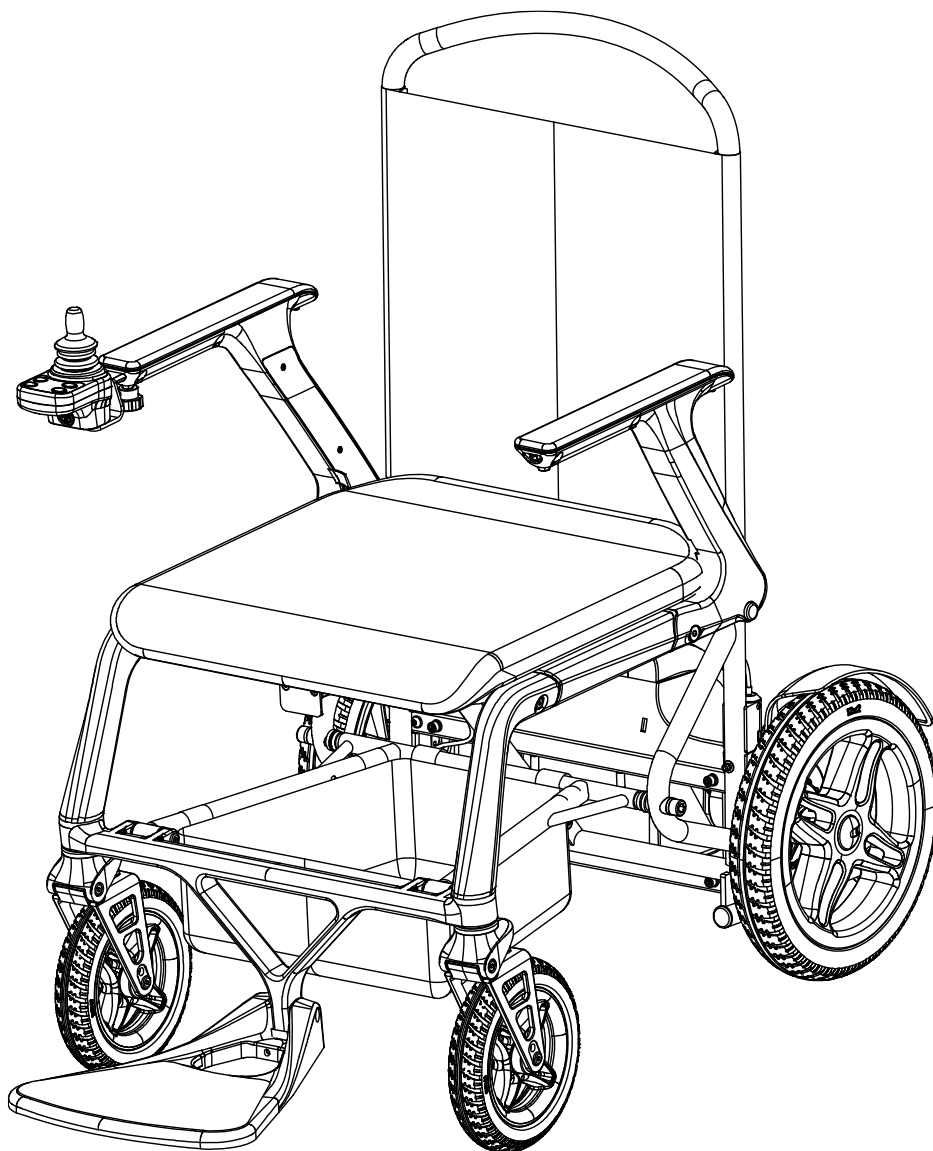




Lunar Power Wheelchair

Date of preparation: 2025-11-10 Version: V.01

Instruction number: MP208-SM-005

Before operating this product

Please read the instruction manual carefully and keep it for future reference.

catalogue

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1. User Manual

Thank you for choosing our products and for your trust in us.

Our company has years of development experience in wheelchairs. During the product development phase, particular emphasis was placed on safety and ease of use.

This manual will assist you in understanding the operation, use, and maintenance of the wheelchair. As an essential component of the wheelchair, please handle it with care.

Your safety is of paramount importance to us. Therefore, before using the wheelchair, please carefully read this manual, as it plays a crucial role in ensuring your safe operation.

The product design and specifications listed in this manual may change with design modifications. Some illustrations and images in the manual may no longer correspond to the product you purchased. The company reserves the right to improve the product.

We sincerely hope our wheelchairs will enhance your daily life. We also welcome your valuable feedback regarding the quality of our products and after-sales services.

2. Precautions

2.1 Unboxing Inspection

Please verify that the chair and accessories are intact (refer to the included accessory list). If any damage or missing parts are found, contact the dealer or our company immediately.

- 1 wheelchair
- 1 set of backrest and seat cushion
- 1 charger
- 1 set of instruction manual

2.2 Symbol Explanation

Label name	description	remarks
 warn	If the system detects misuse, there may be casualties.	
pay  attention to	If used incorrectly, it may cause personal injury or damage to property.	
 force	Things that must be followed	
prohibit 	Indicates a prohibited action	
	Instruction Manual Reading Guide	
	Anti-pinch mark	
	Type B Application Section	
	Class II equipment	

2.3 Safety Guidelines

 Before use, please read this manual carefully and check all components for integrity to ensure your safety.

 warn :

 Never expose your wheelchair's electrical system to damp conditions (e.g., rain, snow, fog) or wash it, as this may damage the system. If exposed to moisture, ensure it dries completely and checks for

malfunctions before use. Avoid operating the wheelchair in adverse weather conditions such as rain, snow, fog, strong winds, temperatures below -10°C or above 40°C. Driving under these conditions may cause electrical system damage and result in control failures.

 Users are strictly prohibited from modifying wheelchairs without the consent of technical personnel. In the event of any accidents, our company shall not be held liable.

 Do not lean out while driving, as it may compromise stability, especially on slopes or uneven surfaces.

 Be careful when driving and stopping on a sloping road.

 Be extra careful with vehicles and pedestrians at night and on rainy days.

 pay attention to :

 For your safety and that of others, do not allow individuals who are unable to operate a wheelchair to use it; do not allow minors, persons with intellectual disabilities, pregnant women, or others who are not suitable for using an electric wheelchair to use it.

 Wheelchair is a means of transportation for persons with mobility impairments, patients, and the elderly or frail. According to traffic laws, no driver's license is required, but it is mandatory to comply with the same traffic regulations as pedestrians.

 Do not drive a wheelchair after drinking alcohol, or when you are tired or unconscious, to ensure safety;

 If you are taking medication, please consult your doctor to confirm whether the medication may adversely affect your ability to safely operate a wheelchair.

 Check the vehicle's condition: Are the brakes responsive? Are all systems functioning properly? Does the folding mechanism operate correctly? Is the battery level low?

 Before operating a wheelchair for the first time, familiarize yourself with all its functions. Practice maneuvers such as forward movement, acceleration, deceleration, stopping, backward movement, uphill travel, downhill travel, and turning in a quiet, well-paved, and safe area. Master these operations before taking them to the road.

 When using a wheelchair for the first time, if possible, please be accompanied by someone familiar with the wheelchair to ensure safety;

 Do not remove the anti-rolling wheels;

 This product is for single passenger use and cannot carry passengers.

 Wheelchair vehicles shall not be used as tools for transporting or towing goods;

 Avoid serpentine driving, high-speed sharp turns, and body side shifts to prevent rollovers.

 Be alert and slow down on rough or soft surfaces (e.g. grass), at bends, busy streets, shopping centres and parks and other crowded places.

