

## Veloteq E-Bike Rear Wheel Hub Motor Removal Instructions.

Following instructions detail the removal of the rear wheel on a Veloteq E-bike that has an in-hub motor system. These instructions should apply to the, Commuter, Challenger Commander, Dart, and Sorrento hub motor versions. They have not been reviewed on any other model nor are they directed at bikes with the GT motor.

The following tools will be required:

Screwdrivers:	1 Phillips
Wrenches:	21 mm for rear wheel bolts. 8, 10 mm
Other:	wire cutters or scissors
Wire Ties:	

In order to remove the rear wheel the power must be disconnected from the controller. The connections are found under the seat storage compartment and are most easily accessed by removing the seat and storage compartment first. When replacing the power connections after completion of the project it is recommended to clean up the wire routing and wire ties so that in future only the motor power cable needs to be removed.

1. Remove Seat bucket.
  - a. This is generally bolted to the bike frame by four bolts beneath the seat.
  - b. There may also be several self tapping screws holding the side fascia to the seat bucket. These should be removed if necessary.
  - c. Once all of the screws and bolts have been removed take the seat and storage compartment out.
2. Remove Rear Frame Plastic Fascia
  - a. Remove the two rear frame plastic fascia.
3. Disengage Electric Motor Power Cable.
  - a. Following the wiring (labeled as item A in Figure I in the Appendix) from the hub motor up to the connection bundle from the controller. This is located under the storage compartment. Cut all wire ties securing the wire as you go.
  - b. Disconnect the four main power connections and the six pin plastic connector for the hub motor.

4. Remove Rear Wheel Hardware.

- a. First remove the brake cable completely from the rear wheel assembly (B in Figure I).
  - i. Be sure to put the spring, pin and brake adjustment nut on to the cable so that they do not get lost.
- b. Remove the nut securing the brake drum assembly (C in Figure I)
- c. Remove the nut and sleeve from both the left and rear fork, (D in Figures I and II)
- d. Remove the two (21 mm) axle nuts, (E in Figures I and II)
- e. Remove the two sleeves (8 mm) securing the axle to the frame, (F in Figures I and II).

5. Remove Rear Wheel.

- a. Once all of the hardware has been removed the rear wheel can now be pushed forward.
- b. Remove the chain from the rear cogs and wrap it around the rear fork.
- c. This will allow the rear wheel to be slipped out. Note the flattened sides of the axle as they will have to be correctly orientated to replace the wheel.

6. Replacing the Wheel and Electronics.

- a. Once the wheel has been repaired follow the above instructions in reverse order in order to reassemble the bike.

APPENDIX A

Figure I

Rear Wheel View Left.

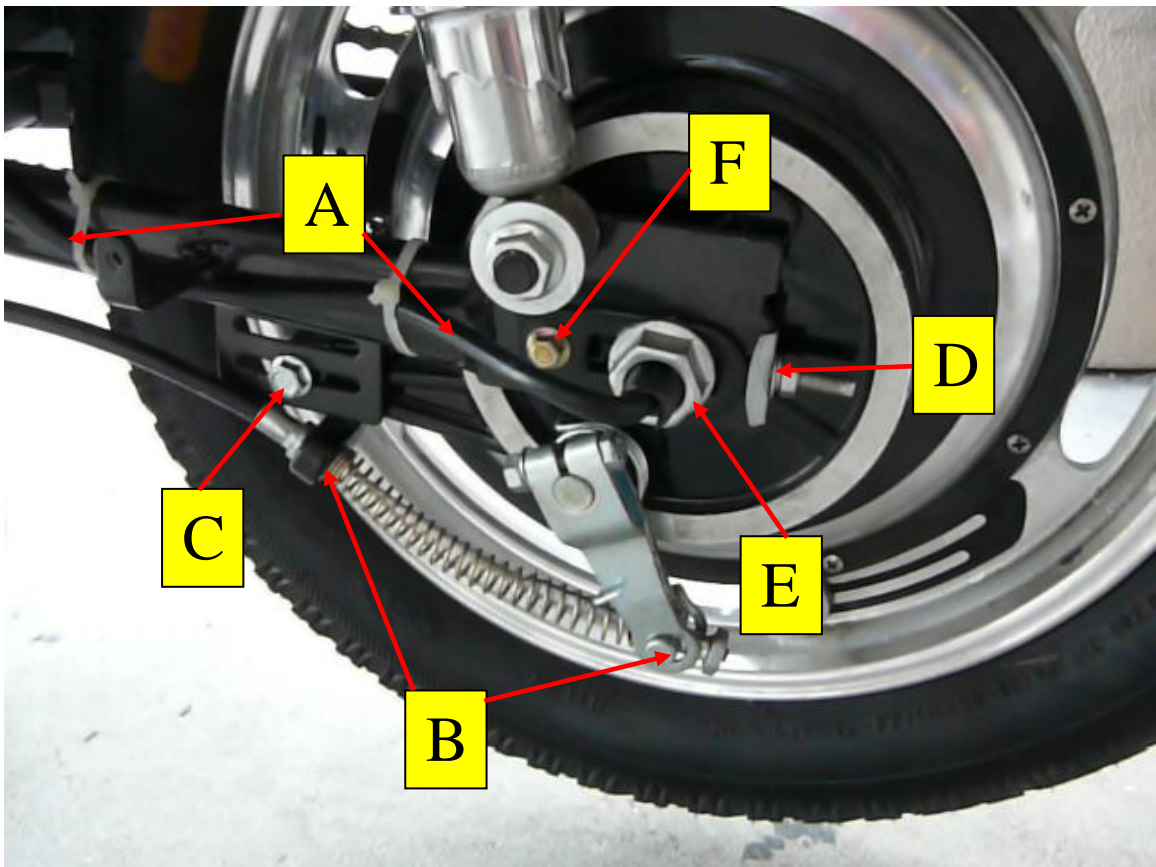


Figure II  
Rear Wheel View Right

