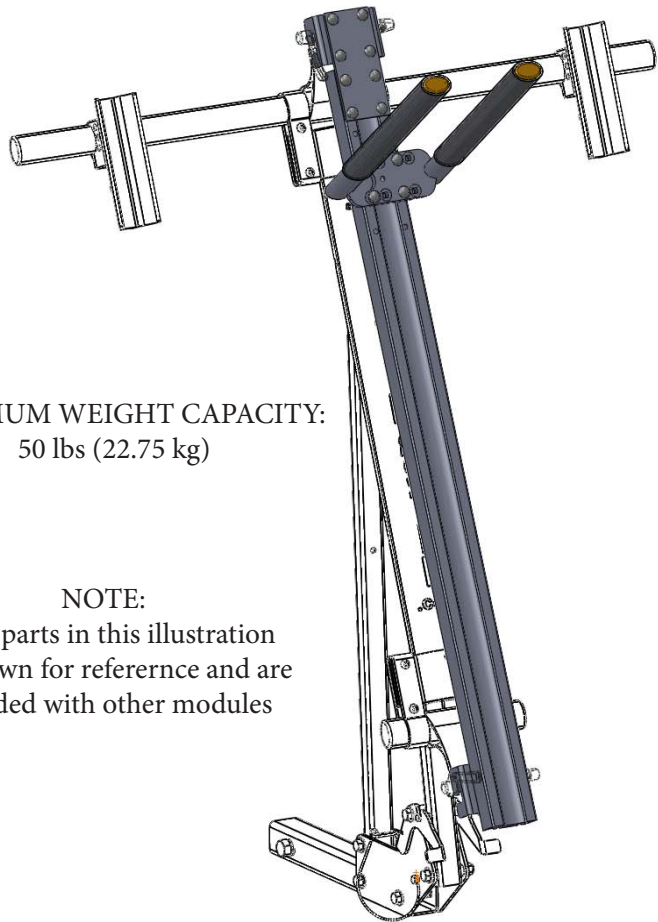




Specialty Rail for Tadpole Trikes STT module (2nd Generation) Assembly and Operation



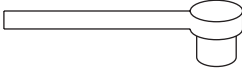
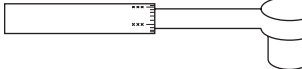
MAXIMUM WEIGHT CAPACITY:
 50 lbs (22.75 kg)

NOTE:
 Clear parts in this illustration
 are shown for referrence and are
 included with other modules

What you get:

- Main Rail x 1
- Left and Right Trike Support arms L x 1, R x 1, x 1
- Quick Connect Bracket (QCB) x 2
- Connector Plate x 1
- 5/16" x 2-1/2" bolt set x 4
- 5/16" x 1-3/4" bolt set x 4
- 5/16" x 3/4" bolt set x 8
- Safety Strap x 1
- Wheel Strap x 1

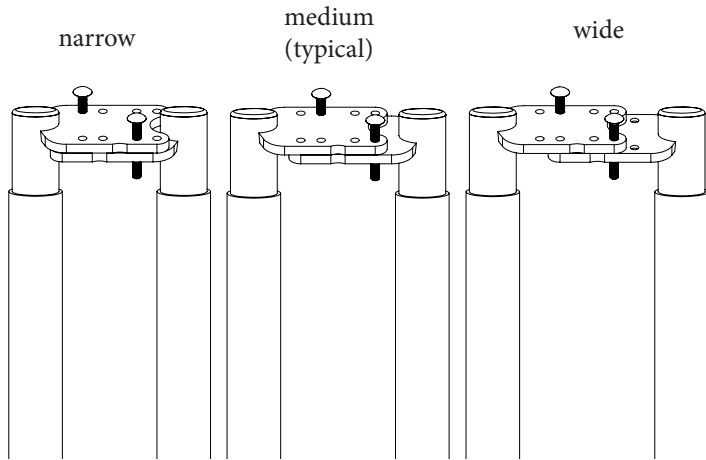
What you need:

- wrench with 1/2 inch socket 
- optional:
 1/2 inch torque wrench 

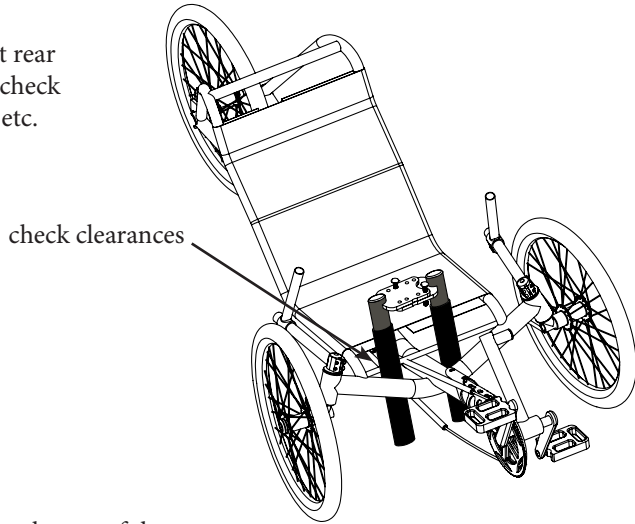
Assembly

Step 1

Determine the best arm spacing for your tadpole trike. Use a pair of bolts to temporarily set the spacing for testing on the trike.



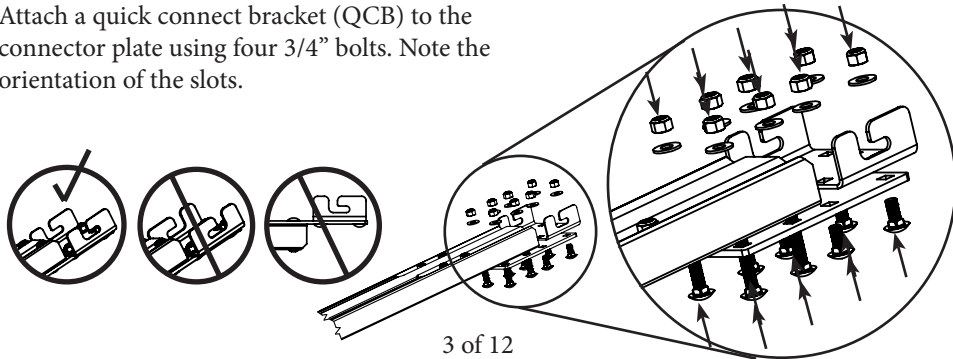
Position the arms against rear edge of crossmember to check clearances with linkages etc.



Step 2

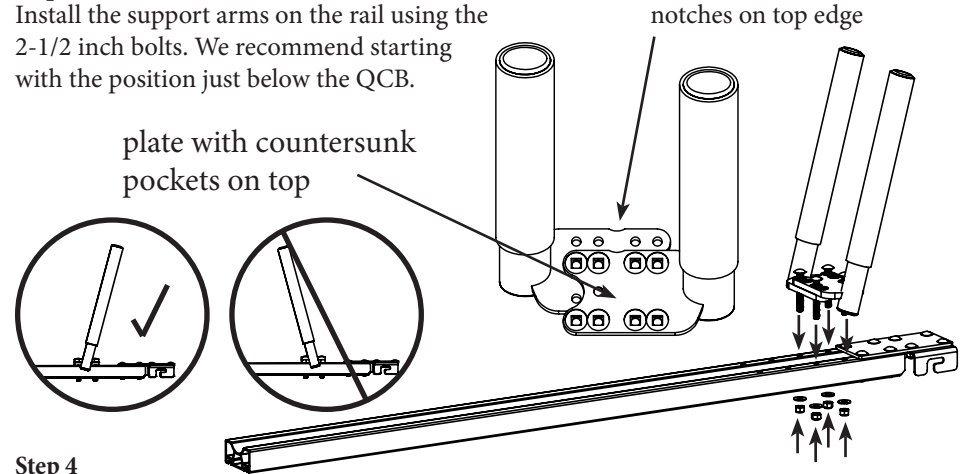
Attach the connector plate at the top of the rail using the four 1-3/4" bolts with nuts and washers.

Attach a quick connect bracket (QCB) to the connector plate using four 3/4" bolts. Note the orientation of the slots.



