

ELECTRIC BICYCLE USER MANUAL



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GENERAL INSTRUCTIONS

DEAR USER:

Thank you for buying one of our superb electric bikes! You've one step closer in realizing one new way of cycling that is fast, fun and friendly to the environment.

Our electric bikes incorporate all the advantages of bicycles which have evolved over the past 150 years of mainstream cycling development, whilst utilizing cutting-edge modern materials and technologies to ease our transition from petroleum-dependency into a cleaner and healthier lifestyle.

We pledge to quality means that all of our electric bicycle components are high-value, purpose-built and reliable.

We have added many safety devices for correct usage. It is your responsibility, however, to acknowledge and understand the safety implications and possible risks of cycling. So, in order to ensure your safety during riding, please read this manual carefully!

Special Instructions/ Disclaimer

- ▶ This manual is sketch-map only for your information about most aspects of normal bike operation. Please be understandable if there is any difference or unconformities with this manual due to technical improvements.
- ▶ It is strongly recommended that users do not attempt to modify any of the technical or mechanical characteristics of this ebike without prior consultation with your dealer.
- ▶ The descriptions and/or procedures outlined in this manual are intended for reference use only. We reserve the right to make any changes at any time without notice. Also, we are not liable for any incidental, consequential, or contiguous damages arising from the use of this product.

Warning:

- (1) Review and follow all safety instructions contained in this Owner Manual. For your safety, never misuse, abuse or improperly install or modify the main parts, always keep in mind that Safety Come First!
- (2) This product is not recommended for downhill competition, stunt riding, abusive riding or any dangerous action.

SPECIFICATIONS

PRODUCT MODEL : SYR03

MOTOR : 250W Brushless Geared DC hub motor

CONTROLLER : 48 Volt Pedal/Pedal Assist/Throttle w/ Overload and Low V Protection

BATTERY : 48V 20Ah Lithium-ion battery

CHARGER : 100-240Volt 2 Amp smart chargers (6-8 hours full charge)

FRAME : Aluminum alloy

MAX SPEED : 20km/h

Pure electric endurance : 70km

Power assisted range : 90km

GEARS : 7-speed gears with shifters

SUSPENSION : Aluminum alloy suspension

HANDLEBARS : Aluminum alloy

RIMS : Aluminum alloy double wall

TIRES : CST27*2.4

BRAKES : Shimano mechanical disc brake

BICYCLE WEIGHT : 28kgs (incl.battery)

LOADING CAPACITY : Rider weight should not exceed 150kgs

ASSEMBLY AND ADJUSTMENT

General Assembly Instructions:

Each ebike was well assembled and strictly checked before leaving the factory. When packing we usually remove the front wheel and handlebar of some e-bikes for safe transportation. However, you could very easily re-install them according to the guidelines below:


Tools required: Wrench/Spanner; Allen/hex key; Screwdriver, etc. As the new owner of one of our bikes, we have given you a useful tool kit for each model electric bicycle.

- ▲ **Front wheel:** Put the ends of the front wheel hub in the fork ends and then tighten the wheel, make sure it's perfectly aligned and secure. The quick release mechanism must be seated squarely and firmly tightened to ensure safety. Tighten the brake levers in their correct positions .
- ▲ **Front Mudguard&Headlight:** Tighten the hex nuts on top of the front fork till they are secured. The mudguards are made of polycarbonate and should not rattle when they're securely fastened.
- ▲ **Handlebar / Stem/Headset:** Handlebar and stem comes pre-assembled. Remove the rubber plug and then Loosen bolts on the stem and insert and turn the handle bar assembly until it is at right angles with the frame. Align the handlebars so they are perpendicular to the front wheel. Then use the Allen key to tighten. **Make sure all bolts are securely fastened before riding.**

Hex keys, (supplied), will be required to carry out these adjustments.

Note the marking on the seat post and handlebars that indicates the minimum insertion.

Do not use the Trike with the markings showing.

- ▲ **Pedals:** The right-hand pedal (marked "R" on the pedal shaft) must be fitted on the right-hand crank and tightened firmly clockwise. The left pedal (marked "L") should be fitted on the left-hand crank and tightened firmly anticlockwise but not excessively, as the crank threads are made of aluminum alloy. Use the 15mm spanner.
- ▲ **Seat post:** Insert into the seat tube of the bicycle frame and align. Tighten clamps and ensure seatpost is firmly fastened.
- ▲  **Important!** You can adjust the height of the seatpost yourself. However please don't adjust the seat post beyond its maximum extension mark.
- ▲ **Brakes:** Brakes are one of the most important safety features on the bicycle. To minimize the risk of injury, it's vital to ensure they are correctly adjusted. Squeeze brakes to test their responsiveness.

