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User Manual

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1.Instruction

Read and follow all instructions, warnings, and notes in this manual before attempting to operate your power wheelchair for the first time. If there is any information in this manual which you do not understand, or if you require additional assistance for assembly or operation, please contact with your authorized local provider. These symbols below in this manual are used to identify warnings and important information. All of them are very important to your safety. It is strongly recommended that you should read and understand them completely.



WARNING! Failure to heed the warnings in the manual may result in personal injury.



ATTENTION! Failure to heed the cautions in the manual may result in damage to the power wheelchair.

1.1 This product integrates advanced technology and modern style. Being able to assemble and disassemble quickly, it is very convenient for storage in a car boot whilst travelling. The design features, performance and easy operation of this product will make your daily life far more convenient.

1.2 This powered wheelchair is intended for use by disabled customers. The maximum carrying capacity is 140kg.

1.3 This power wheelchair is an indoor model, intended for use indoors or on flat manmade surfaces near buildings. It is not suitable for offroad use, or use on surfaces with loose material, e.g. gravel. Usage in rainy or snowy weather should be avoided as much as possible.

2. Precautions for Safe Use



Warning! To ensure your safety, please read and understand this manual. You must be on high alert when driving any vehicle to ensure safety.



Warning! Please read the following warning carefully to avoid damage or personal injury caused by improper operation. Wheelchair users should take appropriate safety measures and obey local pedestrian traffic rules. The company are not responsible for personal injury and/or product damage caused by improper operation. When you sit in the wheelchair, it may be difficult for others to see you. Use of safety equipment such as reflectors, reflective clothing, lights and safety signs is critical to your safety.



Warning! Please consult your health care professional regularly to ensure that there are no health or physical conditions that limit or compromise your safe operation of the wheelchair. If you are taking prescription or over-the-counter medications, or if physical activity is limited, please consult your physician. Some medications and medical conditions may impair your ability to operate the wheelchair.



Warning! Do not operate your wheelchair while drunk. Drinking may affect your safe operation of the wheelchair.
Warning! All wheelchairs are not the same. Please take time to learn before driving.
Warning! Be able to operate a wheelchair safely needs time and practice.



Warning! Please do not use the wheelchair for other purposes, applications such as weight training, sports and athletics, traction, moving or dragging may cause safety hazards and excessive stress in wheelchairs.
Warning! This wheelchair is for one person only, the maximum load weight as 135kg with no passengers allowed. Do not carry anything to avoid overloading and possible rollover.



Warning! We strongly recommend that you do not smoke in the wheelchair. If you decide to smoke in the wheelchair, please abide by the following safety rules: keep ash at a safe distance from the wheelchair seat. Make sure your cigarette is extinguished completely when you throw it away.



Warning! Before getting on/off the wheelchair, you should sit back as far as possible to avoid injury caused by overturning.
Warning! The arm rests are not transfer bars, do not use them transfer out of the chair as this may cause damage to the product or injury to yourself.
Warning! Avoid concentrating your weight on the footrest. Otherwise, it will cause overturning and personal injury.



Warning! Do not try to move this wheelchair by yourself with the power off when seated in it. Injury may result.
Warning! Do not make any alterations to the wheelchair without permission. Adding accessories may change some of the wheelchair specifications such as total weight, size, or center of gravity. Please note that some changes may damage things around you.
Warning! Please do not change your seat specification. Do not place any cushions or pillows on the seat, which could result in the user falling out from the wheelchair caused by instability of seat.



Warning! Be extremely careful when using oxygen near electrical circuits or combustible materials. Please contact your oxygen supplier for information on the safe use of oxygen.



Attention! Do not change the controller Settings.



Warning! During the operation, the wheelchair may suddenly stop at any time. Do not operate the wheelchair if it is abnormal or irregular.



Warning! To prevent the wheelchair from losing control and moving on its own, do not place the wheelchair in manual mode on any inclined plane.



Warning! If you expect to sit in a fixed position for a long time, turn off the power to prevent accidental movement of the wheelchair.



Warning! Avoid any accessories that may interfere with the operation of the joystick. Otherwise, it will cause the wheelchair to move unexpectedly.



Warning! Keep yourself, clothing and other objects away from the wheel while the wheelchair is moving. Do not drag anything behind the wheelchair while driving. Loose clothing and other items can get sucked into tires and/or turning gears.



