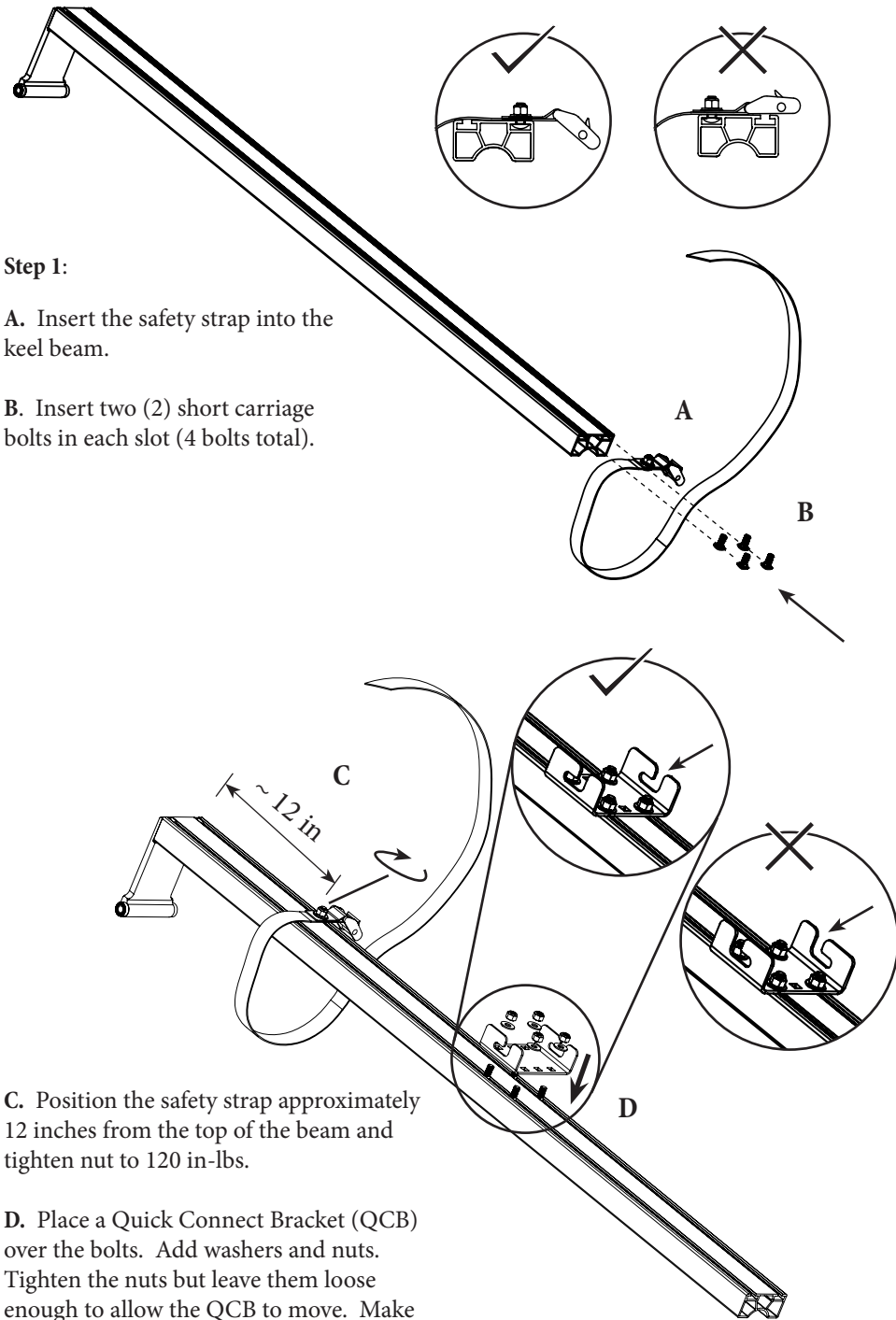


Torque wrench
(optional *)

* 120 in-lbs (10 ft-lbs) is equivalent to applying 10 lbs of force at the end of a 12-inch wrench or 15 lbs of force at the end of a 8-inch wrench.

