



**PULSE**  
Innovax

WT-100W6016A  
**Electric wheelchair**  
Instruction manual

# Preface

First of all, thank you for choosing our products and giving us trust.

The proper use and maintenance of electric wheelchairs have a great impact on the service life of wheelchairs, this manual will help you familiarize yourself with the operation of electric wheelchairs.

Please read this manual carefully before operation, improper use will lead to self-injury, injury to others or traffic accidents.

This manual contains its own operation, assembly methods and how to deal with any possible accidents.

This manual is applicable to the electric wheelchairs of the Master brand.

If the following symbols appear, be sure to read this manual carefully.

Warning Improper use can result in death or serious injury

Note that improper use will result in injury or damage to the electric wheelchair

This manual contains a "Daily Maintenance Checklist." Please place this manual in an appropriate position on the vehicle.

If anyone else is using the vehicle, please be sure to provide this book for reference and read it carefully.

Due to quality improvement or design changes, the articles and illustrations recorded in the operation manual of this manual may be slightly different from the actual part.

The Company reserves the right to make modifications for your understanding.

It is different from the actual car. Please refer to the actual car.

If you do not understand or have any problems, please contact the dealer or contact us as soon as possible.

Please fill in the warranty card truthfully, confirm the store name and seal, and keep the customer's copy properly.

Please contact the customer service center and return the "Warranty card" to us.

Any vehicle can cause injury if it is used incorrectly.

Careless driving may endanger your own safety and the safety of others.


Please follow our rules and use your wheelchair properly.

The electric wheelchairs produced by our company are for middle-aged and elderly people and disabled people, because of their weak or partially lost mobility, the use of electric wheelchairs can provide their energy saving tools, with the help of external help, to meet the needs of life.

The electric wheelchairs produced by the company are powered by rechargeable batteries, DC motors, and driven by the users themselves through the controller to change direction and adjust speed.

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Technology changes life and makes it more beautiful!



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# 1 Product Introduction

## 1.1 Product Introduction

Electric wheelchairs belong to Class II medical devices. It is mainly charged by the battery as the energy, DC motor as the power, by the user through the controller to change the direction and adjust the speed to drive. It is suitable for driving in the case of lower speed, better road condition and better slope. The user can operate the wheelchair by himself or let others push the wheelchair by hand.

## 1.2 Structural composition

The electric wheelchair is composed of front wheel, rear wheel, frame, armrest, straddle, control system, motor, battery box and other parts. See the picture below for details (the picture is for reference only, the details are subject to the actual object):



(Illustrated for example only)

## 1.3 Side structure composition



## 1.4 Scope of Application

It can be used for short distance travel for disabled persons and elderly infirm persons with mobility difficulties and weighing less than 150Kg. It must not be driven on the road of motor vehicles.

### note meaning

This electric wheelchair can only accommodate one person.

This electric wheelchair is designed for transporting people and cannot be used for transporting goods.

This electric wheelchair is not intended for use by persons who clearly have a physical or mental disability (such as impaired vision, etc.) that prevents them from operating the electric wheelchair safely.

## 1.5 Product Performance

### Main technical parameters

Main dimensions and Structural parameters	Expansion size: 103*65*101(cm)
	Fold width: 40 (cm)
	Seat width: 450mm
	Seat depth: 460mm
	Armrest height: 300mm
	Backrest height: 550mm
	Net weight: Approx. 25kg
	Load-bearing capacity: 150kg
	Front wheel size: 8 inches
	Rear wheel size: 12 inches

Performance parameter	Drive motor: See motoridentification	
	Battery: Lithium battery (voltage 24V, capacity optional)	
	Charger: Optional according to battery capacity	
	Maximum output current of the controller	35A
	Theoretical driving distance km	≥20
	Max speed km/h	6
	Static stability	≥9°
	Dynamic stability	≥6°
	Braking performance m	≤1. 5
	Minimum turning radius m	≤1. 2
Tires	High stretch rubber tires	

## 2 Safety precautions

### 2.1 Main safety features of electric wheelchairs

Classification by electric shock protection type: internal power supply class.

Classification by Shock Protection Type: Type B Application Section.

Classification according to the degree of protection against fluid intake: IPX3.

Classification by degree of safety for use with flammable anesthetic gases mixed with air or with oxygen or nitrous oxide: Non-AP /APG type.

Classification by operating mode: Continuous operation.

Rated voltage: d.c.24V

No application part with protection against defibrillation discharge effects.

There is no signal output part or input part.

Non-permanent installation of the device.

### 2. 2 General driving precautions

To prevent injury and/or damage to the wheelchair, make sure that no objects and/or body parts are stuck in the rim of the drive wheel.

Fasten your seat belt. Do not drive with either wheel in the air.

Keep your hands on the armrests to control the wheelchair and make sure there are no obstacles ahead.

Before you get used to driving, practice in a safe and wide area such as a park.

Practice driving fully in a safe place, remember the feeling of marching, stopping and turning.

When you first come out of the road, go with your companion and walk as long as it is safe to do so.

Follow the rules of the road as a walker, and do not think of yourself as a driver.

Keep to the right on sidewalks and zebra crossings. Keep to the right when there is no pedestrian traffic.

Do not drink and drive.

Please drive smoothly, slow down when turning, avoid snaking and make sharp turns.

Make sure there is plenty of room on both sides of the wheelchair when going through doors, hallways, etc.

When using pneumatic tires, please maintain the specified tire pressure, abnormal tire pressure may cause instability on the ride, or excessive current loss.

