



Dongguan Prestige Sporting Goods Co., Ltd.

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### **Important information**

Dear users,

Thank you for selecting the electric wheelchair! You must read and understand the operating instruction, especially the "safety instruction" part before you use the electric wheelchair of the company. The main purpose of the operating instruction is to be familiar with the functions and characters of the electric wheelchair of the company and how to operate it by the best mode. It also includes some important safety information and maintenance information, as well as the description of the possible problems in the driving process.

Keep the operating instrument on the electric wheelchair, because you may look up the important information of use, safety and maintenance of electric wheelchair at any time, and you can also acquire the relevant information of products of the company through the homepage of the company website (**www.solaxtech.com**); or contact with the dealer, or call China Solax Sports Co., Ltd. (**TEL:** +86 0769 8592 2501).

All information, pictures, illustrations and specifications in the operating instruction are based on the product information provided in printing the operating instrument, and all pictures and illustrations are representative examples, but are not aimed at exactly describing each part of the electric wheelchair. Due to continuous improvement of the product, the company reserves the right to change the product but not to notify in advance.

### Safety instruction - overview

#### 1.1. Application scope

It is used as the wheelchair of the disabled, patient and the old and infirm who are difficult in action. The maximum safe load of the electric wheelchair is 125 kg.

#### 1.2. Instruction on driving safety

- 1). The user must be firstly familiar with its usage mode and operating mode before driving the electric folding wheelchair, so memorize the chapter of the operating instruction.
- 2). Evaluate the personal physical health condition of the user firstly before driving, and it is not appropriate to drive under the following circumstances: The patients with illness or discomfort and visual impairment, especially the patients with unsound upper limb, acute tumor and heart disease, pregnant or menstrual women, children (under 12 years old), and the patients with inconvenient action or slow perception, unconsciousness, coma and poor blood circulation or serious sensitive skin; The users who concern about own health firstly consult the physician before using; The users who are equipped with the heart rate adjustor firstly consult the physician before using.
  - 3). Do not stop the wheelchair on the slope when driving;
- 4). Prohibit from riding the electric folding wheelchair for fear of danger after drinking, feeling fatigued or taking medicine.
  - 5). Avoid riding the electric folding wheelchair at night for fear of danger.
  - 6). Confirm that the power is off firstly when getting on and off the electric folding wheelchair.
  - 7). Do not ride the electric folding wheelchair on the motorway.
- 8). Do not connect any mechanical or electronic device on the electric folding wheelchair privately for fear of personal injury.

- 9). Do not drive at the gradient of more than 8°. Do not span across the groove that the span is more than 100 mm; Do not forcibly span across the step at the height of more than 40 mm.
- 10). Do not drives on the water-logged, frozen, moisten, slippery ground or saline-alkaline land, and otherwise the accident and personal injury may be caused.
- 11). Do not combine with the vehicles each other, and otherwise the accident and personal injury may be caused.
- 12). The electric folding wheelchair will be affected by operation under the specific electromagnetic interference, such as security system or automatic door of general store.
  - 13). Do not use the electric folding wheelchair to carry the articles or passengers.
- 14). Prohibit from climbing or driving along the edge of the road, and otherwise the vehicle will be perpetually damaged.
  - 15). Do not exceed the maximum bearing weight.
- 16). Do not take the automatic electric handrail for fear of overturning danger when driving the electric wheelchair.
- 17). Do not make a turn at s curve or suddenly rotate for fear of overturning danger when driving the electric wheelchair.
  - 18). Charge the electric wheelchair fully firstly before using.

#### 1.3. Instruction on safety precaution

- 1). Do not operate the wheelchair before the user does not fully read and understand the user's manual.
  - 2). Do not drive after driving.
  - 3). Do not leave the key on the wheelchair when it is not guarded.
  - 4). The seat must be locked and fixed in place.
- 5). Be careful of slowing down when driving at the turning and on the uneven rock or soft ground, or close to the slope, bulged ground and zone free from protective edge (such as kerbside, vestibule and stairs).
  - 6). Prohibit from changing the initial setting of wheelchair and refitting it.
- 7). Be careful of driving on the busy street, market or shopping center, prohibit from driving on the unsafe zone and legally forbidden road, and consult the traffic rules of local government or national agency on driving wheelchair.
  - 8). Hold the handle by both hands and place two feet on the pedal in driving.
  - 9). Prohibit from placing the wheelchair on the moving vehicle as seat.
  - 10). When the wheelchair is transported on other vehicles, please ensure the safety of battery.
  - 11). Do not back up on the uneven ramp or ground, and be careful of passing ramp.
- 12). Do not drive at night, in rainy day, snowfall day and haze day and strong wind day and on the narrow road, uneven road, etc.

#### 1.4. Instruction on practice

- 1). Take practice firstly before using the electric folding wheelchair.
- 2). Take practice in the wide and open area to avoid danger.
- 3). Practice items; Accelerate/decelerate/park/back up/turn/uphill and downhill, please take more practices and be skilled.
- 4). Adjust the speed to the slowest speed firstly, and speed up according to the proficiency in the initial practice.

- 5). It is suggested to be accompanied by the "carer" in the whole process to avoid danger and accident in the initial practice and initial use.
- 6). The electric folding wheelchair is controlled by the user through fingers to move forward and backward and turn left and right, and master the speed, so the user must be capable of: Reading and understanding the operating instruction, distinguishing and evaluating the danger, safety awareness and rapid reaction.

### Specification of design and function

#### 2.1. General overview of product

Working principle: The electric wheelchair is a power wheelchair supplied by battery energy and controlled and driven by electronic device. The user can drive the wheelchair to move through control device.

It mainly consists of the motor, battery, control system, wheel, seat, handrail, etc. The folding mode is divided into automatic version and manual version, they are basically consistent on the structure and outline, the main difference is that the manual version means that the wheelchair is operated manually in folding and unfolding, and the automatic version means that the wheelchair is folded and unfolded by wireless remote control instead of manual operation. The overall design is characterized by modern leisure style, safety and comfort, simple operation, carrying by folding, portability and firmness.

The total mass of the electric wheelchair is  $\leq$  32 kg.

The type of the electric wheelchair produced by the company is CLASS A (indoor), and the applicable standard requirement in ISO 7176 is used in the performance index in the technical requirement.

2.2. Description of structural composition and diagram

The electric wheelchair is mainly composed of the following parts: the upper controller, the armrest bracket group, the seat main frame, the motor group, the front pedal, the front and rear wheels, the anti-rolling wheel, the battery pack, and the push rod.

As shown below:



### 2.3. Main technical parameters:

	Product Performance Specifications version: A/0				
Manual folding and unfolding		Pedal can be extended forward 0-9CM (optional)			
Operation function	The controller end o	of the armrest can be	Quick battery disassembly		
	Expand Size (mm)	820*610*970mm	Maximum weight	125 kg	
size and weight	Folded size (mm)	430*610*810mm	Platform weight	18.5kg(Battery free)	
			Battery weight	1.84kg	
	Seat ground clearance (mm)	480mm			
	Seat width (mm)	490mm(Inside the armrest)			
	Seat depth (mm)	410mm	Front wheel size (6"or7")	7"Pneumatic tires (changeable solid)	
	Backrest height (mm)	410mm	Rear wheel size	8"Pneumatic tires (changeable solid)	
	Top speed	6km/h	Controller(M7084)	nVR-2/50A/JSM	
	Travel distance	15KM	Power lithium battery	10AH*1	
	Turning radius	≤600mm	charger	AC110-220V DC29.4V 2A	
Control System	Obstacle crossing ability	≤40mm	Climbing angle	0°-8°	
	Driving method	Rear wheel drive	Wheelchair motor(R/L)	24V*137W*Rated speed 154±10r/min(No-load speed180±10r/min) Reduction ratio 1:17	
			Electromagnetic brake	YES	



The final confirmation specification is subject to the vehicle.

### **Operating instruction**

#### 3.1. Description of operator's ability:

- 3.1.1. The electric wheelchair is controlled by the user through fingers to move forward and backward and turn left and right and folds and unfold, and master the speed, so the user must be capable of:
- Be capable of reading and understanding the operating instruction
- Be capable of distinguishing and evaluating danger
- Have the safety awareness or follow the road safety specification
- Have the rapid reaction ability
- 3.1.2. Description of requirement for getting on and off:

The operator shall get on and off according to the following diagram or be assisted by the carer:



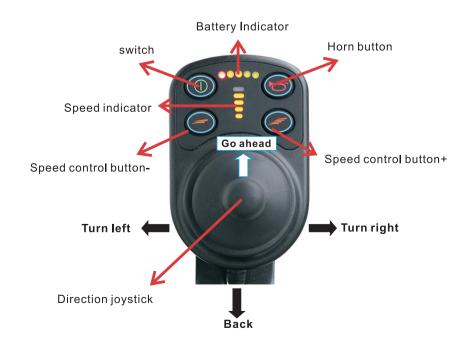
Diagram of getting on



Diagram of getting off

#### 3.2. Controller:

## 3.2.1. Controller settings As shown below:

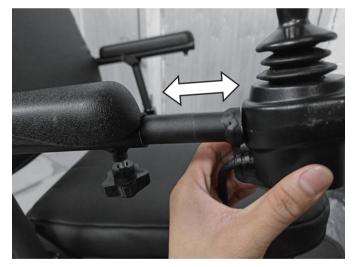


- 3.2.2. Instructions for each setting:
- 3.2.2.1. Power switch, press once to turn on the power, then press again to turn off the power.
- 3.2.2.2. Horn button key, press the key horn to sound, release the key horn to stop.
- 3.2.2.3. Speed display light, speed control button-, speed control button +, when the speed control button + is pressed, the speed display light is displayed to the right, indicating that the speed mode is entered; when the speed control button-is pressed, the speed display light is left Displayed to indicate slow mode.
- 3.2.2.4. Direction control lever. When the direction control lever is moved forward, the car will move forward. The larger the moving range is, the faster the speed will be; when the direction control lever is moved backward, the car will move backward and the moving range will be greater. Larger, the faster the reverse speed; when the direction joystick is moved to the right, the car turns to the right, the greater the range of the movement, the faster the right turn; when the direction joystick is moved to the left, the car turns to the left. The larger the moving range, the higher the left turn speed.
- 3.2.2.5. According to the length of the user's arm, you can adjust the upper controller to lock the switch when it is suitable for your position.

#### As shown below:



1. Open the release switch.



2.Adjust the length of the upper controller, and finally lock the switch.

3.2.3. On the controller's power indicator, the full green light indicates that the battery is fully charged, and the only remaining red light is on when the battery is low and you need to charge the battery. There is a charging jack at the bottom of the upper controller. When the car's battery level is insufficient, insert the charger plug into this hole to charge.

As shown below:

The round hole in the picture is the charging jack.



- 3.3. Manual folding and unfolding:
- 3.3.1 Manual folding wheelchair As shown below:
  - ① Preparation: press the release button with both hands and put the handle upright.



② Stand behind the seat, hold the push rod with both hands and press it down in the forward direction.



③ Fold the pedal and finally fold the whole vehicle.



#### 3.3.2. Unfold the wheelchair manually

#### As shown below:

- ① Bend down, put the putter in both hands and lift it up.
- ② Continue to pull until the vehicle is fully deployed.









If you feel that your wheelchair is not responding during the folding and unfolding process, please check if there are obstacles blocking it.

#### 3.4. Manual brake switching function:

Press the Manual brake on both sides to switch to manual push mode:



3.4.1 You can use the handle for easy handling.



3.4.2 You can use the pusher to push the car around.



#### 3.5. USB interface:

The upper controller is equipped with a USB interface.

#### 3.6. Foot rest:

The front pedal can be folded away and opened during use.

#### 3.7. Overcurrent protection:

note! When you ride the electric folding wheelchair for a long time to climb the hill and it is overloaded or exceeds a certain current, the overcurrent protector will jump off. After five minutes, press the reset button to return to normal.



- 3.8. Description of misoperation
- -The connection of battery electrode is not tight.
- -The manual push mode is not closed.
- -The joint of power is connected reversely.
- -Do not wash it directly by faucet.
- -Do not scrub it with oil or chemical liquid.
- -Do not fold and unfold the body on the slope.

### Maintenance and care

#### 4.1. Maintenance

- 4.1.1. Place the wheelchair in the dry and ventilated place and avoid the oil, acid, alkaline and other corrosive chemical substances.
- 4.1.2. Keep the body clean: The control panel, shell, etc., are made of the durable ABS plastics, and the surface is painted. The wheelchair cannot be wiped with oil or other chemical liquids; The wheelchair cannot be scrubbed with sharp brush to prevent the surface from being scratched; The wheelchair cannot be directly washed by the faucet to prevent the electrical module from being damaged. The wheelchair can be directly wiped with clean rag, or wiped after the clean rag is stained with clean water and wrung.

The wheel cannot be wiped with oil or other chemical liquids and be directly washed by faucet, but the surface can be directly wiped with clean rag or soft brush, or wiped after the clean rag or soft brush is stained with clean water and wrung or dried.

The surface of the seat is only wiped directly with the clean rag, or wiped after the clean rag is stained with clean water and wrung.

- 4.1.3. The wheelchair shall avoid from being exposed under the sunshine and rain, it is prohibited from riding the wheelchair to take a shower, the wheelchair shall be timely dried after being stained with water, and the bearing position is added with lubricating oil.
- 4.1.4. The wheelchair is electric, and it is prohibited from being used in playing a ball game, racing and other sports activities.

- 4.1.5. The user shall often check the air pressure of the pneumatic tire, pay attention to checking the wear of pattern of tire, and replace it when necessary.
  - 4.1.6. Often check the screw, and tighten it if the screw is loosened.
  - 4.1.7. Often clear the objects of wheel bearing (such as hairline and thread residue).
- 4.1.8. Often check the sensitivity of brake, and pay attention to whether the cushion is broken to ensure safety.

#### 4.2. Care

- 4.2.1. Basic maintenance when the wheelchair is used every day: Check it before using every day, and check whether the appearance of the wheelchair is broken.
  - 4.2.2. Monthly or yearly basic maintenance

Connection of battery electrode: The electrode on the battery box is closely connected with the electrode on the body, and is not corroded; (Every month) the battery must be placed in the battery box according to the order and the electrode is closely connected (the battery box cannot be randomly opened for checking). (Yearly)

Electric wire joint: Regularly check all exposed electric wire joints; (Monthly)

Regularly check the insulation of all exposed electric wires, including power plug of charger; (Monthly)

Repair or replace the damaged fittings and joints. (Yearly)

All key screws or nuts

Regularly check whether all exposed screws or nuts are loosened. (Monthly)

Bearing and motor/driving part of electric wheelchair:

If the module has been injected with the lubricating oil and used in a closed way, it is unnecessary to be injected again; (Yearly)



Avoid all electrical modules from being damped. Such as control panel, charger and electrical controller. If part of modules is damped, they can be used after being dried.

### Instruction and precaution of battery

- 5.1. One lithium battery is used.
- 5.2. When the battery is used for the first time, the power in the battery must be fully used up, and then be charged, until it is fully charged;
- 1)In order to ensure smooth driving of the electric wheelchair, it must be fully charged before travelling;
- 2) The wheelchair is charged according to the voltage of the country and region and configured charging plug, but the too low or too high voltage and unmatched plug cannot be used to prevent the charging from being damaged.

3)If the wheelchair is not used for a long time, turn off the battery power, the power switch is installed on the battery shell.

#### 5.3. How the battery is charged

After the battery is used for a period, the electric quantity of the battery shall be timely checked, when the electric quantity is unsaturated or less, the battery shall be timely charged, and otherwise, the wheelchair will not run normally. Charging steps:

1)The user shall confirm that the power of the electric wheelchair has been closed. The user shall place the charger, turn off the power switch on the charger, insert the charging plug of the charger in the charging socket of the controller, insert the other end in the domestic power socket hole, open the power switch after being connected, the red light is on, it means that the charger has entered the charging mode, when the orange light is on, it means that the battery is being charged. The orange light becomes green light when the power is saturated.



The battery must be protected at the frozen temperature, the frozen battery cannot be charged, and otherwise, the battery will be damaged, and the personal injury will be caused.

- 2)If the internal battery is replaced, contact the manufacture.
- 3)After the battery is fully charged, unplug the AC input power plug, and then unplug the DC charging connecting plug, and complete the charging.
- 5.4 After the main power switch is opened, if the red light is not on, the user shall check whether the power plug is plugged well, and otherwise, the fuse is burnt out;
- 5.5 The charging time is 6-8h in general.



If the electric wheelchair is not used for a long time, the battery may have been frozen. If the wheelchair is used again, it cannot be charged in a hurry. The battery shall be warmed and continuously placed in room temperature for several days before charging.

### Transportation condition and storage environment

The wheelchair is packaged with the kraft material to prevent from being sprayed with water, top pressed by hard object, and be transported by sea, air and land.

The product is stored in: (-5°C-40°C temperature, 10%-80% humidity) shady and cool, dry, ventilated and corrosive gas-free place. It cannot be exposed under the direct sunshine and mixed with the flammable and explosive substances, and otherwise, the product performance may be reduced or damaged.

### **Environmental protection**

Treatment of wastes: The battery wastes of the electric wheelchair shall be properly treated according to the local laws and regulations after the end of service life, such as solidification and deep burying, storage in the waste mine and recycling, and cannot be randomly abandoned.

# Description of replacement of vulnerable parts under normal use environment

The damaged materials are provided and replaced by the manufacturer in normal use.

The damaged fuse is provided and replaced by the manufacturer in normal use.

### Mode of packaging and accessories list

The product is packaged with the kraft carton, and the accessories are built in: One operating instruction (including warranty card); A set of battery (installed on wheelchair/separately packaged according to the client's requirement); A set of remote control & key case.

The model of charger of the electric wheelchair and manufacturer's information include:

Name	Specification / model	Manufacturer
Charger	Input 100-240 V, 50/60 Hz, 1.4 A Output DC 29.4 V/2 A	Shenzhen Teka Technology Co., Ltd.

### **Troubleshooting Guideline**

- 1). When the power switch is pressed, but the power indicator is not on, check whether the power line is correctly connected with the control line. The contact is loosened or not, and the battery is electrified. Check whether the fuse in the battery box is disconnected, and replace it.
- 2). After the power switch is started, the indicator also normally displays, but when the electric wheelchair cannot still be started, check whether the clutch is switched to the correct position, when the clutch is used for separation, the clutch lever is turned to both sides until 90°, and it is closed when it is put back.
- 3). When the user drives the electric wheelchair, if the speed is inconsistent and the wheelchair stops and goes, the user shall check whether the tire pressure is enough, the motor is overheating, has noise or other abnormal phenomena. The power line is loosened or not. If the controller is damaged, send it back to the factory for maintenance.

- 4). When the brake is invalid, check whether the clutch is switched to the correct position. Check whether the "control lever" of the controller is normally rebounded to the middle position. The brake or clutch may be damaged, send it back to the factory for maintenance.
- 5). If the circuit and component are damaged, send it back to the factory for maintenance. The supplier can provide the circuit diagram, component list, icon and correction rule as required, or other data required by repairable equipment parts assigned by the manufacturer which are conducive to repairing of the qualified technician of the user, and the non-professionals cannot open them.
  - 6). When the wheelchair cannot be normally charged:
  - a. Check whether the charging voltage is matched.
  - b. Check whether the cooling fan of the charger normally runs, and the fuse is normal.
  - c. Check whether the joint of the charger contacts with the interface of the controller well.
- d. Extend the charging time, if the battery cannot still be charged fully, please replace it. The battery may be broken or aged, please replace it.

### **Contact information of technical support**

Manufacturing address: No. 3 Qiaotou Industrial Park, Houjie Town, Dongguan City

Contact number of manufacturer: 0769-8592 2501

Fax: 0769-8592 2505

After-sales service unit: Dongguan Solax Sports Co., Ltd.

### Warranty card and warranty specification

- 6.1 The warranty card is shown in Appendix B
- 6.2 Warranty scope specification:

If the quality problem occurs to the parts on the material, manufacturing or assembly under normal use, the agent is responsible for maintaining or replacing the parts.

The product will not be warrantied under the following circumstances:

- 1) Not correctly operate, use and care according to the operating instruction;
- 2) Not use the spare and accessory parts produced by the regular manufacturer;
- 3) Accident;
- 4) Privately alter the design of the electric wheelchair without approval of the company (such as programming of controller);
- 5) Damage caused by typhoon, flood, earthquake and other natural disasters.

# Interpretations of graphics, symbols, Issue 2020-09 REV1

# abbreviations and other contents used for the labels of medical devices

∱	Type B application part
X	Separate treatment sign of waste electrical and electronic equipment (Please follow the local laws and regulations)
$\triangle$	Note, refer to the attached documents
-+	Battery
	Warning on clamping hands
*	Keep away from the sunlight
<del>*************************************</del>	Keep away from the rain

### **Appendix Warranty Card**

User name	ID Card No.	
Domicile	Contact number	
Machine type	Vehicle No.	
Purchase date	MM/DD/YY	
Warranty period	12 months from the date of purchase (6 months for battery)	
Manufacturer	Dongguan Prestige Sporting Goods Co., Ltd.	
Name of agent (seal or signature)		
Contact number (or address)		