Attention! Do not connect any other devices to the electronic system or turn on any other devices with the wheelchair battery.
Attention! When disconnecting wiring harness, please hold the terminal in case damage to it. Do not pull the wiring harness directly.



Warning! Keep all charger connector terminals clean and dry, away from damp sources to prevent damage to electrical system and/or personal injury.



Attention! The storage temperature of wheelchair is -15°C~40°C. Long-term storage in low or high temperature environment will damage its function.



Attention! Always check electrical components for corrosion. Check all brakes for looseness, wear or damage. Check wiring harnesses and terminal posts for breakage. If necessary, please contact your service provider.



Attention! Please ensure the safety of wheelchairs and batteries during transportation. Never transport wheelchairs or batteries with combustible materials.



Attention! Please only use service technicians authorised by the company should any technical investigation of battery function be required.



Attention! Do not connect the cable directly to the battery terminal/clip for charging.
Attention! Do not remove the fuse from the battery harness. If the fuse is damaged, please contact your supplier for replacement.



Warning! Do not operate the wheelchair with dead battery. You might get trapped.
WARNING! Please slow down when turning, do not make sharp turns. Keep the center of gravity stable when turning. To prevent rollover, do not move the center of gravity in the opposite direction when turning.



WARNING! Drive straight up the slope when climbing; both front wheels should land at the same time. To reduce the possibility of overturning, do not make an angle with the slope; do not make the wheel on one side or the side of the wheelchair to go up the slope first. Be particularly careful when climbing any slopes.



WARNING! Do not drive on potentially dangerous roads or slopes, including but not limited to roads covered with snow, ice, cut grass, or wet leaves.



WARNING! Keep the wheelchair moving when climbing. If you need to stop, restart slowly and speed up carefully.



WARNING! Please drive down a slope at the minimum speed. If the descent speed is faster than expected, release the joystick lever to stop the wheelchair, and then press the lever lightly to control the descent speed.



WARNING! The recommended maximum climbing angle (see parameter table) was tested in a controlled environment. Your wheelchair's ability to climb is affected by factors such as your weight, the speed of your wheelchair, and the angle at which you approach the slope.



WARNING! Reversing is only possible on flat roads. When reversing, please operate smoothly at low speed. Please stop frequently and check to make sure there are no obstacles on the road. To prevent rollover, do not tilt down or backward along the slope.



WARNING! When sitting in a wheelchair, avoid any position or movement that can change your center of gravity. This may cause the wheelchair to tilt.



WARNING! Do not put all the weight on one side of the wheelchair deck, such use may cause the wheelchair to tilt.

WARNING! Do not put your hands above the seat or tilt your body. This may damage the backrest and cause you to fall down.



WARNING! It is recommended you do not try to cross obstacles exceeding 25mm in height. Doing so risks instability of the wheelchair, possible tipping, and personal injury.

If you have any concerns about safely crossing obstacles, please ask for help. Please pay ATTENTION to your operating skills and personal restrictions. You may need to remove or cover the sills and install ramps at exits and entrances.



WARNING! Do not attempt to climb over obstacles on slopes.
WARNING! Do not rely on a wheel to get over obstacles.



WARNING! Never operate the wheelchair near railroad tracks or crossings.



WARNING! Do not drive the wheelchair along the edge of a stream, lake or sea. Please do not drive the wheelchair across the water.



WARNING! Do not expose wheelchair to open flames.



ATTENTION! Keep your wheelchair in a dry and clean environment. Avoid exposure to humid conditions or precipitation as much as possible. Such conditions can cause premature rusting of wheelchair parts.



ATTENTION! Avoid prolonged exposure to excessively hot and cold environments; it may damage the cushioned and non-cushioned parts of the wheelchair as well as the battery and battery components.



ATTENTION! Do not tow the wheelchair. Towing may exceed the chair's speed threshold and cause damage.



ATTENTION! Be extremely careful when moving an idle wheelchair up and down the stairs. The wheelchair must be folded, requiring the participation of several physically capable people.



WARNING! Do not try to ride the wheelchair up stairs or escalators.



WARNING! Do not sit in this wheelchair whilst it is riding in another vehicle.