Do not use an electric wheelchair as a seat in a car or other vehicle..

### 2.3 Avoid walking in the following situations or places, please go with your escort

Walking in bad weather (rainy days, fog, strong winds, snow, etc.).

In case you get wet, dry off the water immediately.

Driving on rough surfaces (muddy, snow, sand, gravel, etc.).

High traffic road surface.

Shoulder roads on side ditches, ponds, etc. without fences.

Cross railroad forks.

If you have to cross a railway track, pause at the fork to make sure that the left and right sides are safe and that the rails do not catch the wheels, so that you are traveling at a right Angle to the rails.

This train is for personal use only. It is not allowed to carry other people or things, and it is not allowed to be used for traction.

#### 2.4 Precautions for going up and down hills

Please avoid walking on steep slopes, inclines, high steps, ditches, etc.

Do not walk on steep slopes, and the possible slope Angle should be less than 9 degrees.

And handle with special care.

Go straight up and down hills. Do not reverse on ramps.

March at the lowest speed when going downhill.

Avoid going sideways or diagonally on steep inclines.

Do not drive on steps. Also avoid crossing high steps. When crossing steps, be sure to travel at a right Angle to them.

Avoid crossing wide ditches.

When crossing a ditch, be sure to travel at a right Angle to the ditch.



Warning

Do not set the wheels to manual mode when going up and down a downhill section. When you reach a traffic junction and the product fails, please immediately ask passers-by for help, and immediately change to manual mode, push away from the scene, or evacuate to a safe area.

#### 2.5 Precautions for escorts

Please make sure that the user's feet are securely located on the foot pedals and that the clothing will not get caught in the rim of the driving wheel.

If the slope is large or the ramp is long, the user should change the wheelchair to manual mode and be pushed forward by the escort to ensure safety.

#### 2.6 Other precautions

If repair or modification is necessary, please contact the customer service center. It should not be reformed by itself, which will become the cause of accidents or failures.

In order to maintain the earth's environment, abandoned cars or batteries that can not be used, do not casually discard, you can contact the local electric vehicle maintenance point, replace the old with the new, make up the difference.

Do not put the wheelchair in a place with heavy moisture. When storing or parking the electric wheelchair outdoors, cover it with a wet cover for protection. For example, put the wheelchair aside in the shower. Dry off immediately if wet.

#### Attention

Change the assembly or material of the car without the approval of the company.

Do not add any weight to avoid imbalance.

When someone is sitting on the car or the clutch is not in manual mode, do not use other vehicles to pick up or push the car.

If there is any abnormal sound, please contact the company immediately.

#### 2.7 Service Life

The service life of this product is 5 years after the factory date. Please use it within a limited period. Please do not use it beyond this period to avoid accidents!

Production date: see certificate.

#### 2.8 Electromagnetic Compatibility

Use wheelchairs away from strong magnetic fields and large inductive electrical equipment, such as radio stations, television stations, underground radio stations, radios, and mobile phone transmitting stations.

Pay attention to whether there is a source of electromagnetic interference nearby, and try to stay away from and avoid electromagnetic interference sources, wheelchairs should avoid electromagnetic interference.

#### Attention

Electric wheelchairs meet the relevant requirements of YY0505 and GB/T18029.21 standards for electromagnetic compatibility;

The user should be installed and used according to the electromagnetic compatibility information provided by the random file;

Portable and mobile RF communication equipment may affect the performance of electric wheelchairs, avoid strong electromagnetic interference when used, such as close to mobile phones, microwave ovens, etc.;

Guidelines and manufacturer's statements are detailed in the appendix.

#### Warning

Electric wheelchairs should not be used close to or stacked with other equipment, and if they must be used close to or stacked, they should be observed to verify that they can operate normally under the configuration they use;

The use of accessories and cables other than those sold as spare parts for internal components by the manufacturer of the electric wheelchair may result in an increase in the emission of the electric wheelchair or a reduction in immunity.

### 3 Wheelchair use

#### 3.1 The opening of the wheelchair

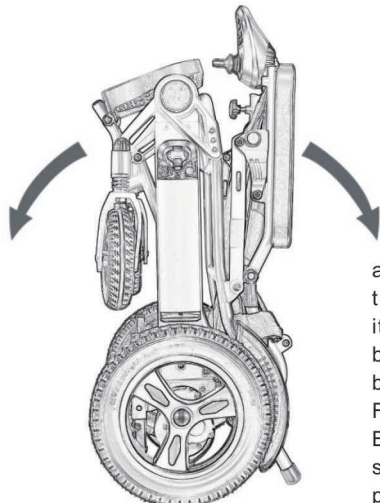


Figure 1  
(The illustration is for example only)

Figure 2

- a) Hold the backrest with one hand and press the seat cushion with the other hand to push it away forcefully, as shown in Figure 1;
- b) the folded block under the backrest should be clasped when fully unfolded, as shown in Figure 2.

Before using the wheelchair, you must make sure that the folding block is pressed into place, otherwise there is a risk of folding during use!

