



USER MANUAL

Electric bicycle



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## Please Note Before Use

1. Before the first time of driving, please read this user manual carefully about the cautions and safety specification. Or you can ask a director (coach) of driving experience for instruction.
2. The first charging shall be of 6-8 hrs. When the indicator of charger turns from red to green, it means the battery is in full charged.
3. When all preparation works are done, in order to ensure safety and prevent from injury, please wear the safety helmet and protective gear.

## Maintenance

1. If there are stains on the surface of the electric bicycle, wipe it with a soft cloth dipped in a small amount of water. If there are stubborn stains, use a toothbrush dipped in a small amount of toothpaste to scrub repeatedly, and then wipe it.
2. Do not use alcohol, kerosene, or other corrosive volatile solvent cleaning, otherwise it will damage the appearance and internal structure of the product.
3. Prohibit the use of pressure water gun spray rinse, and ensure that the bicycle is closed when cleaning, charging port rubber cap tightly, otherwise it may lead to serious consequences.
4. If you do not use the electric bicycle for a long time, please place the electric bicycle indoors in a dry and cool place, and try to avoid outdoor exposure to the sun. Otherwise, the appearance and tires of the electric bicycle will accelerate aging, and the life of the battery pack will be significantly reduced.
5. Do not use battery packs that are not original. Otherwise, risks may arise.
6. Do not open or pierce the shell of the bicycle. Avoid direct contact of metal objects with the battery contact points, to avoid battery damage or casualties.
7. When disposing of the battery string, follow the local laws and regulations. Do not dispose of the battery string at will and protect the natural environment.
8. If not used for a long time, please charge the battery pack for 3 hours every 3 months.

Read all precautions and instructions in this manual before using this equipment

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# ASSEMBLY CAUTION

Please carefully read the following information before installation

**Assembling requires at least two people**

**Do not tighten all screws before assembly is complete**



If you are missing any parts, or otherwise have any warranty issues, please contact us first.

## ***Shortcut: A Lot of People Doing That Way***

To enhance your installation process for both speed and convenience, consider removing all accessories from the box, carefully opening the packaging, and arranging everything neatly on the floor. This preparation can streamline your setup experience.

## **WARNING**



Choking hazard. Small parts-Please exercise caution if small children or pets are present.



Sharp objects may be involved. Use precaution and protection.

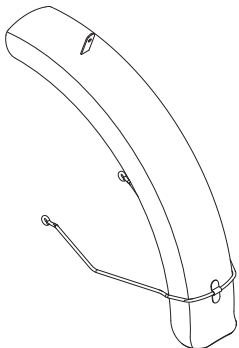
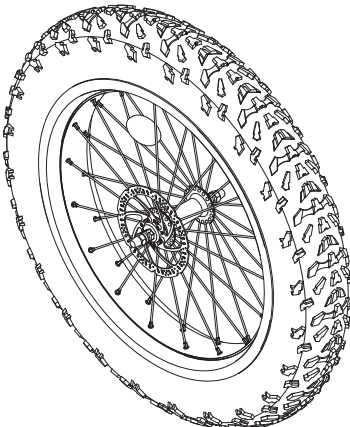

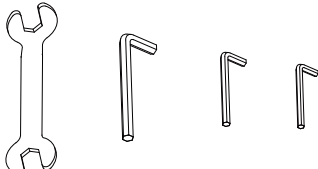
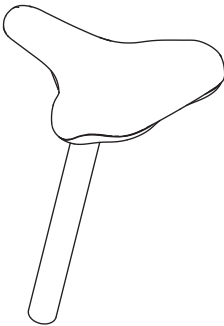
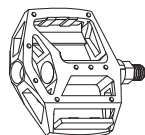
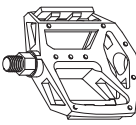
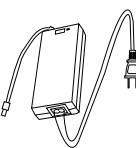



Heavy object. Use lifting aids and proper lifting techniques when moving

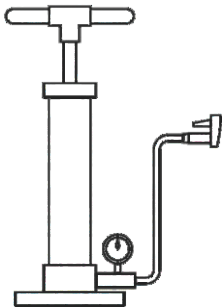
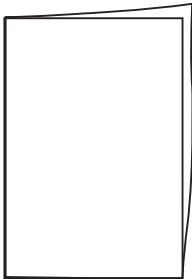



## Part List

The bike comes with various configurations, and the images may differ.  
Please refer to the configuration details at the time of purchase for accuracy.

