User Manual

Electric Bike Kit

Step by Step Installation Guide

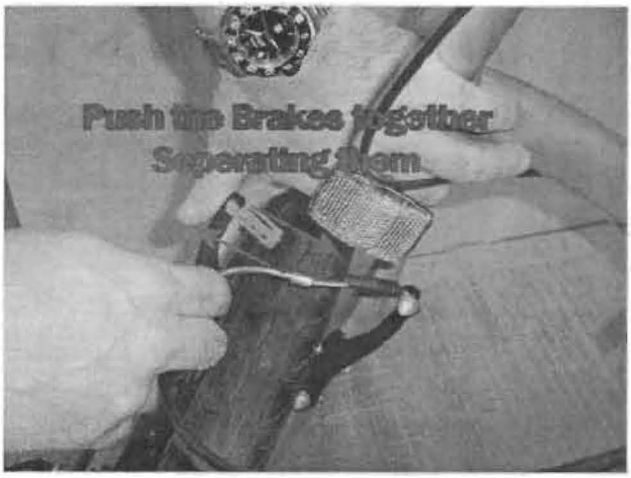
Step 1 Parts Identification.

The box contains following parts:
1) 1xMotorized wheel
2) 1xBattery
3) 1xCharger
4) 1xThumb/Twist Throttle
5) 2xBrake lever/Brake sensor
6) 1xController
7) 1xSpeed sensor & Sensor disc plate
8) 1xController box
9) Washes and nuts and zip ties
Optional: LED/LCD display

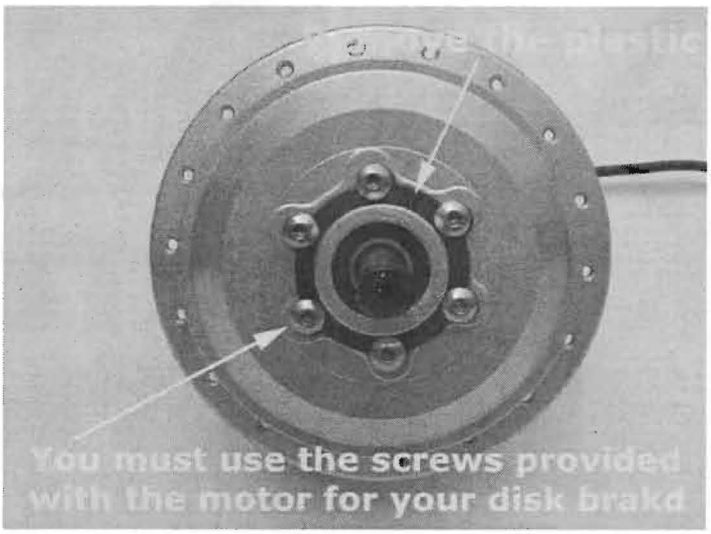
Note: Some part would be different according To the order.

Step 2 Brake Installation

A: For V Brake:Disconnect the brakes.

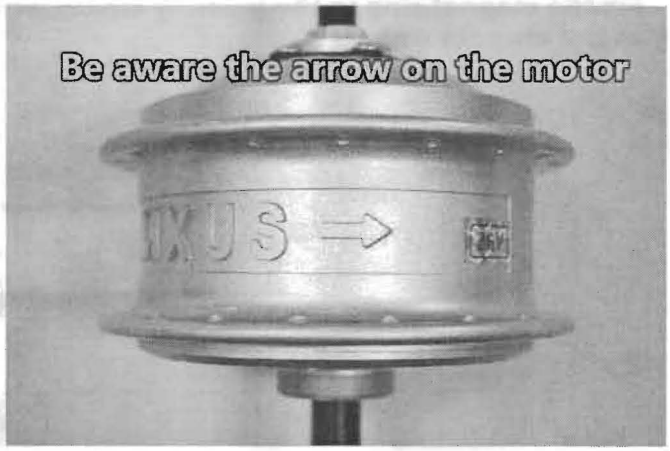


B: For Disc Brake:Take out the plastic and install your original disc.



Step 3: Mount the Front Motorized Wheel

Turn your bike upside down and remove your existing wheel. Remove the tire and tube as well as tire cushion. Pay attention to the direction of tire and wheel when installing them back. Depending on your forks they may need to be hand spread a bit due to settling on the original axle.



