



# USER MANUAL

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# CONTENTS



## Part Introduction

- Step #01** : Getting Started
- Step #02** : Preparing the Bike
- Step #03** : Installing the Tire
- Step #04** : Installing the New Wheel
- Step #05** : Installing the Controller
- Step #06** : Pedal Assist Sensor (Optional)
- Step #07** : Installing the Battery
- Step #08** : Installing the Brake Levers and Display
- Step #09** : Cable Connections
- Step #10** : Check, Test & Enjoy the Ride!



## ABOUT US

**EbikeLing**, based in Chicago, Illinois, provides the best and easy to install e-bike conversion kits, e-bikes, accessories, and parts at affordable prices. We strive to offer a wide selection of **conversion kits, e-bikes, accessories, and parts** that meets your specific needs. At ebikeling, you will not only find e-bikes and related items but you will also find bicycle loving people who are always ready to answer your questions about electric bikes.

## PARTS INTRODUCTION

Open the carton, take out all the parts. Check every item you received in the box.

Each conversion kit includes:



Conversion Kit



Controller



Pedal Assist Sensor



Brake Lever Set



Torque Arm Set



Hub Cable



Controller Cable



Twist Throttle



Thumb Throttle



Organizer



LCD Display



LED Display



(Rear wheel kits only)  
Freewheel



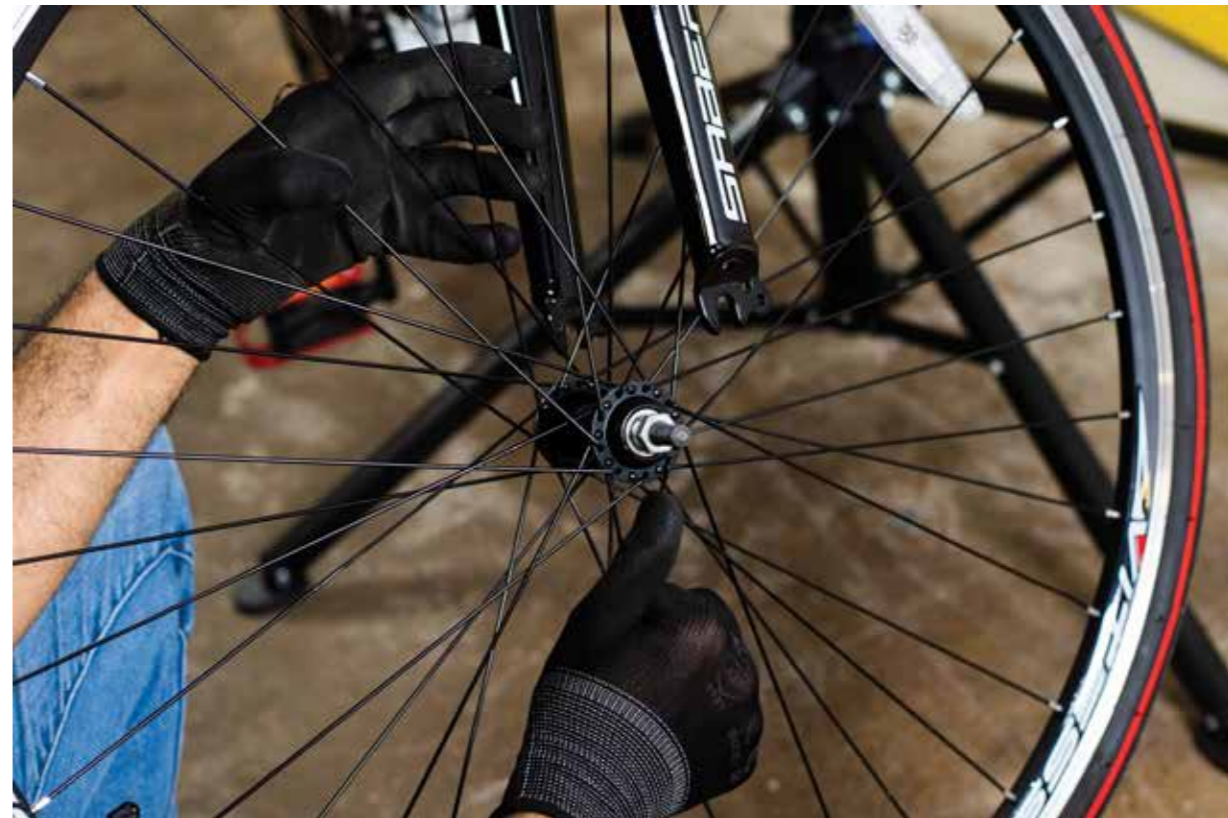
## STEP #01: Getting Started

- Prepare a work area by covering the floor with cardboard. Give yourself enough space to remove your bike's current wheel and chain.
- You may want to wear latex gloves to keep your hands clean.
- Prepare your tools. You will need pliers, different sizes of wrenches, allen wrenches, phillips and flat screw drivers. You may need more tools as every bike is different with various ways to mount certain parts.
- Lastly, make sure you have an air pump as you will need to switch your current bike tire on to the new wheel with an electric motor hub.

## STEP #02: Preparing the Bike

- At this point, we have all the necessary parts and tools needed to convert your bike.
- Please start by removing out your current bike wheel. It will take slightly longer to remove the rear wheel since you also need to move the chain. No worries this is still an easy process.
- If you decide to use a Pedal Assist System, you will need to remove your pedal arm (crank).

**Note:** Different cranks have different installation processes. You need to install the PAS sensor at a proper distance.



### STEP #03: Installing the Tire to the New Wheel

- The tire from the old wheel needs to be installed on the new wheel with an electric motor hub.