A1 .Front Fender 1PC	A2 .Front Wheel 1PC	A3 .Re-installed Frame 1PC
		
A4. Tools	A5 .Seated Cushion 1PC	A6 .Pedal Left 1PC
		
A7 .Pedal Right 1PC	A8 .Charger 1PC	A9 .Rear rack 1PC
		

## Part List

A10 .Pump 1PC	A11 .Instructions 1PC	A12 .Key (Pay attention to save) 1PC
		

## Front Wheel Installation

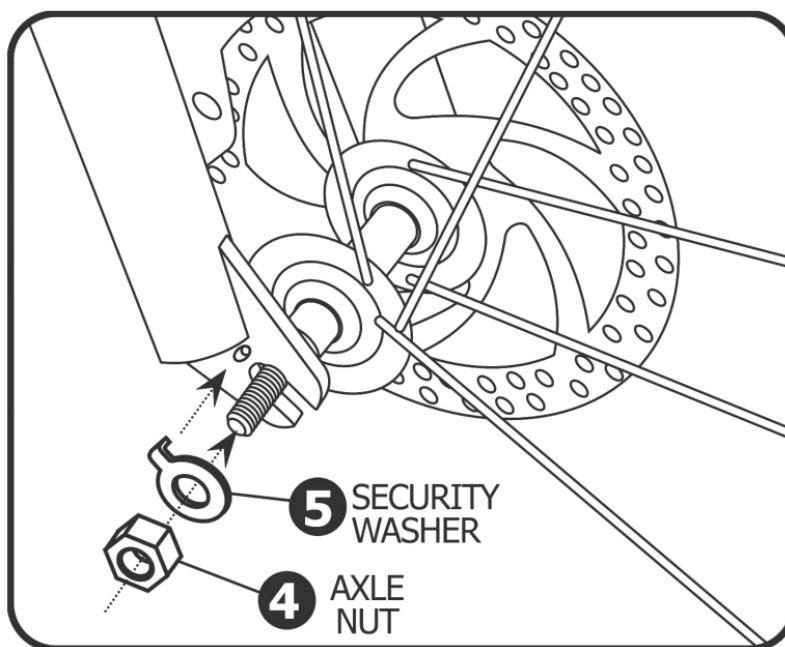
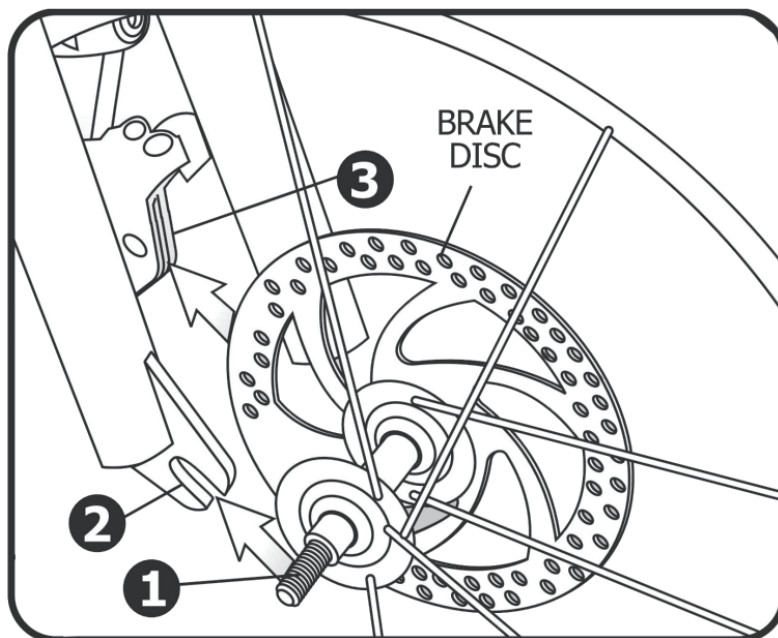
**Assemble the front wheel to the fork as shown:**

Insert wheel into position making sure the axle (1) is aligned with the fork dropout (2) and the brake disc is aligned with the slot in the brake caliper (3).

-Make sure the tab of each security washer (5) is in the hole of the fork.

-Using the two axle nuts (4) tighten the axle nuts and secure the front wheel.

**NOTE:** the recommended torque of 25-35 Nm.



## Headlight And Front Fender Installtion

- 1) Install the front fender first. Align the fender stay with fender stay mounting base on the left and right legs of the fork to enable the fender in the line with the wheel. Fix the fender stay.  
(A:the fixing screws are provided on the mounting base)
- 2) Put the headlight with its bracket in front of the fork gantry, put the lifting lug of the fender behind it. Link and secure the three pieces with the screw provided on the headlight (you might need to secure the opposite nut slightly so the screw doesn't turn).
- 3) Connect the headlight cable.

