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E-BIKE



READY TO DIY YOUR FANCY EBIKE? LET'S GO

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Getting started:

First, Open the box ,Check as following:

1) A motorized BLDC motor wheel or



2) A mini geared motor wheel



3) A controller set



4) A pair of power brake



5) Twist throttle or Thumb Throttle



6) PAS system



Optional items:

1) Lithium battery



2) controller's bag
(Example: water-bottle li-ion battery)



3) LED meter



4) Multifunction LCD meter



Different types of lithium batteries



battery without house



waterbottle



lift



rack

Basic Tools:

List:

- P) At least 6 Zip Ties (For holding wires firmly to your bicycle frame)
- Q) 3 Allen Wrench with diameters 2.5mm, 3.0mm, 5.0mm
- R) Adjustable wrench
- S) Philip Screwdriver



Locating the parts on the bike



Preparing the Back Wheel (Includes Gear and Disc Brake)

1) Installing the gear on the back wheel



2) Installing the Disc Brake

Note: Please check your disc brake diameter. In most cases, 140mm disc brake are used for the rear wheel while 160mm are used for the front wheel.

Mounting the Tire



First confirm the direction of the thread pattern of your tires.

Turn the wheel around and insert the tube's valve into the opening of the wheel's rim.



Place the rest of the tube between the rim and the tire and pull the tire over the rim. Then pump it up, check for leaks and you're done assembling the wheel.

Important Note: Please choose a tube with a longer valve as OUR rims are double walled. The rims are double walled to be able to with stand the powerful torque from the motor.

1) Remove your front wheel

2) Insert the motorized wheel, insuring, that the cables running to the motor are on the right handside in normal driving direction. Otherwise the wheel will run backwards! Please orient yourself using the following pictures

Place the hub of your motor between the dropouts of your bike frame. Firmly seat the axle into the dropouts to gain a good fit. **Tighten the nuts very firmly.** This is a crucial step in building a good electric bike, as the motor provides a very large torque, which may otherwise loosen your nuts.





Slide the hand brakes into both sides of the handlebar. Find a comfortable position.

Then tighten using a 5.0mm Allen Wrench

Installing the thumb throttle/twist throttle

A-Thumb throttle



Slide the thumb throttle into either side of the handlebar that you feel comfortable with.

Place your hand on the bar and find the position where your thumb feels most comfortable pressing down on the throttle.

B- Twist throttle



Slide the Twist throttle into the right side of the handlebar and get a feel of twisting the throttle.

When you feel comfortable with the position, use the 3.0mm Allen Wrench and secure it into place

Slide the display on either side of the steering bar so you feel comfortable.

You can check the following photo for your reference



Installing Vehicle Speed Sensor

When the LCD instrument matches the high-speed motor without signal for speed output (with built-in clutch), it requires an external vehicle speed sensor. The installation method of the external vehicle speed sensor refers to the pictures below.



Mount the sensor to the fork using the rubber bands

Mount the magnet to the spokes using a Philips screwdriver

Installing Pedal Assistance System (PAS)

The Pedal Assistance System, also known as pedal system, is a compulsory component of an electric vehicle in European countries. The system controls the amount of electricity supplied to the motor proportional to the angular velocity of the pedal. (i.e. the faster you pedal, the faster the motor turns.)

Remove the pedal crank arm.



Place the sensor ring to the bottom bracket and secure it in position using washers or superglue.

Place the outer magnetic ring next to the sensor ring. Make sure they do not have any contact by spacing them apart using washers.



Detail of sensor ring and magnetic ring.

Screw back the pedal into place, connect the PAS wire with the controller and you are ready to ride legally in Europe.

Normal kit with normal controller, LED kit with LED controller , LCD kit with LCD controller . Please check and match carefully before making connection ,OR,it might damage the controller .

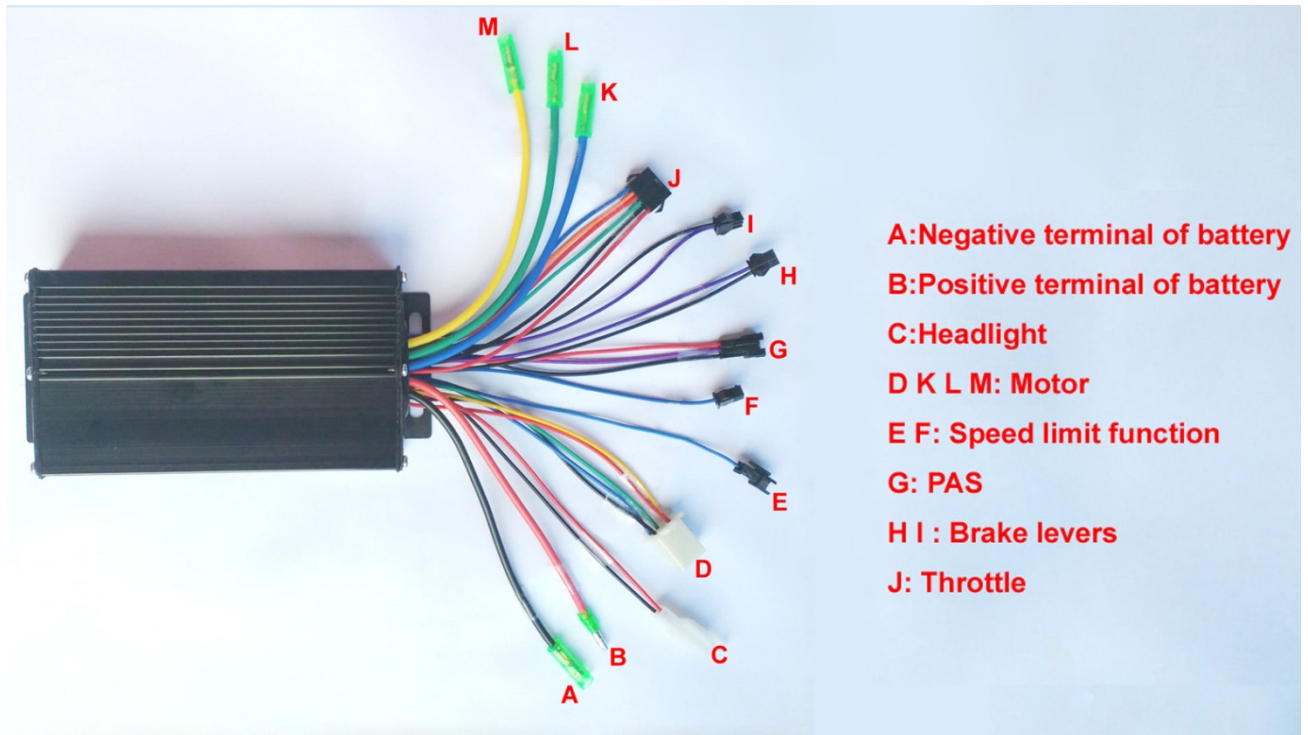
A: Normal controller:

