



Electric Cargo Bike User Manual

Model No.:
KingSong Cove (KS-M9)



Works with
Apple Find My



Works with Android
Find Hub





SMART LIFE, REACHING THE FUTURE

Dear Valued Customer,

On behalf of KingSong Technology Co., Ltd. and as the CEO, I extend my warmest thanks to you for choosing our product. Your decision to choose us signifies a mutual commitment to quality, innovation, and exceptional customer service.

Our primary goal is to provide our customers with products that not only meet but exceed their expectations. We are confident that the product you've selected, developed by our talented team of engineers and designers, will provide you with an unmatched user experience.

As you set out on your journey with this device, remember that your purchase is not the end of our relationship, but the beginning. We stand by our commitment to your satisfaction and are ready to assist you in any way we can.

Once again, thank you for your trust in our products and for becoming a part of the KingSong family. We hope you'll thoroughly enjoy your new ride and we're excited to embark on this journey together.

Best regards,

A handwritten signature in black ink, appearing to be 'W. King', with a long, sweeping horizontal line extending to the right.

CEO, KingSong

CAUTIONS

Congratulations on your new E-cargo bike! Nothing makes us happier than knowing you will experience the joy and excitement that come with owning an e-cargo bike. the joy and excitement of the new life one can get as the owner of an E-cargo bike.

To get you started, we have written this manual which you must read carefully. It is especially important that you read all safety warnings before using your cargo bike.

Before you master the riding skills, you need to practice., you need to do practice. You will be responsible for any injuries or damage caused by a rider's inexperience or failure to follow the instructions in this manual.

Please understand that you can reduce the risk by following all the instructions or warnings in this manual, but you cannot eliminate all the risks.

Please follow local traffic laws and restrictions when riding in public areas.

Always wear a properly fitted helmet when riding, as well as other necessary protective gear, such as elbow pads and knee pads.

Please slow down when crossing intersections, riding through crowds, making turns, going uphill or downhill, passing schools, or riding in any area where high speed may harm people.

Please do not allow kids of age below 12 to use the cargo bike on public area. Riders under the age of 18 years old should ride under adult supervision.

Do not ride in adverse conditions, such as rain, snow, grass, mud, fog, or smoke, to avoid malfunctions that may cause personal injury or property damage.

Do not disassemble the cargo bike or make any modifications without authorization from a professional distributor

Do not allow others to ride your cargo bike unless they have carefully read and followed the instructions in this manual.

We wish you thousands of happy kilometers on your new cargo bike and hope you will be very satisfied with the purchase.

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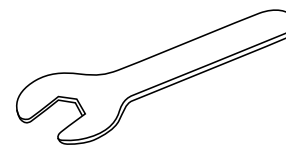
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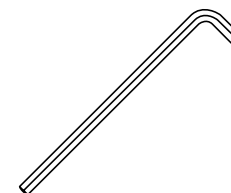
1. Packaging Contents



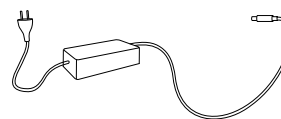
Accessories



Open-end Wrench*2
(15#)



Hex Wrench*7
(M2*1 + M2.5*1 + M4*1 + M5*2 + M6*1 + M8*1)



Charging Adapter*1



User Manual*1



NFC Card*2

2. Product Overview



Handlebar Components



- 01. Front wheel
- 02. Headlight
- 03. Cargo basket
- 04. Folding mechanism
- 05. Handlebars
- 06. Seatpost
- 07. Saddle
- 08. Rear seat
- 09. Disc brake pads
- 10. Disc Brakes

- 11. Mudguards
- 12. Kickstand
- 13. Pedals
- 14. Disc Brakes
- 15. RGB Lights
- 16. Taillights
- 17. Main Battery
- 18. Motor
- 19. Flywheel
- 20. Deraillieur

- 21. Chainring
- 22. Auxiliary Battery
- 23. Steering Lever
- 24. Handlebar
- 25. Left Brake Lever
- 26. Throttle
- 27. Combination keys
- 28. Display
- 29. Shifters
- 30. Right Brake Lever

Combination Keys



- 01. "+" Mode Switch Button
- 02. Headlight on/off button
- 03. Mode switch "-" button
- 04. Power on/off button
- 05. Turn signal on/off button
- 06. Cargo basket on/off button
- 07. Horn button

Specifications

Product Model	King Song Cove (KS-M9
Tire Size	16-inch pneumatic tire
Max. Speed	25km/h (factory default maximum speed is 25km/h)
Max. Mileage (Assisted mode)	~100km (Main battery) / ~75km (Auxiliary battery) (Test conditions: 65kg rider, speed 20km/h, ambient temperature 25-30°C, flat asphalt road)
Max. Mileage (Electric mode)	~80km (Main battery) / ~55km (Auxiliary battery) (Test conditions: 65kg rider, speed 20km/h, ambient temperature 25-30°C, flat asphalt road)
Battery Capacity	48V, 20Ah (main battery) / 48V, 15Ah (auxiliary battery)
Motor Power	500W
Gradeability	15°/27%
Electronic Gear	5 gears
Mechanical Gear	9 gears
Max. Load	120kg(Max. frame load) / 35kg(Max. basket load)
Charger Specifications	Input AC 100-240V; Output DC 54.6V 4.5A
Charging Time	4.5h (Main Battery) / 3.5h (Auxiliary Battery)
Working Conditions	Temperature: -10°C~50°C; Relative humidity: ≤85%; Atmospheric pressure: 86 ~ 106Kpa
Storage Conditions	Temperature: -20°C to 60°C; Relative humidity: ≤85%; Atmospheric pressure: 86 ~ 106Kpa



