

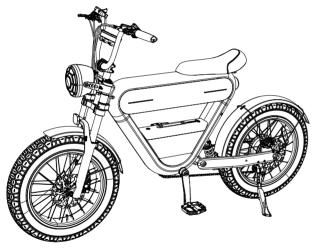
K1 Retro E-Bike

USER MANUAL

Welcome to use!

Thank you for choosing the Rictor retro electric bicycle K1!

To ensure safe and satisfactory operation, please read and understand the contents of this manual carefully, and keep this manual properly for future reference.

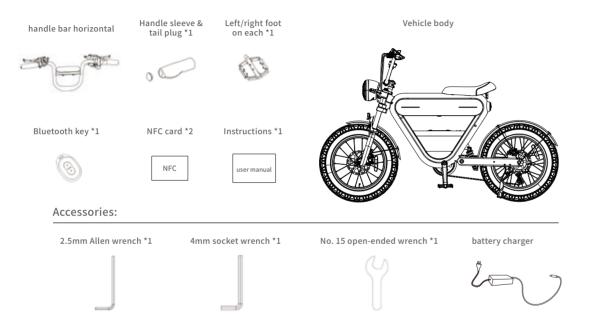


* All pictures in this manual are for reference only. Please refer to the actual product.

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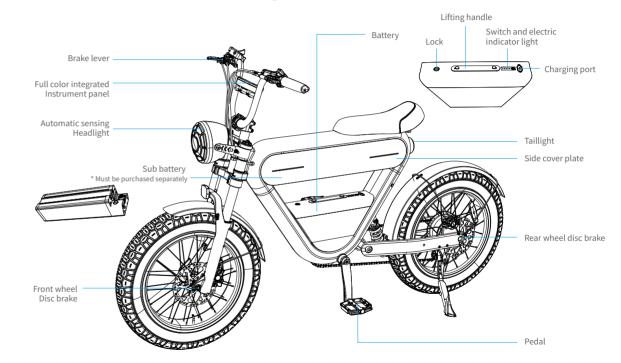
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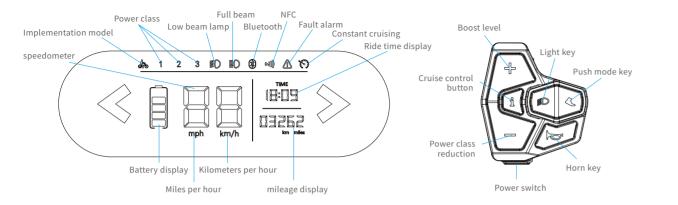
1 Packaging list



Please carefully check whether the items in the packaging box are complete and complete. If there are any problems such as missing or damaged, please call the after-sales service number 400-186-1968 ext. 2 for consultation.

2 Functional schematic diagram





Dashboard & Power Button Usage

Power Switch: Press the power button once to turn on the vehicle, hold for 1 second to turn off (Bluetooth, NFC, IOT are still running), hold for 10 seconds and release to cut off power.

Fault Alarm: When the Alicon lights up, it indicates a vehicle fault. The speedometer displays the fault code. Please contact after-sales service for repair. "i" Button: Long press to turn on or off the cruise control; when the display 🚱 is active, and the speed is greater than 7.5mph, after holding for 6 seconds, a horn "beep" sound will prompt, and enter the cruise control mode, at which point the icon will flash. Release the throttle, and the vehicle maintains the original speed. Press the brake to exit cruise control. Short press to switch between trip and total mileage display. Speedometer: Displays the current driving speed of the vehicle. When a vehicle fault occurs, the speedometer displays the fault code. Assist Level: Press the "+" button, each press increases the assist level from low to high, in sequence $1 \rightarrow 2 \rightarrow 3$: Press the "-" button, each press decreases the assist level from high to low, in sequence $3 \rightarrow 2 \rightarrow 1$. Battery Display: There are 5 bars, each bar represents 20% of the battery charge. Mileage Display: The cumulative mileage of the vehicle's travel, the unit can be selected in the APP: km (kilometers) or miles (miles). **Light Button:** Press the headlight button to cycle through the lights: low beam \rightarrow high beam \rightarrow off.

