

decon
mobility



SMARTCHAIR
MAX-D

Product Manual

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1. Guidance for use

Dear customer.

Thank you for choosing KD's power wheelchair PL001-8002 Double Footrest.

This product has excellent qualities of safety, comfort and portability in design and manufacture. It will help you regain your mobility, and will be your most trustworthy and dependable friend.

This product is driven by dual 250w brushless DC motor and can be used both indoors and outdoors. (the ambient temperature should range from -5°C to 45°C). The power wheelchair is ultra-compact, light-weight, foldable and portable.

Do not operate the power wheelchair without prior reading and understanding of the 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.

The manual will systematically show you the performance, operation mode and proper maintenance of the electric wheelchair. If you need further help and advice, please contact your distributor or manufacturer to get better guidance and assistance.

2. Safety signs

Familiarize yourself with the following signs, including warning labels, prohibition labels, and operation guidance labels can help you operate the PL001-8002 Double Footrest more safely and efficiently.

2.1 Labels on the frame

	Reverse Rotation		Forward Rotation		Towing Mode
	Safe		Lift		Rotation
	Warning Hands Pinching		Read and follow the instructions provided in this manual		Safety Warning Sign
	General-applied		Easily squeezed / Pinch point		Store in a clean and dry condition
	Test of EMI/RFI at an immunity level of 30 V/m has been passed				

2.2 Labels on the battery

	Charging Position		Air Consignment Permit		Recycling
	Battery Disposal		Flammable Material		Short Circuit
	Corrosive Substance				

3. Electromagnetic interference

The power wheelchair may be affected by electromagnetic interference (EMI). Therefore, it's quite essential for users to familiarize the instructions. This section will explain the problems caused by known electromagnetic interference so that users can understand and take appropriate protective measures to avoid or minimize risks.

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, It has high anti-interference ability and has a certain degree of immunity the most common electromagnetic energy sources in life.

For the sake of safety, please try to avoid being close to the radio wave source, such as radio, television. If uncontrolled movement occurs when you use this device, please turn off the power in time.

4. Technical specification

General Specification

Dimensions (Unfolded): L x B x H	1 010 mm x 620 mm x 945 mm
Dimensions (Folded): L x B x H	400 mm x 620 mm x 1050 mm
Maximum load	150 kg
Net Weight	33,1 kg (with battery) / 30,6 (without battery)
Maximum Climbing Angle	6°
Full Charge Mileage	≥15 km (in standard condition)
Max Speed	7.5 km/h
Turning Radius	980 mm
Maximum Obstacle-crossing Height	40 mm

Motor

Type	Brushless DC Motor
Rated Power	250 W
Input Voltage/ Current	24 V DC
Qty	2
Break System	Intelligent Electromagnetic Brakes
Breaking Distance	At max speed: <1m

Battery

Type	Lithium Battery
Nominal Capacity	12 Ah
Output Voltage	24 V DC
Qty	1

Styrenhet

Type	Brushless Dual-drive Rocker Controller
Input Power	280 W
Input Voltage/ Current	DC 24V/12A Peak Value: 15A

Front Wheel

Wheel Diameter x Tire Width	200 mm x 50 mm
Type	Solid Tire
Material	PU
Qty	2

Rear Wheel

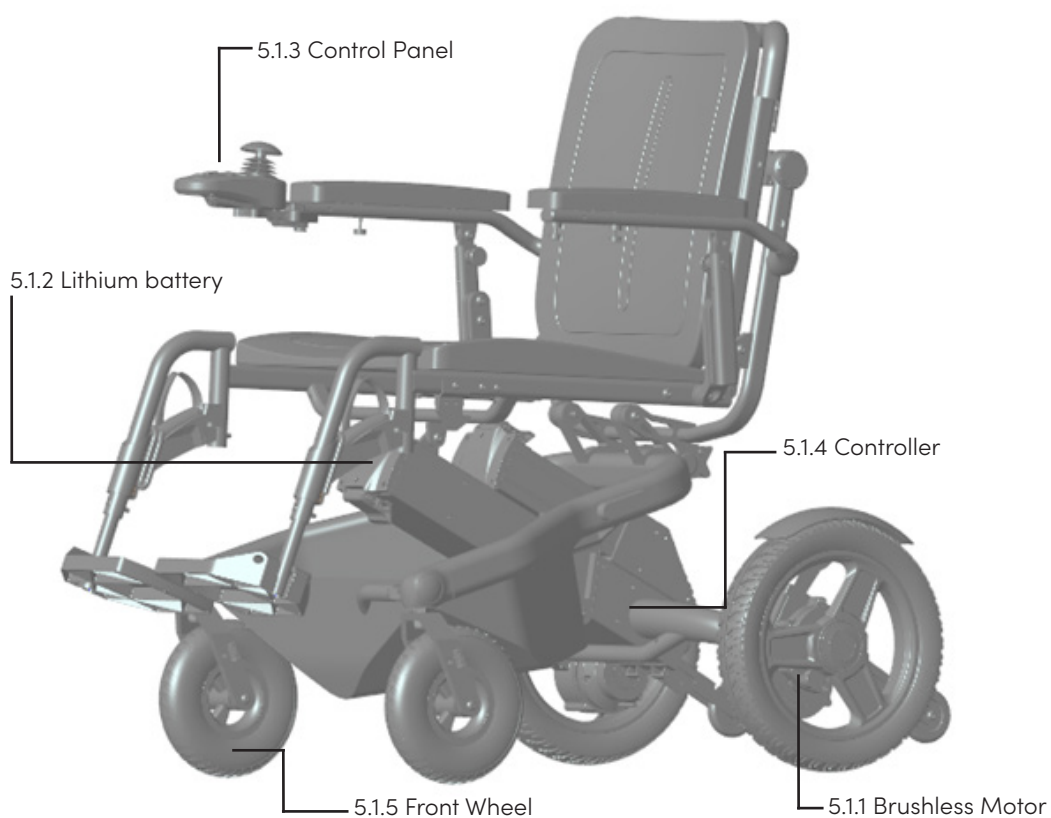
Wheel Diameter x Tire Width	300 mm x 55 mm
Type	Solid Tire
Material	PU/ Rubber
Qty	2

5. Product features

5.1 Main components

This part mainly introduces the core components of the power wheelchair, Familiarity with these components allows you to understand your equipment more quickly and can describe and solve problems in case of equipment failure.