Headlight	Yes
Taillight	Yes
RGB Light	Yes
Applicable age	16-50 years old
Applicable height	150-200cm
Parking Method	Kickstand
Alert Method	electric horn
Braking system	Front and rear hydraulic brakes
Product Size (unfolded)	212*66*113cm
Product Size (folded)	212*31*88cm
N.W.	38.2kg(Main battery) / 41.8kg(Main battery+Auxiliary battery)
Packing List	Cargo Bike*1, User manual*1, Charger*1, NFC Card*2, Open-end wrench #15*2, Hex wrench M2*1 + M2.5*1 + M4*1 + M5*2 + M6*1 + M8*1

3. Product Features

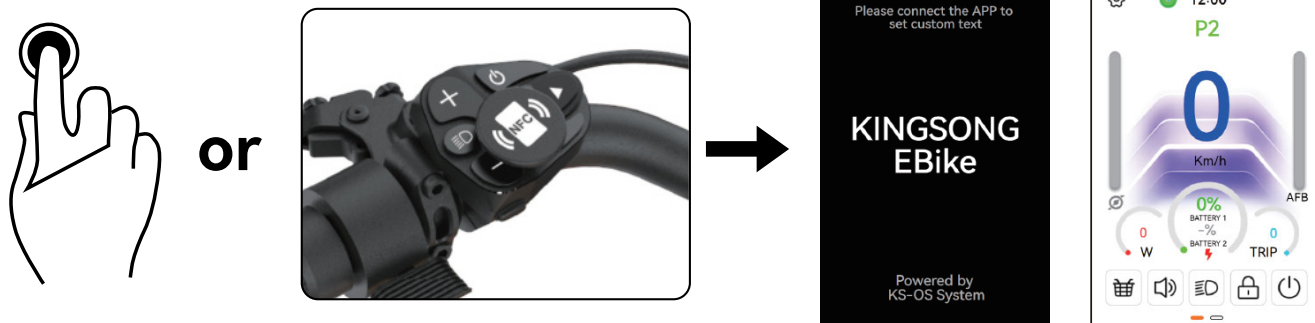
- Utilizes a high-quality all-aluminum alloy frame, combining lightweight design with high strength for a more stable and reliable ride.
- Equipped with a self-developed integrated potted aluminum shell controller, providing enhanced protection and more stable operation.



- Equipped with a self-developed smart instrument panel, featuring a high-definition LCD display and touch operation, a self-developed OS system, Bluetooth connectivity for mobile apps, and Apple Find My and Google's Find Hub search functions, making riding safer.
- Utilizes a Bluetooth 5.1 high-speed data module for real-time connectivity with a mobile app, allowing you to view vehicle operating data and customize parameters anytime, anywhere.
- Built-in buzzer provides precise system status updates and timely fault alarms in case of abnormalities.
- Integrated 3W high-brightness front headlight and horn, along with two RGB taillights for enhanced visibility.
- Supports one-button power on/off via NFC card swipe, automatically locking the bike after power-off for convenience and safety.
- Real-time monitoring of controller, battery, and motor temperatures, with triple temperature control protection for a more stable ride.
- Equipped with a powerful 500W motor, delivering ample torque for effortless starts and hill climbs.
- Features a dual-battery removable design, with independent charging support for the battery pack; a built-in intelligent BMS battery management system with communication capabilities allows for real-time monitoring of detailed battery status.
- The central axis integrates a torque sensor, which senses the rider's effort in real time and intelligently adjusts the amount of assist, making riding more effortless and natural.
- The rear features two RGB light strips with a total of 86 LEDs, supporting brake indication, turn signals, and various dynamic flowing light effects. Colors and modes are customizable.
- The product incorporates two high-torque electric actuators for automatic opening and closing of the storage basket, enhancing convenience.
- The rear motor features a dual electromechanical lock, automatically locking the vehicle upon power-off, creating a highly efficient anti-theft system.
- Utilizing an industry-first 12MOS integrated drive solution, the module incorporates high-precision real-time temperature monitoring, resulting in higher integration, more stable operation, and enhanced safety.

4. Instruments and combination buttons

- Power On: Press and hold the power button for 3 seconds or place the NFC card on the combination button. The screen lights up and displays the boot screen, then enters the main interface.



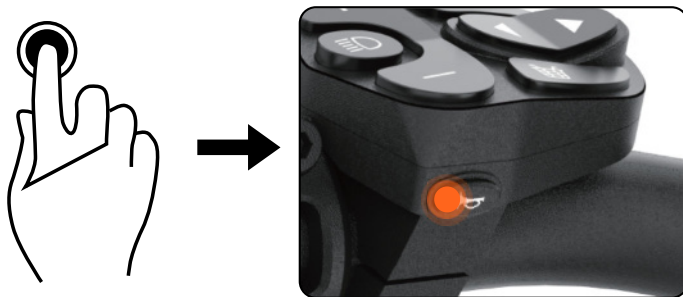
- Power Off: Press and hold the power button for 3 seconds or place the NFC card on the combination button panel. The screen goes black and the device powers off.



- Headlights on/off: Briefly press the headlight button to turn on the headlights; briefly press the headlight button again to turn off the headlights.



- Horn: Press and hold the horn button to sound the horn.



- Gear shifting: Briefly press the "+" or "-" button to shift gears.



- Turn signal on/off: Briefly press the left or right turn signal button to turn on the turn signal; briefly press the button again to turn off the turn signal.

