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› New V5 Universal Ebike Torque Arm - Instruction Manual

Grin Technologies TorqArm_V5

New V5 Universal Ebike Torque Arm - Instruction Manual

Model: TorqArm_V5 | Brand: Grin Technologies

PRODUCT OVERVIEW

The Grin Technologies V5 Universal Ebike Torque Arm is designed to secure hub motors to bicycle frames, preventing axle spinout. It is compatible with both front and rear mounted motors and works on either the left or right side as needed. This torque arm is specifically designed for frames or forks that have threaded M5 eyelets available for anchoring.



Figure 1: Assembled Grin Technologies V5 Universal Ebike Torque Arm.

KEY FEATURES

- Works for front and rear mounted motors, both on left and right side as needed.
- Made from 3mm stainless steel, the arm is strong and is firmly held in place by the arm to a threaded M5 eyelet on the frame/fork.
- Flexible splined insert concept that allows 50 angles of orientation so you can easily position the arm parallel to a frame/fork component.
- Splined-inserts are included for 12, 14 and 16mm axles.
- Splined inserts made from hardened 17-4 for up to double the spinout strength compared to most regular stainless steels.
- Use this Torque Arm when threaded eyelets are available on the frame to anchor the arm on. If eyelets are not available, we recommend our TorqArm V6.
- All torque arm parts proudly made in Canada.

WHAT'S INCLUDED



Figure 2: Components included in the V5 Torque Arm kit, including M5 hardware, hardened metal axle inserts, torque arm, torque plate, and C-washer.

The V5 Universal Ebike Torque Arm kit includes all necessary components for installation:

- M5 Hardware (various lengths: 12mm, 16mm, 20mm bolts, nuts, and washers)
- Hardened Metal Axle Inserts (for 12mm, 14mm, and 16mm axles)
- Torque Arm
- Torque Plate

- C-Washer

INSTALLATION GUIDE

Follow these steps for proper installation of your V5 Universal Ebike Torque Arm. Ensure you have a mallet or hammer, a wrench (size depends on your axle nut), an 8mm wrench, and a 4mm Allen key.

Important Considerations



Figure 3: Illustration of potential failures (axle spinout, steel spread, aluminum breaks) when not using a properly engineered torque arm.

For single-side installations, avoid installing torque arms on hollow axles as they are weaker. Always use a Grin tested and engineered torque arm to prevent axle spinout and frame damage.

Video Installation Guide



Video 1: Official installation guide for the Grin Technologies V5 Torque Arm, demonstrating component assembly and mounting on an ebike axle. (Duration: 2:54)

Step-by-Step Installation

1. Determine Orientation:

Start by placing the 'C-Washer' onto the axle to clear any lawyer lips on the motor. Then, place the appropriate axle insert (e.g., M12) onto the axle. Loosely mount the torque arm to the eyelet using one of its two end holes. Dry fit the torque plate and arm to determine the appropriate angle for alignment. The design is versatile, offering multiple mounting options. Find the configuration that best aligns the holes for the M5 hardware. You can also flip the linkage arm to change hole alignment. By rotating the insert 180 degrees (A vs B), you can offset the angle of orientation by 7 degrees for fine-tuning.