Install the new hub motor wheel and tighten the nuts snugly. Do not over tighten as it may push the forks through the shoulder(small notch) of the axle. Then cover the axle caps for both sides.

The washes and nuts should be in following orders. However, you may need to add/reduce/change the washes according to your bike condition.

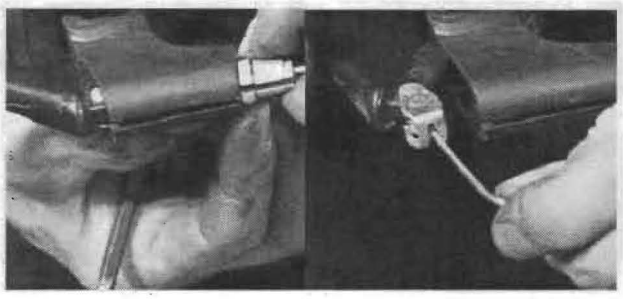
Note: You cannot install ANY hub motor on alloy forks as they are CAST aluminium and WILL break at the dropouts. Simply check the dropouts with a magnet, if the magnet sticks you are good to go. Otherwise you will need to install a set of steel/Chrome molly forks or use a rear kit. Rear kits arefine on aluminium frames as they are not CAST aluminium.

Step 4 Components Installation on Handlebar

Flip the bike back upright.

Remove the grips

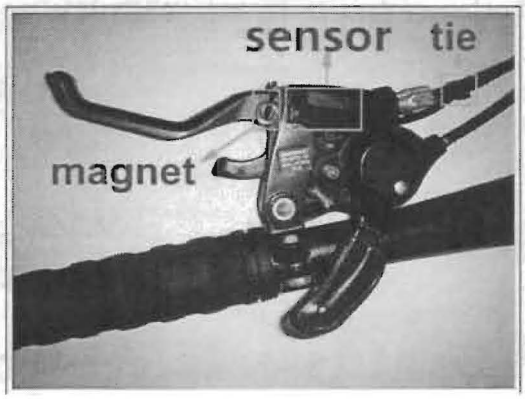
A: Brake lever
Remove the brakes

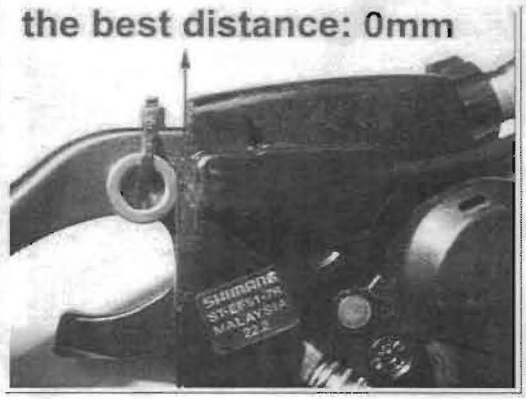


Note: You may need to release the cantilever brakes on front and rear. On the brake lever there is a barrel and a lock nut, both with a notch in them. Align the notch with the notch on the brake lever, pull the cable out and remove the small round ball attached to the end of the brake cable.

Install the power cut-off brake. Tighten it down just enough to keep it from moving freely but enough so that you can still move it.

B: Brake sensor
Fix the magnet ring to the lever by zip tie. Stick the sensor at the bottom of swifter, just next to the magnet ring.



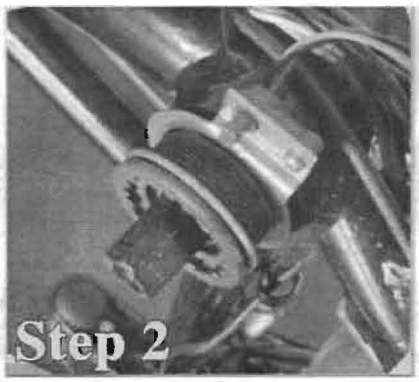


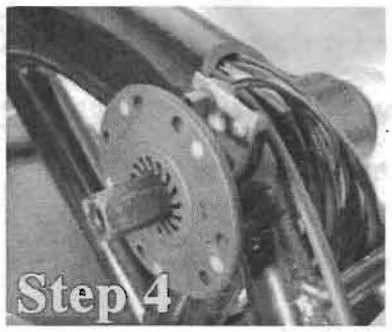
Install the throttle.