Ride Time Display: Records the ride time, only the current session is valid.

Push Mode: Press (to enter push mode, press the throttle, the highest speed can reach 6 km/h, press again (for press the "+" or "-" button to exit push mode.

Bluetooth: After the phone's Bluetooth is turned on, the vehicle display is activated once 😭 connected successfully through the APP.

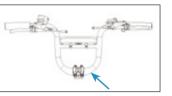
(1) Handlebar Installation and Adjustment

1 Remove the 4 front screws and the front cover of the stem

2.Take out the handlebar assembly with the cable bundle facing forward, and place the bottom of the handlebar in the center of the semi-circular slot of the stem seat.

3. Snap the front cover of the stem onto the handlebars and use an L-shaped hex wrench to tighten the 4 screws. When tightening the screws, you can adjust the front and rear tilt angle of the handlebars according to your riding posture (recommended torque is not less than 18N.m).



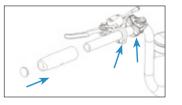


⁽²⁾ Grip, Brake Lever, and Button Component Installation and Adjustment

1. Take out the brake lever and button components, use an L-shaped hex wrench to loosen the screws at the bottom of the brake and button components until the semi-circular ring is open.

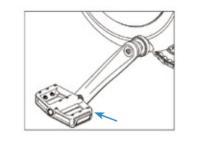
2.As shown in the diagram, snap the brake lever and button components onto the left side of the handlebars and use an L-shaped hex wrench to tighten the screws at the bottom of the brake and button components, adjusting the tilt angle of both according to your riding posture.

3.As shown in the diagram, after the button component and brake lever are assembled, press the grip tightly into place in the direction of the arrow. 4. Take out the grip end plug and press it into the handlebar tube.



3 Pedal Installation

1.Take out the pedals, pay attention to identify the L (left) / R (right) markings on the pedals, use an open-end wrench to tighten and install the pedals. Install the left pedal counterclockwise, and the right pedal clockwise (recommended torque is not less than 18N.m).



(5) Opening and Closing the Vehicle Compartment Cover

1.Press upwards on the middle button at the bottom of the right side cover of the vehicle compartment, and rotate counterclockwise to open the cover until it cannot be turned further. Do not force it to continue turning to avoid damaging the internal parts. This completes the opening of the side cover.

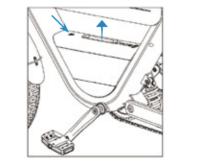
2.Rotate the side cover clockwise downwards until it reaches the bottom position, then press upwards on the middle button at the bottom of the right side cover, push the side cover inward until it cannot be pushed further, release the button, and the side cover is closed and locked.



④ External Battery Removal and Installation

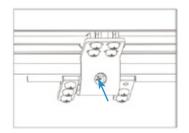
1.Use the battery key to unlock the battery latch; lift the battery upwards by the handle on the top of the battery to remove it.

2.With the keyhole facing the direction of the vehicle's front, align the battery installation track and the connector plug, then press down until the battery is in close contact with the base. Rotate the key to lock the battery, then remove the key. Be careful not to reverse the front and back direction of the battery.



⁽⁶⁾ Adjusting the Damping of the Vehicle Compartment Cover

1.Open the right side cover and locate the three sets of hidden hinges at the top of the vehicle compartment. Use a Phillips screwdriver to adjust the screws in the middle of each hinge. Tightening the screws will increase the damping, while loosening them will decrease the damping. Adjust appropriately based on the looseness or tightness when the side cover is flipped.



4 Bluetooth Key Usage Instructions

1 Power On and Off

Within a 5-meter range, press the icon $\widehat{\mathbb{G}}$ on the key to power on, press the icon $\widehat{\mathbb{G}}$ on the key to power off.

