



.il Junma
Electric Bicycle



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USER MANUAL
ELECTRIC BICYCLE

Creative ideas
Sincere cooperation

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Foreword

Dear Customer:

We really appreciate that you use our electric bicycles! our company is one of the largest professional electric bicycles manufacturing companies in China, we have a large number of electric bicycles as leading brand products.

Make top-grade product, create brand in the world is our company goal. We locate to be a leader of the Chinese electric bicycles companies, commit to the development of the human environmental transport. Our bicycles have become Well-known and best-selling brand in China now.

Customer' s needs is our pursuit.

"Technological innovation, continuous improvement" is our company operation philosophy. We strictly according to the ISO9001:2000 international quality management system requirements to development and produce high-quality electric bicycles. Our electric bicycles can satisfy different requirement of different region and different consumption levels, as our electric bicycles have 5 series , more than 20 styles, and complete product system.

We hope that you are completely satisfied with our electric bicycles, and hope that it will provide you with long and effective service.

Your comment will be highly appreciated, so hope you can tell us, your friends and relatives the riding experience, viewpoint and opinion without reservation, at the same time, it can improve our electric bicycles gradually.

The best service follow with your life, wishing you are happy and relax on the way.

Instruction Manual

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Subject Description

Notes

Detail Description

TDE-001Z Technical parameters and performance indicators

The bicycles main parameters:

Net weight:	≤23kg
Range per charge:	≥40km
Bicycle loading capacity:	75kg
Tire specification:	26 inch × 1.95 inch
Maximum travel speed:	<25km/h
Power consumption:	<1.2kwh/100km
Dimensions:	1700mm × 650mm × 1020mm
The distance of the front and rear wheel:	1130mm

Battery main technical parameters:

Type:	Lithium battery
Battery capacity:	7.8Ah
Voltage:	36V

Controller main technical parameters:

undervoltage protection value:	31.5±2V
overcurrent protection value:	15A±2A

Electric motor main technical parameters

Type:	High efficiency permanent magnet (brushless)
Maximum ride noise:	≤62dB
watt:	240W
voltage:	36V

Charger:

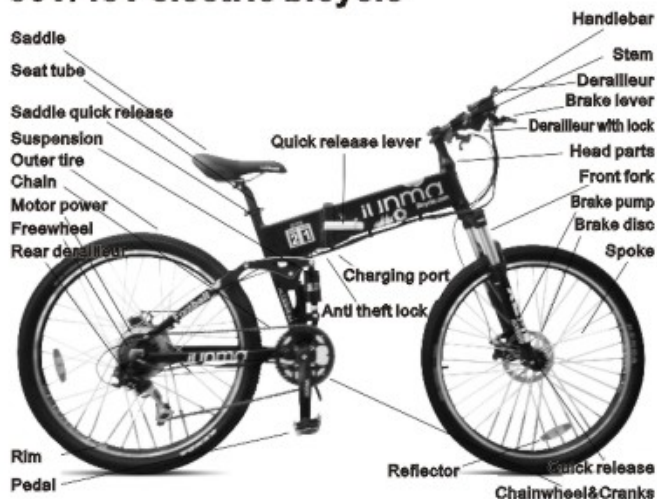
Input voltage:	AC90-240V/50Hz
Charging time:	3~8 hours
Driven type:	shaft drive
Brake mode:	Front and rear disc brake

★Standard state:

1. The battery is new.
2. The room temperature is 25°C, less than light wind.
3. The loading capacity is 75kg.
4. The road is flat and dry.
5. Don't turn on the lights.
6. Don't use the brake system.

Vehicle component diagram

36V/48V electric bicycle



Module power supply

If the product specifications, models doesn't match the instructions diagram when they change, without prior Notice, please understand.

Product feature Introduction

Our electric bicycles are safe, beautiful, environmental friendly, fashion and popular, special for sports, relax and environmental user. This series can be fold, light and convenient for relax and travel. Our company is base on science and technology to service to the society, not just supply the products but also the confidence and the quality guarantee.

Characteristic:

Environmental friendly: Not use oil-fired, no end gas, micro-machine without sound, is the perfect environmental vehicle.

Safe: Appropriate speed, good brake.

