

# USER MANUAL



Zhejiang OPIN Science & Technology Co., LTD.

Please read this manual carefully before using

This manual contains service guide, please safekeeping

# Preface

Dear Customers,

Thank you for choosing "OPIN" mobility scooter, We all the staff at your choice express our sincere welcome and heartfelt thanks. We will take "innovation, safety, quality, service" as the purpose, allowing you to "buy the rest assured that with the time. " We will become your faithful partner and serve you with our honor .

This manual will introduce structure of scooter, accessories use, function, announcements and maintenance to you. Please read this manual carefully before using and understand the common use and operation,to ensure your safety.

As effectively as possible protect your scooter and make it easy to use. When you find that you couldn't solve some problems and need to replace parts, do please contact our local dealers freely.

Please read this manual carefully before using and obey the rules and instructions.

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## **Safety Points:**

1. Without reading the instructions and did not understand before walking vehicle performance, please do not hurry to use this product, not to lend will not operate electric vehicles use.
2. To you and others safety, please you when driving car instead of walking, be sure to comply with national and local road traffic laws and regulations.
3. Please do not more than walking car do big bearing, four-wheel single car can only take 1 person, otherwise may cause personal injury, and the vehicles to obtain warranty service.
4. Please do not attempt to go beyond the rating of the walking vehicle obstacle height, obstacle at low speed.
5. When uneven ground transportation, please be sure to slow down. Default of not wade (when water flooded or circuit of the controller, motor is likely to cause a short circuit and damage to electrical), under the rain and snow weather, please you wear a raincoat, ensure that water does not penetrate appliances!
6. Install the turn round of the vehicle, to a certain extent, increased the walking vehicle safety performance, please do not remove or replace at will, so as not to cause safety hazard!
7. Do not use other medical device connecting to walking on the car's battery pack, lest cause other medical device failure, instead of walking vehicle damage or personal injury.
8. Downhill and please slow down when turning on, do not back on the ramp, on more than the provisions of the walking vehicle maximum gradient.
9. Please use the accessory equipped with special charger to charge, do not use other charger, in order to avoid damage to the battery or cause other safety concerns.

## **Product introduction:**

OP -18 is developed by OPIN company, it is designed with advanced technology and high-quality material shaped. Multi-function design will provide customers with safety and comfort. Its ease of use, flexibility and convenience will make you love it, the product will be the most advanced technology and modern style integration, we believe that our design concept, intelligent operation mode will bring more convenience to your daily life.

Safety is priority for our company. Please read the instructions carefully before using and operate according to the instruction.

This manual is only applicable to Model OP-18.

If any problems when using this scooter, do please contact our local dealer for help.

We are not responsible for any property loss or personal injury caused by improper operation.



# Adjustments:

## A, Tiller Angle Adjustment

1. Tiller Angle can be adjusted according to the use of the driver to achieve the most comfortable angle. The lowest position of tiller angle is convenient for packaging, transportation and storage. Please don't use tiller angle when driving. (See figure A).



Figure A

2. How to adjust the tiller angle? At the bottom right hand side of the scooter you will find the angle adjustment handwheel. To adjust the angle, loosen the handwheel by turning anti-clockwise. Once the desired angle is achieved tighten by rotating clockwise. Ensure the tiller is fully secure before using this scooter.

## B, The Seat Adjustment

The seat has a lockable swivel base to allow easier transfers. Simply lift the lever circled and rotate the seat at the same time. Releasing the lever will allow the seat to lock in position. The seat locks in 45 degree intervals. Always ensure the seat is in a locked position before mounting or dis-mounting the scooter. The seat should always be locked facing forward whilst driving. ( See figure B)



Figure B



1. The backrest can be folded, easy to remove and put into car boot.
2. Loosen the handrail that is fixed at the bottom of knob, twitch the handrail inside and outside, fix the handle again, can realize the adjustment of handrail width.
3. Seat eight direction parts (45 °) fixed rotate, rotate the seat adjustment (arrow direction) outward pull handle, turn the seat 90 ° to loosen the handle can be fixed.