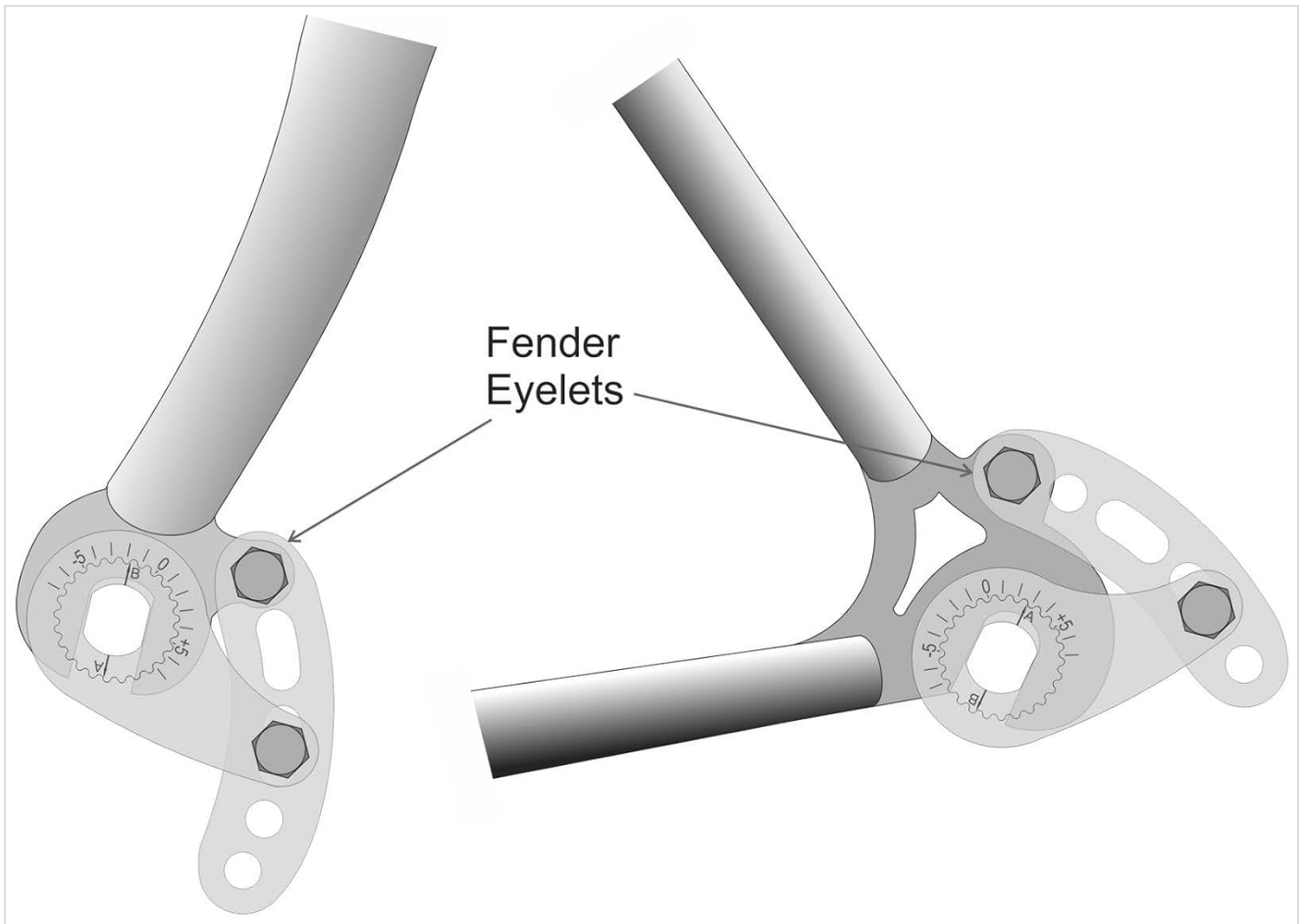


Figure 4: Proper alignment of the torque arm with the frame's fender eyelets.

2. Set Insert into Arm:

Once you have confirmed the installation orientation, remove the arm from the motor. Pound the chosen insert into the torque plate using a mallet or hammer on a hard surface. A vice can also be used to press the insert firmly into place. The snug fit ensures these parts stay together in the correct orientation.

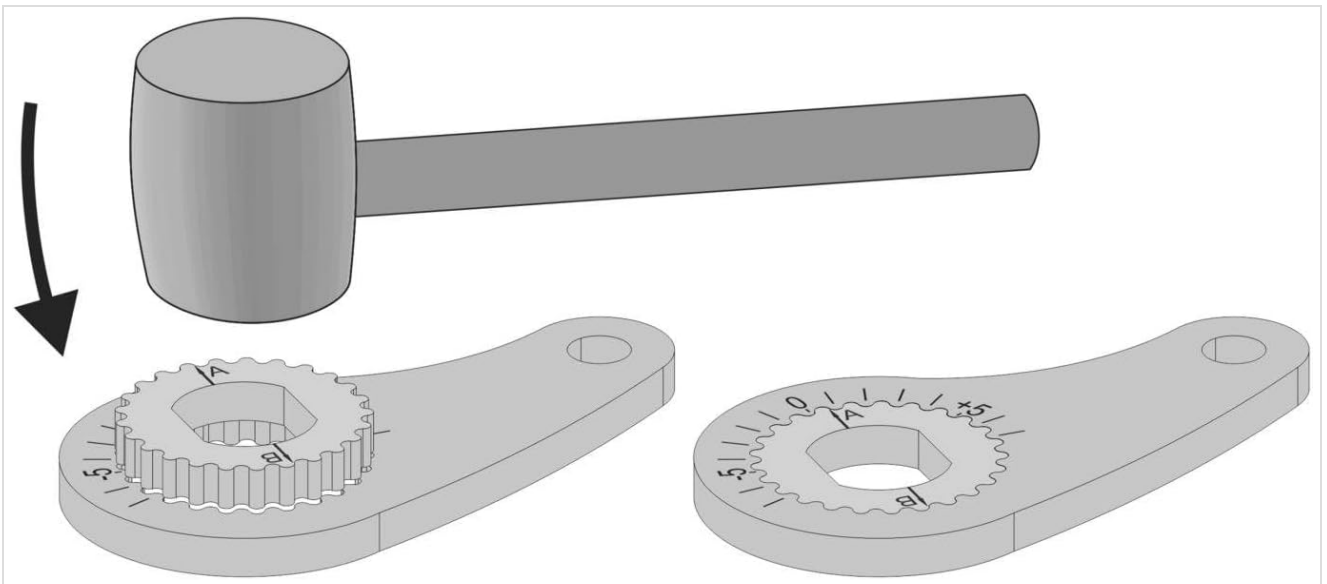


Figure 5: Securing the splined insert into the torque arm plate.

3. Final Installation:

Reinstall the assembled torque arm onto the motor axle, ensuring the 'C-Washer' is in place to clear lawyer lips. Install your hardware and axle nut. Tighten the axle nut to 60Nm of torque. The M5 hardware (bolts connecting the arm to the eyelet) should be tightened to 6Nm. Once tightened, your motor should be secure from axle spinout, providing a safe and sturdy ride.



Figure 6: Fully installed V5 Torque Arm on an ebike.

SPECIFICATIONS

Attribute	Value
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Attribute	Value
Item Package Dimensions L x W x H	8.19 x 5.43 x 0.35 inches
Package Weight	0.09 Kilograms
Brand Name	Grin Technologies
Warranty Description	1 year Manufacturer
Model Name	TorqArm_V5
Color	Silver
Material	Stainless Steel
Suggested Users	unisex-adult
Manufacturer	Grin Technologies Ltd
Included Components	Nuts, Bolts and Washers
Size	Small
Date First Available	May 2, 2017

WARRANTY AND SUPPORT

The Grin Technologies V5 Universal Ebike Torque Arm comes with a**1-year Manufacturer Warranty**. For any support inquiries or warranty claims, please contact Grin Technologies Ltd. directly. Their contact information can typically be found on their official website or through the retailer where the product was purchased.

This product is sold by Grin Technologies Ltd. and fulfilled by Amazon.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question