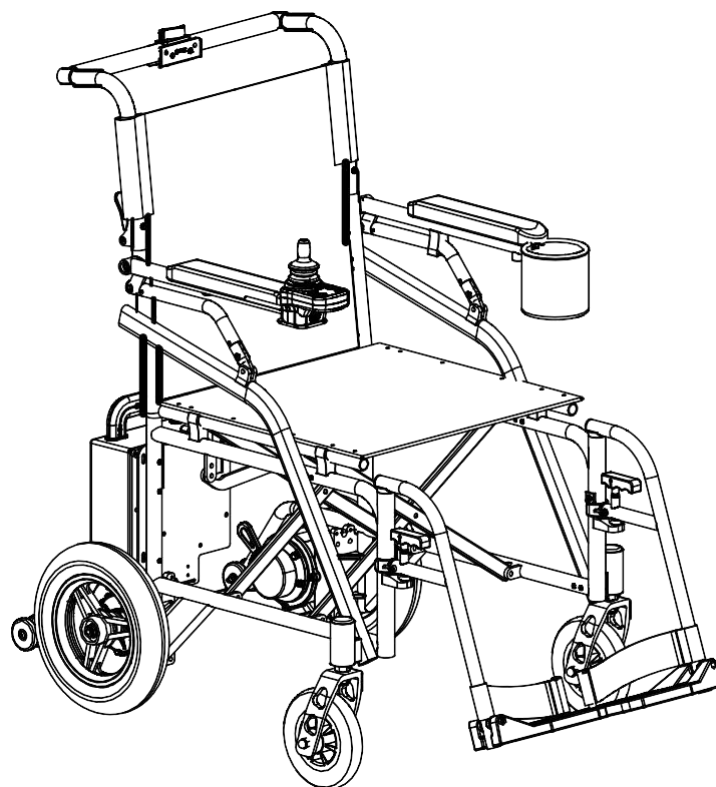


# Electric Wheelchair



Medical device manufacturer license: Su Food and Drug Supervision Equipment Production Xu No.20160046

Medical device registration number: Su Machine registration license 20162190134

Product technical requirement No: Su Machinery Note 20162190134

Instructions Date of preparation: 2022-9-11

Version: V.02

Registered model: Type DYN36C

Product model: HP15

Production date / duration of use: see the nameplate

## User manual

Before operating electric wheelchair,  
Please read the user operating manual and keep it for future reference.

# Letter to users

Welcome to buy our electric wheelchair

Your safety is important to us, so before you use the electric wheelchair, please read this Instructions carefully, which play an important role in your safe operation. We hope that the electric wheelchair can bring greater convenience to your life. At the same time, we look forward to you to give us electric wheelchair quality and after-sales service for their valuable suggestions, you can give us feedback by a email or a call.

Please keep the following information safe:

.....  
Product production information:  
(Stick barcode)

# Catalogue

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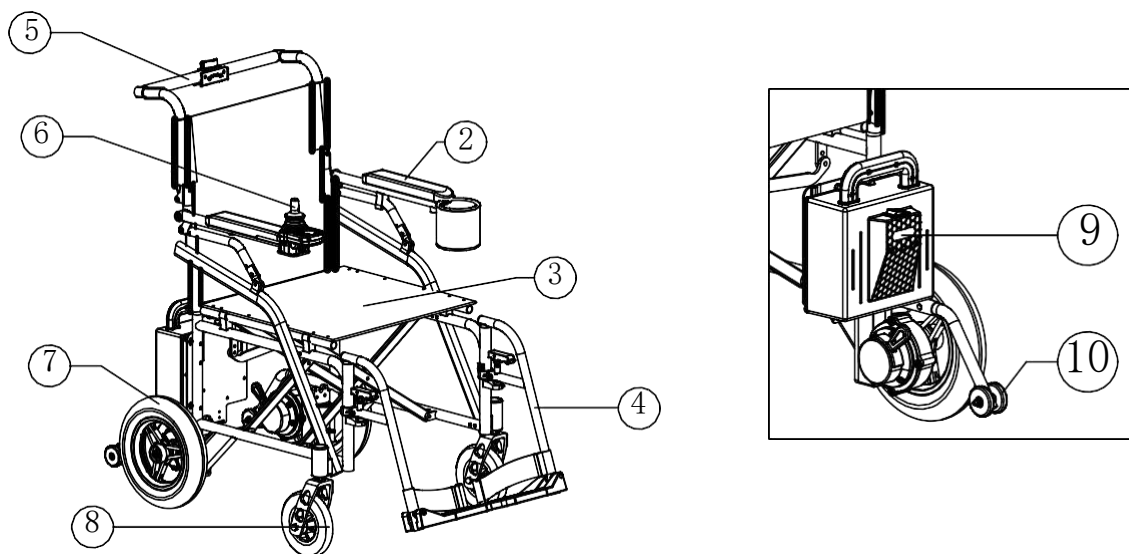
# 1. Product performance:

## 1.1 Vehicle parameters

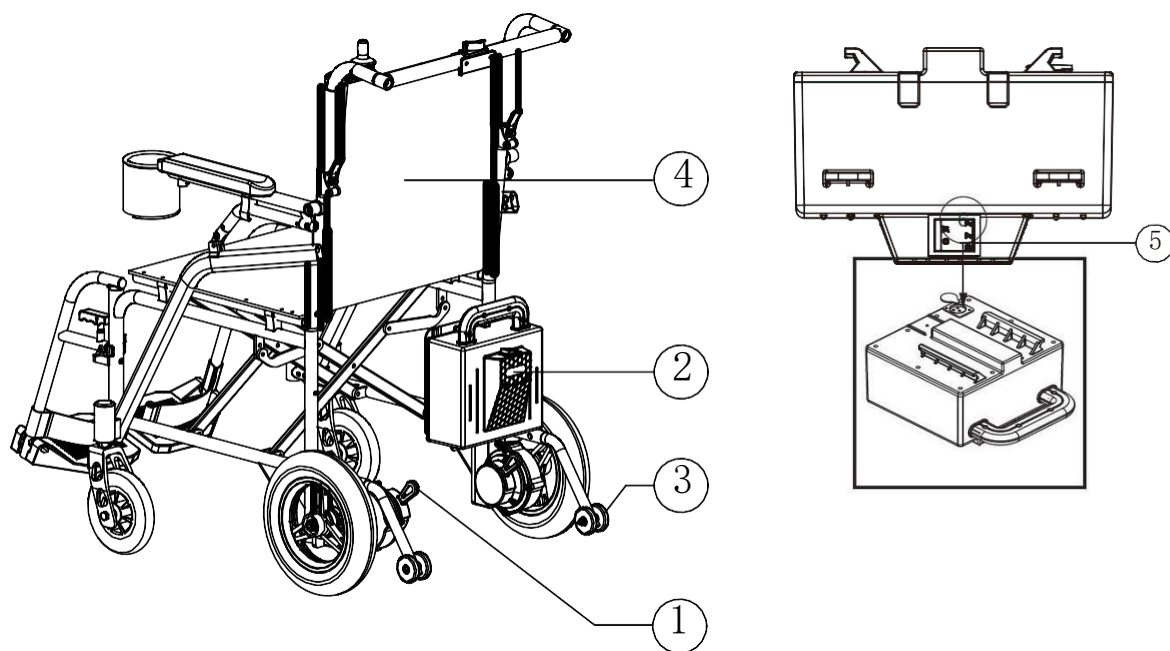
Registered model	DYN36C		
Product model	P15		
Dimensions (length x width x height)	1030x530x940mm		
Fold size (length x width x height)	700x340x730mm		
Maximum passenger weight (kg)	≅ 100kg		
Vehicle weight (excluding battery)	14.7kg		
Input power (VA)	≅ 240		
maximum speed	≤4.5km/h		
Horizontal road braking	≤1.0m		
Maximum safety slope braking	≤1.6m (3°)		
Pope performance	6°		
Static stability	≥6°		
Dynamic stability	≥3°		
The higher the barrier	≥25mm		
The width of the ditch	100mm		
Climbing capacity	≥3°		
Least radius of gyration	1200mm		
Theoretical driving distance	≥10km		
Driving motor	Rare earth motor 2*24Vdc*150W		
Brake system	Intelligent brake system (control joystick control)		
Tyre	Drive wheel 2 * 10 " aluminum alloy hub PU tire		
	Front wheel 2 * 7 " plastic hub PU tire		
Battery / charger configuration	24V 20Ah Lithium battery	driving distance≥15km	Lithium battery charger: 24VDC 2A
	24V 10Ah Lithium battery	driving distance≥10km	Lithium battery charger: 24VDC 2A
	24V 6Ah Lithium battery	driving distance≥6km	Lithium battery charger: 24VDC 2A
Seat	Comfort sponge woven fabric seat		
Ground clearance	70mm		

