

CH4088

Portable Power Wheelchair

Owner's Manual



Carefully read all instructions prior to use. Special attention needs to be paid on the items marked with ★.

EZee Life™ Products 34 Futurity Gate, Unit 15 Concord, Ontario L4K 1S6

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Guidance for Use

This product is driven by DC motor and can be used both indoors and outdoors. (It is recommended not to use it outside for a long time, and the ambient temperature should range from -5°C to 45°C). Used by the elderly and the disabled as a travel tool, the power wheelchair is ultra-compact, light-weight, portable, safe and comfortable.

To Users:

Do not operate the power wheelchair without prior reading and understanding of this owner's manual. If you have problem in comprehending the warnings, notes and instructions contained in this manual, please contact your distributor for professional guidance and help, otherwise it may cause bodily injury due to the improper use. In addition, you can operate the power wheelchair under the guidance of the professional technicians with vocational qualification.

Introduction

Dear customer,

Thank you for choosing KD's power wheelchair PL001, which has excellent qualities of safety, comfort and portability in design and manufacture.

Power wheelchair PL001 will help you regain your mobility, and it will be your most trustworthy and dependable friend

★Please read and follow all instructions in this owner's manual carefully before operating your power wheelchair for the first time. This manual will help you understand the performance, operation and proper maintenance of the power wheelchair. If you need further help and advice or you cannot control the wheelchair PL001 well, please contact your distributor or manufacturer to get better guidance and assistance.

Product Safety Symbols

The following symbols are used to identify warnings, mandatory actions and prohibited actions. It is essential that you shall fully understand and completely familiarize yourself with these symbols before operating.



Read and follow the instructions provided in this manual.



Safety warning sign or an indication of a dangerous operation that may endanger the safety of you and others.



Class II (auxiliary) equipment



General-applied Part



Easily squeezed / Pinch point.



Store in a clean and dry condition; away from rain, snow, ice, salt and water.



Test of EMI/RFI at an immunity level of 30 V/m has been passed.



Corrosive substance contained in the battery



Danger of explosion



Keep tools and other metal objects away from both ends of the battery. If contacted, short-circuit or electric shock may occur and cause injury.



Flammable material, avoid exposure to heat source such as open flame or sparks. Avoid transporting the batteries along with flammable or combustible objects.



Battery; Disposal and recycle

Features



- | | | |
|---------------------------|-----------------------------|---------------------|
| 1 Upper Backrest | 7 Controller | 13 Splash Guard |
| 2 Backrest Folding Button | 8 Seat Cushion | 14 Motor |
| 3 Seat Belt | 9 Backrest Adjusting Button | 15 Manual Mode Knob |
| 4 Back Cushion | 10 Armrest Limiting Block | 16 Footrest |
| 5 Armrest | 11 Storage Basket | 17 Front Wheel |
| 6 Control Panel | 12 Leg Guard | |

Features



- | | | |
|-------------------------------------|------------------------------------|---------------------------------|
| 18 Backrest Adjusting Traction Rope | 21 Electromagnetic Unlocking Valve | 24 Armrest Adjusting Button |
| 19 Air Spring | 22 Lithium Battery | 25 Armrest Quick Release Button |
| 20 Folding Hand Knob | 23 Anti-Tipping Wheel | 26 Armrest Unlocking Button |

Technical Specifications

Model	PL001-6001
Dimensions (Unfolded): L x W x H	1026*620*1030mm (40 x 24.4 x 40.6)
Dimensions (Folded): L x W x H	880*620*480mm (34.6 x 24.4 x 18.9)
Suggested User Weight	Max: 150 kg, (330 lbs)
Weight	35 kg (with battery)/ 32.5 kg (without battery)
Maximum Climbing Angle	12 degree
Full Charge Mileage	≥15 km (on standard condition)
Max Speed	6 km/h
Turning radius	835 mm
Maximum Obstacle-crossing Height	35 mm
Motor	
Type	Brushless DC Motor
Rated Power	250 W
Input Voltage/ Current	DC 24V
Qty	2 sets
Break System	Intelligent Electromagnetic Brake
Breaking Distance	At max speed: < 1 m
Battery	
Type	Lithium Battery
Nominal Capacity	12 Ah
Output Voltage	DC 24V
Qty	1
Controller	
Type	Brushless Dual-drive Rocker Controller
Input Power	250 W
Input Voltage/ Current	DC 24V/ 12A*2
Front Wheel	
Wheel Diameter x Tire Width	200mm x 45mm (8*1.8)
Type	Solid Tire
Material	PU
Qty	2
Rear Wheel	
Wheel Diameter x Tire Width	300mm x55 mm (12*2.2)
Type	Solid Tire
Material	PU/ Rubber
Qty	2
Backrest	
Adjusting Way	Electroless Adjustment
Adjusting Angle	30 degrees

Electromagnetic Interference Warning

WARNING

The power wheelchair may be affected by electromagnetic interference (EMI). Therefore, it's quite essential for users to familiarize the instructions.

This section aims to describe the problems caused by the electromagnetic interference, which can help users understand and take protective measures against the risks occurring on certain circumstances.

★ The Interference of Electromagnetic Waves

The power wheelchair is susceptible to electromagnetic waves, the sources of which come from broadcasting stations, TV stations, radio transmitters, and the communication equipment such as two-way radios. Interference from these electromagnetic waves may cause malfunction or permanent damage to the wheelchair's braking and control system. The power wheelchair has passed the 30 V/m EMI test and has a certain degree of immunity to most common electromagnetic energy sources in life.

