Big Harvest Distributing

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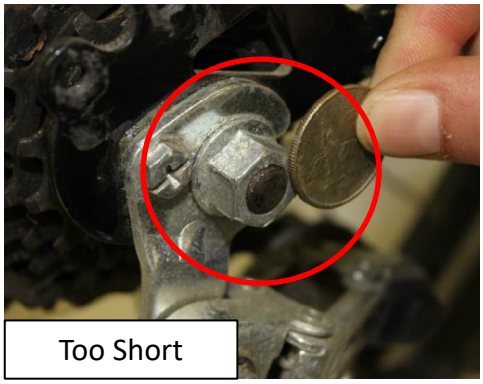
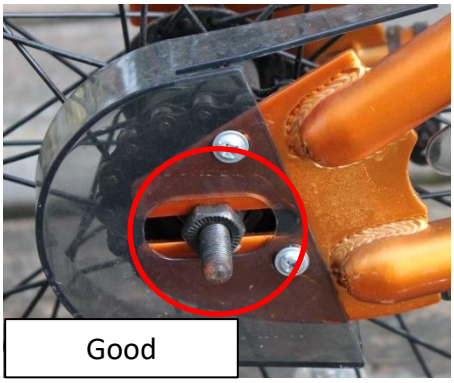
Small and Large FATWHEELS® Assembly Instructions

Thank you for purchasing FATWHEELS®. Please read these instructions thoroughly before you decide whether you should install them yourself or get help from a competent bicycle mechanic.

The first step to installing your new set of FATWHEELS® is to understand whether you will need to use the Axle Extenders. Axle Extenders are provided in every kit but are **NOT** required on many bikes. Axle Extenders are **ONLY** to be used if the bike does not have enough thread on the rear axle or is equipped with a derailleur (gear-changer). If your bike does not require Axle Extender(s), save them for possible use on a future bike as the rider grows.

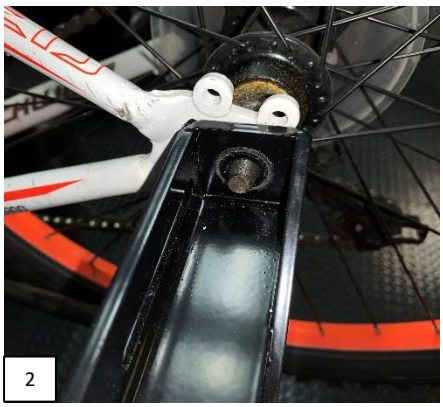
Axle Extenders are only to be used if needed!





With the original axle nut in place, check both sides of the bike's rear axle to be sure the thread sticks out past the mounting nut at least 3/16“ (roughly the thickness of three 0.25¢ coins).

1. Remove one rear axle nut from bicycle (Figure 1). If you have determined that you require Axle Extender(s) **Proceed to Step 2**. Otherwise, slide main training wheel bracket onto axle. The FATWHEELS bracket should touch and sit flat to the frame. (Fig. 2). Replace axle nut and loosely tighten with (usually 15mm) box end wrench or socket (Figure 3). Repeat for opposite side, being careful to maintain proper chain tension and centering of rear wheel in frame. **Proceed to Step 5**.



Axle Extender Installation Procedures

Determining The Thread Pitch

The included Axle Extenders are marked either 24 or 26. These markings describe the thread pitch or threads per inch (TPI) of the extender. Not all bikes have the same size thread pitch or diameter axle. As a rule of thumb, single speed bikes, (pedal backwards to brake), have 3/8" X 24 TPI axles and bikes that have a derailleur, (multi-speed), generally have 3/8" X 26 TPI rear axles.

9/16" and 10mmX1.0mm axles are NOT compatible with FATWHEELS® Axle Extenders!

There are bike models with 9/16" or 10mmX1.0mm rear axles. These bikes *can* use FATWHEELS ® but *only* when Axle Extenders are not required. If the bike is equipped with a long enough 9/16" rear axle you will be required to drill the FATWHEELS® mounting bracket hole to 10/32" in order to mount the bracket to the frame. Bikes equipped with long enough 10mmX1.0mm axles will not require drilling in order to be installed.

2. With the axle nut removed (Fig. 4) and the thread pitch identified, install the flat washer supplied in the axle extender kit (Fig. 5), then install and loosely tighten axle extender. The axle extender should tighten flat against the washer. If the bike's axle is too long and bottoms out in the axle extender, you will need to cut the bike's axle down so that the extender can tighten securely against the frame and derailleur. (Figure 6).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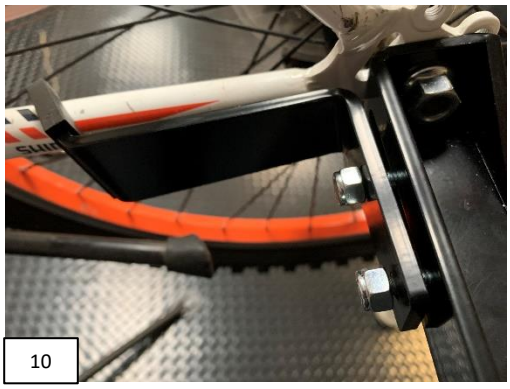
3. Locate the Fork Cap and place it over the Fork (Figure 7).

