

Amtryke® ProSeries Model #1416 50-FC-1416 and ProSeries Model #1420 50-FC-1420



Tools Needed for Assembly

8 mm Socket or Wrench
12 mm Socket and Wrench
14 mm Socket or Wrench
7/32 Allen Wrench
Needle Nose Pliers
Utility Knife

10 mm deep well socket or wrench
13 mm Socket or Wrench
15 mm Socket or Wrench
5/32 Allen Wrench
Phillips Head Screwdriver

Carton Contents

Carefully remove and lay out all parts from the carton so as not to scratch or lose any parts or pieces. The shipping carton should contain the pictured items on the parts pages.

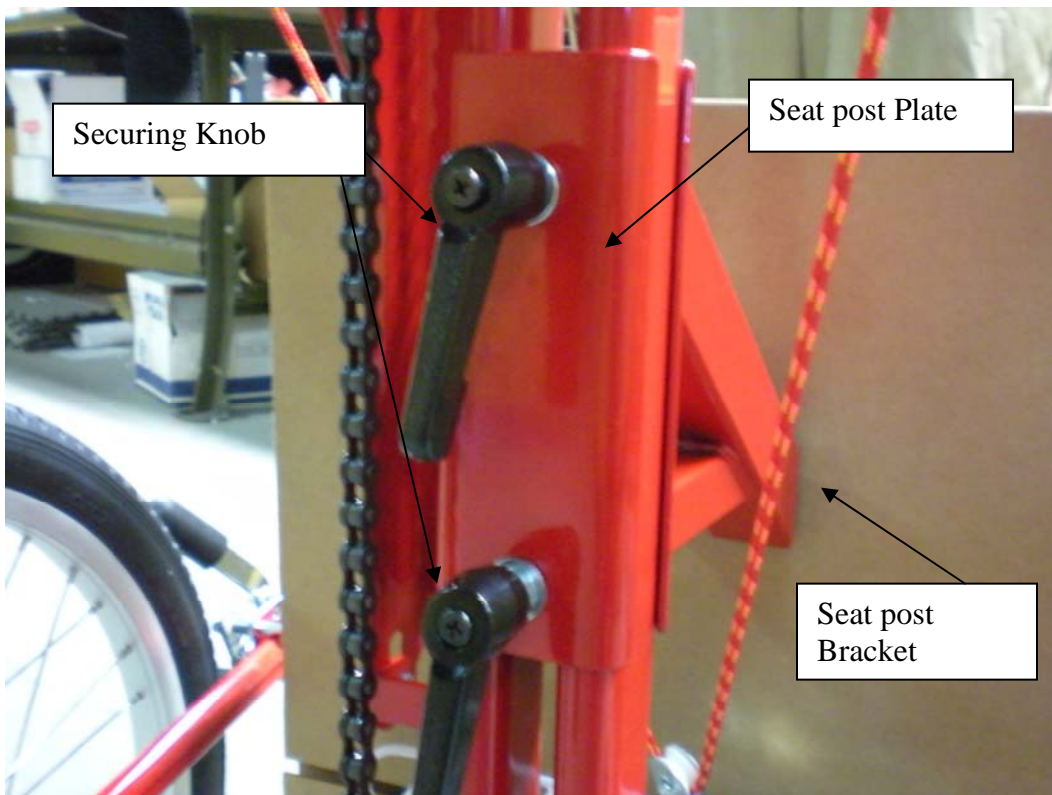
Pro Series 1416 and 1420

Additional Instructions for Seat Post and Basket

These additional instructions are being provided as a supplement to the normal instructions for assembly provided for the 1416 and the 1420.

Seat Post Installation

- 1) Place the red seat post bracket on the frame and from the underside place the plate and install one securing knob at a time with washer until tight.