Step 3

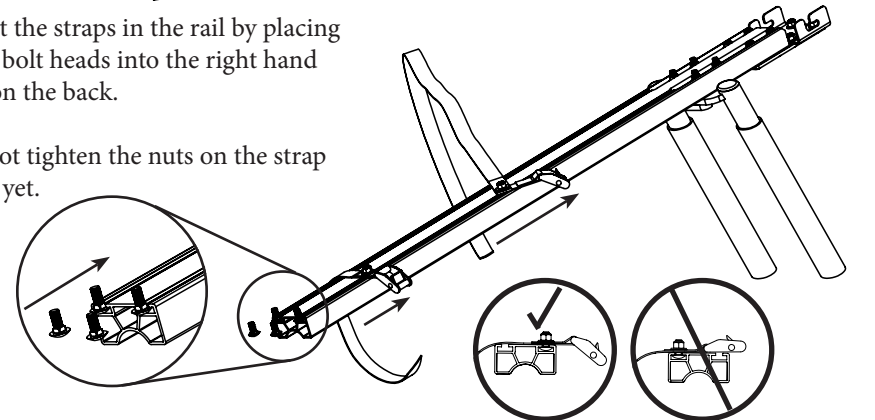
Install the support arms on the rail using the 2-1/2 inch bolts. We recommend starting with the position just below the QCB.



Step 4

Insert the straps in the rail by placing their bolt heads into the right hand slot on the back.

Do not tighten the nuts on the strap bolts yet.

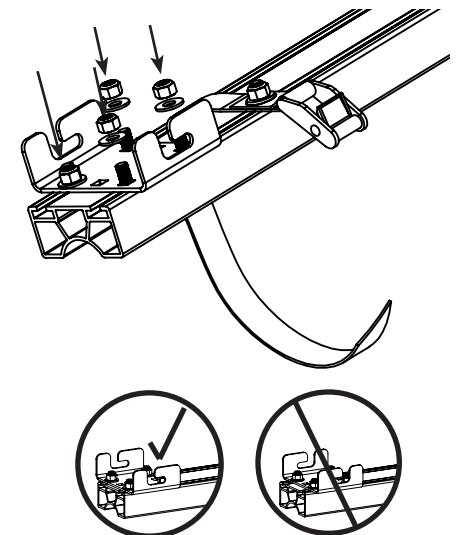


Step 5

Attach the second QCB at the bottom of the rail using the two (2) 3/4 inch bolt sets in each slot, four (4) total.

Be sure the slots in the QCB are oriented as shown.

Tighten one of the nuts closer to the bottom of the rail. Leave the other three nuts loose at this time.



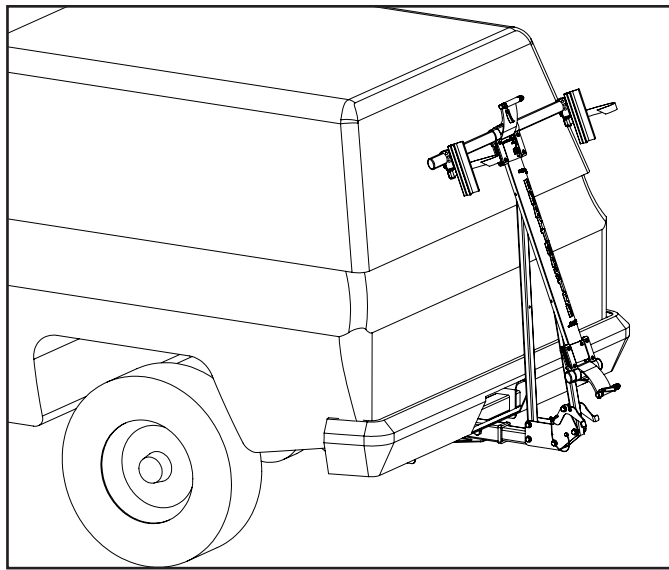
Step 6

Mount the Interconnect in your car's receiver.

Install the cross arms on the Interconnect.

Cross arms for (1) tadpole trike shown. Your configuration may be different.

(The cross arms are a separate module. See cross arm manual for detailed instructions.)