Save strength: Full electronic start or electricity assistant start, easily to use and comfortable.

Convenient: The bicycle is light, and can be recharge anytime.

Economy: Consume 1RMB/hundred kilometer, lower than the 10% consume to use oil.

Light: Can be fold when un-used.

Be attention to using:

The battery is the heart of the main energy resources of the bicycle, pay attention to the habit when using the battery.

The battery can not be absent electricity always, should be full power when using every time.

Avoid "0" start, avoid big current discharge, should use the paddle when start.

Avoid deep current discharge, should charge electricity in time when the electricity is lower.

Customer's attention

- Please read the < instruction book> and check the parts are perfect or not before use. Ensure your safe. If have any quality problem, contact to the dealer in time.
- Please observe the highway code; Reduce the speed when snow and raining. Keep a long distance when use brake to ensure your safe.
- Do not fear the snow and rain, but the deep of water can not over the motor or the control parts. Should dry the water after use.
- 36v battery, can not touch the two two-stage of the battery when your hand is wet, otherwise will cause short circuit.
- Can not knock down the parts by yourself. If need to change the parts, should contact the dealer.
- For consider the safe and the avoid the destroy of the bicycle, please do not borrow the bicycle to the one who doesn't know how to operate it.

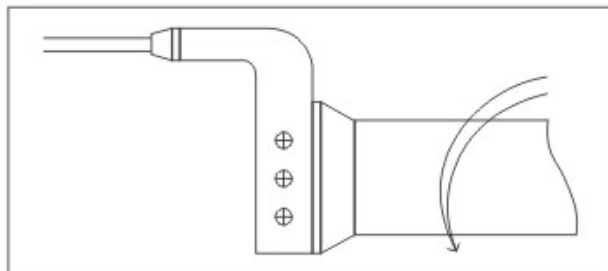
Product characteristic Introduction

Bodywork design features

- 3 d design of bicycle body, The Scientific design in accordance with human body engineering, mechanics of materials, Aesthetic principles. In order to achieve the best effect of riding.
- Light, beauty, foldable, noble and elegant, the best selection of parts materials, more secure for your riding.
- Easy operation, the unique design of the pedal, more easiness for riding.
Good climbing capacity: static climbing capacity greater than 5°
- Ensure your safety in driving, when in brake, the electric power safety system will automatically cut off the power supply.
- This bicycle is in accordance with the international conventional scientific limit design, rated speed (25km/h), rest assured to your ride.

1.Speed governing Grip display the electric quantity or power.

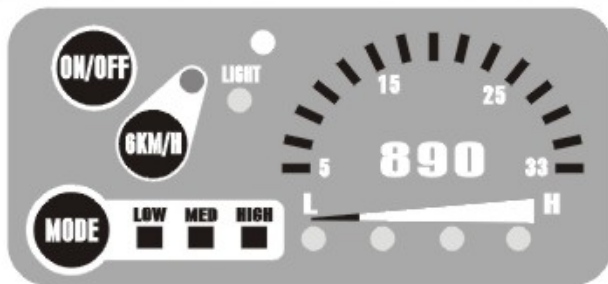
(Don't with senior instrument—Electricity show function)



Grip

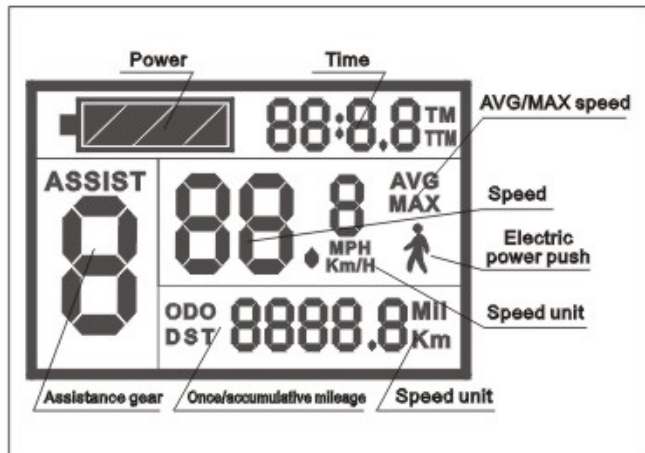
- * Display the battery voltage, surplus electricity or power switch. (subject to actual identify)
- * After turn on the power switch, turn the speed governing grip as above arrowhead is be accelerated, loosen the grip return to zero speed by itself.

