

E-Bike Conversion Kits Installation Manual Rear Wheel

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Part One: Getting started

Open the carton, take out all the parts.
Check the parts according to the list.

Parts List:

	<p>Hub Motor wheel with Tire and Tube, with 7-speed freewheel</p>		<p>36V/48V 40A 18 MOSFET Controller</p>
	<p>Color LCD Control Panel</p>		<p>Half-bar Twist Throttle, hand grip</p>
	<p>Brake lever (left and right)</p>		<p>Integrated Pedal Assistant Sensor</p>
	<p>Controller Bag</p>		<p>Power Supply Cable</p>
	<p>Motor Extension Cable</p>		

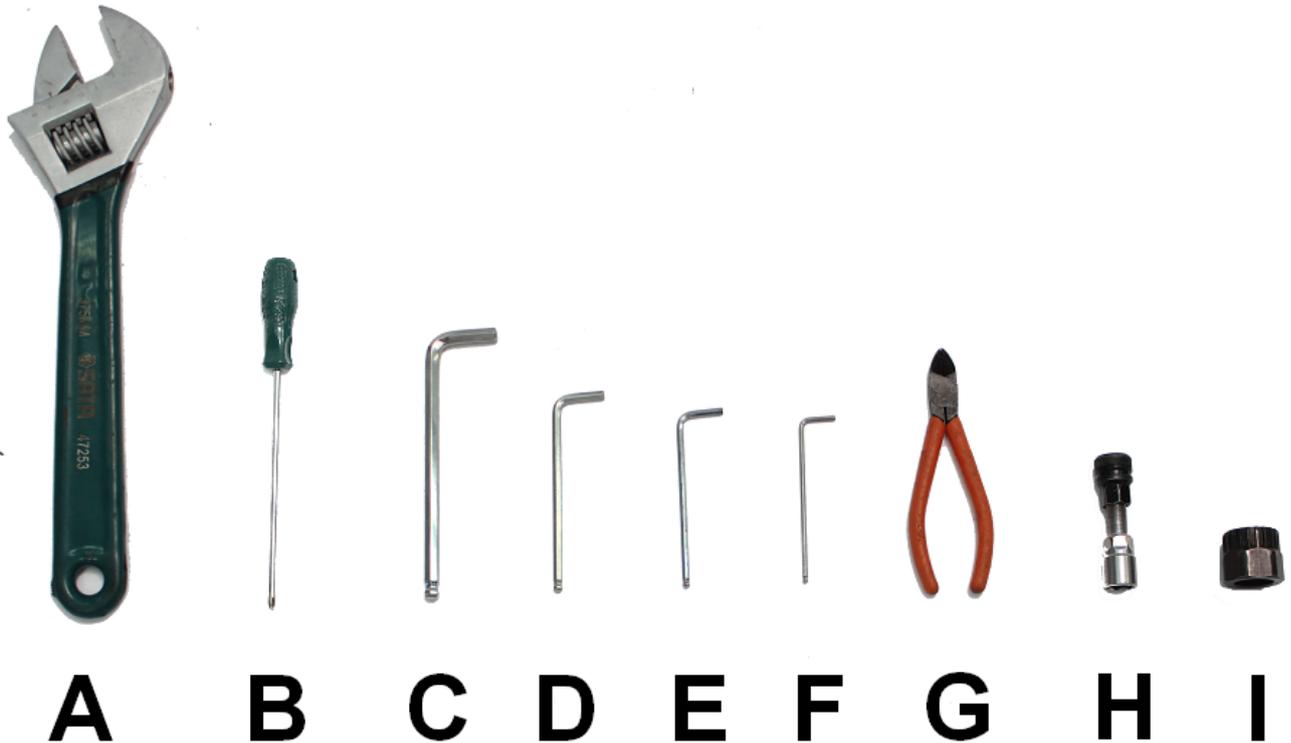
Note: Please check for any damage on the items. Take out the items, put them on the floor and start to build your own E-Bike through following pages.

Part Two: Tools needed

Which Tools do you need for installation?

List:

- A). Adjustable Wrench
- B). Phillips Screwdriver
- C,D,E,F). 4 pcs Socket Head Wrench with diameters 3.0mm, 4.0mm, 5.0mm, 8.0mm
- G). Diagonal Cutting Nipper
- H). Puller
- I). Socket Wrench



Part Three: Removing and installation of the wheel

1) Turn over your bike, remove the original rear wheel.

2) Install the motorized wheel, fasten nuts on both axles.

