

# PW-999UL User Manual

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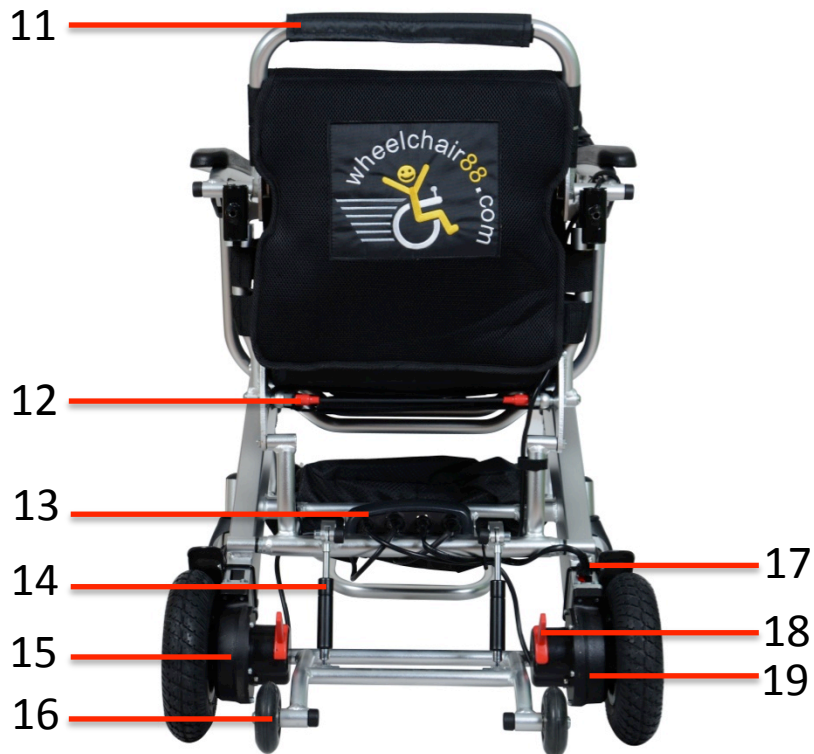
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# 1 . PARTS INTRODUCTION

1. Joystick Controller
2. Joystick Controller Knob
3. Battery Case
4. Storage Bag
5. Rear Wheel
6. Front Wheel
7. Armrest
8. Backrest
9. Seat Cushion
10. Footrest



11. Push Handle
12. Folding Lock Cable
13. Control Box
14. Hydraulic Shaft
15. Left Motor
16. Anti-tilt Support
17. Battery Connector
18. Mode Converter
19. Right Motor



## 2 . SET UP UPON ARRIVAL

### 2.1 How to Open and Fold the Foldawheel

When you take the wheelchair out of the box, remove the plastic cover, and stand the wheelchair as shown. Follow the 3 steps below.



**Step 1:** Hold the bottom of seat and push the footrest to its widest open position.



**Step 2:** Hold the aluminum bar at the bottom of the seat cushion to ensure the wheelchair does not drop down (P1). Remember, once the front portion of the wheelchair drops, or the footrest is getting close to the seat, it will go into a locked position. If this happens and you cannot open the wheelchair, kindly follow Step 1 again. Use one hand to hold the backrest handle (P2), while the other hand is supporting the front part of the seat, which is resting on the front wheel gently, as shown.



P1



P2

**Step 3:** Pull the backrest handle up. When you pull the handle, continue to hold the bottom part of the seat with your other hand (P3).



P3

The wheelchair should now be open. The Joystick Controller should be facing downward when you take the wheelchair out of the box. This protects the joystick controller from damage during shipping. When folding the wheelchair and placing it in the trunk of a car, or when traveling by plane, we suggest that you turn the joystick controller downward to avoid damage.

- ❖ While sitting on the wheelchair, please rotate the joystick controller clockwise to ensure the joystick controller cable is placed to the side of the armrest. Turning it in the wrong direction may cause the cable to catch underneath the armrest and not allow the joystick controller to rotate properly into place.
- ❖ Adjust the joystick controller to its upward position and lock it tightly. For your own safety, make sure that the joystick controller always stays in a locked position while operating the wheelchair.
- ❖ Connect the joystick controller with the cable as shown in P4, and push up the lock, as shown in P4. Turn the lock clockwise to lock it (P5).