WARNING! For safer handling: Always keep the power off before moving. Failure to do so may result in touching the joystick and causing the wheelchair to move unexpectedly. Make sure the brakes are locked so to prevent the wheelchair from moving during handling. This wheelchair can be driven into an elevator. When riding in an elevator, it is advised that the power be turned off, to prevent movement within the elevator.



WARNING! Do not place the wheelchair on the front seat of the vehicle during transportation, it may move and disturb the driver.



ATTENTION! Please contact your service provider if any spare parts on the seating system are loose. Replace worn or damaged padding immediately.



WARNING! Radio wave sources, such as radio stations, television stations, amateur radio transmissions, two-way radios and mobile phones can affect wheelchair control.

The following WARNINGS should reduce the possibility of severe injury due to accidental braking or movement of the power wheelchair:

1. Do not turn on portable personal communication devices, such as citizen band (CB) radios and mobile phones when the power wheelchair is powered on;
2. Pay attention to nearby transmitters, such as radio or television stations, and try to avoid approaching them.
3. In the event of unexpected movement or brake release, the power wheelchair should be turned off as soon as possible under safe conditions;
4. Please note that adding accessories or parts, or modifying power wheelchairs may make it more susceptible to interference from radio wave sources (note: there is no easy way to assess the influences of above modifications on the wheelchair's overall immunity from radio wave sources); and report to the power wheelchair manufacturer of all accidents of unexpected movement or brake release, and pay attention to nearby radio sources and other important information.

3.STRUCTURE AND PERFORMANCE

3.1Structure of the Power Wheelchair

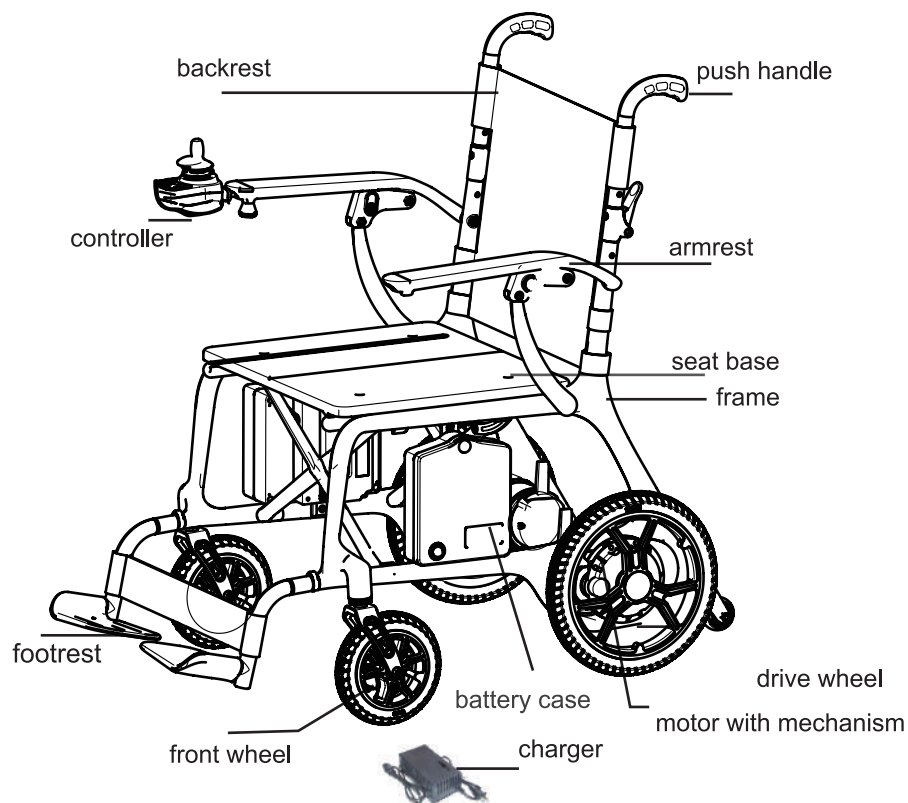


fig. 1

3.2 Poweredwheelchair safety classifications and otherinformation

Electric shock prevention classification:wheelchair uses internalpower supply.
Electric shock prevention degree classification:Powered wheelchair-type B application.

Classified according to the degree of protection for inlet fluid-I PXO

Classification for the safety level off lammable anaesthetic gasmixed with air or oxygen or nitrous oxide: non AP or APG equipment.