CHECK BEFORE RIDING

Please obey the local traffic regulations for riding this ebike, and ride it only in non-motorized way. Like most other cycles, your ebike is designed to carry only one person; carrying a passenger is not recommended.

Always wear an approved safety helmet (make sure it is the proper size and complies with CE safety standards).

Wear bright clothing to help make you visible to other motor vehicles when you are riding, even in daylight hours.

Please read this instruction manual carefully before you ride the electric bike for the first time.

Don't lend the electric bicycle to anyone who doesn't know how to operate it.

Regularly check the tire pressure to facilitate easy pedaling and minimize battery consumption.

Always check the brakes before using your bike to make sure they are working correctly.

Make adjustments to enhance the brakes' sensitivity if needed.

Please use the brakes in advance of any hazard and reduce your speed on snowy or rainy days.

Please hold the handle in both hands except you need to notify others for turns etc.

Please open the light in dark or low-visibility conditions. Please push the bike, if you can not use the light by foot during riding in case that you be damaged by the involvement or instability.

Make sure your body and other objects do not come into contact with the chain or the wheels which could lead to damage/injury.

Never touch the charger connector on the battery case with your wet hand, key or other conductive metals in case they damage the battery pole and cause a short circuit.

To brake, the rider must action both brake levers to the correct degree.

Never ride the electric bike under the influence of drugs or alcohol.

Take care in bad conditions, especially on wet or loose surfaces.

If possible, do not ride in adverse weather conditions, low visibility or if you are very tired for the sake of safety.


This electric bicycle can be used in the rain; however, it must not be submerged in water or puddles. The controller, motor and other electrical devices may be short circuited, causing damage and creating possible dangerous situations.

Never use sprayed water to flush your ebike, don't get the electrical components wet (battery connector, motor, controller, cables, handlebar controls, etc.)

Don't let children under the age of 14 ride your ebike without close supervision.

The natural environment of riding this ebike: 1.) Ambient temperature: -15°C — 40°C

2.) Relative humidity: ≤95%

 It's your safety so it's up to you to make sure you do everything you can to stay safe.

Do these simple things and soon it will become second nature.

BATTERY AND CHARGING

Charging the Battery

Always use the smart charger supplied by original manufacturer, which should be the best match for your bike (never use a charger from a different model). Before charging, you must turn off the power switch and pull out the key. Keep the charger in a dry, well-ventilated area when it's working.

The charger is designed for indoor use only. Keep the charger away from water to avoid electrical short circuits. Never use it in a damp, combustible or explosive environment. Do not remove the plug by pulling the cord; always grip the charging port by its metal body.

The battery can also be removed for recharging. Before you do this, you will have to unlock the battery with its key, and then take out the battery from the frame. When you finish charging, replace the battery and then lock the battery again.

Firstly, connect the output plug of the charger with the socket of the battery case properly, and then plug the power cord to the power source/electrical outlet. And the charger indicator will light up, which means it's on charging.

When the light turns from Red to Green, it means the battery has been fully charged. Usually it will take about 6-8 hours to recharge the Lithium battery depends on the previous battery capacity.

After charging, please pull out the power cord from the electrical outlet, and then disconnect the plug from the battery case. Again, do not leave the charger plugged into the battery or electrical outlet for extended time, as it may potentially damage the charger or cause a fire.

After the light turns GREEN, the charger is in the state of trickle-charging; i.e. the electric current "fills slowly" and maintains the "full-charge" state. If you are going to be away or out for a long time, you should pull out the charger plug, especially in hot weather.

The charger will become a bit warm during charging, so keep charger away from any heat source. Always keep the charger dry and clean. The electronics inside contain high voltage, so please don't disassemble the charger at any time.

Whilst charging, please keep the ensemble out of the reach of children. Do not put anything on top of the charger when use, and prevent any liquid, metal or metal filings to permeate into the charger. Do not touch either of the any two poles in the battery case with your hands when the battery is removed for charging. Also the charging connector poles cannot be touched with any metal or any other material that conducts electricity, otherwise it may cause short circuit.

Avoid any contact with water when charging your battery. If a plug or socket gets wet, dry it completely before using.

