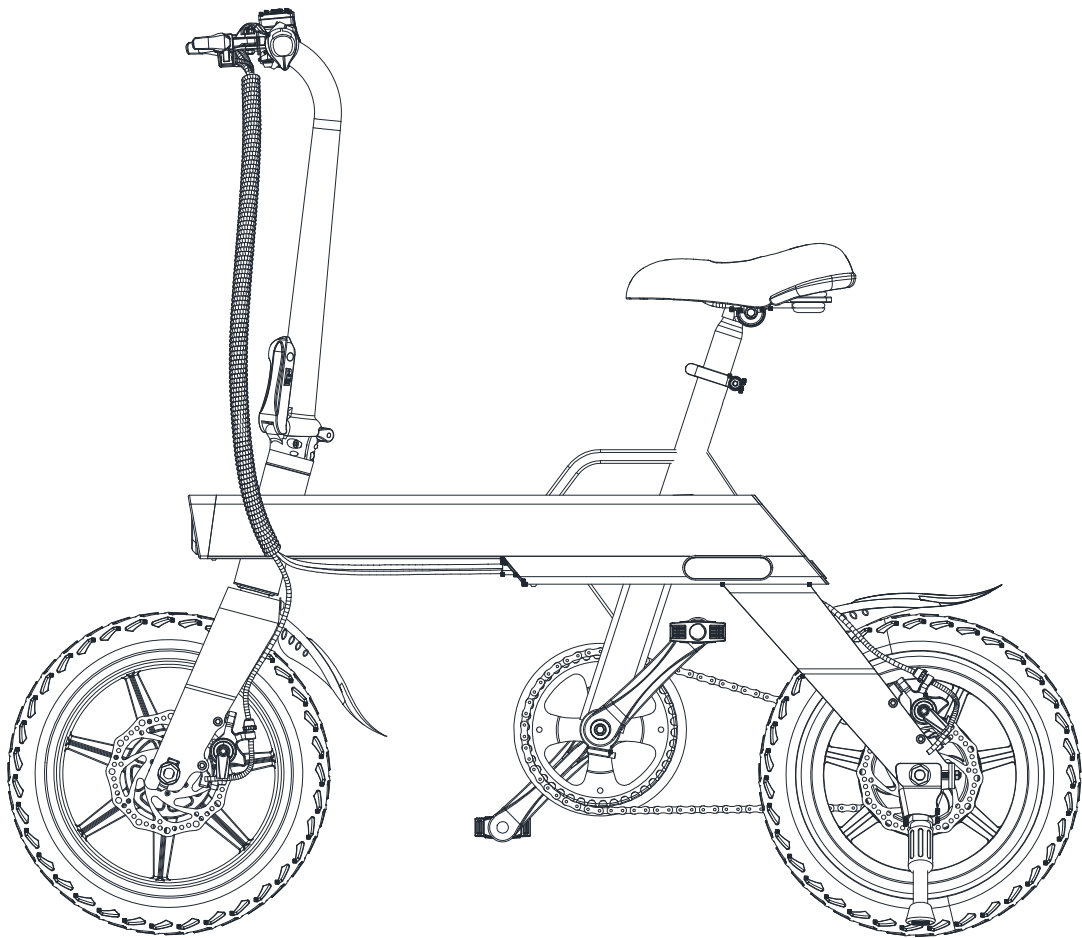


# Instruction Manual of VTO



V1.0


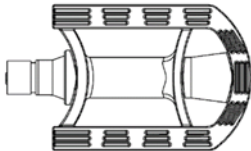

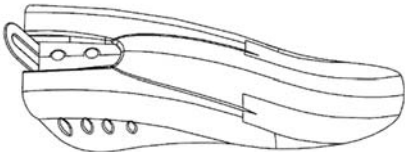

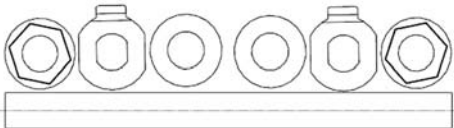

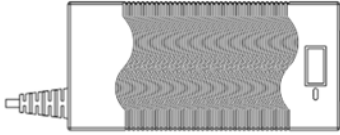
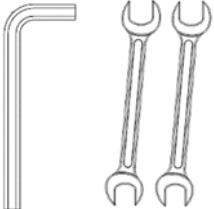

