

# 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.

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

TRA223.C



**The Robert Axle Project**

## Indoor Trainer 12 mm Thru Axle

Part Number	Description
<input checked="" type="checkbox"/> TRA223.C	Cervelo with R.A.T. 12x142 (includes derailleur hanger)



## INSTALLATION INSTRUCTIONS: TRAINER AXLE

### for CERVELO BIKE WITH R.A.T.

#### Tools Required:

- Torque wrench
- 17 mm open-end wrench
- 5 mm hex key for torque wrench
- Grease

#### Install your Robert Axle thru axle on your Cervelo R.A.T. bike:

1. If you are not comfortable working on your bike and installing this axle, then please consider taking it to your local bike shop.
2. With your bike in a stand, remove your stock rear thru axle.
3. Remove rear wheel.
4. Note the position of the derailleur and how it fits with the tab on the derailleur hanger. (Figure 1-A)
5. Remove derailleur from the derailleur hanger, usually done with a 5mm hex wrench. Leave the cable and all settings intact.
6. Using a 17 mm open end wrench, remove the hanger fixing nut from the outside of the frame on the derailleur. These are threaded with traditional right-handed threads so turn it “lefty-loosey.” (Figure 2)
7. Replace the R.A.T. derailleur hanger with the Robert Axle Project hanger. Lightly grease all threads, internal and external. Note the hanger has a hex shape that mates into the inside face of the frame. (Figure 1-B)
8. Install the stock hanger fixing nut on the Robert Axle Project hanger. Ensure hex fits into the frame while tightening the nut to the hanger to 8 N\*m.
9. Reinstall derailleur to derailleur hanger. Pay attention that derailleur is properly seated against B-screw stop (Figure 1-A)
10. Apply a light layer of grease to the threads, shaft and end of the Robert Axle.
11. Align rear wheel in the dropouts and install the axle. Start by hand tightening the axle to make sure the threads are engaging. Lightly secure the axle to about 6 N\*m, to ensure proper fit of wheel, derailleur and hanger.
12. While bike is still in the stand, spin the pedals and run the rear derailleur through all the gears. With a properly installed derailleur hanger, there is no need to adjust the derailleur.

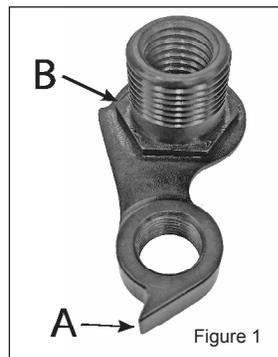


Figure 1

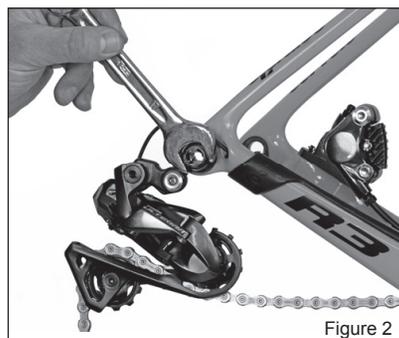


Figure 2

13. Insert a torque wrench with a 5 mm hex key into Robert Axle end and tighten axle to 12 Nm. **Do NOT over tighten.**
14. Thread on the remaining trainer Axle End cap. The Axle End cap should tighten against the frame (Figure 3) 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 N\*m.**
15. Attach your bike to your resistance trainer following the manufacturer’s directions
16. 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.



Figure 3

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

#### **⚠ 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.
- 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.