

# 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:



## Indoor Trainer 12 mm Thru Axle

	Part Number	Axle Length*	Thread Pitch
<input type="checkbox"/>	TRA217	154 or 167 mm**	M12 x 1.0
<input type="checkbox"/>	TRA213	162, 167 or 172 mm**	M12 x 1.0
<input type="checkbox"/>	TRA226	171, 175 or 183 mm	M12 x 1.0
<input type="checkbox"/>	TRA224	165 mm	Mavic Speed Release
<input type="checkbox"/>	TRA225	180 mm	M12 x 1.25
<input type="checkbox"/>	TRA212	159 or 165 mm*	M12 x 1.5
<input type="checkbox"/>	TRA204	172 mm	M12 x 1.5
<input type="checkbox"/>	TRA214	178 mm	M12 x 1.5
<input type="checkbox"/>	TRA222	176, 182 or 188**	M12 x 1.5
<input type="checkbox"/>	TRA221	167 mm	M12 x 1.75
<input type="checkbox"/>	TRA223	170 mm	M12 x 1.75
<input type="checkbox"/>	TRA201	174 mm	M12 x 1.75
<input type="checkbox"/>	TRA211	180 mm	M12 x 1.75
<input type="checkbox"/>	TRA202	192 mm	M12 x 1.75
<input type="checkbox"/>	TRA210	198 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.

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



## INSTALLATION INSTRUCTIONS: TRAINER AXLES

### Tools Required:

- Torque wrench with 5 mm hex key adapter
- Grease

### 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)
  - 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)

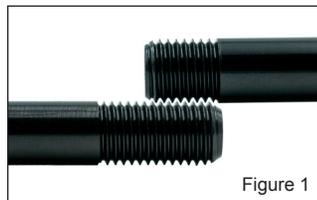


Figure 1



Figure 2

### Install your Robert Axle on your bike:

1. Apply a little grease to exterior threads and shaft of your Robert Axle.
2. Insert your Robert Axle through the frame and rear wheel. Carefully engage the threads of the Robert Axle and hand tighten.
3. Insert a torque wrench with a 5 mm hex key into Robert Axle end and tighten axle to 12 Nm. **Do NOT over 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.
4. Thread on the remaining trainer Axle End cap. The Axle End cap should tighten against the frame and there should NOT be any gap between the frame and Axle End cap. If there is a gap, you will need to install the enclosed washer on the drive-side of the axle. **Tighten to 6 Nm.** (Figure 3)
5. Attach your bike to your resistance trainer following the manufacturer's directions.
6. Before returning to the trails on your bike, you can remove the drive side axle end from the bike, and use the axle as a regular axle.

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



Figure 3

### ▲ WARNING ▲

- Your Robert Axle must be properly installed with a torque wrench before operating a bicycle and trainer. 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 trainer 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.
- 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)