Operation mode classification: continuous operation

Ratedvoltage and frequency of wheelchair: DC24V

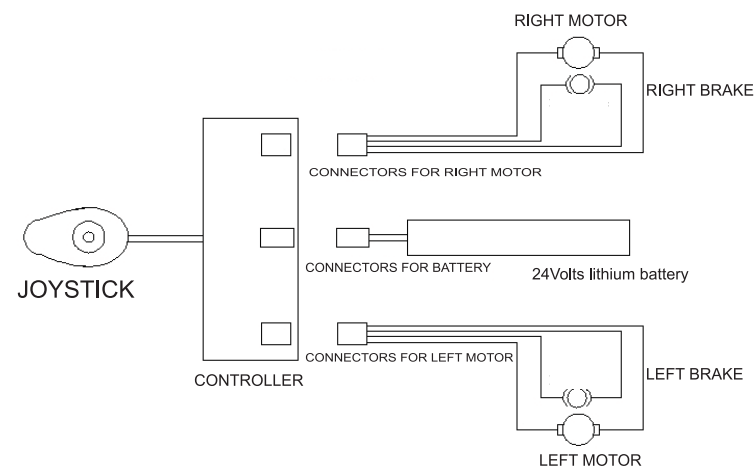
Power mechanism for wheelchair: Internal power supply equipment

Wheelchair protection against defibrillation discharge effect: None

Wheelchair has signaloutput and input parts: None.

Permanentor non-permanent equipment installation type: Mobile equipment

3.3Electric Diagram



3.4Product Software Version

Software version of Power Wheelchair N5909 is V1.0.

4.Specification

The main specification includes dimension and weight.

Overall Dimensions	900*580*860mm
Seat Height	460mm
Seat Width	420mm
Seat Depth	400mm
Arm Height	250mm
Seatback Height	400mm
Wheelchair Weight	12.5kg
Maximum Speed	6.8km/h
Braking Distance(on a level surface)	≤1000mm
Minimum Turning Radius	≤900mm
Weight Capacity	140kg
Theoretical Travel Ranging	≥10km
Static Stability	≥6°
Dynamic Stability	≥3°
Slope Performance	6°
Climing Ability	≥3°
Motor Type	250W*2pcs Brushless
Lithium Battery Type	24V/6Ah / 7.5Ah / 10Ah
Max. Output Current of Controller	30A
Max. Output Current of Charger	2A
Front Wheel	Inflate-free Tyre, O.D. 165mm
Rear Wheel	Inflate-free Tyre,O.D. 270mm

①The weight capacity is tested with a dummy or personnel of same weight.

②Theoretical Travel Ranging is tested on flat road with average speed.
It will vary due to drive surface, operation habit,etc.

5.Unboxing.Folding and Debugging

5.1Unboxing

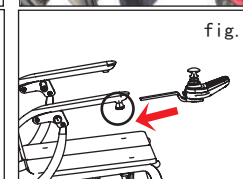
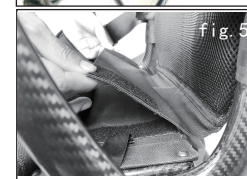
5.1.1 Take out the wheelchair from the packing box and put it on the ground. Push on the sides of the seat base to open up the chair, until the tubes on each side lock into the grooves on both sides of the chair-frame.(Fig.2)

5.1.2 Using the handles, raise and lock the folding device.(Fig.3)
Then tie the backrest cloth cover to the frame, using the Velcro to assist(Fig.4) Then stick the bottom of the backrest cloth cover to the seat cushion firmly.(Fig.5)

5.1.3 Unfold the footrests.(Fig.6)

5.1.4 Insert the controller into the underside of the armrest. Then use the tightening knob on the armrest to secure the controller.(Fig .7)

5.1.5 Before powering on the wheelchair, the battery must be fixed securely onto the frame, with the assistance of the rail. It needs to be pushed into place until a "click" sound is heard.(Fig.8)



5.2 Folding

Please follow the below instructions if transporting or storing the power wheelchair:

- ① Put the wheelchair on flat ground and turn off the power supply
- ② Turn the footrest upward by 90°. (Fig.9)
- ③ The frame can be folded by pulling up the seat lever from both sides as well as pulling up the two handle straps under the seat cushion.

