

THE ROBERT AXLE PROJECT

Our story is one of those “started in the garage” stories, as we sought a solution to a problem that we discovered when we tried to attach trailers to our own bikes.

Our mission is to provide the highest quality products that allow families, adventurers, commuters and recreational riders to enjoy traveling by bicycle.

Our vision is for everyone to experience adventures big and small. We believe that the bicycle is not just a two-wheeled vehicle, but also a tool for you to explore your community, your country, or the whole world.

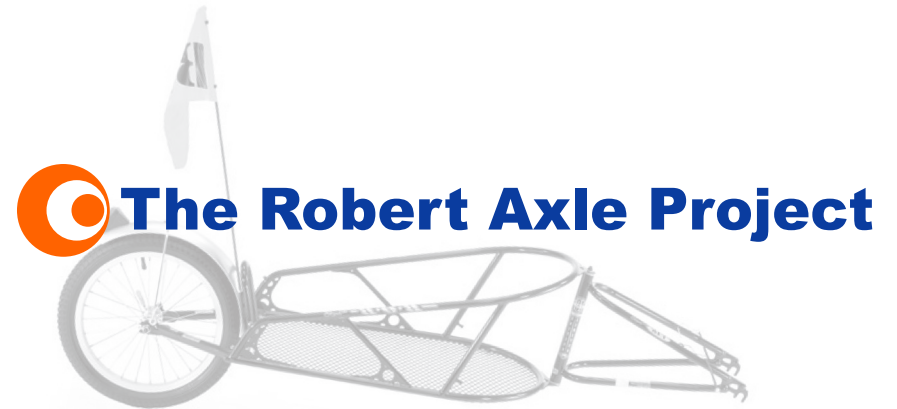
We understand there are two priorities for you. Our product must provide a seamless fit between your beloved bike and your precious cargo. And it must be durable and secure to bring you home from your adventures, whether around town or around the world. We do not accept any compromises in safety or fit of our products.

Our products are designed, tested and manufactured in the USA.

Share the bike love!

Send us photos and stories of your adventures.

Follow us and tag #robertaxleproject:



BOB Trailer 12mm Thru Axle

	Part Number	Description
<input type="checkbox"/>	BOB113.N	NAILD 12x148

www.robertaxleproject.com

INSTALLATION INSTRUCTIONS: NAILD BOB TRAILER THRU AXLE

Tools Required:

- 21 mm open-ended wrench
- Grease
- 4 mm hex key
- Torque wrench with 5 mm hex key adapter
- Rubber mallet
- “Blue” Loctite #242

Remove the NAILD Axle:

1. Remove the stock NAILD axle from the bike and remove the rear wheel. From the derailleur side of the bike, remove the plastic nut and set aside. (Figure 1)
2. Remove the (gold anodized) lock ring from the NAILD system on the derailleur side of the bike, using a 21 mm open ended wrench. (Figure 2)
3. Remove the black NAILD insert from the derailleur hanger by tapping it lightly with a rubber mallet from the outside of the hanger, toward the wheel center. Set insert aside.



Figure 1

Install Robert Axle insert and axle:

1. Install the Robert Axle insert into the dropout from the inside of the frame. **NOTE: The flat portion of the flange should be hand fitted to line up with the flat portion of the dropout.** Make sure the inside face of the insert is flush against the dropout where the hub will contact the dropout. (Figure 3)
2. Lightly grease the threads on the Robert Axle insert. Install the NAILD lock ring on to the Robert Axle insert. Using the 21 mm open-ended wrench, tighten to 10Nm. Do not over tighten.
3. Lightly grease the axle shaft and threads of the Robert Axle. Make sure the tapered spacer that came with the axle is on the axle.
4. Place wheel in frame. Install the Robert Axle from the disc brake side of the the bike. Hand tighten.
5. Make sure the hub and wheel are aligned properly in the frame. Tighten the Robert Axle to 12 Nm. Do not over tighten.