CAUTION

1. Stay away from all radio wave emission sources, such as TV stations, Radio station, etc.
2. If interference does occur and causes unintended movement to the wheelchair in an uncontrolled manner, cut off the power immediately.

No modification of any form to the power wheelchair is allowed, including adding or removing any parts, in case of decreasing its anti-interfering capability.

Safety

Users



⚠ WARNING

1. Keep tools and other metal objects away from both ends of the battery. If contacted, short-circuit or electric shock may occur and cause injury.
2. Health care personnel shall receive professional training and guidance in the safety usage of the power wheelchair.
3. Before using, you shall first familiarize yourself with the power wheelchair.
4. You shall practice operating the power wheelchair with the aid of the health care personnel until you are confident enough to independently, skillfully and safely perform the operations, such as moving forward, turning, crossing obstacles, braking, etc.
5. Do not perform unfamiliar operations if you cannot confirm the safety.
6. You shall check the operating site in advance, identify the safety in the area and make preparations for taking protective measures against the risk.

Caregivers

⚠ WARNING

1. Based on the specific needs of the users, you need to help them to develop a safest plan combining with the advice of the doctors, nurses and physiotherapists.
- ★ 2. When pushing the power wheelchair, you have to switch on the manual mode knob. In this case, the brakes on the controller will completely not work. (refer to the instructions on Manual Mode Knob)
3. Following issues shall be focused on when pushing the power wheelchair:
 - 1) You shall help users to keep their body in the correct posture in accordance with the dynamics of the human body, in order not to hurt users' back. You can slightly bend your knees and straighten your back vertical when lifting up users or inclined power wheelchair.
 - 2) Before operating, you shall tell users what you intend to do, your reasons for doing so and what you want them to do, which will help users to make preparations against the accidental injuries.
 - 3) Be aware of the upstairs, downstairs and the turning corners, where you may fall or turn over.
 - 4) You shall remind users to closely lean against the backrest, when you preparing to tilt the wheelchair backwards.
 - 5) You shall slowly move the power wheelchair down the steps, in case of making users injured as well as damaging the wheelchair itself. And be aware of keeping the road smooth.

Safety

Control Panel

⚠ WARNING

Please be aware that the control panel of the power wheelchair shall be securely mounted (Fig. A1), in case of colliding or falling down.

1. Check and adjust the control panel every six months.
2. If any buttons on the control panel fail or are not responding, please contact the supplier for repairment or replacement.



Static Position

⚠ WARNING

1. When the wheelchair is inactive even for a moment, the power must be off, which can:
 - Prevent the control panel from being activated by accidental touch which may cause the wheelchair to move unintentionally.
 - Prevent the wheelchair from electromagnetic interference sources which may activate the wheelchair's operation system.
2. Do not allow anyone but you to touch the control panel to prevent the unexpected movement of the wheelchair.

Using Environment

⚠ WARNING



This power wheelchair shall not be used or stored in environments of rain, snow, icy or slippery surfaces.

1. Malfunction may occur if the device is in contact with water or high humidity environments. The power wheelchair is not fully waterproof, and a humid environment may result in rusting or corrosion inside the wheelchair.

To prevent malfunction, please adhere to the guidelines as follows:

 - ★ ● Do not operate or store the wheelchair in an environment which has direct water contact (e.g. heavy rain).
 - Do not use the wheelchair while showering, swimming, etc.
 - Do not use the wheelchair around any water sources (e.g. river, lake, sea, etc.).
 - Replace the control panel if it is damaged.
 - Ensure that all electrical connections are safe and non-loose.
 - ★ ● You must not flush the wheelchair with water. If your wheelchair has been wet, please immediately pull out the battery and allow it to dry naturally. Put the battery back after the wheelchair is completely dried.
2. When operating on wet or frictionless ground surfaces, please carefully move at a slow speed.
 - You must ensure that the operation can be done safely.
 - When any of the motor wheel losses traction, the wheelchair must be stopped immediately to avoid losing control.
 - Do not drive into slopes or ramps covered with snow, ice, water, oil, etc.
- ★ 3. Please ensure the power is off when finish using, make the batteries full-charged and keep the wheelchair clean and dry.

Road Surfaces

⚠️ WARNING

1. The power wheelchair is designed optimally for level surfaces; such as concrete, asphalt and indoor ground flooring.
2. Do not use the wheelchair on sand, loose soil or uneven surfaces to prevent the wheels, bearings, motor and other parts from being damaged or loosened.



Driving in Traffic Environment

⚠️ WARNING

Beware of the local traffic regulations on public roads.

You must be aware of that it is dangerous to drive on public roads or parking lots.

1. For increased visibility at night, the wheelchair has light reflecting markers (Fig. B1, B2). It is highly recommended that you wear light reflective clothing while driving at night.
2. When operating the wheelchair in traffic amongst motor vehicles, make sure the driver notices you. Before you continue to operate the wheelchair, make eye contact with the driver and make gestures to show your intention until you are sure it is safe to drive.



