



E-BIKE

MANUAL

DK200

Read this manual completely before riding electric bicycle



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• Profile

Introduction:

Thank you for choosing our products. To ensure your safety and health, please use this equipment correctly. It is important to read this entire manual before assembling and using the equipment. Safe and effective use can only be assured if the equipment is assembled, maintained, and used properly. It is your responsibility to ensure that all users of the equipment are informed of all warnings and precautions. Before each ride, especially if you may travel a long distance, inspect your e-bike.

IMPORTANT:

- Check the tires for proper inflation and cracks of the tires. Keeping the tires properly inflated and maintained will help prevent flats and damage.
- Check all cables and cable housings for fraying, breaks, rust, or corrosion and replace if necessary.
- Check the brakes to make sure that both are working properly. Additionally, check the brake pads for any damage as they will be worn over time and eventually need replacement.
- Check all nuts and bolts are taut and properly fastened to prevent injury and unnecessary wear and tear on your e-bike.
- Do not at any time dismantle or assemble any of the above e-bike components!
- Comply with local laws and regulations when riding this product. Do not ride where prohibited by local laws.
- To reduce risk of injury, you must read and follow all "CAUTION" and "WARNING" notices in this document. Do not ride at an unsafe speed. Under no circumstance should you ride on roads with motor vehicles.
- Anyone whose weight is over the limits (see specifications) is prohibited from riding.
- Use only approved parts and accessories. Do not modify your E-bike. Modifications to your E-bike could interfere with the operation of the E-bike, could result in serious injury.
- E-bike cannot be used as off-road vehicles or extreme cycling sports.
- Don't change the default speed setting of the E-bike for your safety concern. Wear a helmet and protective gear when riding.
- This manual is intended as a general guide to your new e-bike and not a comprehensive reference guide. For technical support, including service, maintenance, and repair information, please contact us for more information about our e-bike.

• Structural features and working principle

Working principle of the structure components



1: Handlebar	2: Grip	3: Front fork	4: Headlight
5: Disc Brake	6: Chain	7: Battery	8: Crank set
9: Pedal	10: Parking rack	11: Rear motor	12: Fender
13: Controller	14: Rear light	15: Saddle	16: Frame

- ◆ Electric pedal bicycle is green and environmentally friendly, which functions with pure electric drive combined with electric power, pedal and pedal drive.
- ◆ Electric drive: toggle the speed switch on the handlebar, the controller receives the speed command, and allocates the corresponding power output by the motor.
- ◆ Electric power with pedal: When the power is turned on, by stepping on the rotating sprocket, the controller reads the rotation signal of the sprocket sensor, and controls the motor to output the corresponding power.
- ◆ Pedal drive: when the power is OFF you can pedal and have a cycling trip.

Specification

	DK200
Frame	Carbon Steel Vintage Style Frame
Motor	48V 750W
Battery	48V 12.5AH
Max load	55KM
Max speed	28MPH
Tire	26"*4.0 Snow Fat Tire

•3Riding Safety

Operation

- Before riding, it is necessary to check whether the fasteners of the vehicle are loose or abnormal, and whether the electrical components are abnormal. Only when there is no abnormality, you can ride and safely use the Electric Bicycle.
- When the e-bike is sold within 15 days or after riding 100KM, need to tighten the screw parts of the e-bike, to avoid accidents, after riding 500KM need to tighten the screw parts of the e-bike maintenance.
- Electric bicycle users must abide by local traffic laws and regulations and pay attention to riding safety.
- It is recommended to wear a helmet when riding. When riding in rain or snow, the braking distance will be extended. Pay attention to slow down, heavy rain and other bad weather, and try to avoid traveling.
- Do not park electric bicycles in building entrance halls, evacuation corridors, walkways or exits of security doors.
- Electric bicycles should not be charged and parked in residential buildings. When charging, keep away from combustibles. The charging time should not be too long. When charging, the red light of the charger indicates that it is charging, and the green light indicates that the power is fully charged.
- Do not use a powerful faucet rinse, avoid directly water rinsing the electrical components of the electric bicycle, and try to avoid letting water entering the battery box
- It is forbidden to use wet hands and touch the metal conductors or touch the live parts of the electric bicycle, such as battery box socket,the battery box connecting wire socket, and the charger power socket and other parts.
- Used batteries should not be dismantled without authorization, and should be handed over to the relevant professional departments for recycling.