P4



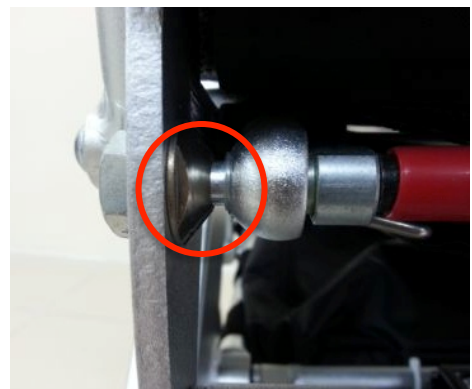
P5

## 2.2 - Last check before usage:

Please ensure the folding lock cable is in the locked position before driving. When you pull the folding lock cable, the locking mechanism will open (P6). Once the folding lock cable is released, it will return to the locked position (P7).



P6



P7



**WARNING:** The lock at both ends of the folding lock cable must be secured carefully before operating the wheelchair. Make sure the ends of the folding lock cable are securely locked on both sides.

### 2.3 - Armrest and Footrest

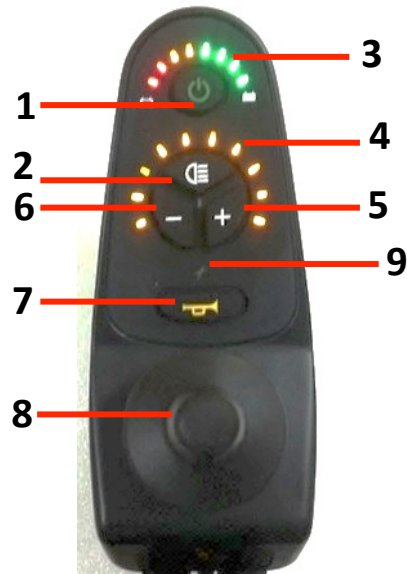
- ❖ By pulling the black latch underneath the armrests, the armrests can be raised up for easier transfer to a bed or chair. Raising the armrests also allows the user to get closer to a table while dining. Make sure it is in the locked position again after you lower the armrest to its resting position.
- ❖ The footrest is designed to be strong enough to support the weight of the user. The footrest can be folded inward, so the user can stand and transfer easier. This also allows the user to put his/her feet directly on the ground if desired when not operating the wheelchair.



## 3 . OPERATION

### 3.1 Joystick and Controller

1. On/Off Button
2. Factory Maintenance Button
3. Battery Strength Indicator
4. Speed Indicator
5. Increase Speed
6. Decrease Speed
7. Horn
8. Joystick
9. Maintenance Light



### 3.2 How to operate your power wheelchair

Turn on the power to the wheelchair by pressing the On/Off button, **DO NOT MOVE THE JOYSTICK UNTIL THE POWER IS ON.**

#### ❖ Speed control Increase and Decrease Button

Press the “ + ” button on the joystick controller to increase the speed.  
Press the “ - ” button on joystick controller to lower the speed.

#### ❖ Speed Indicator

Level 1 is the lowest speed, and Level 5 is the highest speed. Every 2 lights represents 1 level.

**Warning: We recommend that you become thoroughly familiar with the operation of your Foldawheel PW-999UL before you increase the speed setting from level 1 to a higher speed level.**

#### ❖ On/Off Button

The On/Off button provides power to the electronic control system, which in turn supplies power to the wheelchair’s motor. Do not use the ON/OFF button to stop the wheelchair unless there is an emergency. The joystick controller will automatically turn off the power after 15 minutes of inactivity.

**Suggestion: Please power off whenever waiting. To preserve energy.**

**Warning: If you use the ON/OFF button to stop the wheelchair, it may shorten the life of the drive components.**

## ❖ **Joystick**

The primary function of the joystick is to control the speed and direction of the wheelchair. The further you push or pull the joystick from the center position the faster the wheelchair will move. When you release the joystick the brakes are automatically applied. There is a half second delay in the movement of the wheelchair for safety purposes.

## ❖ **Horn Button**

Press the button to sound the horn.

## ❖ **Battery Strength Indicator**

The battery gauge shows you that the wheelchair is switched on. It also indicates the battery capacity remaining in the battery pack. However, it is not a proportional indication, so please charge the battery when the green light on the battery indicator disappears.

## ❖ **Factory Maintenance Button**

The factory maintenance button is used for re-programming of the joystick controller. Pressing the button will not affect normal usage.

## ❖ **Lock / Unlock Joystick Controller**

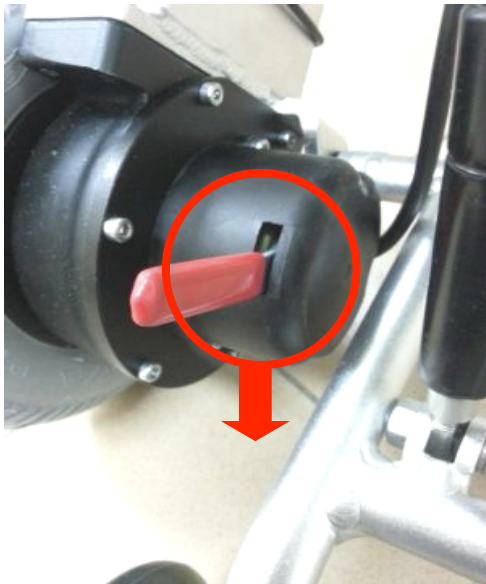
- To **lock**: When your joystick controller is powered on, press and hold the “on/off” for more than 5 seconds until the light turns off. You will see the battery strength indicator blinking and running from right to left. (The power will turn off automatically after a few seconds)
- To **unlock**: Press the “on/off” button to turn on the joystick controller. Then press the “ + ” increase speed button 3 times.



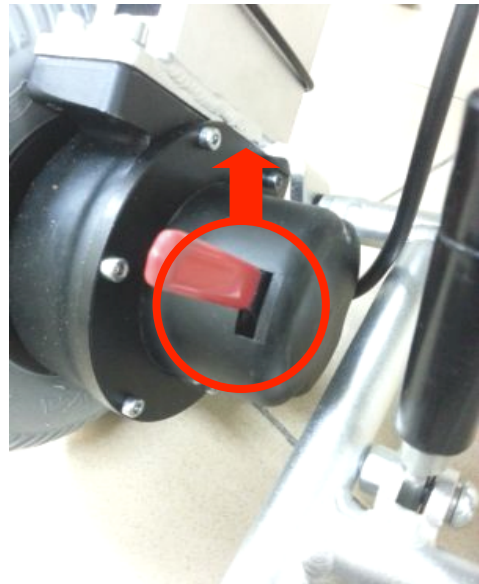
### 3.3 How to Convert to Power and Manual Mode

- Pull the red levers (Up) to engage Power Mode. While in power mode, do not attempt to push the wheelchair manually.
- Push the red levers (Down) to use Manual Mode. To push the wheelchair manually, turn off the power using the joystick controller.
- Although the wheelchair can be power operated in either mode, the user should use power mode only unless the wheelchair is being pushed.

**Warning:** Operating the wheelchair in Manual Mode disengages the brakes, so when using the wheelchair without someone assisting to push it, ALWAYS use Power Mode.



**Manual Mode**



**Power Mode**

## **4. SAFETY NOTICE**

### **4.1 Before driving**

The user should become readily familiar with this User Manual and the operation of this wheelchair before driving it outdoors. TO AVOID SERIOUS INJURY OR DEATH, please keep the following safety tips in mind at all times:

#### **❖ Driving environment.**

- Drive straight up and down a ramp, slope, curb or any uneven surface.
- Do not drive up or down hills that are too steep.
- When approaching a curb, or any uneven surface, stop a few inches in front of it and then slowly drive the wheelchair from the stopped position up the curb or surface.
- Do not drive your wheelchair after consuming alcohol, or when you feel tired.
- This wheelchair has been designed to operate on dry pavement at speeds up to 7km/h (4.3 mph).
- Drive on even pavement and marked pedestrian areas only.

#### **❖ Practice operating your power wheelchair at home.**

- Turn the speed dial to the lowest setting for initial use. Only increase the speed setting when you are confident that you can easily operate and control the wheelchair.
- Be sure someone accompanies you for safety when operating your wheelchair for the first time.

