



Folding Powerchair

User Manual

CE

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Guidance for Use

The powerchair is suitable for mainly indoor use. It is designed to transport a single person, in a light weight, collapsible, easy to carry powerchair.



Users:

Please do not use and operate the powerchair until you have fully read and understood this instruction manual.

If you have difficulty in understanding the WARNING, CAUTION and instructions, please contact your distributor or qualified technician to obtain professional technical guidance and help; otherwise danger or injury may occur as a result of incorrect operation.

Distributor and professional Personnel:

Do not use before you have read and understood this Instruction Manual.

If you have difficulty in understanding the WARNING, CAUTION and instructions, please contact the manufacturer to obtain professional technical guidance and help; otherwise danger or injury may occur.

To Users

Dear Users,

Thank you for using our powerchair. Incorporating innovative design and precision manufacturing, the powerchair delivers excellent safety, comfort and portability to you.

Before operating your powerchair for the first time, please read this manual carefully. This instruction manual will help you to understand how to set up, operate and maintain this wheelchair properly.

If you have any trouble understanding the instructions of this manual, or require further assistance on setting up, operating and the maintenance your wheelchair, please contact your distributor or the manufacturer for more complete, specific and professional guidance and help.

Safety Sign

The following signs will help you identify and understand powerchair's important operation. These signs are extremely important, please go through them carefully.



Please read and observe the guidance provided in this manual.



A safety warning sign, or an indication of a dangerous operation that may endanger your safety or others' safety.



Secondary (auxiliary) device



The main application part



In the course of operation do not use mobile, walkie talkie, notebook or other radio transmitters.



Risk of squeeze or pinch points



Store in clean & dry place protected from rain, snow, ice, salt and water.



Test of immunity to electromagnetism / RF of 30V/M passed.



Corrosive substance contained in the battery.



Danger of explosion



Do not use batteries of different models & capacities, do not use old and new batteries together (replace the battery completely).



When using tools and other metal objects, keep away from the negative and positive poles of the battery; short circuit or electric shock may occur if the two poles are contacted.



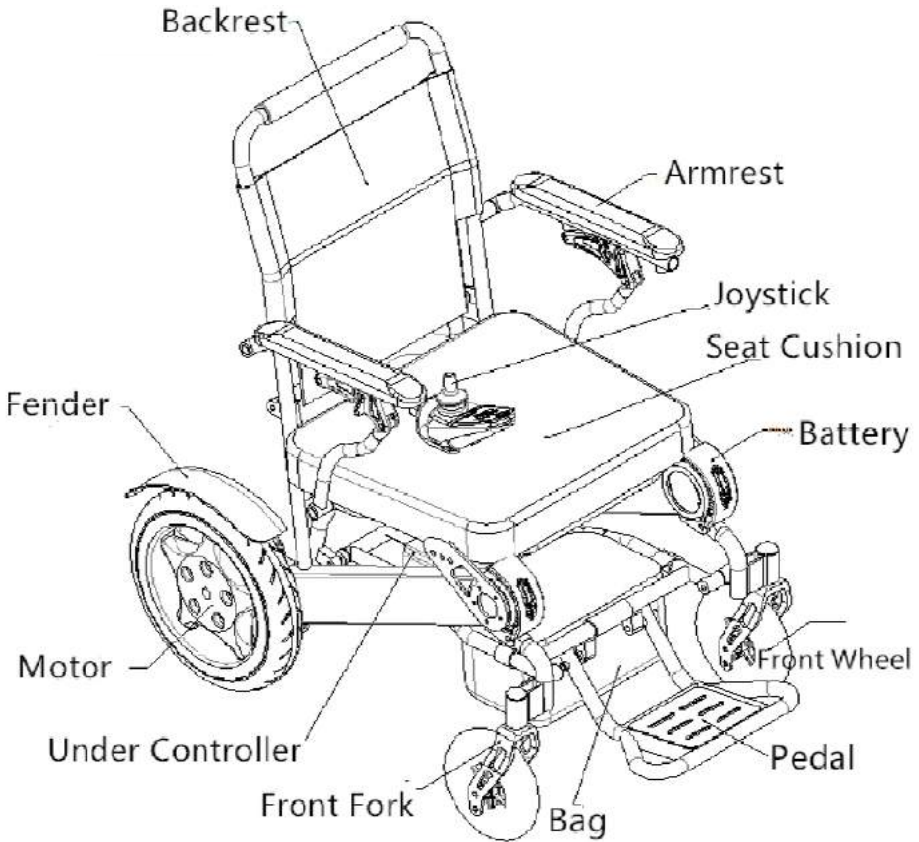
Inflammable materials, do not expose to heat source such as naked flame or spark; do not transport the battery along with inflammable or explosive material.