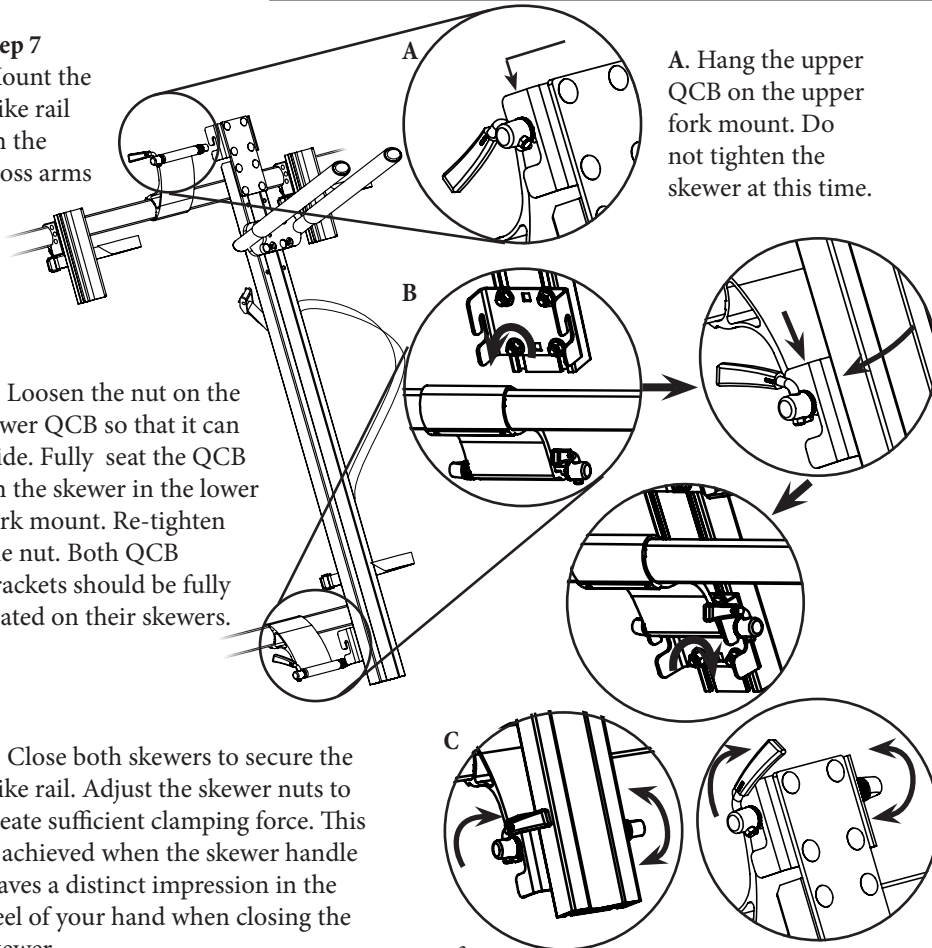
Step 7

Mount the trike rail on the cross arms

B. Loosen the nut on the lower QCB so that it can slide. Fully seat the QCB on the skewer in the lower fork mount. Re-tighten the nut. Both QCB brackets should be fully seated on their skewers.

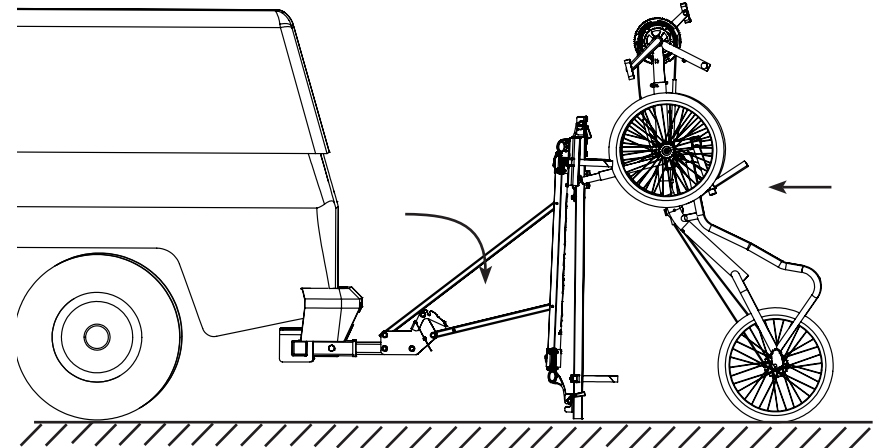
C. Close both skewers to secure the trike rail. Adjust the skewer nuts to create sufficient clamping force. This is achieved when the skewer handle leaves a distinct impression in the heel of your hand when closing the skewer.