## 2. Main Structural Composition:

The electric wheelchair vehicle consists of frame, wheels, seat, handrails, battery, motors, and controller.

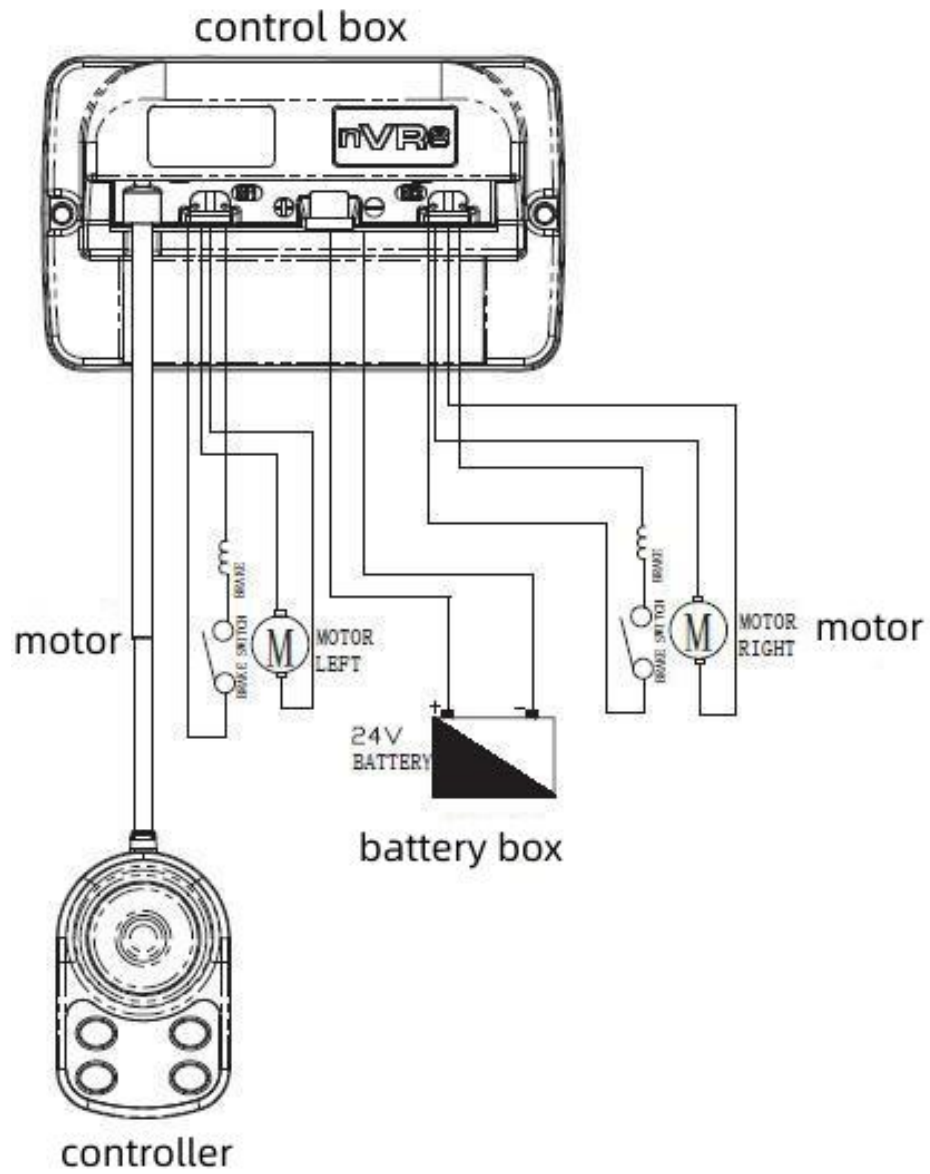


1. Backrest 2. Armrest 3. seat cushion 4. Foot rest 5. Push the handle bar 6. Controller  
7. Rear wheel 8. Front wheel 9. Battery case 10. Anti-tilt wheel



1. Brake handle 2. Battery box 3. Anti-roll wheel 4. Backrest storage bag 5. switch  
6. Charging port

Circuit diagram of the vehicle



Electric wheel chair circuit diagram

### 3. Scope of Application:

To help the disabled and the elderly move within a certain distance (not on the road).

### 4. Contraindications:

Minors or pregnant women are prohibited to use it.

### 5. Notes:

1. The object of the product: the disabled with mobility difficulties and the elderly and infirm.

2. For the safety of you and others, please do not let people who cannot operate electric wheelchairs; do not give electric wheelchairs to minors, mentally disabled, pregnant women or other people who should not use electric wheelchairs.

Before you first use a wheelchair, please read this chapter carefully and deeply understand the precautions to drive it safely, comfortably and freely, which is very important to you. If you have any questions, please contact your nearest dealer

1. Driving a wheelchair car

1.1 The driver get in and sit down.

1.2 Turn on the switch button. After 1 second, the five-section LED light bright or flashing slowly.

1.3 Slowly push the lever forward with your hand until you hear the sound of the electromagnetic brake, and the wheelchair should be able to move forward, similarly, pull or push it back / to the left / right, and the vehicle will move back and turn left and right.