Disposal and recycling--

Only authorized recycling companies can recycle parts of this wheelchair.

Product Construction



Technical Parameters

Model	PCF18SIL
Folded Size	22.8" x 12.8" x 30.7" (58cm x 32.5cm x 78cm)
Unfold Size	37.8" x 22.8" x 36.6" (96cm x 58cm x 93cm)
Max weight Capacity	19 stone (120kg)
Motor	
Type	Brushless DC Motor
Capacity	6 Ah
Output Voltage	DC 24V
# of Batteries	2
Charging Time	6 - 8 Hours
Battery	
Type	Lithium Battery
Capacity	37.8" x 22.8" x 36.6" (96cm x 58cm x 93cm)
Output Voltage	DC 24V
PCS	Two
Charging Time	6-8 Hours
Controller	
Input Power	AC 100-220 V, 50-60Hz
Output Voltage/Current	DC 24V /2A
Front Wheel	
Outer Diameter/Tyre Width	7" x 1.77" (18cm x 4.5cm)
Type	Solid
Material	PU
Rear Wheel	
Outer Diameter/Tyre Width	12.5" x 2.25" (31cm x 6cm)
Type	Solid
Material	PU
Weight	
Base Weight	51.8 lbs. (23.6kg)
Battery Weight	6.6 lbs. (3.3 lbs. each) (3kg / 1.5kg each)
Maximum Grade ability	6°
Max Range	13 miles (21km)
Max Speed	3.75 mph (6kph)
Turning Radius	32.9" (84cm)
Highest Obstacle Capability	1" (4cm)
Turning Radius	32.9" (84cm)
Ground Clearance	2.75" (7cm)


Electromagnetic Interference



Under specific conditions, electromagnetic interference can cause interference. Therefore, it is important for powerchair users to adequately understand relevant instructions, which can help users reduce the risk from Electromagnetic Interference.

Electric wheelchairs are subject to electromagnetic interference. The interference sources are electromagnetic waves emitted by broadcasting stations, TV stations, radio transmitters, two way radio devices, mobile phones and PCs; Interference of these electromagnetic waves may result in failure of the control system or the brake system of the electric wheelchair.




-  1. Though the powerchair has passed 30 V / M electromagnetic interference test at factory and has a certain degree of immunity to some common electromagnetic interference, users shall still observe the following rule: when the electric wheelchair is powered on in operation, do not turn on or operate portable transceiver, receiver, radio or other communication devices.
2. Keep away from radio wave emission sources, such as radio station and TV station.
3. Where the powerchair moves or stops out of control, cut off the power immediately.
4. No modification of any form to the powerchair by users is allowed, including adding or removing any parts.

Guide for Safe Use

User



1.  When using tools and other metal objects, keep away from the negative and positive poles of the battery; short circuit or electric shock may occur if the two poles are accidentally contacted.
2. Before using the powerchair read and adequately understand this Manual.
3. Assistance is required when practicing moving forward, turning, crossing over obstacle and braking etc., until the user can independently and proficiently perform these operations.
4. Where safety cannot be ensured, do not try any new operations.
5. Check the environment in which the powerchair is to be operated for any potential danger and take measures to avoid the dangers.

Attendant



1. Cooperate with the user and take advice from the doctor, nurse or therapist to determine safe ways of operation adaptable to the user's ability.
2. To move the powerchair manually, the electromagnetic brake must be the powerchair. The electromagnetic brake will not work when in freewheel mode.
3. When pushing this wheelchair, you must use the push handle in the back. This will prevent the wheelchair from overturning backwards when pushing.
4. Check the push handle, make sure the push handle does not rotate or slide while pushing the user.

Precautions for control panel use



1. The locking devices of the control panel need to be frequently checked and adjusted (A1). Failure to do so could cause damage and/or injury.
2. Where any button on the control panel fails or is not sensitive enough, user must stop using the wheelchair immediately and contact your dealer for repair.



A1

Notes when using joystick

1. Check and adjust the Settings every six months. (If necessary, check and adjust often).
2. If you find any change of function or settings of the controller joystick (A2) , please contact your dealer.



A2

Precautions when stationary



When you stop using your wheelchair, even for a short duration, make sure you turn off its power. This can prevent:

- The control panel from being touched accidentally by yourself or others, which may cause the wheelchair to move.
- Unintended movement from electromagnetic interference.



B1

Operating environment



This electric wheelchair shall not be used or stored in environments which have rain, snow or freezing conditions.