⁽²⁾ Pairing

The key comes pre-paired. If you need to re-pair, you can follow these steps:

In the powered-on state, press the "+" key three times, the "-" key three times, and the key three times to enter pairing mode. At this point, the buzzer will beep, and the dashboard will display "b0", representing that 0 keys have been paired. Press any key on the key to start pairing. The dashboard will display "b1" to represent 1 key has been paired, and "b2" to represent 2 keys have been paired.

Press and hold the "Power" button to power off and exit pairing mode.

Note: Each time you enter pairing mode, it will clear the previously paired keys.

5 NFC Card Usage Instructions

1 Turning on the NFC Switch

Turn on the NFC switch within the Rictor app.

2 Power On and Off

Bring the accompanying NFC card close to the upper left area of the dashboard, and upon hearing a beep, it signifies that the power on (or off) has been successfully activated.

Speed mode After activation, it can be switched to top speed mode

Automatic shut-down

Off time

the vehicle will automatically power off if there is no ~24hour~> operation during this time period

NFC Power on After activation, NFC can be swiped to power on

Power on lock

After shutdown, the power button can be used to turn on

Bluetooth insensitive unlocking

After Bluetooth pairing is completed, the phone will approach and automatically unlock the vehicle

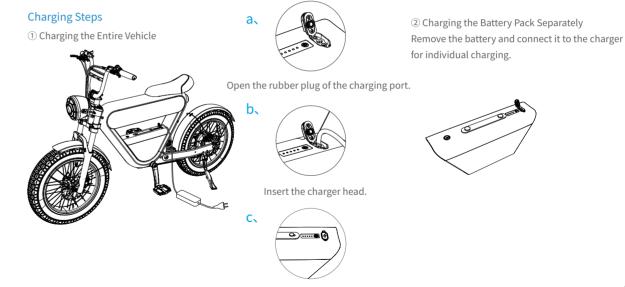
6 Charger Usage

How to Charge

Charger indicator light: Red means charging; Green means charging complete.

Important: You must use the dedicated charger provided by our company for charging. When changing chargers, it should match the battery model, otherwise it may damage the battery and even cause accidents such as combustion.

Important: When charging, the vehicle's output system must be disconnected. Some models can be charged on the vehicle, and some can also be charged by removing the battery box to a suitable location.



7 Safety Precautions

Thank you for choosing the Quick Wheel Retro Electric Bicycle K1. We promise that all components of the K1 are manufactured by the original factory in strict accordance with national standards. To ensure that your beloved vehicle maintains good overall performance, we give you the following special warnings during the use of our company's products:

As a convenient and fast means of transportation, electric bicycles vary in road conditions and user habits and characteristics in different regions. To extend the service life of your beloved vehicle, you must regularly maintain and inspect your vehicle.

If there are quality issues, please contact our dealers or after-sales department. Key original parts such as motors, controllers, chargers, and batteries in the vehicle must not be disassembled and replaced without authorization. If users disassemble or replace them on their own or if the disassembly and maintenance by unauthorized repair units are not executed according to the "Warning" standards, any performance failures or quality issues caused by unauthorized disassembly and maintenance of related parts will not be covered by our normal warranty!

We will wholeheartedly provide you with efficient and high-quality service. If any quality issues arise due to the vehicle's failure to be repaired at an authorized repair unit, the user will bear the corresponding responsibilities.

Danger: Strictly prohibit persons under 16 years old from driving electric bicycles on the road. Do not lend to those who do not know how to operate electric bicycles to avoid injury!

Danger: Do not use chargers of other brands or specifications that do not match this product, nor allow the charger provided by our company to charge other electric bicycles.

Note: Do not discard waste batteries carelessly to avoid environmental pollution; the battery of this product is recycled by our company or agents.

Electric Bicycle Safety Usage

1.Do not park electric bicycles in building foyers, evacuation staircases, corridors, or at safety exits.

