TSM-A5 Installation Guide

Rev 1

Thanks for purchasing this motor from Grin Technologies!

1. Parts Included

- TSM-A5 Hub Motor
- TSM-A5 Torque Arm
- Quick Release Skewer for 135mm Hubs
- Frame Clamp

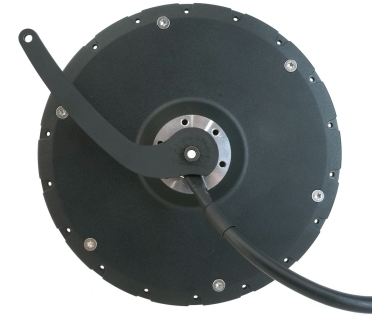
2. Tools Needed

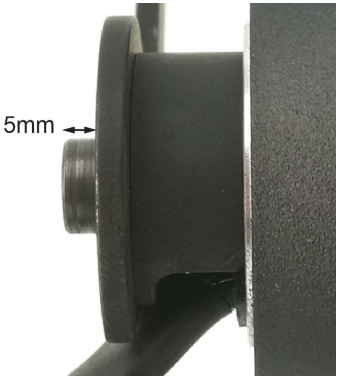
- 8mm Nut Driver or Adjustable Wrench
- 4mm Hex Key
- Flathead Screwdriver
- Heat Gun (Optional)

3. Installation

Install the cassette on the motor, and disc rotor if the bike has disc brakes – follow installation practices for the cassette and brake rotor as per manufacturer instructions.

Fit the torque arm on the cable side of the motor. Ensure the torque arm is seated correctly and that the teeth are engaged. There is only one position where it is properly seated. There will be 5mm of exposed axle when the torque arm is seated correctly.





It is easiest to install the motor with the bike upside down. The following pictures demonstrate the installation in this way.

Measure and cut the provided heat shrink to the circumference of the bike's seat stay where the frame clamp will sit. Cover and heat shrink the hose clamps to prevent scratching the frame and for a more discrete look.

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Mount the frame clamp to the underside of the seat stay with the hose clamps – use a Flathead screwdriver or 8mm nut driver to tighten and loosely secure the hose clamps.

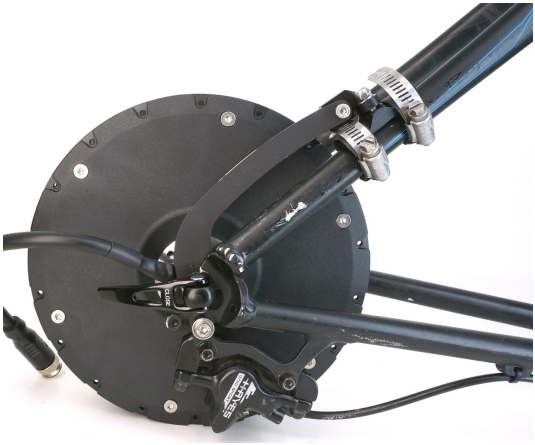
Place the motor into the rear dropouts and line up the hole in the torque arm with the slot in the frame clamp.

Insert and loosely secure the motor with the quick release skewer. The lever of the quick release skewer should be on the torque arm side. Verify that the torque arm is fully seated in the motor.

Secure the torque arm to the frame clamp with the M5 nut and bolt.

Tighten the hose clamps to secure the frame clamp.

Tighten the quick release skewer. Orient the lever such that it is parallel to the seat stay, or points directly to the back of the bike, and ensure the lever does not contact any parts of the bike. The lever should be firm – as a general strategy, lightly tighten the nut with the lever parallel with the axle first, then close the lever all the way.



4. Additional Notes

- Do not use tools to tighten the quick release lever, hand tighten the quick release lever only – using tools can damage the lever.
- Ensure the quick release and torque arm are properly installed and tightened before use. Improper installation can cause wire harness damage and broken parts, which will not be covered under warranty.
- Route the electrical wire such that it does not contact the rotating disc rotor, as this can damage the cable.

Enjoy your new kit!