1.4 Adjust the speed and slow gear according to the road conditions, surrounding conditions and personal preferences. Speed / operation mode button can adjust the driving speed.

1.5 When you want to stop, you just need to release the control joystick to restore it to the median. You can hear the sound of the electromagnetic brake action in a short time, and you can stop smoothly.

1.6 When backward, pay attention to the surrounding conditions. Pull the control lever slowly back with your hand, and the wheelchair will step back and make a beep.

2. Notes before operation:

2.1 For the safety of you and others, please do not let people who cannot operate electric wheelchairs; do not give electric wheelchairs to minors, mentally disabled, pregnant women or other people who should not use electric wheelchairs.

2.2 Be familiar with the local traffic regulations.

2.3 Electric wheelchairs are non-motor vehicles and are specially used for the elderly and physically disabled. Under traffic laws, a license is not required, but the same traffic regulations as pedestrians. Please drive on sidewalks or non-motorized lanes.

2.3.1 Be familiar with the traffic sign signals used for pedestrians.

2.3.2 Don't suddenly turn and cross the road.

3. Practice and practice the operation.

Before you first operate an electric wheelchair, please get familiar with the functions of the wheelchair. Practice forward, acceleration, deceleration, stop, retreat, uphill, uphill, downhill, turning and other operations, master the operation before going on the road.

4. On the road for the first time, if possible, please accompany you with someone familiar with the wheelchair to ensure safety.