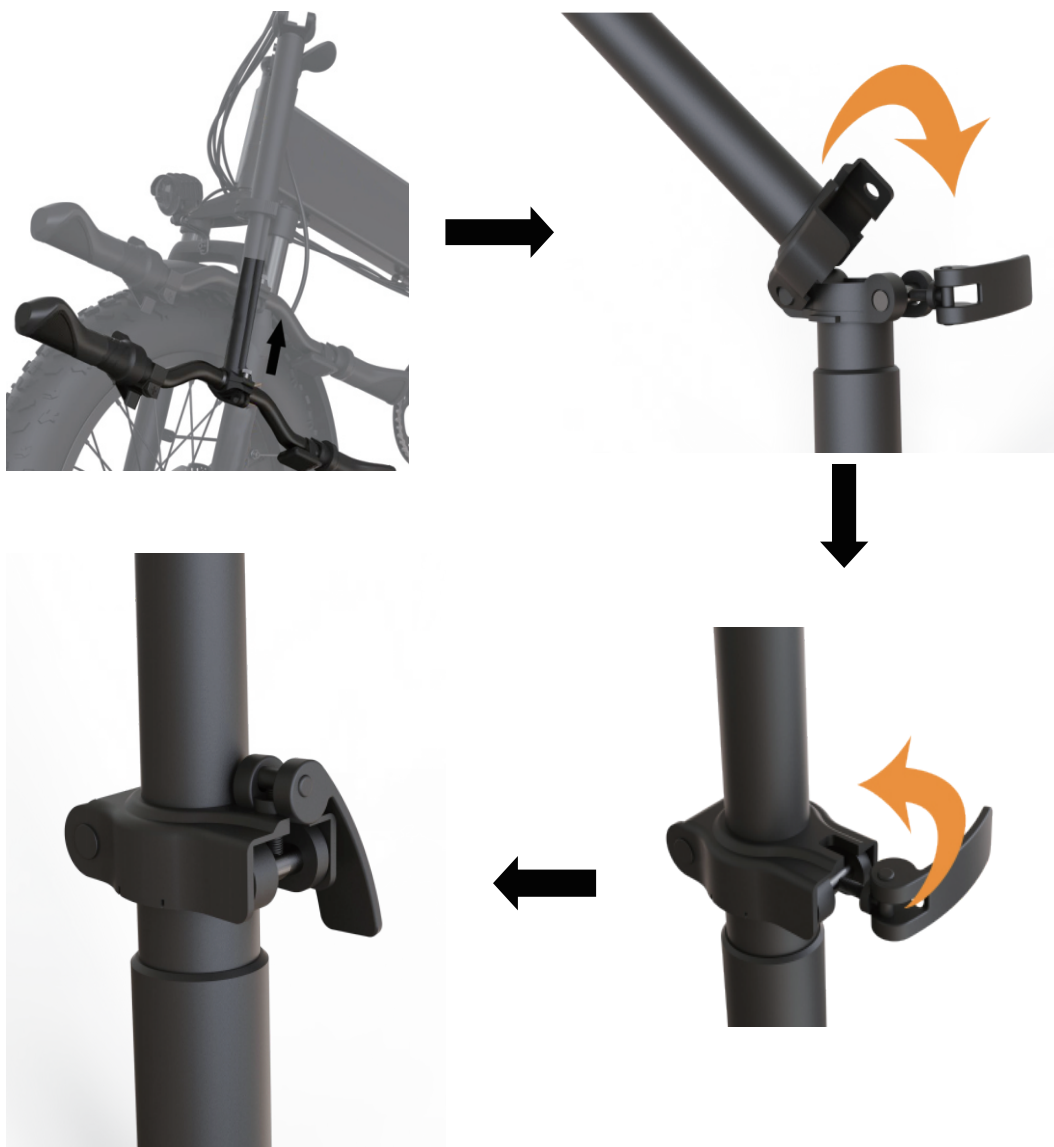


## Unfolding The Frame

Unfold the bike and match the front and rear bike frame. Push the folding lever inward and tighten the lever.

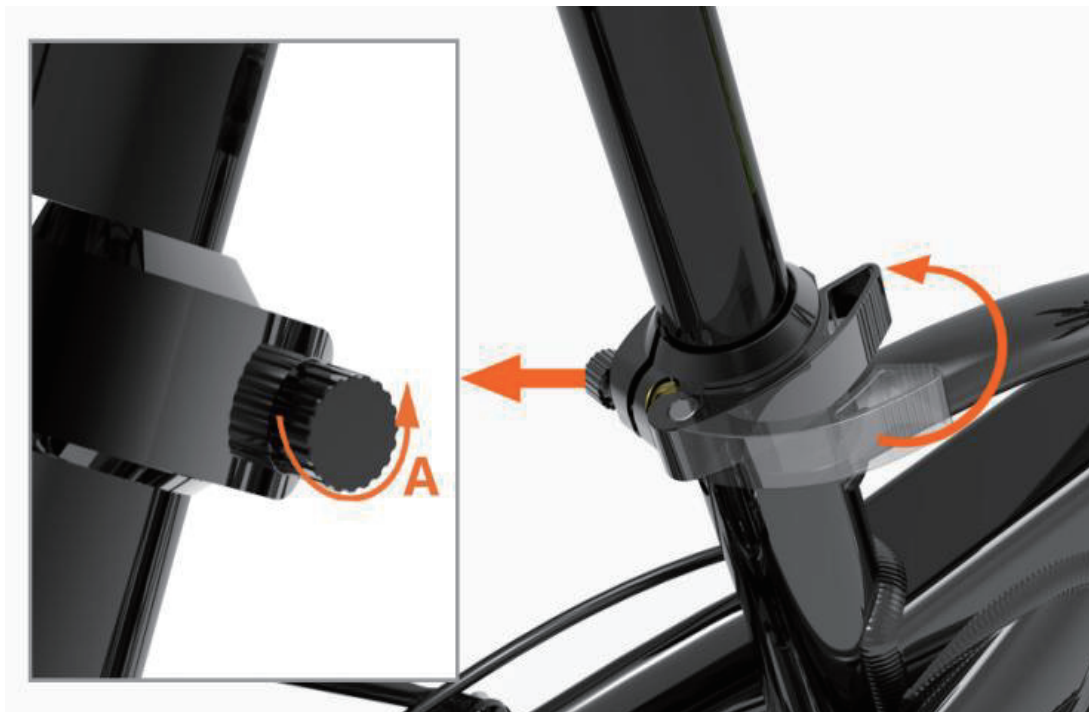
### Unfolding the handlebar

- 1) Insert handlebar into the stem tube and close the quicker release on the stem. If too loose, can adjust the screw nut to adjust the tightness.
- 2) Turn the handlebar upwards until a "click" sound is heard. Pull the quick release mechanism upwards and turn the folding lever down.



## Seat Installtion

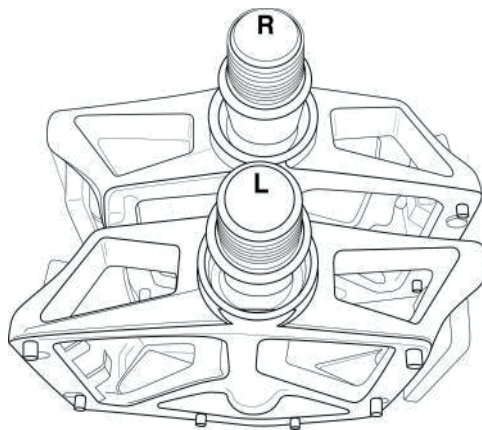
- 1) Insert the seat into the seatpost.
- 2) Adjust the seatpost according to your height, make sure it is within the safety line.
- 3) Push inward the quick release lever and tighten it.(A: If the seat post become loose, open the quick release lever, tight screw A and retighten the lever.)