- First, deflate the tire then remove the tire and inner tube from the old wheel.
- Be careful not to damage the valve in the process, if so you may have to replace it with a new inner tube.
- Install the inner tube on the new wheel, then the tire, and inflate.



#### STEP #04: Mounting the New Wheel to Your Bike

- Insert your new electric motor hub wheel to the fork.
- Make sure the rotation direction is correct (brake disk holes are always on the left side).
- Install axle and torque washers, tighten the nuts securely.



### STEP #05: Installing the Controller

- Determine a suitable place for the controller where the motor and the harness cable can easily reach.
  - Cable lengths should not be an issue. However, it's preferred to measure them and decide where they will be routed before using cable straps.
- Note:** The controllers come with SY60 male type battery connector (also compatible with XT60 connectors).
- You can purchase the batteries from our website [ebikeling.com](http://ebikeling.com) or you may use your own battery.
  - Please make sure you have an SY60 or XT60 connector on your battery.



## STEP #06: Pedal Assist System (optional)

- The pedal assist system uses a magnetic sensor and a magnetic ring to detect how fast the rider is pedaling. This information is processed by the controller and depending on the chosen assist level, the motor will apply additional power to the wheel.
- Remove the left pedal crank arm from the hub and locate the lock ring holding the pedal hub inside the bicycle frame.
- Remove the lock ring and install the sensor. Tighten the sensor and lock ring back on the hub.  
**Note:** Pay attention to the arrows. The magnetic ring is pushed against the hub and the PAS wire must go to the right!
- Install the pedal back and tighten with a ratchet to specs.





## STEP #07: Installing the Battery

- This step is only to determine where the battery will be mounted for cabling purposes. The battery does not have to be installed at this point. Only the battery mount should be installed so you know where the cables will run from.
  - A down tube type (bottle) battery will most likely be installed at the down tube bottle holder mount.
  - A rack battery will need a rack installed on the rear of your bike to hold the battery.
- Custom battery packs with custom boxes or bags will need to be mounted to your specific needs.