5.3 Debugging

5.3.1 When the brake lever is in electric mode, then the wheelchair can't be pushed: when the brake lever is in manual mode (freewheel) then the wheelchair can be pushed to move. (Fig.11)

5.3.2 Press the power switch on joystick, and the battery indicator light will come on.

5.3.3 Rotate the joystick If there are any issues with movement of the chair wheels, double-check the rotation of the wheels when the joystick is being used and the powerchair is in electric mode.

5.3.4 On releasing the joystick lever, it should come back to the central, neutral position. You should now be able to observe that the wheels are stopped.

5.3.5 The armrest can be flip up, better for being on/off the chair. (Fig.12)

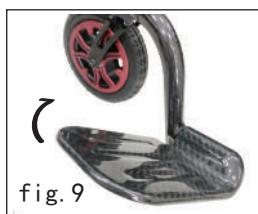


fig. 9



fig. 10



fig. 11

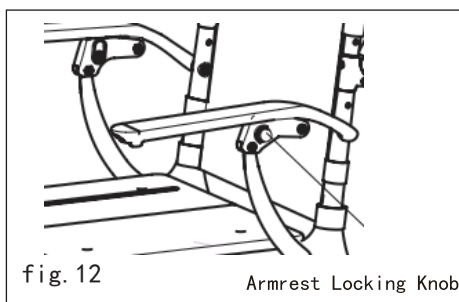


fig. 12

Armrest Locking Knob

6. Use and Operation

6.1 Use

6.1.1 Controller: It is the key component of a wheelchair. All electronics to operate the latter are housed in it (figure 10).

On this chair, the controller is installed in one armrest, and is connected to the motor and the battery with wiring.

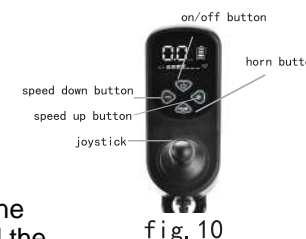
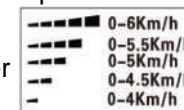


fig. 10

Power switch: Use to turn the chair's electrical functions on and off.

Do not use the power button as your main means of stopping, unless required, as doing so may damage the drive components.

Joystick: The joystick is mainly used to control the movement, including speed and direction. The further that the joystick is pushed from its central position, the faster the wheelchair moves. On releasing the joystick, it should return to its central position and the wheelchair will automatically brake.



Reserving sound can be closed by pressing the buttons of speed-down and horn simultaneously for 3 seconds (Pict.10). If need to turn it on, please press the buttons of speed-up and horn for 3 seconds at the same time, and then the sound will be on.

WARNING!
If your wheelchair moves accidentally, please immediately release the joystick and the chair will stop automatically. (Figure 5)

Charger cable: This is only to be used to supply power to this wheelchair. Using it with other products may result in damage to this chair.

CAUTION!
If you connect any devices other than the supplied battery charger into the socket, causing damage to the control system, then the warranty is invalid.

6.1.2 Battery Use

Fully charge your new battery prior to its initial use. This brings the battery up to about 90% of its peak performance level. After each use, charge the battery for 4-6 hours, and then use the wheelchair again. The battery can now reach more than 90% of its total potential. After four or five charging cycles the battery will top off at 100% charge and extend its lifespan. When the battery fails, please be sure to purchase a new battery and replace the old battery as required to prevent environmental pollution.

CAUTION!
Do not use your wheelchair when the temperature is less than -25 °C or above 50 °C. (Figure 6)

Battery specification	
Type	Lithium battery
Dimension	162mm*145mm*44 mm
Power	24V

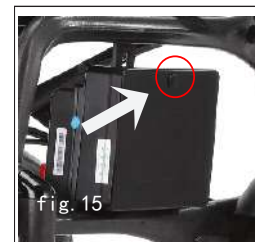
6.1.3 Charging batteries

The battery charger is an important part of the wheelchair. The off-board charger attached to this product can charge its batteries quickly and easily to make your wheelchair the best.

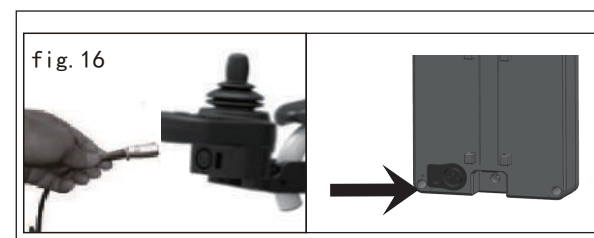
CAUTION!
The charge of 24V/2A supplied by our company meets the requirements mentioned in Section I «General Safety Requirements» of medical electrical equipment GB9706.1-2007. The battery must be charged by the charger supplied by us. Any other types of chargers are forbidden.