2.LED instrument



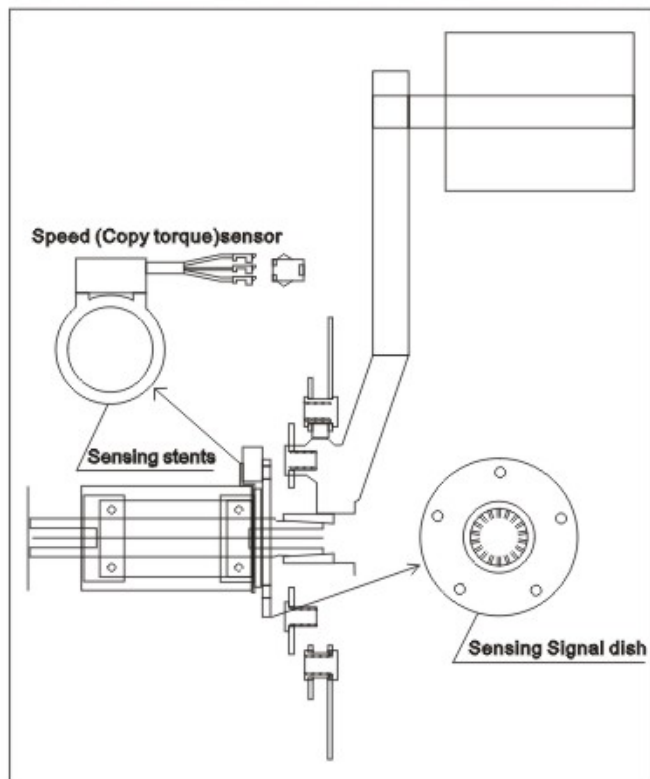
- * switch、power shows、speed function, high、middle、low selection function.
- * Attached detailed instruction for use. (subject to detail instruction)

3.LCD instrument



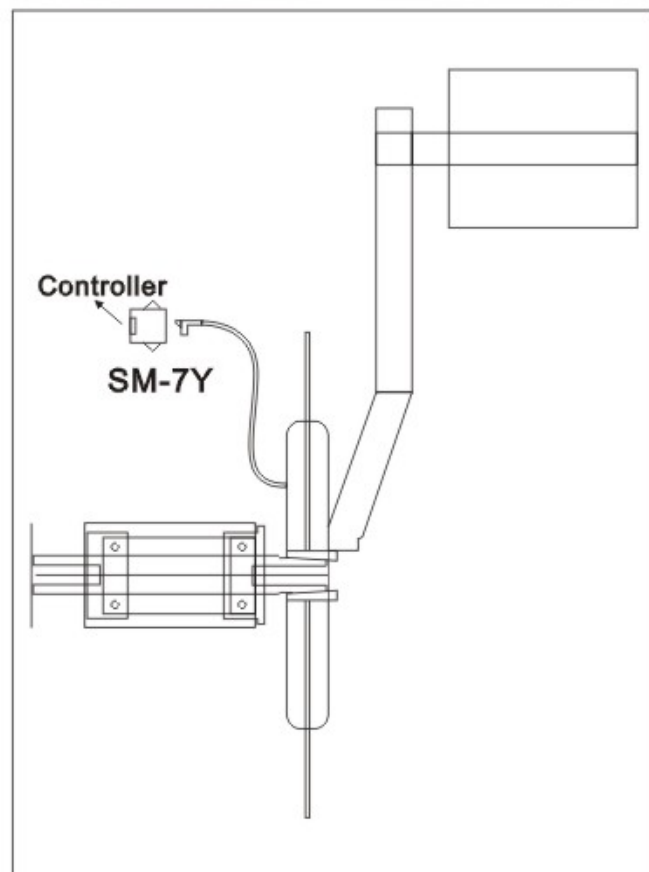
- * switch、power shows、speed function, gear selection、range per charge function.
- * Attached detailed instruction for use, (subject to detail instruction)