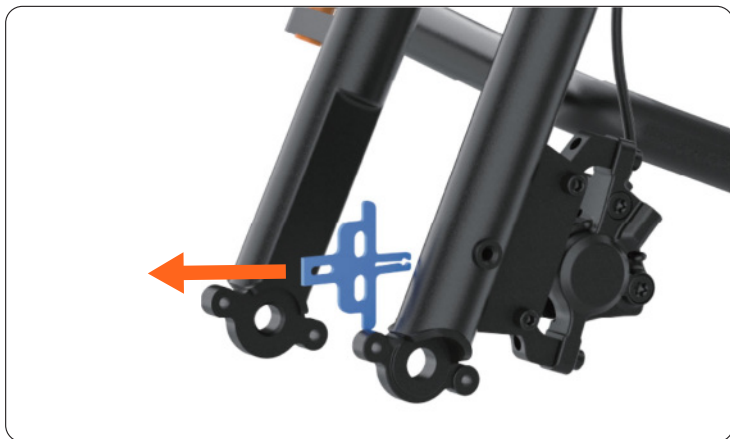


- Cargo basket open/close: Briefly press the cargo basket button to automatically open the cargo basket. During the opening process, briefly pressing the cargo basket button will stop the opening. When the cargo basket is fully open, press and hold the cargo basket button to automatically close the cargo basket. During the closing process, briefly pressing the cargo basket button will stop the closing.



5. Assembly and Setup

1. Remove the piston stop block from the front brake.



2. Install the front wheel and tighten the barrel axle using an Allen wrench.



3. Unfold the handlebar stem and secure it.



4. Remove the handlebar clamp fixing screws, install the handlebar assembly, and tighten the fixing screws.



5. Tighten the three fixing screws at the bottom of the basket, paying attention to the installation direction of the basket.



6. Tighten the fixing screws at the front and rear of the steering rod.



7. Install the pedals, paying attention to the distinction between left and right pedals; "L" represents the left pedal and "R" represents the right pedal.



01. Each pedal is marked with "L" or "R" to indicate whether it should be installed on the left or right side.



02. Ensure that the threads of each pedal are fully inserted into the crank arm.

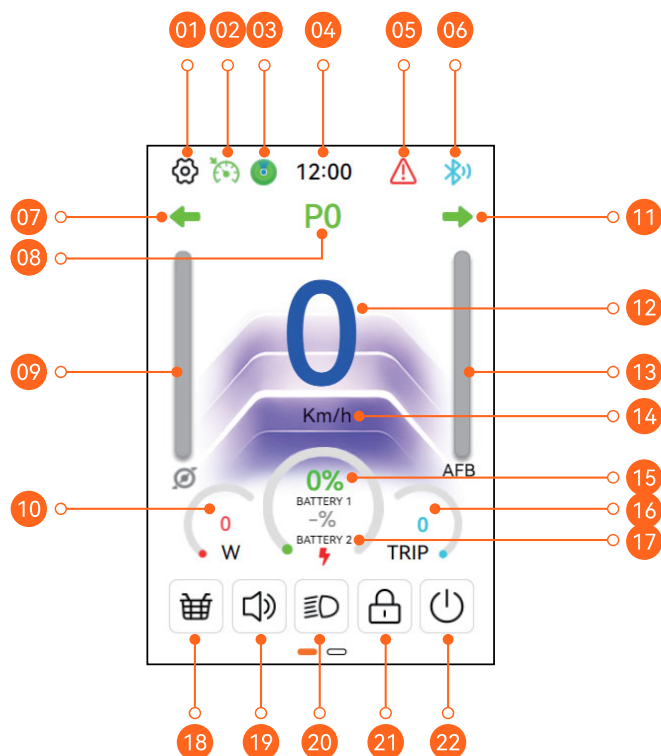


03. Tighten the pedals manually with a wrench, turning the right pedal clockwise and the left pedal counterclockwise.



6. Screen Operation Guide

- The vehicle's central control screen supports touch operation, allowing you to easily adjust various vehicle functions.
- For driving safety reasons, while riding, only the electric horn and headlights can be operated via the screen. Other functions should only be used when the vehicle is stationary and at zero speed.



01. Settings

02. Cruise Control

03. Find My

04. System Time

05. Error

06. Bluetooth Connection

07. Left Turn Signal

08. Gear Selection

09. Assistance

10. Motor Power

11. Right Turn Signal

12. Real-time Speed

13. Motor Torque

14. Speed Unit

15. Main Battery Power

16. Single Mileage

17. Auxiliary Battery Power

18. Cargo Basket

19. Electric Horn

20. Headlights

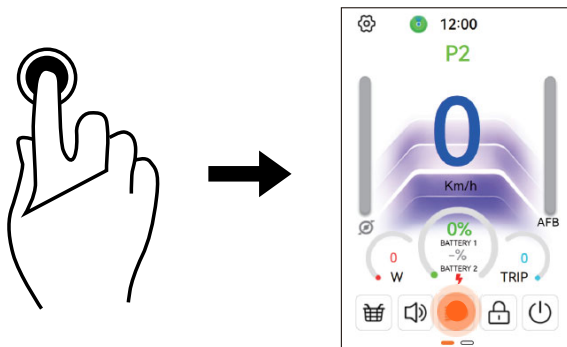
21. Locked

22. Turn off

- Swipe left on the screen to access the vehicle data interface and view the vehicle's real-time operating status.



- Tap the "Cargo Basket," "Horn," or other function icons to quickly perform the corresponding operations.



