

**RAEV**

# BULLET

User Manual of Electric Bicycle



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# 1. Basic Information

## 1.1 Unpacking Information

1x Bicycle

1x Wheel

2x Pedal

1x Charger

2x Keys

6x Tools

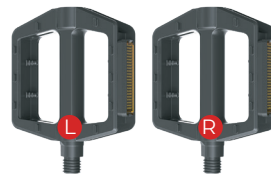
1x User Manual



1x Bicycle



1x Wheel



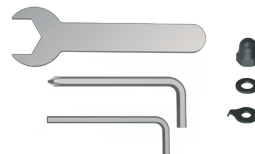
2x Pedal



1x Charger



2x Keys

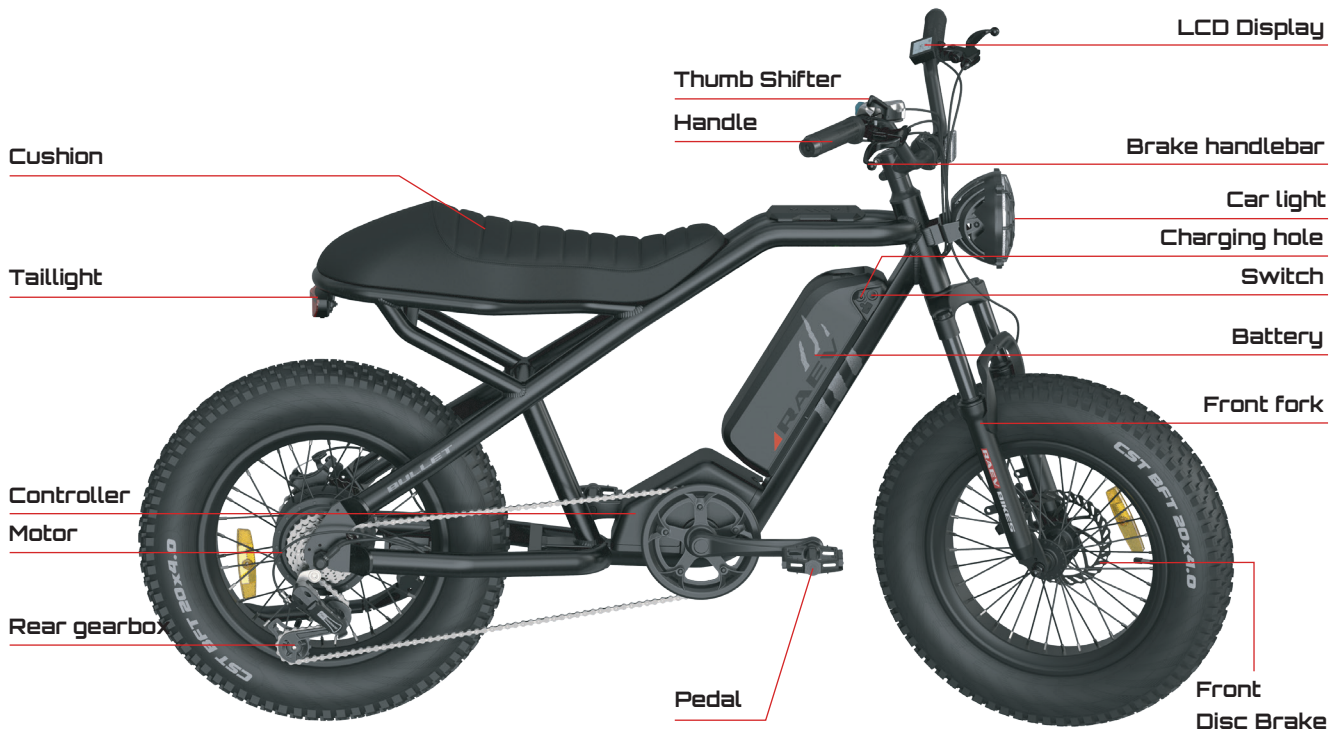


6x Tools



1x User Manual

## 1.2 Parts Description



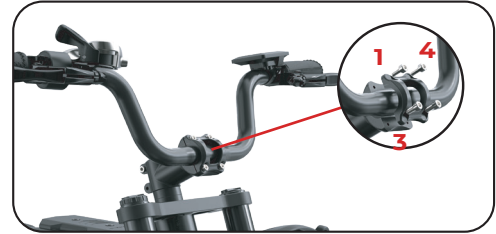
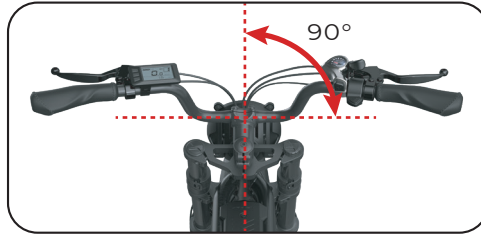
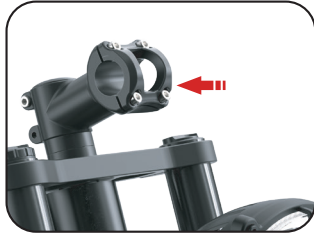