Malfunction may occur if the device is in contact with water or in damp environments. In addition, since the frame, motor and other parts of the wheelchair are not fully waterproof, environment of moisture may result in rusting or corrosion inside the powerchair.

To prevent malfunction, the following shall be observed:

- Avoid using or storing the powerchair in an environment subject to direct water impact (e.g., rain) or high moisture.
- Do not use the powerchair when you are taking a shower, sauna or swimming.
- Avoid using the powerchair near water sources (e.g., river, lake or ocean).
- If the control panel has been damaged, replace it before use.
- If the joystick is broken, replace it as soon as you can.
- Make sure all the electric connections are secured.
- Never hose down this electric wheelchair. If electric wheelchair gets wet, take out the batteries as soon as possible, dry the wheelchair and batteries completely before attempting to use them again.

Adopt the following if you have to operate the powerchair in wet conditions.

- You must make sure that you are operating in a safe environment.
- If one or two drive wheels lose traction, stop operating immediately to prevent loss of control.
- Move slowly.
- Never operate on slopes or ramps with snow, ice, water or oil on top.
- Seek help immediately if you are stuck in a wet environment.

When the wheelchair is not in use, turn off its power, charge the battery fully and keep it in a clean and dry place.

Travelling on Surfaces



- 1.The powerchair is only suitable for concrete, asphalt and indoor floor surfaces.
- 2.Do not use the powerchair in sandy or coarse dirt, or rugged terrain. Doing so may cause damage to wheels, bearings, shaft or motor parts.

Road driving



In most countries and regions, operating electric wheelchair on public roads is illegal.

Operating the powerchair on the road or in a car park is dangerous.

- 1.For visibility, reflective tapes are placed on the electric wheelchair (C1). The user can also wear reflective clothing.



C1

Balance of driving



When driving the powerchair, try to maintain your centre of gravity and stability to avoid tipping over in the course of moving forward or backward.

The centre of gravity is generally subject to the following factors:

1. The height and angle of the seat.
2. Changing user's body position and posture.
3. The ramp or slope gradient.
4. Changing weight distribution of the wheelchair by adding or removing accessories.
5. If you need to modify or adjust the electric wheelchair, please consult your supplier in advance, and the manufacturer must authorize its modification. The modified wheelchair may need to be adjusted prior to use. After modifying the wheelchair, be cautious while operating until you are familiar with the wheelchair's new centre of gravity.

 **Caution: Do not modify or adjust the powerchair configuration or construction yourself.**

Attentions when getting on/off the wheelchair



Getting on and off the electric wheelchair affects the balance of both you and the wheelchair. With improper techniques, falling or tipping over can occur, resulting in injuries and/or damage to the wheelchair.

Avoid falling:

When you are ready to sit in the electric wheelchair, you must turn off the power supply. Otherwise, if you touch the joystick, it may lead to unexpected movement of the wheelchair.

Ensure the motor is drive, and the wheelchair does not move on its own.

Learn the safest way of moving your body from your professional health care assistant, position your body correctly while sitting in the wheelchair, and know how to support yourself in the process of getting on and off the wheelchair.

Let others help you until you are sure that you can do it on your own.

1. Move your electric wheelchair as close as possible prior to sitting.
2. Rotate the front wheels forward.
3. Be careful of the footrest. Fold it up as far as possible (as shown in figure D2)



D1



D2

- Never stand on the footrest, this will damage the wheelchair.
4. Fold up the armrests if you need more space getting on and off the wheelchair (D1)
 5. When getting on the wheelchair, sit down as quickly as possible.

Precautions for reaching out hands and tilting body



WARNING

Stretching or tilting your body will affect the centre of gravity and balance of the electric wheelchair. Falling or tipping over can occur, resulting in injuries and/or damage to the wheelchair. The following tips can reduce the risk of falling or tipping over.

1. Never move out of the seat of your wheelchair while stretching or tilting your body, keep your body in contact with the backrest and seat as much as possible.
2. If you are leaning forward, keep your back in contact with the seat as much as possible (as shown in figure E1),
3. Never attempt to reach for an item that is far-away, move your wheelchair as close as possible to the item that you are trying to reach.
4. Never attempt to pick up an item on the floor. (as shown in figure E2)

5. When you are extending your body, do not exert pressure on a single point of the wheelchair, as doing so may cause the wheelchair to tip over.
6. Never lean on the top of the backrest, doing so may cause the wheelchair to tip over.
7. If you do extend or tilt your body, you are doing so at your own risk.

Remember :



1. Move your electric wheelchair as close as possible to the object you want to reach.
2. Rotate the front wheels as forward as possible, this will make the electric wheelchair more stable.
3. Turn off the power supply of the wheelchair when it's not in use.