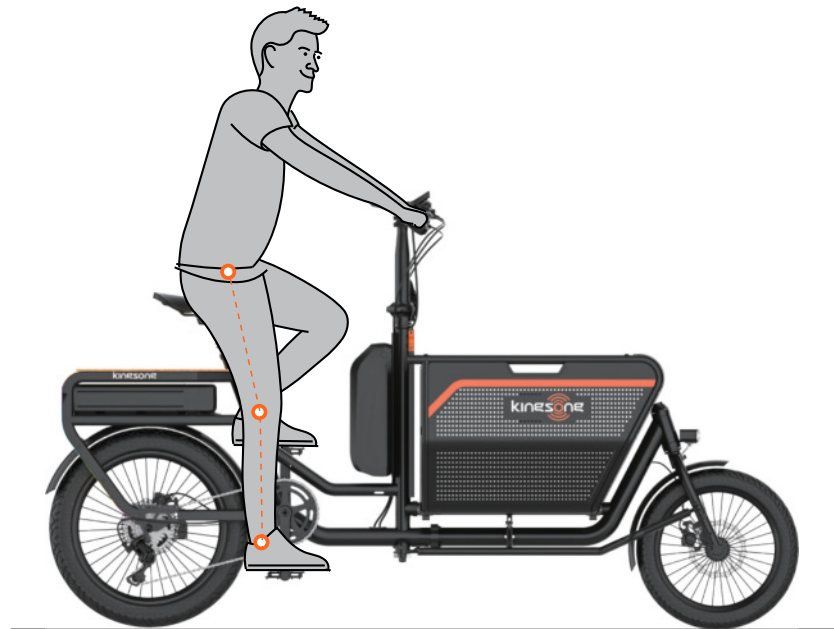
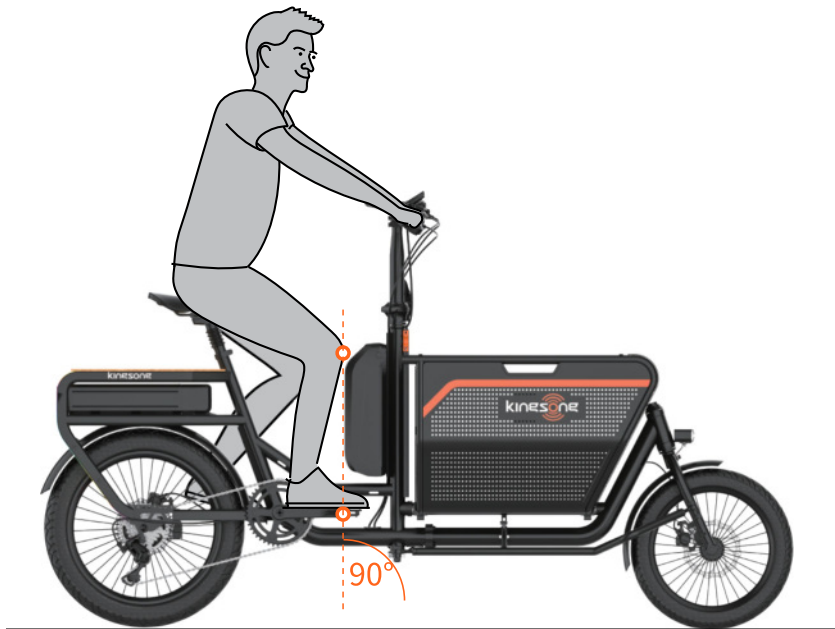
- Tap the settings icon to enter the vehicle settings interface, where you can adjust and set various vehicle parameters.



7. Adjusting Seat Height, Position, and Angle

Adjust Seat Height

1. Sit on the seat with both hands gripping the handlebars (you can use the kickstand on a cargo bike for easier positioning).
2. Position the crank arms vertically. Place your heels on the pedals below, with your legs fully extended. Adjust the seat height to achieve this position.
3. This ensures that when you pedal normally (with the front of your foot on the pedal), even at the lowest pedal position, your knees will remain slightly bent.



