AmTryke 1424 Community Cruiser Hand Cycle Repair

The following instructions are for replacing your existing 1424’s main frame with the redesigned and improved version. This is in response to the recall of frames declared in spring of 2015. This repair is considered to be of intermediate difficulty; be advised that it will require adjusting positioning of both brake lines and chain. Please notify Amtryke, LLC when you have completed this remedy, as it must be reported to the FDA. If you feel unable to handle this repair in a competent manner please contact Amtryke, LLC for additional support.

Below are the tools you will need in order to complete this repair:

*Socket Wrench, with Extender Arm*

*Sockets – 10mm, 13mm, 22mm*

*Flat-Blade Screwdriver*

*Hex/Allen Head Wrenches – 4mm, 5mm, 6mm*

*Pliers*

*Rubber Hammer (if needed)*
Step 1:
Remove your seat from the rear frame. As a point of reference, you will need to reattach your seat to the new replacement rear frame. A socket wrench will be needed with a 3/8 extender arm for the bottom bolts of the seat. Each bolt and nut (4 total) measures 13mm. Remove bolts and washers and place in a convenient location for reassembly. Please remove foot platform from bottom section of the rear frame (6mm hex wrench).

Step 2:
Remove the chain tube support bracket (v-shaped) from the handlebar stem as seen in the picture below with a 4mm hex wrench. Next, remove the large steering centering spring connecting the fork and the front fork assembly. BE ADVISED that this spring is under tension so proceed with protective eyewear during removal. Remove spring by holding the lower hook of the spring with pliers; pull down and disengage the spring. Loosen the eye bolt from the bottom of the front fork assembly with a 10mm wrench. Go ahead and install it on the replacement front fork assembly.
Step 3:
You will now need to remove the handlebar stem from the front fork assembly. Loosen the two 5mm collar hex screws. Push the hand cranks downward. This will loosen the chain and you can remove the chain from the upper chain ring (sprocket). Now remove the handlebar stem and hand crank assembly. Take care not to damage the gear and brake cables.
Step 4:

Now you will remove the front fork assembly. Loosen the threaded locknut at the top of the fork. Next, remove the head cup. Now, remove the keyed lock washer. Carefully remove the upper ball bearing – NOTE: be careful to note proper direction of ball bearing – it must be installed in the new fork properly – with the balls facing down. Now slide the front fork frame off of the front fork. Go ahead and insert the front fork into the new front fork assembly – NOTE: be careful to keep the lower ball bearing assembly on the fork. The bearing must be installed in the bottom cup of the new frame.

![Remove threaded locknut, head cup, ball bearing](image)

Step 5:

Now reverse the steps above to re-install the handlebar stem onto the new front fork assembly. Install the upper ball bearing. Install the head cup. Install the threaded lock nut. Slide on the collar stem but do not tighten it yet.
Step 6.

Next reinstall the handlebar stem. Push it far enough into the fork so you can reinstall the chain. Once the chain is properly installed on the upper and lower sprockets – pull up on the handlebar stem to tighten the chain correctly. The chain should have about 1/2 inch of deflection when pressed by a finger. Make sure your handlebar stem is correctly aligned with the front wheel. Tighten the two hex bolts on the collar using a 5mm allen wrench. Reinstall the chain tube support bracket onto the handlebar stem. Now you can reattach the steering centering spring onto the front fork assembly.

Step 7.

Complete the assembly of the rear frame. The back tires can now be removed using a 22mm socket and ratchet wrench – or a large adjustable wrench. Install the rear wheels on the new rear frame. Note – do not overtighten the wheels. Once secure – back off the axle nuts ¼ turn. Attach the new front fork assembly onto the new rear frame. Secure both pieces using the silver safety pin and the threaded lever. Use the lever from your existing tryke and install it on the new frame. NOTE: Both the safety pin and the threaded lever MUST be installed and securely tightened.
Step 8:

Reinstall the seat assembly onto your new frame. Each bolt (4 total) measures 13mm.

Final Steps:

Replace your foot platform to the new rear frame using a 6mm hex wrench. Double-check your tightening work on the rear frame; such as the seat, wheels, safety pin, and lever. Test your work by riding your tryke a short distance. If everything feels secure then you’re ready to ride!

Please contact either member found below once you have completed your installation. We MUST keep a record of all responses for the FDA recall. Thank you for your understanding.

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