A. Hang the upper QCB on the upper fork mount. Do not tighten the skewer at this time.



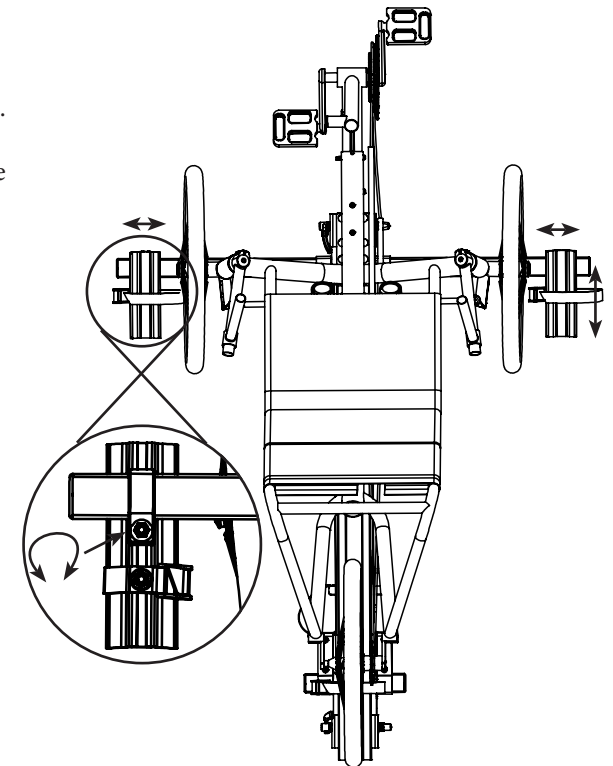
Step 8

Lower your Draftmaster into the loading position. (See Interconnect manual for detailed instructions.) Lift the front end of your tadpole trike and position your trike frame's cross member over the Draftmaster's trike module support arms. If this requires lifting the rear wheel off the ground, the arms can be reset at a lower position. See step 3 to reposition the support arms, but finish the checks in steps 9 and 10 first.



Step 9

Adjust wheel trays right/left and up/down to fit your trike. Loosen the nut on the wheel tray mounting clamp to make the adjustments. Tighten the nut again when finished.

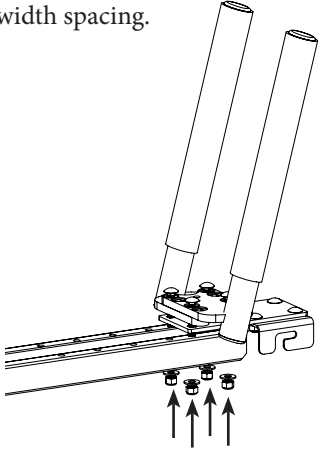


Step 10

Check to be sure your trike has adequate ground clearance (A). Keep in mind that you may encounter bumps, steep driveways, and other obstacles. Adjust the height of the arms as desired.