Adjust the seat position and angle

1. Use an Allen wrench to loosen the bolts under the seat until the adjustment mechanism can be moved.



2. Adjust the seat angle so that the top surface is horizontal or tilted within 0 to -3 degrees.



3. Slide the seat forward/backward to the desired position.

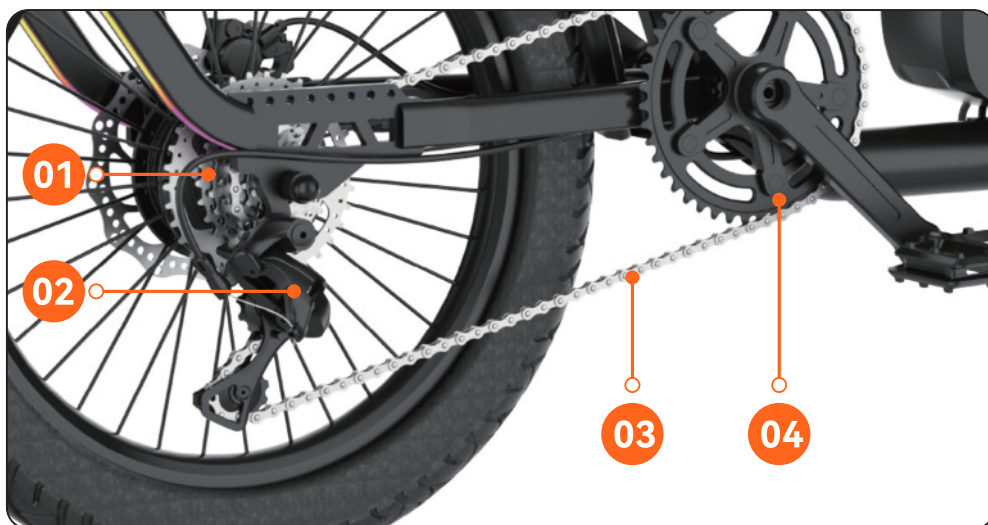


4. Retighten the bolts below.



8. Transmission System

- This product features a 1x9 speed derailleur drivetrain.
- Power is transmitted via the chain (from the chainring to various-sized freewheels mounted on the rear wheel).
- The derailleur is the mechanism that moves the chain between the sprockets when shifting gears.
- Shift to a higher gear. Shifting can only be done while pedaling. This means it's best to shift to a lower gear before stopping. This will make restarting easier.
- The chain is exposed to various environments and will become dirty over time. A dirty chain can cause poor shifting and accelerate wear. Please clean and lubricate the chain and freewheel regularly.
- Keep your body and clothing away from the chain while riding. Prevent them from getting stuck between the chain and freewheel during riding, which could cause falls or other injuries!



01. Freewheel 02. Rear derailleur 03. Chain 04. Crankset 05. Upshift shifter
06. Downshift shifter

9. Kingsong APP

- Android APP: Download the KingSong app from Google Play.
- IOS APP: Download the KingSong app from the Apple App Store.
- Mini program: Scan on WeChat and use the mini program.



Android



IOS



Wechat Mini Program



Warning: Please grant the app the required permissions to ensure it can run properly on your mobile device.

Turn on Bluetooth and location services (or GPS). Tap “Search,” then tap the corresponding model, KS-M8/KS-M9, in the device

10. Find My

Apple Find My

Quick instructions

Turn on the device

Squeeze the brake lever, click the power button 3 times to turn on the Find My device.

Pair the device

- Open the Find My app. Hold the device close to your iPhone, tap the Items tab, tap + and then Add Other Item.
- Tap Connect.
- Type a name for your device, select an emoji.
- Tap Agree to acknowledge that this item will be linked to your Apple ID.
- Tap Finish.

Enable Lost Mode

- Open the Find My app, tap the Items tab, then tap your item.
- Under Lost Mode, tap Enable.

Read the instructions, tap Continue and enter a phone number or email address. Confirm the information, customize the lost message, and tap Activate to complete the setup

Remove the device

- Open the Find My app, tap the Items tab, then tap your item. Tap Remove Item and then tap Remove to complete the operation.

Note: After removing the device in the app, it will not shut down and will enter pairing mode.

Main Functions

Locate your item

If your missing item isn't nearby, the Find My app can still help you track it down using the Find My network – hundreds of millions of iPhone, iPad, and Mac devices around the world. Nearby devices securely send the location of your missing device to iCloud, then you can see where it is in the Find My app. It's all anonymous and encrypted to protect everyone's privacy.

Play Sound

- Open the Find My app, tap the Items tab, then tap your item.
- Click Play Sound, and the device will beep, so you can find the item easily.

Instructions for device power button

Device operation

- **Turn on the device:** Squeeze the brake lever, click the power button 3 times to turn on the Find My device.
- **Turn off the device:** Squeeze the brake lever, and click the power button 4 times to turn off the Find My device.
- **Learn more:** Squeeze the brake lever, and click the power button 5 times to enter “Learn More” mode.
- **Reset the device:** Squeeze the brake lever, click the power button 6 times to reset the Find My device.
- **Stop playing sound:** Squeeze the brake lever, click the power button 7 times to stop sound playback.

The device enters the pairing state again

After removing the device from the app, the device will beep, will not shut down, and will be in pairing mode. If it is not paired within 10 minutes, the device will leave the pairing state. If you need to pair devices at this point, Squeeze the brake lever, click the device button 6 times and the device beeps. At this point, the device enters pairing mode and can be paired with the app again.

Locate & Notifications

Find an Item When It Is Nearby:

- Open Find My app and select the "Items" tab or open the Find Items app on your Apple Watch.
- Tap on your item from the list.
- Tap "Play Sound" to make your item beep.
- Tap "Stop Sound" to stop the beeps once you find it.

Find item's Location:

- Open Find My app and select the "Items" tab or open the Find Items app on your Apple Watch.
- Tap on your item from the list.
- Your item's location will appear on the map with a timestamp indicating when the item was located.
- To navigate to the item's location, tap "Directions" to open Apple Maps.

Enabling "Notify When Left Behind":

- Open Find My app and select the "Items" tab or open the Find Items app on your Apple Watch.
- Tap on your item from the list.
- Under "Notifications" enable the "Notify When Left Behind" toggle.
- You will receive a notification when you leave your item behind and it's no longer in range of your device.

Enabling "Notify When Found":

- Under "Notifications", enable the "Notify When Found" toggle.
- When your item is seen by another Find My network device, you will receive a notification of its location.

Note : "Notify When Found" can only be activated when your item is out of range.

Important tips: When pairing a device with the Find My app, the phone will link to the Apple server. Pairing may fail because of network problems. The following actions are recommended:

1. Change the phone's network, such as switching between WiFi and network;



2. Restore the device to factory settings, Squeeze the brake lever, Click the power button 6 times to reset the Find My device.

3. Pair with the Find My app.

Legal notice

To use the Apple Find My app to locate this item, the latest version of iOS, iPadOS, or macOS is recommended. The Find Items app on Apple Watch requires the latest version of watchOS.