## 2. Installation Procedure

### 2.1 Handlebar Installation

Remove the pre-tightened set screws of the handlebar end cover using 4mm socket head wrench

Place the handlebar, adjust it to a suitable angle, close the end cover of the handlebar and pre-tighten 4 screws using 4mm socket head wrench

Tighten set screws of the handlebar end cover in the order of 1, 2, 3 and 4

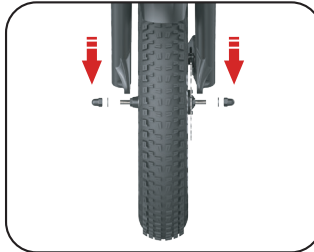


### 2.2 Front Wheel Installation

Align the front disc at the space of the gateway lining, align the front axle at the front fork axle hole and insert it into the hole

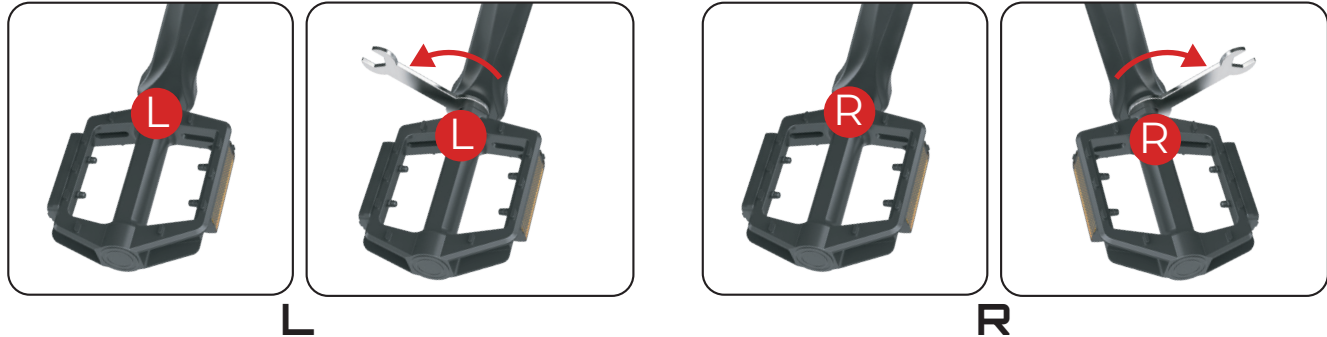
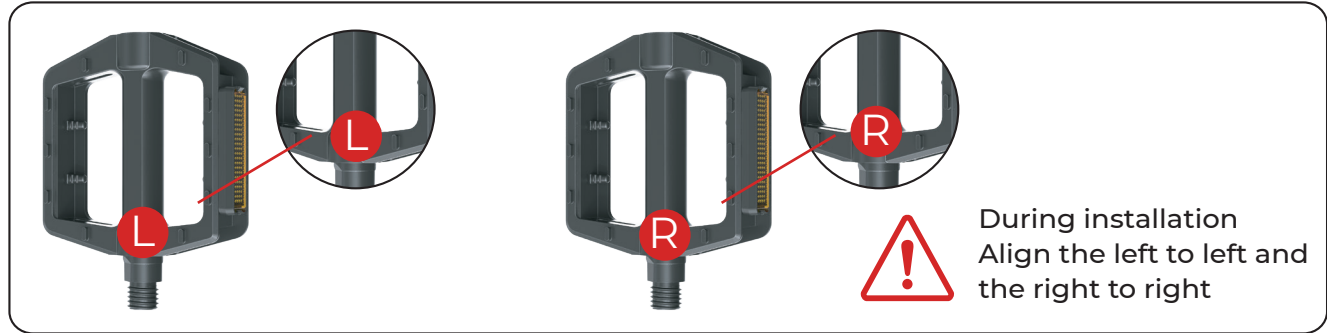
Install gaskets and cap nuts on both sides

