

Utah Trikes Catrike Extension Kit

Congratulations and thank you for purchasing the Utah Trikes Catrike Extension Kit. Much design and testing has gone into this kit to make it work as well as possible and give the maximum benefit. The Extension pieces are designed to work with all 20-inch Catrikes with the current dropout design used on the 2005-2010 Catrike models. Our Extensions are CNC milled to fit perfectly over the dropouts and rely on this fit to provide maximum strength with no loss of rigidity. The shape of the Extensions and placement of the larger wheel is designed to maintain a level frame with no adverse effect on steering geometry. The slightly longer wheelbase and larger tire will make your trike roll faster and give you a smoother ride.

The **Basic Extension Kit** comes with the following hardware:

- Qty 4: M5x12mm bolts
- Qty 2: M10x20mm bolts
- Qty 1: M5x20mm bolt
- Qty 1: M5 locknut
- Qty 1: M10 locknut
- Qty 1: 9-sp chain piece
- Qty 1: Master link

Bolts included with the kit are grade 10.9 to provide maximum strength. All provided bolts and nuts must be used.

Our **Chain Rerouting Kit** includes the following:

- Qty 1: Idler clamp (Single hole or adjustable, depending on kit version)
- Qty 1: TerraCycle Power Idler (Sport aluminum or Elite titanium, depending on kit version)
- Qty 1: Floating idler bolt with half nut
- Qty 1: Chain keeper

Rerouting kit is pre-assembled. Idler clamp needs to be taken apart for installation.

Installation of the kit will require disconnection and rerouting of your chain. A piece of chain and master link has been included with the Basic Extension Kit. The piece of chain included is the proper length if you are using one of our chain rerouting kits, assuming your boom length is set and the chain length is already properly configured.

The right Extension is designed to use your existing derailleur hanger. The hanger must be used to provide the necessary spacing for your wheel's axle. If you are using a derailleur (instead of an internally geared hub) it will be necessary to move the derailleur to the new position on the right Extension and adjust it for proper shifting alignment. Instructions on how to adjust derailleurs can be found online or in Park's Big Blue Book. If this is beyond your capabilities we recommend taking your trike to a competent bike shop for adjustment.

Installation instructions:

Preparing for installation:

Disconnect your chain at the master link. You will save yourself some time if you open the chain at the rear of the trike.

Remove your existing wheel.

Remove your derailleur. You should not need to disconnect the cabling.

Remove the derailleur hanger.

Remove any racks, fenders, bolts, or any other accessories

Make sure that your dropouts are clean with no debris.

Installing Extensions:

Install the left Extension using the 10mm bolt and nut, 2 x M5x12mm bolts, and M5x20mm bolt and nut.

Install the right Extension using the remaining hardware.

Install the derailleur hanger on the left Extension.

Install your new larger wheel.

Installing Rerouting Kit, derailleur, and chain:

Install the appropriate chain rerouting kit. The kit should be placed with the chain keeper on the top side. The idler will reroute the chain above the wheel stay. We recommend tightening the clamp after the chain is in place to get the best positioning.

Install the rear derailleur on the derailleur hanger.

Splice the provided chain extension with the master link. Route the chain through the new rerouting kit, around the rear cassette, and through the derailleur normally. Connect the master link to finish the chain installation.

Adjusting Rerouting Kit:

To set the final idler position of the Rerouting Kit we suggest setting the derailleur such that the chain is on the smallest sprocket to the right. Position the idler as forward as possible, but so that the chain clears the frame. Once positioned tighten the idler clamp. The idea is to keep the chain angle as close to parallel with the chain stay as possible.

Note: Our series #2 Rerouting Kits feature an adjustable clamp to move the idler down to a mid-frame position.

Final Setup:

With the wheel, derailleur, rerouting kit, and chain installed it may be necessary to adjust your derailleur for proper shifting. Due to the precision of our Extension Kit only minimal adjustment should be necessary.

Rear Brake Option:

If you will be adding a rear brake to your Extension that should be the final step. Our Extension Kit will work with a standard 160mm rotor and rear caliper mount with 51mm spacing. Connect as necessary. Be aware that the use of a rear brake on a tadpole trike can be potentially dangerous. Please test rear brake thoroughly before using it in critical applications.

If you have any questions about the installation and use of the Utah Trikes Catrike Extension Kit or related Chain Rerouting Kits please email us at trikes@utahtrikes.com.

NOTE: In mid/late 2004 Catrike started using the newer dropouts found on current models. These extensions will only work with these current/newer style dropouts.

IT HAS COME TO OUR ATTENTION THAT SOME OF THE DROPOUTS USED ON PRE-MARCH-2008 MODELS HAVE 3MM DIFFERENCE ON THE TOP CIRCULAR PIECE. THE REST OF THE DROPOUT IS THE SAME. IN ORDER TO FIT THE EXTENSIONS ON IT WILL BE NECESSARY TO MAKE A SMALL CUT IN THE EXTENSIONS TO GO AROUND THIS PART. A DREMEL TOOL, DRILL BIT, OR FILE WILL WORK. IF YOU KNOW YOUR TRIKE QUALIFIES FOR THIS TIME FRAME WE CAN MAKE THIS SMALL NOTCH FOR YOU PRIOR TO SHIPPING.