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Introduction

Welcome aboard your new power wheelchair.

This model has been designed with your practical needs in mind.

It is equipped with modern high-tech electronics and special features for a more comfortable ride.

This manual contains important information regarding the safe use of the power wheelchair.

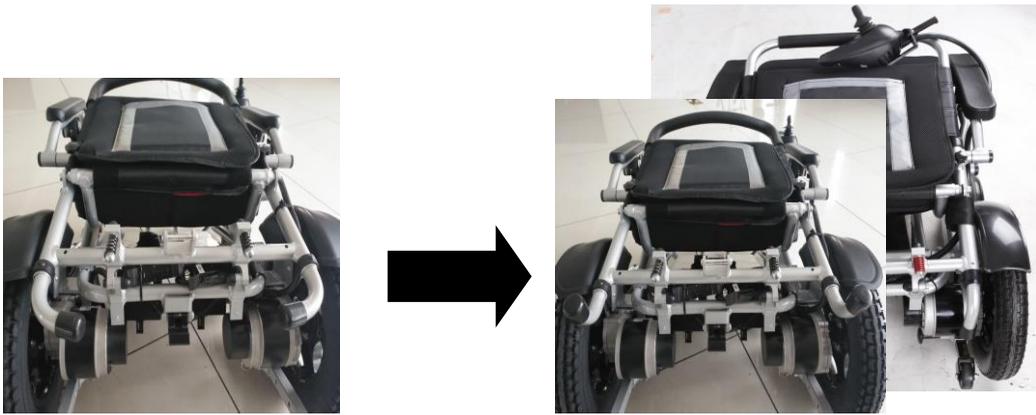
Please read it carefully before using the power chair and make sure you understand all the instructions.



- 1、 Footrest
- 2、 Battery
- 3、 Charging Port
- 4、 Joystick Controller
- 5、 Armrest
- 6、 Push Handle
- 7、 Rear wheel
- 8、 Motor
- 9、 Front Wheel

Quick Reference Guide

1, Take out the wheelchair and spare parts from the packing box ;
 Rotate the kickstand up 180° so that the kickstand will spring out ;



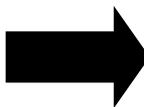
- 2, Install the controller to the right hand armrest of the driver;



- 3, One hand grasps the push hand tube and the other hand grasps the seat cushion frame outwards;



- 4, Fasten the locking buckle
(put the U-shaped buckle on the locking buckle, then force the wrench down);



- 5,** Lock the armrest (press down the armrest, then turn the small wrench on the side of the armrest upwards);



Specification

Model Name	EPW61-601A
Whole product size (unfolded)	1100*630*960mm
Net Weight (With battery)	29kg
Front wheel	200mm×50mm
Rear wheel	320×60 mm
Loading capacity	100kg
Forward speed	0-6km/h(adjustable)
Range per charge	≥20km
Motor	24v/250w×2
Turning radius	600mm
Battery(Lithium)	24V/13AH
Brake	intelligent Electromagnetic brake
Anti-tip wheel	50mm×25mm
Climbing ability	≤9°
Charger	AC100-240V50/60HZ Output: 24V-3A

Failure to follow the instructions below may result in damage to the electric wheelchair or serious injury.

Practice before operation

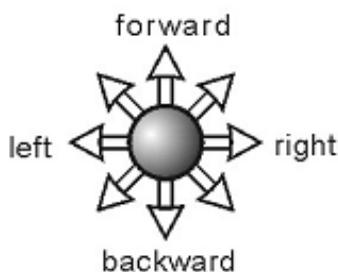
Find an open area such as a park and have an assistant to help you practice until you can operate this vehicle skilled.



Make sure that the power is off before getting on or off the seat. Set the speed control button according to your driving to proper speed you need.

We recommend you to keep the speed at the slowest shift until you are familiar with the

driving characteristics of this vehicle.



Stop, forward, and Reverse operation practice.

Push the joystick in the directions as above picture show when you want to drive to the direction accordingly.

First, practice moving forward. Be sure to set the speed to the lowest shift.



After familiar with moving forward, practice "S" turn.



After familiar with moving forward, practice drawing back. Attention to the speed controlling when backward.



Electromagnetic interference (EMI)

from Radio Wave Sources

The rapid development of electronics, especially in the area of communications, has saturated our environment with electromagnetic(EM) radio waves that are emitted by television, radio and communication signals.

These EM wave are invisible and their strength increases as one approaches the source. All electrical conductors act as antennas to the EM signals and, to varying degrees, all power wheelchairs and scooters are susceptible to electromagnetic interference(EMI).

