

**ATOC**

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# STT12, STT16

## Specialty Rail For Tadpole Trike

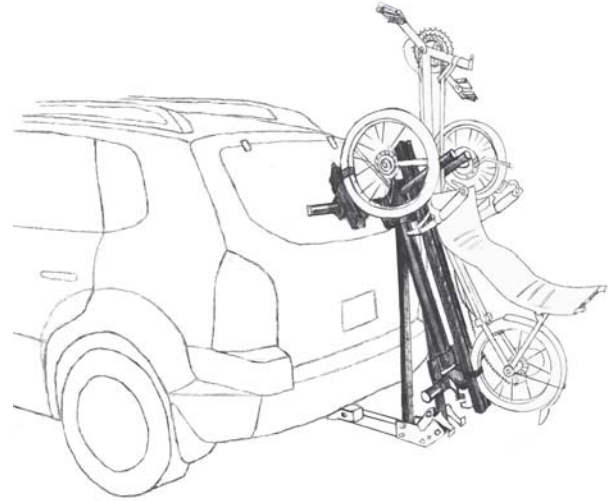
### ASSEMBLY & OPERATION

#### Parts List

Qty	Description
1	Trike Support Arm, left
1	Trike Support Arm, right
1	50 inch Beam
2	Quick Connect Bracket
8	Carriage Bolt, ¾ inch
4	Carriage Bolt, 1½ inch
2	Carriage Bolt, 4 inch
12	Washer
14	Nylok Nut
1	Safety Strap Assembly (long)
1	Wheel Strap Assembly (short)
2	Wheel Tray Riser Block

The following parts are used with your STTxx module but are included with the Cross Arm module.

2	Wheel Tray
2	Wheel Strap Assembly (short)
2	Carriage Bolt, 2 inch
2	Nylok Nut
2	Wheel Tray Mounting Clamp



#### TOOLS NEEDED

- (1) ½ inch wrench
- (1) ½ inch torque wrench

If you do not have a torque wrench, note that 120 in-lbs is equal to pushing on the end of a 12 inch wrench with 10 lbs of force, or a 6 inch wrench with 20 lbs of force.

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## ① Determine Correct Support Arm Spacing

Note: The Support Arms must be spaced properly to clear your trike's frame, steering linkages, chain pulleys, etc. The Support Arms will be attached to the Beam in Step 2.

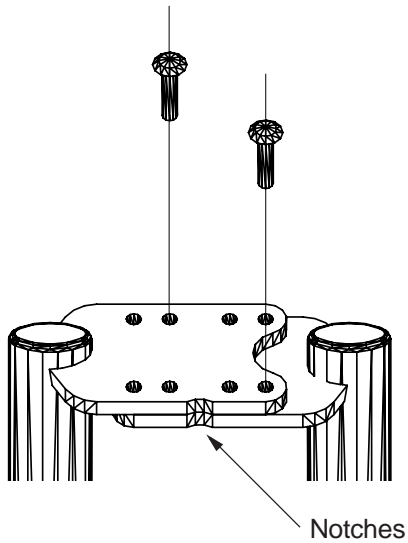


Figure 1A

1.1 Hold the support arm plates together with the notches aligned as shown in Fig 1A. This is the medium Support Arm spacing. Insert 2 carriage bolts to help maintain the alignment.

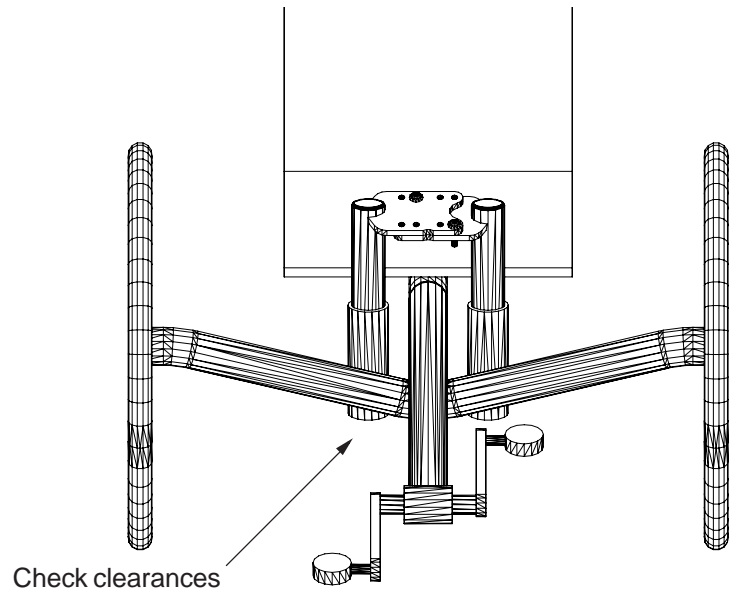


Figure 1B

1.2 With your trike resting on the ground, slide the Support Arms down over your trike as shown in Fig 1B. Move the Arms forward so that they touch the rear of your trike's cross member. Check the spacing between your trike and the padded area of the Support Arms. You need enough clearance to load your trike onto the arms. You may adjust the Support Arms  $\frac{3}{4}$  inch (19 mm) wider or narrower as needed.

## ② Set Up The Beam Assembly

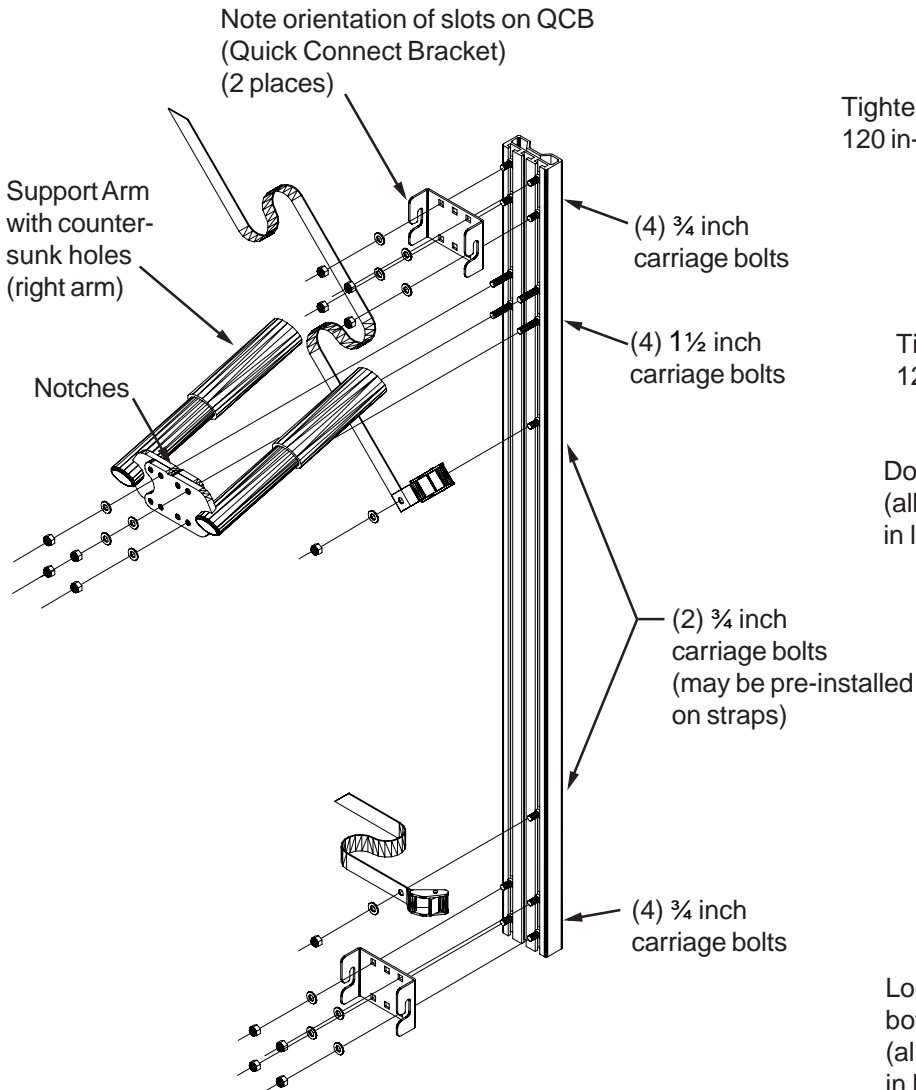


Figure 2A

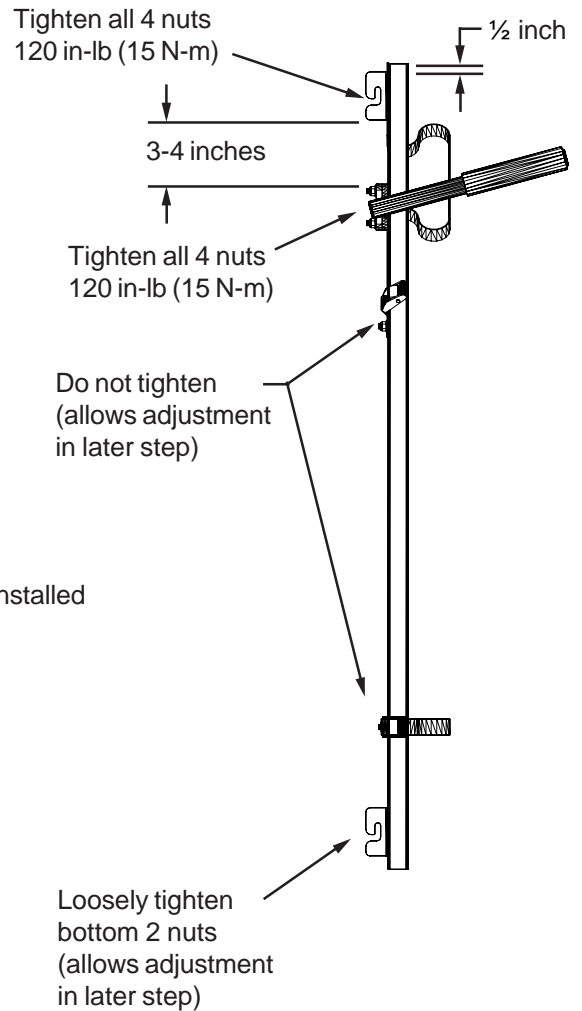


Figure 2B

2.1. Slide carriage bolts into tracks on back of the beam and assemble as shown in Fig 2A. The bolts for the straps are pre-installed in the straps' mounting hole.

The Support Arm with the countersunk holes (the right arm) goes on the inside - between the left arm and the Beam. The notches in the edge of the arm brackets should be on the upper edge.

2.2. Tighten nuts as indicated in Fig 2B.

### ③ Adjust Lower Quick Connect Bracket Position

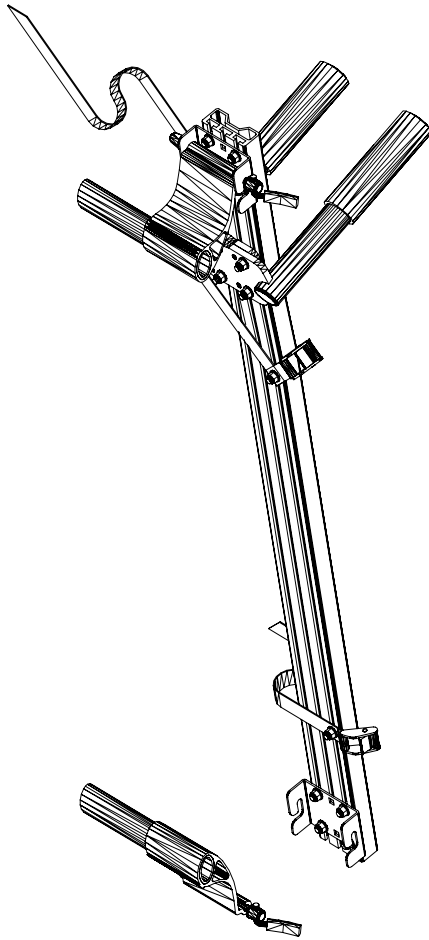


Figure 3A

3.1. Install the Cross Arms onto the Draftmaster Interconnect module according to their separate instructions. Position the Interconnect in the up (latched) position.

3.2. Place the beam assembly in the intended location on the Cross Arms by sliding the upper QCB (Quick Connect Bracket) over the skewer in the fork mount. Do not tighten the skewer at this time. See Fig 3A.

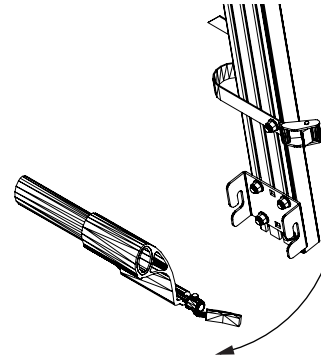
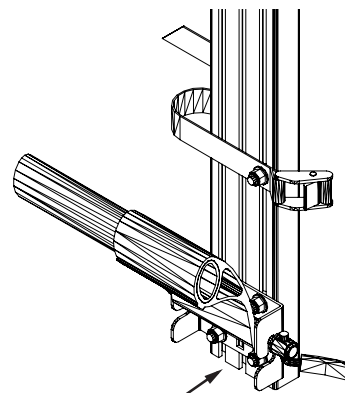


Figure 3B



Tighten all 4 nuts  
120 in-lb (15 N-m)

Figure 3C

3.3. Loosen the nuts on the lower QCB so that it can slide on the beam. Swing the beam and slide the lower QCB over the lower fork mount's skewer. Check to be sure the skewers are fully seated at the end of the slots in both upper and lower QCBs. See Fig 3B.

3.4. Re-tighten the lower 2 nuts on the lower QCB. Remove the beam assembly and fully tighten all 4 nuts to 120 in-lb (15 N-m). See Fig 3C.

## ④ Adjust Beam Assembly To Fit Your Trike

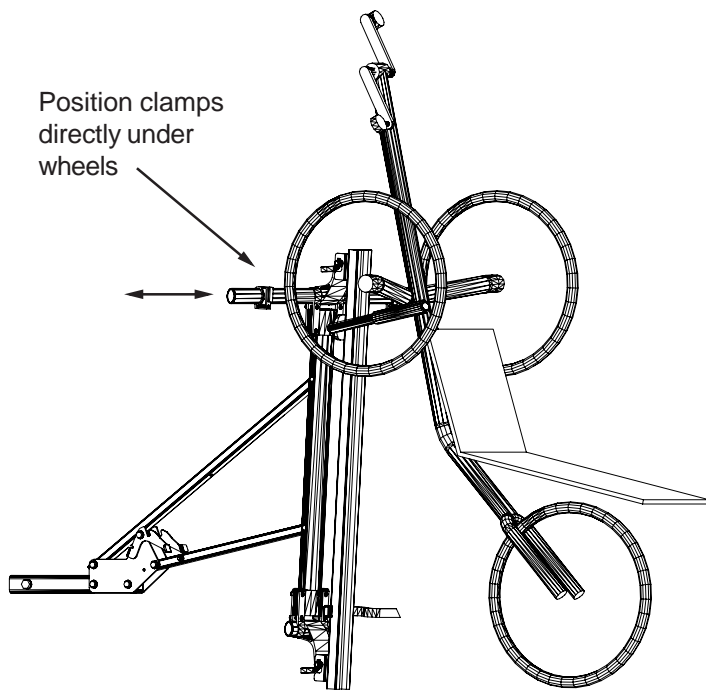


Figure 4A

4.1. Mount the Beam assembly on the cross arms and close the skewers to lock it in place. Press the Interconnect pedal with your foot and swing the Draftmaster system back and down.

4.2. Place your tadpole trike on the Draftmaster with the trike's cross member on top of the Support Arms. See Fig 4A. Slide the WTMCs (Wheel Tray Mounting Clamp) so they are directly under the front wheels. The wheels do not need to touch the clamps.

4.3. Carefully raise the Draftmaster into the up (latched) position with your trike in place. Check the vertical position of your trike. The front wheels should be approximately centered on the upper cross arm, not significantly above or below it. If necessary, remove your trike and adjust the

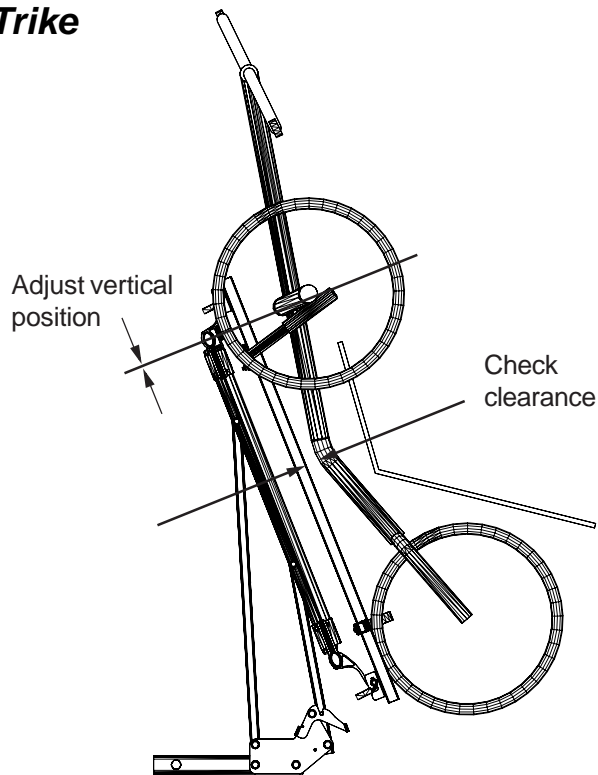
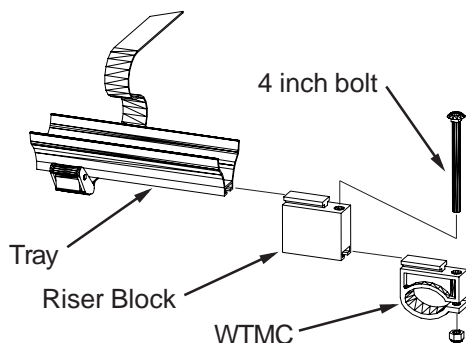


Figure 4B

height of the Support Arms. See Fig 4B. Remove your trike from the Draftmaster before adjusting the Support Arms.

4.4. Check the clearance between your trike and the Beam Assembly. If the clearance is less than  $\frac{1}{2}$  inch (1.25 cm) you will want to use the riser blocks provided.

4.5. Install the wheel trays - and riser blocks if needed. Do not over tighten the nuts on the WTMCs. Install the wheel straps onto the wheel trays. See Fig 4C.

4.6. Adjust the Safety Strap position to be approximately 6 inches (15 cm) below the Support Arm brackets and tighten its retaining nut. The legs of the Safety Strap should point up.

4.7. Adjust rear wheel strap position as needed and tighten its retaining nut.

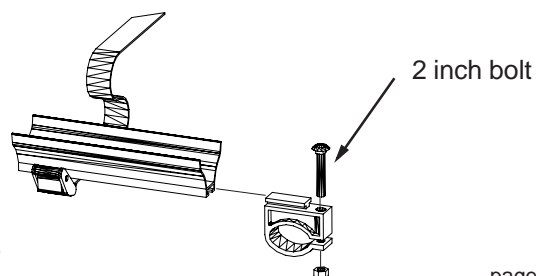


Figure 4C

⑤ **Using Your Draftmaster STTxx Tadpole Carrier**

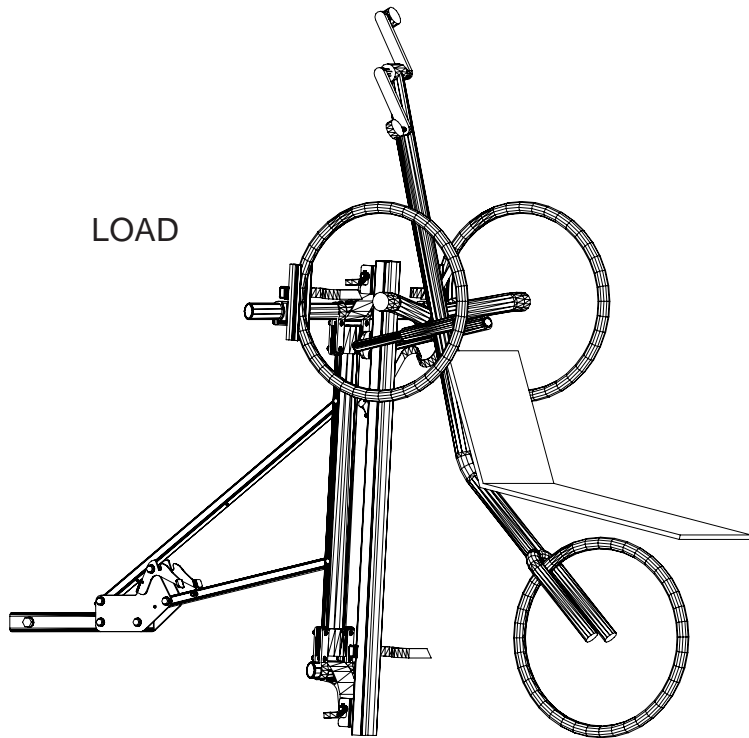


Figure 5A

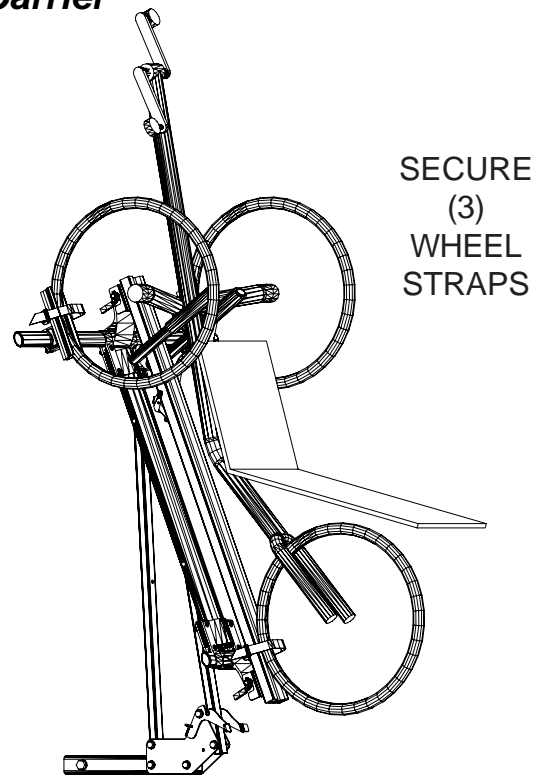
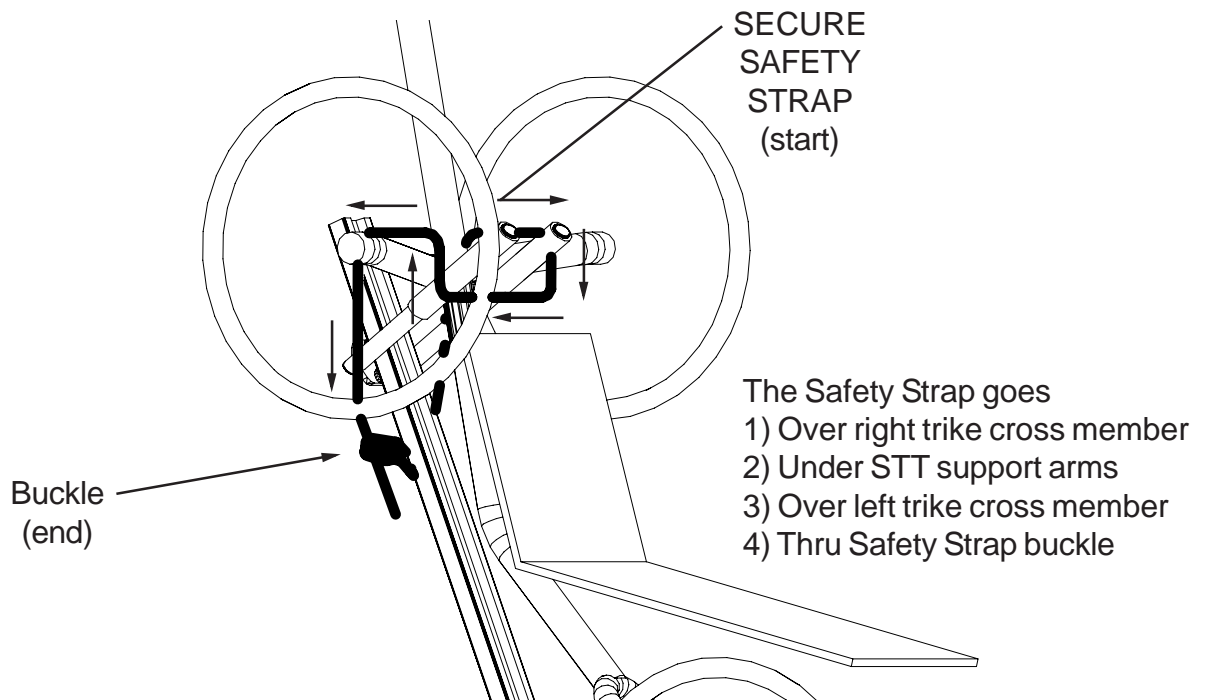


Figure 5B



INSERT SAFETY PIN  
ON INTERCONNECT

Figure 5C