Note: A gallon of water weighs 8 lbs. It takes 8 lbs of force to lift a gallon of water.

ASSEMBLY



Step 2:

A. Insert the 4 long carriage bolts into the tail beam. Add washers and nuts. Turn nuts finger tight.

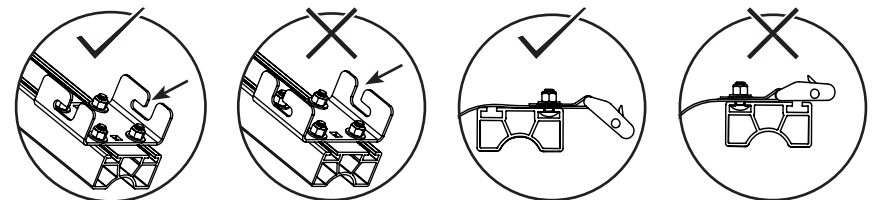
B. Insert the wheel strap into the tail beam.

C. Insert two (2) short bolts in each slot (4 bolts total).

D. Place a Quick Connect Bracket (QCB) over the bolts. Add washers and nuts.

E. Position the QCB 1/2" above the bottom of the tail beam** and tighten nuts to 120 in-lbs. Make sure to align the bracket as shown.

F. Position wheel strap about 3" above the QCB and tighten the strap's nut.



** This will maximize the specialty rail's ground clearance when driving. If your receiver is high off the ground and ground clearance is not a concern, it may work better to position the QCB higher on the tail beam and position the wheel strap below the QCB.

Step 3:

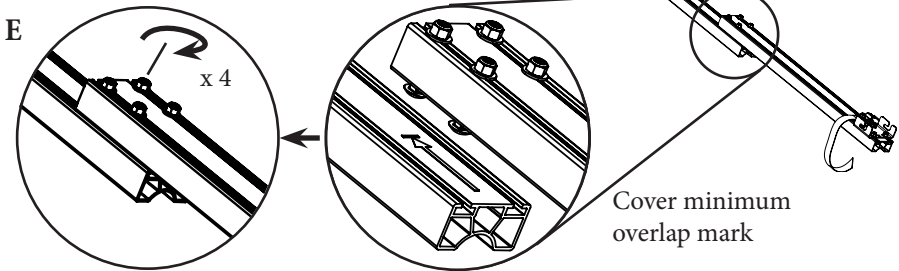
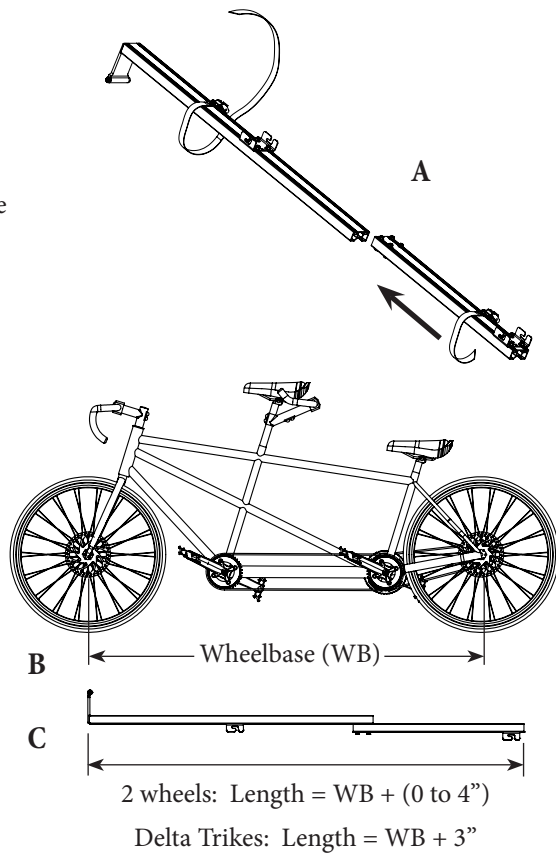
A. Slide the heads of the long carriage bolts previously installed in the tail beam into the slots at the bottom of the keel beam.