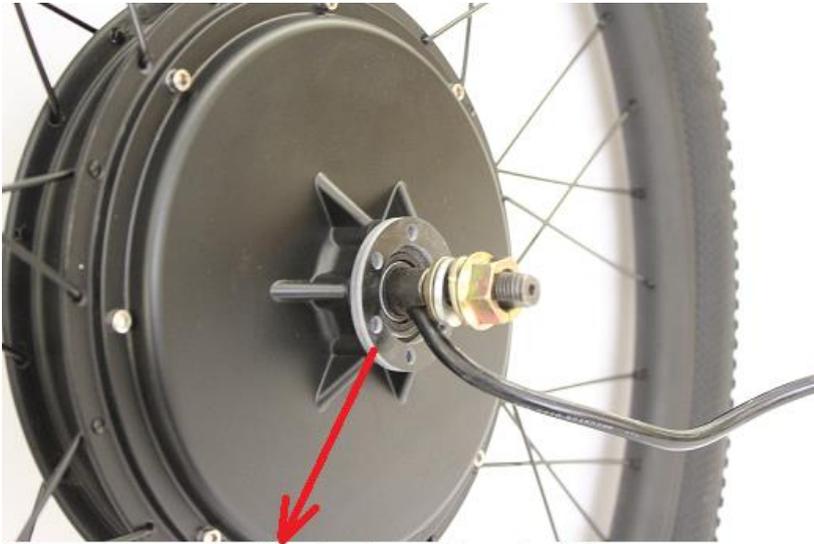
Install your own disc brake rotor on motor wheel (6-hole)

Put the motorized wheel in rear fork, please ensure motor cable shall come out from left side, motor axle must be put inside the socket of rear fork.

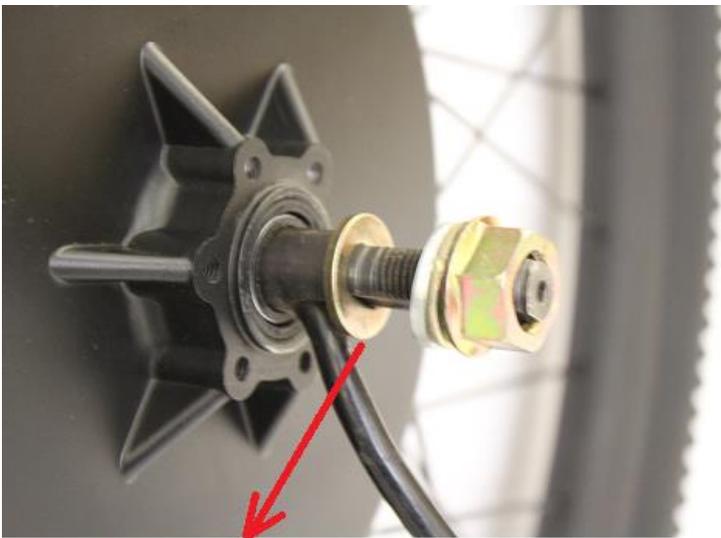
Please try the disc brake rotor position, If the distance between rotor and rear fork is less than 15mm, then please put a washer between motor axle and fork to adjust the distance.

Fasten all nuts. If you use hydraulic disc brake, the caliper maybe too thick will touch motor cover, then you need to put washer between rotor and motor 6-hole.

Please also put a washer at freewheel side, between freewheel and fork.



If your hydraulic disc brake caliper is thick, you may need to put a washer here to add distance between brake rotor and motor



If the distance between rotor and rear fork is less than 15mm, then please put a washer between motor axle and fork to adjust the distance.



Please also put a washer at freewheel side, between freewheel and fork, so that fork will not press cassette bearing

Part Four: LCD Control Panel Installation

LCD Control Panel UKC3:

Installation Guide:

Please install LCD at left side and fasten screw



Part Five: Brake Levers Installation

Brake Levers has 2 parts: Left Brake Lever, Right Brake Lever

Installation Guide:

Remove original brake levers and install this new one

Put brake levers on both sides of the handlebar. Try and find a comfortable position then fix them with 5.0mm Socket Head Wrench.



Part Six: Twist Throttle Installation

Twist Throttle has 2 parts: Half-bar Twist Throttle, Right Side Grip

Installation Guide:

Install left side hand grip, install right side throttle and fasten with 4.0mm Socket Head Wrench.



Part Seven: PAS Installation

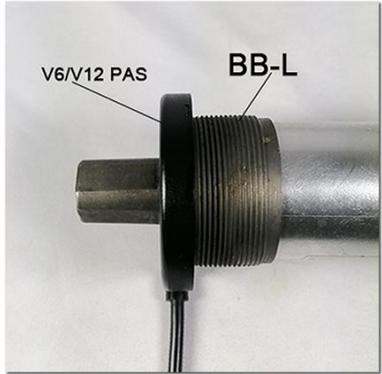
This is integrated PAS has only one part: PAS Sensor and Magnetic Ring integrated

PAS (Pedal Assistance Sensor), also known as pedelec system, is a necessary component of an electric bike in European countries. PAS controls the power supplied to the motor through the angular velocity pedal. (i.e. the faster the pedal turns, the faster the motor runs.)

Remove your bike left side crank arm with Puller, put the PAS into the Bottom Bracket axle with cable toward back, put crank arm back and fasten screw.

Installation Guide:

Remove left side crank arm
Install this integrated PAS at left side
Install left side crank arm



Part Nine: Controller Installation

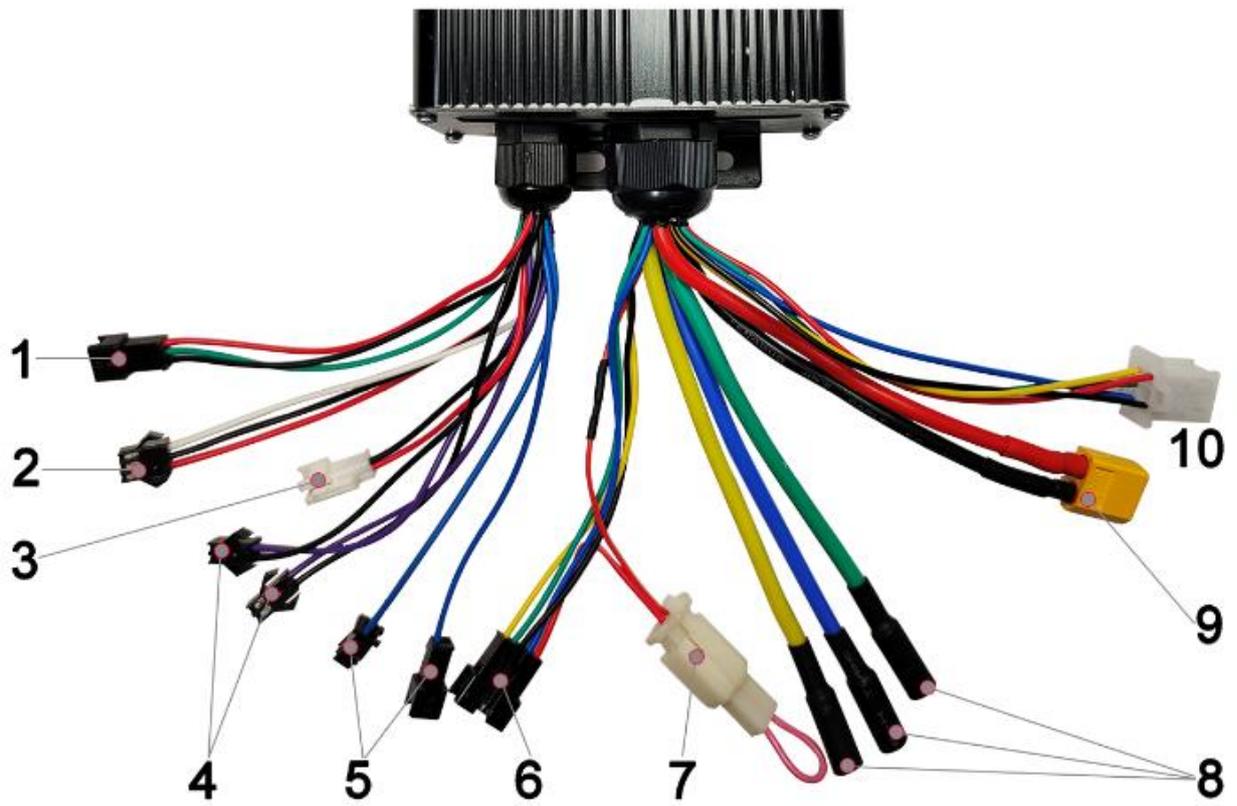
Please find suitable position to put controller on your ebike. You can also put controller inside our controller bag and hang it under ebike top tube.



Controller Connection Diagram

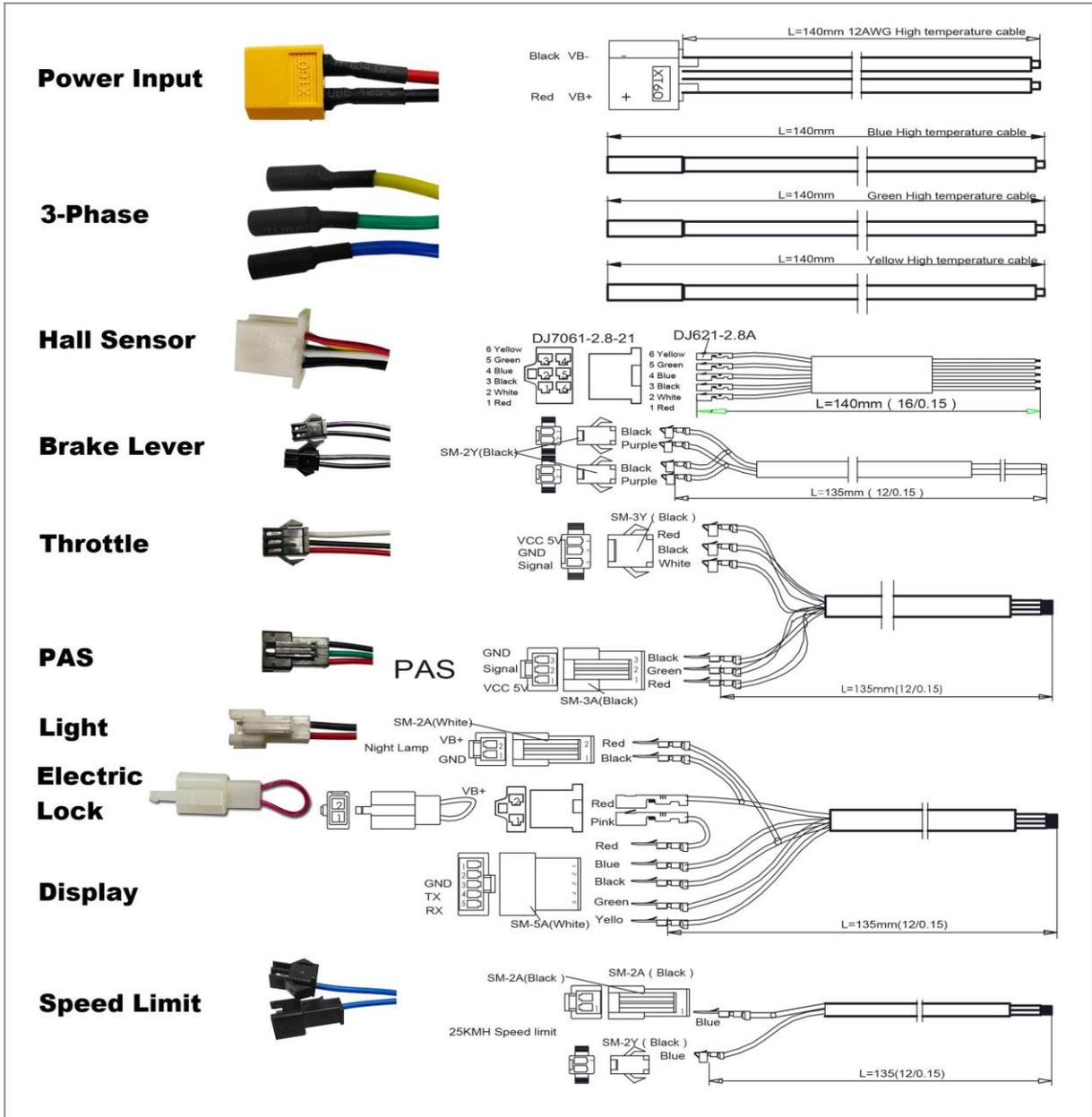
Please connect all electronic parts with controller:

- (1). Connect Controller with Motor via extension cable (Hall Sensor Plug, 3-phase Connectors), please make sure same color should connect with same color cable
- (2). Connect Controller with Display
- (3). Connect Controller with Throttle
- (4). Connect Controller with both Brake Levers
- (5). Connect Controller with PAS
- (6). Connect Controller with your battery
- (7). Turn on your battery
- (8). Turn on Display
- (9). Take a test ride (Throttle and PAS) with lower speed level



- | | | | |
|----------|-------------------------|-----------|---------------------------|
| 1 | PAS | 6 | Display |
| 2 | Thottle | 7 | Electronic lock |
| 3 | Light-Battery's Voltage | 8 | Motor's Phase Cable 5.5mm |
| 4 | Brake Lever *2 | 9 | XT60 Male 12AWG |
| 5 | 25KM/H Limited | 10 | Motor's Hall sensor |

Controller Diagram



Congratulations!
You have completed your own DIY eBike!!!