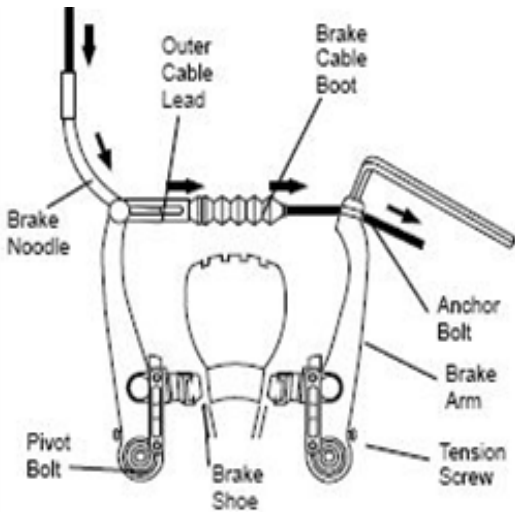
Basket Installation

- 1) Place basket on black metal plate and align up the slotted holes with the holes in the black metal plate.
- 2) Insert one Phillips head screw into each hole and turn clockwise to tighten.
- 3) Place chrome metal brace over basket as shown in photo and use two 12mm bolts and nuts, tighten securely.



V-Style Brakes

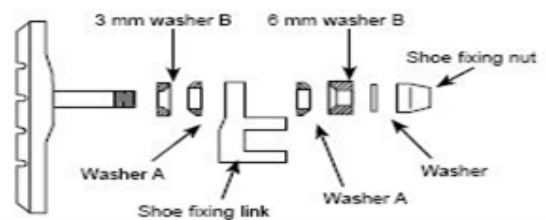
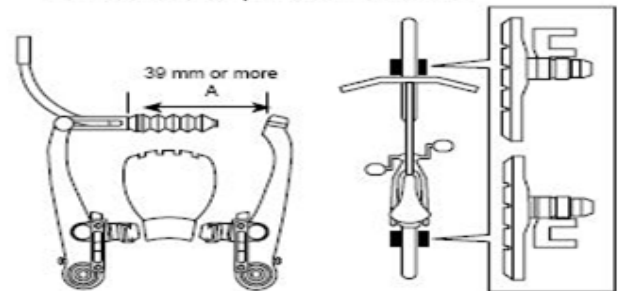
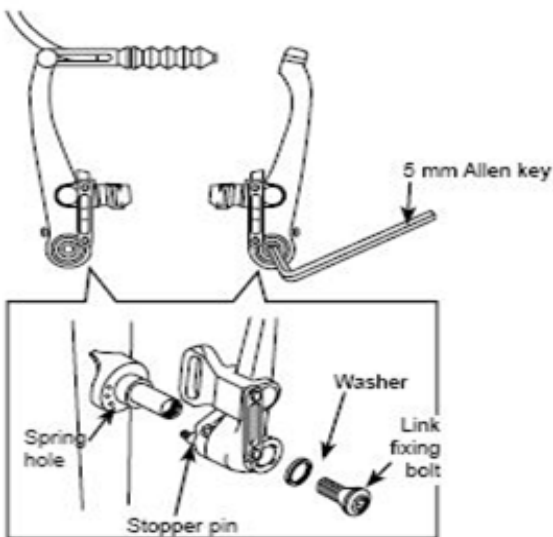
If not already assembled, take the brake noodle from the parts box and slide the cable through the larger opening. The cable housing will then seat into the end of the noodle. Slide the cable through the cable lead on the end of the left brake boot arm; this will cause the noodle to fit into the lead. Slip the brake cable boot over the cable and position it between both brake arms. Next loosen the 5mm anchor bolt at the end of the right brake arm and slide the cable under the retaining washer. Pull the slack out of the cable making sure a distance of 39mm or more remains between the end of the lead and the start of the anchor bolt. Once the cable is secured to the brake arms, engage the brake lever several times, checking the position of the brake shoes at the rim. The brake shoes should be 1mm away from the rim when in a relaxed position. When the brake lever is engaged, the brake shoe should hit the rim flush (never the tire) with the front brake pad touching the rim slightly before the rear. This is called “toeing-in” your brake shoe. If this position is not achieved, adjustments to the brake shoe are required. Loosen the brake shoe hardware and reposition the brake shoe. It may take several shoe and cable adjustments before the required position is accomplished.