Vehicle Transport

⚠️ WARNING

1. Please try not to sit in the wheelchair when taking any forms of transportation such as buses, metros trains, planes or ships.
2. If you take such forms of transportation while remaining in the wheelchair, it is extremely important that you fasten your seat belt, and find a place where the wheels or body of the wheelchair can be fixed to avoid injury in the event of a sudden stop or a traffic accident.
3. Do not place the wheelchair in the front row of the vehicle so as not to interfere with the driving.
4. When you get on and off the transportation vehicles, try not to sit in the wheelchair. If you need to be transferred without getting off the wheelchair, never allow anyone to lift the wheelchair by the armrest or rear backrest. The wheelchair must be lifted by firmly gripping the front and rear edges of the seat cushion frame.

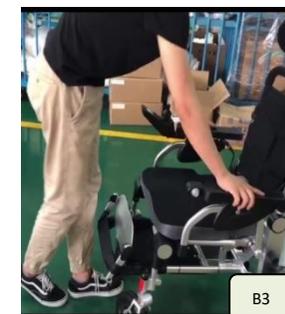
Driving Balance

⚠️ WARNING

Keep the balance and stability of the power wheelchair to avoid tipping over while driving.

The following factors may affect the weight distribution of the wheelchair:
Height and angle of the wheelchair

1. Seating position, or weight loading position of the user's body.
 2. The gradient of the ramp or slope.
 3. Whether backpacks or other items are used to change the total weight and weight distribution of the wheelchair
 - ★ 4. Do not drive the wheelchair when the backrest is adjusted to a low level, otherwise, there is a risk of rollover
- If you need to modify or adjust the power wheelchair, please consult your supplier in advance and obtain the manufacturer's authorization. The modified wheelchair may require additional adjustments to correct the balance. Operate the modified wheelchair with special caution until you are familiar with the balance and the means to avoid falling or tipping over.



Getting On/Off

⚠️ WARNING

It is dangerous to move your body by yourself because it requires good balance and flexibility. Whenever moving your body, it is recommended to have a supporting point that is higher than the seat cushion to avoid falling.

- ★ 1. Before getting on the wheelchair, ensure that the power is off. Otherwise, if you touch the joystick, it may lead to an unexpected movement.
2. Make sure that the motor is in "Lock" position and the wheelchair will not move on its own.
3. Consult your health care professionals about the safest way to move your body in and out of the wheelchair.
 - Learn how to position your body and how to support yourself while moving.
 - Ask others to help you until you are sure that you can safely get on and off the wheelchair.
4. Move the wheelchair as close as possible to the target position. If possible, please use the related auxiliary equipment.
5. Turn up the footrest with your hands or feet (Fig. B3), then hold the seat cushion or armrests to give yourself a suitable way to get on the wheelchair.
 - Do not stand on the footrest to move your body to avoid the injury.
 - Lift the footrest up before you get on the wheelchair to avoid obstruction.
6. When you get off the wheelchair, please lift up the footrest first. (Do not stand on the footrest while getting on/off to avoid falling), or press the armrest unlocking button on either side, then pull up the armrest and get off from the side (Fig. B4).



Leaning or Reaching While Seated

⚠ WARNING

Reaching out your hands or leaning your body in the power wheelchair may adversely affect the wheelchair's balance. If you do not position yourself correctly, you may fall off or tip over the wheelchair.

Followings are a few measures against the risk of making users injured or damaging the power wheelchair:

1. When moving your body such as lifting your body at one side or leaving the seat, please do not lean your body out of the range of the seat cushion.
2. When moving forward on your seat, do not lean your body excessively. (Fig. C1) Your hip must be always in contact with the seat cushion.
3. Do not reach your hands to get the things farther than your capability as this may result in falling due to lost balance.
4. Under no circumstance should you try to pick up anything through the space between your knees or in front of your body.
5. When you extend your body, do not exert force on the footrest to avoid the wheelchair from tipping over, this may result in serious injury.
6. Do not rest forcefully against the top of the backrest to avoid tipping over the wheelchair and causing damage to the backrest.



★ Notes:

1. Move your wheelchair as close as possible to the target position.
2. If you move your wheelchair beyond the target position, please move backwards to approach it.
3. After reaching the target position, please turn off the power of wheelchair and hold the handrail tightly. You shall make the wheelchair tilted against the risk of falling.

Getting Dressed on the Wheelchair

⚠ WARNING

Note: When you get dressed in the wheelchair, please make sure the power is off in case of resulting in the wheelchair moved due to the accidental touch of the control panel and making you fall.

Crossing Over Obstacles

⚠ WARNING

Crossing over obstacles such as doorsills, elevators, slopes, pot holes and rough roads can be hazardous. Improper use may result in damage to the wheelchair or causing bodily harm.

1. Extreme caution is needed when crossing the doorsill. Even a slight height change may make the front wheels stuck in, tipping over your wheelchair. So please:
 - Remove or cover the doorsill with a slope to make the wheelchair climb and descend.
 - Position a ramp door.
2. When moving the wheelchair, please be slow and cautious to go through.
3. Ensure that you can cross over the obstacles smoothly and safely while using the wheelchair.
4. Followings are the measures for you to move your body:
 - Lean your upper body slowly and slightly forward, when crossing over an obstacle with an ascending slope.
 - Lean your upper body gently against the backrest, when crossing over an obstacle with a descending slope.

Reverse Driving

⚠ WARNING

When driving in reverse, please be extremely cautious. If the rear wheels run into an obstructive object your wheelchair may get out of control and tip over.

1. You shall approach slowly while driving in reverse.
2. You shall often stop and check to ensure that all obstructive objects are cleared on your passing road.

