EW-54

Owners Manual

www.ElectricWheelstore.com

Foreword

Dear consumers,

Welcome to the big family of Electric Wheels, and thank you for your choice of Electric Wheels electric tricycle!

The electric tricycle is very popular with the customers for its perfect streamlined design, strong and reasonable structure, flexible and intelligent controller, powerful motor and maintenance-free battery. It is easy to operate, comfortable to drive. And what is more is that the electric tricycle is environmental friendly. So your right choice is the contribution to the green world.

Electric Wheels electric tricycle is an ideal light-duty transportation vehicle to solve your trouble of walking. It will facilitate your work and make you enjoy life more!

Please read this manual carefully before use. It will help you in operation and maintenance of the electric tricycle. Please do not use the electric tricycle before reading the manual carefully and getting acquaintance of its performances.

Finally, you are sincerely welcomed to provide your valuable comments and suggestions on Electric Wheels electric products.

Contents

Main Components

① the left handlebar ② the rear brake grip ③ the front light switch ④ the horn button ⑤ the power indicator ⑥the ignition switch ⑦the front brake switch ⑧the rolling handlebar

Main Technical Parameters

Main technical parameters of whole vehicle		Main technical parameters of motor	
L×W×H(mm)	1800×800×1120	Motor type	Brushless wheel hub motor
Wheel track(mm)	1400	Rated continuous output power（W）	250/350
N.W.(kg)	36	Rated output rotation speed（r/min）	240±10
Rated Loading Capacity(Kg)	150	Rated voltage(V)	36
Max. Forward Speed(km/h)	28	Rated output torque（N. m）	12
Distance per charge(km)	30-50	Controller	
Main technical parameters of storage battery		Under-voltage protection value(V)	31.5±0.5
Battery type	Lead-acid Maintenance-free battery	Over-current protection value(A)	15±1
Battery capacity(Ah)	12	Charger	
Nominal voltage(V)	36/48	Input Voltage	AC110V/220v 50Hz
Weight of battery pack（kg）	16.8/26.8	Max. output power(w)	110

Safety notice (Cautions)!

★Please do not ride the electric tricycle before you carefully read the Manual and know its performances, and do not lend it to those who do not know its operation.

★For you and others' safety consideration, please initiatively observe traffic regulations.

★In case of snow or rain or poor road conditions, please be careful to slow down the scooter before parking brake.

★The electric tricycle can work under snow or rain, but cannot go through water. Please ensure that the water level shall not be higher than the level of controller, circuits of motor, otherwise short circuit will be resulted and the electronic parts will be damaged.

★Please charge the battery to full capacity and put it in a cool and dry place if you do not use the electric scooter for a long time, and it is also recommended to charge at least once a month in this case.

Assembly and Setup

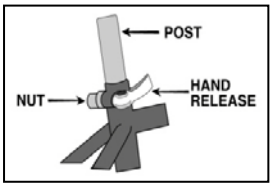
1) To make sure the alignment is correct, stand in front of the vehicle, using both legs to hold the front wheel in a straight-forward position. Use both hands to grab the handle bar and turn it into normal driving position (90 degree angle from the front wheel).

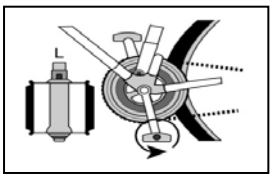
2) Check if the brakes are properly adjusted. The brake handles should stop short of touching the handgrip, when fully engaged. The rear brake cable can adjusted at the cable end bracket.

The front brake is adjusted at the end of the cable, at the saddle nut.

3) Sometimes the front wheel is taken off for the convenience of packing. So when the electric tricycle is taken off from the frame, please assemble the front wheel and adjust the handlebar at first.

4) The seat is adjustable; please adjust the seat post according to your height. The seat height is adjusted with either a quick release lever or a nut and bolt. Insert seat post to at least the minimum insertion line marked on the post. Tighten the adjusting nut by hand and move the hand release lever to the closed position.





5) Pedals are marked “L” and “R” on end. Screw pedal marked “L” into left side of crank.

6) Please check the battery wire connection to make sure the power supply of the electric tricycle.

Routing Operation

★Fix the properly charged battery into the battery trough on the body and lock it properly.

★Please firstly check whether the power is low, and you have to charge the battery before ride if it is low.

★Be sure the tires have enough air. A low tire pressure risk rim pinching (tube failure) and lowers your range (distance per charge). The tire pressure should be 2.1-2.5kg/cm²

★Verify the proper adjustment and function of the brakes.