Tighten cap nuts on both sides using 15mm open spanner



## 2.3 Pedal Installation

- Differentiate the identifiers of left and right pedals, L means left pedal and R means right pedal
- When installing pedals, keep the pedal bolt end face vertical to the mounting hole of the crank and tighten and fix it using 15mm open spanner  
(When installing the left pedal, rotate it anticlockwise; when installing the right pedal, rotate it clockwise)



## 2.4 Battery Installation and Removal

- Inset the key, rotate it to ON state and place the battery in the body preset position;
- Forcibly push the battery downward to the bottom
- Rotate the key to Lock state and pull it out



### 3. Battery Charging

- Open the soft cover on the battery side
- Insert the plug of the charger into the charging port of the battery and connect the other plug to the power supply
- The status light of the charger is red
- After the battery is fully charged, the status light of the charger is green
- Remove the charger, keep it properly and close the soft cover
- If the battery is charged on board, please power off the instrument





## 4. Riding Introduction

### 4.1 Riding mode

- In EV mode, press and hold ON. After power-off, adjust the gears (1-3) by Instrument  $\pm$  Key, and pull the speed thumb shifter to enter EV mode
- In assistant mode, press and hold ON. After power-on, adjust the gears (1-3) by Instrument  $\pm$  Key, step on the pedal for more than half a cycle to enter assistant mode
- In manual riding mode-press and hold ON. After power-on, adjust the gear (0) by Instrument  $\pm$  Key, and step on the pedal to enter manual riding mode

Note: The maximum speed at gear 1 is 12mph, that at gear 2 is 18mph and that at gear 3 is 25mph



## 4.2 Introduction to Instrument Key Functions

- ON/OFF: Press and hold ON for more than 2s to turn on the power; in startup state, press and hold ON for more than 2s to turn off the power
- M mode key: In startup state, the displayed information is switched among total distance (mileage/h), trip distance (mileage/h), riding time (h), total distance (mileage/h), maximum speed (mileage/h) and average speed (mileage/h)
- ± key: In startup state, press and hold + for 2s to turn on the instrument backlight and turn on the headlamp. When the headlamp is turned on, press and hold for 2s to turn off the headlamp. Short press ± to switch among assistance gears (0-3) of the electric bicycle. Gear 1 means that the instrument is turned on, and gear 0 means parking mode and no motor output

Headlight indication

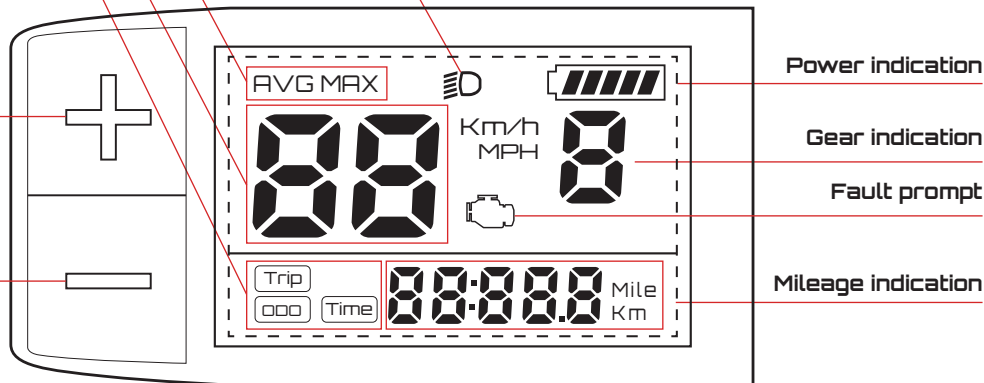
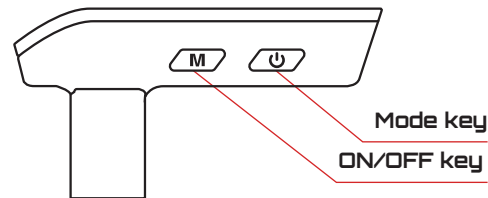
Speed mode