If you notice a peculiar smell or that the temperature of the battery or charger is extremely high when charging the battery, please stop charging immediately and notify your local distributor or Service Centre.

About Battery

The battery also comes with two keys. It is recommended to place the second key in a secure location in case of loss.

Your battery is the latest lithium-ion battery technology on the market today. It has no memory, and therefore can be charged at any level you wish. It is a better practice to top off your battery at your convenience rather than waiting until your battery is low to ensure maximum battery life.

DO NOT use the bike when the battery capacity or charge level is very low. The battery does not have to be completely discharged before it is recharged . And Do NOT leave your battery in a fully discharged state for long periods of time. The battery will continue to self-discharge, resulting in damage.

If your bike is not being used for a long period of time, it should be charged for 3-4 hours once a month. This could keep good service life of the battery.

It is not unusual for a well-maintained battery to last for many years. Even though your bike will feel less powerful as the battery gets older and the range will diminish you can continue using the battery for years.

If Lithium batteries are left flat for an extended period then they may no longer be functional and a new replacement will be required.

 **Note! Please read the supplied charger manual in detail before using the charger.**

RIDING INSTRUCTIONS

Checklist before riding your ebike for the first time:

- ▶ The bicycle was carefully assembled and thoroughly quality-checked before leaving the factory. Nevertheless, before using for the first time, check the following elements:
- ▶ First do visual inspection to see that whether the battery is fully charged and correctly locked in place.
- ▶ Check the air pressure of the tires to ensure that they are correctly inflated (Not too hard and NOT too soft!) Check that your puncture repair kit is handy.
- ▶ Check and make sure the front and rear brakes are working properly.
- ▶ Check the tightness and alignment of the front and rear wheels.
- ▶ Check and make sure the handlebar and saddle are fastened tightly enough.
- ▶ Make sure the quick releases are locked and all screws/locknuts/fasteners are tightened.

Switch On/Off

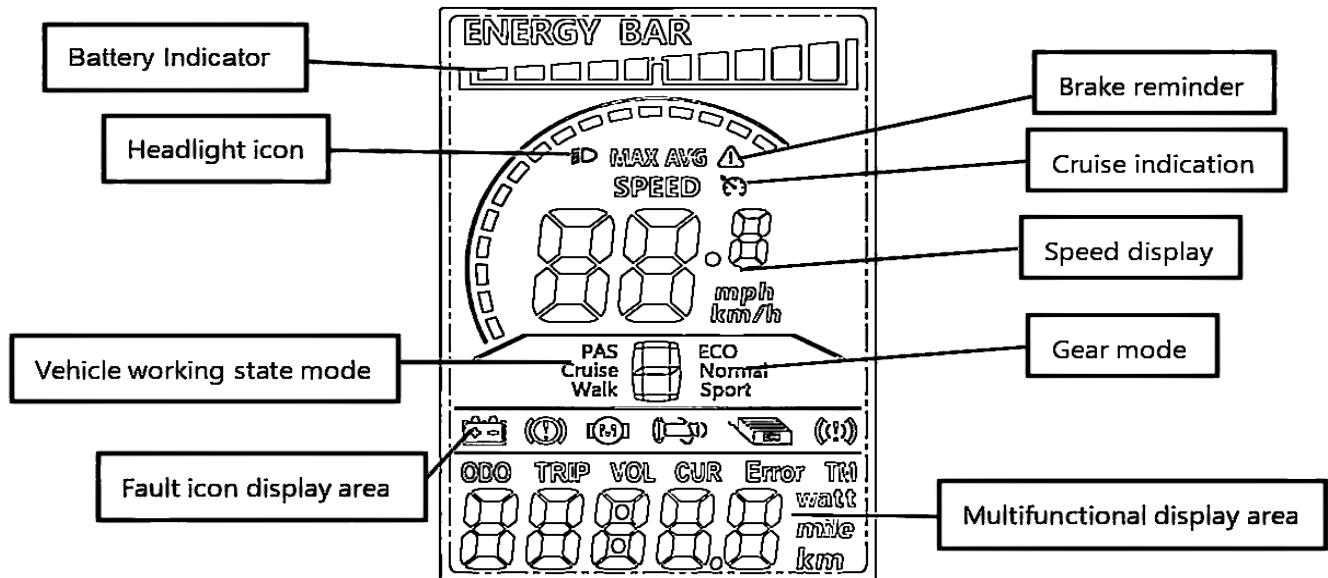
Turn on the power switch on the handlebar LCD console/display (For some ebikes, you need to turn ON the switch on battery firstly and then turn on the power switch on the LCD display), the battery gauge indicator will light on, which means power connected.