B. Measure the axle-to-axle wheelbase (WB) of your bike.

C. Adjust the overall length of your specialty rail as shown.

D. Check the overlap to confirm that the tail beam covers the minimum overlap mark on the keel beam. ***

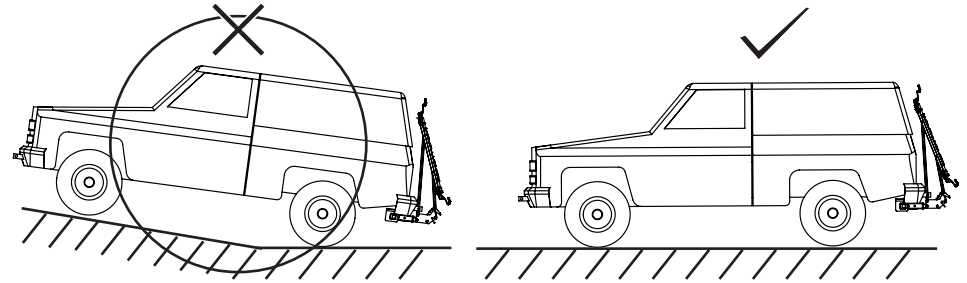
E. Tighten nuts to 120 in-lbs.



*** If adjusting your specialty rail to the length of your bike prevents you from meeting the minimum overlap requirement, contact your retailer or Atoc Inc. for further advise.

Step 4:

Park your vehicle on a flat surface.
Install the Interconnect in your car's receiver.
Install the cross arms on the Interconnect.
(Note: These modules are provided separately.)



Step 5:

Adjust the specialty rail to fit your cross arms:

A. Hang the lower quick connect bracket (QCB) on the lower fork mount.

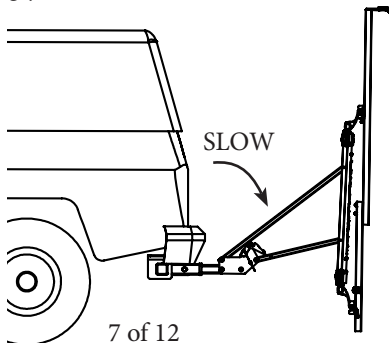
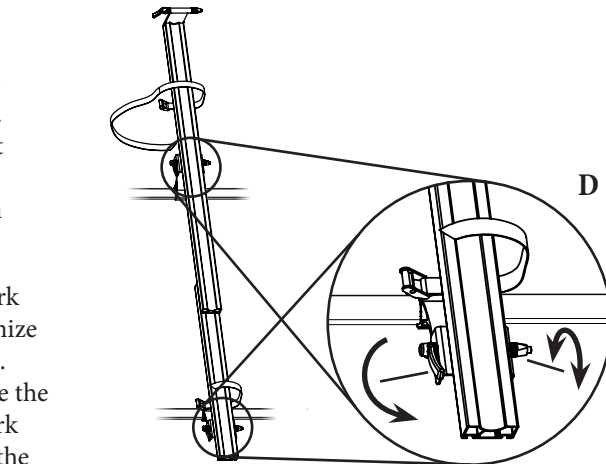
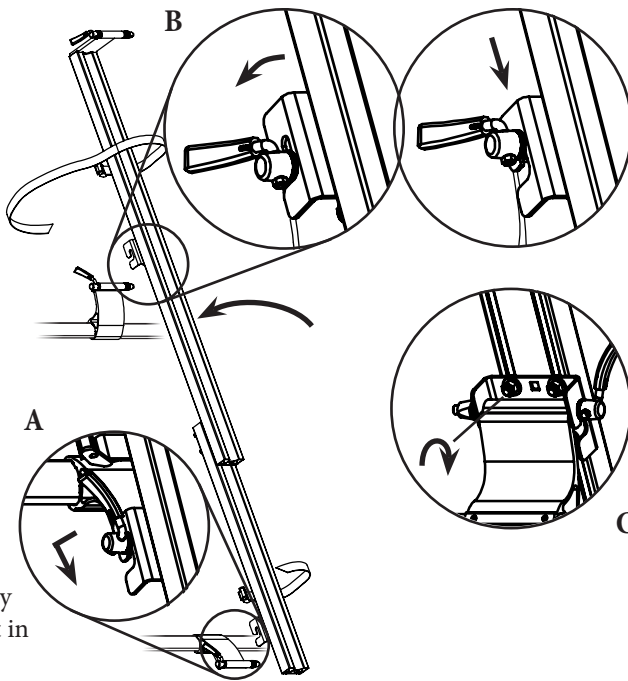
B. Swing the upper end of the specialty rail toward the upper cross arm and slide the upper QCB onto the upper fork mount so that it is fully seated on the skewer.