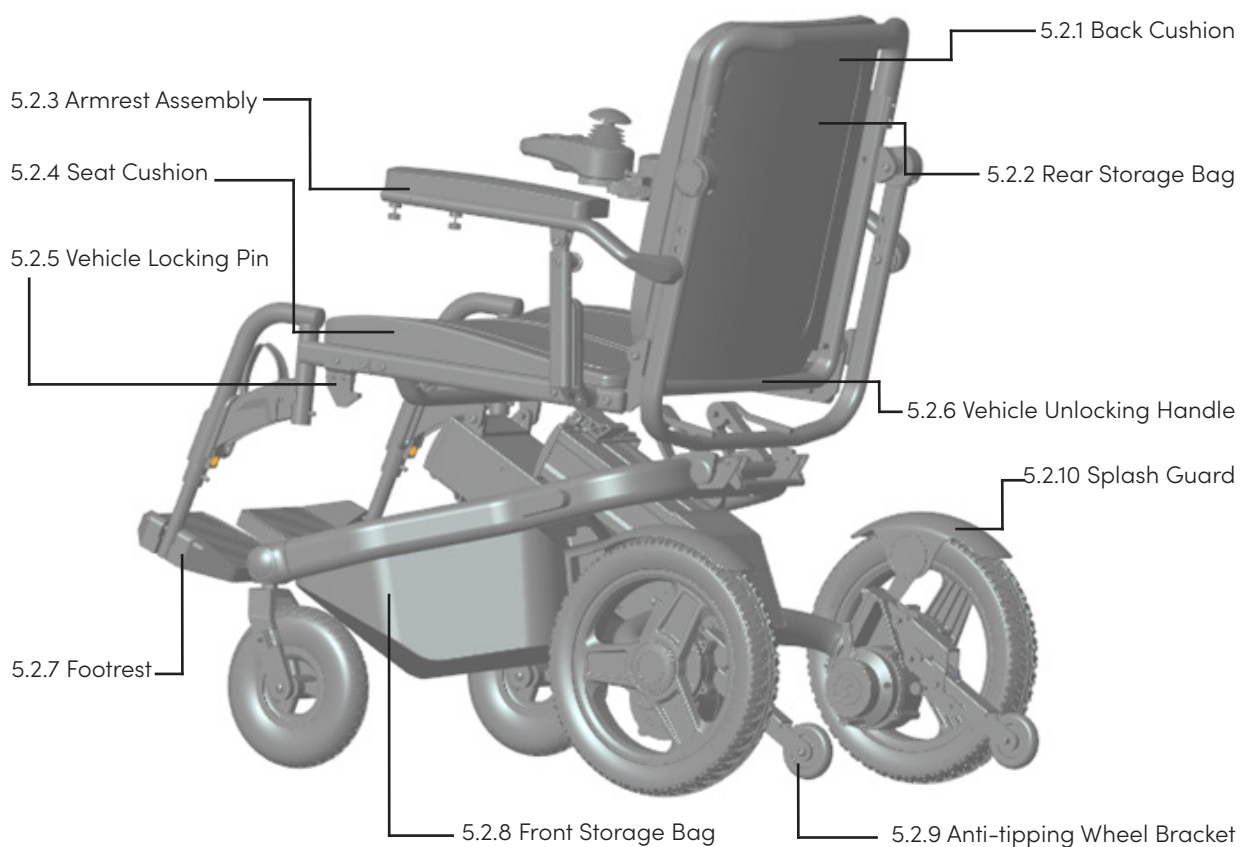
- 5.1.1 DC Brushless Motor
- 5.1.2 Battery
- 5.1.3 Control Panel
- 5.1.4 Controller
- 5.1.5 Front Wheel



5.2 Non-core components

This part mainly describes the non-core components of the power wheelchair. Through these components, you can better understand the detailed features of the equipment.

- 5.2.1** Back Cushion
- 5.2.2** Rear Storage Bag
- 5.2.3** Armrest Assembly
- 5.2.4** Seat Cushion
- 5.2.5** Vehicle Locking Pin
- 5.2.6** Vehicle Unlocking Handle
- 5.2.7** Footrest
- 5.2.8** Front Storage Bag
- 5.2.9** Anti-tipping Wheel Bracket
- 5.2.10** Splash Guard



6. Safety



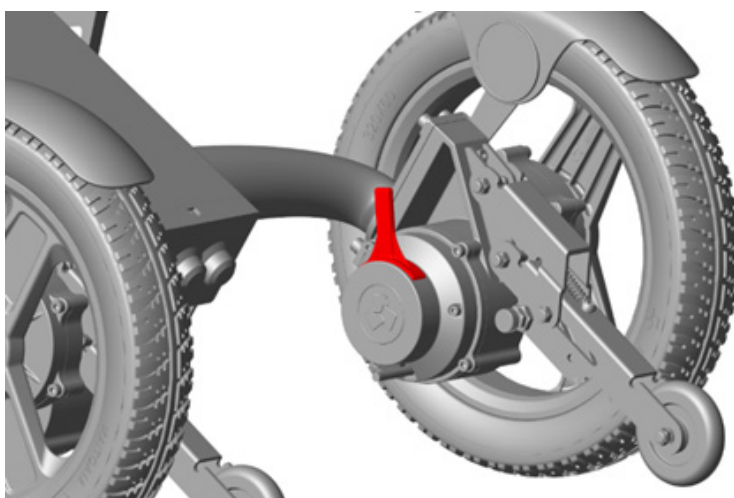
6.1 About users

1. For the first use, you should be given professional training and guidance on safe use by caregivers. You shall practice operating the power wheelchair with the aid of the caregivers until you are confident enough to independently, skillfully and safely perform the operations, such as moving forward, turning, crossing obstacles, braking, etc..
2. You shall first know about the use method and precautions of the power wheelchair, and carefully read the precautions in the manual before using it.
3. 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.
4. You shall check the operating site in advance, identify the safety in the area and make preparations for taking protective measures against the risk. If you cannot ensure safe use, please contact the dealer or after-sales service for advice. 



6.2 About caregivers

1. 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 pull the electromagnetic unlocking valve (Figure 6.2.1) to the Free wheel or Unlock mode to make the wheelchair in the manual state. In this case, the brake on the controller will not work at all.