#### **❖ Do not use this wheelchair to carry or haul goods.**

#### **❖ The maximum weight capacity is 220 lbs with center of gravity in a seated position. If the user exceeds 220 lbs, this wheelchair is not recommended for use.**

## 4.2 While Driving

- Do not attempt to get out of the wheelchair while it is moving as doing so may cause serious injury or death.
- Pay close attention to avoid any loose clothing getting caught in the wheels, or catching on the joystick controller.
- It is further recommended that you follow these warnings.
- Do not get in or out of your wheelchair unless the power is off.
- Do not drive on roads with heavy traffic.
- Do not drive in rain, snow or icy conditions.
- Do not drive your wheelchair in an “S” pattern, or make erratic turns, as this could cause the wheelchair to flip over.
- Do not take the wheelchair onto escalators.
- Do not drive onto ramps that are steeper than the specified gradient.
- Always use a low speed setting when ascending or descending a hill.
- Do not make turns when driving on gravel roads or ramps.
- Always lean forward when climbing a steep hill, and lean backwards when going down hill.
- Release the joystick control lever completely and the wheelchair will come to a stop.
- Do not turn the power OFF from the joystick controller until you have come to a complete stop.

### **WARNING!**

- Do not set the wheelchair in Manual Mode when ascending or descending a hill. Always engage the Power Mode before using the wheelchair alone.
- Exceeding the weight capacity of the wheelchair may lead to damage to your wheelchair, cause it to malfunction, or endanger your own safety. The warranty does not cover this type of damage.
- Avoid putting all of your weight and standing on the footrest. This may cause the wheelchair to tip and possibly result in serious injury.
- Do not turn the power switch to OFF while driving, as this will lead to an emergency stop and possibly result in serious injury.
- Do not set to higher speeds while driving indoors.
- Beware of people and objects at all times while operating your wheelchair.
- Do not adjust the speed while driving. A sudden change in speed may cause injury to you and/or others, or damage to your wheelchair.
- Do not place magnetic devices near the wheelchair as this could affect its safe operation.

## 5. Electromagnetic Interference (EMI)

This section provides the user with basic information that describes the problems with electromagnetic interference (EMI), known sources of EMI, protective measure to either lessen the possibility or exposure or to minimize the degree of exposure, and suggested action should unexpected or erratic movement occur.

**Attention :** It is very important that you read this information regarding the possible effects of electromagnetic interference on your PW-999UL

### ❖ **Electromagnetic Interference (EMI) from Radio Wave Sources**

Powered wheelchair's may be susceptible to electromagnetic interference (EMI), which is interfering electromagnetic energy (EM) emitted from sources such as radio stations, TV stations, amateur radio (HAM) transmitters, two-way radios, and cellular phones. The interference (from radio wave sources) can cause the power wheelchair to release its brakes, move by itself, or move in unintended directions. It can also permanently damage the power wheelchair's control system. The intensity of the interfering EM energy can be measured in volts per meter (V/m). Each power wheelchair can resist EMI up to a certain intensity; this is called its "immunity level". The higher the immunity level, the greater the protection. At this time, current technology is capable of achieving at least a 20 V/m immunity level, which would provide useful protection from the more common sources of radiated EMI. This power wheelchair PW-999UL has been shipped with no further modification and with an immunity level of 20 V/m without any accessories.

There are a number of sources of relatively intense electromagnetic fields in the everyday environment. Some of these sources are obvious and easy to avoid. Others are not apparent and exposure is unavoidable. However, we believe that by following the warning listed below, your risk to EMI will be minimized.

The sources of radiated EMI can be broadly classified into three types :

1. Hand-held portable transceivers ( transmitter-receivers with the antenna mounted directly on the transmitting unit. Examples include: citizen band (CB) radios, “walkie talkie”, security, fire, and police transceivers, cellular telephones and other personal communication devices.

Attention : Some cellular telephones transmit signals while they are ON, even when not being used.

2. Medium-range mobile transceivers, such as those used in police cars, fire trucks, ambulances and taxis. These usually have the antenna mounted on the outside of the power wheelchair.
3. Long-range transmitters and transceivers, such as commercial broadcast transmitters (radio and TV broadcast antenna towers) and amateur (HAM) radios.