Reinstall your grips.
Now.. Sit on your bike and hand adjust your brakes, shifter and throttle so that they are in the most comfortable position for you. Then tighten them down snugly.

Step 5 Install the PAS(Pedal Assistance System) Optional

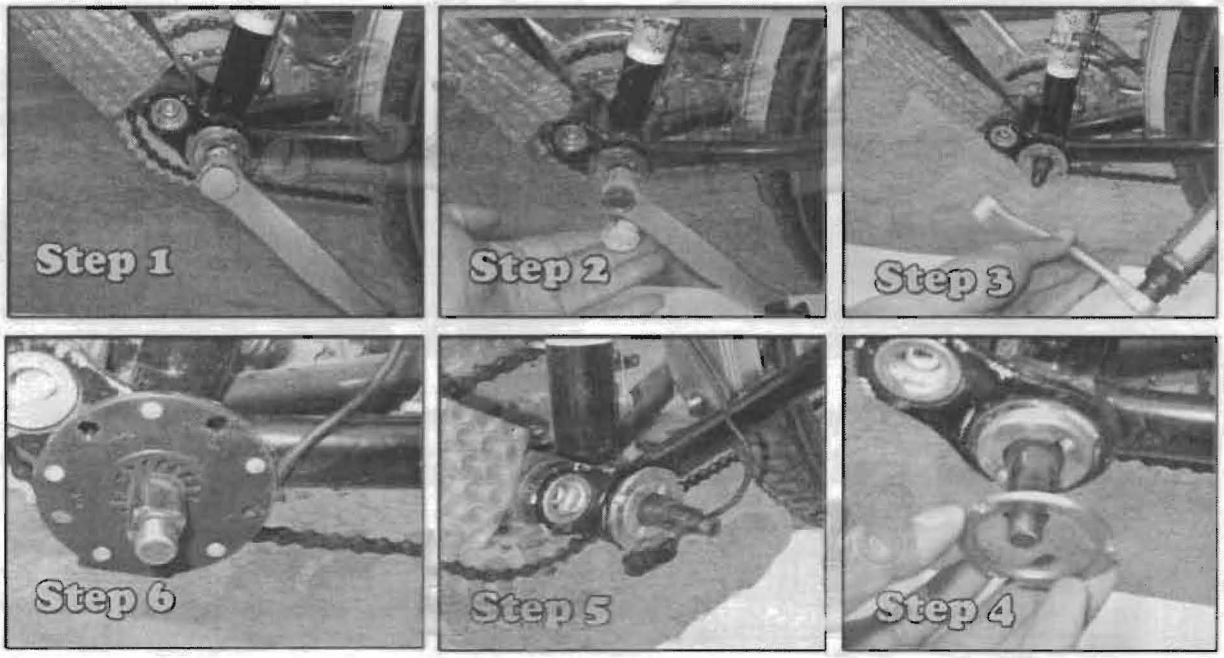
Option A: Install it on the left side





Option B: Install it on the right side

Note: If your bike does not have the fixing rim on Step 4, you have to grue the speed sensor on the frame.



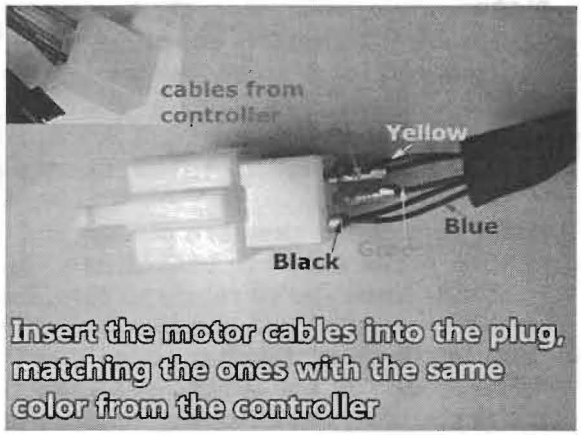
Step 6 - Install the bottle battery

Fix the battery holder with the screws on the frame

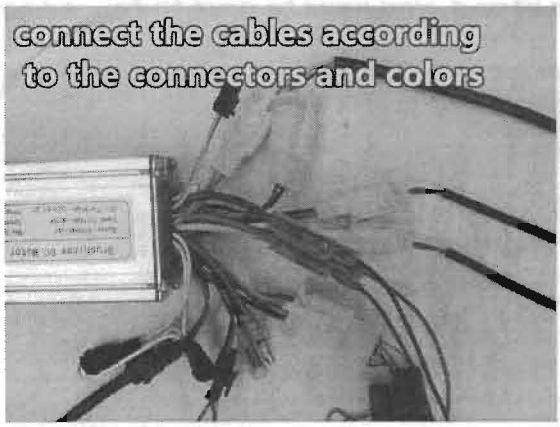
Put the battery onto the holder.