#### 3.2 Folding of the wheelchair

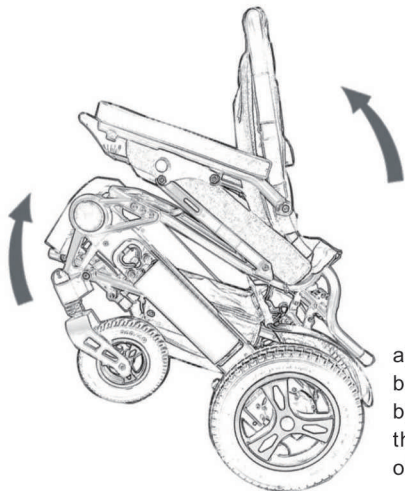


Figure 4 (The illustration is for example only)

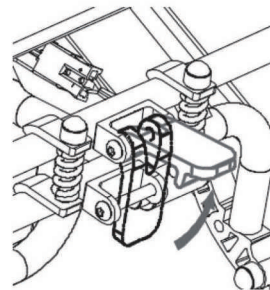
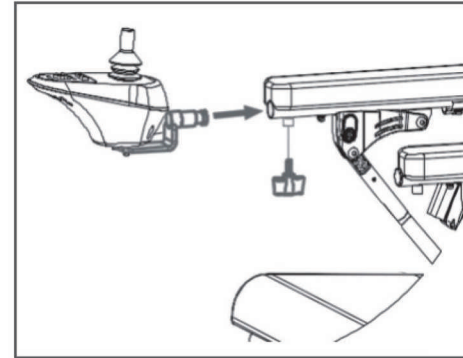


Figure 3

- a) First pull apart the folded block under the backrest, as shown in Figure 3;
- b) Hold the backrest with one hand and pull the seat cushion firmly together with the other hand, as shown in Figure 4.

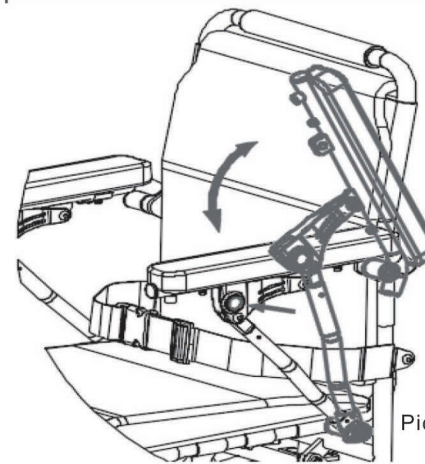
#### 3.3 Controller Installation and Adjustment



Picture 5

- a) Insert the controller into the armrest tube first and pay attention to the control. The control should be placed flat, as shown in Figure 5;
- b) lock the knob again,

#### 3.4 Opening and closing of handrails

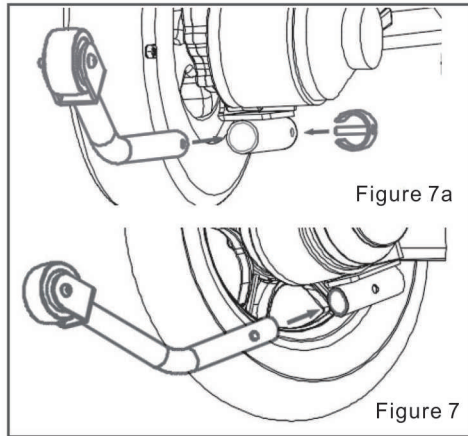


Picture 6

- a) Press the handrail button with one hand and lift the handrail up with the other hand, as shown in Figure 6;
- b) To close the handrail, press the handrail directly down into place.

(The illustration is for example only)

### 3.5 Installation and removal of the anti-tipping device



**E-buckle style:**  
 a) As shown in Figure 7a, insert the anti-reverse tube into the bottom tube of the frame, And align the anti-reverse hole;  
 b) Insert the E-buckle;  
 c) Make sure the anti-tip is securely installed.

**Snap style:**  
 a) As shown in FIG. 7b, press the anti-toppling snapper to install or remove the anti-toppling device;  
 b) Make sure that the anti-toppling device is securely installed.

### 3.5 Installation and removal of the anti-tipping device



As shown in Figure 8, stick the battery on the wheelchair;  
 Align the battery with the slipway, gently push to the bottom, Make sure the battery case is securely secured;  
 Connect the power interface of the controller to the battery output surface as shown in Figure 9. Do not reverse to remove the battery!



Figure 8  
 (Illustration is for example reference only)

### 3.7 Manual Electric Mode Conversion

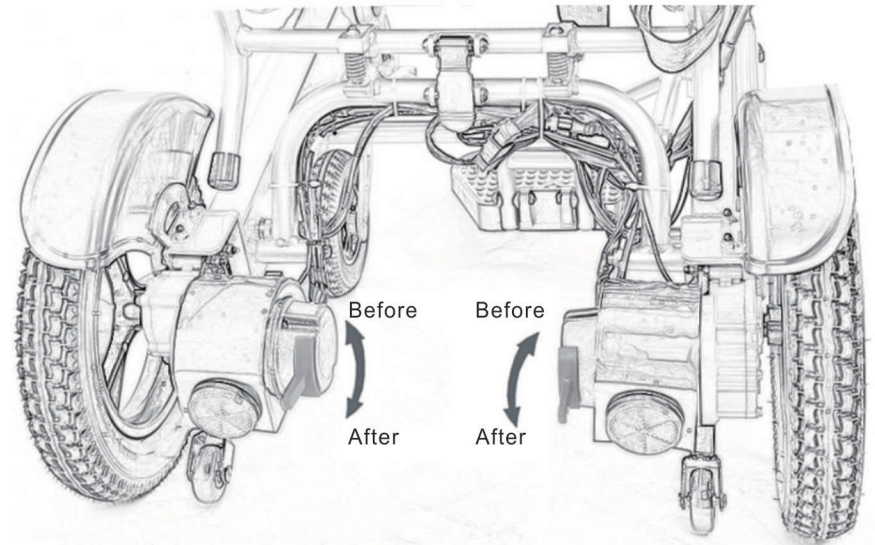


Figure 10

#### Built-in clutch type

- Turn off the power of the wheelchair, and according to the label on the motor, turn the red wrench (Figure 10) to switch the manual electric mode of the wheelchair.  
 Note: In manual mode, turning on the controller will alarm. Turn the motor back on after it is in electric mode
- The brake system is electromagnetic brake. Release the controller rocker while the wheelchair is in motion. Automatically apply the brakes.