6.1.4 Battery Removal

Press and hold the button with your hand, and at the same time pull the battery box up to remove it. (Fig.15)



6.1.5 Charge the battery with charger. Method 1: Connect charger to charging port on controller. Method 2: remove the battery from wheelchair and directly charge it. (Fig.16)



WARNING!
Please charge the battery at environment temperature 0-35 °C. Otherwise, it will cause personal injury and battery damage.

6.1.6 Safety Belt

For your safety, the safety belt must be fastened before you drive the wheelchair.



6.2 Operation

6.2.1 Preparation before operation

Before powering on, first check that the powerchair is not in freewheel mode.

Do not use the footplate to get on or off the wheelchair. In the interests of balance, use the armrests to help you get on and off securely.

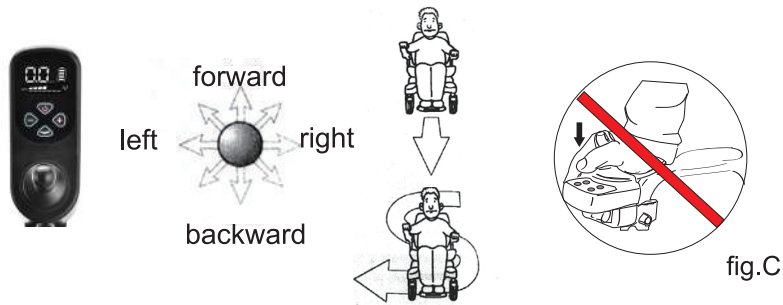
6.2.2 Practicing before first use

Find a spacious location such as a square. It is advisable to be accompanied when practicing before first use.

Make sure to turn off the power when you mount and dismount the wheelchair and use the speed adjustment buttons to keep your speed at the desired amount.

It is advisable to use the lowest speed until you can operate the powerchair confidently.

Ensure that you become confident in manoeuvring the chair.



Warning!

Do not press the joystick hard by hand when getting on/off the wheelchair to avoid any accident (Fig.C) .

6.2.3 Operation

Please do it according to precautions operation.



WARNING!

Do not use your wheelchair unless getting help from your assistant when the wheelchair is in manual mode. Otherwise it may result in personal injury.

Do not set your wheelchair in manual mode by yourself while you are seated in the wheelchair. Otherwise it may result in personal injury. In this case, please ask your assistant to help you.

Do not set your wheelchair in manual mode when it is on an incline. Otherwise, the wheelchair could be out of control to roll down by itself, and result in personal injury.

7. Fault diagnosis and troubleshooting

This product has an automatic fault warning function to give you very convenience. Once it malfunctions, the LEDs on the controller will flash with alarm sounded by the horn. You can find where a fault is according to information in Table 2.

If the fault still exists after checking out the fault based on that in table 2, Please consult your service agent immediately.

Beep 2+1	Communication failure	Check connection inside the joystick
Beep 2+2	Right motor failure	Check right motor or wire connection
Beep 2+3	Right brake error or cable connection poor	Check if the brake lever is in place & if the brake is damaged
Beep 2+4	Left motor failure	Check left motor or wire connection
Beep 2+5	Left brake error or cable connection poor	Check if the brake lever is in place & if the brake is damaged
Beep 2+6	Overcurrent	Check if the motor is locked or short circuit or if the joystick is damaged
Beep 2+7	Joystick lever failure	Check if the joystick lever works normally or the inside connection is loose
Beep 2+8	Joystick failure	Check with supplier for repair
Beep 2+9	Battery failure	Charge the battery, if still not work, replace a new battery with same specification

8. Safety devices and accident treatment

8.1 Overload Protector: Refer to instruction manual 6.1.4

8.2 Safety belt: Refer to instruction manual 6.1.6

8.3 Please release the joystick whenever there is a wheelchair fault, the wheelchair will be stopped.

9.1 Maintenance

9.1.1 Recommended maintenance measures:

Turn off the power when not in use (detach all connectors if chair is not to be used for an extended period).