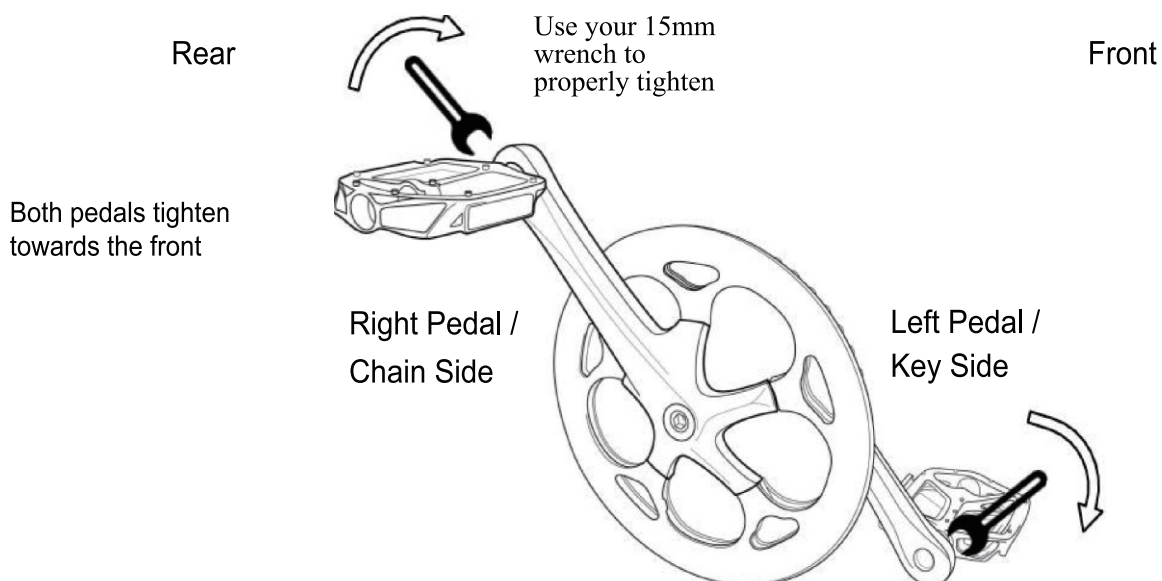


## Pedals Installation

- 1) Warning: Incorrect installation will cause damage. Please read the instructions and watch our videos if needed.
- 2) Identify the Left and Right markings on the pedals. They can only be installed in their respective side.
  - a. L is for the Left Pedal and it goes on the Left Crank Arm.
  - b. R is for the Right pedal and it goes on the Right Crank Arm (Chain Side).



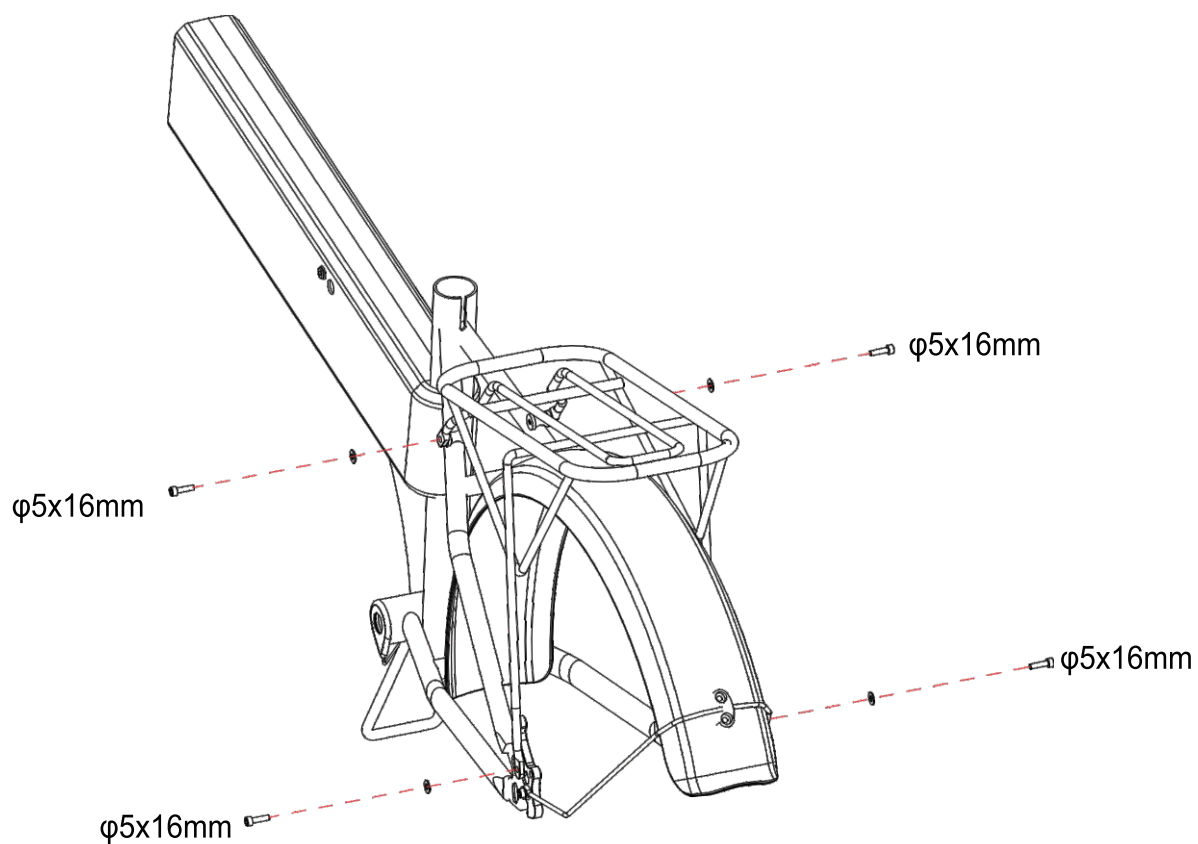
- 3) Sitting on your bike the pedals go on the Left and Right side respectively.
- 4) Keep the pedal Horizontal while hand screwing to get the thread started. Then Use your 15mm wrench to tighten them.
- 5) Both pedals tighten towards the front of the bike. The left pedal is reverse threaded to allow this.
- 6) The pedals need to be very tight, be sure to retighten after your **first** couple rides.