#### Warning

When switching manual mode to electric mode, please make sure that both the left and right side clutch switches are in electric mode, if either side is in manual mode, the wheel chair will be in danger of rollover. Do not set the wheelchair to manual mode when going up or down a hill.

## 4 Charger and battery

### 4.1 Requirements for a charger

The charger is used when charging the internal power supply of the wheelchair. This product cannot be used when charging the wheelchair. The charger should meet the following requirements:

- a) Parameters: Input voltage: AC 220V, output voltage: 24V/DC, output current: 2-5A
- b) The end plug of the battery box should be a round three-hole plug, and the protection level of liquid intake is IPX1
- c) The charger selected should meet the requirements of GB 4706, 1-2005 and GB 4706, 18-2014

The charger is used to charge the wheelchair. The main plug of the charger is connected to the power supply, and the other charging connector is connected to the controller charging interface.



Charging method 1: Figure 11  
Follow the following instructions to complete charging:  
a) Check that the charger slot is not blocked;  
b) Please plug the charging adapter cable into the battery port  
Connect the other side of the adapter cable to the charger plug  
Charge on battery

Figure 11

Driver charging port  
Charging Method 2:  
Plug the output plug of the charger to  
Controller charging interface  
(Figure 12);



Figure 12

### ⚠ Attention

Do not unplug the battery before charging is completed, as repeated use of the battery in the undercharged state will shorten the battery life. Therefore, try to fully charge the battery.  
After charging, the charging indicator will change to "green". Do not stop charging before the charging is finished.  
After charging, turn off the charging power and remove the plug, if the wire is not removed, the battery will slowly discharge, but the maximum charging time should not exceed 24 hours, there will be danger of overcharging.

### ⚠ Attention

Please observe the following rules to avoid danger when charging:  
This product does not include a charger, please choose a charger that meets the national standard.  
The charging place should be kept in a good ventilated environment, and do not be exposed to sunlight and damp environment for charging.  
Do not cover any tarps or items while charging. Do not charge in an environment below minus 10 degrees or above 50 degrees, when the charger will not function well and easily damage the battery.  
Precautions should be taken to prevent liquid intrusion when the charger is charging.  
Do not place the charger over flammable objects for charging, such as fuel, pedals or seats.

### Warning

Keep away from the flame while charging, the flame will cause the battery to catch fire or explode.  
Do not smoke while charging, as hydrogen will be produced while charging, and charge in a well-ventilated place.  
Do not install or remove a charging socket when your hands are wet or when the socket is wet. This will cause an electric shock.  
Do not use electric wheelchairs or sit on electric wheelchairs while the charger is charging, to prevent unpredictable injuries to the user.

### 4.3 Battery maintenance

### Warning

There is a danger of an explosion when replacing a battery incorrectly, only use the same battery or the same type recommended by the manufacturer, and care should be taken that the battery polarity should be correct.  
The point of extending the life of the battery is: often charge, so that the battery is full of power, if the wheelchair is disabled, it is best to have enough batteries for use, such as long-term disuse, it is best to charge once every half month.

## 5 System Diagnosis

When something abnormal occurs in the electric wheelchair, the controller will issue a fault indication, which may occur in the motor, brake, battery, wire connection, and the product itself.

### 5.1 Controller fault display and solution

If there is an error in the controller, the power indicator light on the panel will blink repeatedly. The blinking light indicates the type of error.

Diagnostic No.	Diagnostic instructions	Recommended disposal
Flash 1 time	Extremely low battery	It is best to charge the battery as soon as possible, or the battery may be broken and cannot be charged.
Flash 2 times	Left motor failure	Left motor is in poor contact or the wire is disconnected. Detect the left motor, connection device, and motor wire for looseness.
Flash 3 times	Left brake failure	The left brake is in poor contact or the brake power off switch is damaged. Check the left brake device, connections, and wires for loosens, and the brake switch for damage or poor switch contact.
Flash 4 times	Right motor failure	Poor right motor contact or disconnected wire. Inspect the motor motor, connection device and motor wires for looseness.!
Flash 5 times	Failure of the right brake	The right brake is in poor contact or the brake power off switch is damaged. Check the right brake unit, connections, and wires for loosens, and the brake switch for damage or poor switch contact.
Flash 6 times	The controller is in overcurrent protection state	Check the brake, motor transmission mechanism is stuck phenomenon, check the motor line is short circuit phenomenon.
Flash 7 times	Rocker failure	The joystick is out of position or the joystick wire is broken, or the connector may be loose.
Flash 8 times	Controller	Consult a repair vendor.
Flash 9 times	Controller	Check with a repair vendor.

## 6 Controller

### 6.1 Control Panel



(For reference only, there are differences in controller wiring between different configurations)

### 6.2 Power on/off

Turn on the power: press the switch button, the battery meter indicator light will light from left to right in order, and the buzzer has two sounds of "beep" "beep", the controller is powered on normally.