6.2.1

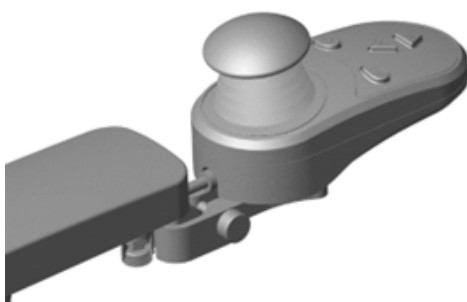
3. In addition, following issues shall be focused on when pushing the power wheelchair:
 - 3.1 You shall help users to keep their body in the correct posture in accordance with the dynamics of the human body, in order not to hurt users' back. You can slightly bend your knees and straighten your back vertical when lifting up users or inclined power wheelchair.
 - 3.2 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.
 - 3.3 When pushing in a straight line or turning sharply, you should reduce the pushing speed to prevent the wheelchair from overturning.
 - 3.4 You shall remind users to closely lean against the backrest, when you preparing to tilt the wheelchair backwards. You shall slowly move the power wheelchair down the steps, in case of making users injured as well as damaging the wheelchair itself.

6.3 Control panel

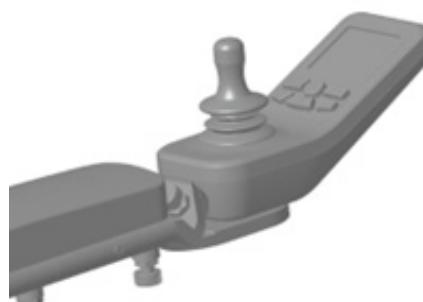
PL001-8002 Double Footrest provides you with the front and rear adjustment function of the control panel (Figure 6.3.1), you may need to adjust the controller to the place you think is comfortable, and at the same time, in order to avoid damage to the controller due to collision, which may cause hidden danger of safe driving, you may need to:

1. Adjust the position of the controller properly to avoid collision.
2. Reduce the speed as much as possible when driving in narrow places.
We recommend that you check the safety design of your control panel at the dealer every six months.

The images show two alternative joysticks



6.3.1a



6.3.1b

6.4 Static position

When the power wheelchair is inactive, please be sure to briefly press the shutdown button to turn off the power, (Figure 6.4.1) which can:

1. Prevent the control panel from being activated by accidental touch, which may cause the wheelchair to move unintentionally.
2. Prevent the wheelchair from electromagnetic interference sources which may activate the wheelchair's operation system.
Meanwhile, Please do not allow anyone but you to touch the control panel to prevent the unexpected movement of the wheelchair that may cause injury

The images show two alternative joysticks



6.4.1a



6.4.1b

6.5 Using environment

6.5.1 Applicable Environment

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.

6.5.2 Driving in Traffic Environment

1. Please observe local traffic regulations when driving on public roads.
2. For increased visibility at night, the wheelchair has light reflecting markers (Fig.6.5.2.1)
3. Users can also wear reflective clothing.
4. When operating the wheelchair in traffic among 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.



6.5.2.1

6.5.3 Unsuitable Environment

1. This power wheelchair shall not be used or stored in environments of rain, snow or icy.
2. 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. If the power wheelchair has been soaked, please take out the battery as soon as possible and use it after the wheelchair is completely dry.
3. To prevent malfunction, please adhere to the guidelines as follows:
 - 3.1 Try to avoid placing or using this electric wheelchair in environments that are directly impacted by water (e.g. heavy rain) or very humid environment.
 - 3.2 Please do not use the wheelchair while showering, swimming, etc.
 - 3.3 Please do not use the wheelchair around any water sources (e.g. river, lake, sea, etc.).
 - 3.4 Replace the control panel if it is damaged to prevent safety problems caused by internal short circuit.
 - 3.5 Ensure that all electrical connections are safe and non-loose.
4. When operating on wet or slippery surfaces, please carefully move at a slow speed.
 - 4.1 When any of the motor wheel losses traction, the wheelchair must be stopped immediately to avoid losing control.
 - 4.2 Do not drive into slopes or ramps covered with snow, ice, water, oil, etc.
5. Please ensure the power is off when finish using, make the batteries full-charged and keep the wheelchair clean and dry.

6.6 Vehicle transport

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.
5. 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:
 1. Height and angle of the seat.
 2. Seating position, or weight loading position of the user's body.
 3. Whether backpacks or other items are placed on the backrest of the wheelchair that may change the total weight and weight distribution.

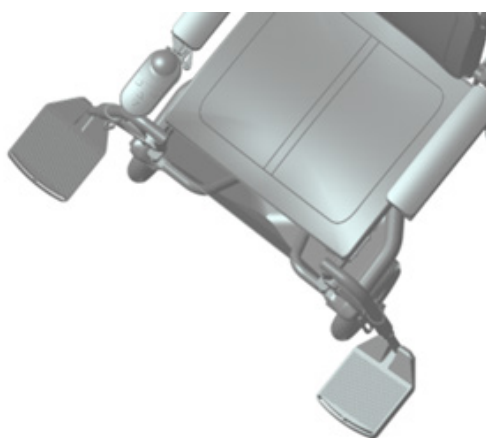
If you need to modify or adjust the power wheelchair, please consult your supplier in advance and obtain the manufacturer's authorization. The modified wheelchair may require additional adjustments to correct the balance. Operate the modified wheelchair with special caution until you are familiar with the balance and the means to avoid falling or tipping over.



6.7 Getting on/off

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 electromagnetic unlocking valve is in "Lock" position and the wheelchair will not move on its own when subjected to external forces.
3. Consult your health care professionals about the safest way to move your body in and out of the wheelchair.
3.1 Learn how to position your body and how to support yourself while moving.
3.2 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. As shown in Figure (6.7.1), turn up the footrest with your hands or feet, then hold the fixed object to give yourself a suitable way to get on the wheelchair.
6. Please do not move your body by standing on the footrest, which will cause the wheelchair to flip forward, causing injury to your body. Lift the footrest up before you get on the wheelchair to avoid obstruction.
7. When you get off the wheelchair, please lift up the footrest first, or press the armrest unlocking button on either side, then pull the armrest and get off from the side (Fig.6.7.2).



6.7.1



6.7.2

6.8 Leaning

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. 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 against the top of the backrest to avoid tipping over the wheelchair and causing damage to the backrest.
7. If the user needs to wear clothes in the wheelchair, please ensure that the power is turned off to prevent the wheelchair from moving due to body rotation and touching the joystick by mistake, causing injury.

6.9 Crossing Over Obstacles

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. In order to prevent the electric wheelchair from tilting or overturning, we recommend that:

1. Remove or cover the doorsill with a slope to make the wheelchair climb and descend.
2. Position a ramp door.
3. When moving the wheelchair, please carefully check that the obstacles in the area you want to pass through meet the obstacle crossing ability of the power wheelchair.
4. Ensure that you can cross over the obstacles smoothly and safely while using the wheelchair.
5. To ensure your safety, you can adjust the center of the body weight in the following two ways:
 - 5.1. Lean your upper body slowly and slightly forward, when crossing over an obstacle with an ascending slope.
 - 5.2. Lean your upper body gently against the backrest, when crossing over an obstacle with a descending slope.