Use of the Works with Apple badge means that a product has been designed to work specifically with the technology identified in the badge and has been certified by the product manufacturer to meet Apple Find My network product specifications and requirements. Apple is not responsible for the operation of this device or use of this product or its compliance with safety and regulatory standards.

Apple, Apple Find My, Apple Watch, Find My, iPhone, iPad, iPadOS, Mac, macOS and watchOS are trademarks of Apple Inc. IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.

FAQ:

When can the device be located?

When an item is separated from its owner for a period of time, it can be found by other Apple devices that are part of the Find My network, and the owner can start to get the location of the device.

How is the device designed to discourage unwanted tracking?

If any Find My network accessory separated from its owner is seen moving with you over time, you'll be notified in one of two ways:

1. If you have an iPhone or iPad, Find My will send notifications to your Apple device.. This feature is available on iOS or iPadOS 14.5 or later.
2. If you don't have an iOS device or a smartphone, a Find My network accessory that isn't with its owner for a period of time will emit a sound when it's moved.

These features were created specially to discourage people from trying to track you without your knowledge.



How is my privacy protected?

Only you can see where your item is. Your location data and history are never stored on the item itself. Devices that relay the location of your item also stay anonymous, and that location data is encrypted every step of the way.

What is the Find My network? And how does it work?

The Apple Find My network provides an easy, secure way to locate compatible personal items on a map using the Find My app on your iPhone, iPad, Mac, or the Find Items app on Apple Watch. Simply pair your compatible product with the Apple Find My app to view it right alongside your Apple devices.

If your item ever goes missing, you can put it in Lost Mode to display a message and contact information to anyone who might find it. The Find My network is encrypted and anonymous, so no one else, not even Apple or the manufacturer of your personal item, can view its location

Google's Find Hub

Before You Start

This item only supports the "Find Hub" app. Please make sure to download and install this app on Google Play before use.

The device is compatible only with Android devices running Android 9 and above.

This item does not support Huawei devices.

Once the item is paired with a device, it will be locked and cannot be paired with another device.

Button and Sound instructions

- **Turn on the device:** Squeeze the brake lever, click the power button 3 times to turn on item.
- **Turn off the device:** Squeeze the brake lever, and click the power button 4 times to turn off the item.
- **Learn more:** Squeeze the brake lever, click the power button 5 times to enter "learn more" mode.
- **Reset the device:** Squeeze the brake lever, click the power button 6 times to reset item.



- **Stop playing sound:** Squeeze the brake lever, click the power button 7 times to stop sound playback.

Reset:

1: Open the "Find Hub" app, select your item, tap the Settings button, then tap "Remove from Find Hub" and confirm.

2: After removing it, squeeze the brake lever, click the power button 6 times, the item will be reset.

Note: Please power on the item and remove the device from the "Find Hub" app before resetting.

Instruction

Add Item

1. Make sure your phone's Bluetooth and network are turned on.

2. Squeeze the brake lever, click the power button 3 times to turn on the item.

3. Bring item close to your Android device and wait for the pop-up to show item. (Remark: If no pop-up appears, please restart your phone and try again.).

4. Tap "Connect", read and accept the prompts to complete the pairing.

5. In the "Find Hub" app, select the item to customize the device name and category.

Find Nearby

In the "Find Hub" app, select your item and tap "Play Sound" to locate your item. Once found, tap Stop Sound to silence the device.

Find Far Away

In the "Find Hub" app, select your item, tap the device to view its location. To navigate to the location, tap "Get Directions" to open map navigation.



Enable Lost Mode

In the "Find Hub" app, select your item and tap "Mark as Lost".

Add your contact information, and you will be notified if the Find Hub network locates it.

Item Location Sharing

In the "Find Hub" app, select your item, then tap "Share Device".

Connect to another phone

After completing the reset process, connect to another Android phone.

Manual Setup Instructions (If You Miss the Pop-up)

1. Open Settings.
2. Go to "Google".
3. Click on "All Services".
4. In the "Connected Devices & Sharing" menu, select "Devices"
5. Enable "Scan for Nearby Devices".
6. The item will appear in the list of available nearby devices.
7. Click on it and follow the on-screen instructions to complete the connection.

Legal Notice

Find Hub helps you connect to what matters in a single, secure place. Find your lost phone or other important belongings quickly. You can also use Find Hub for seamless location sharing with friends & family for peace of mind.

Find Hub network requires location services and Bluetooth to be turned on. Requires cell service or internet connection. Works on Android 9 and above on select devices [devices or phones] and in certain countries for age-eligible users.

Google, Android, Google Play and Find Hub are trademarks of Google LLC.



11. Error Code

Display	Defect Description	Solutions
E0	Communication error	1. Check whether the display control board is well connected; 2. Replace the display; 3. Replace the control board.
E1	Motor stall	1. Release the accelerator and stop braking; 2. Restart; 3. Replace the brake lever; 4. Replace the accelerator.
E3	Hall error	1. Check whether the Hall wire plug of the motor is loose; 2. Check whether the motor cable is damaged; 3. Replace the motor; 4. Replace the control board.
E4	Brake lever alarm	1. Release the brake; 2. Restart; 3. Replace the brake lever.
E5	Throttle alarm	1. Release the accelerator; 2. Restart; 3. Replace the accelerator.