Driving on the Inclined Slopes

⚠ WARNING

When you drive on a slope, the balance of the wheelchair will change.

- ★ The slopes include hillsides or ramps. If you feel uncomfortable driving on a slope, do seek assistance to protect you from causing bodily harm to yourself.

Following issues are needed to be extremely cautioned:

1. It is not advisable to drive on slopes over 10°. It is prohibited to drive on slopes over 12°.
2. It is prohibited to drive on a wet slippery slope (e.g., snow, ice, water, oil).
3. It is prohibited to drive in areas with continuous up and down slopes.
4. It is prohibited to drive on slope if there are pits at the bottom of the slope.

Load Limit

WARNING

1. The max load of the wheelchair is 150kg (330lbs), do not exceed the max load while using the wheelchair.
2. Under no circumstances should the users do weight training while using the wheelchair.
3. Overloading the wheelchair may cause damage to the frame, fastened parts and folding device. It may cause serious damage to the users or others, and also damage the wheelchair.
4. Overloading caused damages will void the warranty of the wheelchair.

Getting Up/Down Escalators

Following issues shall be noted when getting up/down escalators:

- ★ It is prohibited to move or use the wheelchair on stairs and escalators. Serious bodily injury may be caused. Wheelchairs can be used in elevators. Please move the wheelchair when the elevator door is opened, and make sure the door remains open when you pass through the door.

Positioning Seat belt

WARNING

The seat belt can be used to prevent the users from falling off the wheelchair. It cannot protect the users in accidents.

The seat belt can be adjusted according to the user's comfort.

The use of the seat belt:

1. You must fasten the seat belt to ensure personal safety.
2. Open the safety buckle (Fig. D2) by pinching the plastic card (Fig. D1).
3. After sitting down, insert the buckle plastic card into the plastic case on the other side and you will hear a click.
4. You can adjust the length of the seat belt via the adjusting buckle (Fig. D3). Ensure the seat belt is appropriately adjusted so that it does not make you uncomfortable.
5. When you need to get off the wheelchair, press the safety button and pull out the plastic card.



D1



D3



D2

CAUTION

Always ensure the seat belt is installed on the wheelchair properly and appropriately adjusted so that it does not make you uncomfortable.

Always check the seat belt for any loose part or if it is damaged. If any problem is found, please ask for maintenance or repair through after-sales service.

Installation Guide

Mounting the Control Panel

Based on the users' needs, the control panel can be mounted on the right or left armrest. (The control panel is initially mounted on the right armrest, please contact the supplier if you want to change it to the left side)

1. As shown in Fig. E1, put the control panel on the right armrest and tightly fix it with the quick release handle.
2. As shown in Fig. E2 and Fig. E3, plug the control panel cable and the extended cable together and rotatably fix them with the locking ring.



Extended Cable



Operation Guide

Control Panel

The Control Panel comprises of the following:



1. Power-On Button

Pressing this button will power on the wheelchair, pressing it again will power off the wheelchair.

2. Menu Button: Open the menu or confirm when editing the menu.

3. Speed Button/ Down Button of the Menu
Decrease the speed of the wheelchair

4. SOS Button/ Back Button

Long pressing this button can trigger the SOS emergency and sound a continuous alarm, long pressing it again will cancel the emergent situation. Pressing this button can exit menu-editing.

5. Speed Button/ Up Button of the Menu
Increase the speed of the wheelchair.

Max. speed: 6 km/hr (3.75 m/hr).

6. Horn Button

Make a sound to remind the people around.

7. Control Joystick

Control the direction and speed of the chair. Push the joystick towards the desired direction. (refer to the instructions on Control Joystick)

8. Error Code Indicator

Indicate the error code when the circuit is broken (please contact the distributor when the error code indicates)

9. Speed Indicator

There are 5 LED lights in all. With 1 LED light on, the wheelchair is at its lowest speed, 5 LED lights on, the wheelchair is at its max. speed.

10. Percentage of Remaining Battery/ Graphical Indicator in the Fault Conditions
Accurately indicate the percentage of remaining battery.

11. Battery Life Indicator

Indicate the remaining battery.

12. Ring-shaped Speed Indicator
Indicate the driving speed of the wheelchair.

13. USB Interface

Rewrite program and modify motion parameters by connecting with PC or the apps bound to Mobile Bluetooth.

Power-On/Off Button

1. Pressing this button will power on the wheelchair.
2. Pressing this button again will power off the wheelchair.

Menu Setting

Long press the “Confirm” button in the main interface to enter the “Setting” interface. This interface provides settings for language, sound, auto shut down, sport mode and backlight. You can select the corresponding setting options through the press of the speed buttons or the front and back movement of the joystick. The left and right movement of the joystick can make specific settings for the selected options. Then, press the “Confirm” button to make the settings take effect when the configuration is accomplished.

1. Language: Switch the language between Chinese and English (Fig. E4 and Fig. E5).
 2. Sound: Turn on/off the sound. There are three options for sound settings: turn on, turn half on and turn off. Turn on: turn on all the warning tones; Turn half on: turn off button operation sound and joystick operation sound; Turn off: turn off all the sound except the horn and the SOS sound.
 3. Auto Shut Down: The device will automatically shut down when there is no operation for a long time. When the auto shut down function is turned on, if the device hasn't been operated for 10 minutes, the joystick will prompt that it will be automatically turned off. If there is no operation 10 seconds later, the joystick will automatically shut down.
- Sport Mode: Adjust the movement control curve of the wheelchair. There are three modes: soft, normal and powerful.
4. Backlight: Adjust the brightness of the LCD backlight.

Menu Button



E4



E5

Control Joystick



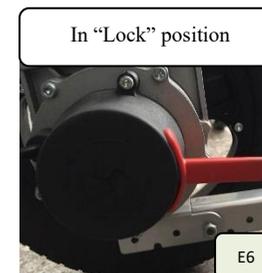
1. When operating the wheelchair for the first time, it is recommended to move the wheelchair at a low speed gently and gradually pushing the control joystick forward. The practice will help you familiarize yourself with controlling the speed and start and stop of the wheelchair. ★★★
2. Set the control panel properly.
3. Do not do sharp turns at high speeds.
4. Fail to follow the warnings may result in tilting and causing serious bodily injury and property damage.
5. The control joystick on the control panel controls the speed and direction smoothly and provides 360 degrees of omni bearing maneuverability comfortably and effortlessly. A spring is equipped inside the joystick which automatically returns to its original middle position.
6. Push the joystick towards the target direction. The joystick can control the drive proportionally, the harder the push, the faster it goes. The max traveling speed is 6km/hr (3.75miles/hr).
7. Release the control joystick slowly and gradually for the wheelchair to slow down safely. The wheelchair will automatically slow down and minimize the corrective direction.

Turn left

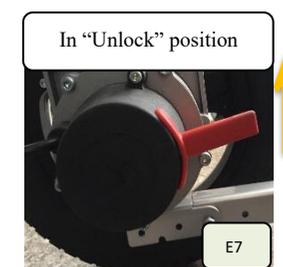
Reverse

Electromagnetic Unlocking Valve

The electromagnetic unlocking valve has two modes. Please ensure it is in “Lock” position (Fig. E6) before using. Otherwise, it will cause security risks.



E6



E7

Electromagnetic Unlocking Valve / Manual Mode Knob

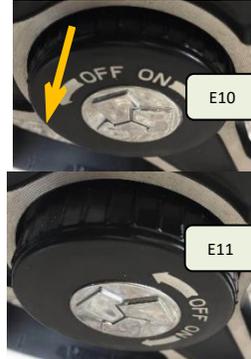
- As shown in Fig. E6, electromagnetic unlocking valve is in the lock position with the pristine condition. When the wheelchair is out of power, the electromagnetic unlocking valve works and the wheelchair brakes urgently, which avoids the risk that the wheelchair slips off the slope without being controlled.
- As shown in Fig. E7, when the wheelchair motor is out of power, electromagnetic unlocking valve can be pushed upwards to the unlock position, which allows the wheelchair to be moved manually. (Please push downwards the electromagnetic unlocking valve to the lock position after manually moving.)



Manual mode knob is off



Manual mode knob is on



Manual Mode Knob ★

Manual mode knob has two modes. Before using the power wheelchair, please ensure that the manual mode knob is off (Fig. E8), otherwise, the wheelchair will not work properly or even cause hazard.

- As shown in Fig. 8, the manual mode knob is off before your first use. By using the joystick, the motor can be controlled to move the wheelchair. In this case, the wheelchair cannot be manually pushed by the caregivers. When stopped on the ramp, the wheelchair will not slip off. **(For ensuring the users' safety, the manual mode shall be off without the caregivers pushing the wheelchair)**
- As shown in Fig. E9, the manual mode knob can be rotated about 90 degrees towards "ON" position, when the wheelchair is out of power or needs to be manually pushed by the caregivers. As shown in Fig. E10 and Fig. E11, the manual mode knob is on. (The figure shows the right side of the motor, the left side is opposite) In this case, the wheelchair can be pushed without using joystick. **(Users shall switch off the manual mode knob without the caregivers pushing the wheelchair, in case of slipping off the slope as the joystick is ineffective.)**

⚠ WARNING

- The manual mode knob shall be off without the caregivers pushing the wheelchair.
- Users shall fasten the seat belt when the manual mode knob is on. Caregivers shall not leave the user alone. The pushing speed shall not be fast.
- The wheelchair shall be less pushed on the slopes. The pushing speed shall be slow.
- When finishing pushing the wheelchair, the manual mode knob shall be off in the opposite moving direction of Fig. E7 in time.**

Battery



Keep tools and other metal objects away from both ends of the battery. If contacted, short-circuit or electric shock may occur and cause injury.



Avoid flammable materials. Avoid exposure to heat sources such as open flame or sparks.



Corrosive substance is contained in the battery. Do not disassemble the battery.



Do not short-circuit the battery or put the battery into the fire to avoid an explosion accident.

⚠ WARNING

- Do not attempt to connect the battery terminal directly using pliers or metal cables to charge the battery.
- Do not use the wheelchair when the battery is being charged.
- ★ Do not use non-standard power supply (eg. generator or inverter).
- ★ Prevent the power cord from being stepped on, crushed and severely bent, especially at the port part. Prevent the power cord from being yanked and knotted.
- Keep children and pets away from the power cord and don't let pets bite and chew the source line. When pulling the power cord, please hold the plug and pull it out.
- If there is any issue with the circuit breaker, pull out the charger immediately and contact your contributor or professional technicians.
- The electronic locking anti-drive device will be activated that prevents the chair from operating when battery being charged.
- The battery warranty and performance indicated in the guide are only suitable for Li-ion Battery.
- Do not smoke or ignite anything around the battery.
- The operating temperature of the battery ranges from -5°C - 40°C



CAUTION

- ★ Always check if the battery is fully charged before use. The regular charging time is about 5 hours. But if the power is fully run out it may take 7-8 hours to charge fully until the red LED on the charger turns green.
- ★ You shall charge the wheelchair after using until the charger indicator turns green. When not using the chair for a long duration, charge the battery full every 2 months. If the battery is left uncharged for a long period of time, it will damage the battery permanently.
- Do not use the batteries with incorrect specification, voltage and capacity that may damage your wheelchair and affect the performance.