Turn off the power: press the switch button again, all the LED indicators will be off, and the controller will be off.

### Attention

If the power is turned on when the rocker is not in the middle position, the "Rocker is not in the middle when the power is turned on" error message will be displayed. Drop the joystick and return it to the center position, and the error will disappear. This function is to avoid driving without the joystick in the center when the controller power is on or the disable condition has been removed. This function prevents sudden or unexpected movements of the power wheelchair.

#### Warning

If the error persists after removing the rocker, this component may be damaged. If damaged, do not use this product and should consult the repair manufacturer.

#### Warning

In some emergency situations, you can turn off the power by pressing the power button.

### 6.3 Sleep Mode

If the rocker does not move, after 20 minutes, the product will automatically turn off the power and enter the sleep state. Press the power button to wake up the system from the sleep mode.

### 6.4 Adjustment of driving speed

According to the user's habits and environment, the user can adjust the maximum speed of the electric wheelchair. The selected maximum speed will be displayed on the speedometer, and the speed can be adjusted by using the deceleration and acceleration buttons.

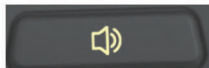


The speed is divided into five levels, from the maximum speed to the lowest speed.

Speed 1: the maximum speed is not less than 2.5Km/h

Speed 5th gear: Maximum speed is not more than 6.0Km/h

### 6.5 Horn Button



When the horn button is pressed or reversed, it will beep, alerting the front and back of the car to prevent accidents.

### 6.6 Battery indicator



The battery level indicator is used to show that the power of the electric wheelchair has been turned on, and the battery level indicator can also show the current predicted value of the remaining battery power:

When the LED light is fully on, it means that the battery is fully charged. Only the yellow or red LED lights up

When, it means the battery needs to be charged. Before long-distance driving, it is best to charge first, if only the red LED light, on behalf of the battery is extremely insufficient. It is best to charge it as soon as possible.

## 6.8 Lighting Mode Description (Figure 13)

a) Flashing alarm, press any turn signal button once + horn button, the four turn signals will be synchronized on and off, flashing will be infinite, if off, you need to press the horn button twice.

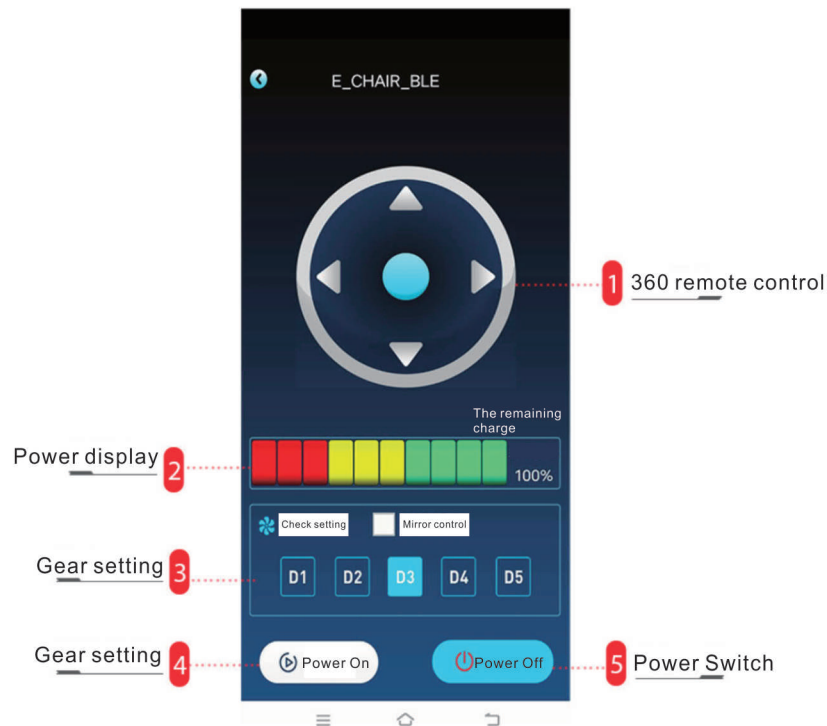
b) When it is steady on, press any turn signal button once + horn button twice, when the four turn signal is on for a long time, when it is steady on, if it is off, press horn button again.

## 6.9(1) Remote control of mobile phone

a) 360° remote control: push forward for forward driving, push back for reverse mode, push left for left steering, push right for right steering.

b) Power display: green 100% indicates that the battery is fully charged. Only when the yellow or red LED light is on, it means the battery needs to be charged. Before a long drive, it is best to charge first, if only the red LED light, it means that the battery is extremely low. It is best to charge it as soon as possible.

c) Gear control: Press the gear setting key to select the 5 speed (choose the speed according to your travel road conditions)



## 6.9 (2) Wireless controller remote control



1, deceleration key: the car speed adjustment, press the slowest speed to reduce one gear.

2, horn key: press, wheelchair horn sound once.

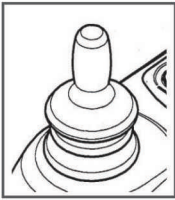
3, signal indicator: constant link status (Ask Peng for a bundle)

4, 360° remote pole: forward push for forward driving, back push for reverse mode, left push for left turn, right push for right turn.

5, acceleration key: the car speed adjustment, click the fastest speed to increase one gear.

6, power switch: wireless remote control handle open or close use.