The interference could result in abnormal, unintentional movement and/or erratic control of the vehicle. Power wheelchairs (in this section, it will be referred to as powered wheelchairs) may as susceptible to electromagnetic interference (EMI), which is interfering electromagnetic energy emitted from sources such as radio stations, TV stations, amateur radio (HAN) transmitter, two-way radios and cellular phones.

The interference (from radio wave sources) can cause the powered wheelchair to release its brakes, move by itself or move in unintended directions. It can also permanently damage the powered wheelchair's control system. The intensity of the EM energy can be measured in volts per meter(V/m).

Each powered wheelchair can resist EMI up to a certain intensity. This is called "immunity level". The higher the immunity level is, the greater the protection is. At this time, current technology is capable of providing at least 20 V/m of immunity level, which would provide useful protection against common sources of radiated EMI.

Following the warnings listed below should reduce the chance of unintended brake release or powered wheelchair movement that could result in serious injury:

1. Do not turn on hand-held personal communication devices such as citizens band(CB) radios and cellular phones while the powered

wheelchair is turned on.

2. Behold of nearby transmitters such as radio or TV stations and try to avoid coming close to them.
3. If unintended movement or brake release occurs, turn the powered wheelchair off as soon as it is safe.
4. Behold that adding accessories or components, or modifying the powered wheelchair, may make it more susceptible to interference from radio wave sources(Note: It is difficult to evaluate the effect on the overall immunity of the powered wheelchair).
5. Report all incidents of unintended movement or brake release to the powered wheelchair manufacturer, and note whether there is a radio wave source nearby.

When the following occurs, you should immediately turn off the electric wheelchair power supply:

- 1、 Suddenly move;
- 2、 Operation direction is not controlled;
- 3、 Brake failure;

Safety instruction

Do not carry passengers.

Do not drive across a slope.

Do not drunk driving.

Do not trail to other vehicle.

Do not turn on or use hand-held personal communication devices such

as radios or cellular phones.

Do not drive the power wheelchair without reading this instruction manual.

Do not exceed the safe climbing maximum angle.

Do not use the joystick in an erratic manner when going up or down incline.

Do not carry any passengers or exceed the maximum user weight when you drive the power wheelchair.

Do not press the On / Off Button of the controller when the power wheelchair is moving. This will cause the electromagnetic brakes out of work or cause damage to the joystick controller.

Do not drive over deep and soft terrain (soft dirt, loose gravel, or deep grass).

Do not attempt to climb stairs which height above 50mm (2") unless the slide way is installed.

Do not disassemble the power wheelchair unless the electromagnetic brakes are engaged and the joystick controller is turned off.

Do not operate the power wheelchair if no one sits on the power wheelchair.

Do not drive the power wheelchair on the traffic way, except on the footpath.

Do not change the driving direction or reverse before the power wheelchair stopped steady.

Always engage a slow speed when going down gradients (move the joystick to the central position)

Always use the safety belt.

Always keep the feet on the footrest while driving.

Always make sure the batteries are fully charged before setting out on a journey.

Always charge the power wheelchair in a well ventilated area to prevent any possible risk.

When the screw in the center of the wheel is loose, replace the same screw from the standard configuration with a wrench.

When passing the slope, move the seat as far as possible.

Reminder! When using an electric wheelchair, please refer to the following driver. As an electric wheelchair, the driver must follow all the rules and regulations, like any other driver.

NO!



Make sure there is no obstacle behind when braking; It is recommended that the speed be the lowest when reversing.

NO!



Avoid emergency braking, irregular shaking or emergency turning.

NO!



Keep your arm on or in the armrest and keep your foot on the footrest.

NO!



Do not cross roadsides that are more than 5mm high.

NO!



Do not cross a gap that is more than 10cm wide.

Precautions when driving on slopes:

Driving on a slope is much more dangerous than driving on a flat road. Please note the following. Falling or losing control will happen and cause serious harm to users and others.

NO!



Do not climb slopes that exceed 12° .

NO!



Do not reverse when climbing a slope, if it does, you may cause a rollover.

NO!



Do not drive on the side 3° above the ground. Driving on a road 3 degrees above the ground can easily lead to rollovers.

NO!



Do not drive on soft, uneven or unprotected roads such as grass and gravel.

NO!



Slow the speed when going downhill. It takes longer to stop the wheelchair completely when braking downhill.

NO!



Do not climb up and down the slope. Stop the wheelchair before getting on and off.

Terminology

Joystick: The device used to "move" the power chair.

Controller: The device that allows joysticks to function.

Armrests: Where arms can rest during time spent on power chair

Footrest: Where feet can rest during time spent on the power chair.

Anti-tip Wheels: Wheels that allow slight tipping, or prevent tipping while driving.

Drive Wheel: Wheels that move the power chair. These are the main wheels.