E1



E2

Through obstacles



You need to overcome some obstacles during your daily uses of your powerchair. These obstacles include thresholds, elevators, ramps, pits and broken pavement, etc.

1. Attention: a threshold is very dangerous. Even a small height change may cause the electric wheelchair to tilt and roll over.
 - You may have to install ramps at entries of doors as well as remove or cover threshold strips between rooms.
2. When operating the electric wheelchair, beware of obstacles and avoid them as much as possible in the area that you are driving on.
3. Operate your wheelchair slowly while going over obstacles.
4. To better maintain your centre of balance while operating through obstacles:
 - When you are going over an obstacle, lean your body slightly forward.
 - When you are moving downward through an obstacle, lean your body slightly backward.

Reverse driving



When you drive the powerchair in reverse, you need to be more careful. If the rear wheel hits an object, you may lose control and tipping over can occur.

1. When driving in reverse, drive as slow and steady as possible.
2. When driving in reverse, keep an eye on what's behind you and make sure the path is clear.

Drive on inclined plane / slope / hillside



When operating on the slope, the centre of balance of you and your electric wheelchair will change.

Attention: “slope” may be a ramp or hillside. Operate only if you are sure it is safe to do so, have someone help you while you are operating on a slope.

Attentions:

1. Never use the wheelchair on a slope that is steeper than 10 degrees.
2. Never use the wheelchair on a slope if there is snow, ice, water or oil on it.
3. Never use the wheelchair on a slope that has uneven surfaces or a change in the slope grade.
4. Be aware of a slope that has a drop off at the bottom, this may cause the wheelchair to tip forward.

Load Capacity



1. The maximum load capacity of the powerchair is 120kg. The total weight of the user and all accessories. Never exceed this limit.
2. The backrest's load capacity is 75kg., do not apply excessive force to the backrest.
3. If the load exceeds the maximum load capacity, it could damage the seat, frame, fasteners, motors etc., and may cause injuries to its user.
4. Damage to the wheelchair caused by exceeding these weight limits voids all warranty.

Attention When Using on the Stairs



This electric wheelchair is not suitable for traveling up and down the stairs, or on escalators. Pay attention to the following cautions when using a lift.

- Do not use the wheelchair on any stairs or escalators.
 - A lift can be used when you are sitting on the wheelchair. Make sure the lift stops and the doors are completely opened before driving inside.
1. When the elevator is not available, the wheelchair needs to be folded before carrying.
 2. If the user wants to move the electric wheelchair between floors by stairs, the assistant should note the following:
 - The user must get off the electric wheelchair.
 - Fold the electric wheelchair. Before folding, the joystick controller must be taken off.
 - Avoid collisions when moving the electric wheelchair up and down stairs.

Installation Guide

Mounting safety belt



The safety belt is for fixing user's body only and prevent the user from falling off the chair. Where an accident occurs, it cannot provide adequate protection for you. The safety belt can be adjusted per the user's needs.

Installation of the safety belt:

1. Lead the head of the safety belt through the gap between the reinforcement tubes at the left and right backrests under the rear part of the chair.
2. Attach buckle to the belt.
3. Clip the plastic safety buckle into the place where the buckles are attached.



F1



F2



F3

Adjusting the safety belt.

- After sitting down, insert the plastic clip into the plastic receiver, until you hear a clicking sound.
- Adjust the safety belt to its appropriate length, never over tighten the safe belt as this may cause discomfort.

Unlock the safety belt:

- Press the buttons in on either side of the plastic clip, and pull out.



Before each use, make sure the safety belt is fixed onto the electric wheelchair properly, and is adjusted to the user's comfort level.

Before each use, check whether the safety belt is loose or damaged. If there is any issue, contact the supplier immediately to repair.

Mounting control panel

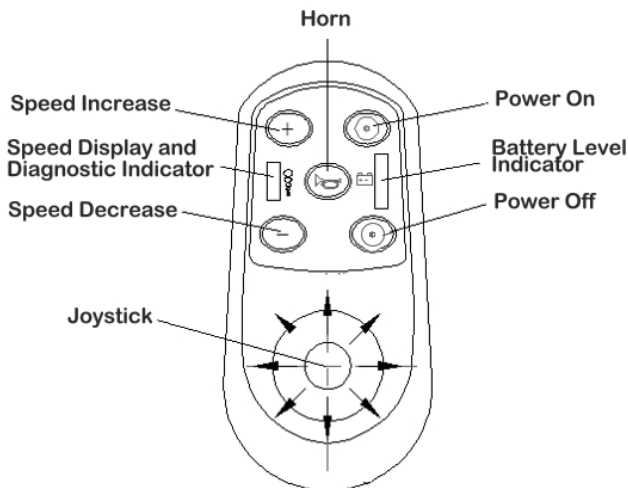
The joystick controller can be installed on either the left or the right arm per its user's needs.