# Catalogue

Notice for using.....	1
Accessories in the box.....	2
Product Part Description.....	3
Product Parameter .....	4
Product Bomb .....	5
Bomb List.....	6
Installation Instructions .....	7
Instrument diagram .....	10
Instrument display instructions.....	10
Instrument Operation Instructions.....	11
1.Key Description.....	11
2. Speed indication .....	11
3. Display range.....	11
4. Mileage indication.....	12
Error code.....	13
Maintenance.....	14
Warning! .....	15
Disclaimers.....	16

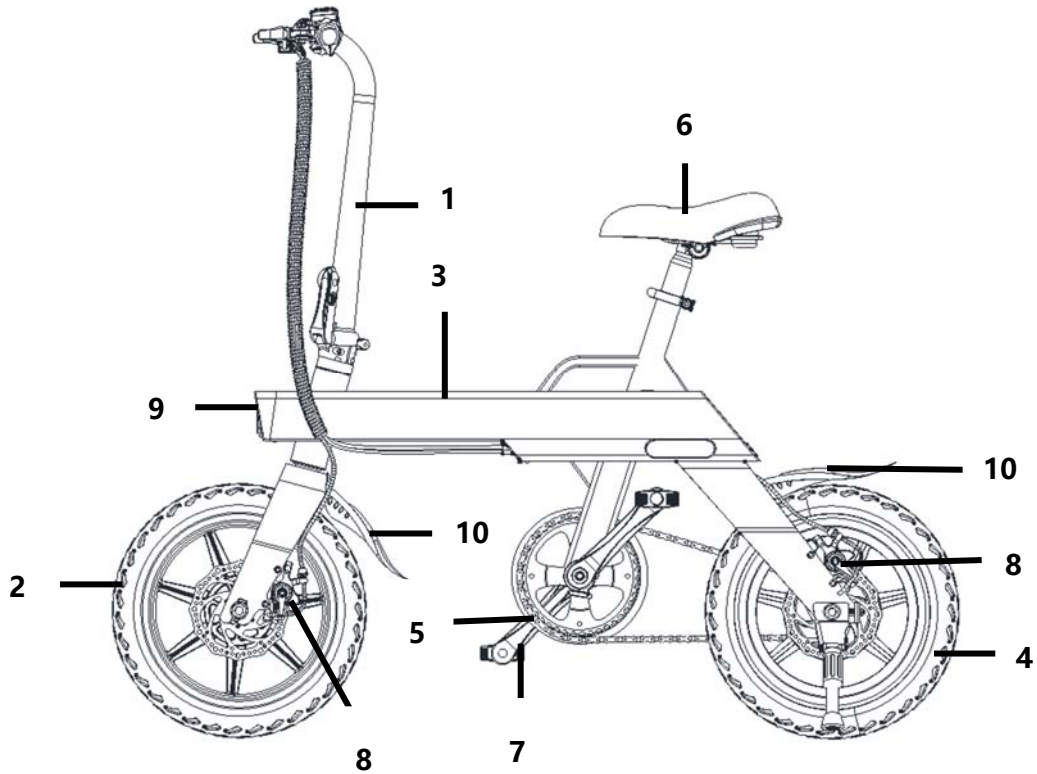
# Notice for using

- 1. If the electric bicycle will be not used for a long time, the lithium battery should be fully charged and stored, and fully charged once every six months;**
- 2. When the temperature is below 0°C, the battery power will decrease, which may affect the driving range accordingly;**
- 3. The normal working voltage of the product is 36V. When charging the product, please be sure to use the charger of the original factory to avoid unnecessary faults and security risks (If the charger is lost, please contact the local dealer).**
- 4. Be sure to check the condition (including tires, brakes, battery... and other product indicators) of your electric scooter before taking a long range trip.**
- 5. After using the product each time, ensure that the remaining voltage is not less than 30.0V (please turn to the first part of "M" key of page 11 to check. when lower, please charge in time.)**
- 6. For the storage of this product, please avoid long-term direct exposure to the sun, high temperature, flammable, damp and corrosive environment.**
- 7. Before using, you' d better read the instruction carefully, and understand the status and operating steps of this product in detail, so as to avoid unnecessary dangers during use.**
- 8. After the use of the product, it is necessary to recharge in time when the battery is low. If the battery is permanently damaged (including endogenous battery damage) and the battery range is missing in the case of long-term power shortage, the company will not bear the personal property loss caused by artificial damage.**