Attention : Other types of hand-held devices, such as cordless phones, laptop computers, AM/FM radios, TV sets, CD players, cassette and small appliances such as electric shavers and hair dryers are not likely to cause EMI problems to your power wheelchair.

## ❖ Power Wheelchair Electromagnetic Interference (EMI)

Because EM energy rapidly becomes more intense as one moves closer to the transmitting antenna (source), the EM fields from hand-held radio wave sources (transceivers) are of special concern. It is possible to unintentionally bring high levels of EM energy very close to the power control system of the power wheelchair while using these devices. This can affect the power wheelchair movement and braking. Therefore, the warnings listed below are recommended to prevent possible interference with the control system of the power wheelchair.

## ❖ Warnings

Electromagnetic interference (EMI) from sources such as radio and TV stations, amateur radio (HAM) transmitters, two-way radio, and cellular phones can affect power wheelchairs and motorized power wheelchairs. Following the warnings listed below should reduce the chance of unintended brake release or power wheelchair movement which could result in serious injury.

1. Do not operate hand-held transceivers-receivers, such as citizen band (CB) radios, or turn ON personal communication devices such as cellular phones, while the power wheelchair is turned ON.

2. Be aware 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 power wheelchair OFF as soon as it is safe;
4. Be aware that adding accessories or components, or modifying the power wheelchair, may make it more susceptible to EMI (Note: There is no easy way to evaluate their effect on the overall immunity of the power wheelchair).
5. Report all incidents of unintended movement or brake release to the powered power wheelchair manufacturer, and note whether there is a source of EMI nearby.

### ❖ **Important Information**

1. 20 Volts per meter (V/m) is a generally achievable and useful immunity level against EMI (the higher the level, the greater the protection)
2. This product has an immunity level of 20 V/m without any accessories and connected to it.

## 6. BATTERY CHARGING AND CARE

### 6.1 Battery

- ❖ The battery pack in the Foldawheel PW-999UL is made of Polymer Li-ion cells, more advanced than the standard Li-ion battery pack, or the traditional Lead-Acid battery. Not only is it a high capacity battery in such a small size, it is also very lightweight, durable and long lasting.
- ❖ One battery pack allows the user to operate the wheelchair for approximately 13km (8 miles). There is an option to purchase a second battery which allows the user to operate the wheelchair for approximately 26 km (16 miles).



### 6.2 Charging the Battery

- ❖ The Foldawheel comes with a 24V 2A charger. It is made with high quality components and has passed all of the required standards and tests. Once you connect to a power source, the LED indicator will illuminate.

**Red** : Connected to power source

**Yellow** : Start Charging

**Green** : Charging completed

**ATTENTION** :This charger only works with equipment with the following criteria:

- 24V
- Li-ion battery equipment only
- A similar charging connector



## 7. SPECIFICATION

Net Weight with 1 standard battery pack	20.5 kg (45 lbs)
Max Speed	7 km/hr (4.3 miles/hr)
Maximum Seat Capacity	100kg (220 lbs)
Seat cushion Width	40cm (16")
Armrest Width (equivalent seat width)	46cm (18")
Seat Depth	40cm (16")
Seat Height From Ground (Front)	49cm (19.3")
Seat Height From Ground (Back)	47cm (18.5")
Turning Radius	75cm (29.5")
Folded Size	30cm (L) x 71cm (H) x 62cm (W) 11.8" (L) X 28" (H) X 23.6" (W)
Opened Size	87cm (L) x 85cm (H) x 60cm (W) 34.3" (L) X 33.5" (H) X 24.4" (W)
Packing Size	35cm (L) x 78cm (H) x 64cm (W) 13.8" (L) X 30.7" (H) X 25.2" (W)
Max Distance / Full Charge (on flat surface without stops)	13km (8 miles) with standard battery 26 km (16 miles) with Optional 2 <sup>nd</sup> battery
Charge Time (for 1 battery)	5 hours
Slope Capability	15°
Battery Type	Soft Pack Polymer Li-Ion Battery
Battery Capacity	24V 6Ah
Motor Type	Latest Brushless Motor
Motor Power	150W x 2
Front Wheel	7"
Rear Wheel	8"
Frame Material	Aircraft Quality Aluminum Alloy
Rear Tire Type	Rigid PU tire
Armrest	Raisable
Footrest	Foldable
Backrest	Foldable



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Thank You