6.10 Driving on the Inclined Slopes

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

Caution, the slopes include hillsides or ramps. When you are not sure to use this power wheelchair safely on the slope, please seek others for help and try to avoid using it alone.

Following issues are needed to be extremely cautioned:

1. It is prohibited to drive on slopes over 6°.
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.

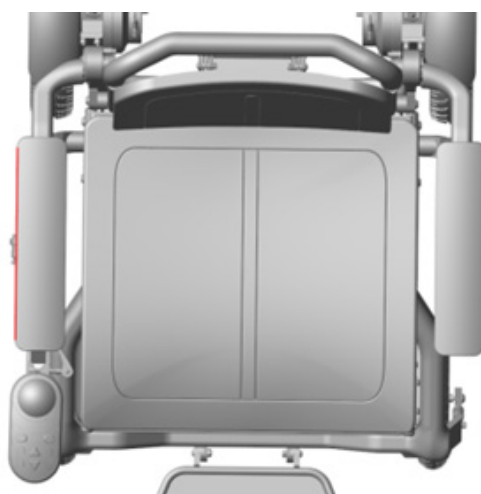
6.11 Load Limit

1. The max load of the wheelchair is 150kg, do not exceed the max load while using the wheelchair.
2. Under no circumstances should the users do weight training on 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.

6.12 Getting Up/Down Escalators

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

1. It is forbidden to use stepped stairs between floors, escalators (stepped elevators) to avoid serious personal injury.
2. 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.
3. Since the width of the 8002 Double Footrest handrail is adjustable in design, the maximum outer width of the handrail is 700mm (Figure 6.12.1), please ensure that the width of the elevator door is greater than 700mm to prevent jamming when entering and exiting the elevator.



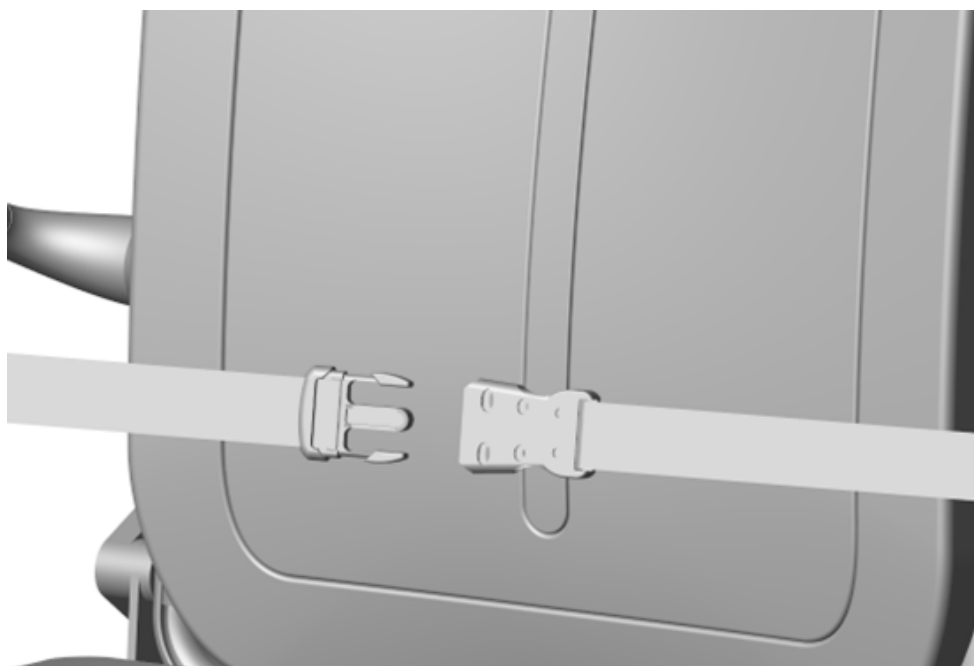
6.12.1

7. Installation guide

7.1 Positioning seat belt

When you use the power wheelchair, we recommend that you buckle your seat belt (Figure 7.1.1). As an important part, the seat belt can protect you from sliding down the seat.

You can adjust the tightness of the belt according to your body type by loosening the nylon belt at the base to ensure your comfort and safety.



7.1.1

7.2 Control panel

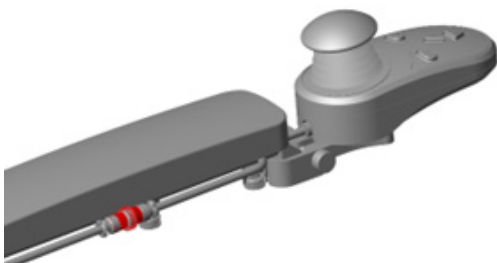
7.2.1 Mounting the Control Panel

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).

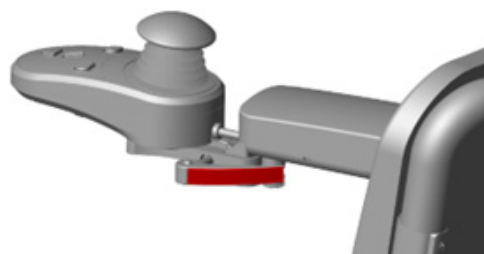
If you want to remove the joystick, you need to:

1. Rotate and loosen the rear extension connector first (Fig.7.2.1).
2. Then loosen the fixing clamp block (Fig. 7.2.2).

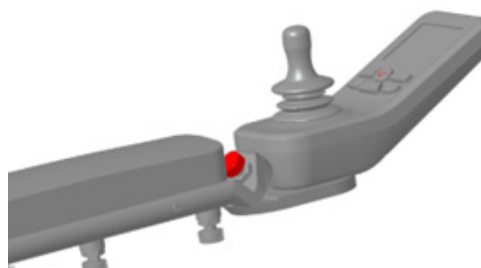
The images show two alternative joysticks



7.2.1



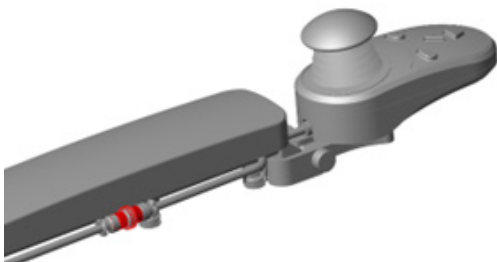
7.2.2a



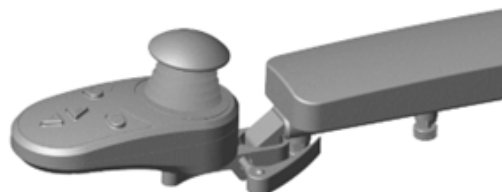
7.2.2b

If you want to fix the joystick, you need to:

1. Plug the control panel cable and the extended cable together (Fig.7.2.3) and rotatably fix them with the locking ring.
2. Fix the joystick to the clamp block (Figure 7.2.4).



7.2.3

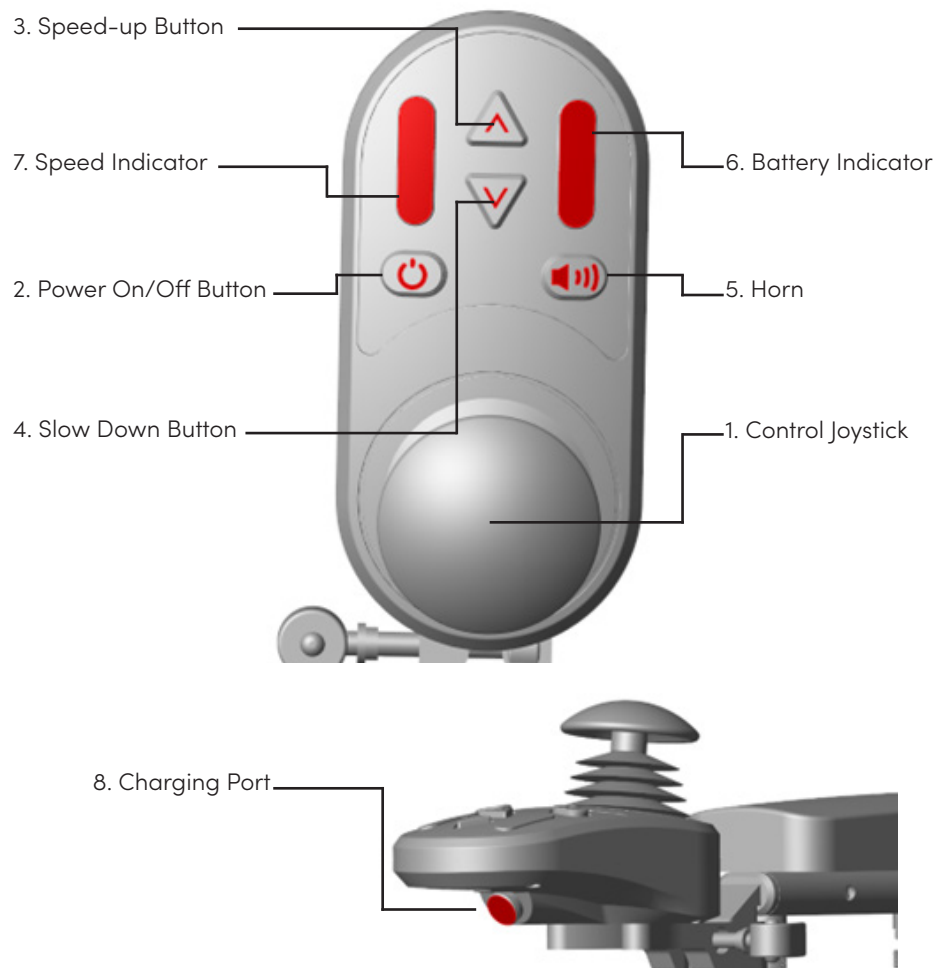


7.2.4

7.2.2 Operating the Control Panel

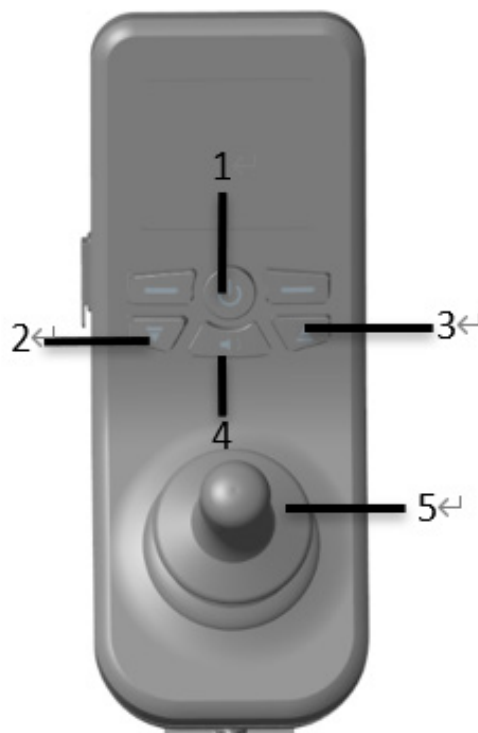
The operation of the power wheelchair is controlled by the buttons and joystick on the control panel, and the instructions for each button are shown below:

Joystick standard



1. **Control Joystick:** Control the direction and speed of the wheelchair. Push the joystick towards the desired direction
2. **Power On/Off Button:** Short press this button to turn on the power wheelchair, long press this button to turn off the power wheelchair.
3. **Speed-up Button:** Press this button to increase the speed, which has a maximum speed of 7.5 km/h.
4. **Slow Down Button:** Press this button to slow down.
5. **Horn:** Make a sound to remind the people around.
6. **Battery Indicator:** Indicate the real-time remaining battery.
7. **Speed Indicator:** With 1 LED light on, the wheelchair is at its lowest speed, 5 LED lights on, the wheelchair is at its max. speed.
8. **Charging Port:** You can charge the power wheelchair without removing the battery.

Joystick with COT function (Cumulative Operating Time).



1. **Power On/Off Button:** Short press this button to turn on the power wheelchair, press one more time to turn off the power wheelchair.
2. **Slow Down Button:** Press this button to slow down.
3. **Speed-up Button:** Press this button to increase the speed.
4. **Horn:** Make a sound to remind the people around.
5. **Control Joystick:** Control the direction and speed of the wheelchair. Push the joystick towards the desired direction

Joystick with COT function:

:

1. This function tracks the wheelchair's accumulated operating time during electric driving, measured in hours. It includes an automatic save function.
2. The accumulated operating time is displayed in the upper right corner of the joystick's LCD screen.
3. Each time the device is in electric drive mode, the COT is automatically updated.

In addition, if you are using an electric wheelchair for the first time, the following are some suggestions for you:

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 speed.
4. Fail to follow the warnings may result in tilting and causing serious bodily injury and property damage.
5. Push the joystick towards the target direction. The joystick can control the drive proportionally, the harder the push, the faster it goes.
6. 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.

