

The Robert Axle Story

We are avid mountain bikers, trail builders and adventurers. We purchased our B.O.B. trailers in the late 1990's and immediately fell in love with the freedom of mountain bike touring. We have also been involved in our local trail building organization, Central Oregon Trail Alliance for over fifteen years.

In 2010, the bike industry added a new "standard" for the attachment of the rear wheel - the "12 x 142 axle" - for mountain bikes. The 12mm axle adds increased rigidity, creating a stiffer, more responsive back end and improved the rear wheel assembly. However, we quickly realized that this new axle did not allow for a trailer attachment, thus the Robert Axle Project began.

We are the authority on attaching bike trailers and trainers to 12mm rear thru-axle equipped bikes.

- B.O.B. Trailers
- Hitch Mounted Trailers - Burley, Chariot, Croozer, etc.
- Yoke mounted trailers - Extra Wheel and more
- Bike resistance trainers
- Bolt on replacement axles

Purchase the Robert Axle that fits your specific bike frame and take your mountain bike on more adventures. Your best bike. Your best adventure.

www.robertaxleproject.com

All of our products are designed, built and tested in the USA.



Hitch Mount Trailer Compatible 12mm Thru-Axle

This axle is compatible with:

- 1.0 mm Thread 12x142
- 1.5 mm Thread 12x142
- 1.75 mm Thread 12x142
- 1.75 mm Thread – Long 12x142
- Fat Bike – 1.5 mm Thread 12 x 177
- Fat Bike – 1.5 mm Thread 12 x 197
- Fat Bike – 1.75 mm Thread 12 x 177
- Fat Bike – 1.75 mm Thread 12 x 197



INSTALLATION INSTRUCTIONS: AXLES FOR HITCH-MOUNTED TRAILERS

WARNINGS AND DISCLAIMERS:

- Before installing your axle for the first time, ensure the axle threads are compatible with the stock axle that came with your bike.
- The non-drive side of the axle has a fixed axle end. If that side were ever to come loose discontinue use immediately and contact Robert Axle Project.
- Never exceed 75 lbs. of weight on the axle attachments.
- Always follow the limits, instructions and warnings provided by the manufacturer of the accessories you are attaching to your Robert Axle.
- Robert Axles for trailers should only be used when trailer is attached. Do not use these axles on your bike without the attached trailer as wider axles could strike trailside objects, providing unnecessary risk of personal injury.
- Understand that the sport you chose to pursue has risks and by adding Robert Axles to your bike you are accepting the responsibility to ensure they are properly installed and maintained.
- Check all torque settings before every ride. Axles must be properly installed and not over tightened into the bicycle frame as this can cause damage to the axle or bicycle.
- Inspect axle frequently for damage or loose parts.
- Damaged or improperly installed axles or interfering parts can cause accidents resulting in serious injury.

WARRANTY:

Robert Axle Project warrants each product it manufactures to be free from defect in material and workmanship for the purpose it was intended to the original purchaser for the duration of one year. Robert Axle Project shall not be liable for damage or delays caused by defective material or workmanship; it is limited to the repair or replacement, at its factory, of any defective article or part thereof, which may be returned to the factory; transportation charges prepaid, by the original purchaser. Robert Axle Project shall be the sole judge of the existence of any defect in the article so returned. No claim for charges incurred in the removal, disassembly, or reinstallation of such article will be allowed.

This warranty shall not cover any article which has been misused or neglected or damaged by accident; any article which has been altered outside Robert Axle Project, or the performance of any accessory or equipment on or in which any article of the company's manufacturer is used. Robert Axle Project shall, in no event, be liable for consequential damage or contingent liability arising out of any total or partial failure to any article manufactured by if or of any accessory or equipment on or in which it used. Failure of a user to give notice of claim as to defect claimed under the provisions of this warranty within sixty (60) days of the appearance of such claim shall constitute a waiver by customer of all claims with respect to such goods and equipment.

No expressed, implied, or statutory warranty other than that herein set forth is made or authorized to be made by the company. If you believe you may have a warranty or shipping issue, please email us for an RA Number prior to any returns.

Tools required:

- 5 mm Hex Key (a.k.a. Allen Wrench)
- Loctite #242 "Blue"

Suggested tool:

- 17 mm Torque wrench or Cone, Socket or Box-End Wrench

Assembling your Robert Axle for the first time:

1. Remove stock axle from your bike.
2. Compare the Robert Axle threads to the stock axle that came with your bike. The length of the thread may vary, but if there is any difference in the size of the threads, immediately stop the install process and contact us.
3. Apply a little grease to the exterior threads and shaft of your Robert Axle.

Installing your Robert Axle on your bike:

1. Insert the Robert Axle through the frame and rear wheel, as you would normally do with the stock axle. Carefully engage the threads of the Robert Axle and hand tighten.
2. Insert a 5mm hex key through the hole drilled in the nut on your Robert Axle. Using the 5 mm hex key as a lever, tighten to the equivalent of 15 N*m. "Good and snug". Do NOT over tighten as both the axles and most frames have aluminum threads, which can be stripped.

Fitting the hitch-mount and attaching the trailer:

1. Apply "blue" Loctite to the exterior stainless steel threads of the axle end cap.
2. Install the "hitch" designed for your trailer and place the washer and nut on the 10 x 1 mm threads to hand tighten the hitch to the axle.
3. ***With a 5mm Hex Wrench through the hole drilled in the Robert Axle end cap, hold and prevent the axle from being over tightened as you use the 18mm wrench of your choice to tight the hitch against the axle. Tighten the hitch to the axle at 15 N*m. Be sure not to over-tighten the axle in the frame.***
4. Fit your trailer to your hitch and follow the manufacturer's directions for securing the trailer to the hitch, including use of the safety strap provided with your trailer.
5. Before every use, check torque settings on all pieces.

Removal:

1. Disconnect the trailer from the hitch.
2. With the hitch attached to the axle, remove the Robert Axle from your bike using a 5mm Hex Wrench.

Always double-check your torque settings, the snugness of the rear wheel and the trailer attachments before every ride.