4.Speed sensor,(imitation torque type)

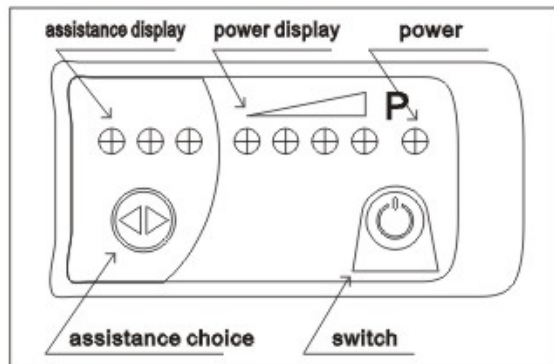


Sensor installation drawing (central axis and crankset between)

5.Torque sensor



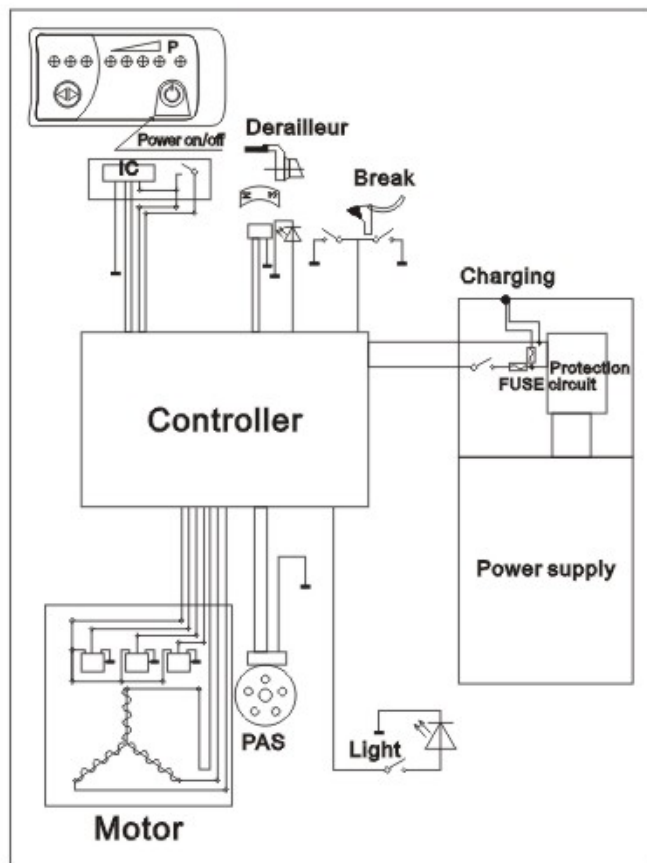
6. Torque sensor supporting instrument



* The following matching for several used electric parts matching

- (1) With power shows derailleur lever, (derailleur function).
 - (2) With speed sensor, (assistance function).
 - (3) With power shows derailleur lever+Speed sensor, (derailleur +assistance function).
 - (4) derailleur lever+LED or LCD instrument, (derailleur+KMH, power etc. display function).
 - (5) Speed sensor+LED or LCD instrument, (assistance function+KMH, power etc. display function).
 - (6) derailleur lever+Speed sensor+LED or LCD instrument, (derailleur+assistance function+KMH, power etc. display function)
 - (7) Torque sensor (special accessory), (assistance function+KMH, power etc. display function)
- (above matching together with battery, motor and controller to be complete circuit of the bicycle)

Notice: the derailleur of Torque sensor just can choose 1*7 or 8, the derailleur of other sensor can choose 1*7& 8 & 9 or 3*7 & 8 & 9.



Electrical Appliance Diagram

* The controller provide difficult function, such as speed control, power cut, current limiting, under-voltage protection, locked-rotor.