2. Do not charge or park electric bicycles inside residential buildings. When charging, keep away from flammable materials, and do not charge for too long, generally not exceeding 8 hours.

3. Strictly prevent electrical components from getting wet. When cleaning the vehicle, avoid water flow impacting the charging port, wiring connectors, and fuse holders, etc. Do not splash water directly into the battery.

4.Do not disassemble old batteries without authorization. When replacing the charger, it should match the battery model.

5. Prohibit users from privately wiring, modifying vehicle structure, and performance: such as changing battery configuration, altering wiring, increasing bulb power, and adding sound systems, etc.

6.Do not touch live parts of the electric bicycle with wet hands or conductive metals, such as the battery box port, battery box connector, and charger power plug, etc.

7.When replacing circuit breakers or fuses, use the specified model and specification. It is strictly forbidden to short-circuit wires without a fuse. The circuit breaker or fuse slot should have good contact; if loose, it can cause the circuit breaker or fuse to heat up and lead to accidents.

8.Do not disassemble electrical components without authorization to prevent liquids and metal particles from seeping into the electrical components.

Pre-ride Inspection and Driving Safety for Electric Bicycles

Please strictly follow traffic rules and drive safely, keeping your speed within a safe limit. Before you ride, please familiarize yourself with the contents of this manual, then find a spacious and flat area for practice to fully master the driving skills and become familiar with the structure of the vehicle. This is the foundation of safe driving.

I. Driving Safety

1.Strictly prohibit persons under 16 years old from riding electric bicycles on the road. Do not lend to those who do not know how to operate an electric bicycle to prevent injury.

2. Electric bicycles should carry passengers or items as required by law.

3.When riding, wear a suitable safety helmet and fasten the chin strap securely.

4.When riding in rainy or snowy weather, the road surface is slippery, which significantly reduces braking performance and increases braking distance. Therefore, be sure to slow down and ensure safe, slow travel. In the event of heavy rain or other extreme adverse weather conditions, to maximize personal safety, it is recommended to avoid riding outdoors.

5.Please strictly follow traffic regulations. Drunk driving, steering with one hand, and allowing the vehicle to travel uncontrolled are all extremely dangerous behaviors that must be avoided.

6.It is recommended to wear clothing that ensures full body movement when riding, choose clothes that are not tight and have reasonable cuff designs that are not easy to turn over. Also, try to wear low-heeled shoes to ensure safety and comfort during the ride.

II. Pre-ride Inspection

1. Connect the power supply and check if all the indicator lights on the dashboard are normal, and check if the power supply is sufficient.

2. Check if the horn is in good condition, operate the switch, and check if the front and rear lights are normal.

3. Check the front and rear brake levers, the brake adjustment should ensure reliable braking and flexible return.

4. Check if the air pressure of the front and rear tires is normal, and check for cracks and abnormalities. Note: Abnormal tire pressure, tire cracking, and abnormal wear are the main causes of poor steering and tire blowouts!

5. Check the tightness of the front and rear wheel screws, and ensure that the side, rear, and foot reflectors are not lost, damaged, or contaminated.

6. Check the tightness of all axles to ensure that the front and rear wheel axles are in a reliable state. If there are any abnormalities, please contact our company's after-sales service or agents for repair in a timely manner!

Correct Driving Method

Before starting, please stand on the left side of the vehicle and lift the main support to check for any abnormalities with the whole vehicle.
Turn on the power switch, at this time the dashboard lights up, indicating that the power supply has been connected.
Sit stably on the vehicle, twist the right-hand throttle grip, and the vehicle will start to accelerate slowly.
Do not brake suddenly or turn sharply, as these actions can cause skidding or overturning.
Note: Braking only the front or rear wheel may cause the vehicle to skid, which is extremely dangerous.