**Must not be allowed in the tiller and seat without a fixed drive!**

①



②



③



## The dashboard

Introduction to dashboard each key-press functions such as (figure C)

Power switch: responsible for switched on and off the power;

Horn button: press the horn sounded, loosen the silent;

Battery gauge: the battery residual capacity, and nine, the remaining three please recharge in time;

Speed knob: Clockwise to improve maximum speed and anti-clockwise decrease.

Handle operation function: control the scooter forward and backward.

(see figure C)



**figure C**



## **Gradient information**

More and more buildings are being built on different slopes, some of which have even been turned over. Driving on the road requires you to be very careful and have good handling skills.

Drive carefully when approaching downhill or uphill roads;

To ensure safe driving, keep your downhill speed to a minimum;

The height is usually not around the corner, please try to avoid these rough places, so as not to bump or scratch the body next to the armrest;

When going uphill, please keep a constant speed as far as possible. If you must stop, restart gently when opening, and then accelerate slowly. If the downhill speed is faster than you expect, use the braking system to bring it to a safe stop, then slowly release the brake to make it a safe downhill.

You may encounter other slopes that are not suitable for cars but not suitable for walking. As shown in the figure below.

**Warning!** When going uphill, do not enter the "Z" or back up. Please drive in a straight line instead of walking. This will reduce the possibility of turning uphill.

**Warning!** You can't risk driving downhill, such as those roads with snow, ice and wet.

**Warning!** On the hill, it is forbidden to adjust the mobility scooter to manual mode.

The tests were done with the highest seats and the fastest speeds. Your scooter's ability to climb depends on your weight and the slope of the road.

Warning! The slope of the road shall not exceed the scope specified in this manual, otherwise it may cause personal and traffic accidents, the company shall not assume any responsibility.

#### Navigation/electromagnetic brake

Turning at high speed may lead to a rollover accident. Factors causing rollovers include turning speed, control handle height, road conditions, sudden changes in direction, etc. If you want to turn, please slow down to avoid rollovers.

Warning! When you suddenly turn around. Please slow down. When you are speeding, please don't make a sudden turn. This will avoid tipping over.

## Electromagnetic brake

The scooter adopts electromagnetic braking. The electromagnetic braking will be released automatically when driving and will be closed automatically when stopping. The motor will be locked to prevent sliding. Please put the electromagnetic brake handle in the normal closed position. For a long journey or drag, please put the electromagnetic brake handle in the open position.

(as shown in figure D)



figure D

**Warning!** If the electromagnetic brake does not stop automatically, please turn off the power switch immediately! And contact the local dealer in time.

**Warning!** It is not allowed to load more than the permitted range of the scooter, so as not to cause damage to the electromagnetic brake, endangering the safety of life and property.

**Warning!** It is not allowed to drag the scooter when the handle of the electromagnetic brake is in the closed position, so as not to cause damage to the electromagnetic brake. In case of stoppage slip during normal use, please contact the seller freely.

## **The use of the battery**

1. Generally, the battery does not exceed 12 hours. It is recommended that the battery be used for 10-12 hours.
2. Under floating state (with green light), the battery will not be damaged even if it is charged for a long time.
3. Excessive discharge of lead-acid batteries will affect the service life of batteries. Batteries stored for a long time without use will lead to battery damage loss can also affect battery life.
4. Please avoid using "reverse" voltage drive (that is, the power supply is not in power state and the voltage is small after a period of time); The accumulative charging service time is more than 5km or so; If the battery is not used for a long time, it should be kept fully charged and recharged once a month.
5. There are professional departments for recycling used batteries. Users are not allowed to dispose of used batteries at will to avoid secondary pollution.
6. If the battery gives off odors, heats up, deforms or is used, stored or charged, and any abnormalities occur during transportation, the battery will be shut down and stopped.