## Rear Rack Installation

Warning: Incorrect installation will cause damage. Please read the instructions and watch our videos if needed.

The rear rack is disassembled in the package.  
Please refer to the diagram as below and assemble it.

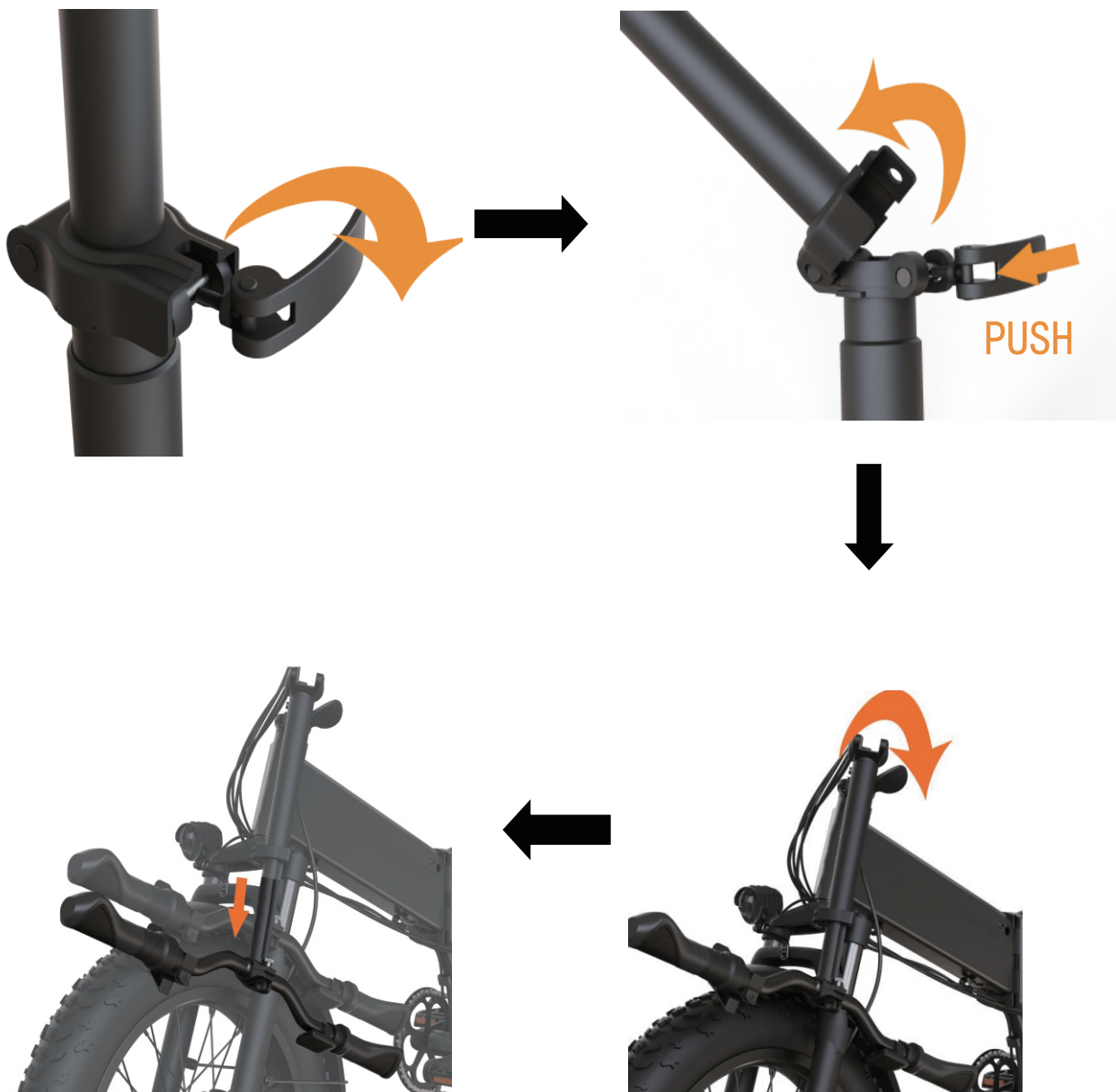




## Folding the Frame and the Handlebar

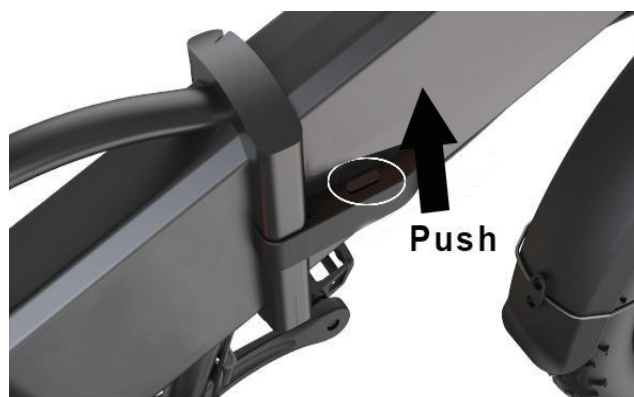
To fold the handlebar

- 1) Pull the quick release lever outward.
- 2) Hold and push the quick release lever frontwards and at the same time fold the stem tube down.
- 3) Release the quick-release lever on the handlebar and take it out of the stem tube.  
(Be careful of the wire harness to avoid any breakage)

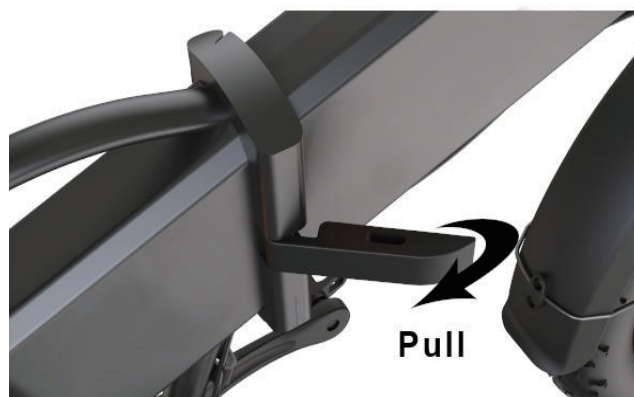


## Folding The Frame

Push the buckle on the folding lever forward and pull the lever out. With one hand holding the back of the bike, use the other hand to carefully move the front frame to the left side of the bike.



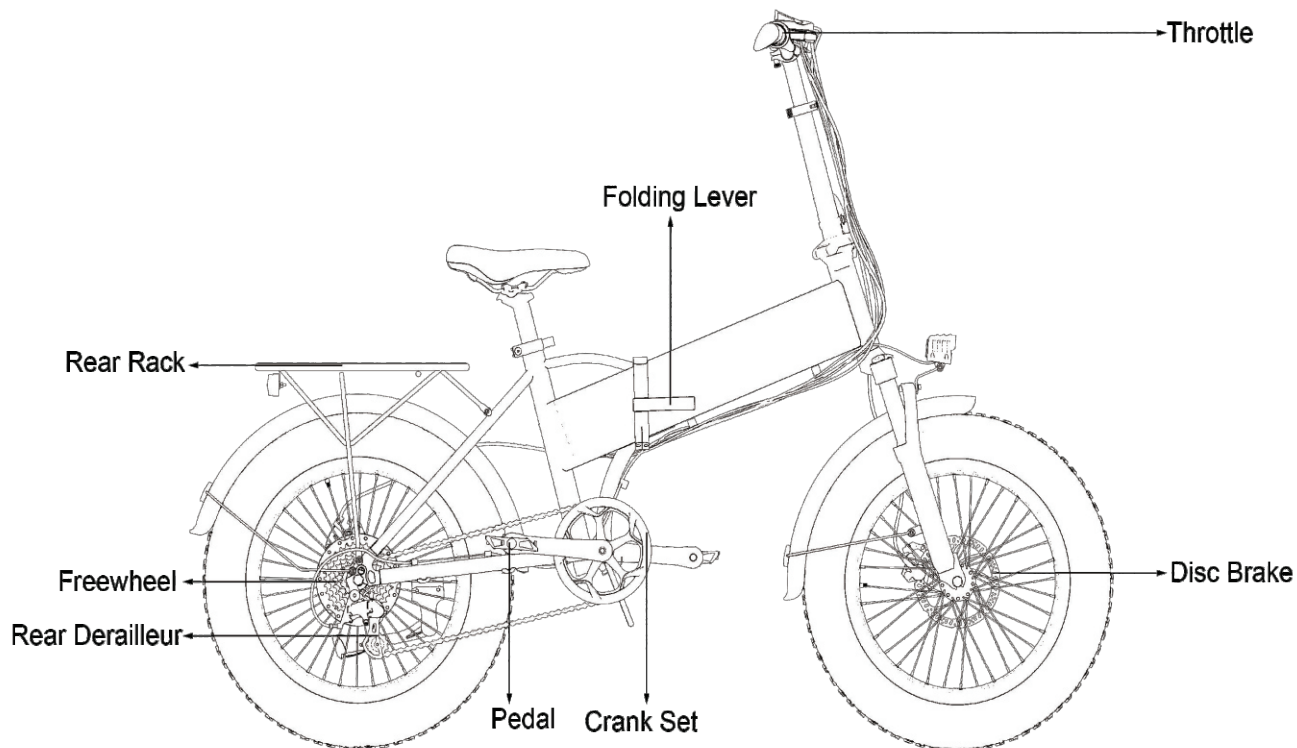
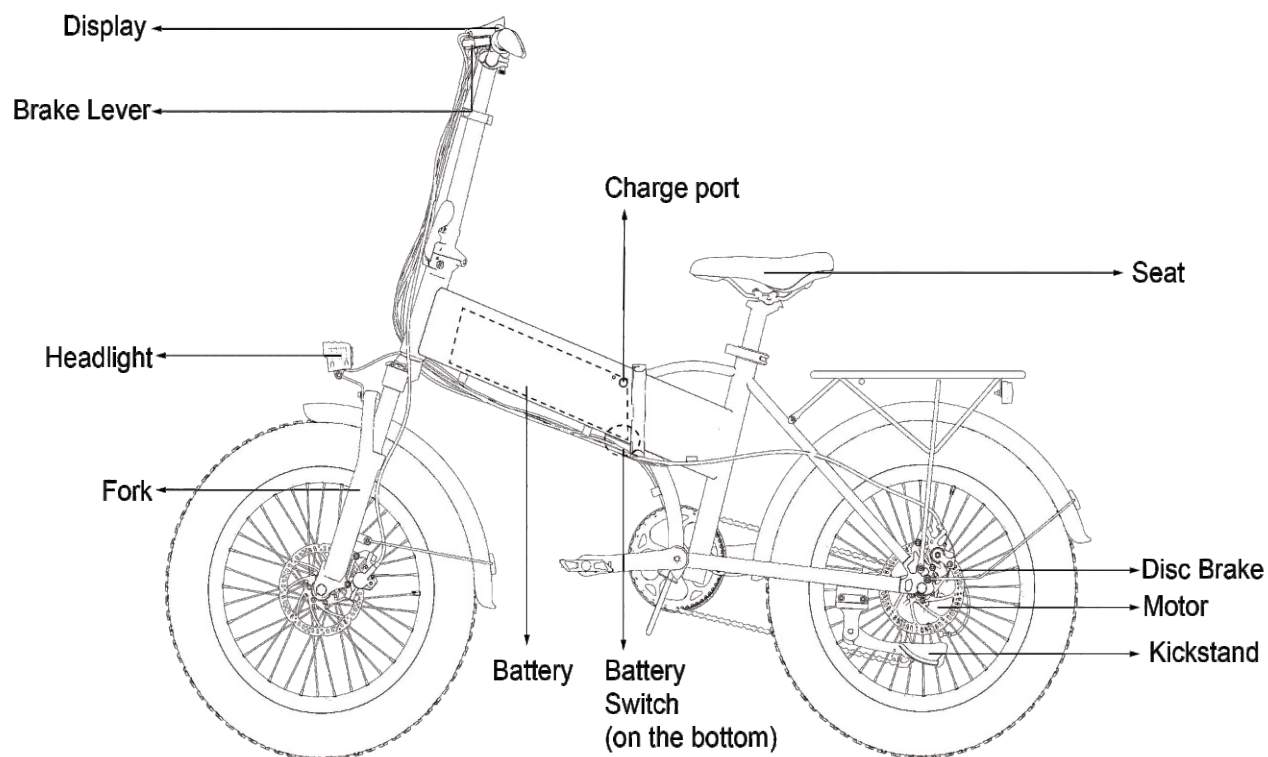
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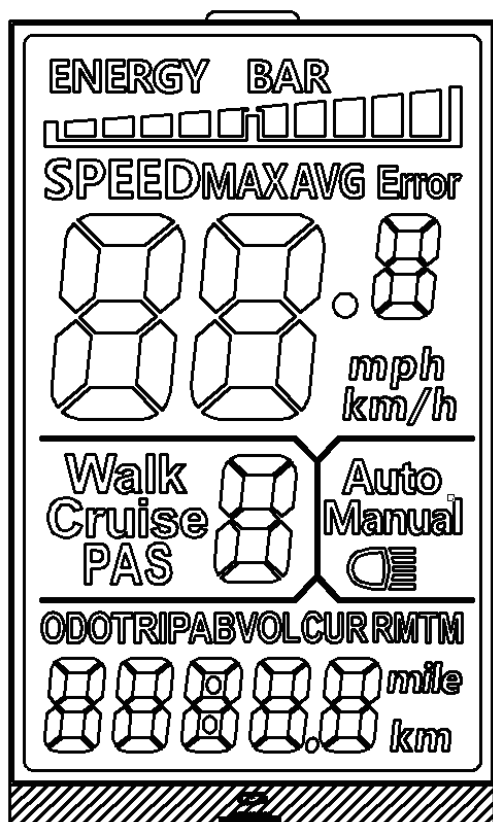


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## Part Name





## Display Details

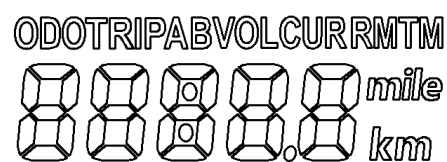
### 3.1 Light

### 3.2 Battery Level:



### 3.3 Multi-Functions Display

Total Mileage: ODO  
Single Mileage: TRIP



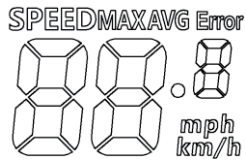
### 3.4 Assist Status Power Assist Status



### 3.5 Vehicle Mode

## Walk Auto Cruise Manual

### 3.6 Speed Display



The panel will calculate the actual travelling speed based on the wheel diameter and signal data (number of magnet steel is needed for Hall motors).

### 3.7 Error Code:

#### Code for Procotol SWC No2

Code (Decimal)	Indication	Note
0	Normal	
1	Reserved	
2	Brake	
3	Power Sensor Error (riding mark)	Not realizable
4	Reserved	
5	Reserved	
6	Low Battery Voltage	
7	Motor Error	
8	Throttle Error	
9	Controller Error	
10	Communications Receiving Error	
11	Communications Sending Error	
12	BMS Communications Error	
13	Light Error	

## 4. Keys

### Arrangement of Keys:



1.

M key, works as Mode Switch key and Power key.

If the display has NFC function, for security concerns, password is required when turning on the display by M key.



2.

Up key, also known as Plus key (common operation: press it and the value will add 1 "Plus").



3.

Down key, also known as Minus key (common operation: press it and the value will deduct 1 "Minus").

### Basic Operations:

1. Press (press and release a single key)

Press is used for frequent operations:

1.1 During ride, press Up or Down key to switch assist levels.

In settings, press Up or Down key to change the value for certain item.

1.2 Press the M key to switch items displayed in the multifunction

area. To avoid false triggering, normally press is not used in two-key operation, but some displays support double press (similar to "double click" on the mouse) or multiple press.

2. Long Press (long press a single key for over 1s before release);

Long press on a single key is used in non-frequent On/Off, e.g. Turn on/off the front light.

3. Multiple-Key Operation (long press 2 or more keys together for over 1s before release)

Compared to long press of a single key, multiple-key operation Is used in rarer cases.

## **Detailed Introduction of Key Operations**

### **1. Switch Assist Level**

On the home interface, press the Plus key or Minus key.

### **2. Switch Displayed Items in Multi-Function Area**

On the home interface, press M key to switch among total range (ODO), single trip range (TRIP), working time (TIME), battery voltage, working current, error code, etc. (not every model supports all the above items).

### **3. Turn On the Front Light (Backlight Brightness)**

Long press the Plus key to turn on/off the front light.

In most cases, the backlight of displays is on by default. However, in some cases, the backlight status is subject to (synchronized with) the front light.