Precautions During the Ride

1. For your safety and the safety of others, please consciously abide by traffic rules.

2.You must wear a safety helmet before riding and take other related safety precautions to maintain a natural posture for easy driving.

3.When the vehicle just starts, it should accelerate slowly to avoid wasting electricity due to excessive starting current. It is better to start with the help of foot pedals.

4.To maintain the battery and motor, try to use pedal power when starting and climbing hills.

5.To ensure safety, try to use economical speed while driving and minimize frequent braking and starting to save electricity.

6.When driving on muddy or uneven roads, try to use human power.

7. In rainy or snowy weather, or when the road surface is wet, you should appropriately increase the braking distance. Ride with concentration, slow down, and be cautious to prevent skidding.

8. This product has an overcurrent protection function. In situations such as steep uphill climbing or strong headwinds, the circuit current may exceed the rated value (i.e., overcurrent). In this case, it is best to use pedal power. Otherwise, it will not only consume electricity quickly, affecting the driving range, but also may burn out the motor and electrical appliances. The shell of the vehicle body and electrical components should not be electrified, and the insulation resistance value should not be less than 2MΩ.

9. The controller has an undervoltage protection function, which will automatically cut off power when the voltage is lower than the undervoltage value to maintain the service life of the battery.

Precautions for Pushing and Parking

1.When you get off and push the vehicle, you should turn off the power switch to prevent accidents caused by accidentally touching the throttle grip while pushing.

2.When parking, support the parking stand on a flat surface and turn off the power.

3.For your driving safety and to keep your vehicle in the best condition, please maintain and clean it regularly.

8 Maintenance and Precautions

Motor Use, Maintenance Methods, and Precautions

★ The electric bicycle motor is a rare earth permanent magnet DC brushless, external rotor hub motor, with no reduction mechanism and carbon brushes. The motor interior is essentially maintenance-free.

★ The motor housing and end cover have been sealed; please do not open them.

★ The motor should be kept clean. No foreign objects, corrosive liquids, or gases should enter the motor. Do not knock on or bake the motor casing to avoid damaging the motor.

Controller Use, Maintenance Methods, and Precautions

★ The controller is an intelligent digital chip controller with functions such as brake cut-off, battery under-voltage protection, overcurrent protection, stepless speed control, and zero-start power control.

★ The controller product has waterproof, shockproof, anti-corrosion, and anti-tampering functions. It uses epoxy or polyurethane encapsulation processes. Please do not disassemble or repair it privately. It should be returned to the manufacturer for repair by professional technicians.

If it is a simple connector looseness, users with hands-on ability can solve it themselves.

Battery Use, Maintenance Methods, and Precautions

★ The life of the electric bicycle battery is very long, but avoid storing it for a long time. When riding an electric bicycle, get into the habit of charging when the battery level is below 20%. It is best to charge the battery full before riding and do not wait until it is depleted before charging. When you get off and push the vehicle, you should turn off the power switch to prevent accidents caused by inadvertently turning the throttle or assist device while pushing.

* When charging the battery on the vehicle, close the key switch. Do not charge the battery upside down, and try to charge it fully at one time.

* If the electric bicycle battery is not used for a long time, charge it once a month. Store the battery after it is fully charged, and avoid storing it in a discharged state.

★ When charging the battery, use the matching charger. Due to the different raw materials and production processes of the battery compared to lithium batteries, the technical requirements for the charger are also different. Therefore, a dedicated charger must be used for charging.

★ Lithium batteries have a longer service life, and users can charge them as they use them, but do not use the ⊡升 voltage to drive to prevent severe discharge. When the battery is out of power, ride with the power off.

★ When charging the electric bicycle lithium battery, stop charging immediately when the charge indicator light shows full.

Warning: Batteries should not be near open flames or high-temperature heat sources. Do not throw batteries into the fire, and avoid exposure to the sun in hot weather!

Installation and Use Precautions for Retroreflective Devices

A) Retroreflective devices must not be missing. If any are found to be missing, contact customer service immediately to install a replacement retroreflective device of the same specification and model, ensuring that the installation position matches that of the original vehicle.