-  Do not use mobile phones or other wireless communication devices while driving. The wheelchair must be parked in a safe location and the power must be turned off before use.
-  When going back, pay attention to the surrounding road conditions, crowd, and slow down;
-  When exiting the room or using the elevator, please move slowly and avoid using escalators.
-  When going uphill or downhill, stay alert, drive slowly and straight, and never force yourself to climb slopes beyond your limits.
-  Do not drive at high speed on a slope of more than 5 degrees;
-  Avoid forcing the vehicle over obstacles or steps exceeding 40mm in height, as this may prevent forward movement. In such cases, release the steering wheel immediately.
-  Avoid crossing ditches wider than 100mm, as this may prevent the vehicle from moving forward. In such cases, release the steering wheel immediately.
-  When driving through intersections, always follow traffic rules and never run red lights. At railway crossings, stop to observe and confirm safety before proceeding slowly at a right angle to the tracks to avoid falling into the rail grooves.
-  Do not intentionally switch on and off the wheelchair too frequently, and do not start or stop the wheelchair too often.
-  Do not lend a wheelchair to someone who has never used or is unfamiliar with it; do not let children operate the switches and levers;
-  Do not overload this vehicle, as its maximum load capacity is 150kg.
-  Do not disassemble the battery, motor, or controller without professional assistance. For replacements, purchase original factory parts from authorized dealers. Any modifications or use of non-original parts will void your warranty claim.

2.4 Scope of Application

as a means of transportation for persons with disabilities, patients and the elderly with mobility difficulties. It is limited to carrying 1 person with a user mass not exceeding 150 kg.

2.5 Contraindications

The use of this product is prohibited for minors, individuals with intellectual disabilities, and other individuals without legal capacity.

These restrictions may include:

- Patients with hemiplegia or paraplegia

- alleosis
- inpairment of vision

2.6 Electromagnetic Compatibility (EMI)

Electromagnetic wave sources (e.g., mobile phones) are prone to generating interference. The electronic components of wheelchairs themselves may also affect other electrical appliances.

To reduce the impact of electromagnetic interference sources, please read the following warnings:



Warning: Wheelchairs may interfere with the operation of devices emitting electromagnetic fields in their environment.



Warning: The driving performance of wheelchairs can be affected by electromagnetic fields (e.g. generators or high-power power supplies).



Warning: Do not use any portable TV or radio in direct environments when your wheelchair is in the on position.



Warning: Do not use a transceiver or mobile phone in the immediate vicinity of your wheelchair when it is in use.



Warning: Check the transmitter mast position to avoid wheelchair proximity.



Warning: If involuntary movement or braking occurs, turn off the wheelchair as soon as possible in a safe situation.

Interference electromagnetic fields may adversely affect the electronic systems of wheelchairs. These may include:

- Brake disengaged
- Uncontrollable behaviors in a wheelchair
- Unconscious turning movements

In the presence of very strong or persistent interference fields, electronic systems may even completely collapse or suffer permanent damage.

Potential sources of radiation include:

- Handheld transceiver unit (fixed antenna transceiver)
- Transmitter and receiver equipment
- Portable TV, radio and navigation devices
- Other personal delivery devices
- Mobile medium-range transmitting and receiving equipment (e.g., vehicle-mounted antennas)
- Fixed transmitting and receiving equipment

Fixed mobile transceiver

- Fixed radio, television, and navigation systems

To our knowledge, other household appliances such as CD players, laptops, cordless phones, AM/FM radios, electric shavers, and hair dryers will not affect them as long as their functions are intact and their cables are in good condition. Please follow the operating instructions for these electrical devices to ensure the safe operation of your wheelchair.

1. When operating an electric wheelchair, do not use handheld devices (dual-purpose devices) such as CB radios or turn on personal communication devices.
communication devices, such as mobile phones;
2. Keep an eye on nearby transmitters, such as radio or TV stations, and try to avoid getting too close to them;
3. In case of accidental movement or brake failure, the vehicle should be stopped immediately in a safe location.
4. Please note that adding attachments or components, or modifying the powertrain, may increase susceptibility to electromagnetic interference.

3. Product Description

3.1 Product Features

3.1.1 This product consists of a frame, wheels, a seat cushion, armrests, a lithium battery, a motor, and a controller.

The design is lightweight and compact, with the controller handle adjustable forward and backward for ergonomic comfort. It features a high-performance controller for flexible operation, and the detachable battery facilitates convenient charging.

3.1.2 This product has an IPX4 waterproof rating and is rated as Type B for partial electric shock protection.

3.1.3 This product features a simplified operation design for user convenience.

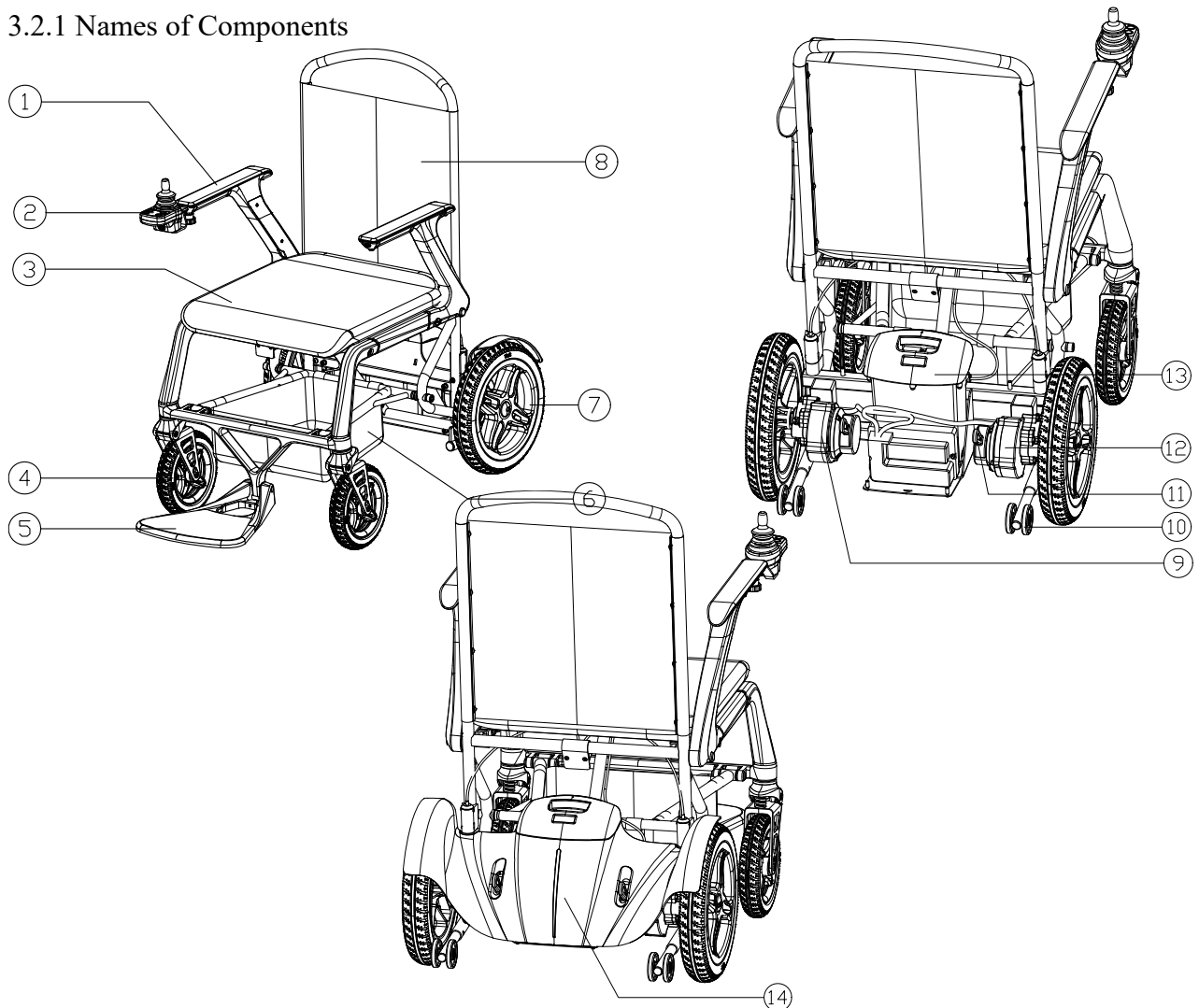
3.1.4 Ergonomically designed seats ensure optimal comfort for passengers.