General introduction

Range

Range per charge: $\leq 40\text{km}$ (operative mode)

Loading capacity: 75kg

Power require: $\leq 0.5\text{kw/h}$

Product Net Weight: $\leq 40\text{kg}$

Economic Speed: 20km/h

Road Surface	KM						Condition
	0	10	20	30	40	50	
Flat							Pedal assist and power supply, wind speed 3-4 level, temperature 25 degree, carry less than 75kg
Flat							Against wind, wind speed 3-4 level, temperature 25 degree, carry less than 75kg
Slope							slope ≤ 2 degree, wind speed 3-4 level, temperature 25 degree, carry less than 75kg

□ Range per charge with maximum Speed (25km/h)

■ Range per charge with economic Speed (20km/h)

★ Range per charge will be affected by loading weight, road condition, numbers of start/ breaking, weather condition, temperature, tire pressure and charge method.

How to fold the bicycle?

Before you fold the bicycle

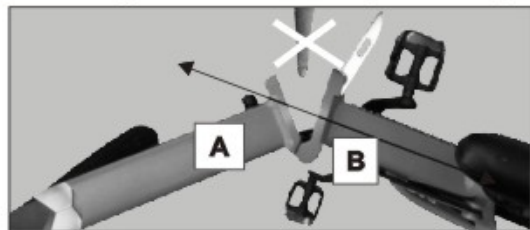


After you fold the bicycle



The steps below show you how to fold/open your folding bicycle, please follow each step carefully.

**Step 1: Make part A & B aligned
(Warning: Please mind your fingers)**



Step 2: Lock the quick release and check if it is correctly adjusted for tightness



- * The black button must be placed in the groove correctly.
- * The round screw provides different tightness.

Step 3: Lock the black button as shown below



Step 4: Adjust and lock your saddle

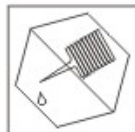
- * Please find out the MAX mark on the tube.
- * Lock your saddle at the best height.



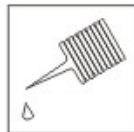
- * Warning: The saddle safe line is mark on the tube. Please DO NOT lock a sit below the MAX mark.

Maintenance and Repair

Maintenance



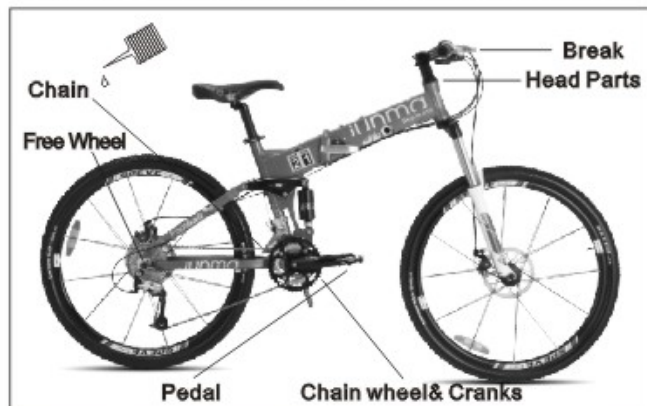
DO NOT wipe with lubricating oil



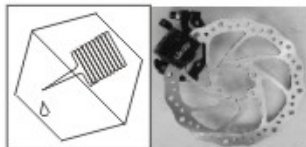
Need lubricating oil

●Lubricating oil should be placed in the following components each one to two months, or as advised.

●For maintenance purpose: We recommend No. 32 machine oil.



●DO NOT wipe with lubricating oil on the following components:



Maintenance and repair

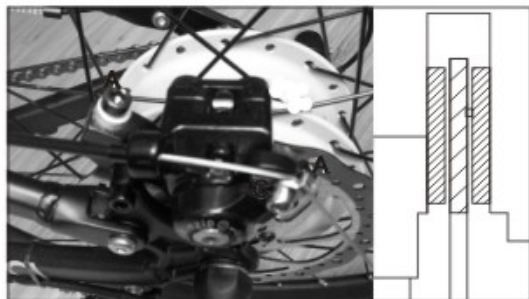
The simple of troubleshooting

Fault phenomenon	Exclusion methods
Turn the power switch, the speed control did not turn and the bicycle has been launched.	Check the speed control whether in reset condition and return is flexible.
Stop and speed control has been turned and the bicycle did not launch.	Check the brake whether in reset condition and still in automatic blackout condition.
The running speed slowly.	Check the detent whether in lubricating, whether fully adjust and the battery full of electricity.
The working indicator does not light when charge and the power connected	Check the power supply whether there is electricity.
The charger lights up the green light when charge and the plug into battery.	Check the charger plug whether insert socket.
The working indicator does not light or suddenly put out when running.	The power output electrode loose, should press the electrode contact.
The power supply shows power on, but the motor does not work.	The motor wiring whether is loose. Check power interface whether become damp. Please professional maintenance
If the above situation is normal, that's other fault. Please send it to our company after-sales service centre or dealer place by professional repair.	