Figure 2



Figure 3

Assemble your Robert Axle for BOB Trailer:

1. Remove the factory “bobbin”, washers (one flat and one lock) and bolts from each side of your stock BOB Quick Release (QR). (Or purchase from www.robortaxleproject.com)
2. Slide a bobbin and washer on to each of the stainless steel axle ends caps on your Robert Axle with the narrow side of the bobbin towards center of the axle. (Figure 4)
3. Secure the bobbins by applying Loctite to the interior threads of the axle end and the bolt from the bobbin assembly.
4. Using a 4mm hex key, tighten the bolt holding the bobbin to the axle. Torque to 6 Nm.

Install your Robert Axle on your bike:

1. Apply a little grease to exterior threads and shaft of the Robert Axle.
2. Insert your Robert Axle through the frame and wheel. Carefully engage the threads of the Robert Axle and hand tighten. Make sure your Robert Axle tightens the frame to the hub before the axle runs out of threads. If this does not happen, stop installation and contact us.

3. Insert 5mm hex key into the cross hole in the Robert Axle end. Use the hex key as a lever and tighten to 12 Nm. Do NOT over tighten axle into frame. On the drive-side, the axle should be flush with or slightly recessed the frame. If the axle protrudes past the frame, take it out and place the enclosed washer on the non-drive side of the axle and reinstall. If the axle still protrudes from the frame, remove the axle and contact us.

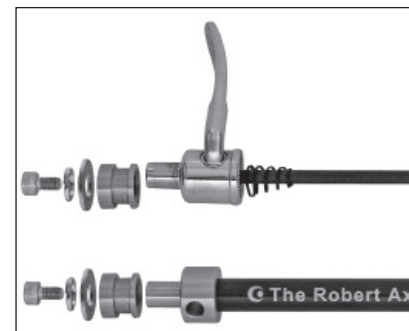


Figure 4

4. Apply Loctite #242 to the interior threads of the non-drive side of the Robert Axle.
5. Thread on the axle end (with the installed bobbin.) The end should tighten flush against the frame and there should NOT be any gap between the frame and axle end. If there is a gap, you will need an additional washer. Torque to 6 N*m. (Figure 5)
6. Follow the BOB Trailer instructions for securing the trailer to the axle. It may be necessary to slightly spread and “cold set” the yoke to fit the additional width of the axle.

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



Figure 5

⚠ WARNING ⚠

- Your Robert Axle must be properly installed with a torque wrench before operating a bicycle and trailer. Proper installation to specified torque values is important to ensure safe use of this axle. If you do not have access to a properly calibrated torque wrench, please have your local bike shop install the axle for you.
- Always follow the limits, instructions and warnings provided by the manufacturer of the trailer you are attaching to your Robert Axle.
- It is the user's responsibility to check the thread pitch on your Robert Axle before installing on your bike. Do not attempt to install a Robert Axle with a different thread pitch from your stock axle. Incorrect thread pitch can damage your bicycle.
- Check all torque settings and inspect all parts before each use.
- Never exceed your trailer manufacturers weight and speed limits for your trailer.
- Robert Axles must only be used when accessory is attached. Do not use a Robert Axle on your bike without the attached trailer. Wider axles can strike trailside objects, providing unnecessary risk of personal injury or death.
- Understand that the sport you choose to pursue has risks. When using a Robert Axle in your bike you are accepting the responsibility to ensure they are properly installed and maintained.

ROBERT AXLE LIMITED 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. Your original dated sales or delivery receipt showing the date of purchase is your proof of purchase. 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. The Limited Warranty does not cover claims from misuse, neglect, failure to follow the instructions, improper installation, improper maintenance and use, abuse alteration, involvement in an accident and normal wear and tear. The warranty does not cover any article that has been altered outside of the 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.

All inquiries should be directed to: info@robortaxleproject.com