The images show two alternative joysticks

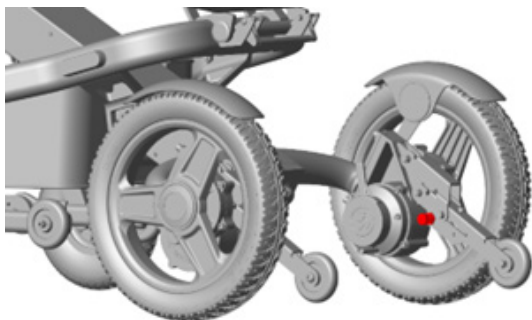


8. Folding funktion

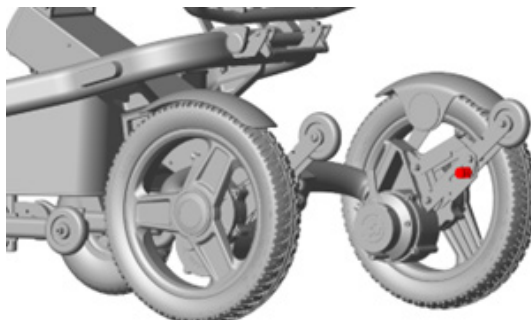
The PL001-8002 Double Footrest's folding and unfolding function is designed to be simple and robust, and you can quickly learn to fold and unfold with the guidance below.

8.1 Folding steps

1. Pull the anti-tipping wheel unlock button (Figure 8.1.1), the anti-tipping wheel will automatically fold up and lock through the spring in it, (Figure 8.1.2).



8.1.1



8.1.2

2. Lift up the unlocking handle of the wheelchair (Figure 8.1.3), and push the backrest forward after the locking lever is separated from the frame.



8.1.3



8.1.4

3. Push the wheelchair to the locking hook (Figure 8.1.5), and you will hear a clicking locking sound, which indicates that the vehicle has been locked, at this time, turn the foot pedal upwards and the vehicle can be folded and standing (Figure 8.1.6).



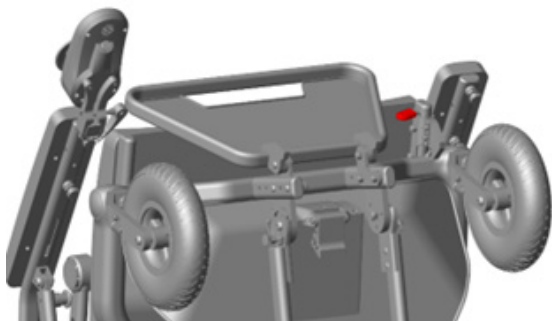
8.1.5



8.1.6

8.2 Unfolding steps

1. Pull the unlocking handle to get the locking hook out (Fig. 8.2.1), when the vehicle is unlocked, place the front wheels on the ground and pull the backrest upwards (Fig. 8.2.2).



8.2.1

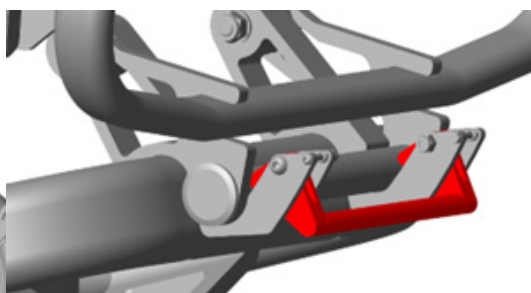


8.2.2

2. Pull the backrest until you hear a clicking locking sound (Figure 8.2.3), indicating that the vehicle has been deployed and locked. At this time, for safety reasons, please check whether the locking lever has been fully locked and has been completely wrapped by the locking handle (Figure 8.2.4).



8.2.3



8.2.4

3. Then, put down the anti-tipping wheel bracket (Figure 8.2.5) and the footrest (Figure 8.2.6), so that your wheelchair will be fully unfolded.



8.2.5



8.2.6

9. Adjustment function

To adapt to different body types, PL001-8002 Double Footrest is designed to fit ergonomics. Most of the data is taken from different parameters of human body, and is used as the parameter of different gears of adjustment functions, which means that the wheelchair can be more suitable for your body shape through some simple adjustments, avoiding secondary damage to the body due to your unsuitable position.

The following are the instructions for the adjustment functions of PL001-8002 Double Footrest. You can easily adjust it according to your own needs through the tools and the following instructions that we offer.

9.1 Backrest adjustment

By loosening the 2 screws at the upper end of the backrest, you can replace the backrest angle between 97 degrees (Figure 9.1.1) and 105 degrees (Figure 9.1.2).



9.1.1



9.1.2

9.2 Backrest height adjustment

By loosening the four set screws on the upper part of the backrest (fig. 9.2.1), you can easily adjust the backrest height between 450 mm and 510 mm (fig. 9.2.2).



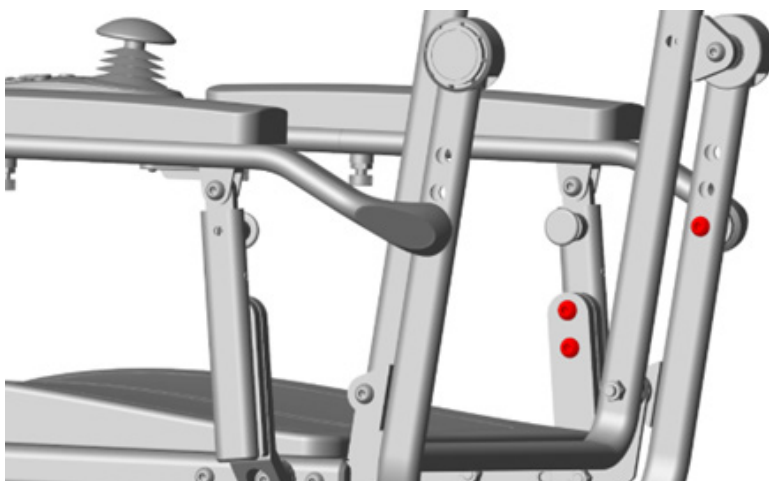
9.2.1



9.2.2

9.3 Armrest height adjustment

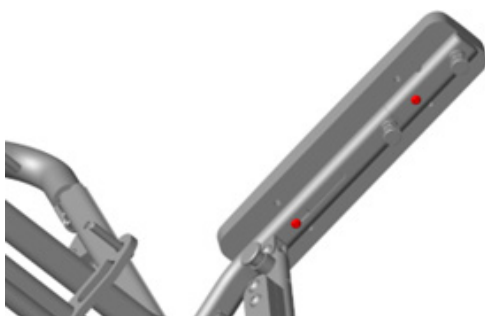
By loosening the three screws of the armrest on one side (Figure 9.3.1), you can freely adjust the height of the armrest between 220mm and 270mm according to the height of your arm.