### **4. Turn On 6km/h Walk Assist Mode or Cruise**

When the vehicle is parked, long press Minus key to enter 6km/h walk assist mode. To exit, normally release the key, yet in some rare cases subject to the controller, to exit, long press the Minus key again instead of simple

release.

Moreover, in some cases, the controller decides the speed of walk assist/cruise mode by the engaging motor speed, e.g. if the engaging speed is 0, enter 6km/h walk assist mode; if the engaging speed reaches a certain preset value (like 15km/h), the controller will turn on cruise mode, in this case, to exit 6km/h walk assist mode or cruise mode, long press the Minus key again.

### **5. Turn On/Off the Display**

Long press the M key to turn on/off the display

### **6. Display 3 Types of Speed**

Real-time speed (CUR), maximum speed (MAX), average speed (AVG)

Long press M key and Plus key to switch among 3 types of displayed speed.

If there's only one speed type displayed, the M key is invalid.

### **7. Setting Menu**

Long press Plus and Minus key together to enter the setting interface, available setting items as follows:

Backlight brightness, system unit, voltage class, auto-off time, assist levels, wheel size, magnetic steel number, speed limit, zero start and non-zero start, assist sensitivity, start power, type of PAS sensor disc, controller current and ODO clearance.

The setting area composes of two sectors: one is the numbering of parameters, normally displayed as PXX (XX is the number of parameter, e.g. P01 is the first parameter, often defined as backlight brightness). Another sector is the value of the parameter.

In Setting interface, press M key, the display will save the new parameter and switch to next item, e.g. P01->P02 press Plus or Minus key to adjust the value +1 or -1.

Some parameters have a wide range, e.g. wheel size, and press operation would be inefficient. In this case, long press Plus key to enter auto-plus mode to boost efficiency.

To clear total distance (P16 in most cases), long press Plus key for 5s, when the ODO sector shows 0, the total distance value is cleared.

Long press Plus and Minus to exit setting menu. In the setting menu without any operation for 10s, the system will automatically exit the setting mode to avoid false operation.

**Note: Due to product upgrade, the product you purchased may be slightly different from the descriptions in this user manual, and this won't affect normal usage.**



## Battery Charging

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- 1) Insert the charger into the charging port.
- 2) Plug the charger into an appropriate power outlet. When the charger is plugged in, the red light on the charger will illuminate to show that the bike battery is charging.
- 3) Make sure not to charge for longer than 8 hours at a time. When the battery is fully charged, the LED will turn green and charging will be stopped.

**Note:** *The charger is designed to automatically stop charging when the battery is full, but unnecessary wear of the charging components could occur if the charger is left attached to the battery and a power source for longer than 8 hours. Detach the charger as soon as possible once the green light indicates a complete charge, to avoid unnecessary wear of charging components.*

- 1) Once the battery is charged, unplug the charger from the power outlet.
- 2) Unplug the charger from the bike. Store the charger in a safe place for future use.

**⚠** Do not leave a charging bike unattended. Never charge for more than 8 hours at a time. Failure to follow battery charging practices could result in unnecessary wear to the charging components, battery, and or charger, and could lead to an under-performing or non-functional battery and replacement will not be covered under warranty.

### Notes of Charging:

- 1、Charging time varies from 6 to 8 hours.
- 2、The small LED light on the charger in RED indicates it is in charge; The small LED light on the charger in GREEN indicates it is fully charged.
- 3、Insufficient charging will not influence the battery lifecycle. AVOIDING deep discharge is helpful to protect the battery and extend its lifecycle.
- 4、Pay attention to check whether the surface temperature of the battery case rises too high during charging. It is FORBIDDEN to cover the battery during charging.
- 5、Due to the high temperatures in summer, it is NOT advisable to charge the battery immediately after riding. In winter, it is FORBIDDEN to charge the battery in an environment below 0°C. It is recommended to charge the battery at room temperature.
- 6、If the bike will not be used for a long period, discharge its capacity to 60%-80% for stock. Disconnect it from the charger and place the bike in a dry, ventilated place without direct sunlight. In order to maintain a long lifecycle, it is recommended to charge the bike every two months.

## Error Code

Error Code	Error	Notes
<b>0</b>	Normal	Normal status.
<b>2</b>	Braked	The bike is braked, check to see if the brake lever can be shifted to normal status.
<b>6</b>	Low Voltage Protection	The battery voltage is too low to operate. Charge the battery. If the error still shows, contact technical support.
<b>7</b>	Motor Fault	The motor is unable to operate normally. Contact technical support.
<b>8</b>	Throttle Fault	The throttle is unable to operate normally. Contact technical support.
<b>9</b>	Controller Fault	The controller is unable to operate normally. Contact technical support.
<b>10/11</b>	Communication Fault	Poor connection between the controller and the display. Contact technical support.
<b>13</b>	Headlight Fault	The headlight is unable to operate normally. Contact technical support.

## Basic Trouble Shooting

SYMPTOMS	CAUSES	SOLUTIONS
Throttle and pedal assist not working	Battery off	Turn on battery
	Battery installation	Reseat battery
	LCD display not on	Turn on LCD display
	Discharged battery	Charge battery
	Brake sensors engaged	Inspect brake lever
Reduced speed	Low battery power	Charge battery
Reduced battery range	Low battery power	Charge battery
	Low tire pressure	Inspect tire
	Heavy load on bike	Adjust bike load
	Driving on rough terrain	Adjust route
	Using throttle only	Include pedal assist
Battery does not charge	Charger not properly connected	Inspect connections
	Battery temperature	Read the user manual for best practices
	Damaged charger	Replace charger
	Issue with battery	Contact Support Team
E-bike making strange noises	Loose hardware	Tune-up and inspection needed
	Issue on drivetrain	Maintenance needed
	Issue with motor	Contact Support Team



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