• Installation and commissioning

How to install the front wheel



① Find the front wheel, adjust the position of the front wheel hub parts, keep the safety hook inward.



② Align the shift fork with the axle in the center of the wheel, make sure the axles on both sides are inserted into the shift fork, and install the safety hook, washer and screw in sequence.



③ Use a wrench to tighten the screws on both sides in turn.

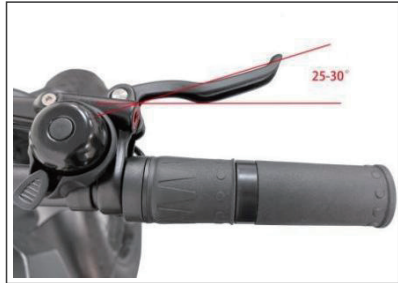
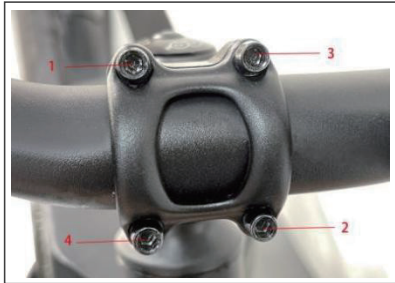
How to install the handlebar

◆ Arrange the speed change, brake line pipe, insert the handlebar into the standpipe, lock the top cover screw, align the handlebar and the tire at 90°, and lock the fixing screws on both sides. Torque $\approx 8\text{N.m}$

⚠ Warning: Before each ride, please ensure the following items, frame lock, whether the brake system is normal, and whether the tire is fully inflated to ensure safe riding.



◆ Twist the 4 screws at the front of the stem to adjust the angle of the handlebar. The locking sequence is diagonal locking. It is recommended to adjust the brake lever to a comfortable angle of 25-30°.



How to install headlight

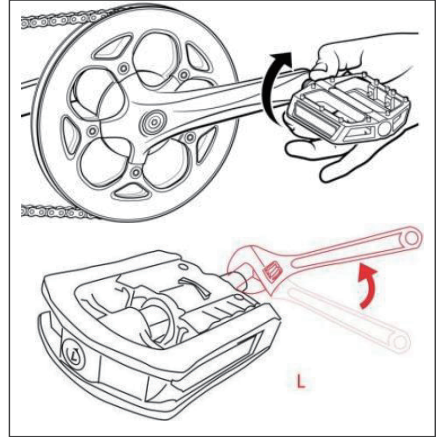
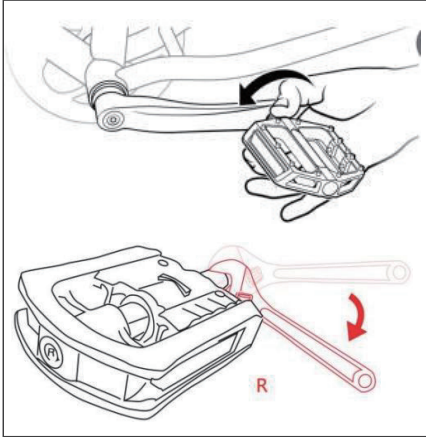
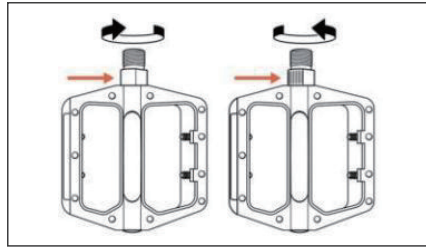
Plug in the corresponding waterproof wire power plug, red to red, arrow straight into a straight line into the end, and tighten the screw on the bracket with a tool, the locking torque $\approx 8 \text{ N.m}$



How to install the pedal

◆ Before installing the pedals, first distinguish between the crank side and the crank side of the sprocket, (the L mark next to the screw port is the left crank; the R mark is the crank side of the right sprocket), use a 15# wrench to tighten according to the installation direction, and tighten the L side counterclockwise, the R side is clockwise tight, and the pedal locking force is not less than 18N.m.

⚠ Warning: Unlocked pedals may cause a crash, and it is strictly forbidden to ride without locked pedals.



How to install the battery

Align the battery with the guide rail, push down until the bottom touches the back cover, and turn the key clockwise to lock the battery.