BL	Low voltage alarm	1. Stop riding and get scooter charged; 2. Restart; 3. Check if firmware has been wrongly upgraded; 4. Replace the control board.
BH	High voltage alarm	1. Check whether scooter has been fully charged, riding the scooter at low speed, avoiding braking suddenly when scooter is fully charged; 2. Restart; 3. Check whether the firmware was incorrectly upgraded; 4. Replace the control board.
BP	Overvoltage, emergency	1. Check whether scooter has been fully charged, riding the scooter at low speed, avoiding braking suddenly when scooter is fully charged; 2. Restart. Check if firmware has been wrongly upgraded; 3. Replace the control board.
H1	Motor high temperature	1. Stop riding, or ride the e-cargo bike at low speed and avoid climbing hills; 2. Check whether the motor wire is damaged, and whether the temperature signal wire of the motor wire is short-circuited to the ground; 3. Replace the motor.
H2	Motherboard high temperature	1. Stop riding or riding scooter at low speed, avoiding climbing; 2. Check the installation of control board radiator; 3. Replace the control board.
H3	Motherboard overheating	1. Stop riding or riding scooter at low speed, avoiding climbing; 2. Check the installation of control board radiator;

		3. Replace the control board.
LR	Overcurrent error	1. Release the accelerator; 2. Restart; 3. Replace the control board.
S1	Short circuit error	1. Disconnect the motor and restart the e-cargo bike. If the alarm remains, replace the control board; otherwise, replace the motor.
S2	Phase loss	1. Restart and power on the e-cargo bike while it is stationary; do not power it on while moving; 2. Replace the control board.
SN	No serial number	1. Check whether the firmware version is correct; 2. Reset the serial number.
BT	BMS battery error	1. Check whether the BMS board is well connected; 2. Replace the BMS board;
BC	No data found for BMS.	1. Check whether the BMS board is well connected; 2. Replace the BMS board;

12. Unfolding and Folding of the Upright Pole

- Ensure the power is off.
- To fold, unlock the folding mechanism and then bend the handlebar stem.
- To unfold, stand the handlebars upright and lock the folding mechanism.

Pole Unfolding



Folding Pole



13. Battery Pack Storage and Maintenance

The Effects of Temperature on Batteries

Battery capacity varies with temperature. The driving range per charge will differ slightly at different temperatures. The table below is for reference only.

Temperature(℃)	-20	-10	0	10	20	30	40	50
Range	40%	60%	80%	90%	95%	100%	105%	110%

Storage Environment

- Placing the battery inside the vehicle will drain its charge. It's normal for the instrument panel to show a decrease in battery level after the vehicle has been idle for a period of time.
- Store the battery at an ambient temperature of 0℃-25℃. Do not store the battery in an environment above 45% charge, as this will cause irreversible capacity degradation.
- If the vehicle is not used for an extended period (e.g., winter, summer, or other special circumstances), the battery must be removed and stored separately, and regularly charged. Otherwise, the battery may be completely depleted, causing irreversible damage.
- The optimal battery charge is 50%. Storing the battery at a charge level below 10% or above 90% for extended periods will cause irreversible capacity degradation.
- Avoid dropping the battery. Drops may cause uncontrollable damage to the battery's internal components, potentially leading to leakage, overheating, smoke, fire, or explosion.



Charging Environment

- Use the original manufacturer's charger that comes with the battery. Do not use chargers from other brands.
- Charge the battery at an ambient temperature of 10°C to 40°C, ensuring there are no flammable materials nearby and that the area is well ventilated.
- Charging time instructions: A single charge should not exceed 12 hours. Overcharging will affect battery life and pose a safety hazard.
- Outdoor charging is strictly prohibited in inclement weather.
- During charging, the charger may heat up, and the surface temperature may be high. This is normal; use it as directed. Keep out of reach of children.

Battery usage and maintenance

- When using a new vehicle for the first time, the battery should be fully charged.
- After each use, the battery should be fully charged as soon as possible; this will help extend the battery's lifespan.
- Keep the battery away from open flames or high-temperature heat sources; during hot seasons, avoid exposure to direct sunlight to prevent battery damage.
- If the vehicle will not be used for an extended period, disconnect the power and remove the battery from the vehicle; store it in a cool, shaded place. Recharge the battery every 20–30 days.
- Do not disassemble used batteries yourself; they should be collected by relevant professional organizations.

14. Battery Pack Disassembly and Installation

Remove the main battery

- Turn the key to unlock and pull the battery out from the rear.



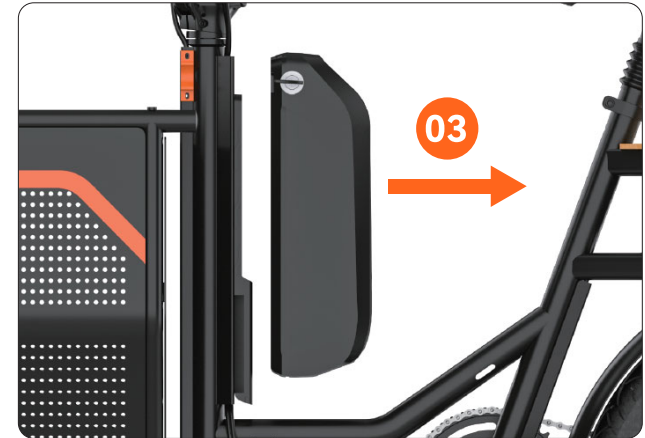
Install the main battery

- Ensure the battery lock is in the open position, insert the battery from the rear, turn the key to lock the battery.