1. As shown in Fig.G1, insert the joystick into the armrest tube opening, make sure it has been inserted correctly, and fixed the joystick by locking the knob on the bottom.
2. As shown in Fig.G2, connect the wires of the control panel into the cord anchorage and fix them.
3. As shown in Fig.G3, align the notch of the socket receiver with the plug, and push in tightly to ensure a good connection.










The control panel controls the the powerchair.
It consists of the following sections:



- 1.**Power on button:** Press this button to power on the wheelchair.
- 2.**Power off button:** Press this button to power off the wheelchair.
- 3.**Battery Level Indicator:** Indicates battery power status.
- 4.**Speed Display and Diagnostic Indicator:** The number of lights lit indicates the top speed of the powerchair. For example, if 5 lights are lit then the powerchair is at top speed. If the lights are flashing then this indicates that a fault has been detected.
- 5.**Speed Increase:** Press this button to speed up.
- 6.**Speed Decrease:** Press this button to slow down.
- 7.**Horn:** Press the horn to sound.
- 8.**Joystick:** The yoystick controls the direction and speeds of the wheelchair, push the lever towards the target direction. The further the joystick is deflected the faster the powerchair will travel.

If the LED flashes intermittently, it's indicating diagnosis information. Refer to the table below for specific indications.

	The lowest LED flashes: low power
	The second LED flashes: the control lever has no signal
	The third LED flashes: charging, under control
	The fourth LED flashes: Motor connection failed
	The fifth LED flashes: electrodynamic braking disconnected

Press power on/off button

1. Press the power on button to power on the wheelchair.
2. Press the power off button to power off the wheelchair.

Use the Joystick to Control the Wheelchair



While operating at high speed, do not attempt sharp turns or stop suddenly. Doing so may cause the wheelchair to tilt or tip over, resulting in injuries to the user and/or damage to the wheelchair.

The joystick is equipped with 360° mobility, it controls the direction of the wheelchair smoothly, and is very easy to operate. While not operating, the spring in the joystick allows it to return to the centre of the initial state, making the wheelchair brake automatically.

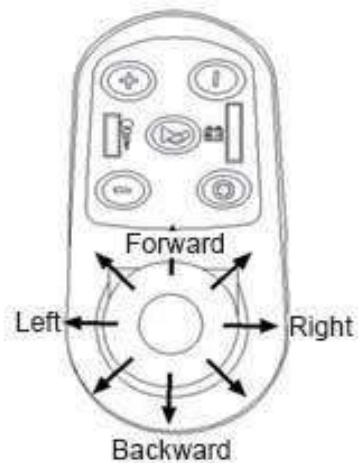
Push the joystick in the direction you wish the wheelchair to move to, Joystick has proportional control ability.

If you wish to stop the wheelchair, release the joystick. The wheelchair will automatically slow down.

When operating this wheelchair for the first time, push the joystick forward slightly, and you should operate at a slow and safe speed. This practice will help you to learn how to control the wheelchair, and speed up gradually as you become more familiar with using the joystick to control the wheelchair.

While operating the electric wheelchair, please note the following:

1. Adjust the settings to suit your environment.
2. Turn on the power supply. Please refer to the previous section on "press the power on/off button".
3. Move the joystick as shown on the table below.
4. Stop: Release the joystick (the wheelchair will slow down quickly) .



Movement	Operate the joystick
Forward	Move the joystick forward
Backward	Move the joystick backward
right	Move the joystick to the right
left	Move the joystick to the left

Use the horn

Press the horn button on the control panel to sound.

Braking



After any adjustment, repair or maintenance, please make sure all parts are installed securely before operating this wheelchair, otherwise it may cause injuries to the user and/or damage to the wheelchair.

Please do not operate the freewheel lever the electromagnetic brakes when the power is on.

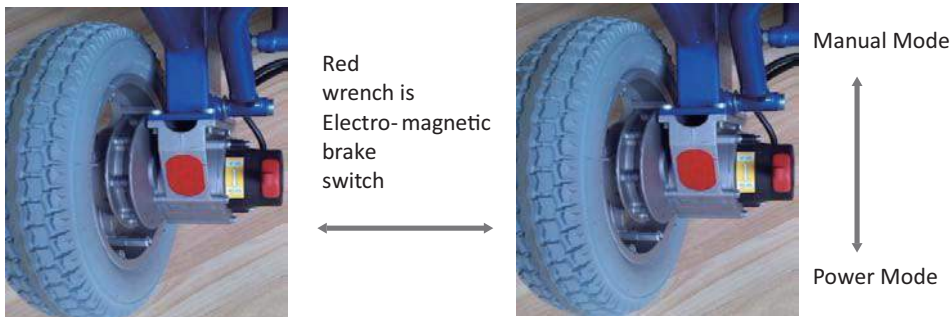
Operating the levers on the electromagnetic brakes to the side of the motors will allow you to switch your power chair between manual/free wheel mode and drive mode.