To turn off the power switch on Display (Some ebikes you will need to turn OFF battery switch also), the power will turn off.


About LCD Console/display

1. Function and Display

The instrument adopts a structural form of separate design between the main body of the instrument and the operating buttons.









2. Display content introduction

2.1 The headlights  can be manually turned on by the instrument panel and automatically turned on by sensing ambient brightness (requires light sensitivity support).


2.2 Battery level display BATTERY 

2.3 Multifunctional display area ODO TRIP VOL CUR Error TM

ODO : Total mileage ; TRIP A/TRIP B : Single Mileage ; VOL : Current voltage of the battery ;
CUR : Current working current ; RM : Remaining mileage ; TM : Instrument startup time .


2.4 Vehicle mode      

PAS : Assist gear ; Cruise : Cruise control mode ; Walk : Walking Boost Mode ; Adjustable 0-9 gears.


2.5 Speed display area 


MAX : Maximum speed ; AVG : Average velocity ; MPH : Unit , KM/H


The instrument will calculate the actual speed based on the wheel diameter and signal data.

2.6 Vehicle status display area 


Meaning of fault icons :

 Under voltage fault

 Motor malfunction

 Handle malfunction

 Controller malfunction

 Communication failure

Status prompt icon :  Cruise activated

3. Significance of M6C instrument vehicle status code

Status Code	State significance	Processing method
E00	Normal state	
E06	Battery under voltage	Battery charging required
E07	Motor malfunction	Check if the power line is loose
E08	Handle malfunction	Check the connection of the handle, and if it is normal, replace the handle
E09	Controller malfunction	Check the Hall connection of the controller
E10	Communication reception failure	Check if the instrument cables are properly connected
E11	Communication transmission failure	Check if the instrument cables are properly connected

Set up

P01 : Backlight brightness, level 1 is the darkest and level 3 is the brightest.

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

P03 : Voltage level:24V/36V/48V/60V

P04 : Sleep time:0 , Not dormant ; Other numbers represent sleep time , range:1-60 ; Unit minute.

P05 : Assist gear: 0, 3 gear modes; 1, 5 gear modes;

P06 : Wheel diameter:unit,inch.

P07 : Measuring the number of speed magnetic steel ; range : 1-100 ;

This parameter is related to the displayed speed on the instrument panel and needs to be entered correctly.

If it is a regular hub motor, directly input the number of magnetic steel;

If it is a high-speed motor, the reduction ratio also needs to be calculated. The input data is the number of magnetic steels multiplied by the reduction ratio; For example, the number of magnetic steel in the motor is 20, and the reduction ratio is 4.3. The input data is: $86=20 \times 4.3$

P08: Speed limit : Protocol No. 2 range 0-100km/h, 100 indicates no speed limit;

The input data here represents the maximum operating speed of the vehicle : For example, entering 25 indicates that the maximum operating speed of the vehicle will not exceed 25km/h;

Maintain the driving speed at the set value,Error : $\pm 1\text{km/h}$; (Both assistance and steering are limited in speed)

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

P09 : Zero start、 Non zero start settings, 0 : Zero start ; 1 : Non zero start ;

P10 : Driving method

Set 0 : Power assisted drive (determines how much power is output based on the power assisted gear, and the handlebar is invalid at this time).

Set 1 : Electric drive (driven by a lever, at which point the assist gear is invalid).

Set 2 : Coexistence of power assisted drive and electric drive

P11 : Assist sensitivity setting range:1-24 ;
P12 : Power start intensity setting range:1-5 ;
P13 : Assist in setting the type of magnetic disc There are three types of magnetic steel with 5/8/12 grains

P14 : Controller current limit setting : Default 18A. range : 1-20A

P15 : Controller under voltage value

P16 : ODO reset setting , Long press the up button for 5 seconds to reset ODO to zero