*(Battery does not come with the conversion kit)*

## STEP #08: Installing the Throttle, Brake Levers, and Display

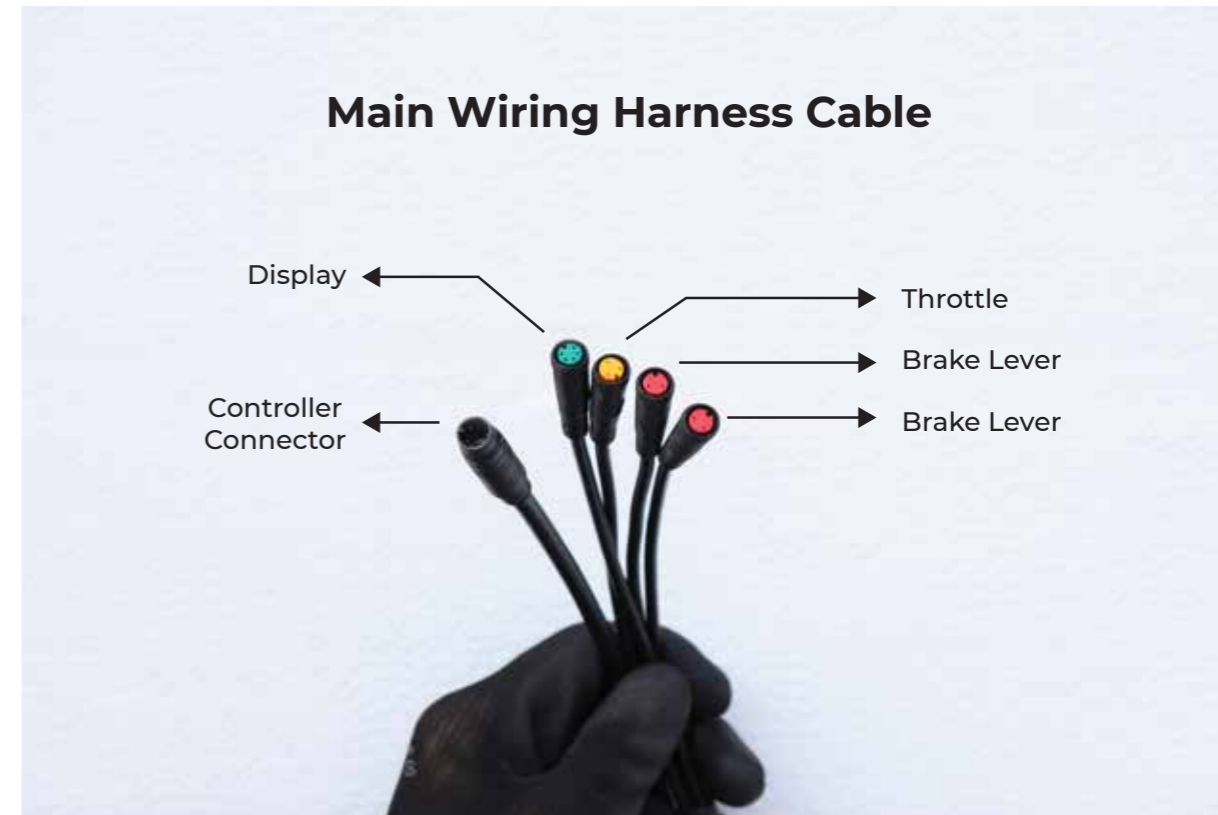
- Remove the original old brake levers off from the handlebar.  
**Note:** You may have to release the tension on the steel brake line from the brake mechanism in order to pull the line ends of the original brake levers.
- No need to remove gear shifters if there are any on your bike.
- First, install the display (LED or LCD) on the bar and route cables to the controller. Connect to the appropriate connector.
- Install the bike brake levers (one for each side) connect brake lines and route cables to the controller. Connect to the appropriate connector.
- Install the throttle (Twist or Thumb) on the bar and route cables to the controller. Connect to the appropriate connector.

INSTALL THE THROTTLE  
INSTALL THE BRAKE LEVERS  
INSTALL THE GRIP



### STEP #09: Connect the Cables

- Refer to the controller pictures in the User Manual.
- Make all the connections between the components and the controller.
- The following picture shows how to connect each part to the controller.



### STEP #08: Installing the Throttle, Brake Levers, and Display

- For your safety, the torque arm must be installed before riding the bike!
- The torque arm will take the extra torque from your wheel and transfer it to the frame of the bike providing you a safer ride.
- If the kit is 1200W or higher, we highly recommend installing one on each side of the wheel.
- Please see the link below for Torque Arm Installation:  
*[ebikeling.com/pages/torque-arm-installation](http://ebikeling.com/pages/torque-arm-installation)*



## ENJOY YOUR RIDE!

Please do not hesitate to contact us with any questions or issues you may come across.

We value your feedback! Let us know how we did by leaving a review on our Facebook, Google+, Instagram or Yelp pages.

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