Caster Wheel: The front wheels.

WARNING

Do not use electric wheelchair, in the motor is unlocked;

Do not disassemble the motor, may cause the vehicle performance to decline, resulting in damage;

Joystick controller operation instruction

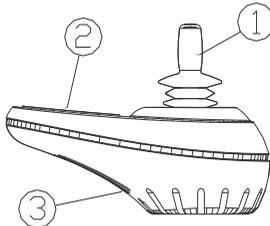
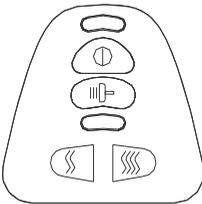
Assemble the controller

- 1、 Install the controller on the controller connection;
- 2、 Adjust the controller connection tube to the appropriate length, then tighten the plum nut;
- 3、 Plug the plug into the left and right motor and battery;

①Joystick

②Front control panel

③Charging Port



The operation of the controller

Try to avoid knocking the controller, especially the joystick. Do not beat the controller and the joystick while traveling. Do not hit the controller.

When operating a wheelchair, ensure that the control system is safe and reliable.

Operating environment

Do not keep the control system and its components in a humid environment for long periods of time. If the control system is in contact with food or drink, it should be cleaned up in time.

Cleaning

Dilute the deodorant wiping with a cloth to wipe the control system and the joystick, when wipe joystick should be particularly careful.

Do not use abrasives and similar cleaners.

control button

1: Battery indicate

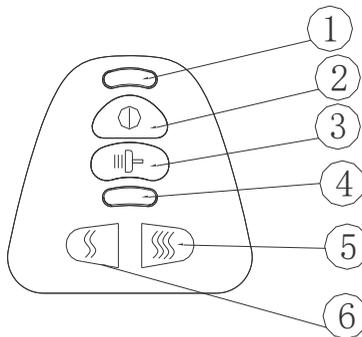
2: ON/OFF button

3: Horn

4: Speed indicator

5: Accelerated button

6: Deceleration button

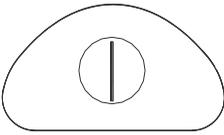


On/Off button and power display

The on / off button provides power to the electronic components of the control system to provide power to the wheelchair motor. In emergency situations you can use the on / off button to stop the wheelchair.

The power display shows the current battery power of the wheelchair. The indicator light indicates that the wheelchair is open. At the same time, the power display also shows the status of the wheelchair. For details, refer to the "Controller Status Indication".

Turn on the power

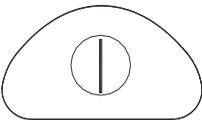


Press the power button

Each indicator will light

At the same time the current battery charge will also have instructions

Turn off the power



Press the power button

The indicator light will go off

Joystick

The main function of the Joystick is to control the speed and direction of the wheelchair, the Joystick can control the wheelchair

to travel in any direction, the operation of the Joystick movement will determine the wheelchair in that direction speed of movement. The farther the Joystick is moving from the center, the faster the wheelchair runs. When you release the Joystick, the wheelchair is automatically braked.

Speed display (S1-S5)

This is a speed that indicates the wheelchair setting, a total of 5 files, S1 is the lowest speed, S1 to S5 is the highest speed

Horn

Press the Horn, there is a sound issued.

Deceleration button

It is to slower the speed , each time you press this button, one bar of the speed indicator LED light will be disappeared , till it only remain one bar on . Do not press this button when driving .

Acceleration button

It is to make speed faster , each time you press this button , one more bar of the speed indicator LED light will be on (totally there are five bars available on the speed indicator light) . Do not press this button when driving .

To adjust speed by pressing deceleration button or acceleration button when the power wheel chair in static status.

Self-help guidance

If a system failure occurs, check the position of the flashing lamp on the speed display and battery indicator. According to the following

"controller status indication description" list, corresponding abnormal sound, check processing.

Controller status indication

Error indication	Malfunction	Solution
All LED lights are off, no sound	The power is off or in standby, and the power cord is in poor contact.	Check if the power plug is disconnected.
All LED lights are on	The power supply is turned on and the power on self test passes. The product can be used normally.	
The leftmost red LED is on and the voice alarm	Extremely low power supply	Charge in time, or bad battery, replace battery
Two long sounds after two short sounds	Left motor failure	Check whether the left motor connector is plugged into place and the connecting is good.
Four long sounds after	Right motor	Check whether the right motor

two short sounds	failure	connector is plugged into place and the connecting is good.
Six long sounds after two short sounds	Controller over-current status	Just after a heavy load, check whether the vehicle exceeds the rated load and turn it off and restart.
Seven long sounds after two short sounds	Joystick problem	When the controller switch is turned on, whether to release the joystick and put the joystick in the center position. After turning the joystick, turn off and on again.
Eight long sounds after two short sounds	The controller itself is faulty	Replace the controller
Nine long sounds after two short sounds	The controller itself is faulty	Replace the controller

Rear wheel clutch fork

Wheelchair in the electric state, after parking, the use of mechanical gear brake, hand wheelchair is difficult to promote. As long as the "rear wheel clutch fork" poke, you can easily push the wheelchair, then electric drive is invalid.