P17 : 0. spare

P18 : Display speed ratio adjustment range : 50%~150% ,

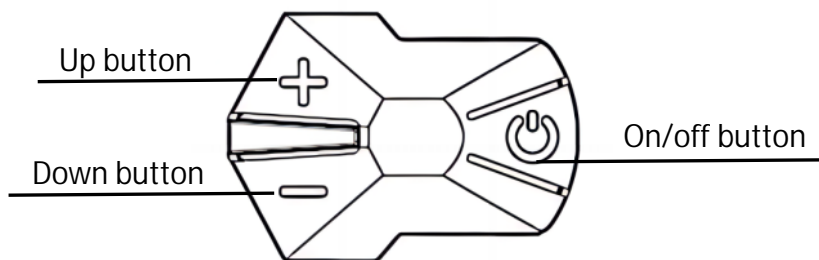
P19 : 0 gear enable position , 0 : Including 0 levels , 1 : Excluding gear 0

P20 : 0: Protocol No. 2 1: 5S protocol 2 : spare 3 : spare

Note: The above functions are only valid for Protocol 2.

4.Button Introduction

The specific combination positions of the buttons are as follows:




Introduction to Button Usage:

4.1 Key operations are divided into short press and long press, as well as combination key long press.

4.1.1 Short press is used for quick/frequent operations, such as:

(1) When cycling, you need to modify the assist/speed gear, short press once  or 

(2) When cycling, switch to the multifunctional area to display data, short press once 

4.1.2 Single key long press, mainly used for switching (mode/switch status)

4.1.3 Composite keys (long press) are used for parameter settings, as the operation is complex and can reduce errors.

(Short press does not make compound keys, as it is easy to trigger by mistake and difficult to operate)

Specific operation explanation:

4.2 Modify power ratio/electric gear

Assuming the current mode is assistance mode:


(1) Short press  , Assist+1


(2) Short press  , Assist-1

4.3 Switch speed display

Long press  +  ,Switch speed display mode

4.4 Set/release 6Km/h cruise control, Switch headlights, ODO reset


(1) Vehicle stationary state, Long press  , Will enter 6KM/h cruise mode, release and exit cruise mode;

(2) Long press  , Turn on or off the headlights;



(3) When using the P16 menu interface , Long press  for 5 seconds to reset , ODO to zero.

4.5 On/off LCD display screen





If the current display screen is working, long press  to turn off the display screen, other wise turn on the display screen.

4.6 Switch the content of the multifunctional display area Short press  to switch the values of the multifunctional display area;



4.7 Set parameters

4.7.1 Long press  +  , It will enter the parameter setting interface, and the parameters that can be set include;

Wheel diameter (in inches)/Number of magnetic steels/LCD brightness/Under voltage points etc.(see settings: P01-P20) ;

4.7.2 In the settings interface, you can short press  , Alternatively, short press  to add or subtract a minimum precision unit value from the set value. You can also long press  , Or long press  to quickly modify parameters continuously:

(1) Short press  to switch to the next parameter;

(2) Long press again  +  , Exit settings and save parameters , If the operation is not continued, it will save the modified parameters and automatically exit after 8 seconds.

Dismantling and Charging of Electric Bicycle Batteries

1. How to disassemble the battery

Step 1: Find the keys located on the handlebar and remove them. If you cut them off the handlebars, be careful not to damage any wires.

Notice : Please keep your keys and their backup keys in a safe place. Once lost, they are difficult to replicate.



Step 2: Unlock the battery using the key. When holding the battery with one hand, separate the battery by turning the release switch below the rack.



Pedal Assistance System-PAS

Riding E- Bike with Pedaling Assist System (PAS) :There is a rotation sensor located near the crank which senses when the pedals are being used. The speed and power will vary as the level is changed. Just like riding any normal bicycle, lift up the bike-stand and sit on the saddle, putting one foot on a pedal and the other on the ground whilst you get ready to ride. After you check that ALL is OK, start pedaling, maintaining your balance. When you reach a certain speed, the electric motor will be activated automatically and it starts working and moving your bike! To stop the bicycle motor, just stop pedaling and the motor will stop automatically. To bring the vehicle to a halt, use the brakes

There are 5 levels of pedal assistance power from the motor. Using the “+” or “-” button you can select from Low power to High level. You can also press the “-” button to decrease to “0”, which will make the bike with no pedal assist power.

No Assistance - Normal Pedal Bicycle

If you do not press the power button on, then your bike will now act and feel like a normal bicycle. This is useful when you are feeling fit at the start of a journey or using your bike for exercise purposes. Power is still only a button press away.

Using the Throttle – If allowed legally

The throttle is available all the time the power is switched on at the left handlebar display. The throttle can be used whilst pedaling in any of the assist modes to give extra help as required. The throttle is not limited by the assistance level selected and is available to give up to maximum power at all times.