9.3.1

9.4 Armrest width adjustment

By loosening the two fixing screws at the bottom of the armrest (Figure 9.4.1), you can fix the handrail to any transverse hole to change the width of the handrail (Figure 9.4.2) and increase the inner spacing of your armrest, which can be adjusted from 620mm to 700mm.



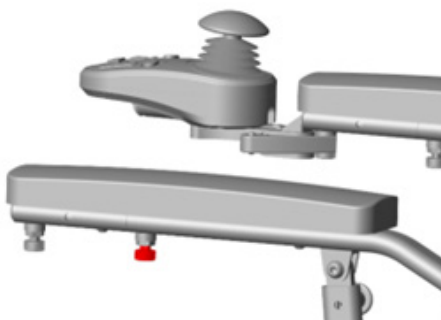
9.4.1



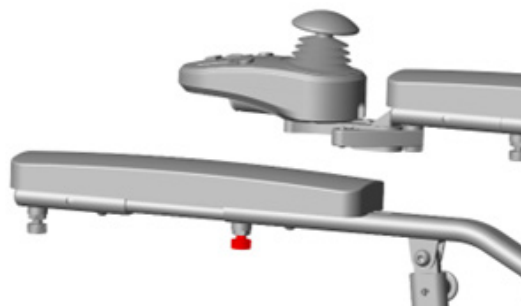
9.4.2

9.5 Armrest fore and aft adjustment

Through the quick release button (Figure 9.5.1) installed on the handrail, you can easily pull it to realize the quick fore and aft adjustment of the handrail (Figure 9.5.2), with a total adjustable distance of 60mm.



9.5.1

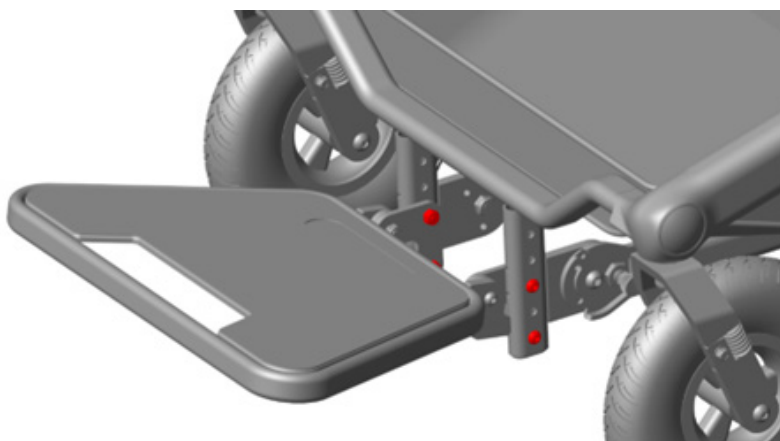


9.5.2

9.6 Footrest height adjustment

★Double Footrest does not have this function

By loosening the 4 screws at the footrest, you can adjust the height arbitrarily (Figure 9.6.1) from 450mm to 400mm.



9.6.1

10. Battery

10.1 Battery safety instructions



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. Do not transport with flammable or combustible items.



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.

When using the power wheelchair, we recommend that you:

1. Always check if the battery is fully charged before use. The regular charging time is about 5.5 hours. But if the power is fully run out it may take 6-7 hours to charge fully until the red LED on the charger turns green.
2. 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.
3. Do not use the batteries with incorrect specification, voltage and capacity that may damage your wheelchair and affect the performance.



As the battery is dangerous and explosive, to ensure your safety , we recommend that you:

1. Do not attempt to connect the battery terminal directly using pliers or metal cables to charge the battery.
2. Do not use the wheelchair when the battery is being charged.
3. Do not use non-standard batteries, even if their voltage and frequency appear to meet the requirements for use.
4. Prevent the power cord from being stepped on, crushed and severely bent.
5. Keep children and pets away from the power cord.
6. If there is any issue with the circuit breaker, pull out the charger immediately and contact your contributor or professional technicians.
7. The electronic locking anti-drive device will be activated that prevents the chair from operating when battery being charged.
8. The battery warranty and performance indicated in the guide are only suitable for Li-ion Battery.
9. Do not smoke or ignite anything around the battery.
10. The operating temperature of the battery ranges from -5°C - 40°C.

10.2 Mounting/removing battery

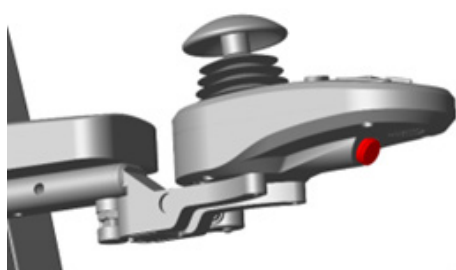
By pulling the battery unlocking block (Figure 11.2.1) with your finger, you can easily withdraw the battery from the frame for charging or other operations. If you want to put it in, you just need to align it with the frame and insert it. The battery will lock itself after it is inserted in place and will not come out.



10.3 Charging the battery

The PL001-8002 Double Footrest is equipped with dual charging ports, located below the controller (Figure 10.3.1) and below the battery (Figure 10.3.2), which you can charge in different ways according to your needs.

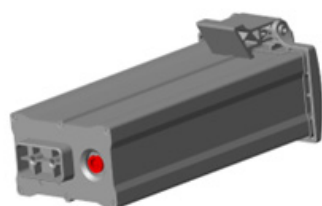
The images show two alternative joysticks



10.3.1a



10.3.1b



10.3.2

När du laddar batteriet rekommenderar vi följande:

1. The battery can be charged with normal AC power (AC 110-220 V, 50-60 Hz).
2. Before charging, ensure the wheelchair is powered off.
3. When the red LED is on, it is charging. Do not use the wheelchair when the battery is being charged.
4. 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.
5. Unplug the charger from the power outlet before unplugging from the charging port of the control panel or the battery.
6. Please charge the battery in an appropriate temperature. The recommended ambient temperature for charging ranges from 5° C to 40° C.

10.4 Battery protection

10.4.1 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.

10.4.2 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 6 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 motor.

