

# 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:



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



## Yoke Mount 12 mm Thru Axle

	Part Number	Axle Length*	Thread Pitch
<input type="checkbox"/>	TWO217	152 or 167 mm**	M12 x 1.0
<input type="checkbox"/>	TWO213	162, 167 or 172 mm**	M12 x 1.0
<input type="checkbox"/>	TWO216	175 or 181 mm**	M12 x 1.0
<input type="checkbox"/>	TWO215	217 or 229 mm**	M12 x 1.0
<input type="checkbox"/>	TWO212	159 or 165 mm*	M12 x 1.5
<input type="checkbox"/>	TWO214	172 or 178 mm*	M12 x 1.5
<input type="checkbox"/>	TWO222	182 or 188 mm*	M12 x 1.5
<input type="checkbox"/>	TWO206	209 mm	M12 x 1.5
<input type="checkbox"/>	TWO208	229 mm	M12 x 1.5
<input type="checkbox"/>	TWO221	167 mm	M12 x 1.75
<input type="checkbox"/>	TWO211	174 or 180 mm*	M12 x 1.75
<input type="checkbox"/>	TWO210	192 or 198 mm*	M12 x 1.75
<input type="checkbox"/>	TWO209	209 mm	M12 x 1.75
<input type="checkbox"/>	TWO207	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: YOKE MOUNTED TRAILER AXLES

### Tools required:

- Torque wrench with 5 mm hex key adapter
- “Blue” Loctite #242

### Assemble your Robert Axle:

1. Remove 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)

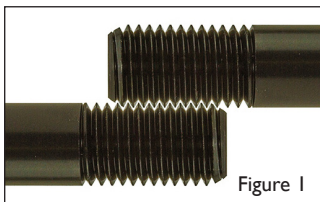


Figure 1

- 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 2

### Install your Robert Axle on your bike:

1. Apply a little grease to the exterior threads and shaft of your Robert Axle.
2. Insert the 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 a torque wrench with a 5 mm hex key into the Robert Axle end and tighten axle to 12 Nm. Do NOT over tighten.
4. Apply Loctite #242 to the exterior threads of the remaining axle end, and to the interior threads of the non-drive side of the Robert Axle.
5. Thread on the axle end. The end should tighten against the frame and there should NOT be any gap between the frame and axle end. Tighten to 6 Nm. (Figure 3)

6. Install the trailer specific hardware, available from your trailer manufacturer, onto the M10x1 threads provided by the Robert Axle ends. Use Loctite #242 on the threads. Do not exceed 6N\*m of torque when tightening to the Robert Axle ends.

7. Follow your trailer manufacturer's instructions on attaching your trailer to your bike.



Figure 3

**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 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 manufacturer's 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@robertaxleproject.com](mailto:info@robertaxleproject.com)