Operating the electromagnetic brake

Locate the motor electromagnetic brake release lever and perform the following:

Flip the brake lever downwards with the brake release lever will switch the wheelchair to its electric mode as show on the picture to the left.

Flip up the brake with the brake release lever will switch the wheelchair to its manual/free wheel mode as shown on the picture to the right.



Electromagnetic brake states:

This wheelchair has two status: DRIVE and FREEWHEEL, which are achieved by operating the brake lever.

DRIVE state indicates that the electromagnetic brake is engaged. Before powering on the motor wheel will not rotate. This will make sure the wheelchair will not move and can even stop or start on slope.

FREEWHEEL state indicates that the electromagnetic brake is disengaged. The motor wheel can rotate even when the power is off, allowing the wheelchair to be moved manually.

Caution: before using the wheelchair, make sure the electromagnetic brake works normally, and the brake lever is in DRIVE state.

Battery Use



Do not use batteries with different capacity and models at the same time; when replacing the batteries, do not mix up old and new ones.



Keep tools and other metal objects far away from the positive and negative ends of the battery. Exposing metal objects to both ends of the battery may cause a short circuit and generate electric shock.



Do not store the batteries close to flammable materials. Do not expose the batteries to any heat source, such as fire or sparks, etc. Do not transport the battery with any flammable or combustible materials.



There are some corrosive chemicals in the battery box, disassembling the battery is prohibited.



Do not short circuit batteries or get the batteries near an open flame. Dispose the batteries through legal recycling centre.



Caution

1. Do not use pliers, cables or any metal item to connect the ends of battery directly.
2. Do not use the wheelchair when it is charging.
3. Do not use non-standard power supply (for example: generator or inverter), for charging.
4. Do not bend or pull the power wire, especially near plug to prevent the power wire from being damaged.
5. Keep children and pets far away from the power cable, never allow them to bite or chew on it.
6. Hold the plug if you wish to pull out the power wire.
7. If the circuit breaker has tripped multiple times while the batteries are charging, unplug the charger immediately and contact the dealer or professional technical support.
8. In this guide, all the warranty and operations are referring to lithium batteries.
9. Do not smoke or ignite a flame around the battery.
10. The operating temperature of the battery is -5°C to 40°C.

 **Caution**

1. Charging the battery continuously for a long time before the first use can reduce the battery's service life (charge the battery for the first time only when the last red LED on the control panel flashes)
2. When charging new battery for the first time, it must be fully charged (for about 24 hrs) to ensure the battery to be fully activated.
3. Check if the battery has been fully charged before use. Typical charging time is about 5 hrs; if the power has been drained it may take 10-12 hrs to fully charge until the red LED on the charger turns green.
4. Whenever the wheelchair is used, the battery shall be recharged until the power LED on the charger turns green. If the wheelchair is not in use for a long time, charge the battery full every 2 months; If the battery has no power for a long time, the battery can be damaged and inoperable, or it may even cause damage to the wheelchair.
5. Use of batteries which are of incorrect specification, voltage or capacity is strictly prohibited to use. This may damage your wheelchair.

Install/Remove the Battery

 **Caution**

Please make sure you power off the wheelchair before installing or removing the batteries.

Removing the battery:

Press the lock button (As shown in figure H1), then pull the battery handle (As shown in figure H2). Pull the battery from the battery void in the powerchair.



H1



H2



Installing the battery

Hold the battery handle, insert the other side of the battery into the right -side opening of the battery void until the battery is all the way inside.

Charge the Battery

1. Use available standard alternating current (AC 110-220 V, 50-60 Hz) for charging. The charging port is in front of the joystick control panel below.

2. Make sure that you power off the wheelchair before charging.

3. Insert the charging cable of the charger into the charging port in front of the control panel below. (As shown in figure I1) or you can also charge the battery directly (as shown in I2)

3.1 Insert the other side of the charger into the wall socket. If the red indicator light is on, it shows it's charging.

3.2 The indicator light (see photo):

Red: no battery connected

Orange: Charging

Green: Charged (see note below).



I1



I2



5. After the charger indicator's light changes from red to green, keep charging the batteries for 30 minutes to ensure they are full charged. Unplug the external wall plug first, and then unplug the cable from the control panel.