V-Brake

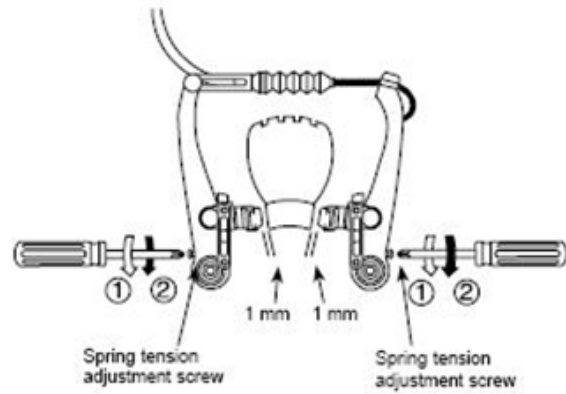
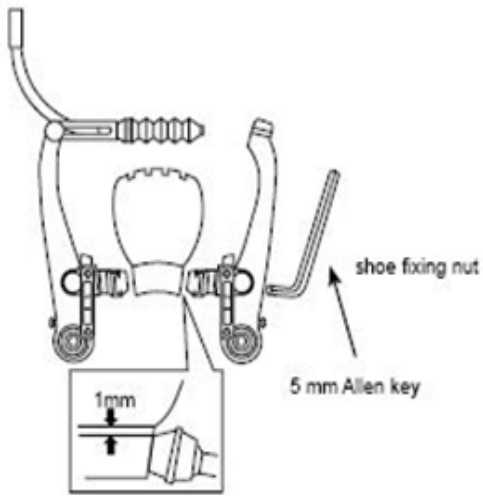
1. If fitted with V-Brakes, insert the brake body into the center spring hole in the frame mounting boss, and then secure the brake body to the frame with the link fixing bolt.

2. While holding the shoe against the rim, adjust the amount of shoe protrusion by interchanging the position of the B washers (i.e. 6 mm and 3 mm) so that dimension A is kept at 39 mm or more.



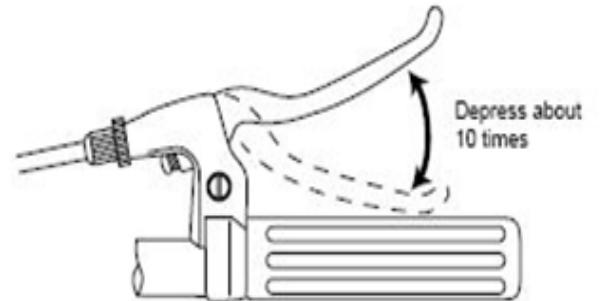
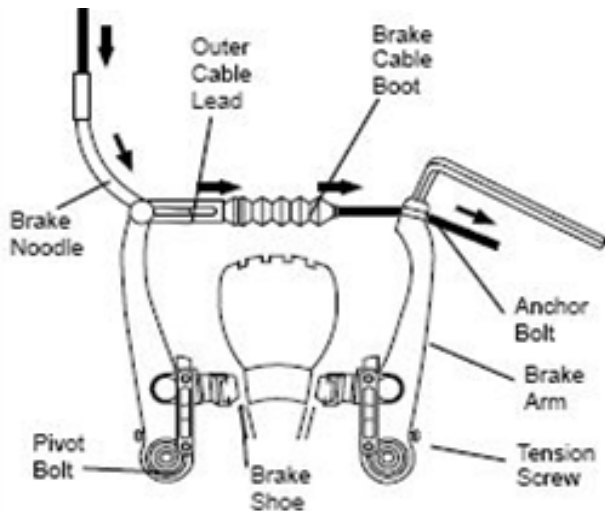
3. While holding the shoe against the rim, tighten the shoe fixing nut.