- Start pedaling a few cycles and then gently rotate the throttle (anticlockwise) to increase your speed. Whenever you use the throttle, please accelerate it only slowly and gradually. Don't try to get to the maximum speed instantly, which would otherwise put a severe strain on the electrical components and battery. Throttle assistance can also be used without pedaling.
- And it's a good practice that you should first pedal for a few cycles to start the bike firstly and then use the throttle, which could be good for the battery and motor.
- While starting or climbing, pedal as much as possible so that the battery power will not be drained severely. In general, more pedaling by you is as good for the service life of the battery and motor as it is for your health!
- A handy way of using the throttle is to pull away from junctions, or when starting on inclines as the rider will pull away easier and is less likely to wobble. It can also be useful when used to pull out and overtake slower cyclists smoothly and quickly.
- Care should be taken not to operate the throttle when mounting/ dismounting the bike. It is good practice to turn off the power before getting off or on the bike, also to hold one or both of the brakes to maintain stability. Holding the brake levers the power for the throttle and will stop the bike moving if the throttle is accidentally operated.


- The brake has power cut-off function; if either of the brake levers is pulled the power to the electric motor will be cut off automatically. It is not advisable to operate the throttle and then release the brakes as this will cause a power surge which may cause damage to the bicycle and/or risk of personal injury. Using the throttle at maximum level at all times will use more battery power than when using it with discretion.
- In confined traffic areas it is recommended that you turn off the power using either pedal or throttle only with right hand over brakes in case of emergency. We strongly recommend using pedal assist on all hills while not touching the throttle. This will maximize battery life.

PLEASE NOTE: The throttle control is not activated for some countries due to legal restrictions. Please refer to your dealer for help and advice.

About the Controller

The controller of e-bike come with over-current protection device, which means when you ride on steep uphill or against heavy winds, if the battery is drained severely, the over-current protection device will work, and then the speed will be reduced. And at this time, if you can help with some pedaling (if possible), that will be good for the electrical components.

The bike also come with low-voltage protection device, when the battery is nearly drained exhausted, if you still use the throttle to ride it, the battery will be badly damaged. If that's the case, the low-voltage protection device will work, and then the power will be cut off automatically.


 **Attention:** After the battery power is turned on, Do not turn ON until you are ready to move forward! As the bike starts, accelerate the speed smoothly; don't try to get to your maximum speed quickly, lest you should damage the electrical components. The switch of the electricity should be turned off when pushing, so you don't turn the throttle by accident, making the Electric Bicycle start suddenly and cause accidents. To help get the best distance out of your electric bike, refrain from much braking unless when it's a must for safety.

Battery level gauge:

When the battery power is getting low, battery gauge indicator will show in low level, and then you should turn OFF the power switch and use the pedals only to ride your e-bike just like regular bicycle (i.e. No electric assist). You will have to charge the battery when you get home or to an electrical outlet. You'll be able to enjoy the electric power assist again after it's fully charged.

Parking:

Shut the power off and pull out the key of the battery case while parking. Also, the power switch should be turned off when you push your bike so that you don't start up the motor by accident. Use a chain lock to further secure your bicycle when necessary.

 **Warning:** Don't expose your e-bike to sunlight or rain for extended periods, or some electrical components may behave abnormally. Consider covering these up whilst your bike is parked outside for any length of time.

CARE AND MAINTENANCE

ATTENTION: Before carrying out any sort of maintenance, turn off the power switch firstly.

Maintaining your bicycle ensures you'll get the most out of every ride and out of the entire life of your electric bike. How much of your bike's maintenance you can do yourself will depend on your knowledge, skills, experience and whether you have the necessary tools for the job.

Beyond this manual, it is good to consult your dealer for advice if you are at all unsure about any of the procedures described.

★ Before every ride

Mechanical safety checks. Check whether brakes and tires are in good condition. Use a fully charged battery. Visual inspection for damages.