6. Please charge the battery in an appropriate ambient temperature. The recommended ambient temperature for charging is between 5°C to 40°C.

Over Discharge Protection Device

When the battery of the electric wheelchair runs out of power, the discharge protection device will shut the batteries off to protect them against excessive discharge. Users should notice that when the discharge protection device is activated, the maximum speed of the wheelchair will be reduced.

Over-Current Protection Device

The electric wheelchair is also equipped with an over-current protection device. If the current provided to the motor is excessive, the controller will shutdown temporarily.

If there is any malfunctioning when operating the wheelchair, the over-current protection device will be activated, and the powerchair will stop to prevent damage and/or overheating.

Clean the Battery Socket



Caution

Check the battery case to see whether the battery connectors are corroded or not. If the connectors are corroded contact your dealer.

Folding/Unfolding



Caution

After any adjustment, repair or maintenance, please make sure all accessory parts are installed tightly before operating this wheelchair, otherwise it may cause injuries to the user and/or damage to the wheelchair.

Do not attempt to lift the wheelchair while the user is sitting on it. Grip the edge of the seat frame, never hold the handrail or back of chair to lift.

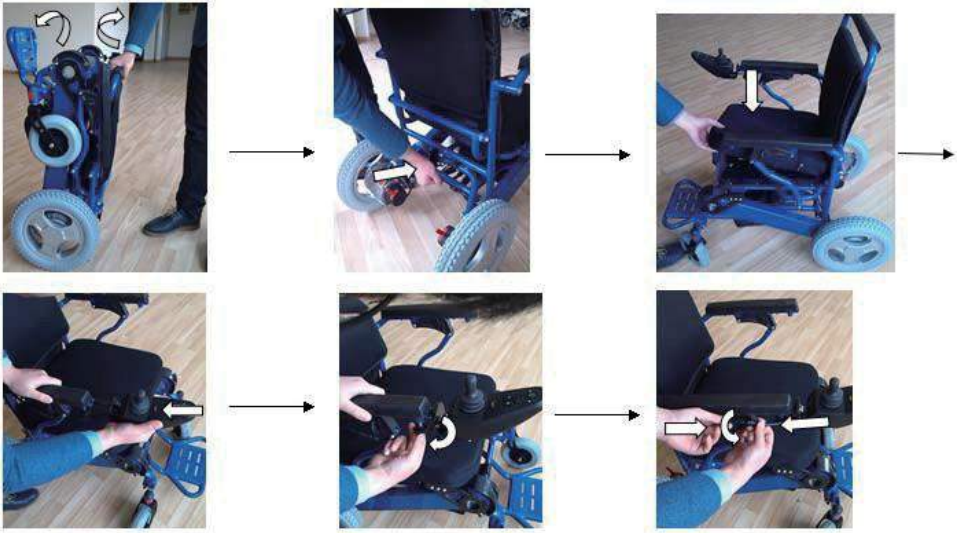
Folding Steps:

1. Make sure the power is turned off.
2. Take off the seat cushion
3. Unlock the latch on the back of the wheelchair
4. Pull up the footrests
5. Grip top of the backrest with one hand, front of the wheelchair with another hand, push towards each other until the wheelchair is in its upright position.
6. The wheelchair is now completely folded.

Folding



Unfolding



Step:

1. Grip top of the backrest with one hand, front of the wheelchair with another hand, pull away from each other.
2. Lock the latch on the back of the wheelchair.
3. Put the seat cushion on the wheelchair
4. Pull down the footrests.
5. Install the controller joystick (Refer to the joystick installation instruction section)
6. The wheelchair is now completely unfolded and ready to operate.

Maintenance

Regular maintenance will both increase the lifespan and improve the performance of your wheelchair.

Cleaning

1. Clean your wheelchair periodically. Wipe off any dust or dirt especially on or around motors and wheels.
2. Do not clean your wheelchair with oil or chemical fluids.
3. Do not rinse the wheelchair with water. Wipe down the surface with a damp cloth, then wipe off any water marks with a dry cloth.
4. Wash the seat cushion only if necessary, it can be hand washed.

Routine Check

1. Check the wheelchair periodically for any loose fasteners or cables.
2. Check the batteries periodically for corrosion

Storage

1. Always store your wheelchair in a clean and dry area.
2. Perform a detailed check before using the wheelchair after storage.

Troubleshooting

Diagnostic System

The speed display on the joystick also functions as a diagnostic indicator for your power chair. When the light is green, the power chair is functioning correctly. If the light starts flashing, then there's an issue being diagnosed.