3.1.5 This product is designed for use on flat roads both indoors and near buildings.

3.2 Main Structural Composition

Wheelchair consists of frame, wheel, seat, armrest, battery, motor and controller.

3.2.1 Names of Components



1. Armrest

5. Pedal

9. Left motor

13. Battery
2. Controller operation handle

6. Storage bag

10. Anti-tilt wheels

14. Rear vehicle shell
3. Seat

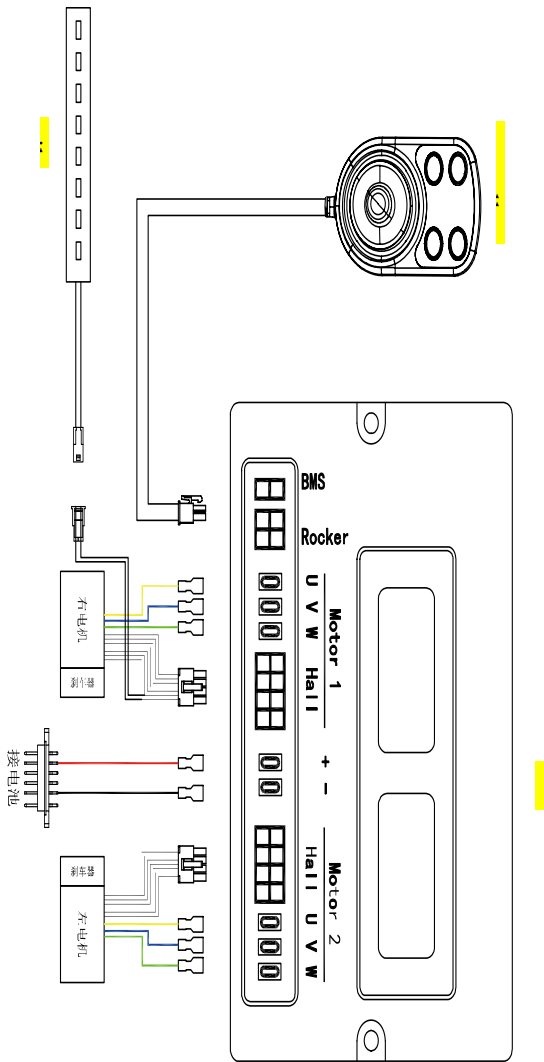
7. Rear wheels

11. Brake lever
4. Front wheels

8. Backrest

12. Right motor

3.3 Circuit Diagram



3.4 Technical Parameters

Model/Specification	MP208
Technical Model	MP208
frame	Hybrid aluminu and carbon fibre
Product weight (including battery) (kg)	25.4
Maximum load (kg)	150
Motor (rated output power)	170W brushless motor

cell	20Ah lithium battery
charger	24V 2A
front wheel	8-inch solid tire
back wheel	12-inch solid tire
handrail	Liftable
bracket	collapsible
stop a vehicle by applying the brake	solenoid brake
Seat, backrest cushion	a foam-rubber cushion
Dimensions of the electric wheelchair when unfolded (mm)	780×590×1065
Folding dimensions of electric wheelchair (mm)	425×590×960
Seat width (mm)	470
Seat depth (mm)	460
Seat height (mm)	515
handrail height (mm)	225
Backrest height (mm)	515
maximum speed	7 km/h
static stability	≤9°
dynamic stability	≤6°
braking performance of horizontal road surface	≤1.3 m
maximum safe slope braking	≤3.6 m (6°)
stagnation performance	12°
climbing capacity	8°
obstacle clearance height	≤40 mm
width of transverse groove	100 mm
least radius of gyration	≤890 mm
theoretical range	20km

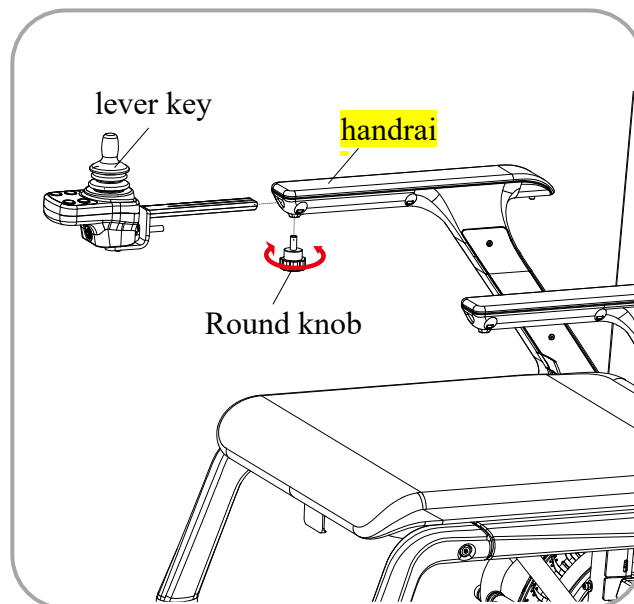
4. Installation and Commissioning

4.1 Controller Handle

Installation/Disassembly

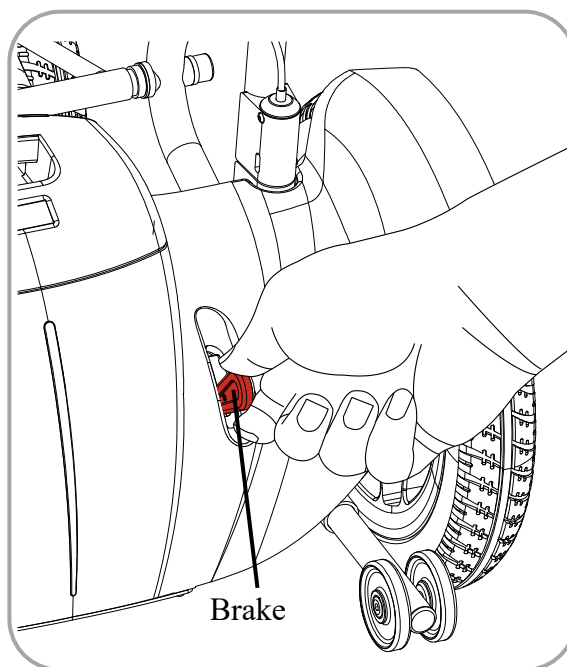
4.1.1 Insert the handle bracket into the armrest's mounting tube and tighten the round-head knob.

4.1.2 Loosen the round-head knob to remove the operating handle.



4.2 Brakes

Pull the handle to the  open position to release the wheelchair's brakes, allowing manual  pushing. Pull it back to the closed position to engage the brakes, preventing pushing.



warn :

The brakes must be in the  off position, i.e. the wheelchair must be in the brake position, before the wheelchair can be started.



The opening function should not  be used when going up or down the slope to ensure the safety of

users and wheelchairs.

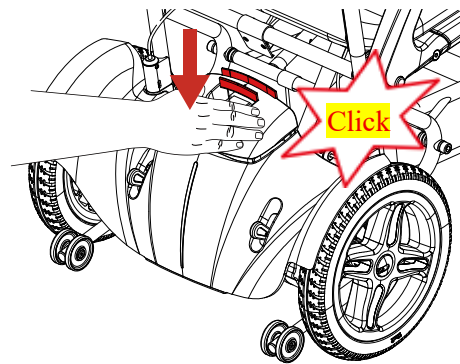
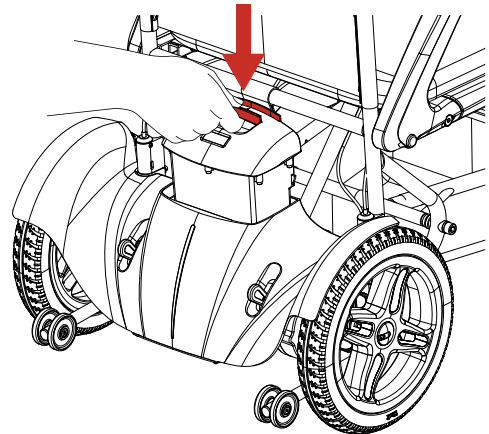


warn :

1. Before closing the brakes, turn off the power button on the controller. Do not sit on the seat while the brakes are engaged. Never open the brakes when the wheelchair is on a slope or any incline.
2. When the brake lever is released, the braking system is in the open position.
3. When the brake is activated, the wheelchair can only be propelled on level surfaces. After propulsion is completed, push the electromagnetic brake to the off position.

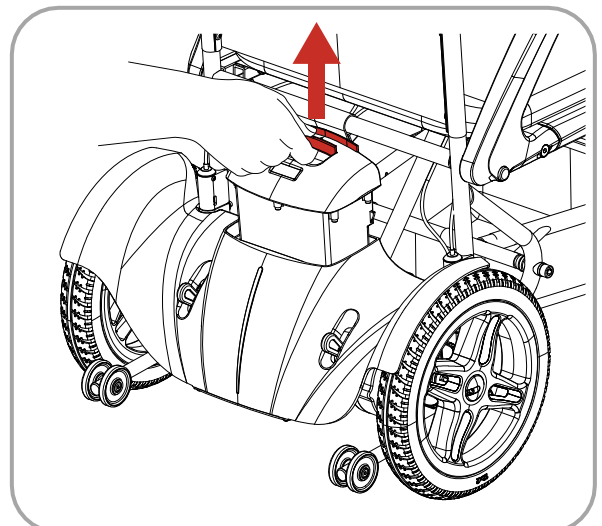
4.3 Installation, Removal, or Replacement of Battery Box

4.3.1 Installation: Place the battery box into the designated position and press down until a 'click' sound is heard, indicating it is securely fastened.



4.3.2 Disassembly or Replacement

To remove the battery, lift the handle upward.



☞ pay attention to :

- ① When inserting the battery box, ensure the switch is set to "OFF" (power off).
- ② Handle the battery with both hands during installation or removal to prevent accidental drops.

4.4 Anti-slip wheels and handrails

4.4.1 The wheelchair is equipped with anti-tilt wheels to prevent tipping in emergency situations. These anti-tilt wheels are non-removable.



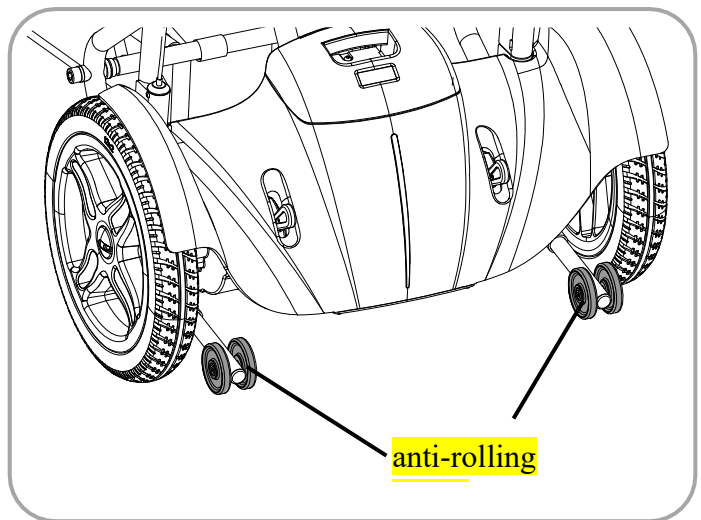
warn :

Do not drive a wheelchair after the anti-tilt wheel is removed or damaged.



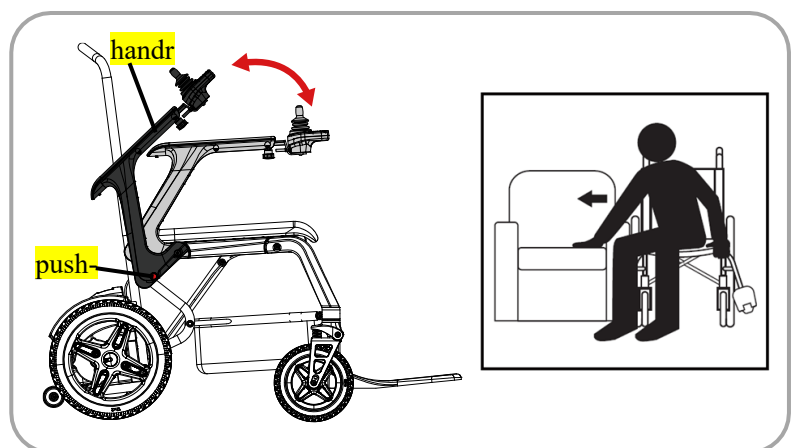
warn :

Anti-roll wheels are only suitable for hard surfaces. If the road is muddy, they may get stuck.



4.4.2 Armrest Flip

- ① Press the red button on the side.
- ② The armrest can be raised and lowered for easy wheelchair boarding and alighting.



4.5 Removal and Installation of Seat Belts

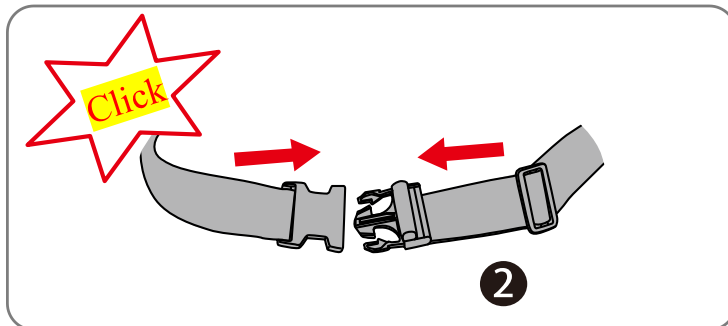
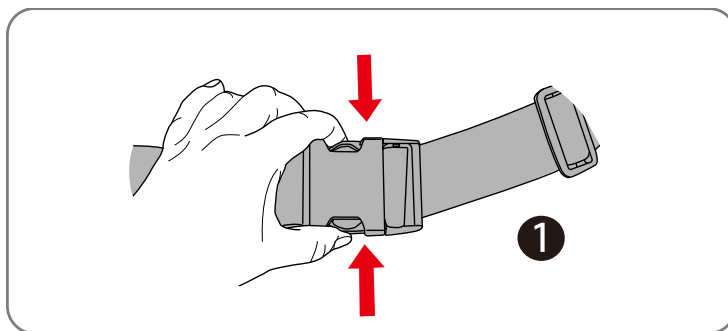
4.5.1 Press and hold the buckle on the seat belt, then press it together to release the seat belt.

4.5.2 Align one snap fastener with the other, press it down, and hear a click to confirm installation.



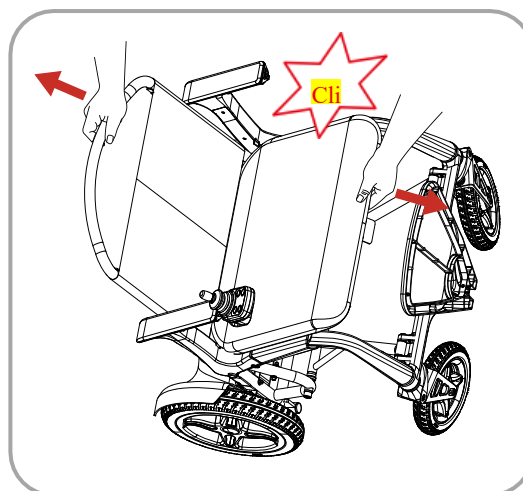
warn :

When sitting in a wheelchair, you need to fasten your seat belt.



4.6 Unfolding the wheelchair

4.6.1 Hold the backrest with one hand and the seat with the other, then pull outward simultaneously until you hear a click, indicating the wheelchair has fully opened.

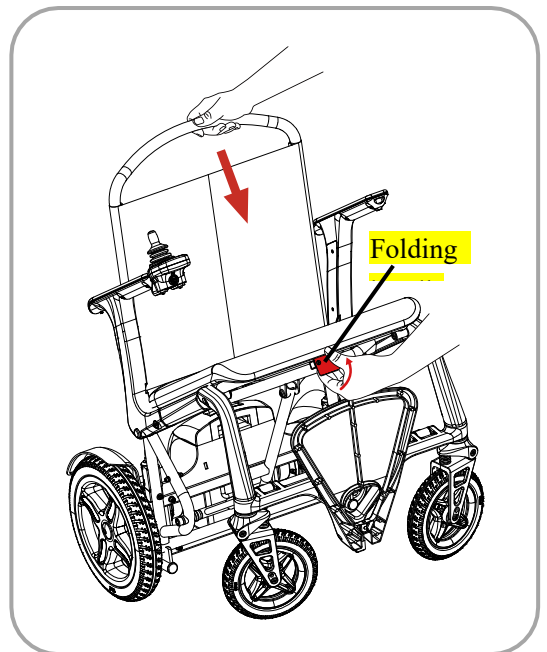


4.6.2 Hold the pedal and press it down to open.



4.7 Folding Wheelchair

4.7.1 Hold the backrest with one hand and grip the folding handle beneath the seat with the other, pulling outward while pressing the backrest downward until the wheelchair folds.



4.7.2 Hold the pedal and fold it upward.

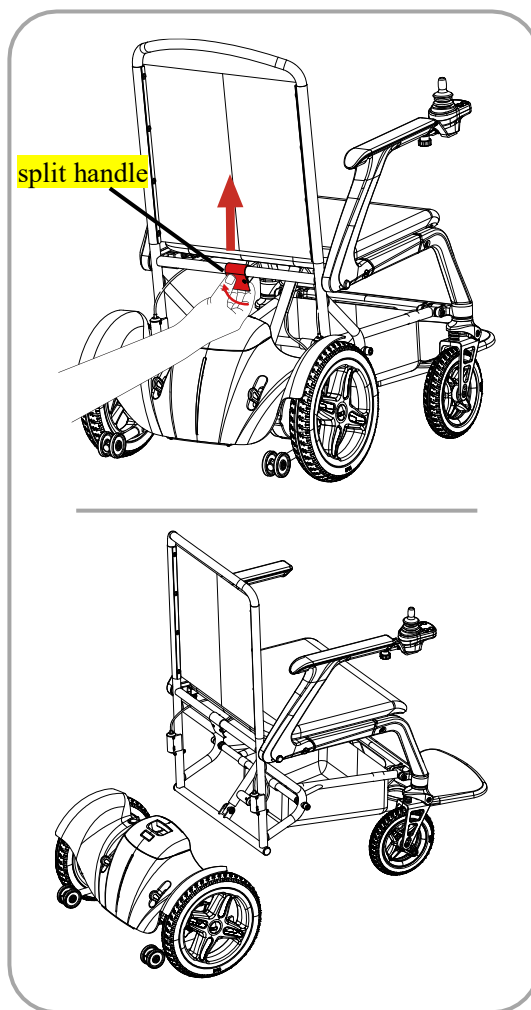


warn :

1. When opening or folding a wheelchair, ensure there are no obstacles around.
2. When opening or folding the wheelchair, be careful with your fingers and avoid placing them on the mechanical joints to prevent finger entrapment.
3. Do not use the wheelchair while it is not fully unfolded or folded.
4. Make sure the wheelchair is fully unfolded before sitting in or driving.

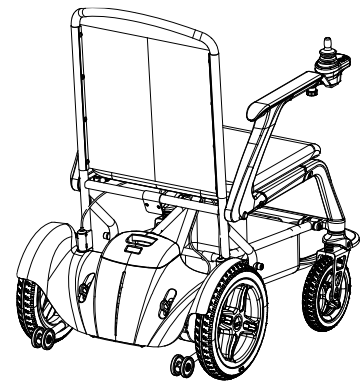
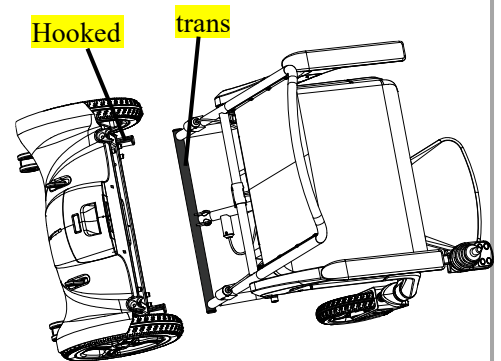
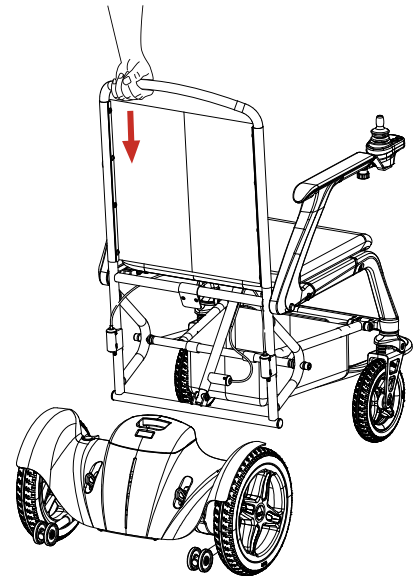
4.8 Wheelchair Split

4.8.1 Hold the rear handle of the wheelchair, pull it outward, then lift it upward to disassemble the wheelchair.



4.9 Wheelchair Assembly

4.9.1 Hold the backrest and slide the horizontal tube into the clip slots on both sides of the rear frame. Guide the round tube into the clip slot, then press the backrest down until you hear a click—assembly complete.



4.10 Installation and Removal of Cushions and Backrests

4.10.1 Installation of Backrest Pad

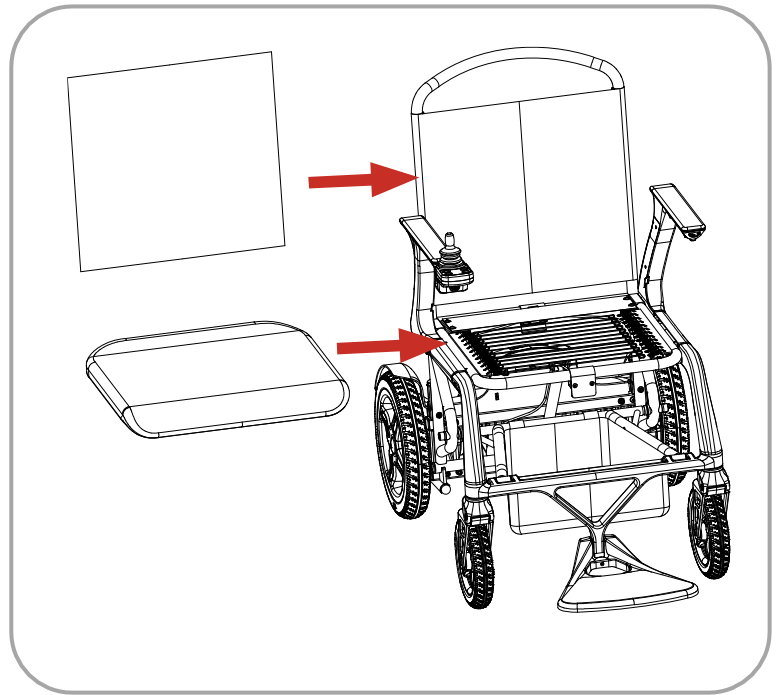
Align the backrest pad with the Velcro on the backrest and stick it in place.

4.10.2 Installation of Seat Cushion

Place the seat cushion flat on the seat, then flip the cushion tongue downward and attach it to the base of the cushion.

4.10.3 Disassembly

Unscrew the hook-and-loop fastener to remove.



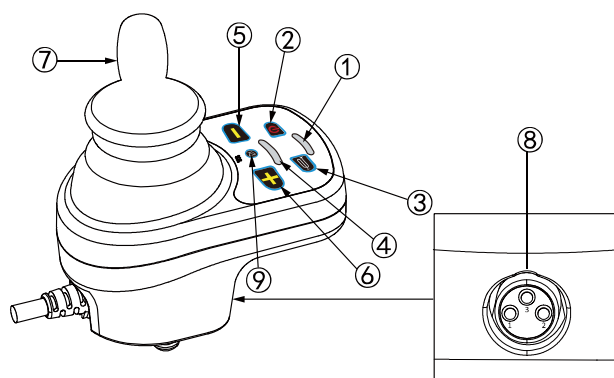
5. Operation Instructions

Before using your wheelchair for the first time, please read this chapter carefully and understand all precautions thoroughly to ensure safe, comfortable, and free wheelchair operation. This is very important for you. If you have any questions, please contact your nearest dealer.

5.1 Preoperative Considerations

Please read the "2.3 Safety Guidelines" carefully before proceeding.

5.2 Understand the operation interface



5.2.1 controller

① Power indicator light ⑤ Deceleration button ① Power indicator light ⑤ Deceleration button
② Power button ⑥ Acceleration button ② Power button ⑥ Acceleration button
③ Horn button ⑦ Control lever ③ Horn button ⑦ Control lever
④ Speed indicator light ⑧ Charging port ④ Speed indicator light ⑧ Charging port
Mute button

5.2.2 Controller Usage Instructions

① Battery indicator light: The light displays five levels (4 green and 1 red). When the green level (level 2) is off, it indicates optimal charging conditions that help prolong battery life. If only the red level (level 1) remains lit, this signals a battery warning state where using the wheelchair is prohibited. Continued operation would cause deep discharge, damaging the battery's lifespan. Note that the accuracy of this five-level display decreases with extended battery usage.

② Power button: Controls the vehicle's power supply. Press the switch button to turn the vehicle on, then

press it again to turn it off.

③ Horn button: When the vehicle is powered on, pressing this button activates the horn. Release the button to stop the horn.

④ Speed indicator light: Press the acceleration button to sequentially illuminate the light across 5 levels, increasing speed in 5 steps. Press the deceleration button to sequentially extinguish the light across 5 segments, decreasing speed in 5 steps.

⑤⑥ Acceleration/Deceleration buttons: Press the acceleration button to increase the speed indicator by 5 steps, and press the deceleration button to decrease it by 5 steps.

⑦ controller :

The direction of joystick movement controls the wheelchair's movement, while the joystick's travel distance determines the wheelchair's movement in that direction.

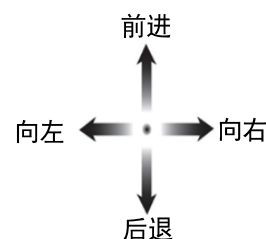
velocity .

a. Push the joystick forward to move the wheelchair forward;

b. Push the joystick forward to reverse the wheelchair;

c. Turn the joystick to the left: the wheelchair will turn left on the spot;

d. Turn the joystick to the right: The wheelchair will turn right on the spot.



⑧ Charging port: Located below the controller's handle for battery charging (see charging method for details).

⑨ Mute button: When the vehicle is powered on, pressing this button lets you toggle between voice announcements and mute mode.

 warn :

Do not turn off the power while driving, as this will cause sudden stopping and the risk of overturning.

5.3 Operation Instructions (Safety Guide)

5.3.1 First Operation

a. When seated in the wheelchair, press the power button and follow Section 5.2.2 of the controller manual to practice moving forward, backward, left, and right. Adjust the joystick's movement range to develop sensitivity to speed changes.

 Warning: Do not set the speed to maximum during the first operation.

b. Driving on the sidewalk

When driving on a sidewalk for the first time, avoid reaching the maximum speed and follow the traffic laws of your country.

c、 upslope

1. When driving uphill, lean your body slightly forward to maintain balance.

2. Always drive straight on the slope to prevent rolling over, ensuring all four wheels remain in contact with the incline.

3. When driving uphill, the battery level indicator may fluctuate. This is normal and there's no need to worry.



Warning: Do not reverse when going uphill.



Warning: Do not climb uphill in an S-shape.



Warning: Do not leave your wheelchair with the brakes on when going uphill.

d、 minus grade

1. When driving downhill, lean your body slightly backward to maintain balance.

2. Always drive straight on the slope to prevent rolling over, ensuring all four wheels remain in contact with the incline.

3. Avoid sharp turns on slopes, as gravity may cause your wheelchair to tilt sideways.

4. When going downhill, gravity will increase your speed, so adjust your speed accordingly.

5. Avoid driving at high speeds on slopes exceeding 5 degrees.



Warning: Control your downhill speed and descend as slowly as possible.



Warning: Do not leave your wheelchair with the brakes on when going uphill.

e. Overcoming obstacles

1. Do not drive over obstacles, steps, or roadside areas exceeding 40mm in height.

2. Avoid crossing ditches wider than 100mm; if crossing, maintain a vertical path over the ditch surface.

3. Always approach the curb from the front.



Warning: Risk of damage.

If necessary, perform a short acceleration to clear obstacles or curbs. This prevents you or your wheelchair from having to deal with excessive reactive forces.

f. Driving around a corner

When navigating corners and curves, steer the joystick in the desired direction. The front wheels will turn accordingly, guiding the wheelchair into a new path. This is crucial—make sure you have enough space to navigate through corners and bends. In narrow passages, take a wide turn to maintain a straight line when entering the tightest sections.



Warning: Risk of rollover – slow down before entering a curve or corner.



Warning: Risk of being pinched. Always keep a safe distance from corners and obstacles.



Warning: Do not enter curves or corners diagonally. This may cause your rear wheels to hit obstacles during sharp turns, leading to instability of your wheelchair.

5.3.2 Operating a Wheelchair

1. Ensure the brake is fully engaged;

2. Press the power button to activate the driving mode.
3. Check the battery level to confirm remaining power; if low, recharge promptly.
4. Adjust the speed control button to the desired speed;
5. Ensure the safety of the surrounding environment and road conditions;
6. Joystick control method: Slowly push forward or backward to control the wheelchair's movement, with the speed determined by the joystick's travel range.

6. Lithium Batteries and Charging Methods

Understanding lithium batteries and mastering their proper charging methods can help extend battery life and reduce accidents.

6.1 About Lithium Batteries

6.1.1 When the power indicator light is not green, charging at this time helps prolong the battery's lifespan. If the charger's indicator light turns green, it means charging is complete. Unplug the charger promptly.

6.1.2 If the power indicator light stays on yellow for 2 levels or remains inactive for an extended period, initiate charging. When the charger's indicator light turns green, it signifies completion of charging. Immediately unplug the charger.

6.1.3 Lithium batteries must not be exposed to fire, water, overheating (45°C), violent vibrations, impacts, or short circuits between positive and negative terminals.

6.1.4 Avoid prolonged charging of lithium batteries; the recommended charging duration should not exceed 20 hours.

6.1.5 When disposing of used lithium batteries, do not discard them carelessly. Please contact the distributor or our company for proper disposal.

6.2 About Electricity

6.2.1 After use, carefully check the 5-level battery indicator to determine if charging is needed.

6.2.2 How to Charge.

6.3 First Charge Method

When using the device for the first time, do not charge it immediately. Run it until the power indicator light on the controller handle turns yellow, then charge it. When the charger's indicator light turns green, charging is complete. Unplug the charger promptly.

6.4 Normal Charging Method

1. Turn off the power switch on the vehicle.
2. Plug the charger's microphone connector into the controller's charging port to charge.

6.5 Charging Methods

1. The wheelchair is equipped with a controller handle, charging port, and battery charging port.
2. Charge the device through the charging port on the controller's handle. (Method 1)

The battery compartment can also be removed for charging. (Charging Method 2)

3. Plug the charger into the home power outlet.
4. When charging begins, the charger's red indicator light illuminates. The charging duration varies depending on the battery's condition and temperature, typically lasting 8 to 10 hours. Upon completion, the charger automatically stops and the light turns green.
5. When the charging indicator light turns green, it means charging is complete. First, unplug the charger's power cord, then remove the microphone connector from the charging socket.

 Note: When the charging indicator turns green, wait about 2 hours longer before charging, which helps prolong the battery's lifespan.

 Note: To prevent accidents caused by abnormal charging, please follow the following rules.

 Note: Use this vehicle-specific charger and ensure full charging. Using non-specific chargers may cause charging failure or damage to the lithium battery.

 Note: Do not disassemble or modify the charger.

 Note: Charge in a place where sunlight does not directly reach and where there is good ventilation.

 Note: To check if the lithium battery is fully charged, check the charger's indicator light. A red light means charging, while a green light indicates full charge. The 5-level battery indicator does not confirm full charge; always refer to the green light on the charger.

 Note: For safety, keep away from ignition sources during charging and avoid smoking nearby.

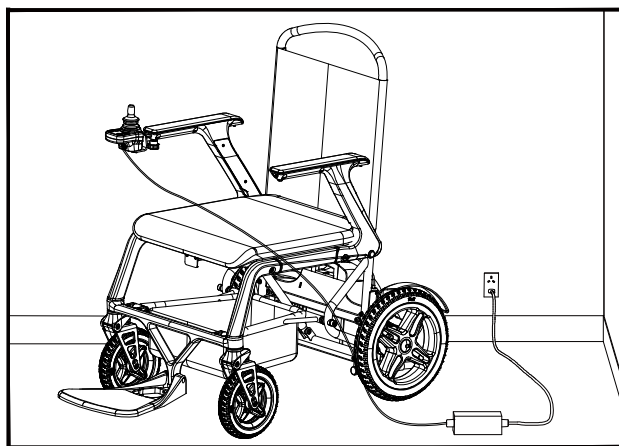
 Note: Do not charge with wet hands or wet connectors.

 Note: Avoid charging in rain, dew, or direct sunlight, and choose a well-ventilated area.

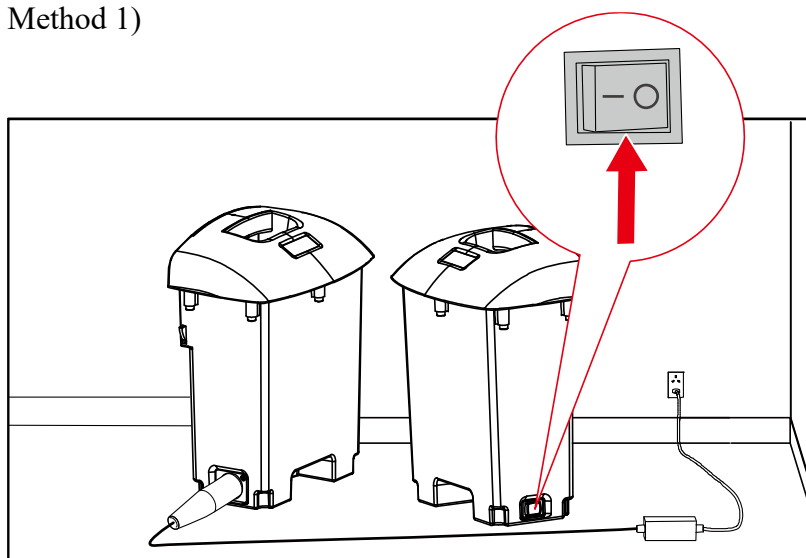
6.6 Precautions for Lithium Batteries

1. Do not charge a lithium battery again when it is fully charged.
2. Lithium batteries should not be deeply discharged; the recommended depth is 30% to 50%, and should not exceed 80%.
3. If not used frequently, avoid frequent charging: Charge every other month.
4. Lithium batteries should be recharged promptly after use, and must not be stored when depleted.

5. Lithium batteries must not be exposed to fire, water, overheating (45°C), violent shaking, impact, or short-circuiting between positive and negative terminals.
6. Avoid prolonged charging of lithium batteries; the recommended charging time should not exceed 20 hours.
7. When disposing of used lithium batteries, do not discard them carelessly. Please contact the dealer or our company for proper disposal.



(Charging Method 1)



(Charging Method 2)

remarks :

- ① The switch on the battery compartment must be set to 'ON' during charging, meaning the power supply must be activated before charging.
- ② When charging, the battery will charge to whichever side the switch is turned to (see Section 4.4 Battery Switch).

6.7 About the Charger

6.3.1 Charger

Charger specifications: OH-24V2000MA

Charger input specifications: 100~240VAC, 50/60Hz, 1.2~0.5A

Charger output specifications: 24V,2A MAX (1.8A)

The charger indicator light has two states:

1. Red: Power on, charging in progress;
2. Green: The battery is fully charged.

 pay attention to :

Electric wheelchairs must have a safe circuit to prevent movement during charging. If the vehicle fails to operate normally after charging, check whether the battery charger is disconnected from the charging terminal. The charger must be stored in a dry environment with temperatures between -10°C and 40°C and should not be subjected to mechanical damage. Under no circumstances should the charger be repaired by unauthorized dealers.

 pay attention to :

1. You must use our company's original charger. Using other chargers may affect product warranty eligibility. Using unauthorized chargers could cause severe damage to the battery or wheelchair. Incorrect chargers may even pose fire hazards.
2. The charger must operate solely at mains frequency voltage; using higher voltage is strictly prohibited.
3. The charger must not be used under conditions of high temperature or high humidity.
4. The charger is equipped with multiple automatic protection functions, eliminating the need for dedicated supervision during charging. When the battery is fully charged, the charger automatically stops charging, and there is no requirement for manual connection or disconnection. However, the charger is not permitted to be connected to an electric wheelchair for extended periods, typically not exceeding 20 hours.
5. If the charger overheats (exceeding 70°C) with sparking or smoking, immediately disconnect the power supply.

7. Maintenance and Care

7.1 Cleaning

7.1.1 The seat cushion and backrest cover can be removed for cleaning with water and a neutral detergent once a week.

7.1.2 Other painted areas should be wiped with a clean or disinfectant cloth once a week.

7.2 Disinfection

7.2.1 Disinfection of seat covers, backrest covers, and armrests can be performed by wiping with clean or disinfectant cloths dipped in 75% medical alcohol, followed by immediate drying, once weekly.

 pay attention to :

- a) Do not use a high-pressure cleaner to clean this product. Avoid splashing water on the vehicle.
- b) High-concentration alcohol, ether, high-concentration acids, or volatile chemical solvents such as chlorinated hydrocarbons, banana oil, gasoline, and kerosene, as well as abrasives like wax, sponges, and brushes containing abrasive agents, must not be used.
- c) Always turn off the power supply when cleaning, disinfecting, maintaining, or servicing.
- d) All components must be thoroughly dried before use after cleaning and disinfection.