※For the technical transformation, component upgrading, if there are local variation, With the improved shall prevail.

The adjustment methods of each part

First. The front, rear braking performance such as not normal, should be adjust.



- (1). When the braking too weakly or too strong, use the tool to loosen the screw (as picture C point), rap or relax the length of cable to adjust the brake effect.
- (2). (See top-right picture) Adjust the brake should pay attention to brake pad and brake disc whether clearance uniformity, keep vertical and lateral parallel, loosen the screw to adjust (as the picture A point). After it should use force by 6-8N/m to lock.
- (3). In effective state, the brake lever and handlebar should keep a certain distance. (see it by following picture)

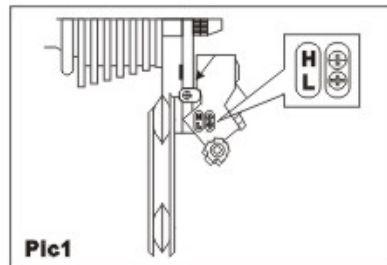


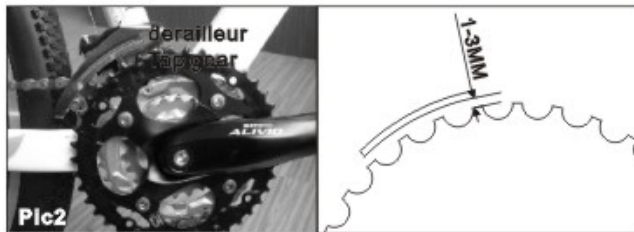
- (4). The brake system relationship our safety, if there are not normal, please send to the professional maintenance.

Second, adjustment of the derailleur



- 1: adjusting the tension of the chain with "A"
- 2: manually quickly adjust the derailleur accuracy with "B"
- 3: "C" is the screw of the variable speed of stay wire
- 4: the function of "H" is adjusting the chain moving to the right when limiting of the top gear, it should adjust the high speed gear vertical to the variable speed gear, see "Pic1"
(left and right side are according to the forward direction of the bicycle) the function of "L" is adjusting the chain moving to the left when limiting of the low gear. It should adjust the high speed gear vertical to the variable speed gear, (left and right side are according to the forward direction of the bicycle)

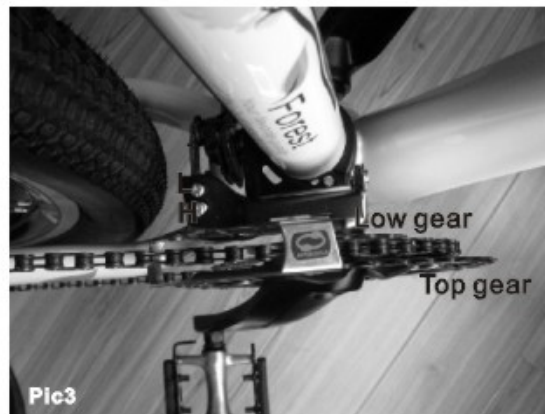




5: the distance between the top gear and the derailleur should be about 3mm(see Pic2).

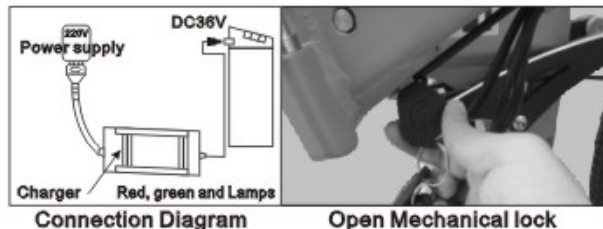
(see Pic3) the function of “H” is adjusting the chain moving to the right when limiting of the top gear,that means limiting the range to the right of derailleur (left and right side are according to the forward direction of the bicycle)
the function of “L” is adjusting the chain moving to the left when limiting of the low gear, that means limiting the range to the left of derailleur (left and right side are according to the forward direction of the bicycle)

6: it should be have some experience when using the derailleur.