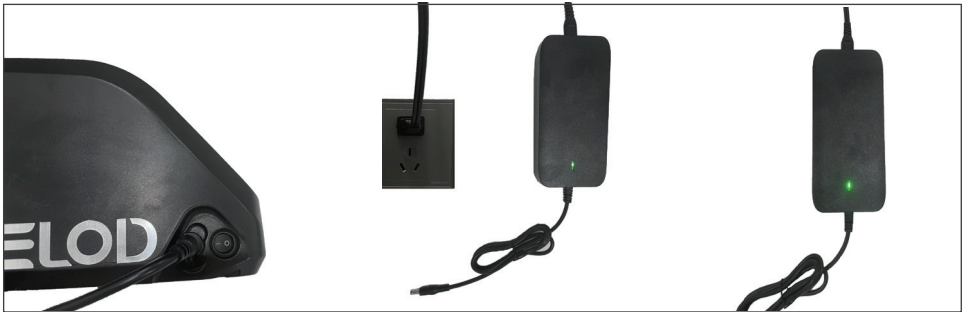


How to charger the battery

- ◆ DC charging port on the right side of the battery power switch.
- ◆ The power switch, at “-” is turn on, press the power indicator on the left of the battery, the indicator lights up, the electric bicycle enters the standby state, the power at “O” is turned off, and all the power sources are turned off. When the battery is pulled out of the rail, the power must be turned off.



◆ Use the charger with the corresponding voltage and current, insert the DC plug of the charger into the battery, and insert the power plug into the mains socket. the charger light shows red when it is charging, and green when it is fully charged.

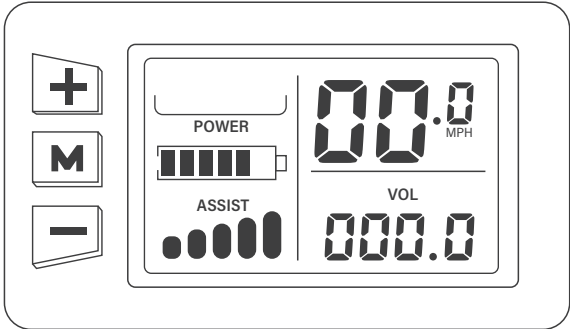


How to use LCD display

Long press M key for 3 seconds to start up, through Key adjustment 1-5 switch power output gear, long press Key 6KM boost mode, long press Key to open the light, the display screen will display the corresponding value, reduced to zero when the motor does not work.

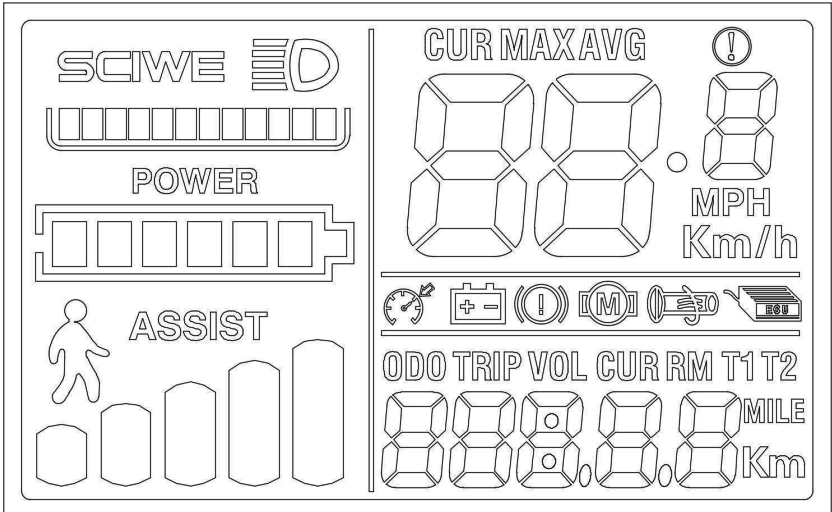
- 1: Display the current riding speed, KM/H & MP/H display
- 2: Battery battery capacity display, capacity display less than half should be fully charged in time
- 3: Power gear 0-5
- 4: Riding kilometers display
- 5: "+" Key adjustment power output increase, long press to open the light
- 6: Long press the M key for 3 seconds on/off, light press to switch mileage / voltage / maximum speed / average speed / boot time display

7: “-” Key adjustment power output is weakened, long press 6 KM boost mode If you do not use the electric bicycles for more than 10 minutes, the display will automatically shut down.



Description

All contents of the display screen(all displayed within 1S after boot).