Store the chair at normal temperatures.

Clean the chair with a clean and soft cloth. Do not use chemicals on the chair.

If the cushion needs to be washed, remove it to wash separately and ensure it is fully dried before putting it back on the chair.

9.1.2 General care guidelines

Be gentle with the controller especially the joystick.

Avoid prolonged exposure of your wheelchair to extreme conditions, such as hot, cold or moisture environment.

Keep the controller clean.

Check all electric connections, including the cable and connectors of the charger, and ensure that they are all tight and secure.

If only red LEDs are lit on the Battery Gauge lights, the batteries are nearly running out of charge. You should recharge the batteries as soon as possible.

Check all cable connections. Make sure they are securely fastened and are not corroded. The battery must be placed in the correct area and firmly in place.

All wheel bearings are lubricated and sealed. There is no need to lubricate them yourself.

Check if there is looseness in the wheel hub, drive device, and chair itself. If so, please screw parts together tightly where required.

The battery can be charged offboard.

9.1.3 Daily Checks

To keep the wheelchair in good condition, you should check it before each use. See Table 3 for information on how frequently to carry out various checks.

9.1.4 Cleaning

The cleaning method is shown in the figure below:

Never wash your wheelchair with water or expose directly to water.

The surface of the wheelchair frame is coated with a protective coating. Therefore, it is very easy to wipe it clean with a damp cloth.

Never use any chemicals to clean the vinylene seat and armrest, as they may cause the latter to become slippery or chapped. You can use a damp cloth and neutral soapy water to clean them. Then dry thoroughly.

9.1.5 Checks

In order to keep the wheelchair in good condition, you should check before each use. To maintain the product, please refer to the below timetable.

Inspection Items	At any time	Weekly	Monthly	Six monthly
All parts			○	
Joystick function	○			
Brake System	○			
Connection		○		
Battery Condition	○			
Tire Condition			○	
Frame Condition				○
Front Wheel Condition		○		
Pureness	○			

9.2 Repairs

9.2.1 Users can repair or replace some spare parts like push handle, the push handle cover which could be self-maintained or replaced by users under the instructions of after-sales service staff of the manufacturer or the dealers.

9.2.2 Within the warranty period, the manufacturers or the dealer will maintain or replace faulty spare parts, like the motor, battery, charger, controller, bearing, shaft sleeve, etc., due to material or manufacturing defects free of parts and labour charges.

9.2.3 Please contact your distributor or the manufacturer's personnel for any questions regarding the maintenance of power wheelchairs. For warranty matters, please refer to product warranty.

10. Transportation and storage

10.1 Transportation

You can load and transport according to the shipping marks and graphics. For details, see the attachment.

10.2 Storage

Your wheelchair should be stored in a dry condition free from sources of extreme temperature and dampness. Remove the batteries from the wheelchair prior to storage. Otherwise, the frame may rust and the electronics may be damaged.

11. Checking the powerchair on delivery

The contents list is enclosed in the box with the chair. Please check as to whether any of the listed components are damaged or missing.

No.	Name	Quantity	Remark
1	Power Wheelchair	1pc	BC-EC8003
2	Charger	1pc	QL-09005B2402000F
3	Instruction Manual	1pc	
4	footrest	2pc	
5	Controller	1set	

12.Warranty

Product warranty details

12.1.1 There is a 5-year parts and labour warranty on the chair frame, in the event of manufacturing or mechanical faults.

12.1.2 Parts and labour are covered for 12 months under warranty, in the event of manufacturing or mechanical faults, for the following components:

Electrical control or lever system

Motor/drive system

Bearing and shaft sleeve

12.1.3 There is a 12-month parts and labour warranty on the batteries also

12.1.4 Not covered by warranty:

Plastic casing and rubber padding

Tyres








Cosmetic components

Damage caused by abuse, improper operation, or negligence

Accidental damage

Any damage sustained during business or other commercial usage

The name and symbols of the signs

No.	Sign	meaning
1		fragile objects inside the packaging, please handle with care
2		keep the packaging up during transportation
3		Keep the packaging away from any rain.
4		Do not stack more than one box on top of another.
5		Do not use hand hooks to carry or transport the package.
6		Application type B
7	IPX1	Vertically falling water droplets will not damage this appliance
8		Attentions