If the two sides of the rear wheel clutch fork is pulled out to the left or right direction, the motor will be released and the wheelchair can be pushed (see photo below). Otherwise, the wheelchair is hard to drive.



ATTENTION:

Try to keep the wheelchair in the electric state, the role of the clutch device is only to allow the wheelchair in the need (such as shops, from the crowded place) to use the manual to push.

Push the wheelchair

The first step: the two motor clutch fork to the left or right to pull;

The second step: to push the wheelchair;

Fold your wheelchair

Step 1: Pull the small spanner on the outside of the left and right armrests downwards to make the armrests loose state;



Step 2: loosen the rear lock, put the U-shaped locking down;

Step 3: Hold the push frame with one hand and the seat cushion frame with one hand. Use both hands to force it until your wheelchair is completely folded.



Adjust the controller out of length

Loosen the plumb bolts under the armrest, pull the controller bracket outwards, and lock the plumb bolts after pulling it to the proper position.

You can install the controller on the left as needed, remove the controller bracket and install it on the left



Back flip rotating armrest

Pull the small spanner on the outside of the left and right armrests down so that the armrests are in a loose state, and then the armrests can be turned back;

For those users of wheelchairs whose legs cannot bear any weight or cannot turn the armrest independently, it is recommended that the assistant help turn the armrest of the wheelchair.

Any assistant who helps a user of a wheelchair must perform appropriate training in the handling of wheelchairs.

Remove the battery

Step 1: pull out the power plug.

Step 2: Hold down the locking catch to disengage the battery from the frame and pull out the battery compartment.



Battery use

The electric wheelchair uses a 24V battery. This is a maintenance-free sealed lithium battery. The batteries are designed to handle deep discharges. Although they are similar in performance to car batteries, they cannot be replaced. Car batteries are not designed for long periods of deep discharge and are not safe for use in electric wheelchairs.

Battery power switch

This wheelchair is designed with a battery power switch. When the wheelchair is used, the battery power switch is turned on first. If it is not used for a long time, it is recommended to turn off the battery power switch (I is the power-on state, O is the power-off state).



Battery charge and discharge

In order to make the battery to server as long as possible , please refer to the following:

1. The battery should be fully charged before initial use
2. After first time fully charged , discharge the battery completely by driving around your yard or some place near to your home . Not to drive away too far for the first time in case the battery runs out and you will be unable to get back home .
3. Repeat to fully charge and completely discharge 4 to 5 times , so as to make the battery can work more efficiently in future use . In future use , to charge it every day if you use it every day. Once you find battery indicator only has red lights on, charge immediately .
4. Charging time is about 8-10 hours .
5. Frequently charging batteries provided reliable performance and long battery life. Battery discharges automatically even it is not used . It is necessary to check battery often and charge in time.

Dispose the lithium batteries according to the relevant local provisions

Charger

The charger is a very important part of your wheelchair and provides energy to your wheelchair through a safe, fast and easy charger.

Your electric wheelchair is maintenance-free design, however, we

recommend you to do the following checks on a regular basis:

Motor carbon brush:

Every six months you go to the local dealer to check the motor carbon brush.

Joystick/controller:

To ensure that the controller away from the damp air, moist air can easily damage the controller, can not warranty.

Battery cable:

Check the battery cables to make sure they are not corroded.

Clean your wheelchair with a damp cloth:

Do not use water to clean your wheelchair.

One year warranty

From the date of your purchase, our company provided repairs and replacements to the original purchaser. The local dealer or our company inspected and found any of the following damaged parts:

- motor;
- controller and operating handle;

Parts not covered by the one-year warranty::

Motor:

Failure of the converter due to no replacement of worn carbon brushes, the carbon brushes are worn out and are not covered by the warranty.

Brake:

Electronic components on the brakes are guaranteed for one year. The brake pads on the brakes are wearable parts and are not covered by the warranty.

Battery:

Warranty for six months.

Storage conditions:

It should be stored in a clean room with a relative humidity of $\leq 80\%$, non-corrosive gases, and a well-ventilated room.

*** Failure to follow these instructions may result in damage to the power wheelchair or serious injury to the driver.**

Wish you a safety and comfortable experience of using the power wheelchair