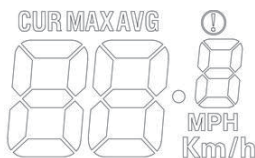
Show a description of the content


 Headlights

 Voltage status level POWER





ODO TRIP VOL CUR RM T1 T2 Multi-functional display area

POWER ————— Total Mileage ODO, Single Mileage TRIP, Fault Code Error, PowerWAT, Maintenance Maintain; DST TO GO (not currently in use)

CUR MAX AVG
 Vehicle mode
 POWER: Power mode Speed display area

ODO TRIP VOL CUR RM T1 T2
 Maximum speedMAX、 AverageAVG
 Unit: MPH, KM/H
 The meter calculates the true speed based on wheel diameter and signal data

Vehicle status display area
 The significance of the vehicle status code:

VOL	Digital voltage		Turn the fault
	Brake tips		The controller is faulty
	The motor is faulty		

Fault generation

Fault code _(decimal)	The status of the fault	remark
0	Normal state	
1	retain	
2	brake	
3	Power sensor fault (riding sign)	Not implemented
4	6KM/H Cruise	
5	Cruise in real time	
6	Battery under pressure	
7	The motor is faulty	
8	Turn the fault	
9	The controller is faulty	
10	Communication reception failure	
11	Communication sending failure	
12	BMS communication failure	
13	The headlights are faulty	

Set up

P01: Backlight brightness,1 level darkest,3 levels brightest;

P02: Mileage units,0: KM; 1: MILE;

P03: Voltage level: 24V, 36V, 48V, default36V;

P04: Sleep time: 0, Do not hibernate; other numbers are sleep time, range:1-60;unit minutes;

P05: Power gear: 0, 3 mode:1st 2V,2nd gear,3V,3rd gear,4V; 1,5th gear mode: 1st gear 2V,2nd gear,2.5V,3rd gear,3V, 4th gear,3.5V,5th gear,4V; P06: Wheel diameter: unit,inch;accuracy:0.1;

P07: Number of measuring magnetic steels: range:1-100; P08: Speed limit: Range 0-50km/h,50 means no speed limit,

1.Non-communication state (instrument control) : when the speed is greater than the set speed, turn off the PWM output; When the speed drops to less than the set speed, the PWM output is automatically turned on, and the driving speed is the current speed $\pm 1\text{km/h}$; (Speed limit for power only, no speed limit for handle)

2.Communication state (controller control) : drive speed is maintained at the set value, Error: $\pm 1\text{km/h}$; (Speed limit of power assist and turn handle)

Note: The value here is based on kilometers. When the unit setting is converted from kilometers to miles, the speed value on the display interface will automatically be converted to the correct value of miles. However, the speed limit data set at this menu under the mile interface will not be converted, which is inconsistent with the actual speed limit value displayed.

P09: Zero start, non-zero start setting,0:zero start;1:non-zero start;

P10: Drive mode setting 0: power drive (through the power gear to determine how much power output, this time the turn is invalid).

1: electric drive (through the handle drive, the power gear is invalid).

2: Power assisted drive and electric drive coexist at the same time (the electric drive is invalid in zero start state).

P11: Power sensitivity setting range:1-24; P12: Power start strength setting range:0-5;

P13: The power-assisted magnetic steel disc type is set to 5,8,12 magnetic steel types P14: The controller limit value is set to the default 12A range:1-20A

P15: The feature is not turned on yet

P16: ODO Zero setting Press and hold the upper key for 5 seconds for ODO zeroing

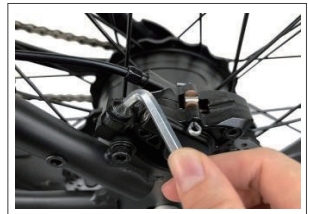
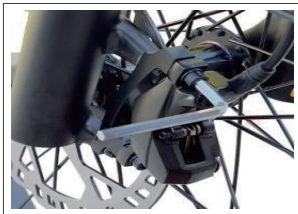
Specific features, specific settings options for specific protocols:

How to install and adjust the brakes

◆ Insert the elbow allen key into the screw hole where the brake is fixed to the frame, press the screw in the direction of "loose left and tighten right", and turn it slightly to the left to loosen the brake slightly.

◆ Then squeeze the brake with your left hand, the purpose is to keep the rear brake close to the brake pad and keep it tight.

