

# 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.

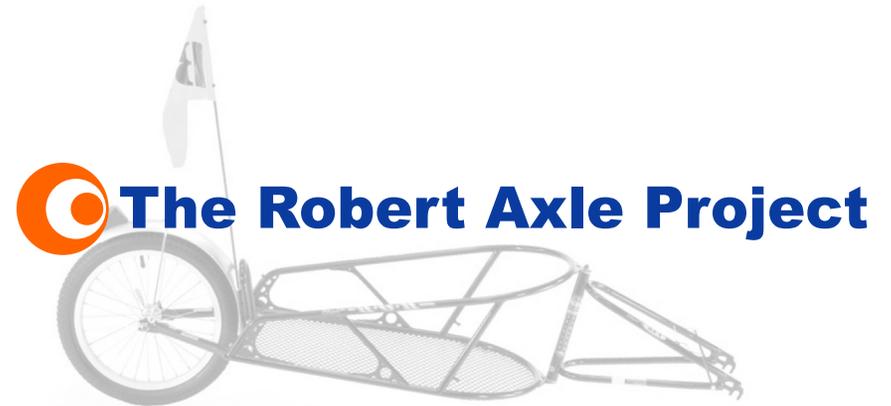
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Send us photos and stories of your adventures.

Follow us and tag #robertaxleproject:



[www.robertaxleproject.com](http://www.robertaxleproject.com)



## BOB Trailer 12 mm Thru Axle

	Part Number	Axle Length	Thread Pitch
<input type="checkbox"/>	BOB117	152 or 167 mm**	M12 x 1.0
<input type="checkbox"/>	BOB113	162, 167 or 172 mm**	M12 x 1.0
<input type="checkbox"/>	BOB116	175 or 181 mm**	M12 x 1.0
<input type="checkbox"/>	BOB115	217 or 229 mm**	M12 x 1.0
<input type="checkbox"/>	BOB112	159 or 165 mm*	M12 x 1.5
<input type="checkbox"/>	BOB104	172 mm	M12 x 1.5
<input type="checkbox"/>	BOB114	172 or 178 mm*	M12 x 1.5
<input type="checkbox"/>	BOB122	182 or 188 mm*	M12 x 1.5
<input type="checkbox"/>	BOB106	209 mm	M12 x 1.5
<input type="checkbox"/>	BOB108	229 mm	M12 x 1.5
<input type="checkbox"/>	BOB121	167 mm	M12 x 1.75
<input type="checkbox"/>	BOB101	174 mm	M12 x 1.75
<input type="checkbox"/>	BOB111	174 or 180 mm*	M12 x 1.75
<input type="checkbox"/>	BOB110	192 or 198 mm*	M12 x 1.75
<input type="checkbox"/>	BOB109	209 mm	M12 x 1.75
<input type="checkbox"/>	BOB107	217 or 229 mm*	M12 x 1.75

\* Axle Length refers to the length of the axle shaft. All axles are compatible with +/- 2mm.

\*\* Lesser dimension is axle shaft measured with the included tapered X-12 spacer. Greater dimension is axle shaft measured without spacer. Only 1.0 mm Thread Pitch axles come with X-12 spacer.

## INSTALLATION INSTRUCTIONS: THRU AXLE FOR BOB TRAILER

### Tools Required:

- 4 mm hex wrench
- 5 mm hex wrench
- “Blue” Loctite #242
- Grease

### Assemble your Robert Axle for BOB Trailer:

1. Remove your stock axle from your bike.
2. Hold up your Robert Axle to your stock axle. Your Robert Axle should:

- Have the same thread pitch as your stock axle. If threads do not match, do not install Robert Axle. Contact us. (Figure 1)
- Be the same length (+/- 2mm) and shape as your stock axle. Use the spacers/washers (if enclosed) to match the Robert Axle to your stock axle. (Figure 2)

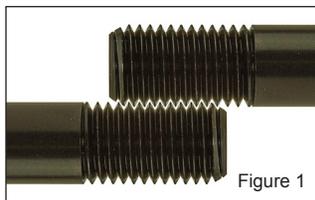


Figure 1

3. Remove the factory “bobbins”, washers (one flat and one lock) and bolts from each side of your stock BOB Quick Release (QR). (Or purchase from [www.robertaxleproject.com](http://www.robertaxleproject.com))



Figure 2

4. Slide a bobbin and the washers on to each of the stainless steel axle ends caps from your Robert Axle. Place the narrow side of the bobbin towards the center of the axle. (Figure 3.)

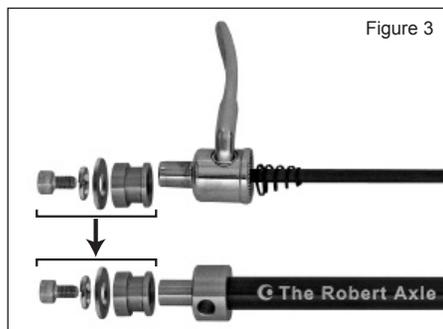


Figure 3

5. Secure the bobbins by applying Loctite #242 to the interior threads of the axle end and the bolt from the bobbin assembly.
6. 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 Robert Axle through the frame and wheel. Carefully engage threads of the Robert Axle and hand tighten. Ensure the 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 the equivalent of 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.***

4. Apply Loctite #242 to the interior threads of the non-drive side of the Robert Axle.
5. Thread on the remaining axle end, with the installed bobbin. It 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 Nm. (Figure 4)
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.



Figure 4

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

### **▲ WARNING ▲**

- Your Robert Axle must be installed with proper torque specifications 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.