Battery

Mounting/Removing Battery

⚠ WARNING

Ensure the wheelchair is powered off before mounting or removing the battery. Press the button (Fig. F1), pinch the battery and pull it out of the battery holder.

Mounting the battery:

Battery jack faces inward, and the battery button faces upward. Hold the battery pack and plug in the battery holder with the battery groove aligned to the aluminum sheet of the battery holder (Fig. F2). When the button is fully matched with the holder, the battery has been mounted firmly (Fig. F3).



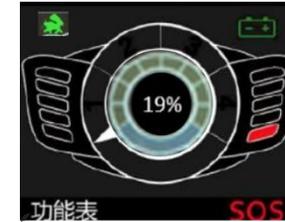
Charging the Battery

1. The battery can be charged with normal AC power (AC 110-220 V, 50-60 Hz). The charging port is located under the front part of the control panel.
2. Before charging, ensure the wheelchair is powered off.
3. **Plug the charger into the charging port under the front part of the control panel (Fig. F4), or unplug the battery and plug the charger into the charging port of the battery (Fig. F5).**
4. Plug another end of the charger into the power socket. When the red LED is on, it is charging. **Do not use the wheelchair when the battery is being charged.** ★
5. When the LED on the charger changes from red to green, keep charging for an additional 30 minutes to allow the battery to be fully charged. Unplug the charger from the power outlet before unplugging from the charging port of the control panel.
6. Please charge the battery in an appropriate temperature. The recommended ambient temperature for charging ranges from 5° C to 40° C.

Battery

Over-discharge Protector

- ★ The lithium battery will be permanently damaged, if the battery's capacity has been completely discharged. Therefore, wheelchair is equipped with an over-discharge protector. When the lithium battery is running out, the protector will cut off the circuit automatically and the controller will stop working. So the users should be noted that when the lowest level red LED light on the battery level indicator flashes, it means that the battery needs to be charged. If not, the battery cannot be activated by the charger, which may lead to the permanent damage of the battery.



When the power is lower than 20%, the red LED light on the battery level indicator will flash, which reminds the users that the battery needs to be charged immediately. The controller automatically limits the speed 1 when the power is less than 10%, and the electric wheelchair automatically shuts down when the power is 0%

Over-current Protector

- ★ The power wheelchair is also equipped with an over-current protector. If the current supplied to the motor is too high, the over-current protector will cut off the current supply. If crossing over a slope over 12 degrees or the load is over 150kg or the motor rotation is jammed, the over-current protector will be activated and the wheelchair's control will cut off the circuit to prevent overcurrent and overheating of the m

Battery Socket Cleaning

1. Check the battery pack and the positive and negative poles for any corrosion. If any, clean the charging port with battery cleaning tools, such as steel brush and medium sand paper.
2. Clean up all the metal objects carefully.
3. Check if the battery and the plastic battery pack are assembled appropriately.

- ★ Note : Do not allow the substance inside the battery contact with your skin, clothes or other items. The acidic substance is extremely hazardous and may cause serious burn. When contacted, immediately flush your skin with cold water. If the condition is severe or the substance contact with your eyes, please seek medical attention im

Unfolding

Unfolding Steps

If the wheelchair needs to be unfolded to use after the first unpacking or foldable store, please follow these steps:

1. As shown in Fig. G1 and Fig. G2, turn up the footrest, then, pull up the upper backrest with pinching the folding hand knob. At the same time, lean forward the wheelchair to make it slowly unfold. After that, as shown in Fig. G3, push forward the seat cushion to make the wheelchair fully opened.

2. The control panel shall be mounted when first unpacking the wheelchair. You can refer to the instruction on Mounting the Control Panel. (or refer to the videos)



