

**RX20 / 70**



OPERATION AND MAINTENANCE

**ELECTRIC BICYCLE**

USER MANUAL

•MODLE RX20/70

### Attention

- Please carefully check whether all parts are in good condition before. If there is any problem, please contact the dealer in time.
- Abide by the city traffic laws and regulations when using.
- Slow down when encountering rain, snow and passing through slippery roads, increase braking distance when braking, and avoid traveling as much as possible to ensure safety.
- Do not disassemble parts without authorization. If you need to replace them, please purchase standard parts from distributors.
- Wading is prohibited during riding or when riding in rainy days. When accumulated water floods the lowest position of motor hub, it will cause line failure.
- Do not contact the metal point of the battery, otherwise it will produce a large short-circuit current and cause an accident and fire, please pay attention!
- Wear a helmet when riding an electric bicycle, and carry articles according to the law.
- Do not park electric bicycles in the foyer, stairs, walkways and safety exits of buildings.
- Due to the continuous improvement of products in technology, there may be different things between the physical objects and the instructions. Please take the physical objects as the standard.

### Special Tips:

Do not park electric bicycles in the foyer, stairs, walkways and safety exits of buildings.  
Electric bicycles should not be charged and parked in residential buildings. When charging, they should stay away from combustibles and flammable materials and avoid charging for a long time.  
Waste batteries cannot be disassembled without authorization.



### Riding precautions

- Accelerate slowly when starting, and help with pedals when climbing, which can prolong the service life of batteries and motors.
- The bicycle controller is equipped with overload protection function, which will automatically cut off the power supply when overload occurs, and when it returns to normal, the power supply of the electric bicycle will be automatically turned on.
- The maximum load capacity of this bicycle is 180kg (including the weight of riders). Do not overload driving. When driving on complex roads, try to ride and turn on the shock absorption function.

### Parking precautions

- When implementing, the power switch should be turned off to prevent accidents caused by sudden start of the bicycle due to unintentional rotation of the speed regulating handle. When parking, turn off the power supply, lock the battery and remove the key.
- For the sake of your driving safety and keeping your bike in the best condition, please maintain it regularly.

### Battery storage

- Please store the battery at the ambient temperature of 20 ~ 25°C, and do not store the battery in an environment higher than 50°C, otherwise it will lead to irreversible capacity attenuation of the battery.
- If the bicycle is not used for a long time (such as winter, summer or other special circumstances), the battery must be taken out and stored separately, maintained and charged regularly, otherwise the battery may run out and cause irreversible damage.
- The most suitable storage capacity of the battery is 50%, and long-term storage of less than 10% or more than 90% will lead to irreversible capacity attenuation of the battery.

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**MODLE RX20**



**MODLE RX70**



Frame	Aluminum alloy	Brake	Hydraulic brake
Battery weight	4.7KG	Central axis	Sealed central shaft
Variable speed	Shimano 8 speed	Load	About 180Kg
Instrument	Intelligent instrument	Hub	spoked wheel
Controller	Vector controller	Charging time	4-6 hours
Tire size	Rx70 27.5x2.8" / Rx20 26x4.0"	Climbing ability	Approximately 30 °
Body weight	RX70 29KG / RX20 32.6KG		

\* Please note that due to the upgrade of the product, the bicycle you own may be different from the picture and configuration.

\* Product configuration is subject to physical objects.

**Bicycle installation**

Since 95% of the bicycles have been installed, the rest can be installed directly after receiving.



1. As shown in the figure, the front wheels of the bicycle you receive are separated from the bicycle body.



2. Install handlebar riser



3. Insert one end of the quick release lever into the center hole of the front wheel.



4. Install the spring and nut at the other end of the quick release lever.



5. Stick the front fork on the quick release



6. Adjust the center position of the tire so that the positions on both sides are the same.



7. Turn Quick Release to lock the front wheel and secure Quick Release



8. Install the lights and fenders, and connect the light wires (note that the arrows at both ends of the wiring correspond)



9. Install the fender bracket screws

\*The installation method of RX20 and RX70 is the same, the installation pictures are for reference only, please refer to the actual product

**Fork description**

Turn the switch on the left side to switch the front fork damping system, and adjust the damping softness and hardness on the right side.