Step 7 - Run cables and connect to the controller

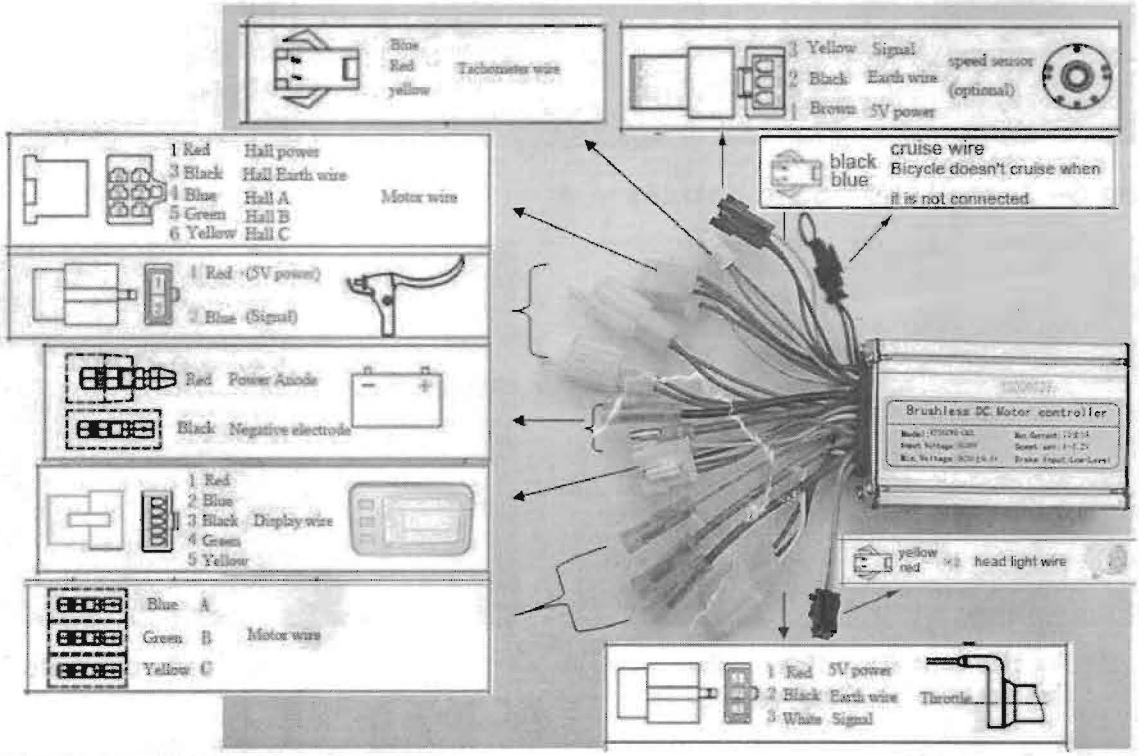
Loosely zip tie them, keep them clean and as hidden as possible. Make sure that when running cables you have a full turning radius without putting tension on the cables. If you do not allow enough room for full turning radius you will pull the wires from the inside of the motor and will damage the parts. Once you have all your cables ran cleanly to the back of the bike, go ahead and zip them tight.



Connect the cables to the controller. Put the controller and the rest wires to the controller box. Fix the controller box to the frame with zip tie.



The Function of Each Cable



Note:
Cruise wire: When it is connected, the bike will keep the same speed if you are running at the same speed for 8-10 seconds even you stop the throttle. When it is not connected, it will be not functional.

Step 8 - Make Final Adjustments & Enjoy

Make sure the brakes are placed and tightened to your comfort level.
Finally, make sure the brakes are adjusted, gears are tuned and everything is ready to go. That's it! Now you're ready to ride. Be careful and take it slow until you get the feel. Ride for a few miles and then come back to check everything over. Give the bolts a good tightening one more time. You should check all the components often to make sure all connections are secure, especially near the hub and at the motor.