## The charging step

When you just buy a new scooter, please charge it by electricity. Please follow the following steps for the first charge:

1. Please turn off the scooter, don't use the power switch.
2. Firstly, plug the charger into the charging outlet of the output walker, and then plug into the ac outlet at the power supply side of the charger (the input voltage should be consistent with the mains).
3. Then turn on the indicator light of the charger. The indicator light is bright red, indicating that the charger is charging.
4. Charge for 10-12 hours, indicating that the battery is basically enough, and then the charger will automatically enter the floating state.
5. In the floating charging state (green light is on), the floating charging time should not be less than 2 hours. Please ensure that the floating charging time is within 2-4 hours for the first purchase.
6. After charging, unplug the ac power supply plug, then insert the charger output from the walking car, and cover the outlet cover.

such as (figure E)



figure E

## **Mobility scooter driving program operation**

Dear customers, thank you very much for your careful reading and understanding of the structure and functions of the above scooter. Let us operate and drive your vehicle strictly according to the following procedures with a calm attitude:

- (1) the power consumption is exhausted before charging for the first time, but it cannot be exhausted. Battery power will not be too full, but also will not be too little, everyone in use, according to the business estimate, estimate probably can run the distance, in order to avoid power or power. The battery level of the scooter has been shown in the last grid, consider not riding, ready to charge.
- (2) check whether the electromagnetic brake lever is in the closed position (automatic brake check this position).
- (3) check whether the rotation direction is flexible.
- (4) after getting on the bus, adjust the seat position and the tiller angle according to the body's needs, and check whether the seat and the tiller angle are fixed firmly.
- (5) please insert the panel power button, turn on the panel power, turn on the status indicator light, indicator light and electricity meter to show the remaining battery power, and make sure the battery can meet your travel needs.
- (6) transfer the speed knob position (low speed), nearby slowly push the processing direction, according to your requirements can gradually turn the speed knob position, until the high speed, speed knob when please stop rotating motionless, now has reached the limit speed knob, will continue to damage the speed limiter, according to your media processing control range.
- (7) please release the operating handle, the scooter will stop automatically when it needs to stop, and the electromagnetic braking system will lock the gear box and not walk.

**Warning:** if automatic parking is not possible, please turn off the power switch immediately and contact the dealer or after-sales service!

- (8) when you do not use the scooter, please put it in a safe place, and pull out the key, other functions (if you need to go to the dashboard, please refer to the dashboard function manual).



## **Scooter repair, maintenance and storage**

To make the scooter safe and comfortable, you must do the following things regularly:

I, maintenance,

1. Check whether the wheel fixing bolts and nuts are loose. The wheel fixing nuts shall be removed from the hubcap for inspection; Once every three months."
2. Before piling, check whether the phase column is fixed firmly and whether the steel bowl is loose;
3. Check whether the seat is loose or swing before driving;
4. Battery performance is affected by the ambient temperature. Generally speaking, when the temperature is lower than 0°C, battery storage capacity may decrease significantly.
5. Check whether the electromagnetic brake conforms to the braking requirements. When walking, check the slope of the parking lot;
6. Please check the tire wear, if the tire wear damaged steel wire should be replaced with a new tire.

II, maintenance,

1. Usually do a good job in cleaning the scooter, please do not wash the scooter directly with water, wipe it with a wet cloth;
2. To develop a good habit of driving, do not do more than the vehicle allowed when driving;
3. Motor carbon brush should be replaced for a total mileage of 5000 km.

### III store

1. When the scooter is not in use, it should be stored in a dry and high place. Please avoid staying in a puddle or a seriously wet place;
2. When using scooters outdoors, please protect the scooters from rain;
3. When the scooter is not in use for a long time, please keep the battery fully charged after dust prevention, and keep charging once a week.