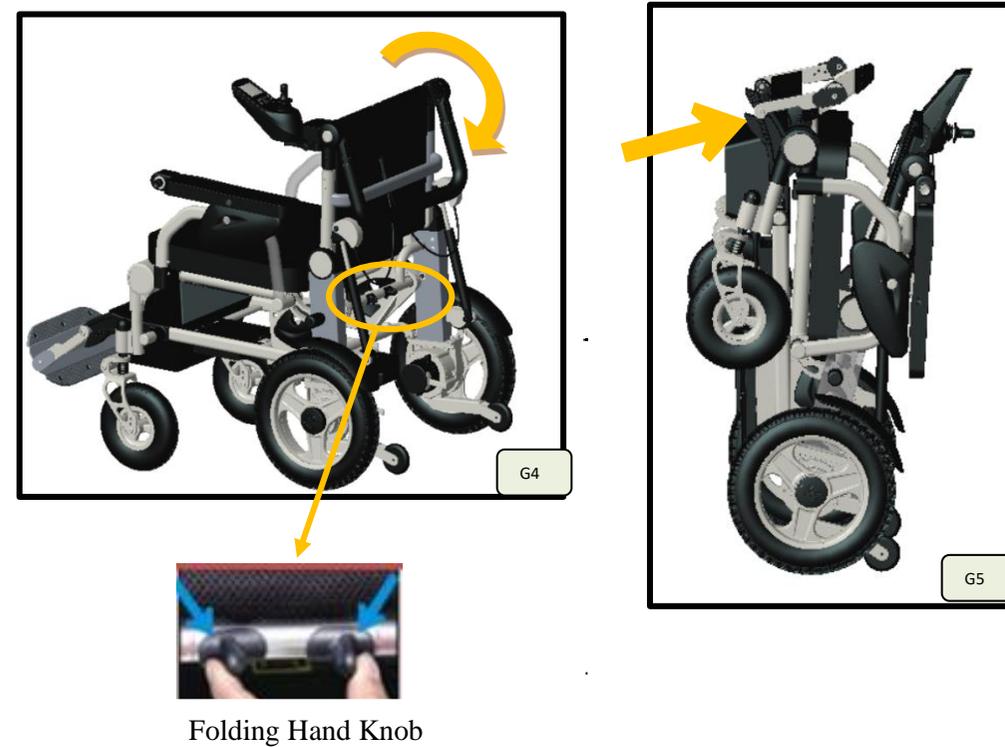
Folding

Folding Steps

For storing and transporting the wheelchair, please follow these steps to fold it after using:

1. As shown in Fig. G4, adjust the upper backrest to the lowest level by pinching the backrest adjusting knob. Pinch the folding hand knob, then, push the backrest slightly forward.

2. As shown in Fig. G5, pull the front frame and move the footrest back to the front end of the seat cushion, making the wheelchair folded. Then, the wheelchair can stand steadily through the rear wheel and anti-tipping wheel. (If the wheelchair cannot be fully folded, please adjust the front wheel to the proper angle. You can also refer to the videos.)

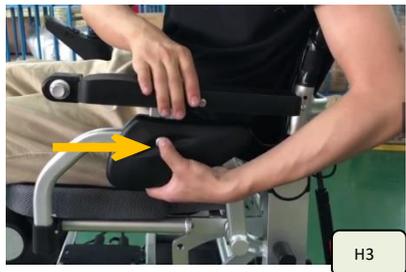
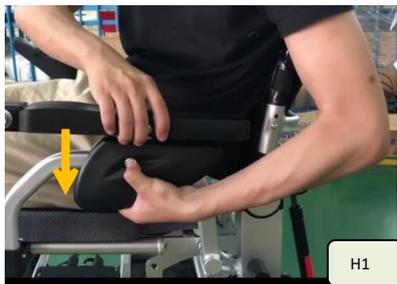


Armrest Adjustment/Backrest Adjustment

Armrest Adjustment

The height and position of the armrest can be adjusted as follows:

1. Up and down adjustment: As shown in Fig. H1 and Fig. H2, press the adjusting button, then you can move the armrest up and down. Once you release the button, the position will be locked.
2. Front and rear adjustment: As shown in Fig. H3 and Fig. H4, press the adjusting button, then you can move the armrest back and forth. Once you release the button, the position will be locked.

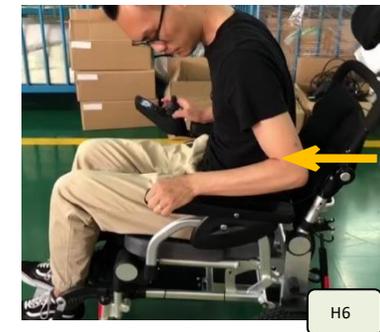


Backrest Adjustment

The backrest can be adjusted by the adjusting button as follows:

1. As shown in Fig. H5, Press the backrest adjusting button and gently press the backrest. When it reaches the proper position, release the button, and the backrest will be locked.
2. As shown in Fig. H6, Grasp the armrest and straighten the back. Then, press the adjusting button, the backrest will be reset. Or you can release the adjusting button at any position and once you release the button, the position will be locked. (Note: The backrest can be adjusted when the back button is pressed.)

Backrest Adjustment/Controller



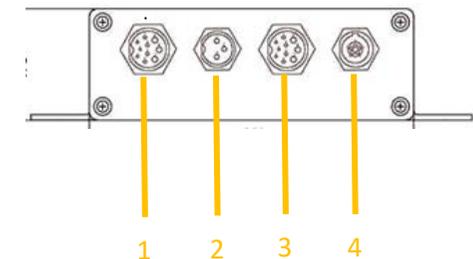
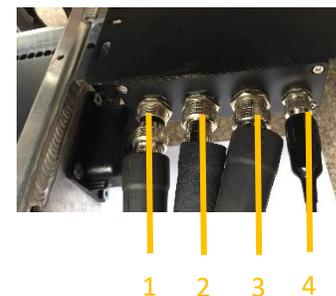
★ Notes:

1. It is prohibited to drive the motor when the backrest is adjusted to a lower position to prevent the wheelchair from tipping over. ★★★
2. It is prohibited to adjust the backrest on the slope to prevent the wheelchair from tipping over. ★★★
3. When the backrest cannot be adjusted by pinching the adjusting button, please contact the distributor to adjust the tightness of the traction lock.