### 6.9(3) use of the rocker



The movement direction of the rocker can direct the movement direction of the electric wheelchair. The movement of the rocker determines the speed of the electric wheelchair in that direction.

#### Note

For the sake of safety, the controller will perform system self-check when the product is turned on, and the lever movement range will be ignored. The product's speedometer flashes to indicate a possible "Power on without rocker in middle" error. Therefore, please wait 2 seconds before starting the wheelchair. Just drop the rocker and put it back in the middle, and the mistake will go away.

## 7 Wheelchair maintenance and self-examination

The use, storage, regular maintenance, upkeep, and cleaning of an electric wheelchair can have a big impact on the life of the wheelchair.

### 7.1 Regular Maintenance

The following maintenance activities are required to ensure that your wheelchair is in good condition:

#### a) Before each use

Check the tires for visible damage and/or soiling. Remove any dirt that could impair the movement of the tires. Replace tires when they are damaged.

Check the tire pressure and inflate if necessary (for inflatable tires only).

Check the motor brakes, parking brakes (if any) and replace them if necessary.

Check that the hand-electric mode switch is working properly.

Check that all screws are tight.

After confirming that the power is connected, turn on the controller, check the controller meter, and if the battery is low, turn off the controller and charge the battery. It is recommended not to charge the battery when it is completely empty, so as not to reduce the battery life.

#### b) Every 2 months

Tighten removable moving parts (such as handles, straddles, armrests, etc.).

Check your inflatable tires regularly for wear and change them when the tread depth is one millimeter.

Check the charger and controller connectors.

#### c) every 6 months

Check the wheelchair drive performance.

Check the mechanical properties.

Clean the wheelchair

Check the function of the wheels

Tire pressure to confirm that

the charger is working properly.

### 7.2 Wheelchair Cleaning

Please wipe and clean the electric wheelchairs regularly. You can clean the wheelchairs with household laundry detergent.

#### Note

Before any cleaning, remove the battery to avoid involuntary conduction of the current.

#### 7.2.1 Cleaning of seats and backrests

The seat and backrest should be cleaned as follows:

Clean the seat and backrest with a cloth dampened with warm water.

Use a mild clothing detergent to remove stubborn dirt.

Stains can be removed with a sponge or soft brush.

Do not use a strong cleaning solution (organic solvent), and do not use a hard brush.

Do not steam clean.

#### 7.2.2 Cleaning of other parts

For parts that are in frequent contact with users, such as armrests and controllers, please only use a clean and slightly wet soft brush or soft sponge to wipe (do not use organic solvents to wipe).

During the use of the patient, routine cleaning once a week, body fluids, blood contamination, should be wiped with 250mg/L chlorine-containing disinfectant for cleaning and disinfection.

**7.3 Maintenance check** For your safety please be sure to have a full and thorough inspection of the wheelchair once a year, in principle we recommend checking it once a year, or at least once before resuming use:

Visually inspect the frame parts for plastic deformation, cracks and functional impairment.

Visually inspect all plastic parts for cracks and brittle points.

Visually inspect all housings for damage and screws must be securely secured.

Visually inspect the surface paint for damage (risk of corrosion).

Check the plug connector for corrosion or damage, as it can affect the efficiency of the electronic device.

Check the use of the tires (rotational flexibility, tire condition, air pressure under inflation, etc.).

Check the handrail, pedal function (locking, load, deformation, wear due to load), Check the use of other removable parts (e.g., seat belts, battery housings, accessory backrest/seat cushions, etc.)

Check cables (in particular: crushed, worn, cut, visible insulation of inner conductor, visible metal grain, kinks, lumps, outer bushing color changes).

The power cord should be placed securely to avoid mechanical stresses and strains such as shearing and crushing.

Check the drive function of the wheelchair (trial run: noise, braking, forward, turning, backward, horn, etc.).

#### 7.4 Wheelchair failure and self-examination

The following list will help you troubleshoot your power wheelchair

Failure phenomenon	Failure phenomenon
Complete loss of power the indicator light on the controller disappears	The electric wheelchair does not start the battery plug is not connected (the battery does not touch) the battery is not charged (fully discharged)
The electric wheelchair stops moving as soon as it starts	Wheelchair in manual mode release the controller rocker, restart the controller, boot after 2 seconds to start the wheelchair motor failure
Battery failure	Check that the battery and battery plug are properly connected for recharging and, if necessary, replace the battery
The battery won't charge	The charger plug is not connected correctly, the battery is damaged, replace the battery charger failure, replace the charger

If you still can not resume use after the above steps, or have any questions while operating the above actions, please contact the customer service staff immediately.

#### Note

The controller has a built-in diagnostic device that can monitor the controller, motor and battery. If any problem occurs to these components, it will appear on the controller. For details, please read the controller self-test diagnostic list in this manual.

#### 7.5 Warranty Matters

##### 7.5.1 Warranty Contents

Your electric wheelchair is carefully tailored for you. If there is any material or manufacturing defect, please repair it free of charge and maintain it for life according to the period and conditions indicated in this warranty card.

##### 7.5.2 Warranty does not apply

May be deemed to have no functional impact on the sensory phenomenon. Wear and wear or discomfort due to changes over a period of time (natural fading and deterioration of coating surface, plating surface, resin, etc.)

##### 7.5.3 Discomfort due to the following matters is not suitable for warranty

Failure to carry out regular inspection and sorting as designated by the company. Improper or wrong maintenance and finishing.