Charging Method

First.You can take battery out for charging or do plug in bicycles directly when the batteries charged insufficient. Follow these steps and you can't go wrong:



Charging Method

(1). Take battery out for charging

- Plug output plug of charger (DC36V) into the charging socket of cell box.
- Plug input plug of charger (AC220V) into power socket.

(2). Do plug in directly

- Power off, remove key, avoid charging while discharging.

(3). Charging time

- When put power charger into power socket, its indicator shows a red light which is the correct charge.
- After 3-8 hours of charging, the battery capacity of the direct function of the green-light power, said saturation. Battery recharge 1-2 hours in float mode, take down charger, recharging is completed.
- ★ The charger is installed protective apparatus to reliably protect battery and extend torches service life when the battery is still being charged in a long time (but usually for no more 24 hours).

Charging Method

Second. Notice

- While it is charging, keep out of reach of children.
- Cycling is strictly prohibited in not fully charged, if not, it will affect the battery life.
- Don't use chargers with other brands and other types of battery for charging.
- Do not dismantle charger, which high-voltage circuit.
- Keep off liquid and swarf from charger, beware of falling and striking.
- Don't put anything on it and don't block vent.
- Startup must not be allowed under charging.
- Charger is useable indoors, which is used in dry and drafty environments.
- The best is DC, then AC.
- When charging battery, if some peculiar smell happened, or excess temperature, you should stop it immediately, and send to agency fix it.

About riding

★ In order to ensure that your bicycle safe, I hope you can check before riding.

- Tire pressure is normal?
- Front and rear screws are properly tightened?
- Electricity is sufficient?
- The brake system is adjusted?
- Handlebars, saddles are adjusted?

★ When you buy a new bicycle or a lack of electricity, please fully charge the battery.

★ The beginning of a new battery charge, the long-term placement or fully depleted battery, charging time should be about 8 hours

How to start the bicycle

1. To open the bicycle power, battery lights to indicate power is on.
2. Inward (counterclockwise) to rotate the speed handlebar (right handlebar), the bicycle start, control the rotation angle by small to big, speed is also slow to fast.

Matters need attention when riding on the way

- When the bicycle just started, should be slow to accelerate, to avoid instantaneous acceleration a waste of energy or damage electrical components, auxiliary pedal start is better.
- For maintenance of the battery, motor, when the bicycle started, climbing, please use the pedal power.
- Under the premise of ensuring the safety, when riding on the way should minimize frequent brake, start to save the power.
- Riding should be avoided after the brakes still tighten the speed handlebar. so that the motor to much overload and damage to other parts.
- The bicycle controller with overload protection, when overload will automatically cut off power, overload return to normal, the protection of functional recovery.
- The bicycle's maximum load weight is 100KG, please do not overload the driving.

When bicycles are not normal, as soon as possible to our company's after-sales service centre or dealer, by a professional repair.

About riding

★ Turn off the power switch when you get off the bicycle, to prevent the car suddenly started accidents when people has no intention of rotation speed handlebar.

★ Should avoid stationary with the frequent starting of the bicycle speed control, to ensure that the service life of the batteries, motors and electrical switches.

Maintenance cleaning

- Prohibit the use of high-pressure water flushing, so as to avoid the internal electronic components and circuit for wet and cause accident hidden trouble.
- Please use a neutral detergent with a cloth to gently wipe the paint or plastic dirty surface, Then use the dry cloth to wipe clean.
- Please use the lubricant to wipe the body of metal parts for maintenance.
- Prohibited to add the oil on the front and rear bank, wheel rim and tire.

About battery

Bicycle using lithium batteries as a power supply, battery life and is closely related to the correct way to use:

- Start or uphill pedal power;
- Conditional users charge the battery after ride the bicycle;
- When unused for long periods, charging 2 hours later (half power state) storage, regular charge the battery;
- Accelerate slowly rotating speed handlebar, should not be adjusted too fast;
- Do not use the rebound voltage to ride.