4. Place the Fork in front of the Main Bracket and align the holes in the Fork with the slot in the Main Bracket. Locate ¼" X ¾" carriage and insert bolts from back to front. Fasten the Fork with nuts facing forward and loosely fasten with a 7/16" wrench or socket (Figure 8).

5. With the Fork in place, push the fork inward to engage the frame fully and tighten carriage bolt nuts to 4 ft/lbs (Figure 9).



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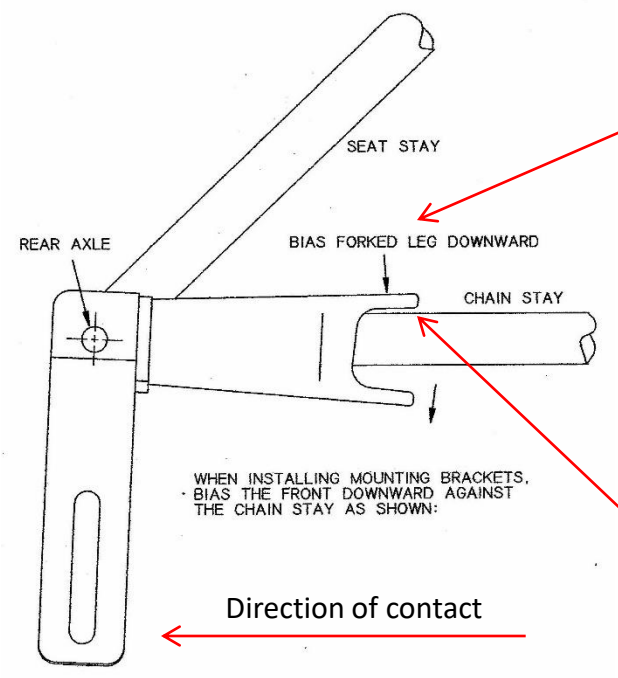
6. Repeat fork installation on other side (Figure 9,10)

7. With Forks installed and carriage bolts torqued to spec, bias fork downward as in (Appendix A).

8. With Forks biased down, tighten the original axle nuts to 25 ft/lbs.

Biasing the Fork



Biasing the fork downwards stops the rotation of the bracket around the axle. This is important when the tire comes in contact with obstacles while riding in a forward motion.

Periodic inspection of the torque (tightness) of the Axle Extender(s) and correct positioning of brackets is recommended.

Appendix "A"

Note: FATWHEELS® Axle Extenders are specifically designed to work with FATWHEELS® brackets only.

Caution: FATWHEELS® products are not to be used with any other training wheel applications. Use of FATWHEELS® Axle Extenders on brands other than FATWHEELS® may cause harm to the rider.

9. With the FATWHEELS brackets mounted and torqued to spec. locate a wheel assembly and remove the flanged nut and first serrated washer (Figure 11). From the outside of the bracket slide the wheel stud through the bracket and install the serrated washer with the serrations towards the bracket. Install the flanged nut and finger tighten to a loose fit so the wheel will move up and down in the slot. Repeat for other side (Figure 12).

10. Place the bike vertically on a level surface and adjust the left and right wheel assemblies so the wheels are either ½" off the ground or in contact with the ground depending on the rider's sense of balance. Measure from bottom side of Main Bracket to center of axle, both sides should match for level riding (Figure 14,15).

11. Using a 15 and 17mm wrench or socket, tighten the wheel mounting nuts to 25 ft.-lbs. (Figure 13). Repeat for other side. Review the installation and be sure to check that all the fasteners are torqued to specification.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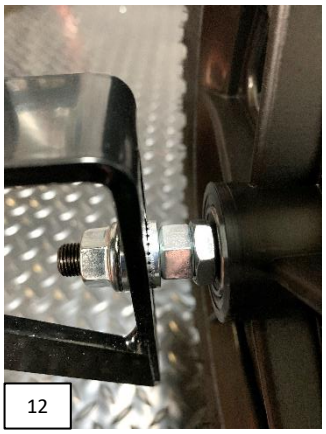
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7. Riders should be surpervised closely until they are confident with their new FATWHEELS®. As the rider learns to keep their balance, the wheels can be adjusted upward and then removed if they no longer require them.