Speed display

Mileage mode

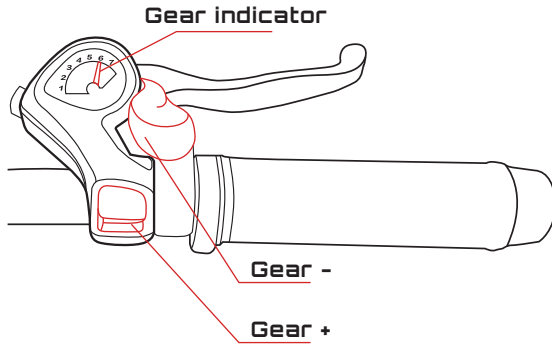
UP key

Down key



# 5. Use of Gearbox

## 5.1 Gearbox Diagram



Gear	Strength	Speed
1-3	Relaxed	Slow
4-5	Moderate	Medium
6-7	Laboursome	Fast

- For acceleration, run at a low speed at first. With acceleration, switch to a high gear.
  - When driving uphill, the speed will decrease. Lower the gear to keep a certain riding speed
- It is easier to accelerate in the wind direction. Raise the gear to keep a certain riding speed
- Rising suggestions are given above, and gears can be reasonably adjusted according to personal habit

## 5.2 Pay Attention to the Following Details When Using the Drive System

- When using the transmission system, try not to change speed over gears to avoid damaging the gearbox. That is, do not switch more than two gears each time but gear by gear to protect the transmission system
- When the electric bicycle stops or goes downhill, do not run the drive system reversely, which may damage the drive system and cause an accident
- If the gearbox breaks down, or the gear is inaccurate, gearbox performance may be affected. In this case, timely maintain it at a repair shop to avoid aggravation of fault

## 6. Precautions about Use

### 6.1 Compliance with Traffic Laws and Traffic Safety Tips

- Do not refit the electric bicycle without permission; with maximum load of 100kg, the electric bicycle must not be overloaded
- Do not lend the electric bicycle to people who cannot drive it to avoid injury
- The electric bicycle should carry personnel or articles according to laws and regulations
- The driver must wear a helmet and be cautious when driving an electric bicycle and must not hold the handlebar by no or one hand
- The brake distance will extend in rainy and snowy weather, slow down; in stormy weather and severe weather, try not to ride an electric bicycle
- When waiting for the traffic light for a long time, please adjust to gear 0, or hold the brake instead of stepping on the pedal to starting the electric bicycle

### 6.2 Safety Precautions about Electric Bicycle

- Do not park an electric bicycle in the lobby, escape stair, passage and emergency exit of buildings;
- Do not charge and park the electric bicycle in a residential building, keep far away from combustibles in the charging process and do not charge the electric bicycle for a long time
- Correctly use and maintain the batteries. Waste batteries should not be dismantled arbitrarily and should be recycled by related departments
- Understand safe use methods and warning signs of charger
- The charger should match the battery
- To avoid an accident potential caused by wetting of internal electronic parts and circuits, do not wash an electric bicycle with water
- When adjusting the handlebar or the saddle, safety signs of handlebar pipe and saddle pipe should not be exposed (if applicable)
- The electric bicycle should be regularly maintained: The electric bicycle should be maintained every 2 times and complex parts should be maintained by a repair shop

### 6.3 Preparation for Riding

- Check whether the power circuit and the light are normal
- Check whether the front and rear brakes work normally
- Check whether the handlebars and front and rear wheels are tightened
- Whether the tire pressure is normal (see the tire label)
- Check whether the reflector is damaged or polluted before driving

