

Windcheetah Idler Kit Instructions

Introduction

This idler kit is specifically designed to replace the stock idlers/blocks on Windcheetah recumbent trikes.

Windcheetah trikes have varied a lot over the years. If you have a very old Windcheetah, it is possible you will need a clamp on idler mount for the front idlers, as the cruciform casting does not have enough room for a modern sized idler. If this is the case, please contact us. The adjustable height clamp on rear idler setup included in this kit has plenty of range for all known Windcheetah versions.

Tools Required

The following tools are required for installation:

- 4mm allen wrench for chainkeeper and clamp on mount
- 5mm allen wrench for the sliding block adjustment bolts
- 6mm allen wrench for idler spindle bolt
- Chain breaking tool or Quick Link and a piece of wire

Installation Instructions

Installation is easiest with the trike on a stand, but it's not required. Installation is pretty straightforward and should only take 15-30 minutes.

1. Remove the Original Idlers

- Remove the idler mount bolts and remove the idler assemblies entirely.
- If you have a plastic block for the return idler, you will need to open the chain to remove the block. A piece of wire to hold the ends of the chain from slithering away will save you considerable trouble.

2. Install the Front Idlers

The front idlers install as shown

- Loosen the pinch bolt on the new chainkeeper and slide the keeper off the 8mm bolt.
- Install the new idlers. Note that you should not remove the idler, spacers, or jam nut from the bolt; simply thread the bolt in with everything on it. Tighten firmly.
- Put the chains onto the idlers. Note the power side chain goes on the toothed idler on the inside.
- Slide the chain keeper back on. Adjust the angle so the keeper arm is at the apex of the chains. Tighten the pinch bolt to lock the keeper to the idler bolt.

3. Install the Rear Over/Under Idler

Start by locating the mount on the frame in the area under the seat as shown. Note that the clamp on mount has a sliding block with

multiple holes in it. You will want the sliding block on the top side of the main tube.

- Loosen the pinch bolts on the new chainkeeper and slide the keeper off the 8mm bolt.
- Using the 6mm allen wrench, temporarily remove the idler and spacers from the mount.
- Attach the mount under the seat in the approximate position shown. Tighten the clamping bolts alternately and evenly while making sure the mount is vertical.
- If you haven't done so already, open the return side of the chain and route it over the seat mount.
- Holding the bolt with the idler and spacers, install the chains onto the idler. The return chain goes on top, on the urethane bed on the outside. The power side chain goes under the cog side. Note that you should not remove the idler or spacers from the bolt.
- Pick a mounting hole on the sliding plate that keeps the return chain above the seat mount and the power side chain below the seat mount. Temporarily install the idler there. Be careful starting the bolt into the threads in the sliding block.
- Test the adjustment by cranking the pedals forward and back. While cranking forward, the chains should both clear the seat mount by equal amounts.
- Adjust the position of the idler and/or mount accordingly. Moving the idler mount closer to the seat mount will expand the gap between the chains and the seat mount. The idler can be mounted in any of the 5 holes on the sliding plate, and the sliding plate can be moved up and down. If necessary, the sliding plate can be flipped up or down to get more range. **In some cases, both the power and return chains will need to go below the seat mount.**
- When you have dialed everything in, make sure the clamp bolts, sliding plate adjustment bolts, and idler bolt are all tight. Double check the mount is vertical and not rotated on the frame.
- Slide the chain keeper back on. Adjust the angle so the keeper arm is at the apex of the chains. Tighten the pinch bolts to lock the keeper to the idler bolt



4. Test

- Go for a test ride, and make sure nothing is rubbing or binding. The idlers should track with the chain as you shift gears- floating to the inside in low gear and floating to the outside in high gear. The chain should not contact the chain keepers except occasionally, and the chain should not rub on the lugs or the seat mount. Readjust as necessary.