10.4.3 Battery Socket Cleaning

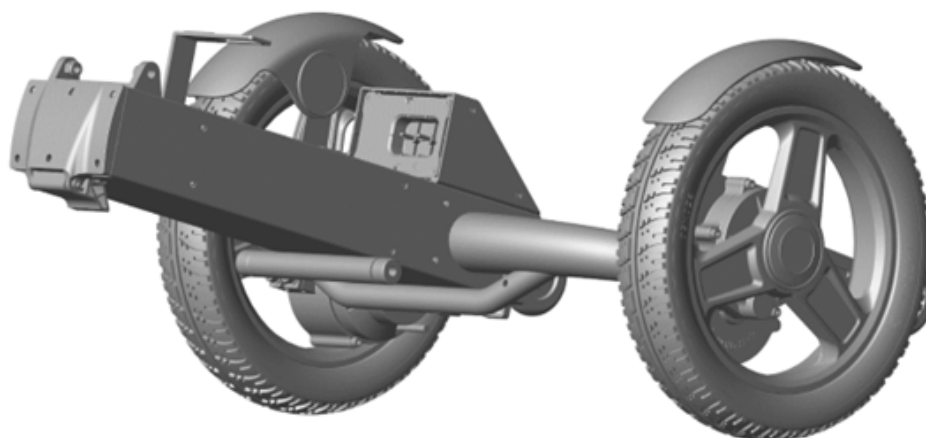
1. Check the battery pack and the positive and negative poles for any corrosion. If any, clean the charging port with battery cleaning tools, such as steel brush and medium sand paper.
2. Clean up all the metal objects carefully.
3. Check if the battery and the plastic battery pack are assembled appropriately.

NOTE!

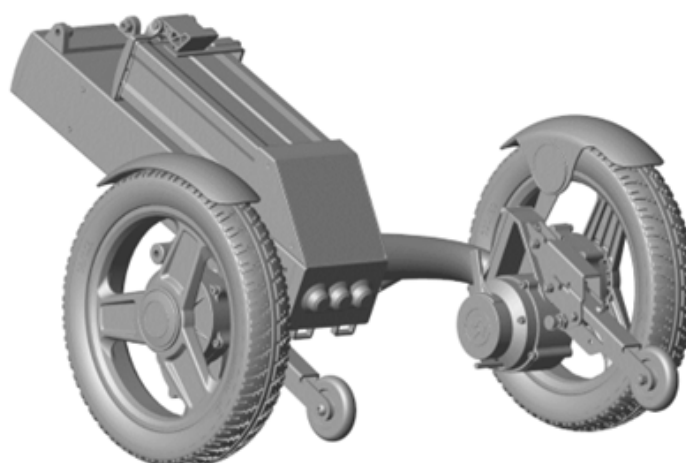
Do not allow the substance inside the battery contact with your skin, clothes or other items. The acidic substance is extremely hazardous and may cause serious burn. When contacted, immediately flush your skin with cold water. If the condition is severe or the substance contact with your eyes, please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

10.5 Dual Battery - optional

In view of the need for long endurance, we have designed the dual-battery option for PL001-8002 Double Footrest. It is equipped with another battery fixing device (Figure 10.5.1) on the top of the frame, realizing 24V12AH dual batteries in parallel (Figure 10.5.2) to meet the long-range needs of more than 30km. If you have any requirements in this regard, please contact your dealer to purchase this accessory.



10.5.1



10.5.2

11. Troubleshooting

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 disconnected, and the electromagnetic brake is in failure state	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.

12. Warranty

Main Frame	3 years	Incorrect use, damaged or modified by the user will void the warranty and the repair costs will be charged.
Motor	1 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.
Main Frame	3 years	Incorrect use, damaged or modified by the user will void the warranty and the repair costs will be charged..

The warranty exclusions extend to the following items:

1. Backrest cushion, seat cushion, the foamed cotton of the armrest and the backrest and other decorations are damaged due to normal wear and tear.
2. Modifications made to the wheelchair without consent.
3. Components are damaged due to overload.
4. The serial number on the wheelchair is not original.

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

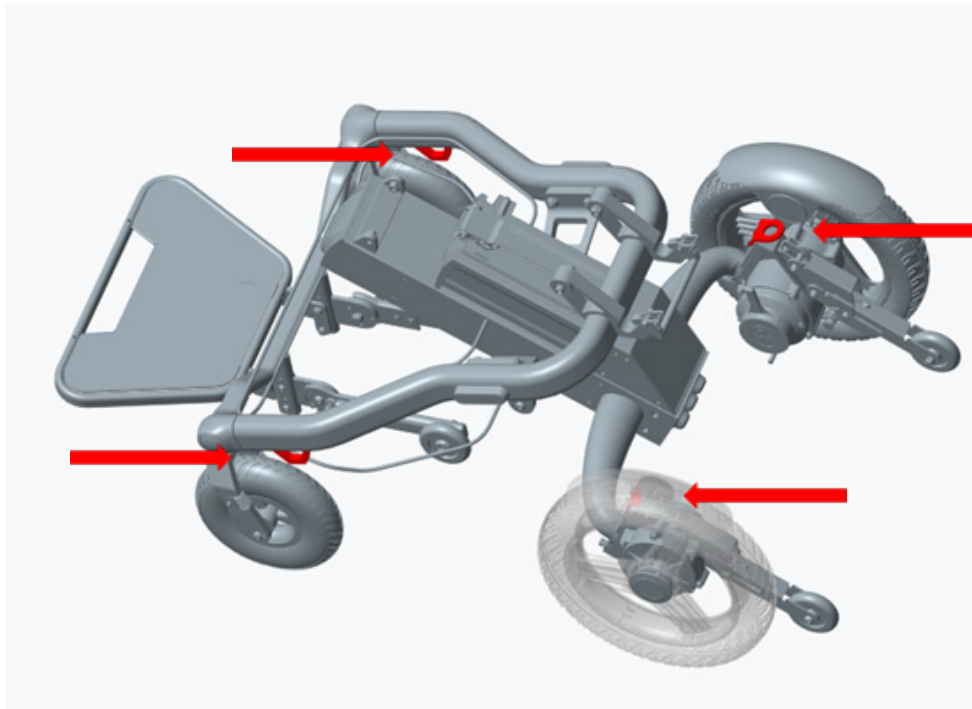
13. Packing list

Items	1	/
Main Frame	1	/
Lithium Battery	1	/
Control Panel	1	/
Charger	1	/
Product Manual	1	/
Storage Basket	1	/

14. Transport by private vehicle

This wheelchair is designed with four fixation points for you to secure it in your vehicle (red, Mirror symmetry). Please use these parts corresponding to the arrows in the picture provided.

NOTE: This wheelchair should not be used as a substitute for a car seat.



15. Cleaning recommendation

Wipe off the dirt with wet cloth.



Kontakta Decon om du har frågor kring eller stöter på problem med den här produkten.

Decon Wheel AB

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