Switch damping



Adjust softness and hardness

**Pedal instructions**



Install the left and right pedals separately

**Handlebar control unit description**



### Description Of Variable Speed Finger Dial

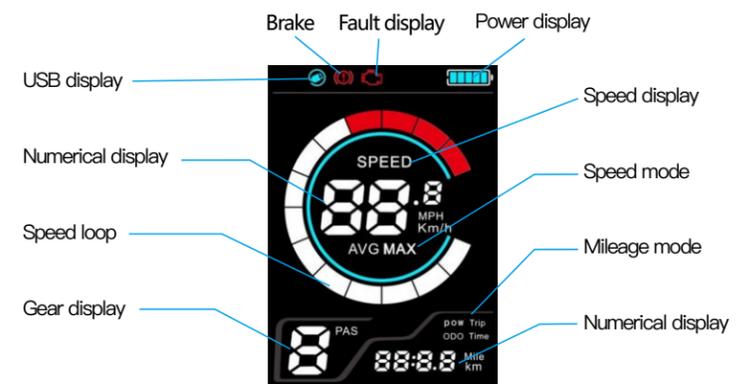


- Eight-level speed change finger dial
- Please use the speed-changing finger dial when pedaling. (Note: Do not use it when it is still)
  - When changing speed, it needs to be adjusted step by step (note: do not directly adjust from level 1 to level 8)

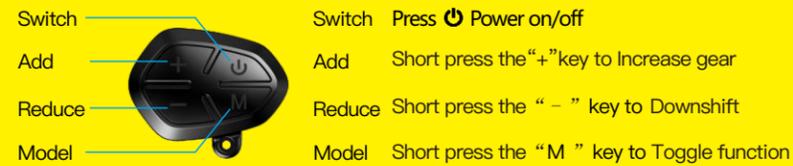
### Effect drawing of bicycle installation



### Instrument Description



- Speed mode:** Average speed (AVG SPEED), maximum speed (MAX SPEED), real-time speed (RT SPEED).
- Speed display:** Display speed value Km/h, kilometers/hour, MPH miles/hour.
- Power indicator:** Provide stable power prompt through optimized algorithm, and the power is not affected by the fluctuation of motor start and stop. If the system supports battery communication, it can display an accurate percentage of power.
- Brake reminder:** This symbol will be displayed when the brake is powered off.
- Gear indication:** Display the current auxiliary gear 0-5, where 0 means neutral gear without assistance, and 1-5 corresponds to auxiliary gear. P is displayed in the 6km/h driving mode.
- Failure prompt:** Display a symbol when a failure is detected.
- Mileage mode:** Divided into single mileage TRIP, accumulated mileage ODO, riding time TIME.
- Mileage display:** Display mileage information or time information according to the set mode.
- USB display:** When the USB charging function is turned on, the interface will display a logo



### Mileage Mode Switch

In the starting state, short can click the display mode, and the following information will be displayed in a loop: running time (Time) → accumulated mileage (ODO) → single mileage (Trip).



### Speed Mode Switch

In the power-on state, short press the M key to switch the speed display mode, and the following information will be displayed cyclically: real-time speed (RT SPEED) → average speed (AVG SPEED) → maximum speed (MAX SPEED).



### Backlight Switch

Long press the "+" key (1 second), the backlight brightness of the instrument will decrease, and the lights will be turned on at the same time (controller support is required). Long press the "+" button again (1 second), the indicator backlight returns to its original brightness.



### Walking Mode

Long press the "-" key (1 second), the electric vehicle enters the assisted walking state, Speed displays real-time speed, gear position displays P, release the "-" key, The electric bicycle exits the walking mode.



### Cruise Control

Twist the handle to accelerate, then long press the "-" key to enter the cruise control mode, the brake will immediately exit the cruise control mode. The meter displays "p" and keeps flashing.

### Usb Function

Long press the "M" button (1 second) to turn on the USB function, and the user can use the USB function. Press the M button again for more than 1 second, the meter will turn off the USB function, and the charging parameter will be DC 5V 500mA.

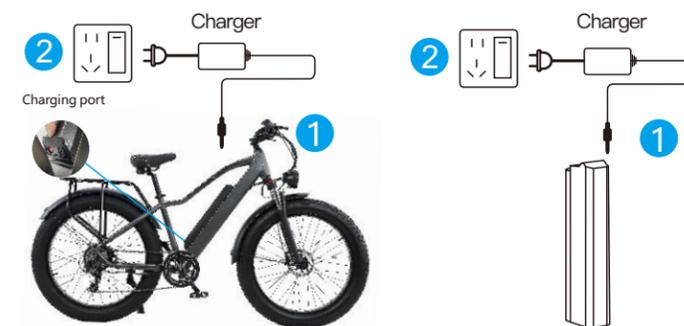


### Data Clear

Press the "+" and "-" keys at the same time to clear the temporary data after 1 second. The cleared data includes the maximum speed, the average speed, the single mileage, and the riding time.