OPTION

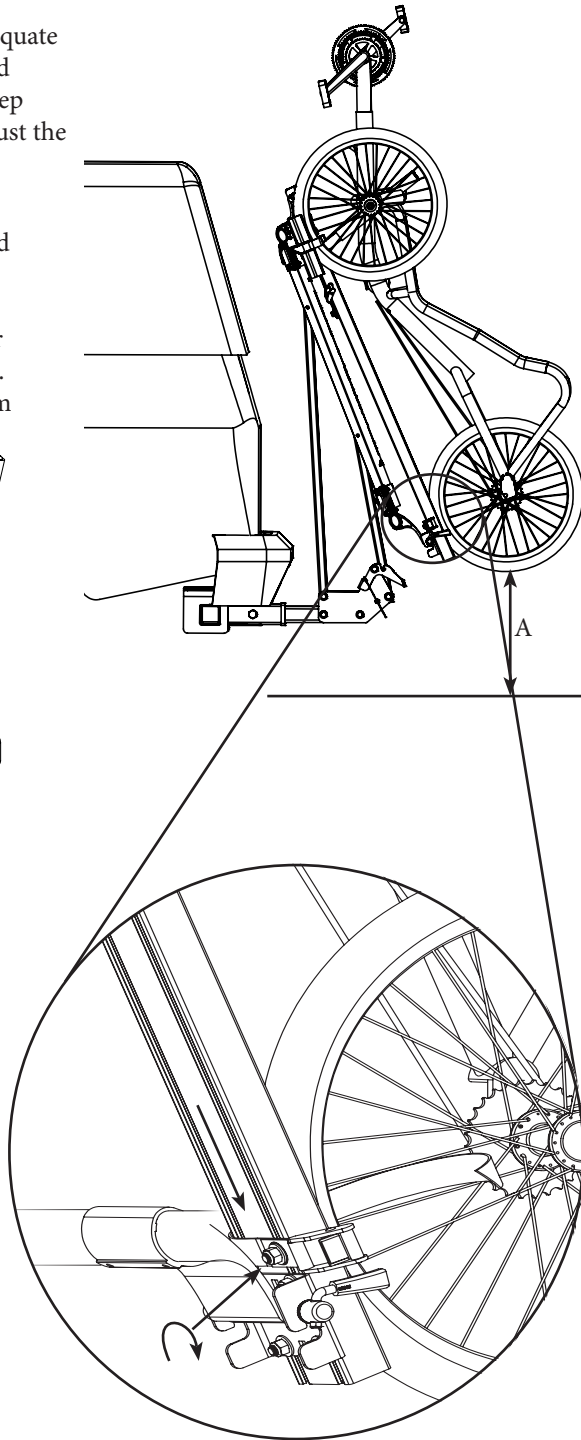
IF you need maximum ground clearance, the arms can be mounted overlapping the bottom holes of the connector plate. Use the 2-1/2 inch bolts. Make sure to use the same arm width spacing.



Step 11

Once you have the support arms adjusted, position the wheel strap under the wheel.

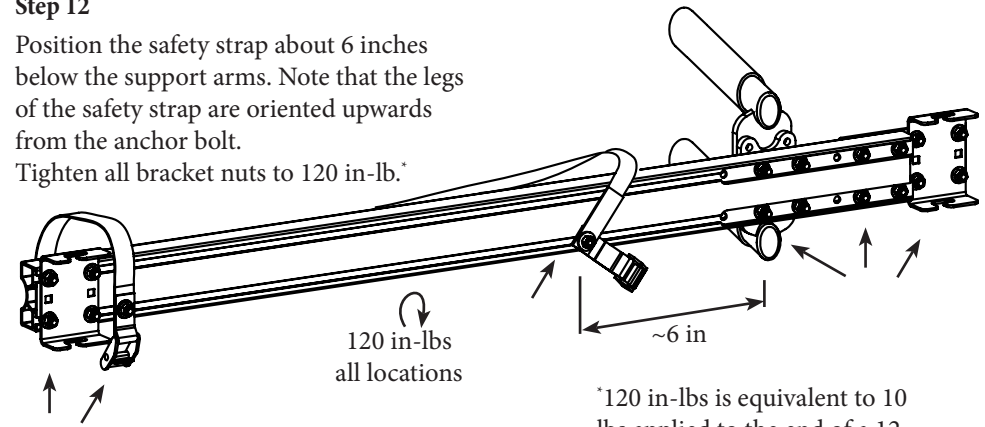
Tighten the nut.



Step 12

Position the safety strap about 6 inches below the support arms. Note that the legs of the safety strap are oriented upwards from the anchor bolt.

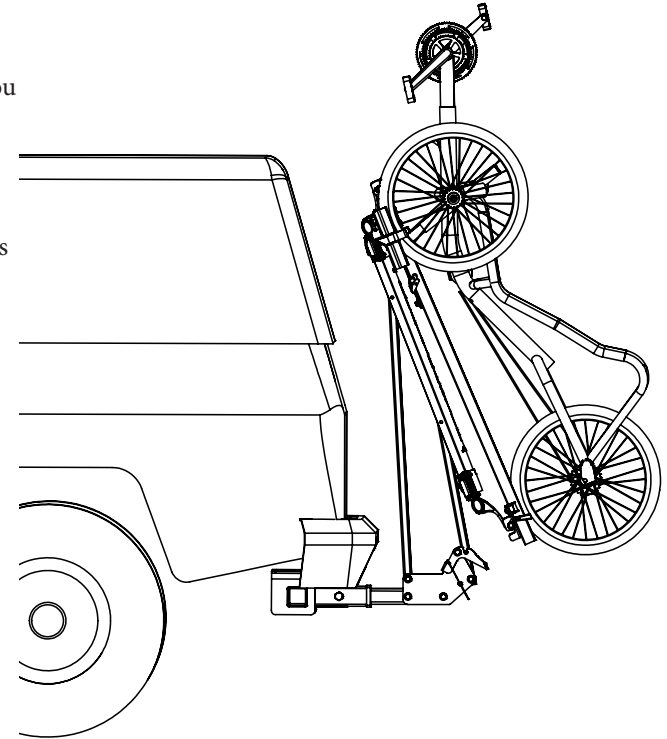
Tighten all bracket nuts to 120 in-lb.*



*120 in-lbs is equivalent to 10 lbs applied to the end of a 12-inch wrench. A gallon of milk weighs about 8 lbs.

Step 13

Do a final check. Can you load the trike without lifting the rear wheel off the ground? Are the upper wheel trays and straps positioned well? Is there sufficient ground clearance? Is the lower wheel strap in the right place?

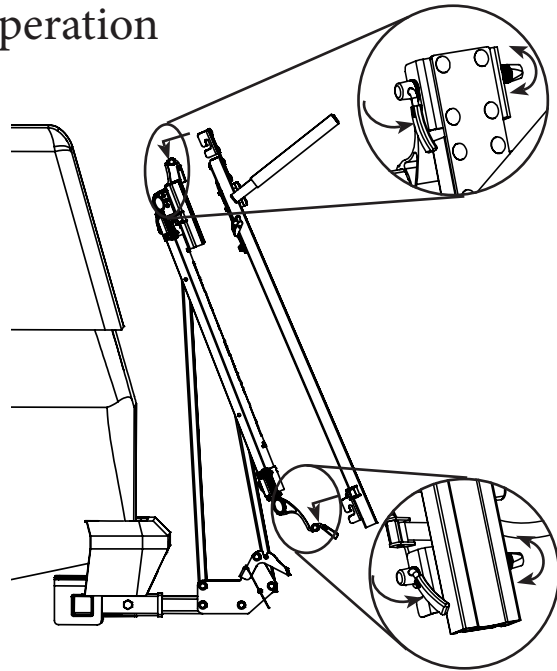


Your trike rail is now assembled.

Operation

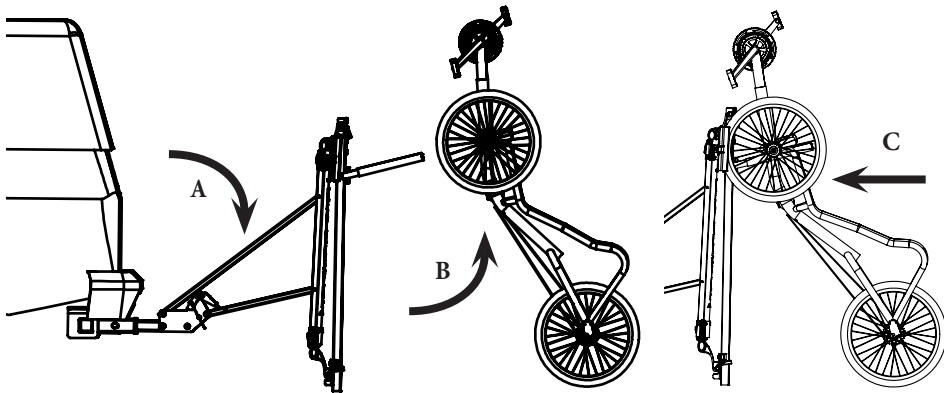
Step 1

Load the trike rail on the fork mount skewers using the quick connect brackets (QCB's). Close the skewers so that the QCB's are firmly clamped on the fork mounts. Adjust the skewer nuts to create sufficient clamping force. This is achieved when the skewer handle leaves a distinct impression in the heel of your hand when closing the skewer.