★ Every 20 - 30 hours of riding (or MONTHLY)

- Squeeze the brakes and rock the bike to check for any looseness of the headset or brake mechanisms with each forward or backward movement. If any are loose, have your dealer check it.
- Lift the front wheel and turn handlebars left and right to check for tightness of steering. If tightness is detected it may be necessary to lubricate bearings and/or adjust the headset.
- Check and adjust the brakes, replace if worn out.
- Squeeze spokes in adjoining pairs between your thumb and index finger. They all should have the same tension. Re-spoke or true the wheel if necessary.
- Check cables for rust, kinks and fraying, replace them if necessary.
- Check bottom bracket for play and adjust if necessary.
- Check wheel bearings for play and adjust/lubricate if necessary

★ After 3,000 miles (5,000 km) (or YEARLY)

Hub motor and general inspection: We recommend you arrange to have a thorough inspection of your bike by a dealer. This includes opening up the hub motor to inspect and lubricate the gears if necessary.

★ Tyre Pressures

The tyres should be pumped up to within the range stated on the sidewall. This should be regularly checked as running with the correct pressures will ensure maximum range from the battery.

★ Adjusting the brakes

Correct brake adjustment will make the controls work easier and offer greater safety to the rider: The brakes are adjusted in a similar fashion to any standard bicycle. It is important for the brakes to work correctly and that the electric cut-off devices be in working order (Electric cable to the brake levers). Once the brakes have been adjusted, make the wheels turn freely to ensure there is no binding and check that when either of the brake levers is pulled, the motor stops working.

★ Lubrications

For long – life service the following parts of your ebike should be regularly lubricated every half year; Front axle; Chain; Rear axle: Freewheel, Front fork and other rotation parts .

For electrical parts, the user needn't clear them because they are lubricated in factory. If you find anything wrong, please go to the local customer service center for help.

★ Cleaning

The ebike should be cleaned with a damp sponge, taking special care not to get electrical parts wet (Battery connection, motor (rear axle), electric cables, handlebar controls, etc.). Always dry and buff with a cloth.

When clean your electric bike, do not use a steady direct stream of water from a hose. Use a cloth to avoid short circuiting any electrical components. Your electric bike has a durable finish and does not need waxed. Clean with a mild detergent and buff afterwards to restore its original shine if needed.

TROUBLE SHOOTING

Problems	Possible causes	Solutions
Turn on the power switch , the indicator light don't light up, the motor won't work, there is no power on the bike ...	1.Battery is completely discharged 2.The electric cable connecting the battery to the motor is loose 3. The fuse has blown	1. Charge the battery 2. Fix the cable firmly 3. Change the fuse
It appears to have power but motor will not engage	1.The brake lever are applied or pulled 2. Electric cable connection motor to controller get loose	1. Make sure brake lever is not depressed 2. Check brake wire connection at brake lever
The range (or travelling distance under power) is getting shorter	1. Insufficient battery capacity 2. The battery getting old and depleted 3. Braking frequently, riding uphill for long stretches or running against the wind continuously	1. Charge the battery fully 2. Change the battery 3. Use more pedaling!!!
The indicator doesn't light up when charging	1.The connecting cable is getting loose 2. The fuse burnt out 3. The charger problem	1.Insert the socket firmly 2. Change the fuse 3.Change the charger
Other troubles	Any problems in electrical components	Ask the local dealer or service center for help

PARAMETERS AND WARRANTY

Factory default parameters			
Numerical value	Factory default parameters	Numerical value	Factory default parameters
P01	2	P11	3
P02	0	P12	3
P03	48	P13	12
P04	10	P14	18
P05	1	P15	39
P06	26	P16	0
P07	1	P17	0
P08	25	P18	100
P09	0	P19	0
P10	2	P20	0

Warranty coverage			
Warranty item	Part name	Warranty period	Service content
Electrical components	Battery	12/month	If the battery decays by more than 60% or experiences power outages or other quality issues (excluding human factors), a new battery will be replaced free of charge within 6 months, and paid replacement will be provided from July to December. (No replacement for water ingress)
	Electric machine	12/month	Motor failure in normal use can not be used within 6 months free replacement of the motor, 7-12 paid replacement. (Water is not replaced).
	Controller/Instrument	12/month	Unable to recover due to malfunction, replaceable (self modified, not replaced due to human damage)
	Booster/accelerator/headlight/brake	6/month	Dysfunction can be replaced free of charge
Basic components	Frame	12/month	Natural cracking, desoldering, and fracture phenomena can be replaced for free
	Parking rack/pedal/flywheel	3/month	Failure that cannot be repaired can be replaced for free
	Tires/brake pads	7/day	Failure that cannot be repaired can be replaced for free
	Accompanying gifts	/	Not covered by warranty



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The interpretation of this user manual belongs to our company, and any changes will not be notified separately.