

# Hill Topper 24 Volt/250 Watt Installation and Operating Instructions

Watch our installation video at [Electric-Bike-Kit.com/install](http://Electric-Bike-Kit.com/install)

## BATTERY CHARGING

FOR LONG-TERM BATTERY STORAGE, CHARGE BATTERY TO FULL MONTHLY

### **CHARGING Your Hill Topper Battery:**

- 1) Plug charger into wall socket. Charger light should turn Green.
- 2) Turn OFF the battery power switch (no red plastic showing on switch).
- 3) Plug charger into small matching socket on battery (not big chrome socket).
- 4) When charge is complete, disconnect battery from charger.

Charger light indicator colors for 24v Hill Topper Batteries:

- Red: Charging
- Green: Fully charged/Standby

*\*Note: Charger may become warm to the touch during charging. This is typical. It is recommended that you keep it out of direct contact with combustible materials.*

**Helpful tip:** For longest battery life, top off the battery to 100% after each ride. Once fully charged, unplug from the charger. Do not leave on charger for more than 12 hours.

## TROUBLESHOOTING (More Info at the [Electric-Bike-Kit.com](http://Electric-Bike-Kit.com) Info Page)

- **My forks contact the motor:** Insert no more than one additional thin washer between the motor and tab washer (see the axle hardware diagram on the next page). Ensure that the tab washers still lock into place on the axle.
- **My fork “dropout notches” are too small for the motor axle:** File the dropout notch on your forks by 0.5mm.
- **Motor is making a “Clunk... clunk... clunk” sound, turns very slowly, or is not turning on:** Repeat battery charging instructions. If problem persists, please contact our Technical Support team (see below) and we will repair or replace any defective components under warranty at no additional cost.

## REPAIRS

For service or repairs, contact our support department:

- Call **(206) 682-7520** from 9am to 3pm PST, Monday-Friday, or
- Email [support@ukko.io](mailto:support@ukko.io)

**Ship components to:**

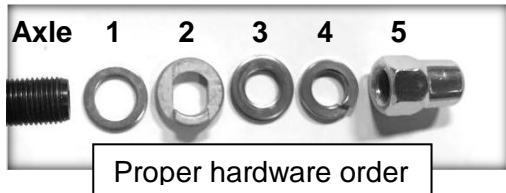
UKKO Concepts  
920 S. Holgate ST. #106  
Seattle, WA 98134

**Attention:** You must include your order number and a description of the problem

More information at the [www.Electric-Bike-Kit.com](http://www.Electric-Bike-Kit.com) Info Page

## HUB MOTOR INSTALLATION

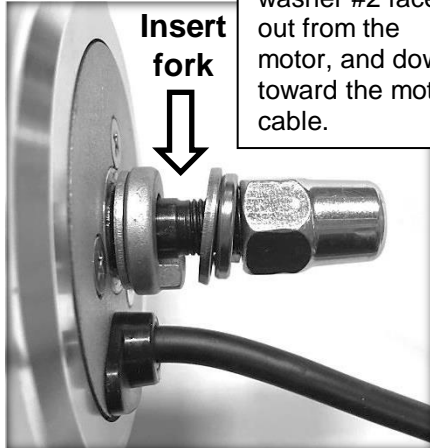
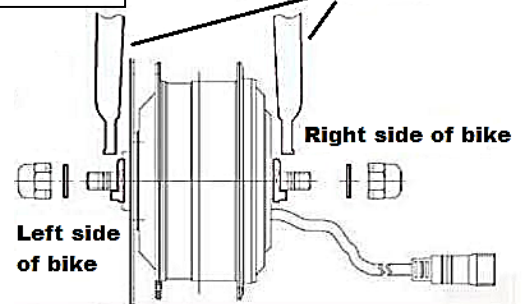
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Hardware Names:

1. Thin Washer
2. Tab Washer
3. Thick Washer
4. Split Washer
5. Axle Nut

Image orientation: looking forward from behind forks



The "tab" on washer #2 faces out from the motor, and down toward the motor cable.

-Steel bicycle fork is recommended with hub motor.

-Remove your front wheel, set Hill Topper wheel in its place.

-From riding position, the motor cable should emerge from the RIGHT side of the motor (the same side as your chain).

-Ensure that axle hardware is in the correct order.

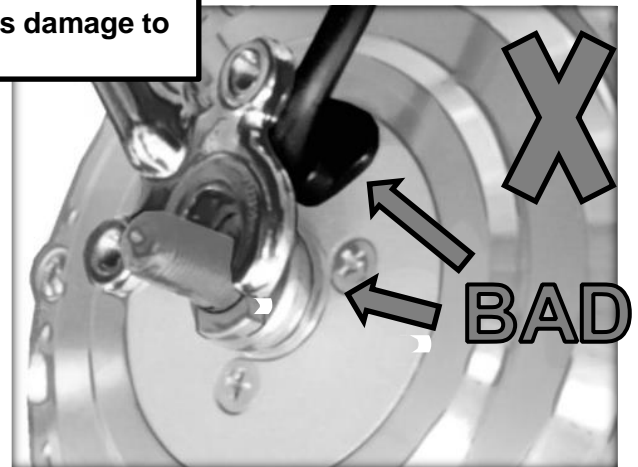
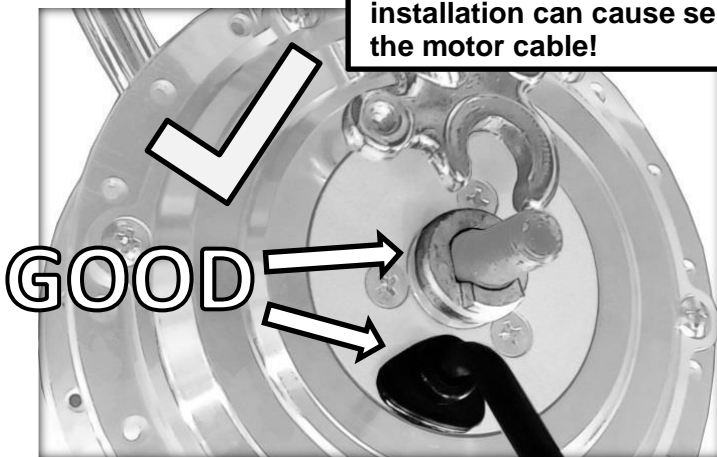
-Make sure that the wheel can turn without rubbing or grinding on the forks or brakes.

-Use a wrench to tighten bolts to ~28 foot-pounds.

-Additional washers may be used if necessary to accommodate your specific fork shape and size.

-Make sure your tire is inflated and your brakes are adjusted, and you're ready to go!

**IMPORTANT: Incorrect tab washer installation can cause serious damage to the motor cable!**



**Correct:** Cable opposite dropout *and* near the tab

**Incorrect:** Cable "crushed" under fork

## BATTERY MOUNTING SUGGESTIONS