# Accessories in the box

<p><b>The main body</b></p>	<p><b>Pedal</b></p>
	
<p><b>Engaged wheel</b></p>	<p><b>Rear Fender</b></p>
	
<p><b>Saddle</b></p>	<p><b>Shafts of engaged wheel</b></p>
	
<p><b>Toolkit</b></p>	<p><b>Charger</b></p>
	
<p><b>Repair tool</b></p>	<p><b>Instruction manual</b></p>
	

# Product Part Description



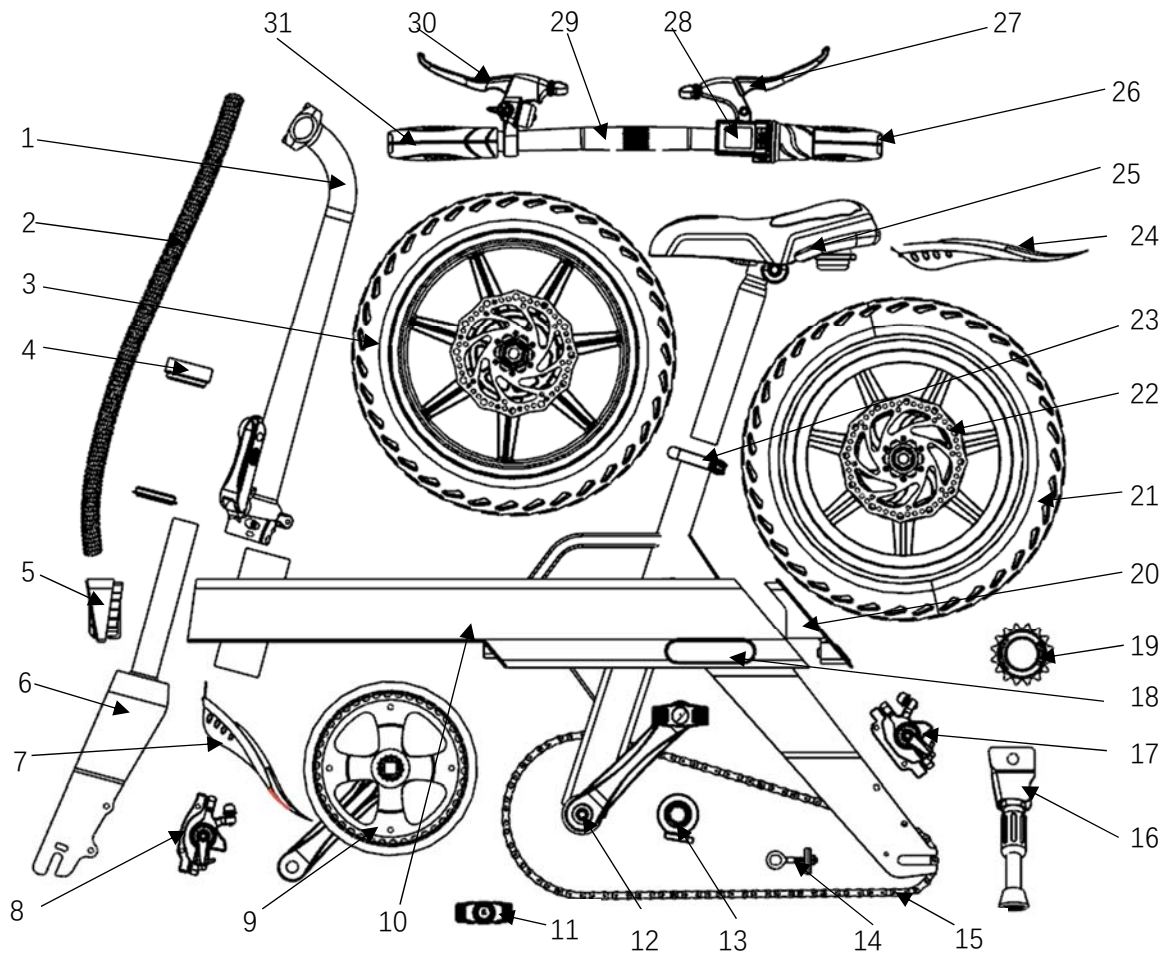
## Main parts description

Serial Number	Part Name	Serial Number	Part Name
1	Stem	6	Saddle
2	Engaged wheel	7	Crank
3	The main body	8	Disc brake
4	Driving wheel	9	Headlight
5	Crankset	10	Splash guard

# Product Parameter

<b>Name</b>	<b>VTO electric bicycle</b>		
<b>Working Voltage</b>	<b>36V</b>	<b>Battery' s Capacity</b>	<b>18650、4-10AH</b>
<b>Motor Power</b>	<b>36V-350W</b>	<b>Max Load</b>	<b>120KG</b>
<b>Material</b>	<b>6061Aluminum Alloy</b>	<b>Max speed</b>	<b>0-25KM/H</b>
<b>Brake</b>	<b>Front and rear φ140 disc brakes</b>	<b>Waterproof Level</b>	<b>IPX5</b>
<b>Tyre Size</b>	<b>14"inflatable tyre</b>	<b>Light</b>	<b>Front LED light and brake light</b>
<b>Speed/Gear</b>	<b>1/15, 2/20, 3/25</b>	<b>Charging Time</b>	<b>6H</b>

# Product Bomb



# Bomb List

No.	Name	Quantity	No.	Name	Quantity