### 6.4 Code Position Diagram

XXXXXXXXXXXXXXXXXX



## 7. Battery

### 7.1 Precautions about Use of Lithium Battery

- Confirm battery model is original battery before use. Do not use batteries of other brands without permission
- Check whether the lithium battery is intact and has damage, leakage, heat emission, moisture, smoke and other obvious phenomena
- To ensure transportation safety, the battery quantity is about 30% upon delivery. Due to power consumption during transportation and storage, it is normal that the battery quantity is low or the battery has run out of power when used for the first time. Please do not worry
- Please charge the battery for 24h when it is used for the first time after purchased or stored for a long time

### 7.2 Operating Environment

- The optimal operating temperature is 10 C-45 C;
- The battery capacity may decrease in varying degrees at low temperature as follows:  
The available capacity is about 70% at -10 C, about 85% at 0 C and about 100% at 25 C; if the battery gives out peculiar smell, emits heat, deforms and has other abnormal conditions, please immediately stop using it, keep far away from it and contact the after-sales service department;

## Warning

Battery is not a repairable part. In case of abnormalities, the battery may emit heat, give out smoke and cause a fire and explosion.

## 7.3 Charging Environment

- Charge the battery using original charger instead of charger of other brands or models
- Please charge the battery at 0°C -40°C in a well-ventilated place and keep off combustibles
- Charging time: Do not charge the battery for more than 12h; otherwise, the battery life will be affected and a potential safety hazard will be caused
- Hazard will be caused; the battery capacity will rise quickly in the early charging process and then slow down, which is a normal procedure to ensure safety
- Do not charge the battery outdoors in severe weather
- If the surface temperature of the battery box is very high (higher than 55°C) in the charging process, it indicates that the battery box breaks down and should be immediately powered off and sent to the designated repair station. It is normal that the charger box is slightly hot (no more than 60°C) in the charging process

## 7.4 Storage Environment

- After the battery is installed, the battery capacity will be slowly consumed when the electric bicycle runs. The fully charged battery can be placed for no more than two months and it is normal that the instrument displays a drop of battery capacity
- When the battery is left unused for a long time (more than a month), please be sure to remove it from the electric bicycle and charge the battery to half-saturated state (after fully discharged, charge the battery for 1.5-2h using charger). Then, store the battery in a cool and dry place (the optimal temperature is 5°C -25°C) and charge it for about 3h every two months
- The battery and the charger should be stored in clean, dry and well-ventilated place and far away from corrosive substances, ignition and heat sources (no less than 2m) and combustibles and they should be disconnected;
- The optimal battery capacity is 50%. If the battery is stored for a long time when the capacity is lower than 10% or higher than 90%, the capacity will decrease irreversibly
- Do not store the battery in a high place, since drop may cause uncontrollable internal damage, leakage, heat, smoke, fire or explosion to battery

The electric vehicle and battery should be protected from rain, ice, snow and chemical substance when used and stored and must not be washed with water to avoid an accident potential caused by wetting of internal electronic parts and circuits

## 8. Technical Parameters

The endurance mileage is measured when the battery is fully charged, at load of 70kg, temperature of about 25 C, gear 1 and constant speed of 12mph, on flat road surface, in a windless environment. Actual endurance mileage may differ with load, temperature, wind speed, road surface, operating habit and other factors.

Product name	Bullet
Net weight	34kg
Product size	1720*670*1060mm
Packaging box size	1500*340*820mm
Maximum gradient	12° (load 100kg)
Load capacity	220lb./100kg
Maximum speed	25mph/40km/h
Endurance mileage	25miles/40km
Motor	500W
Battery capacity	48V13Ah
Charging voltage	90-264V
Wheel diameter	20in.
Charging time	6.5hours
Waterproofing grade	IPX4
Storage temperature	20°C-25°C/68°F-77°F
Operating temperature	-4°F-140°F/-20°C~60°C
Charging temperature	32°F-104°F/0°C-40°C
Warranty	1 Year Limited

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