Use operation methods different from those shown in the operating instructions and overload use (overstaff, bearing capacity, etc.)

Without permission of the company, without modification.

External factors such as soot, medicine, bird droppings, acid rain, flying stones, metal powder, etc. Typhoon, flood, fire, earthquake and other natural disasters and accidents.

##### 7.5.4 Fees as shown below shall not be borne Replacement and replenishment of consumables, oils, etc. (tires, fuses, various plastics, lubricants for glass products, and other such things).

Expenses for inspection, adjustment, feeding, cleaning, etc.

Expenses for regular inspection and finishing as specified by the company.

Alteration without permission of the Company. Repair expenses incurred outside the Company's special repair center or after-sales service network.

##### 7.5.5 The customer shall comply with the following matters

The following are the obligations that the customer must comply with in order to accept the guaranteed repair:

The correct operation shall be carried out in accordance with the operation method and style as shown in the operation manual.

Perform routine checks.

Carry out the inspection and arrangement specified by the company.

7.5.6 when the warranty is accepted, please take the electric wheelchair and the warranty card to our after-sales service center and apply for the warranty.

7.5.7 Environmental protection in order to protect the environment, if any part of this product is damaged or scrapped, please send it back to our factory or submit it to the department stipulated by the state for destruction.

Do not dispose of it arbitrarily.

7.5.8 warranty and validity

This warranty card for electric wheelchair shall be sealed and put on record as of the date of purchase.

This product is guaranteed for 1 year under normal operation.

Consumables (such as: Battery, seat back pad, tire, guard plate, armrest pad, etc.) are not covered by the warranty.

**Attention**

Please repair free of charge within the time stipulated in this warranty card. If you feel unwell after the expiry date, you will have to pay for the repair. Please contact our customer service department for the standard of repair.


**8 tags used in graphics, symbols, abbreviations and other content interpretation**

B type application section

IPX3 The protective degree of the whole machine against harmful liquid intake is IPX3

Warning/caution

Class II equipment

 Read the manual

Maximum user weight

9 transport and storage conditions

9.1 during transportation and storage, the product shall be properly placed in accordance with the instructions given by the outer case display arrow.

9.2 during transportation should be moisture-proof, avoid light, away from heat source.

9.3 products should be kept out of the rain and placed outdoors or in damp places during storage to prevent electrical parts from being damaged easily by moisture.

9.4 storage conditions:

ambient temperature -40 ° C ~ + 55 ° C,

relative humidity ≤80% ,


atmospheric pressure 86 kpa ~ 106 kpa.

Appendix A EMC guidelines and manufacturer’ s statement

Recommended isolation distance between portable and mobile RF communication devices and electric wheelchair vehicles					
Electric wheelchairs are expected to be used in electromagnetic environments where RF radiation is controlled. According to the maximum output power of communication equipment, e-wheelchair buyers or messengers can prevent electromagnetic interference by maintaining the minimum distance between portable and mobile RF communication devices (transmitters) and the e-wheelchair as recommended below.					
Rated maximum output power of the transmitter /W	150 kHz ~ 80 MHz — $d = 1.2\sqrt{P}$	80 MHz ~ 800 MHz (charger) $d = 1.2\sqrt{P}$	800 MHz ~ 1.0 GHz (charger) $d = 2.3\sqrt{P}$	26MHz ~ 800 MHz (wheelchair) $d = 0.2\sqrt{P}$	800 MHz ~ 2.5 GHz (wheelchair) $d = 0.4\sqrt{P}$
0.01	Not applicable	Not applicable	Not applicable	0.02	0.04
0.1	Not applicable	Not applicable	Not applicable	0.06	0.13
1	Not applicable	Not applicable	Not applicable	0.2	0.4
10	Not applicable	Not applicable	Not applicable	0.63	1.26
100	Not applicable	Not applicable	Not applicable	2	4
Recommended isolation distance D for rated maximum output power of transmitters not listed above, in meters, can be determined by the corresponding transmitter frequency formula, where P is the transmitter manufacturer provided by the maximum output power rating, in Watt (W) units. Note 1: at 80mhz and 800MH frequencies, the formula of higher frequency range is adopted. Note 2: these guidelines may not be appropriate for all situations where electromagnetic propagation is affected by absorption and reflection by buildings, objects and the human body.					

Guide and manufacturer statement-electromagnetic immunity			
The electric wheelchair is expected to be used in the following specified electromagnetic environment. The purchaser or user of the electric wheelchair shall ensure that it is used in such electromagnetic environment			
Immunity test	IEC60601、GB/T 18029. 21 Test level	In line with the level	Electromagnetic environment-a guide
Electrostatic discharge (ESD) GB/T 18029. 21 GB/T 17626. 2	$\pm 6$ kV Contact discharge $\pm 8$ kV air discharge	$\pm 6$ kV Contact discharge $\pm 8$ kV air discharge	The floor should be wood, concrete, or tile, and if the floor is covered with synthetic material, the relative humidity should be at least 30%
Group of electrical fast transient pulses GB/T 18029. 21 GB/T 17626. 4	$\pm 1$ kV On the power cord	Not applicable	Network power supply should have the typical commercial or hospital environment under the use of quality.
Surge GB/T 18029. 21 GB/T 17626. 5	$\pm 1$ kV Differential mode voltage $\pm 1$ kV common mode voltage	Not applicable	Network power supply should have the typical commercial or hospital environment under the use of quality.
Power supply input line voltage sag short-term interruption and voltage changes  GB/T 18029. 21 GB/T 17626. 11	-0% UT, lasting 0.5 weeks (on UT, 100% suspension) -0% UT, lasting 1 week (on UT, 100% suspension)70% UT, lasting 25 weeks (on UT, 30% suspension)0% UT, duration 5 S (100% suspension in UT)	Not applicable	Network power supply should have the typical commercial or hospital environment under the use of quality. If the user of an electric wheelchair needs to operate continuously during a power outage, uninterruptible power supply or battery power is recommended.
Power frequency (50/60Hz) magnetic field GB/T 18029. 21 GB/T 17626. 8	30A/m	30A/m 50/60Hz	The power frequency magnetic field should have the power frequency magnetic field level characteristic in the typical commercial or the hospital environment typical place