1	Folding seat tube	1	17	Rear disc Brake	1
2	spring coils	1	18	reflectors	2
3	auxiliary wheels	1set	19	Freewheel	1
4	seven pieces of bowl	1set	20	rear tail light	1
5	headlights	1	21	drive wheels	1set
6	Front fork	1	22	Disc brake	2
7	Front mudguard	1	23	Seat post locking buckle	1set
8	Front disc Brake	1	24	Rear mudguard	1
9	Crankset	1set	25	Saddle	1set
10	Frames	1	26	Right Grip	1
11	Pedal	1set	27	Right side power off brake lever	1
12	Central axle	1set	28	Instrument	1
13	Sensor	1	29	Handlebar	1
14	jack	2sets	30	Left side power off brake handle	1
15	Chain	1	31	Left handle	1
16	Foot support	1			

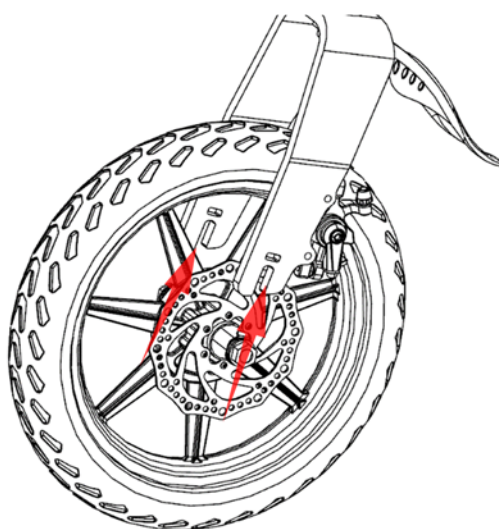


# Installation Instructions

**1. Open the outer package of the product, then check the accessories according to the instructions and confirm whether the accessories conform to the description in the instructions (check the appearance of the product), then complete the product operation according to the following instructions.**

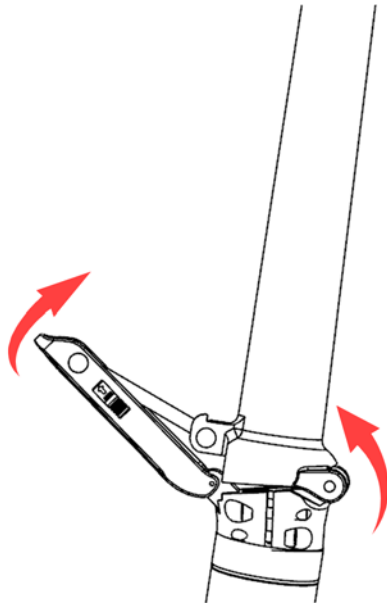
**2. Take out the main body, connect and tighten the engaged wheel (front wheel) with the front fork of the main body.**

**Note: (When the front axle is installed, the left and right spacers are different in length, and the short spacer should be installed on the disc brake side).**



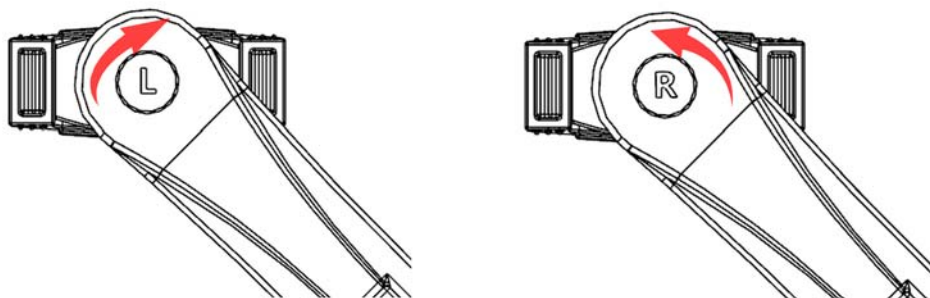
**3. Straighten the folding stem and tighten the lock catch.**

**Note :(the locked stem should not shake.)**

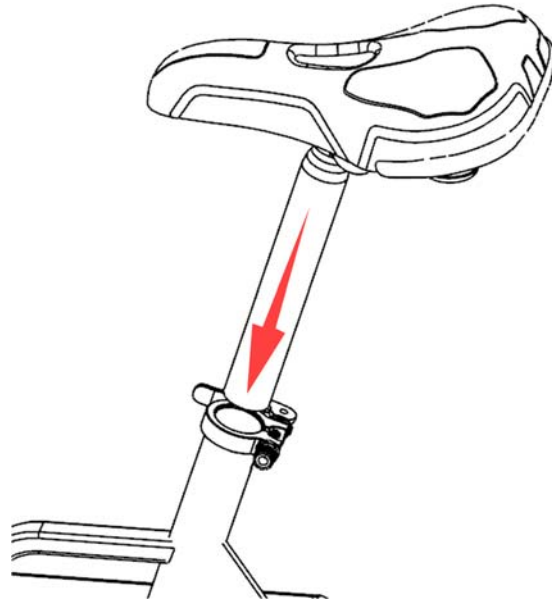


**4. Tighten the pedal to the crank using the tool in the kit.**

**(The rotation direction is shown below)**



**5. Install the cushion and cushion tube to the body, adjust the height and angle of the cushion, and lock the lock catch of the cushion until it is stable.**

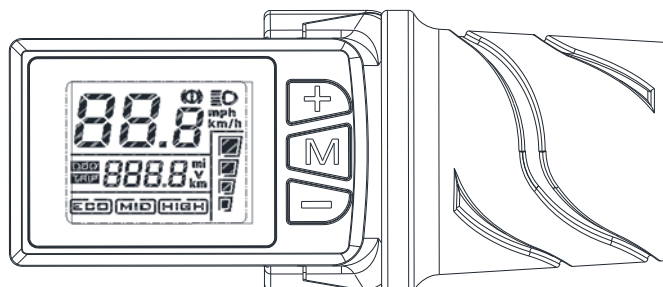


**6. Turn on the power (long press the "M" key on the dashboard); Turn on the headlights (long press the "+" key on the dashboard); Check that the atmosphere lights, headlights, and rear taillights (on when braking) are displayed properly.**








**7. Open foot support and ride on open road (instrument function and riding operation, please refer to instrument function and fault description below).**

# Instrument instructions

## Instrument diagram



## Instrument display instructions

Name	diagram	instructions
Speed		Display real-time speed information in km/h or mph The speed must change continuously, no jump changes are allowed: for example: jump directly from 20km/h to 0km/h.
Electricity		Battery power: the power is displayed in 4 segments, and the last segment flashes when the voltage is low,
Voltage		The mileage area displays the real-time battery output voltage.
Total mileage		Display the total accumulated mileage, the display unit is km or mile.
Single mileage		Display the current riding mileage, the display unit is km or mile.
Gear		ECO-Low, MID-Mid, HIGH-High
Error code		Display fault code.