C. Tighten one of the upper nuts on the QCB to temporarily hold the quick connect bracket in place on the rail.

D. Close the skewers to secure the specialty rail to the cross arms. Adjust the skewer nuts to create sufficient clamping force. This is achieved when a distinct impression in the heel of your hand is made by the lever when you close the skewer.

Note: The orientation of the fork mounts may be flipped to optimize the position of the specialty rail. Use a 1/8" hex wrench to release the set screws on the back of the fork mounts. Adjust the position of the quick connect brackets accordingly.

E. Lower the rack slowly.

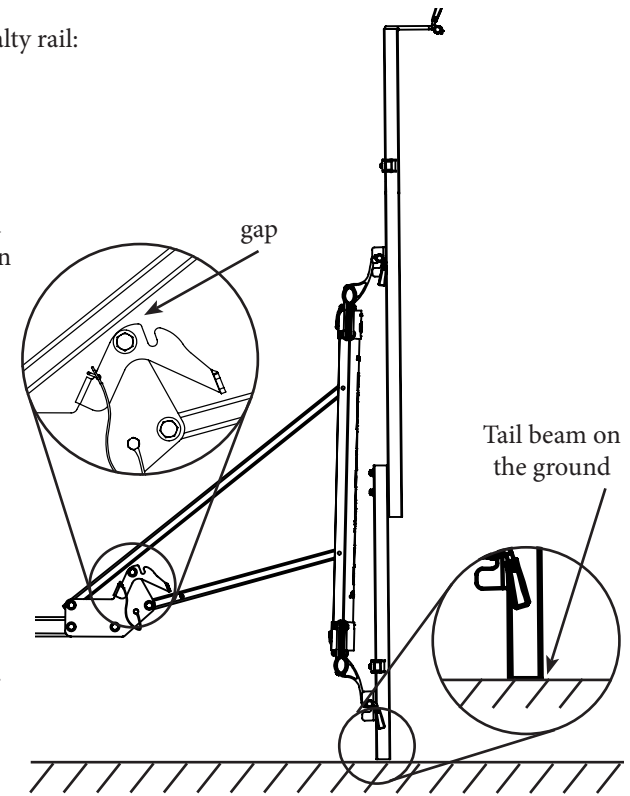


Check the position of the specialty rail:

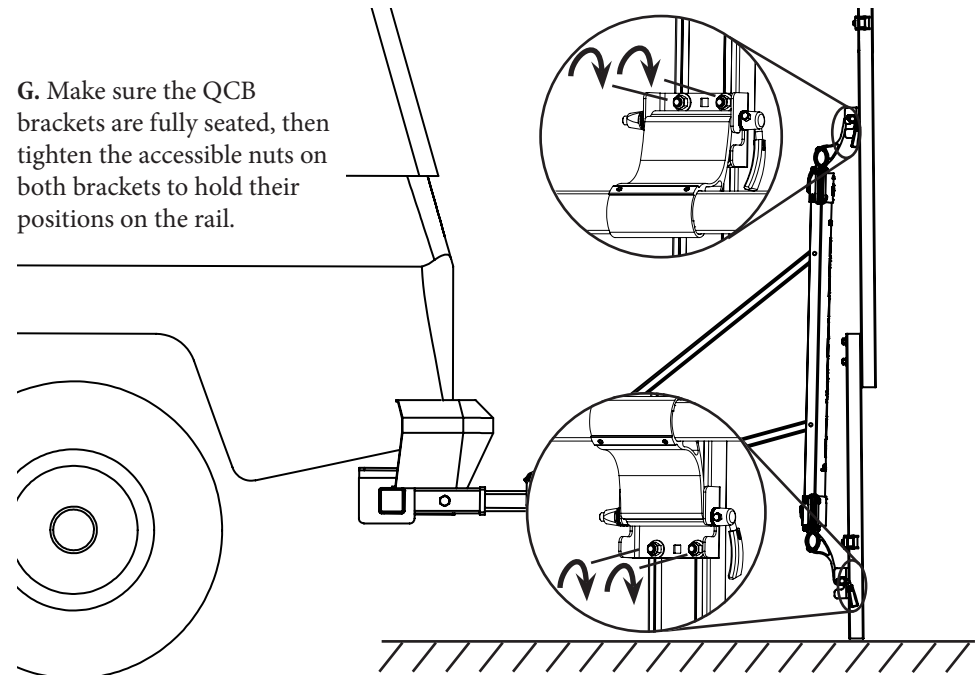
F. It is desirable, but not required, to have a gap, (1/4 inch or more) between the long upright strut and the cushioned bolt when your Draftmaster is in the lowered loading position.

Adjust the position of the specialty rail on the QCB's so that there is a gap between the long upright strut and the cushioned bolt when the tail beam rests on the ground.

Note: Positioning the specialty rail lower on the QCB's and cross arms will reduce your ground clearance when driving.

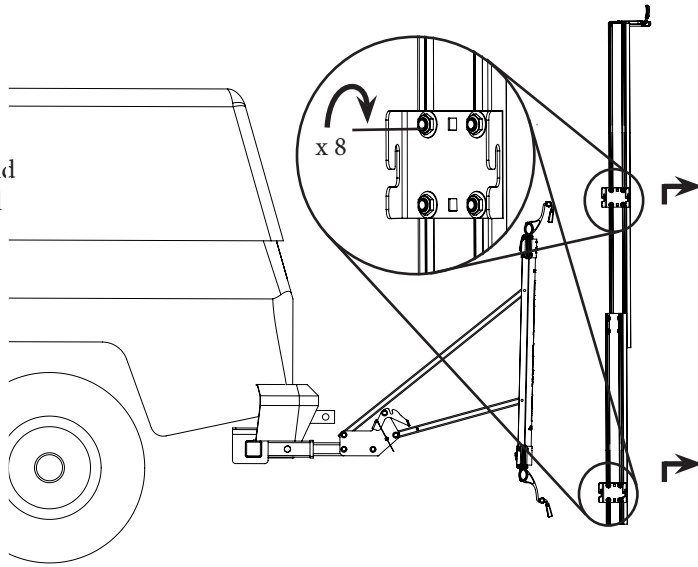


G. Make sure the QCB brackets are fully seated, then tighten the accessible nuts on both brackets to hold their positions on the rail.



H. Open the skewers and remove the specialty rail from the cross arms.

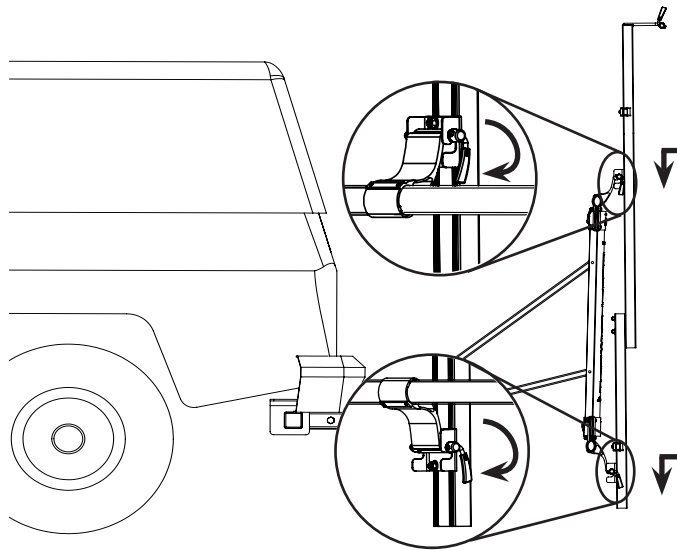
Tighten all four nuts on both brackets (8 nuts total) to 120 in-lbs.



Step 6:

Place the specialty rail on the fork mounts again. Close the skewers.

Your specialty rail is now assembled and installed.



Final Fit Check:

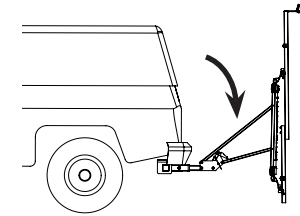
If your Draftmaster holds multiple bikes, load your bikes and check for interference issues. Make adjustments as needed.

Verify that all nuts on your specialty rail are tightened to 120 in-lbs.

LOADING

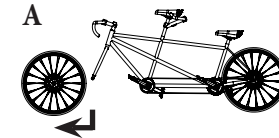
Step 1:

Park on a flat surface, away from traffic. Lower your Draftmaster to the loading position.

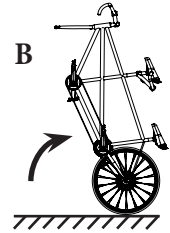


Step 2:

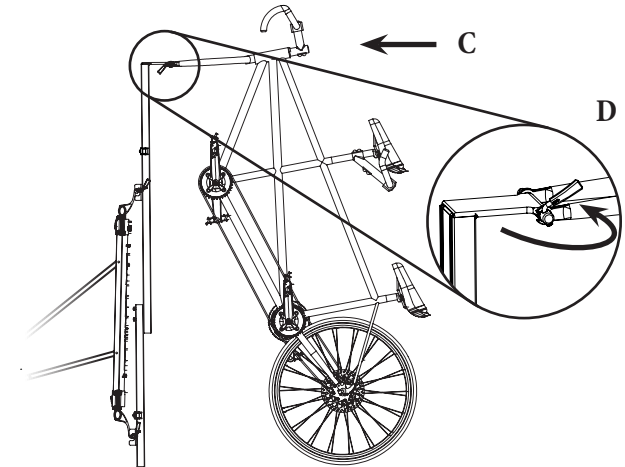
A. Remove the front wheel.



B. Lift the front of your bike so it balances on the rear wheel.



C. Roll your bike up to your Draftmaster and set the fork in the fork mount.



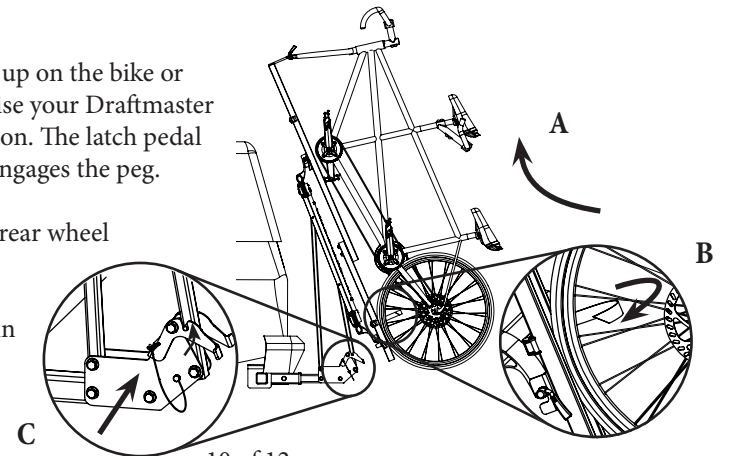
D. Close skewer to secure the bike fork to the fork mount. Adjust the skewer nut to create sufficient clamping force. This is achieved when a distinct impression in the heel of your hand is made by the lever when you close the skewer.

Step 3:

A. Push forward and up on the bike or upper cross arm to raise your Draftmaster into the driving position. The latch pedal should click when it engages the peg.

B. Secure your bike's rear wheel with the wheel strap.

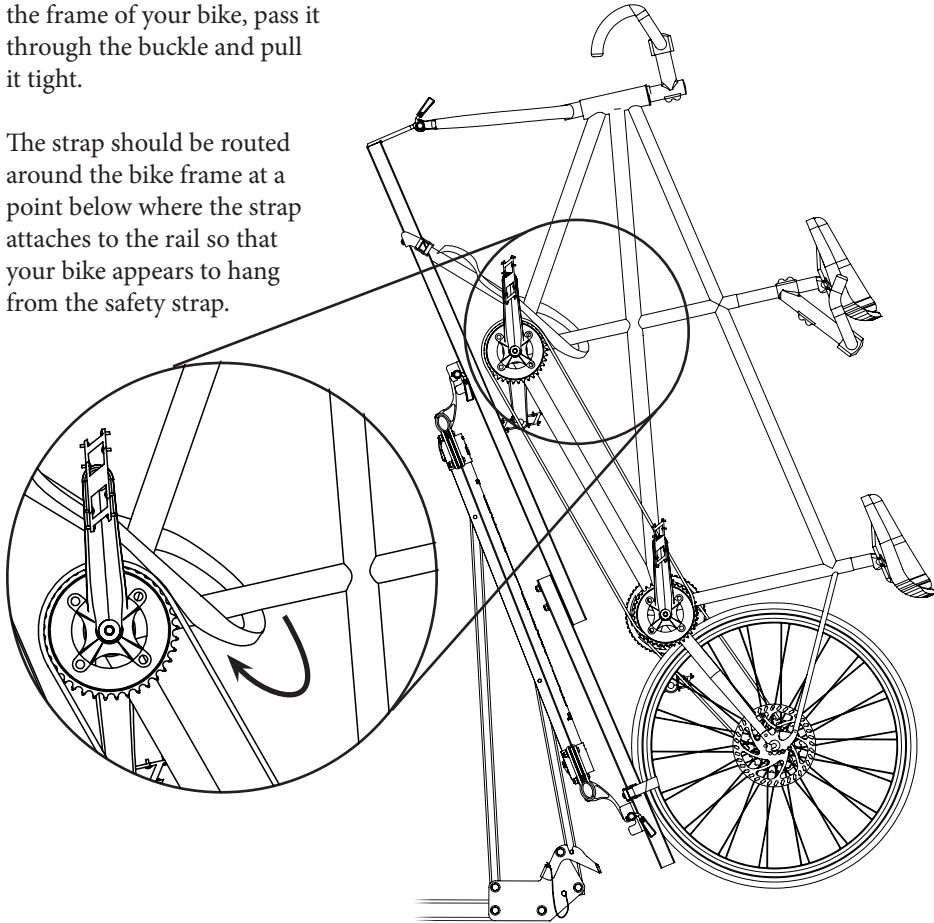
C. Insert the safety pin into the latch hole.



Step 4:

Feed the safety strap through the frame of your bike, pass it through the buckle and pull it tight.

The strap should be routed around the bike frame at a point below where the strap attaches to the rail so that your bike appears to hang from the safety strap.



UNLOADING

Park on a flat area, away from traffic.
Allow space behind the vehicle to lower the rack and remove the bikes.

Unloading is the reverse of the loading process.

WARRANTY

Since Atoc Inc. has no control over the attachment of its products to any vehicle, Atoc Inc. cannot assume responsibility for the attachment or use of its products to any vehicle, nor can Atoc Inc. assume responsibility for any damages resulting from the attachment or use of its products to any vehicle. Atoc Inc. assumes responsibility only for products produced by or for Atoc Inc. The liability of Atoc Inc. is limited to the replacement or repair of merchandise which proves defective in materials and/or workmanship. This liability is further limited to one year from date of purchase. Additionally, any warranty from Atoc Inc. is applicable only if instructions are followed and the product is properly used. Normal wear and tear of merchandise or damage resulting from misuse, accidents, or alterations are not covered by this warranty. If an article is thought to be defective, the customer shall return it to an authorized Atoc Inc. dealer with proof of purchase. Atoc Inc. will then issue authorization to the dealer for the return of these articles. (Alternately, the customer may request to return the article directly to Atoc Inc. if there is not a local Atoc Inc. dealer. Such returns must be authorized in advance by Atoc Inc.) If an article is found to be defective upon inspection by Atoc Inc., Atoc Inc. will repair or replace the article at its discretion without charge. Freight is not included. Unauthorized returns will not be accepted.