5. Adjust the balance with the spring tension adjustment screws.



4. Pass the inner cable through the inner cable lead. Set the cable with the clearance of 1mm between each brake pad and the rim, tighten the cable fixing bolt.

6. Depress the brake lever about 10 times as far as the grip to check that everything is operating correctly and that the shoe clearance is correct before using the brakes.



Cable Retainer

2) REAR WHEELS ASSEMBLY

- a) Inflate tires to proper inflation pressure, 35 psi.
- b) The 2 rear wheels are the same (black hubs with 3 holes). The right side hub has three (3) pins that insert into wheel hub. Install the drive wheel first (right side) , add washer, and tighten the bolt on the axle, allowing wheel to spin.
- c) **** CAUTION: OVER-TIGHTENING WILL DAMAGE THE BEARINGS.**
- d) Put the idler wheel on the left side. First slip on the spacer, then the wheel, followed by a washer and the locking nut. Tighten nut until it touches the bearing, do not over tighten.
- e) Cover axle nuts with white plastic protectors.

Note: Right wheel (drive wheel) nut should be tighter than left wheel (idler wheel).

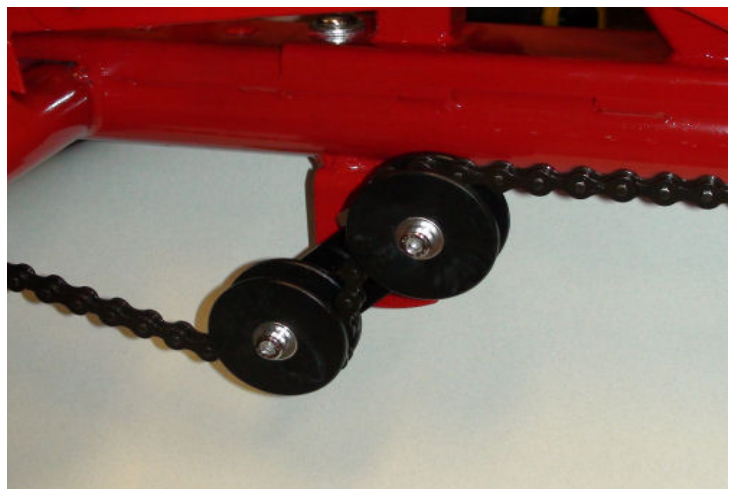
3) FRONT WHEEL ASSEMBLY (Figure 4)

- a. Loosen nuts on both sides of wheel axle.
- b. Slide fork onto wheel axle. Note: Safety washers go on outside of fork.
- c. Tooth on safety washers insert into hole on the fork.
- d. Tighten nut and washer securely.
- e. Follow same sequence on other side making sure wheel is centered onto fork while securing.