Guide and manufacturer's statement-electromagnetic launch		
The electric wheelchair is intended to be used in the following prescribed electromagnetic environment, and the purchaser or user shall ensure that it is used in such an electromagnetic environment:		
Launch test	Conformity	Electromagnetic environment-a guide
RF emission GB4824	Group 1	Electric wheelchairs use RF energy only for their internal functions. As a result, its RF emission is low and the possibility of interference with nearby electronic equipment is small
RF emission GB4824	Class B	Electric wheelchairs are suitable for use in all facilities, including domestic facilities and direct connection to the public low-voltage power supply network of domestic homes
Harmonic emission GB 17625. 1	Not applicable	
Voltage fluctuation/scintillation emission GB17625. 2	Not applicable	

Guide and manufacturer statement-electromagnetic immunity			
The electric wheelchair is expected to be used in the following specified electromagnetic environment. The purchaser or user of the electric wheelchair shall ensure that it is used in such electromagnetic environment			
Immunity test	IEC 60601 Test by Ping	In line with the level	Electromagnetic environment-a guide
RF conduction GB/T 18029. 21 GB/T 17626. 6	3 Vrms 150 kHz~80 MHz	Not applicable	Portable and mobile RF communication devices should not be used closer than the recommended isolation distance to any part of an electric wheelchair, including cables. The distance shall be calculated by a formula corresponding to the frequency of the transmitter.  The recommended isolation distance $d = 1.2\sqrt{P}$  $d = 1.2\sqrt{P}$ 80 MHz~800 MHz $d = 2.3\sqrt{P}$ 800 MHz~2.5 GHz
RF radiation (charger) GB/T 18029. 21 GB/T 17626. 3	3 V/m 150 kHz~80 MHz	Not applicable	$d = 0.2\sqrt{P}$ 26 MHz~800 MHz $d = 0.4\sqrt{P}$ 800 MHz~2.5 GHz
RF radiation (wheelchair) GB/T 18029. 21 GB/T 17626. 3	3 V/m 80 MHz~2.5 GHz	20V/m 26 MHz~2.5 GHz	Type 1: Based on the transmitter manufacturer maximum rated output power, in Watt (W) units, d-recommended isolation distance, b in meters (m) . The field strength of a stationary RF transmitter is determined by surveying the electromagnetic field C, and in each frequency range D should be lower than the conformity level. Interference may occur near the equipment marked with the following symbols.
			
Note 1: on the frequencies of 80MHz and 800MHz, the formula of higher frequency band is adopted. Note 2: these guidelines may not be appropriate for all situations where magnetic propagation is affected by the absorption and reflection of buildings, objects and people.			
a Fixed transmitters, such as base stations for wireless (cellular/cordless) telephones and ground mobile radios, industrial gold radio, AM and FM radio and television broadcasting, its field strength can not be accurately predicted in theory. In order to evaluate the electromagnetic environment of fixed RF transmitter, the survey of electromagnetic field should be considered. If the measured field strength of the electric wheelchair is higher than the applicable radio frequency compliance level, the electric wheelchair should be observed to verify its normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or repositioning the electric wheelchair. b In the whole frequency range of 150KHZ ~ 80MH, the field strength should be lower than 3v/m.			

## After-sales service card

Cardholder:	Contact number:	The body Height:
Body weight:	Address:	
Model:	Factory Number:	Quality Warranty:
		Controller position
<b>Quality Warranty:</b> The product you purchased can enjoy the following repair services: 1. Motor, controller and frame warranty period 1 year; During the warranty period, free maintenance. 2 Provide maintenance services for life.		
Service record	Time	Content

Note: 1: If your contact information changes, please let us know!

- 2: The replaced parts belong to the company;
- 3: chargers, tires, handrails, plastic parts and other wearing parts are not covered by the warranty;
- 4: Dear customers, please truthfully fill in the "after-sales service card" and send it back, in order to get more and better after-sales service:

## Packing list

Items	Quantity
Electric wheelchair	one
Charger (on board)	one
After-sales service card	one
Instructions	one
On-board tools	one

## After-sales service card

Cardholder:	Tel:	Height:
Weight:	Address:	
Model:	Date of manufacture:	Ex-factory number:
		Controller location:
<b>Warranty:</b> the products you buy can enjoy the following maintenance services: 1. Motor, controller and frame warranty period of 1 year, in the warranty period, free maintenance. 2. To provide life-long maintenance services.		
Service record	Time	Content

Note: 1: If your contact information changes, please let us know!

- 2: The replaced parts belong to the company;
- 3: chargers, tires, handrails, plastic parts and other wearing parts are not covered by the warranty;
- 4: Dear customers, please truthfully fill in the "after-sales service card" and send it back, in order to get more and better after-sales service: