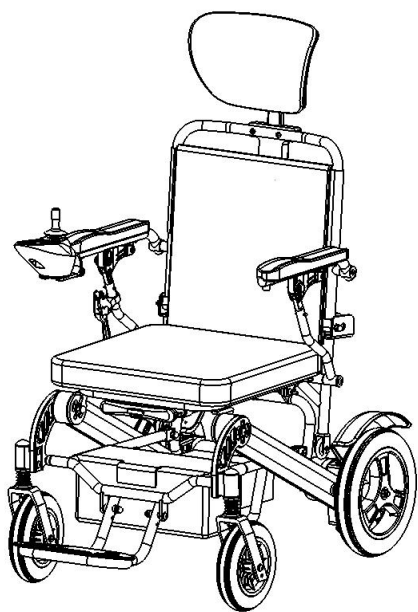




Electric Wheelchair (US)

Product Use and Technical Instructions

Please read the instructions carefully before using the product.

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I. Preface

Dear customer,

Thank you for your love to our company and purchasing our electric wheelchair. The electric wheelchair that we have carefully developed is Lightweight , energy-saving, efficient, flexible and safe.

Before using it, please read this instruction carefully so that you can better understand the functions of the electric wheelchair, better control it, and carry out maintenance and repair as required to ensure that the wheelchair is in good condition.

If you have questions please contact the distributor or manufacturer and we will be happy to answer them!

II. Product Precautions

! Do not operate your electric wheelchair until you have read and fully understood this introduction.

! Do not operate your electric wheelchair until assembly and inspection work has been completed.

! This product must be used under the supervision of the caregiver.

! Please refer to the instructions to regulate the use of this product, such as due to the user or the caretaker of the operation is not appropriate, resulting in injury or death and property and economic loss, the user needs to bear all the responsibility.

! Never get on or off the electric wheelchair when the controller is switched on or when the electric wheelchair is in manual mode and there is no attendant to hold the electric wheelchair in place.

! The caretaker should not leave the wheelchair for care. If it causes injury or death and economic loss of property, the user has to bear all the responsibility.

! Do not tilt or lift the electric wheelchair to one side while using it normally.

! Do not stand on the pedals to avoid the rollover of electric wheelchair.

! Do not turn or steer on slopes.

! Do not have two people manoeuvring the electric wheelchair at the same time to prevent accidents.

! A moving electric wheelchair should be slowed down to less than 1.24miles/h before steering.

! When going downhill, please drive slowly with the lowest gear; when going uphill, please drive cautiously, lean forward appropriately and pass at low speed(less than 1.86miles/h).

! It is recommended that people with mental abnormality, slow reaction time and difficulty in operation should not use the electric wheelchair.

! Please check that the wheel connections are firm and reliable.

! Be gentle when pulling the controller lever and never pull back and forth quickly.

! The controller is the core component of the wheelchair.Do not park the electric wheelchair in the open air for a long time or drive the electric wheelchair outdoors when it is raining, and beware of moisture.

! Please confirm the wheelchair is in"electric" mode before switching on the controller power.

! In the process of wheelchair driving,please do not switch the automatic mode to "manual" mode ; if you need to use radio communication devices such as mobile phones or laptops in "electric" mode, please

switch off the power to the electric wheelchair controller first.

! The electric wheelchair is suitable for use on flat and low-sloping ground. Avoid driving on roads with a slope greater than 9° and across obstacles that are higher than 1.5inch.

! It is strictly forbidden to pass through place with horizontal gaps such as sewers .

! Turn off the power switch on the battery box if the electric wheelchair will not be used for a long time.

! This product is suitable for outdoor use, not to be driven on outdoor plots with too much resistance. In outdoor use shall be used in the range of flat concrete roads in good condition, not suitable for outdoor roads in bad condition (such as lawn, snow, gravel roads, water, potholes, etc.), otherwise it will be easy to cause rollover and cause danger.

! Do not disassemble or modify the electric wheelchair or replace it with parts that are not manufactured by the company.

! It is forbidden to drive on the road, otherwise it is easy to cause traffic accidents.

III. Product Performance and Structure

1. Scope of Application

The electric wheelchair is suitable for the disabled and the elderly and infirm with mobility difficulties.

2. Product Composition

This product consists of frame, controller, motor, battery, pedal, armrest, front wheel, rear wheel.

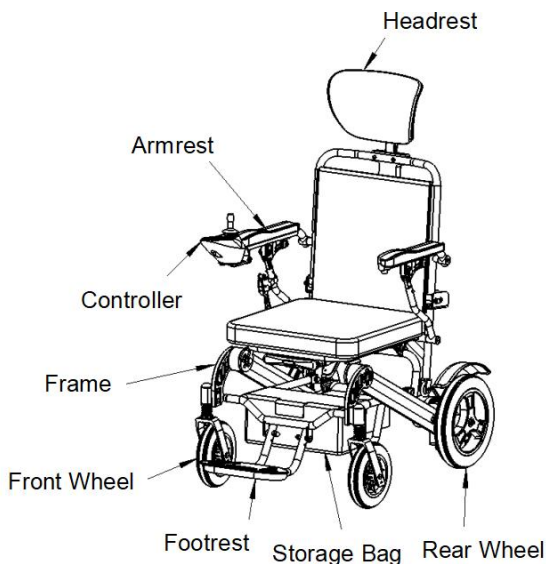


Figure 1 A schematic of the product structure

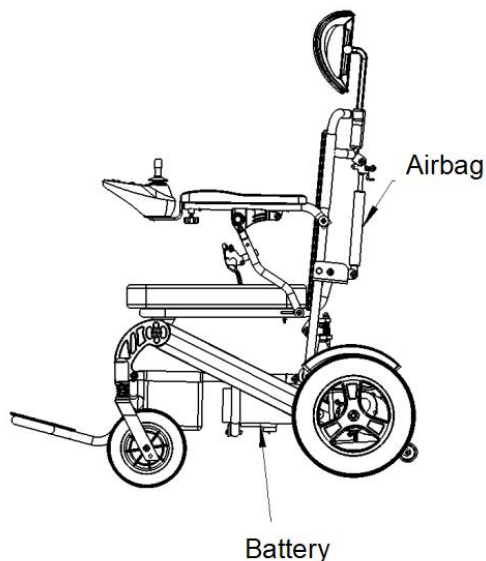


Figure 2 A schematic of the product structure

3. Structural features

- ▶ Energy-saving and efficient motors.
- ▶ Easy to mount and dismount folding frame.
- ▶ Intelligent controller: electric button, electric display, universal joystick, horn.
- ▶ Anti-tipping device.
- ▶ Two operating modes: electric mode and manual mode.

4. Technical parameters

Expanded size: 40.75 × 25 × 47.24 inches		
Folding size: 37.40 × 25.59 × 16.73 inches		
Seat depth: 17.72 in	Seat width: 18.11 in	Seat height: 20.87 in
Backrest angle: 10°-40° (manual adjustment)		Armrest height: 9.25 inches
The total weight: 70.55lbs		Motor electric: 2 x 300W brushless motor/24V
Package weight: 81.57lbs		Package dimensions: 25.59 x 18.31 x 36.42 inches
Front wheel: 8"/PU		Rear wheel: 12"/PU
Product type: Outdoor type		Maximum speed: ≤3.73 miles/h
Ambient temperature: 19°F ~ 122°F		Load: ≤265lb
Battery: 2*12AH replacement battery		
Maximum travelling distance on one charge: ≥2*(12.43 ± 1.86 miles)		
Horizontal braking performance: ≤47.24in		
Maximum safety slope brake: ≤141.73in(6°)		
Crossing height: ≥1.57in		Crossing width: 3.94in
Climbing ability: ≤9°		Resident performance: 9°.
Static Stability: ≥9°		Dynamic Stability: ≥6
Minimum turning radius: 47.24in		
The above parameters may vary depending on the weight of the rider, the Usage environment and battery usage.		
Normal working conditions:		
Ambient Temperature Range: -13°F to 122°F		
Relative Humidity Range: 0%~90%		
Atmospheric pressure range: 700hPa~1060hPa		
Internal electric supply: DC24V±5V		Internal electric supply unit
Electrical requirements: Type B application section		
Operation mode: Continuous operation		
Degree of protection against liquid ingress: IPX4		
Equipment that cannot be used in the presence of flammable anaesthetic gases mixed with air or flammable anaesthetic gases mixed with oxygen or nitrous oxide.		

IV. Symbols Description

Symbols for safety requirements in this machine and their meanings

Notation	Hidden meaning	Notation	Hidden meaning
	Type B application section		Attention! Check the random file
IPX4	Splash-proof, no harmful effects from splashing water in any direction		Fragile item
	Try to improve oneself		Be afraid of the rain
	Stacking layer limit		No tumbling
	The ① symbol indicates an obligation (something that must be observed). Specific mandatory contents are indicated by words or drawings in or near ①. The picture on the left shows "General Compulsions".		
	The symbol indicates a prohibition (something that is not allowed). Specific prohibitions are indicated by words or drawings in or near the text. The picture on the left shows "general prohibitions".		
	Pollution Control Label for Electronic Information Products (Pollution Control Label for Electronic Information Products) has an environmental protection period of 10 years, and consumable products are not included.		

V. Assembly, Commissioning, Folding

► **Wheelchair unfolding:** Take out the whole car and put it on the ground, pull the backrest of the car with one hand, pull the frame with one hand, pull the frame back and forth (until you hear a “click” sound), then you can unfold the wheelchair.

After unfolding the wheelchair, go to the back of the wheelchair and plug in the power cord. (See Figs 3, 4 and 5.)

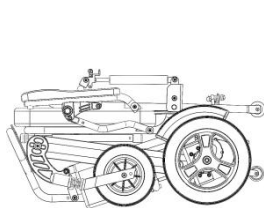


Figure 3

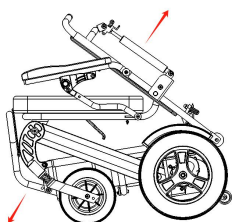


Figure 4

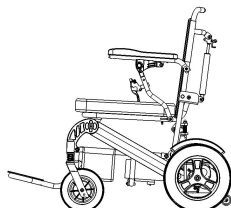
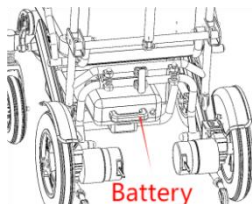
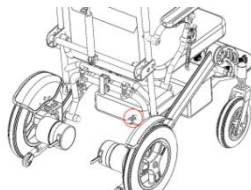


Figure 5

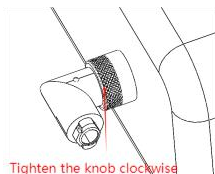
► **Battery Installation:** Insert the battery into the plastic part of the frame (until you hear a “click” sound). Plug the power cord into the battery. (See Figs. 6, 7 and 8)



The red arrow points to the battery
clockwise to tighten



Turn



Tighten the knob clockwise

Figure 6

Figure 7

Figure 8

► **Controller Installation:** Insert the controller into the armrest tube and lock the plum knob counterclockwise. (See Fig 9)

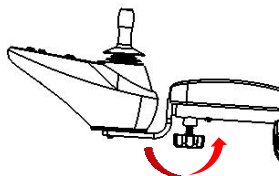


Figure 9

► **Headrest Installation:** Remove the headrest and tool bag and secure the headrest with the tool. (See Fig10)



Figure 10

► **Reversible Armrests:** Press and hold the armrest catch to separate the catch from the frame to lift the front of the armrest upwards. (See Figs. 11 and 12)

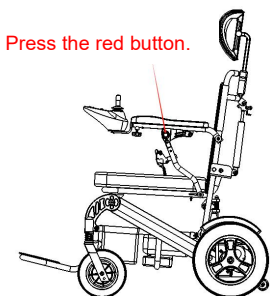


Figure 11

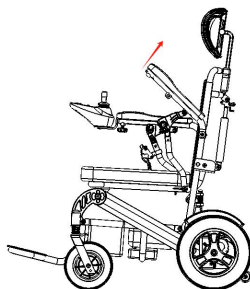
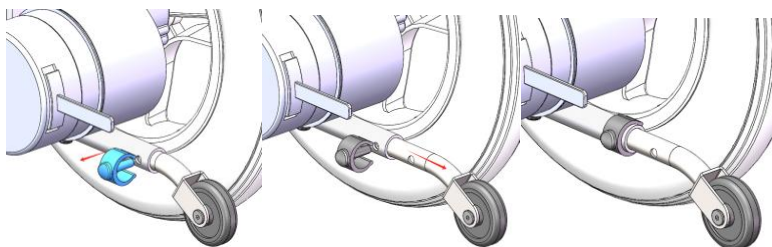


Figure 12

► Use of Anti-tip Wheels.(See Figs.13and 14)



Hold down metal screw

Pull anti-tip wheels to 2nd hole

Install C-Clip

Remove C-Clip

Figure 13

Figure 14

Figure 15

► Wheelchair folding: first find the folding buckle, pull the folding buckle outwards, then press the wheelchair down to the lowest point. (Figs16.1,16.2, 17and18).

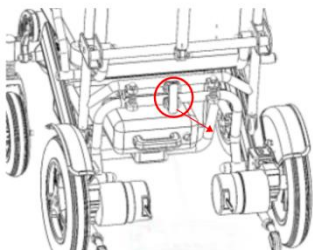


Figure 16.1

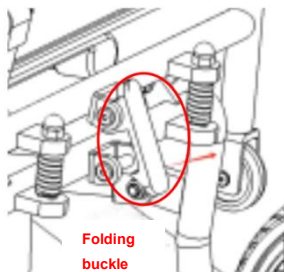


Figure 16.2

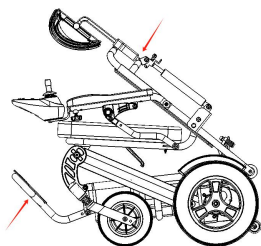


Figure17

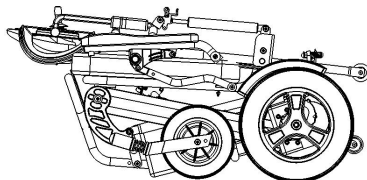


Figure18

► Adjustment of the angle of the backrest: hold the brake in your right hand, lay your back back until it is in a comfortable position and release the brake. (See Figs19, 20,and21).

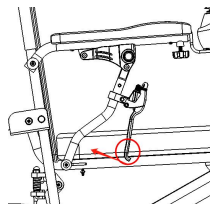


Figure 19

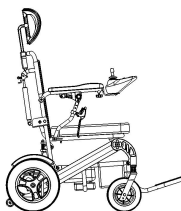


Figure 20

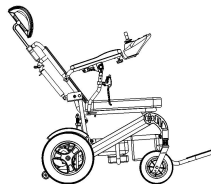


Figure 21

Friendly Reminder: Please read the above installation steps carefully to carry out the correct initial installation for product commissioning and use.

VI. Instructions for Use

1.Controller Function Description

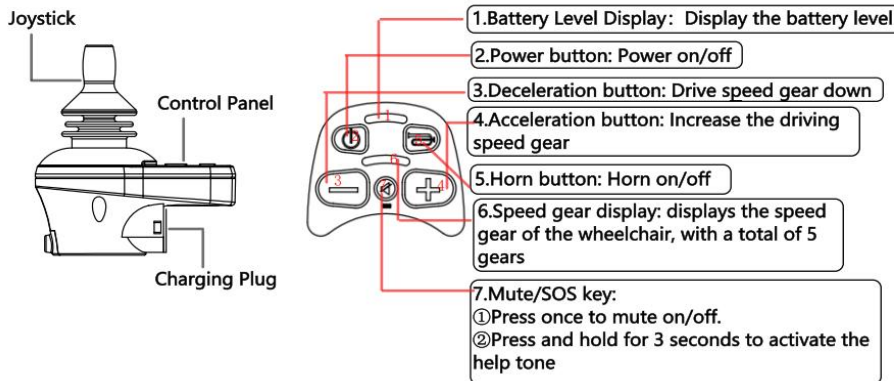


Figure 22

► Joystick

The main function of the joystick is to control the direction and speed of the wheelchair. The direction in which the joystick is pushed away from the centre of the wheelchair is the same as the direction in which the wheelchair is travelling. The further the joystick is pushed away from the centre of the wheelchair, the faster the wheelchair travels. When the lever is released, the brake will be applied automatically; do not push the lever hard when the wheelchair is stopped, but use it as gently as possible. Holding the joystick in your hand, you can control the electric wheelchair to move forward, backward, turn left and right, and release the joystick to return to the position automatically and the wheelchair will brake automatically.

► Battery Capacity Table

Battery gauge that is the battery electric indicator, full mode LED is 1 red, 2 yellow, 2 green, when the 2 green LED lights are on, on behalf of the battery electric is sufficient, only yellow or red LED lights on, on behalf of the battery electric is insufficient, please

charge as soon as possible to ensure that the wheelchair is used normally.

► **Speedometer**

Displays the maximum speed setting for the wheelchair trolley. There are five speed settings: 1 is the slowest and 5 is the fastest.

► **Labrador Button**

Press this button  The horn sounds.

► **Acceleration Button**

Press this button to increase the speed setting value, each time it is pressed, the gear increases by one notch and does not change again when it reaches 5 notches.

► **Speed Reduction Button**

Pressing this button reduces the speed setting value, each time it is pressed, the gear is reduced by one notch and does not change again when it reaches 1 notch.

2. Conversion Between Electric Driving and Manual Push

When the wheelchair is to be manually pushed without power, toggle the motor switch up for "Electric" and down for "Manual".

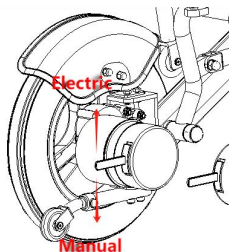


Figure 23

3. Charging Instructions

It is recommended that customers choose to purchase the charger recommended by our company.

Li-ion battery charger output DC24V3A, the two are not to be confused with the use of chargers should be consistent with the GB/4706.18-2014 requirements.

Take note of

Plug the output of the charger into the lower slot of the controller, Fig24.

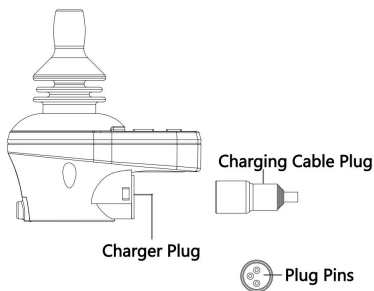


Figure 24

Do not alter the circuit to ensure that it is correct.

Do not disconnect the battery circuit during charging to prevent burns or fire.

4. Normal Driving Steps

- ▶ Turn the hand-operated automatic device from the "Manual" mode to the "Electric" mode.

Take note of

It is not permitted to switch from "Electric" to "Manual" on ramps.

- ▶ Press the electric button of the controller to check whether the electronic brake of the electric wheelchair is effective, if the push does not go, it indicates that the electronic brake is effective, otherwise, you should contact the dealer or manufacturer.
- ▶ Flip the footrests upwards and sit in the electric wheelchair trolley, then lower the footrests.

Take note of

Do not step on the pedals to get on or off the electric wheelchair trolley, as this may cause the electric wheelchair to tip over.

- ▶ After sitting in the electric wheelchair, turn on the electric button of the controller (gently press it for 1 second), the indicator light will come on, and the joystick should be in the middle position at this time.
- ▶ You need to concentrate on controlling the wheelchair, this is especially important for first time drivers. Always make sure the handbrake is in the 'Electric mode' position before travelling; the joystick controls both direction and speed. Push the joystick slowly in the direction of travel and the electric

wheelchair will start to move, increasing the amount of push on the joystick accelerates the wheelchair, and vice versa slows the wheelchair down.

► If you want the moving electric wheelchair trolley to stop, just let go of the lever to reset it and stop smoothly.

► The speed adjustment button on the controller regulates the speed of the electric wheelchair, and the user should choose the maximum speed of the electric wheelchair according to his/her physical condition and the road conditions.

► Electric wheelchair vehicles are suitable for travelling on flat surfaces. For travelling on muddy, potholed or uneven surfaces, the drive mechanism and control system of the electric wheelchair may be damaged.

VII. Routine Maintenance and Upkeep

Take note of

Electric wheelchair, like any other electric wheelchair, requires regular maintenance.

► Adjustment and replacement of worn parts is strongly recommended; call a professional or contact the manufacturer.

Inspection Cycle	Everyday	Daily	Every month	Every 3 months	Every 6 months
Battery Level	√				

Tyre Wear			√		
Cords			√		
Chassis					√
Controller Functions	√				
Electrical Machinery					√
Fasteners				√	
Seat and Back Cushion					√
Cleanliness		√			

●Among them, the replacement of wearing parts is as follows (if there are difficulties in the replacement of parts, please contact the manufacturer in time, by the factory commercial replacement).

●Replacement of front wheel: Unscrew the screws with a spanner, remove the front wheel, install the new front wheel, lock the screws, adjust the screws, and make sure the front wheel rotates flexibly.

● Rear Wheel Replacement: Professional repair and replacement or contact the manufacturer.

Seat (back) cushion: Unscrew the screws with a screwdriver, remove the seat (back) cushion, put on the new seat (back) cushion, and lock the screws with a screwdriver.

● Replacement of armrest: Unscrew the screws with a spanner, remove the armrest, fasten the new armrest, and tighten the screws with a spanner.

► Battery: Mainly check the remaining battery electric. If the battery has reached the end of its life span and needs to be replaced, contact the supplier, manufacturer, or purchase a battery with the same specifications locally.

► Tyre pressure: **Recommended size 7.87 x 1.77-4.33in (8") and 12.2 x 1.97-7.99 in (12")**

► Wires: electrical parts and connecting wires, check for damage or breakage, if so, contact the supplier or get a qualified professional to deal with it, do not try to repair it by yourself.

► Hand brake: prevents the wheelchair from moving after stopping and cannot be used as a brake when travelling; check whether there is any brake failure and, if so, make adjustments to restore it.

► Frame: the surface coating of the frame should be scrubbed with a soft cloth and kept clean frequently; the use of lubricants to maintain the wheelchair is prohibited. If you find the frame cracked, please contact the supplier.

► Maintenance of the controls: Clean the controls and joysticks with a cloth moistened with a neutral diluted detergent. Clean the joysticks carefully and never use abrasive materials or alcohol-based cleaners. When transporting the wheelchair trolley, protect the controls from damage.

- ▶ **Motor:** Check for oil leaks or increased noise, if so contact the supplier or manufacturer.
- ▶ **Reliability maintenance of connecting parts:** Check frequently whether the screws and nuts on the body are in a tightened mode, and if there is any problem, please deal with it in time to ensure the safety of driving.
- ▶ **Seat cushion:** Wash the cover and backrest with lukewarm and diluted soapy water and avoid storing the wheelchair in a damp place.
- ▶ **Braking distance:** travelling brake. The method of checking is to let the wheelchair go forward in a straight line at the maximum speed on a flat asphalt road, then release the lever of the controller and let it return to the original position automatically, measure the distance from releasing the lever to stopping the wheelchair, if this distance is bigger than the original one, then the braking effect is reduced, if this distance is more than 50.06in, then you should contact the supplier or the manufacturer for repairing.
- ▶ **Maintenance and care of batteries:**

Pay attention to the electric indicator on the controller panel, if the green light is not on, please charge it as soon as possible; if the red light is on, the battery is seriously insufficient, and must be charged immediately to avoid low battery voltage, which will affect the service life of the battery.

 - The battery is clearly marked with positive and negative terminals, and there is a secure connector to ensure the normal connection of the circuit, non-professionals should not connect the circuit.

● The batteries are maintenance-free and do not require replenishment of liquid. During the charging process, the temperature of the battery will rise, but it is not allowed to exceed 113°F; if it exceeds 113°F, the charging should be stopped, and the charging can be continued only when the temperature drops to below 85°F. **If the wheelchair is not used for a long period of time, the battery should be recharged at least once a month.**

● The battery has a service life, after normal long time use, if you find that there is a significant difference between the driving mileage of the electric vehicle and the nominal mileage at the end of charging, please replace the battery.

● Do not use the battery at temperatures $\geq 158^{\circ}\text{F}$ or temperatures $\leq -77^{\circ}\text{F}$.

● Keep the battery clean and dry, do not use hard objects to knock the battery, store the battery and keep it out of the reach of children.

● The electric switch on the battery compartment cuts off the battery electric and reduces the natural loss of battery electric.

● "Full mode", make it a habit to keep the battery in a full mode of charge, and depending on your usage, please recharge the battery in time to keep it in a "full mode of charge" for a long time.

● Replacement of batteries

When replacing the battery, replace the battery as follows:

1. Remove the nuts securing the battery.

2. Press the clips on the bottom of the battery inward and remove the battery.

3. Install the new battery, reinstall the removed nuts, and insert the connector from the battery into the controller..

► Dispose of waste in accordance with national regulations on environmental protection.

⚠ Disconnect the electric cord from the battery compartment during transport.

VIII. Transport and Storage

1. Transport

During transport, the product should be upright and upward, no rain, no tumbling, careful and light, and limited to a height of 2 floors.

2. Storage

The product should be placed in a dry and ventilated place, and should be avoided to be placed in the environment of high temperature and rapid change of temperature; the product should be isolated from acid, alkali and other chemically corrosive substances.

3. Environmental constraints on transport and storage

Ambient temperature range: -40°F~+149°F

Relative humidity range: 0%~90%

Atmospheric pressure range: 700hPa~1060hPa

IX. Fault Judgement and Handling

Fault code		
Fault display code	malfunction	Troubleshooting methods
E1 /The power light intermittently flashes once	Handle not returned to its original position	Do not operate the joystick during the startup process. After startup, hold it for 1 second before operating the joystick!
E2 /The power light flashes intermittently twice	Poor connection of the left motor	Check if the left motor connection wire and controller connection are normal!
E3 /The power light intermittently flashes 3 times	Poor connection of the left brake	Check if the left motor brake cable and controller connection are normal!
E4 /The power light flashes intermittently 4 times	Poor connection of the right motor	Check if the connection between the right motor cable and the controller is normal!
E5 /The power light intermittently flashes 5 times	Poor connection of the right brake	Check if the right motor brake cable and controller connection are normal!
E6 /The power light intermittently flashes 6 times	Current overload or stall protection	Overloading, current overload, or stall protection.
E7 /The power light intermittently flashes 7 times	Handle malfunction	Check if the joystick has not returned to its original position during the startup process, and if it is blocking the jamming phenomenon!
E9 /The power and speed lights flash intermittently 3 times	Brake failure	Check if the motor brake clutch is in the correct position or if the wheelchair brake parameters are set incorrectly!

E10	MOS transistor short circuit	The controller needs to be returned to the factory for after-sales service!
E11 /The power light red flashing	Low battery	Check if the battery voltage is under voltage or over voltage!
E12 /The leftmost light of the speed indicator flashes intermittently twice	The left motor short circuit	Check if the left motor connection wire is damaged, short circuited and overloaded at both poles!
E13 /The rightmost light of the speed indicator flashes intermittently 4 times	The right motor short circuit	Check if the connecting wire of the right motor is damaged, short circuited and overloaded at both poles!
E14 /The power light intermittently flashes once	Motor stalling	Check if the motor is stuck by foreign objects or tunnels.
The middle light of the speed indicator flashes intermittently once	Manual/electric mode switch error	Electric mode requires the switch to be set to 1

Most electric wheelchair failures are related to the battery, motor and controller.

Serial Number	Fault Description	Cause Analysis and Troubleshooting
1	Electric indicator does not light up when controller electric button is pressed.	The battery is not connected correctly to the controller, check and reconnect correctly.
		Battery voltage is too low, charge the battery and if it still does not light up, the battery may have reached the end of its life, replace the battery.
		For controller problems, contact your distributor, the manufacturer, or aftermarket service.
2	Low battery voltage	The contact between the battery and the controller plug is not reliable, please plug it again.
		The contact resistance of the wires between the batteries is large; if the contact resistance is not large, the contact surface may be oxidised or loose, remove the oxidised layer or install a good connector.
		The battery voltage is too low, the battery has reached the end of its service life, please replace the battery.
3	High battery voltage	The battery is charged too high, and at the end of charging, the voltage is not greater than 29.4V.
4	Motor not working	The connection between the motor and the controller connector is not reliable, please reconnect it.

		If the motor is faulty, contact the distributor, manufacturer or after-sales service.
5	Motor brake failure	The motor connector is not plugged in reliably, please plug it in again.
		The electric brake coil has been damaged.
6	No indication of charging	The connection between the motor and the controller connector is not reliable, please reconnect it reliably.
		The battery has reached the end of its life or the charger is damaged, replace the battery or charger.
7	Distance travelled after charging shortest (of routes)	The battery is not full, please recharge it.
		Replace the battery as it nears the end of its useful life.

X. EMC and Description

! Attention:

- The electric wheelchair trolley meets the requirements of YY0505 and GB/T 18029.21 standard on electromagnetic compatibility.
- Users should install and use the product in accordance with the EMC information provided in the supplied documentation.
- Portable and mobile RF communication devices may affect the performance of the electric wheelchair. Avoid strong electromagnetic interference when using the trolley, e.g. near mobile phones and microwave ovens.
- Basic performance of this product:
 1. Standby mode, electric wheelchair trolley does not move differently.
 2. Exercise mode, the electric wheelchair trolley works normally.
- Guidelines and manufacturer's declarations are detailed in the annex.

! Warning:

- electric wheelchair vans should not be used in close proximity to or stacked on top of other equipment, and if they must be used in close proximity or stacked on top of each other, they should be observed and verified to function properly in the configuration in which they are used.

XI. After-sales Service

Warranty Notes:

Thank you again for your support, we hope that our product can bring you some convenience. If there is any problem with the product, please don't return it first, you contact us via the after-sales e-mail, we will help you solve the problem.

(Note: If there is any possibility of return, please keep the original packaging)

Contact

If you have any questions, please contact us:

ELEISIOS-Service@outlook.com

● The warranty period for the important parts thereof is as follows:

Serial Number	Character Radical	Warranty Time
1	Frame	1 years
2	Controller	1 year
3	Motor	1 year
4	li-ion battery	half a year

► The following are not covered by the warranty:

① fragile and consumable parts: back cushions, tyres, armrests; ② unauthorized disassembly, repair, transformation of the product and the failure; ③ in the use, handling the process of accidental fall and the failure;

④ improper use or other accidents and man-made damage; ⑤ not in accordance with the instructions of the correct method of operation and the cause of the failure; ⑥ unforeseen natural disasters (such as: fire, earthquake, flooding, etc.) caused by the damage; (vii) No warranty card; (viii) the product model recorded on the warranty card does not match the model of the repaired product or has been altered.

► The device number is displayed on the crossbar of each electric wheelchair vehicle.

Take note of

If there is a need for repair, we can provide circuit diagrams, component lists and information necessary for repair, and contact the manufacturer if there is any doubt about the circuit overhaul.



Note: If your remote control does not match the main controller when received, please scan the QR code to watch the video

THANK YOU !