7.3 Inspection, Service, and Maintenance

7.3.1 Daily inspection:

- 1. Check whether the operating joystick is deformed or damaged.
- 2. Press the switch button and check if charging is needed.
- 3. Check the brakes before driving to ensure they are working properly.

7.3.2 Weekly inspections:

- 1. Check that the controller is powered off before proceeding.
- 2. Check if the rubber sleeve at the bottom of the joystick shaft is detached or damaged.

This inspection requires only visual examination without direct contact with the sheath.

- 3. Wipe the entire vehicle with a soft, damp cloth after wringing it out, taking care not to wet the electrical system.

4. Test the joystick operation. After releasing the joystick, verify that it returns to the center position.

7.3.3 Monthly inspections:

1. Check the battery condition. If necessary, wipe the battery terminals.
2. Inspect the electrical system to ensure all connectors maintain proper contact.
3. Check if any fasteners are loose.
4. Check for any wobbling, cracks, or wear on the front and rear tires.
5. Check the joystick. When released, ensure it returns to the center position.

If you encounter any issues during the process, contact your dealer.

7.3.4 Annual inspections:

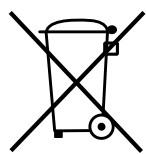
Please take your electric wheelchair to the dealer for a thorough inspection by a technician.

7.4 Reuse

7.4.1 After prolonged disuse, if the wheelchair needs to be reused, clean, disinfect, and maintain it as described in Sections 7.2 and 7.3.

7.4.2 Inspection of motors, batteries, and chargers;

7.5 Waste Disposal



The symbol indicates that your product must be disposed of separately from household waste in accordance with local laws and regulations. When the product reaches its end-of-life, take it to designated recycling points authorized by local authorities. Proper sorting and recycling

during disposal will help conserve natural resources and ensure environmentally responsible recycling. For recycling specific components, please follow local laws and regulations and have them processed by certified recycling facilities. Plastic parts, vehicle frames, and pipe components can be handed over to specialized recycling units after reaching their service life.

8. Common Faults and Solutions

8.1 Troubleshooting Controller

SYB-JCM40 Self-Diagnosis

The controller contains the program code for identifying and troubleshooting. When the diagnostic program detects issues or errors, the buzzer on the controller will sound an alarm. The fault display buzzer will keep sounding until the fault is resolved.

You can try the following methods to resolve the issue. If the problem persists, contact us or our agents.

Beebeep count	Fault content	debugging
1	undervoltage	The battery is low. Charge it. If the battery is fully charged but still shows a low voltage, the alarm controller is faulty.
2	Left motor phase loss	Check whether the left motor wiring harness is intact and the connectors are securely plugged. If the issue persists, swap the left and right motor connectors. If the system triggers a four-tone alarm indicating a phase loss in the right motor, this indicates a fault in the left motor. If the system still triggers a two-tone alarm for a phase loss in the left motor, the controller is faulty.
3	Left brake	Check whether the left motor handle is set to electric mode, verify the integrity of the wiring harness, and ensure the connectors are securely plugged. If the issue persists, swap the left and right motor connectors. If the system emits five audible alarms indicating a right brake fault, it suggests an abnormality in the left motor brake. If the system still emits three audible alarms indicating a left brake wire break, the controller is likely faulty.
4	Phase loss in the right motor	Check whether the right motor harness is intact and the connectors are securely plugged. If the issue persists, swap the left and right motors. If the system triggers a two-tone alarm for left motor phase loss, it indicates a fault in the right motor. If the system still triggers a four-tone alarm for right motor phase loss, the controller is faulty.
5	Right brake	Check if the right motor handle is set to electric mode, verify the wiring harness integrity, and ensure all connectors are securely fastened. Swap the left and right motors. If the left brake triggers an alarm with three sounds, it indicates a malfunction in the right motor brake. If the right brake still emits five sounds due to a disconnected wire, the controller is likely faulty.
6	overcurrent	When overcurrent occurs in either the left or right motor, the corresponding overcurrent indicator light will illuminate (the lower level for the left motor and the higher level for the right). After power-off, manually test the motor's movement. If resistance is detected during operation, disconnect the controller from the motor. Persistent resistance indicates a motor short circuit. If the motor moves freely, the issue lies with the controller.
7	control crank	Release the control lever to allow it to reset automatically, which will resolve the issue.
8	controller	Contact after-sales service

9	Left encoder fault	Check the integrity of the left motor wiring harness and ensure all connectors are securely fastened. If the issue persists, swap the left and right motors. If the system triggers a 10-tone alarm indicating right motor encoder failure, this indicates a fault in the left motor. If the 9-tone alarm for left motor encoder failure persists, the controller is likely faulty.
10	right encoder fault	Check the integrity of the right motor wiring harness and ensure all connectors are securely fastened. If the issue persists, swap the left and right motors. If the system triggers a 9-tone alarm indicating a left motor encoder fault, this confirms a right motor issue. Should the 10-tone alarm persist, the problem likely lies with the controller.
11	overload	Turn off the power and restart the device. Ensure the motor is not jammed by foreign objects or terrain.
12	overvoltage	Turn off the power and disconnect the battery cable. Reconnect it. If the fault persists, contact the maintenance team to replace the controller or battery.
13	superheat	Power off and leave it for a while. Then restart the device to check for faults. If the fault persists, contact the maintenance team to replace the controller.
14	CAN communication failure	Check if the connection cable to the lower control unit is properly inserted.

9. Warranty

To protect your interests and ensure quality after-sales service, please read this chapter carefully.

9.1 Guarantee Content, Recipients, and Duration

9.1.1 Guaranteed Content:

Purchase from the designated dealer or our company, operate and use in accordance with this manual, and have repairs performed at the designated service center during the warranty period. For product quality issues caused by materials or manufacturing defects, the company guarantees repair or replacement of different parts.

9.1.2 Scope and Duration of the Guarantee

From the date of purchase:

- ① Main frame, 2 years warranty.
- ② Controller, with 1 year warranty.
- ③ Gearbox + Brake, 1-year warranty.
- ④ Other electrical components are covered by a one-year warranty.
- ⑤ Consumables (e.g., tires, handle covers, seats, backrest cushions, etc.) are not covered by the warranty.

Under normal circumstances, the consumer bears the loss.

9.2 The following circumstances shall not be deemed as valid guarantees for quality issues

- ① Caused by non-compliance with the operating instructions or other human factors;
- ② Not repaired at the company-designated service center;
- ③ Exceeding the warranty period;
- ④ Do not use components manufactured by our company;
- ⑤ Exceeding the maximum load capacity (10kg);
- ⑥ Caused by force majeure such as typhoon, flood, fire, earthquake, war, etc.

9.3 Maintenance Records

maintenance record			
date	question	cause	remarks

name of user :	
Address: Contact number:	Address: Contact number:
Product name: Barcode:	Product name: Barcode:
date of purchase :	
Warranty period: (except for wear parts), other details are specified in the instructions	

10. Transportation and Storage

If you encounter any issues during use, please contact your dealer.

Annual inspection: Visit the dealer and have a technician conduct a thorough and comprehensive check on your wheelchair.

ambient condition

10.1 Transportation and Storage

- a) Ambient temperature range: -25°C to 50°C
- b) Relative humidity: $\leq 80\%$
- c) Atmospheric pressure range: 86kPa to 106kPa
- d) It can be transported using conventional transportation methods.

10.2 During operation

- a) Ambient temperature range: -5°C to 40°C
- b) Relative humidity: $\leq 85\%$
- c) Atmospheric pressure range: 86kPa to 106kPa