Controller

There are four external interfaces for controllers in all, which are described in detailed as follows:

1. Interface 1 is for the right-side motor interface. When the right motor fails to drive, please check if the right-side interface is tightened.
2. Interface 2 is for the power interface. If the circuit is abnormally powered off, please check if the interface is in poor contact, and tighten the securing ring.
3. Interface 3 is for the left-side motor interface. When the left motor fails to drive, please check if the left-side interface is tightened.
4. Interface 4 is for the joystick interface. When the current fails to input, please check if the interface is in poor contact, and tighten the securing ring.



Troubleshooting Table

No.	Problem Cause		Solution
1	Power	1. Faulty connection of the control panel and the connector.	Re-plug the 5 – pin plug into the socket at the side of the wheelchair.
		2. Low power supply, the power cut off automatically	If the power is off automatically, the batteries must be recharged within 2 hours, and charged for 7-8 hours.
		3. Fault of the 4 – pin plug connecting to the battery	Pull out the battery and check the contact for any fault and re-insert the battery.
2	Control Panel	1. The battery life indicator displays red alarm: low battery power.	Charge the batteries immediately.
		2. The control panel does not display.	Reconnect the plugs of the two ends of the control panel cable, or replace the control panel.
		3. Communication failure: the controller broadcasts the malfunction sound. The center icon is the exclamation mark. The wheelchair cannot drive.	Power off the wheelchair. Then check if the plug connection of the controller is loose. Reboot after fastening.
		4. The center icon display left/right wheel malfunction. The wheelchair is unable to drive. Left/right motor is broken.	Re-insert and tighten the motor connector and check if the motor unlocking button is locked. If the problem cannot be solved, please contact the distributor to repair.
		5. The electromagnetic brake is in “Unlock” position and the wheelchair cannot move.	Push the electromagnetic brake lever to “Lock” position.
3	Manual Mode Knob	1. The power wheelchair cannot move when using the joystick.	Refer to the instruction of Manual Mode Knob: Switch the manual mode knobs of both sides to the “OFF” position. If the problem cannot be solved, please contact the distributor to repair.
4	Motor	1. Noise and vibration occur in the running course of the motor.	Contact the customer service.
5	Battery Life Decreases	1. Drive in the Low temperature environment below zero centigrade.	It is normal as this is the characteristics of lithium batteries.
		2. Drive on the slopes or rough roads.	It is normal as driving on these places can accelerate battery consumption.
		3. Battery use has exceeded its service life.	Contact customer service to replace the battery.
6	Charging	1. Faulty connection of the control panel and the battery connector.	Reconnect the 3 – pin plug into the battery connector at the side of the wheelchair.
		2. Controller is damaged.	Contact customer service to replace the controller.
		3. Charger plug is damaged.	Contact customer service to replace the charger plug.
		4. Charging plug is loosened.	Recheck and firmly reconnect.
7	Fail to Start When Power On	After not using for a period or the over-discharge protector is activated.	Power on again after charging. If the problem cannot be solved, please contact the distributor to repair.



Left-side Motor Fault: Unable to communicate with the left wheel drive; Left-side motor is broken.
Solutions : Power off the wheelchair. Then reboot it after fastening the motor plug. If the problem cannot be solved, please contact the distributor to repair.



Overheat: The internal temperature of the driver or controller is too high, which may cause a malfunction and the wheelchair may not work properly.
Solutions: Power off the wheelchair and wait 10 minutes before rebooting. If the problem cannot be solved, please contact the distributor to repair.



Button failure: The button is in error state.
Solutions: Contact the distributor to repair.



Right-side Motor Fault: Unable to communicate with the right wheel drive; Right-side motor is broken.
Solutions : Power off the wheelchair. Then reboot it after fastening the motor plug. If the problem cannot be solved, please contact the distributor to repair.



Communication failure: The wheelchair cannot drive. Communication system is broken. The center icon is the exclamation mark.
Solutions: Power off the wheelchair. Then check if the plug connection of the control panel is loose. Reboot after fastening. If the problem cannot be solved, please contact the distributor to repair.



Joystick Failure: The center icon displays joystick malfunction.
Solutions: Keep the joystick in the middle position and reboot the wheelchair. If the problem cannot be solved, please contact the distributor to repair.

Warranty:

Items		
Main Frame	5 years	Incorrect use, damaged or modified by the user will void the warranty and the repair costs will be charged.
Motor	2 year	Damaged due to overload or disassembled by the user privately will void the warranty
Lithium Battery	1 year	Incorrect charging or disassembled and damaged by the user will void the warranty
Controller	1 year	Incorrect use, damaged or modified by the user will void the warranty and the repair costs will be charged.
Control Panel	1 year	Incorrect use, damaged or modified by the user will void the warranty and the repair costs will be charged.

Warranty Exclusions

1. The warranty exclusions extend to the following items:

- a) Backrest cushion, seat cushion, the foamed cotton of the armrest and the backrest and other decorations are damaged due to normal wear and tear.
- b) Modifications made to the wheelchair without consent.
- c) Components are damaged due to overload.

2. If the serial number on the wheelchair is not original or is modified, warranty will be voided.

To the extent permitted by law, this warranty instruction supersedes any other warranties (such as writing, oral, expressive or implicit warranties, including warranties of any merchantability or applicability of special purpose), for any conflicts between the same, this warranty instruction shall prevail.

Packing List

Items		
Main Frame	1	/
Lithium Battery	1	/
Control Panel	1	/
Charger	1	/
Owner's Manual	1	/
Storage Basket	1	/
Certificate of inspection	1	/