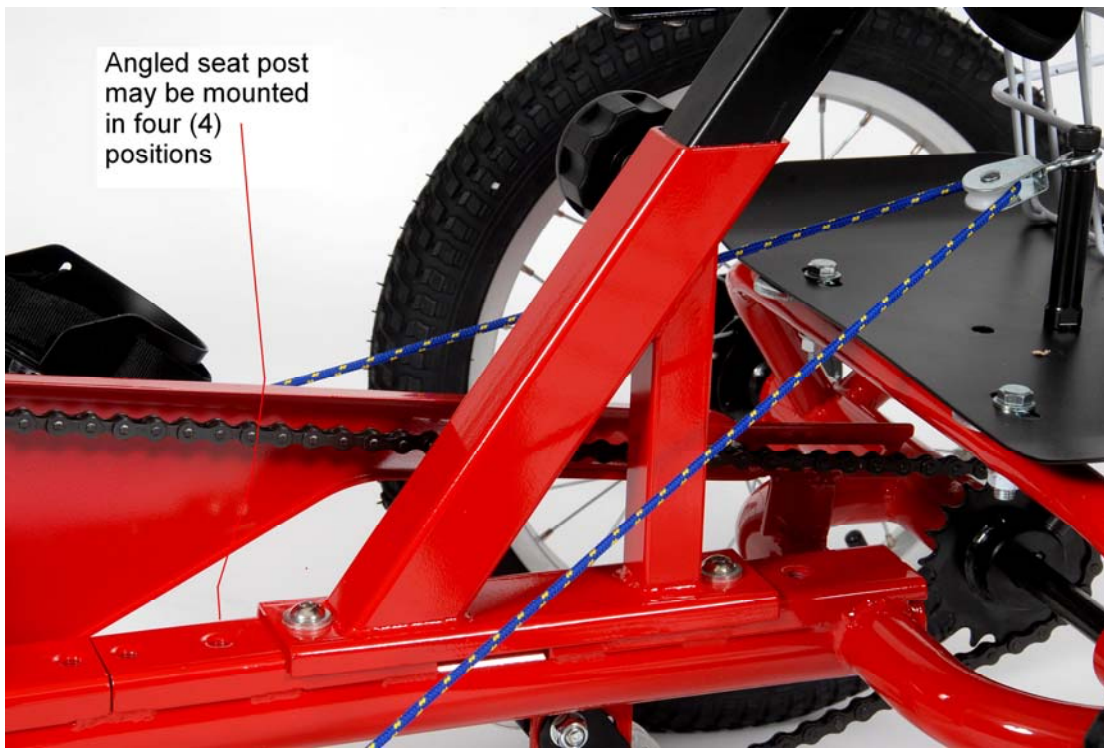
4) CHAIN TENSIONER ASSEMBLY

- a. No adjustment should be needed to the chain tensioner assembly.
- b. If you decide to change the position of the front sprocket and foot crank assembly, you will need to use the tensioner to adjust the chain.
- c. This is accomplished by loosening the two bolts, turning the chain tensioner to the desired position, and re-tightening the bolts securely.



5) SEAT POST FRAME ASSEMBLY

- a) The red seat post assembly may be mounted in four (4) positions on the main frame.
- b) Choose whichever set of holes will best fit the rider's size and ability.
- c) Make sure the adjustment knob is on the right side (chain side) of the frame. Use the Allen head bolts, extra thick washers, and tighten with the 6 mm Allen wrench (included).



6) SEAT ASSEMBLY

- a. The black seat bracket comes pre-assembled. Use the spring-loaded knob to adjust the height of the seat post for your rider. Pull on black spring loaded knob and adjust so the pin pops into one of the holes in the seat bracket. Once you have selected the seat height for the rider, the spring loaded knob will click into place - then hand tighten securely. It is not necessary to remove the seat post knob - just loosen and pull to release the pin for adjustments.

Spring loaded knob



- b. Mount the saddle seat by inserting the seat clamp onto the seat post. Adjust seat to proper level. Secure by tightening nuts evenly on both sides of seat clamp using 15 mm wrench (included). A 9/16" wrench or socket wrench is also suitable here.

Seat Clamp Nuts



7) BASKET PLATFORM ASSEMBLY

- a) Mount the black basket platform assembly onto the rear of the frame behind the seat using 1 3/4" bolts with nuts and washers. The flared sides go up.



- b) The black metal basket bracket mounts using the same bolts that fasten the platform to the rear frame. It mounts to the bottom of the frame with the small bars facing out.



- c) Mount basket into slots in bracket. Use the optional screws if basket is permanent attachment.

8) HANDLEBAR AND STEM

- a) Remove black plastic cap from handle bar stem. Insert stem of handlebar assembly into fork head tube. ****NOTE: THE STEM MUST BE INSERTED INTO THE FORK HEAD TUBE TO AT LEAST THE MINIMUM INSERTION LINE**



- b) Secure stem by tightening stem expander bolt (located under the gray plastic cover at top of stem – check in plastic bag for small gray plastic cap) using a 6mm Allen wrench (included). Be sure to center stem with the front wheel. Replace gray plastic cover.



- c) Loosen the 2 hex head screws located on the top of stem and remove handlebar clamp. Place the handlebars on the stem and replace the handlebar clamp.



d) Tighten 2 hex head screws at top of stem to tighten Handlebar clamp.

e) Use quick release levers to adjust handle bar position and tighten securely.



11) PEDALS . NOTE: there is a right and left pedal indicated by an L or R on the end of each pedal axle.

a) Mount left pedal onto left crank arm. Left pedal tightens left. (towards the front of the tryke) Mount right pedal onto right crank arm. Right pedal tightens right.(towards the front of the tryke). Use 15mm wrench to tighten.

****NOTE: BE CAREFUL WHEN THREADING PEDALS. DO NOT FORCE!! PEDALS THREAD EASILY WHEN INSTALLED PROPERLY.**

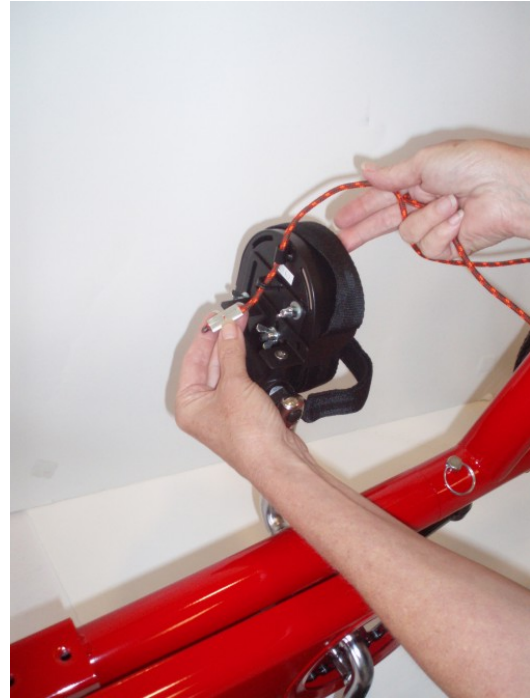


b) Pedals adjust to size. Length can be shortened or lengthened to fit foot. Position of pedal over axle can also be adjusted. Use the quick release wrench slotted end to easily loosen and tighten wing nuts.



12 PEDAL LEVELER ASSEMBLY

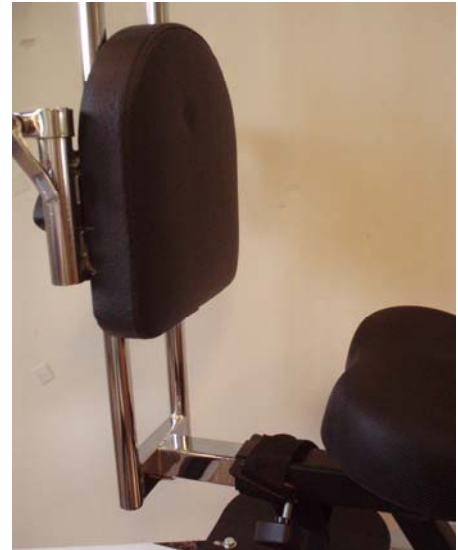
- a) Screw pulley block assembly into hole in black basket platform. Thread cord through left side pedal from inside, then through the pulley on pulley block assembly and into rear of right pedal.



- b) Pull snug until pedals remain level and crimp copper stop at appropriate spot on cord. (Alternately, tie knot in cord to appropriate length.)

13 SEAT BACK SUPPORT ASSEMBLY

- a) Slide the chrome seat back support assembly onto the black seat support bracket. Tighten with the black knob that thread into bottom corner of the bracket.
- b) Make sure the padded seat back can slide up and down the assembly. Position it where desired and tighten with the two knobs on the back.



- c) Mount brackets for the Lateral supports if desired.
- d) Lateral supports slide into brackets and tighten with cam levers. **NOTE: LATERAL SUPPORTS ARE GROOVED ON BOTTOM AND SLIDE INTO SUPPORTS.**



14 SEAT BELT ASSEMBLY

- a) Seat belt or lap strap is pre-installed. Make sure hook fastener faces away from rider.

15 WHEEL REFLECTORS

- a) Mount one reflector in each wheel, using plastic nuts to secure reflector to spoke of wheel.

16 STEERING PIN INSTALLATION

- a) The steering inserts into the front fork tube from the side.
- b) The top position locks the steering straight ahead. This allows for easy transfer or if the child needs assistance with learning to steer properly.
- c) The lower position limits the steering to 20 degrees in either direction. This is very helpful in limiting the turning radius of the tryke. It keeps a rider from over steering and adds to safe riding.
- d) Install the adhesive hook strip to the frame to keep the steering pin secure form loss.



Installation Instructions for the safety Loading Brake

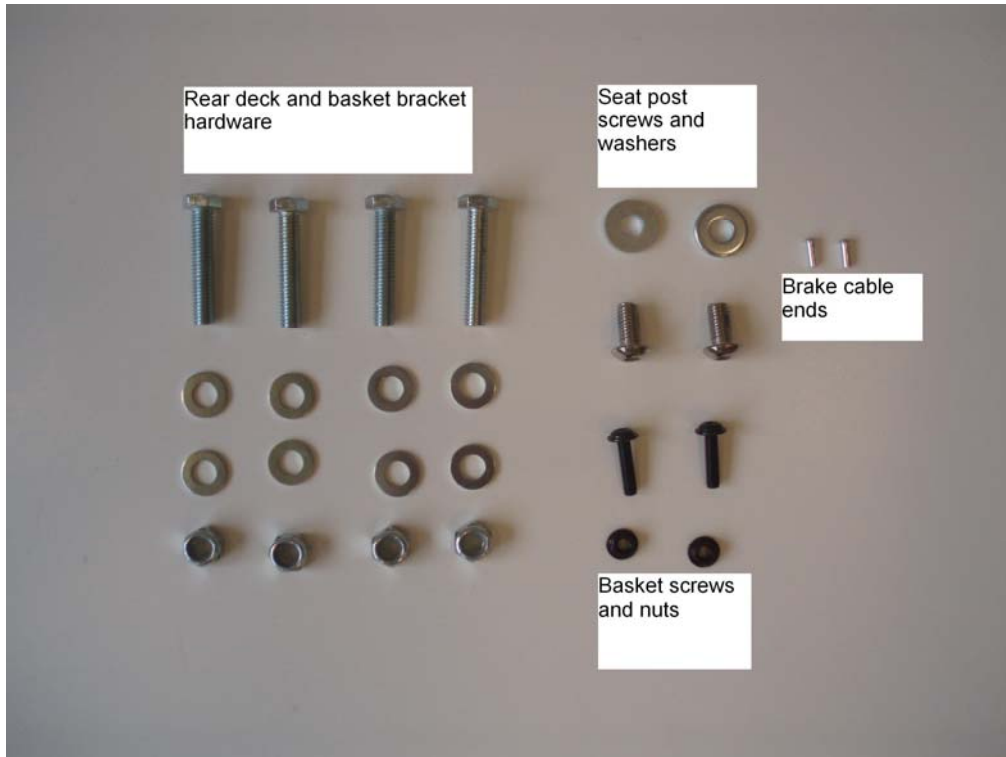
- 1) Remove the two Allen bolts from the loading brake extension tube.
- 2) Place the loading brake extension tube over the right rear axle so the handle is pointing towards the front of the AmTryke, making sure the handle is in the down position and over the tire.
- 3) Install the two Allen bolts up through the attached bracket on the right rear axle and then turn them clockwise into the loading brake extension tube. NOTE: *the tube angles slightly outward to position the brake over the tire be sure the foot of the bracket is fully on top of the red axle tube.*
- 4) Use the double ended Allen wrench provided with your AmTryke to tighten up the two Allen head screws from the bottom.



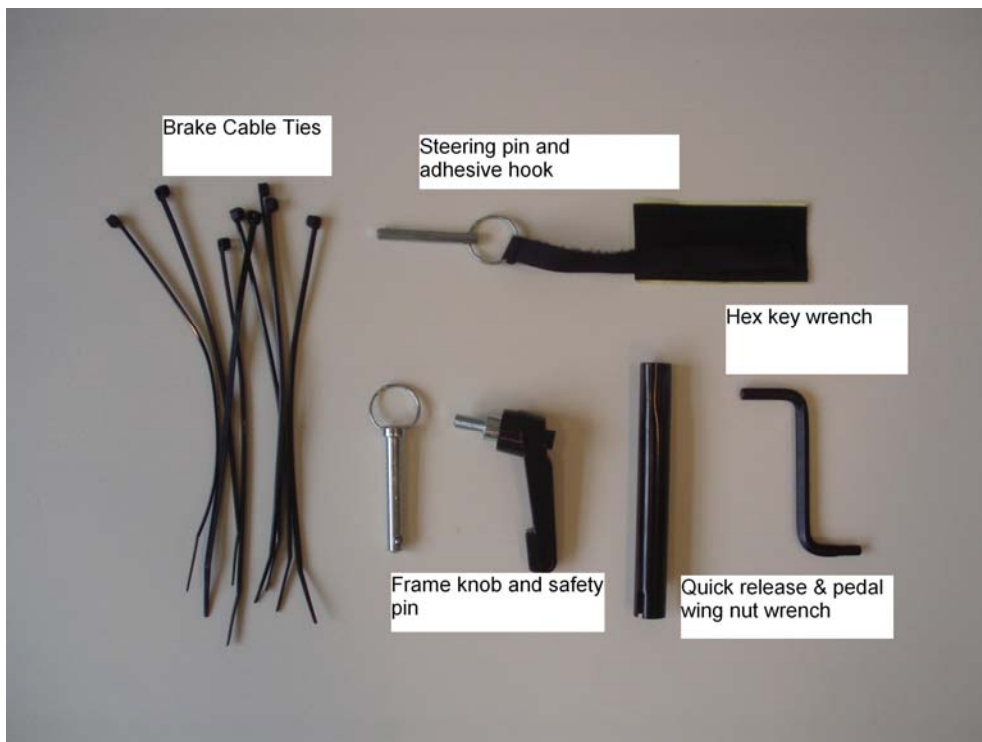
Parts Box



Parts Bag



Parts Bag 2



Optional Hand Brake Components

Part# 30-24-0010

Front Brake Caliper



Locking Brake Lever



Front Brake Cable



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5. Compliance with laws, government regulations, orders or requirements, or any cause beyond our control.

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ProSeries 1416 #50-FC-1416
ProSeries 1420 #50-FC-1420

The ProSeries 1416 and ProSeries 1420 positive drive trikes provide full support to riders with low tone, trunk control. They can be adapted to meet the need of a wide size of riders, as four seat post positions accommodate multiple leg lengths. The saddle seat and 1400 seatback can be positioned up/down and in/out. The adjustable lateral supports with chest strap add additional trunk support. Quick release cam levers allow

positioning the telescoping handlebars to any height or distance to the rider. Expanding pedals with 2 straps adjust from 7 inches to 10 inches and the positioning over the pedal axis is also adjustable. A loading brake makes transfer of rider safe and easy. The ProSeries 1416 and 1420 can be adapted with a wide variety of seating options and accessories so that most riders can feel safe and secure.