<b>The product name</b>	Onefun Electric car instead of walking	<b>The wheel size</b>	front wheel 9 inches rear wheel 9 inches
<b>Product model</b>	OP-06	<b>Product specification</b>	Pictured above
<b>The motor power</b>	250W	<b>Range</b>	28 KM
<b>Product voltage</b>	24V	<b>The largest bearing</b>	150 KG
<b>Speed (km/h)</b>	6-8 KM/H	<b>The product weight</b>	55KG
<b>Slope</b>	12°	<b>The controller</b>	Dynamic50A

## Common failures and troubleshooting methods

The controller contains a program for identifying problems and troubleshooting. When the diagnostician detects problems and errors, the buzzer on the controller will alarm.

Users can try the following methods to solve the forehead problem, if the problem still exists, please contact us or our dealer.

Buzzer number	Fault description	The controller response	commentary
1	Batteries to be recharged	The scooter can run, but it slows down.	To protect the battery from being damaged by excessive discharge, the controller will limit the battery when the battery output low voltage, can also increase the battery range, so that the user can charge the battery.
2	The battery voltage is too low	The controller failed and a warning was issued.	The battery is dead. If you drive for a few minutes. You can restore a little battery life. Short drives are allowed.
3	The battery voltage is too high	Mobility scooter could not start	Battery voltage exceeded limit. If the scooter is still charging at this time, unplug the charger. This can happen on a downhill slope, as the wheels tilt up the slope to drive the motor, turning it into a generator and charging the battery. But the charging voltage is too high, interfering with the controller. Please turn off the car instead

			of starting it. If necessary, slow down on descent. Charger failures can also occur.
4	Beyond the limit of flow time (15 seconds)	The scooter can't run due to problem of controller, then issue the warning	The slope is too steep, resulting in too much power. It is also possible that the motor short circuit or reduction gear stuck. The user must turn off the power and restart. If you cannot solve the problem, please contact the local dealer.
5	Electromagnetic brake lines	The scooter can't run due to problem of controller, then issue the warning	The electromagnetic braking circuit is short circuit or open circuit. Check whether the plug of the electromagnetic brake motor is firm. The coil of the electromagnetic brake may be wrong, check the connection is open or short circuit of the electromagnetic brake. The connection mode of magnetic brake is open or short circuit. If necessary, check that the four terminal plugs of the motor/electromagnetic brake are properly connected. If a fault occurs, the gear shift lever is not in neutral, check the electromagnetic brake line for short circuit. If the boot fails, check whether the electromagnetic brake line is broken.

			If you cannot solve the problem, please contact the local dealer.
6	The user key to open the power supply, shift lever is not neutral	The scooter can't run due to problem of controller, then issue the warning	Please check whether the shift lever is in neutral and make sure to turn off the power switch again after shifting. The shift lever may need to be adjusted. Check the transport connection.
7	The transmission problem	The scooter can't run due to problem of controller, then issue the warning	Transmission or its connection has a problem, check whether the short circuit or open circuit. Variable speed road may not have been the right setting. There is something wrong with the controller to detect the transmission to the voltage. If can't solve the problem, please contact the agent
8	The motor voltage fault	Controller to make the car broke down, then issue the warning	Motor or connection problem, check for short circuit or open circuit. There may be a malfunction inside the controller. Pass the motor from the controller through the socket, then turn on the power supply. If the controller is still flashing 8 times, the motor circuit inside the controller fails. If you can't solve the problem, please contact

			the local dealer.
9	The controller internal fault	Controller to make the car broke down, then issue the warning	Please contact with the local dealer.

### The OPIN mobility scooter warranty card

User name:	Id number:
Address:	Phone number:
Product name:	Serial number:
Purchase date:	
Warranty period: (except battery 6 months), other see instructions	
The agent name:	

The warranty scope statement

A, the parts warranty period is one year (from the date of purchase)

1. The controller
2. Motor, gearbox, brakes
3. The battery
4. The seat tube and seat hob parts
5. The frame (artificial damage is beyond the scope of the quality assurance)