◆ Next, use the elbow allen key to tighten the brake to the right until the brake is firmly fixed, then release the brake, the brake will automatically return to the position and if the direction of the brake pad is correct it will not be worn out.



• Maintenance and repair and troubleshoot

Daily Maintenance

- ◆ Dear users In: order to prolong the service life of the Electric Bicycle and enable it to drive safely and comfortably, please check it regularly. When the electric bicycle is stopped and used for a long time, it should also be checked regularly. When the Electric Bicycle running for 300KM, it should be checked and maintained.
- ◆ Check whether the brake clearance is within the specified range (10-15MM). If it is not correct, it should be adjusted. Serious wear of the brake pads (more than 2/3) requires timely replacement.
- ◆ Electric bicycle tires are often in contact with the ground, and any stones, glass, and nails on the ground will cause certain damage to the electric bicycle. Therefore, you must pay attention to inspection when driving. In addition, you should always check whether there are obvious cracks on the ground surface and any cracks, damages of tires. Whether nails, glass and other objects have penetrated, and whether there is abnormal wear and tear caused by long-term driving.
- ◆ The battery is the key part of the electric bicycle, it should be used correctly and properly protected, and users should be able to charge it as needed, if the daily travel distance is greater than 20KM, it should be charged every day After the mileage of 100KM, you need to add special chain oil to the chain.
- ◆ Riding without oil will wear out the chain, sprocket and freewheel.
- ◆ After the chain is used for 10000KM, there will be wear and tear. The length of the chain will affect the smooth speed change. Use the chain ruler to measure the wear and tear and need to be replaced in time.
- ◆ When you come back from riding in rainy days, you need to wipe the water traces on the electric bicycle in time to avoid acid rain from corroding accessories
- ◆ When the battery is in use, it is forbidden to over-discharge, under-charge, and over-charge, so as not to damage the battery and shorten the service life of the battery.

Troubleshooting analysis

Item No.	Error	Reasons	Solutions
1	Speed regulation failure or maximum speed is low	1.The battery voltage is too low 2.The speed control handle is continuously loose 3.The spring in the speedcontrol handle is stuck or failed	1.Fully charge the battery 2.Step up after inspection 3.Replace speed throttle

2	Power on the motor does not work	<ol style="list-style-type: none"> 1.The motor connection wire is loose 2.The power off brake handle failure 3.Motor hub wire plugs loose or damaged 	<ol style="list-style-type: none"> 1.Tighten the cable 2.Check whether the power cord of the brake lever is disconnected 3. Tighten the link plug or replace
3	Insufficient range on a single charge	<ol style="list-style-type: none"> 1. Insufficient tire pressure;insufficient charging and charger failure 2.Battery aging; many uphill; strong headwind; frequent brake activation; heavy load andlow air temperature 	<ol style="list-style-type: none"> 1.Sufficient gas; sufficient charge or whether the charger connector is in poor contact, 2.Replace the battery; pedal assist recommended
4	Charger not charging	The charger plug is disconnected or the connection between the plug and the socket is loose	Tighten socket inserts; replace fuses, solder connecting wires
5	The battery is Fully charged but no voltage displayed, hub motor cannot be used	<ol style="list-style-type: none"> 1.Starting the motor when the voltage is lower than 30V 2.The battery switch cable is disconnected 3.The display plug in comes off 4.Controller failure 	<ol style="list-style-type: none"> 1.Replace the battery with a new one 2.Reconnect/tighten 3.Replace the display 4.Replace the controller
6	The display shows E02	<ol style="list-style-type: none"> 1.Power brake involved 2.In brake position 3.Brake handle failure 	<ol style="list-style-type: none"> 1.Adjust the power off brake handle screws 2.Release brake handle 3.Unplug the brake handle to break the wire
7	The display shows E06	<p>Out of battery power</p> <ol style="list-style-type: none"> 1. The values set in display setup menu P03 are not consistent with battery parameters 	<ol style="list-style-type: none"> 1.Charge the battery pack with the appropriate charger 2.Enter the display menu and set the P03 value to adjust the voltage 3.Corresponding to the battery pack
8	The display shows E07	<ol style="list-style-type: none"> 1.Motor connection wire is not plugged in 2.The motor hall is faulty 3.Motor wire is broken 	<ol style="list-style-type: none"> 1.The motor cable is not properly inserted. Remove and insert the connector between the controller and the motor 2.Replace the motor 3.Check the motor wire at the motor shaft for damage and reweld the connecting wire
9	The display shows E08	<ol style="list-style-type: none"> 1.Governor Hall malfunctioning 2.Disconnected connecting wire 	<ol style="list-style-type: none"> 1.The governor harness is not plugged in 2.Plug the orange wire harness pair into the main plug