2 controllers for normal , SILVER & BLACK . Check and Match before connecting , P.S. Black one is the most often use in normal kit .

OPTION 1 –SILVER TYPE (with full fuctions)



OPTION 2 –BLACK EASY TYPE

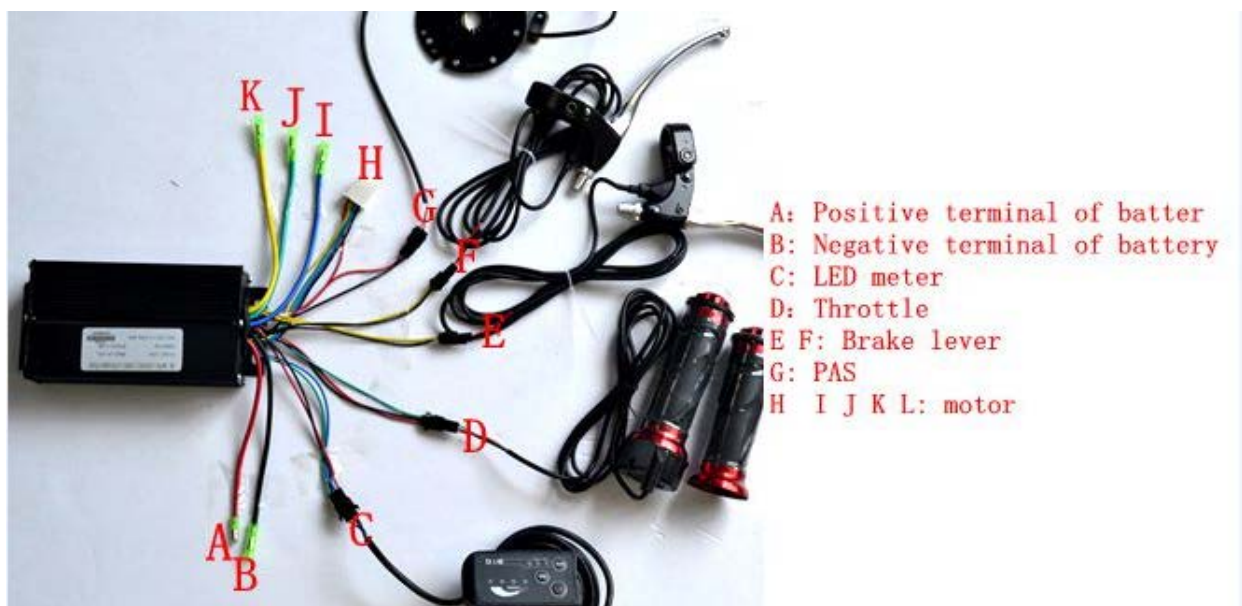


LCD meter: it has two parts, one is the LCD display, the other is LCD speed sensor.



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C: LED controller:





Remove screws for bottle holder from frame

Use the screws to fix the battery holder to the frame



Put the battery into the case. And connect the battery to the controller



The controller bag kit includes: one bag, a mounting plate, a clip plate, two screws and nuts, one Allen key.



Slip the mounting plate under the saddle support

Fasten the clip plate to the mounting plate using both screws and nuts



Clip on the controller bag

Put the controller in the bag and connect the cables

It is advisable to use cable ties to secure the cables to your bicycle frame. Perhaps you find a way to tie them, so that they are almost invisible. Remember however to check, if they impede the movement of the handlebars. Also secure the brake cables running to your front and back brakes accordingly.



Note: As a suggestion, after you tied your cables, rotate your handlebars to see if the movement is smooth and undisturbed.

Finishing the fight

Check-List: (Turn off the battery)

- 1) Wheel is secured in place.
- 2) Back wheel is vertically aligned with front wheel.
- 3) Wheel has no loose parts.
- 4) All components on the handlebar have been secured tightly.
- 5) You are comfortable with the throttle, brakes, etc.
- 6) The handlebar is able to rotate freely.
- 7) The mechanical brakes work properly.
- 8) The battery cannot slide off without unlocking it.
- 9) Check that the battery poles are connected correctly.