### Correct use of charger

Electric bicycles are equipped with special batteries, which must be charged by the special charger provided by our company. Before charging, the electric bicycle must turn off the power supply. When charging, the output end of the charger is linked to the electric bicycle, and then the other end of the charger is linked to the power supply for charging. The red indicator of the charger lights up, indicating that charging is underway.



### Battery disassembly and assembly



1. Turn off battery power

2. Turn the key counterclockwise

3. Lift the top of the battery up and remove the battery

### Precautions for battery use

- It takes about 6 hours to charge the battery. When the indicator turns green, it indicates that it is fully charged. Turn off the power connected to the charger first, remove the charger, and try to avoid charging for a long time (avoid more than 12 hours)
- When charging, the charger and battery should not be covered with anything to avoid danger caused by overheating. It is recommended to start charging when the battery charge is less than 20%. When parking for a long time, it should be stored at 50% of the power, and must be charged once every other month.
- If you smell peculiar smell during charging, please stop charging immediately and send it to the maintenance office for maintenance.
- When charging, do not touch the battery or charger, and children are strictly forbidden to touch the charger.
- Keep the charger or battery away from flammable materials. Do not charge near babies and children. Do not charge in an unattended state for a long time. For the safety of you and your family, it is recommended not to charge in the early morning.
- Please do not use other brands of charger charging, charger is high-voltage circuit, do not disassemble without authorization.

### Warning

Do not put the battery into the fire. Do not overheat the battery.



Do not connect positive and negative electrodes or touch terminals with metal objects.



Do not cover the charger with objects or place objects on the charger to avoid overheating and fire.



Do not use other brand chargers to charge the battery. Use the specified charger.



Do not subject the charger to shocks, such as dropping. Keep the charger away from water.



Please do not turn the pedal when the battery is installed on the bicycle for charging. Avoid winding the power cord on the pedal or crank, which may cause plug damage, electric shock or fire.



Do not disassemble or modify the battery.



Do not let your skin touch the charger for a long time during charging.



May cause skin burns because the temperature of the charger may become 40C-60C (104F ~140F) during external charging.

### Energy consumption description

- \* The battery should be fully charged before long-distance travel. Rugged road conditions and hilly terrain will consume more energy.
- \* Carrying more weight on an electric bicycle will consume more energy.
- \* When an electric bicycle runs at low temperature, its cruising range will be reduced.
- \* When the battery is turned off, your electric bike will be used as an ordinary bike.

**Pattern description**



The key is opened, the instrument is opened, and the switch is twisted. The electric bicycle is driven by electricity.



The key is turned on, and the instrument is turned on. At this time, the electric auxiliary mode will be started, which is driven by manpower and electric power.



Riding an electric bicycle, the electric bicycle is driven by manpower.

- In pedal assist mode, assist is triggered when the pedal is pressed forward, and is stopped when the pedal is stopped. When you brake, the power assist system will automatically stop, allowing the e-bike to slow down and stop. When the e-bike reaches the maximum speed of the gear you have selected, the power assist will turn itself off.

**Motor description**

When the electric bicycle starts, the input current of the drive motor is large, and the motor will have a certain noise to overcome the resistance to reach the speed. It is the friction sound of the current torque and the magnetic force, which is a normal phenomenon. If the starting current of the electric bicycle is increased, all noises will be more obvious. This is a normal phenomenon and will not affect the use of the electric bicycle. (Note: When the electric bicycle starts, it can be accelerated slowly when accelerating. At this time, the starting current will not be too large, and the noise of the driving wheel will be relatively small. At the same time, it will be beneficial to the battery life).

**After-sales service**

Warranty name	Service term	Warranty coverage (except human factors)
Battery	12 months	The inspected capacity is less than 2/3 of the specified capacity or the inspected quality problem
Motor	12 months	Performance failure
Controller	12 months	
Instrument	12 months	
Charger	180 days	
Frame	12 months	Desoldering, material fracture
Front fork	180 days	Performance failure

**Not covered by warranty**

- The warranty period has expired.
- Commercial rental is not warranted.
- Gifts are not covered by the warranty.
- Damage caused by unauthorized modification, disassembly and replacement of accessories.
- No warranty for parts damage caused by improper use or crash, injury, water inflow or overload use by users.
- Due to the change of the factory batch or upgraded parts of electric bicycles, there is no prior notice.