10	The display shows E09	1.Controller failure 2.The main line pin is out of shape	1.Replace the controller 2.Unplug the main line to check the main pin for deformation, breakage
11	The display shows E10	1.Communication accept fault 2.The main line is broken 3.The display does not match controller protocol	1.Replace the display or controller 2.Correct the main line or replace the main line 3.Copy the correct protocol
12	The display shows E34	1.Governor hall is faulty 2.The connection cable is off	1.The governor harness is not plugged in 2.Plug the orange wire harness pair into the main plug
13	The display shows E36	1.Motor connection wire is not plugged in 2.The motor hall is faulty 3.Motor wire is broken	1.The motor cable is not properly inserted. Remove and insert the connector between the controller and the motor 2.Replace the motor 3 Check the motor wire at the motor shaft for damage and reweld the connecting wire
14	The display shows E37	1. Power brake intervention 2.Be in the brake position 3.Brake handle failure	1.Adjust the power off brake bar screws 2.Release the brake handle 3.Unplug the brake handle to break the wire
15	The display shows E30	1.Communication accept fault 2.The main line pin is broken 3.Meter and controller protocol do not match	1.Replace the display, controller 2.Correct the main line pin or replace the main line 3.Copy the correct protocol

• Precautions

Notice:

- ◆ Users must follow the instruction manual during charging the battery.
- ◆ Reminder: the original charger must be used
- ◆ Pay attention to the type and applicable voltage of the batteries that the charger can charge, and it is strictly forbidden to mixed them.
- ◆ When charging, it should be placed in a ventilated environment. It is strictly forbidden to charge in a confined space or in a hot sun and high temperature environment. Do not place the charger in the saddle and tail box for charging.

- ◆ When charging, plug in the battery first, then plug in the power supply, cut off the power supply first, and then pull out the power plug.
- ◆ When the green light is on, the power supply should be cut off in time, and it is forbidden to connect the charger to the AC power supply with no load for a long time without charging.
- ◆ During the charging process, if the indicator light is abnormal, or there is a peculiar smell or the case of the charger/ discharger is overheated, the charging should be stopped immediately, and the charger/ discharger should be repaired or replaced.
- ◆ During the use and storage of the charger, avoid the entry of foreign objects, especially avoid the inflow of water or other liquids, so as to avoid short circuit inside the charger, try not to carry the charger with the e-bike, if it needs to be carried, it should be placed in the toolbox after shock absorption treatment.
- ◆ In heavy rain weather, avoid the rear wheel motor soaking in water during riding. The water flowing over the motor shaft will easily lead to water ingress, resulting in damage to the motor and controller, which is not under the scope of Guarantee.

• Warranty Service

If the product has problem with the following forms during the warranty period, we will provide customer service as part of the product quality guarantee.

Accessories	Quality problem	Warranty period	Service content
Motor	Motor will not be able to use	12 months	Free delivery of parts
Accelerator	Natural conditions (such as impact force cannot be used except damage)	12 months	Free delivery of parts
Controller	Failure occurs under normal use	12 months	Free delivery of parts
Charger	Failure occurs under normal use	12 months	Free delivery of parts
Lithium Battery	Discharge under normal use	12 months	Free delivery of parts

Notes:

If the above issues occur during the protection period, please contact us and send us photos or videos of the defective parts. If we confirm that the fault is caused by the quality of the product itself we will send you the parts that are needed replaced for free.

This warranty does not cover:

Products used other than in accordance with their intended use or the use instructions / parameters set out in the relevant User Manual;

Products that have been misused, involved in an accident, neglected or abused; Products used for competition including but not limited to racing or trials; Products used for rental purposes or any commercial application; Products that have been improperly assembled;

Products that have not been maintained or serviced in accordance with the instructions set out in the relevant User Manual;

Products altered or modified in any way from the manufacturer's specifications; Parts requiring replacement or repair as a result of normal wear and tear.

****The pictures in the instruction manual only for demonstration ,please refer to the actual electric bicycle received!**

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