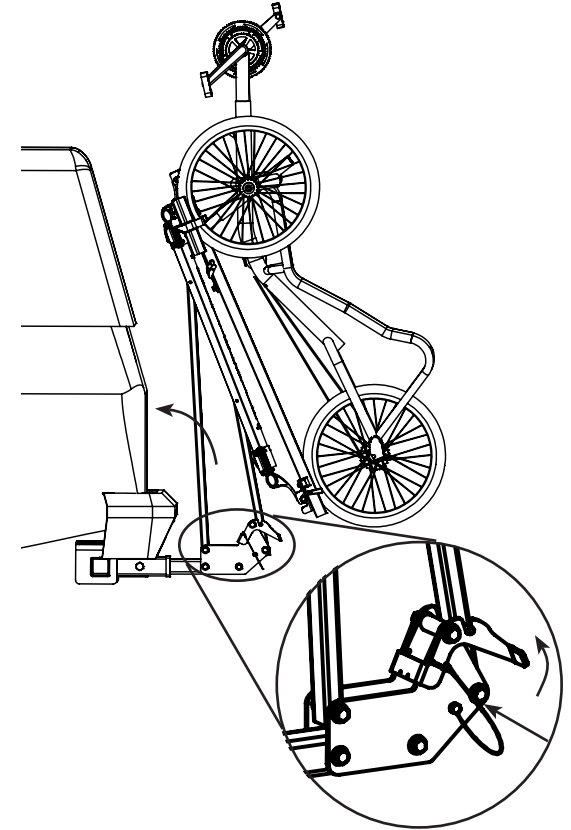
Step 2

- A. Lower your Draftmaster into the loading position.
- B. Stand the trike on its rear wheel.
- C. Roll the trike forward with its frame cross member passing over the support arms until the front wheels reach the wheel trays on the upper cross arm.



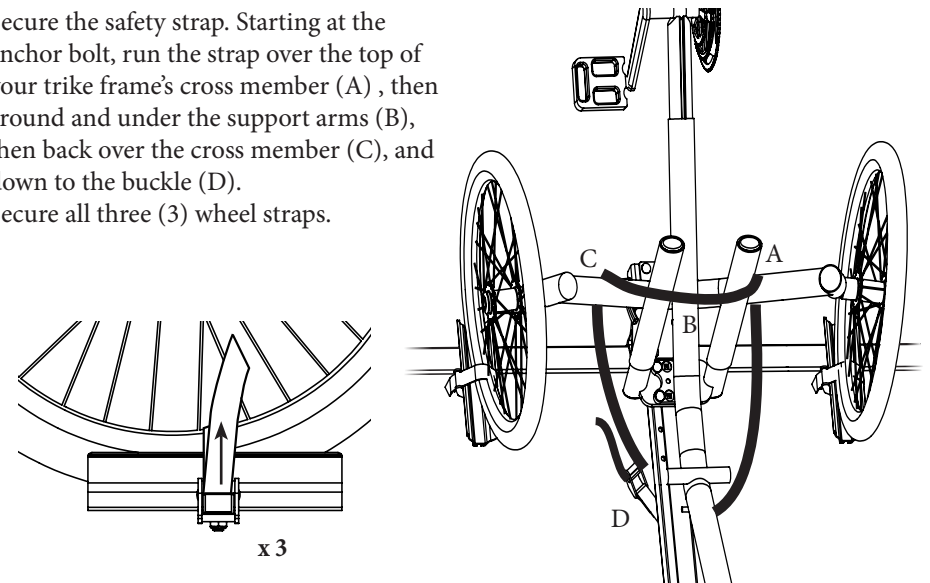
Step 3

Lift the rack into driving position until the latch pedal locks in place. Insert the safety pin in latch.



Step 4

Secure the safety strap. Starting at the anchor bolt, run the strap over the top of your trike frame's cross member (A), then around and under the support arms (B), then back over the cross member (C), and down to the buckle (D). Secure all three (3) wheel straps.



Your tadpole trike is now ready to travel!

WARRANTY

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