# Instrument Operation Instructions

## 1. Key Description

The meter has 3 buttons, "+", "M", "-"

"M" key: long press to turn on/off the main power of the instrument.

Short press to switch the displayed content in the mileage area. (Total mileage

-> single mileage -> battery voltage -> PWM value of the handlebar -> fault

(display when fault occurs)

"+" key: short press to increase gear.

Long press to turn on/off the headlight (the headlight function is turned on

and the switch function needs to be realized by the controller module)

"-" key: short press to decrease gear

Press and hold the "+" and "-" buttons simultaneously for 3 seconds to enter

or exit the parameter setting interface

## 2. Speed indication

### 2.1. representation

With one decimal point, three significant figures, the unit is km/h or

mph, and the display resolution is 0.1

## 3. Display range

0.0~99.9.

**The maximum displayed value is 99.9.**

**Below 0.5, 0 remains displayed.**

### **3.1. Data sources**

**data sent from the controller**

### **3.2, reset method**

**Power off and clear**

## **4. Mileage indication**

### **4.1. Single subtotal mileage**

#### **(1) Representation**

**With one decimal point, four significant figures, the unit is km or mile, and the display resolution is 0.1.**

#### **(2) Display range**

**Data range 0.0~999.9**

#### **(3) Data sources**

**Calculated based on the displayed speed integral**

#### **(4) Reset method**

**Shut down and clear**

### **4.2. Total mileage**

#### **(1) Representation**

**Four significant digits, the unit is mile or km, and the display resolution is 0.1**

#### **(2) Display range**

**Data range 0~9999**

**(3) Data sources**

**Accumulate all miles**

**(4) Reset method**

**Cleared when the value exceeds 9999 or cleared within the parameter setting**

## **Error code**

Code	Description
E001	The instrument cannot receive the data from the controller or the received data is wrong data
E002	The controller cannot receive the data of the instrument or the received data is wrong data
E003	Controller failure
E004	Motor Hall fault
E005	Motor phase loss fault
E006	Turning handle failure
E007	Brake lever failure
E008	Power assist sensor failure
E09	Motor is under voltage protection

# Maintenance

- 1. This bike belongs to electric products, please store it in a cool and dry environment if it is not used for a long time. Do not place it together with inflammable and explosive articles.**
- 2. Regular maintenance is required for product chain transmission device, vulnerable parts (tires, brakes, brake discs, pedal etc.), such as lubrication of product chain, drying and cleaning of the surface of electrical parts.**
- 3. When the product is not used for a long time, ensure that the battery in the product has a long-term power supply, and the minimum battery storage voltage shall not be less than 30V.**
- 4. This product is an electronic product. The service life of the battery is 500-800 charge-discharge cycles, and one charge and discharge are one cycle.**



# **Warning!**

- 1. Indoor charging is not allowed. Do not charge near inflammable or explosive objects.**
- 2. Before riding, please make sure that the user has read the instructions carefully.**
- 3. When riding in water, pay attention to the water level should not exceed the height of the rear-wheel-drive motor, so as not to cause circuit break or short circuit of electrical parts. Don't do anything dangerous. For example, the product shall not be immersed in water!**
- 4. Do not hang things on the steering lever to avoid losing balance during riding;**
- 5. Minors, pregnant women and the elderly are not allowed to use electric bikes;**
- 6. This product is for single seat and single person riding. It is forbidden to entrap children and adults in the riding.**
- 7. Unauthorized demolition and alteration of the product are prohibited. The loss caused thereby shall be borne by the user.**

# **Disclaimers**

- 1. The company has the right of final interpretation for the product. Users must read the instructions carefully before using the product.**
- 2. Users shall bear all adverse consequences arising from the abnormal operation of the product as described in the warning;**
- 3. If you need more than the product, please contact the local distributor. This instruction is only valid for this product.**