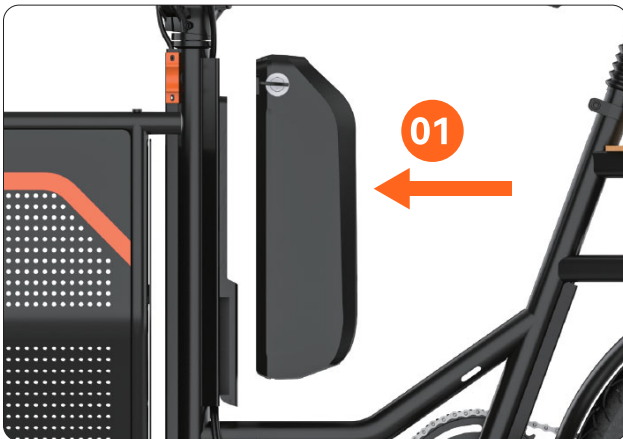
Remove the auxiliary battery

- Turn the key to unlock, pinch the battery pack, and pull upward to remove the battery.



Install the auxiliary battery

- Ensure the battery lock is in the unlocked position. Align the bottom of the battery with the connector, keeping the battery pack parallel to the head tube. Slide it all the way down, then turn the key to lock the battery.



15. Battery Pack Charging

Charging the battery pack while it's on the bike:

- Ensure the cargo bike is off and check that the charging cable and power adapter are securely connected.
- Remove the rubber cover from the battery charging port.
- Plug the charger into a power outlet, then plug the other end of the charger into the charging port on the cargo bike battery.
- Charge for approximately 4-5 hours. The charger indicator light will change from red to green when fully charged.
- Once charging is complete, disconnect all cables.



Charging the Battery Pack Individually

- Ensure the cargo bike is off and check that the charging cable and power adapter are securely connected.
- Remove the main and auxiliary battery packs as described above.
- Remove the rubber cap from the battery charging port.
- Plug the charger into a power outlet, then plug the other end of the charger into the charging port on the battery pack.
- Charge for approximately 4-5 hours. The charger indicator light will change from red to green when fully charged.
- Once charging is complete, disconnect all cables.
- Finally, install the battery pack onto the frame and lock the battery lock.

Note: After installing the main battery pack, the battery switch must be turned on before riding.



Charger Use and Maintenance

- This charger is for electric bicycles only. Do not charge other products.
- Warning: Users must charge according to the instruction manual. Failure to do so will result in consequences at your own risk.
- Note: Use only the original charger.
- Charge in a well-ventilated environment. Do not charge in enclosed spaces or high-temperature environments.
- When charging, insert the charging port first, then the power supply. After fully charging, disconnect the power supply first, then unplug the charging port.
- Do not leave the charger connected to an AC power source for extended periods without charging.
- If any abnormal indicator light or unusual odor occurs during charging, stop charging immediately and inspect or replace the charger.
- During use and storage, avoid foreign objects entering the charger, especially water or other liquids, to prevent internal short circuits.
- Do not disassemble or replace any components inside the charger.

16. Pre-driving Inspection

Tire Inspection

- Check the tire pressure based on the amount of deflection at the contact patch. Inflate the tire to the correct pressure if it is abnormal.
- Check for cracks or abnormal wear.
- Check for nails, stones, or glass embedded in the tread grooves.
- Replace tires if they are excessively worn.

Lighting and Brake Inspection

- Turn on the power and operate the light switch to check whether the headlight and taillights are working properly.
- Squeeze the front and rear brake levers to check the braking effect.

Handlebar and Steering Inspection

- Shake the handlebars to check for any abnormal noises. Inspect the handlebars, front fork, and shock absorbers for any deformation, bending, cracks, or other abnormalities.
- Check the front fork and shock absorbers for any abnormalities such as oil leaks. If any abnormalities are found, please contact after-sales service for inspection and repair immediately.
- Shake the handlebars to check for any abnormal noises or wobbling in the front fork. If any abnormalities are found, please contact after-sales service for inspection and repair immediately.

Handlebar Inspection

- Move the handlebars up, down, forward, backward, left, and right to check for any looseness.
- Check if the handlebars are too tight when turning.
- If the handlebars are loose or make a knocking sound, please contact after-sales service for inspection and repair immediately.

Wheel Inspection

- Check if the wheels rotate smoothly and without any abnormal noises. Ensure the front and rear wheel bolts are tightened.
- Check the wheel rims for deformation or cracks. If any damage is found, please contact after-sales service immediately for inspection and repair.

17. Maintenance and Cleaning

Regular Vehicle Inspection

- Check that fasteners are tightened and all joints are in good working order;
- Check for tire tread wear and cracks, ensure front and rear tire pressure is appropriate, and verify the drive system operates smoothly;
- Check that the braking system is functioning properly.

Vehicle Storage Instructions

- When not in use for extended periods, do not store this product outdoors, in direct sunlight, or in environments below freezing.
- Store in a dry, clean, well-ventilated indoor environment with a temperature between -20°C and 60°C and a relative humidity not exceeding 85%.
- If the vehicle is not used for an extended period, ensure regular charging (generally every two months) to maintain battery performance.
- This product should not come into contact with corrosive liquids and should be protected from any mechanical impact or heavy pressure.

Transportation

- During transportation, avoid severe mechanical impacts, exposure to direct sunlight, rain, corrosive chemicals, and harmful gases.
- Handle the product with care during loading and unloading to prevent dropping, rolling, and heavy pressure.

18. Warranty

For warranty information, please consult your dealer or email the manufacturer's service team:

support@szkingsong.com

Thank you again for purchasing Kingsong products.



Shenzhen Kingsong Technology Co., Ltd.

Address:: B5, 303-1, Yijing Industrial City, Tianliao Community, Yutang Street, Guangming District, Shenzhen, 518132 Guangdong P.R. China

E-mail: info@szkingsong.com



FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.