B) The retroreflective devices provided with our company's products are securely mounted on the vehicle. Please do not privately change their position, modify, or disassemble them.

C) Before each use, it is essential to inspect and confirm that the retroreflective devices are functioning correctly, and the surface of the devices should be kept clean.

Whole Vehicle Maintenance and Repair

1.New electric bicycles should be well-adjusted when purchased. If you have any questions, please contact the manufacturer.

2. Generally, the wheel spokes should be adjusted after a certain period of riding (about half a month) to ensure the wheels are aligned properly.

3.Regularly check the air pressure in the tires to maintain a normal operating condition.

4. Main components such as handlebars, stem, front and rear axles, crankshaft, flywheel, chain, and front and rear wheels should be frequently inspected and adjusted to ensure that moving parts are flexible and operate normally. Any loosening of nuts and bolts should be promptly tightened.

5.It is recommended to lubricate the moving and transmitting parts that require lubrication (such as front axle bearings, middle axle bearings, rear axle bearings, front fork crown, and pedal bearings) with No. 3 calcium-based grease every six months; and to lubricate the chain, brake cables, and other transmitting parts with No. 30 oil every two months or so.

Note: When replacing tires, since the front or rear wheels may be equipped with electric hubs, it is recommended to contact the manufacturer.

Warranty Scope

Main Components: Frame, controller assembly, instrument cluster, motor, pedal compartment, handlebar, head tube, rear hub assembly, fork, battery assembly, drum brake, folding stem, bearing race, control harness, with a warranty period of 12 months.

Accessories: Charger, brake lever (bell), gear shifter, brake cables, with a warranty period of 6 months.

Consumables: Rubber plugs, front light, rear light, front/rear fender assembly, decorative shell, decorative cover, foot pad, charging port seat, handlebar grips, front frame cover, plug, instrument cover, footrest assembly, inner tube, outer tire, footrest, with a warranty period of 3 months.

Warranty Description: Functional failures or extensive cosmetic damage caused by non-human factors are covered (self-modification and human-caused damages are not warranted).

9 RICTOR App

Scan the QR code below with your mobile phone or search for Rictor in the app store, download and install.





Press the power button on the left handle to power on.

Step 2 **๎**₩)) Turn on the Bluetooth function of your phone.

 $\overline{\mathbf{Z}}$ Step 3 Open the Rictor App. For first-time user, please follow the App instructions to register/log in your account

Step 6

Enter the homepage of App to operate the vehicle.

Step 4 + Open the App and click "connect device" on the homepage



 \bigcirc The App will search for nearby available K1 and select the vehicle with the device name "K1" to connect. After successful connection, the bluetooth icon in the App will light up.

10 Model parameter table

Product model	K1			
Maximum speed	28mph			
Maximum endurance	Pure electricity :35+(mile)			
Maximum endurance	Power :70+(mile)			
Climbing grade(%)	25			
Voltage (V)	48			
Battery Capacity (Ah)	15			
Rated power (W)	750			
Charging current	3			
Peak torque (Nm)	85			
Maximum load (kg)	120			
immobilize	Hydraulic disc brake			
Tyre size	20"x4.0			
Net weight (kg)	43			
Size (mm)	1807x662x1119			
Power class	3			
Speed change grade	7			
Class of protection	IP65			
Applicable age	16+			
Operating temperature (°C)	-10-45			
Storage temperature (°C)	-20-60			
Charging temperature (°C)	0~45			

* The maximum battery life is pure electric life: 25kph, 21°C asphalt road uniform speed.

11 Contact Us

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Manufacturer Yancheng Kuailun Intelligent Technology Co., Ltd Address: Building 1, Intelligent Terminal Industrial Park, EastGuanjiang Road South, Yinhai Road, Xiangshui County EconomicDevelopment Zone, Yancheng, China