★Insert the key into the power switch key hole and turn to the position ON to connect the power and then you can ride.

★ Hold onto the handlebars with both hands. Assume a well-balanced position. Your right hand will control the accelerator. Twist the accelerator slowly to avoid a sudden rush of speed forward. The speed of the electric tricycle will increase as you twist the accelerator more. Release the accelerator and apply the brakes to stop the tricycle. You will control the speed of the electric tricycle by using both the accelerator and the brakes. When the brake handle is squeezed it cuts power to the accelerator.

★The electric tricycle is 1:1 pedal assisted tricycle, when you turn on the power of the tricycle by the ignition switch, you can also pedal it to start the motor. Also if the battery runs out the power, you can pedal it like normal tricycle.

Battery Charge and Maintenance

★For a newly purchased electric tricycle, please charge the battery to full capacity before the first ride as the battery may become low after delivery, transportation and storage for long time. Please use electric drive after the battery performance is activated.

★The special chargers supplied or designated by our company must be used, otherwise the battery may be damaged, even there is a risk of fire.

Charging steps

★Please carefully check whether the rated input voltage of charger matches the voltage of power supply.

★The battery may be charged when it is fixed on the electric tricycle or when it is dismounted and taken to an appropriate place inside room

★Please firstly connect the output plug to the charging hole of battery properly. Then connect the input plug of charger to the AC power supply. When the power indicators and the charging indicators are on, the power is connected.

★It takes about 6-8 hours to charge the battery. The charging status can be checked through the charging indicator. When the charging indicator turns green, it is full.

Then the charger will be in float charging status. It is recommended to continue to charge for 1-2 hours after the charging indicator turns green in order to charge the battery fuller and extend the service life of battery. After charging is completed, please disconnect the power supply plug and then disconnect the plug to the battery.

★It is forbidden to connect the charger to the AC power supply when it does not charge the battery so as to ensure its service life and prevent other risks.

Advice on battery Maintenance

The consumers are kindly requested to pay attention to the following operation principles of battery protection.

★During daily operation, a 6-7 months new battery shall be charged to full capacity after ride for the sake of service life of battery. The batteries used for a long time shall be charged punctually whenever the power is low. The battery will automatically discharge if it is idle for over two months. In this case, it is recommended to charge the battery properly before use.

★To minimize electricity consumption, frequent braking should be avoid when facing uphill, excessive headwind, traffic congestion , so as to protect the battery and extend its service life.

★It is forbidden to charge excessively or insufficiently and discharge excessively so as to prevent battery damage during use.

★Regular deep discharge by every two months is recommended. Namely, long-distance riding until the under-voltage indicator lights to indicate electric power exhaust. Then switch off the power and do not continue to use it. Please only use it again after charging to full capacity.

★Please do not put the battery near open fire or high-temperature heat sources. It is forbidden to put the battery under the sunshine directly.

★Please store the battery in a cool, dry and well-ventilated place after you dismount the it from the vehicle if you do not plan to use it for a long time. The battery shall be charged to full capacity before storage and then recharged once every 20-30 days. The charger shall be put in a dry dust-free place.

Scheduled Maintenance

The electric tricycle should be checked from time to time. Refer to the maintenance schedule in the following chart:

Check • Adjust ◊ Lubricate Δ

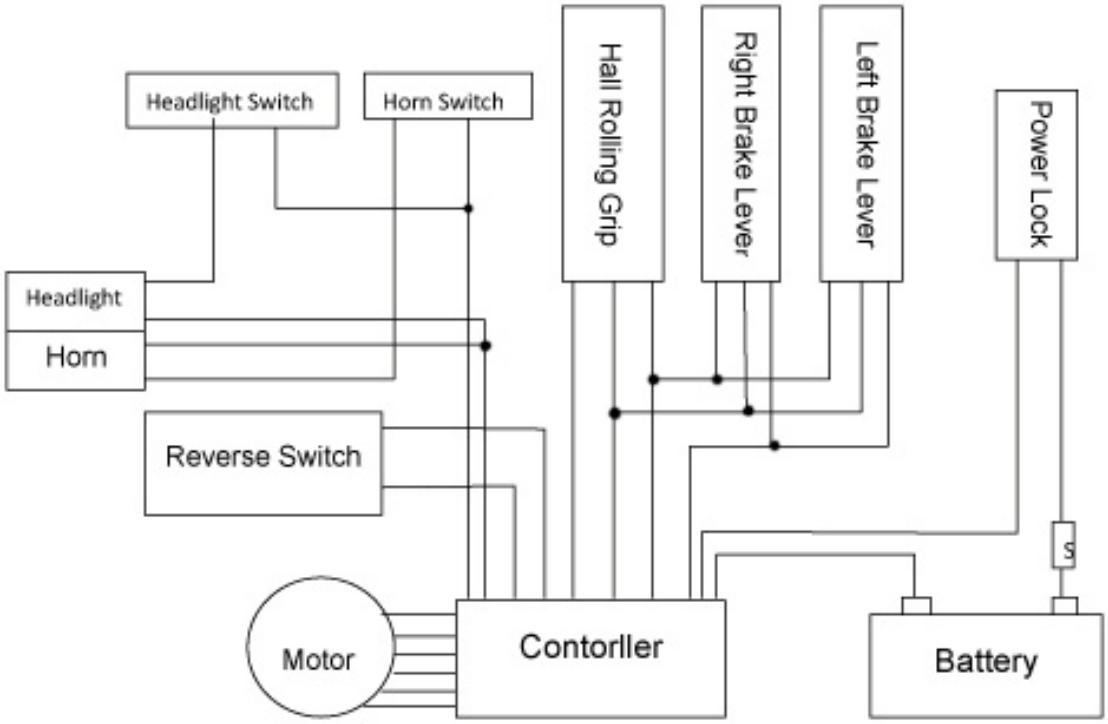
Parts	Daily	30 days	180 days
Bolts, nuts, screws etc- to ensure that nothing is loose.	•	•◊	•Δ
Footboard-to ensure it is not worn out	•	•Δ	•Δ
Tire pressure-to ensure good tire pressure	•		
Drive equipment-to ensure good position; not too loose, nor too tight	•	•◊	•Δ
Brake pads-to ensure it is not worn out		•◊	•◊
Wheel rim-to ensure it is not distorted		•	•
Steering Linkage-to ensure it is not distorted		•	•Δ
Front light, bugle-to ensure functioning properly	•		
Brake-to ensure it is working properly	•	•◊	•◊
Throttle-to ensure that it is working properly	•		
Steering system-to ensure operation is normal	•	Δ	
Wheel axle-to ensure if it is loose	•		Δ
Motor-to see if it is working properly	•	◊	◊

If you find problems that you cannot solve them yourself during your inspection and maintenance, please send your scooter to your servicing dealer for help. Never take apart or repair the bike by yourself. If it causes any problem and voids the warranty, a service fee will be imposed.

Faults and Troubleshooting

Faults	Causes	Troubleshooting
Sometimes there is no showing of electric quantity	1.Battery has no electricity 2.Fuse burned 3.Battery contacts is damage 4.Bad fuse or heat deformation	1.Recharging 2.Replace fuse 3.Replace contacts 4. Replace safety socket and fasten it.
Having power but the motor does not work	1.Loosened connection between the controller and motor 2.The brake grips does not revert 3.speed handle connection is off	1.make them tightened 2.Loosen the brake 3. Tighten the connections.
Abnormal motor sound	Low Voltage Faulty motor	Re-charging Replace or repair the motor
Charger does not operate or the green light is bright when start charging	1.Faulty fuse 2.Bad contact between the battery and charger plug 3.Cable for contacting battery is off 4. Controller shares cable with the power cable.	1.Replace the fuse (3A) 2 Plug in or replace the plug 3. connect the cable 4.open the power lock and recharging
Motor runs at max. speed after the power is turned on	1.Speed grips is bad （three cable disordered） 2.Controller damaged	1、Adjust the cable 2.Replace the controller(by distributor)
The battery fails to power to the design mileage after charging to full capacity	Handle bar suffers damp and rain , motor watered or short-circuit	Send to the franchised store for repair
	Short recharging time	Re-charging
	Aging battery or reduction capacity	Replace battery
	Low temperature result in bad performance of the battery	Do not use it temporary and place the battery indoor for recharging
	Long time no use	Re-charging
	frequent uphill, excessive headwind, frequent braking and starting	
	Insufficient air pressure within tire	Always blow up the tire sufficiently
	Mechanical faults	Readjustment
Tips: turn off the power and then press the button of the horn. When rotating the motor the horn was loud, it indicates the motor operates well.		

The wire diagram of S27



ELECTRIC WHEELS

Address: One Riverway, Suite 1700
Houston, Texas 77056
Tel: 713-840-6372
Fax: 713-583-9019
E-mail: info@electricwheelstore.com
Website: www.electricwheelstore.com