1. If it's the first time that the indicator is flashing, power off the power chair, turn it on after a few seconds and recheck the diagnostic indicator. If it continues to flicker, then refer to the diagnostic chart for more information.
2. Issues from motor, brake, battery, wire connection and other parts of the power chair can trigger the diagnostic indicator to flicker.
3. There will be a pause after the initial flashing, follow the flashing pattern to find out which part is causing the problem from the diagnostic chart.

Diagnostic Chart

Flash Pattern	Fault	Solving Recommendations
Flashes one time slowly	Malfunction of left motor	Check the connectors of the left motor
Flashes two times slowly	Malfunction of right motor	Check the connectors of the right motor
Flashes three times slowly	Malfunction of battery charger	Try a different charger. If the problem persists, check the battery cable to make sure it's connected securely.
Flashes four times slowly	Malfunction of left motor	Check the cable connected from controller to the left motor, make sure it's connected tightly.
Flashes five times slowly	Malfunction of right motor	Check the cable connected from controller to the right motor, make sure it's connected securely.
Flashes six times slowly	Malfunction of left brake	Check the cable connected from controller to the left brake, make sure it's connected securely.
Flashes seven times slowly	Malfunction of right brake	Check the cable connected from controller to the right brake, make sure it's connected securely.
Flashes eight times slowly	Malfunction of controller	Contact our technical support team for more assistance.
Flashes nine times slowly	Malfunction of cable	Check the controller coupler connection, make sure it's connected securely.

Flashes four times quickly	Over current of left motor	Switch off the powerchair and wait for 10 minutes before restarting.
Flashes five times quickly	Over current of right motor	Switch off the powerchair and wait for 10 minutes before restarting.

Warranty

14 Months	o Main Frame	o Seat Post	o Platform	o Frame Welds
	o Electrical harness o Controller o Charger	o Joystick o PC Board o Throttle	o Motor / gearbox assembly	o Brakes electro-magnetic function ONLY
12 Months	o Batteries are covered by a separate 6 month warranty provided by the battery manufacturer			
	The following items are warranted to be free of defects in workmanship and material at the time of delivery. If the following items are found to be defective or damaged immediately after the product is removed from the box, Drive DeVilbiss will repair or replace, at its option to the original purchaser, free of charge, the following items:			
	o Plastic shrouds	o Tyres	o Tubes	o Anti-tip wheels
	o Plastic footrests	o Floor mats	o Swing arm	o Motor brushes
	o Upholstery and Seating	o Armrest pads	o Fuses and Bulbs	o Plastic connections
	o Metal connection pins, hardware, nuts, bolts & star knobs	o Bearings and bushings	o Front rigging mounting brackets	o Plastic components, excluding body

ADDITIONAL COMPONENTS

Items not mentioned or listed are covered at the discretion of Drive DeVilbiss. Any accessories, standard or optional, supplied by Drive DeVilbiss, are covered for a period of one year from the date of purchase with the particular unit.

REPLACEMENT PARTS WARRANTY

Parts that are supplied by Drive DeVilbiss as replacements to warranted parts will be warranted for a period of time equal to the remainder of the original part's warranty period.

SERVICE CHECKS AND WARRANTY SERVICE

Warranty service must be performed by an authorized Drive DeVilbiss provider. Do not return faulty parts to Drive DeVilbiss without prior written authorization. All transportation costs and shipping damage incurred while submitting parts for repair or replacement are the responsibility of Drive DeVilbiss.

Failure to follow the instructions, warnings and notes in the owner's manual and those located on your Drive DeVilbiss product can result in personal injury or product damage and will void Drive DeVilbiss's product warranty. There is no other express warranty.

IMPLIED WARRANTIES

Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one (1) year from the date of original purchase and to the extent permitted by law. Any and all other implied warranties are excluded. This is the exclusive remedy. Liabilities for incidental, punitive, special and consequential damages under any and all warranties are excluded.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental, punitive, special and consequential damages. The above limitation or exclusion may not apply to you.

This warranty gives you specific rights and you may also have other rights which vary from state to state.

WARRANTY EXCLUSIONS

- Plastic shrouds and footrests
- Upholstery and seating
- Tyres and tubes
- Brake pads
- Fuses
- Motor brushes
- Circumstances beyond the control of Drive DeVilbiss
- Labor, service calls, shipping and other charges incurred for repair of the product, unless specifically authorized by Drive DeVilbiss.
- Repairs and/or modifications made to any part without specific consent from Drive DeVilbiss.

Dealer Stamp



Drive DeVilbiss Healthcare Ltd, Heathfield Lane,
Birkenshaw, West Yorkshire, BD11 2HW

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