5. Don't drink or fatigue or drive a wheelchair to be safety.

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6. Please confirm that the operator is free of mental illness and other diseases that may occur suddenly during driving, and that the operator is incompetent and unable to use the wheelchair vehicle safely.
7. If you are taking medication, check with your doctor whether the medication will adversely affect your safe operation of your wheelchair.
8. Check whether the car is in good condition, such as whether the brake is sensitive, whether the performance is normal, whether it is in place after folding and opening, and whether the power is in a state of power loss.
9. Do not remove the anti-dumping wheels.
10. Do not modify the wheelchair car without the authorization of the company.

**Warn:**

1. Do not always expose your wheelchair electrical system to a humid environment (such as rain, snow, fog, etc.), do not wash the wheelchair, this will damage the electrical system. If it is wet, please confirm that no fault is in use after drying.
2. Do not drive a wheelchair in bad weather conditions, such as rain, snow, fog, strong winds, temperatures below-20°C or above 40°C. Driving a wheelchair under such conditions can damage the electrical system and cause failure of control.
3. Do not drive in the desert, sand, muddy, water, ice, or smooth, saline roads, so as not to affect the performance of the wheelchair, cause accidents and personal injury.

3. During Operation Time:

- 3.1 Wheelchair is single and shall not be passengers.
- 3.2 Wheelchairs shall not be used for handling or towing cargo tools.
- 3.3 The operator should sit on the chair and hold the operation bar by hand.
- 3.4 Do not drive like a snake, do not turn at high speed, do not move sideways, so as not to roll over.
- 3.5 Keep high attention and slow down on uneven or soft roads (such as grass), turns, busy streets, shopping malls, and parks.
- 3.6 Do not use mobile phones and other wireless communication devices while driving. Park the wheelchair in a safe place and turn off the power supply before use.
- 3.7 When retreating, please pay attention to the surrounding road conditions, crowds, and slow speed.
- 3.8 When leaving the door or the elevator, please slow and walk slowly. Do not use the escalator up and down.
- 3.9 When going up and down, please keep a high degree of attention, go straight at a low speed, and do not force the slope beyond the slope limit.
- 3.10 Do not drive on a slope above 5 degrees.
- 3.11 Do not force across the obstacles or steps above 4CM, otherwise it may make the car unable to advance, so release the control lever immediately.
- 3.12 Do not cross a ditch more than 10cm wide, and drive the operating bar vertically.
- 3.13 When driving through the intersection, please obey the traffic rules and do not run a red light: when crossing the railway intersection, stop and observe first, and then slowly walk through at a right angle with the track, so as not to fall into the track ditch.
- 3.14 Do not intentionally switch frequently, or start or stop the wheelchair frequently.
- 3.15 Do not lend the wheelchair to those who have never used or are unfamiliar with the wheelchair; do not let the child dial the door lock and the lever.
- 3.16 Do not overload the use, the maximum load of the vehicle is 100kg.
- 3.17 Waste disposal





The symbol above means that your products should be treated separately from household waste under local laws and regulations. When this kind of production. When the product reaches its life span, take it to the designated recycling point of the local authorities. Categorical collection and recycling when handling products will help conserve natural resources and ensure that it is recycled in an environmentally friendly manner.

The recycling of electrical parts should be handled by the designated approved recycling agency according to the local laws and regulations. The plastic parts, frame and pipe parts can be handled by a professional recycling unit after the life period is reached.

Follow the above recommendations while ensuring that you are the legitimate owner of the disposed product.

### 3.18 Cleaning and disinfection

#### 1. Cleaning:

a) The seat and backrest cover can be cleaned with water and neutral detergent once a week;

b) Wipe other coating parts with dry and soft cloth once a week.

#### 2. Disinfection:

Armrests and chairs should use high-efficiency disinfectant, sprinkle and wipe, immediately dry, once a week.

#### 3 Note:

a) Do not use a high pressure cleaner. Do not splash the water into the car.

b) Do not use high concentration of alcohol, ether, high concentration of acid or Chlorinated hydrocarbon banana water, gasoline, kerosene and other volatile chemical solvents and wax, sponges, brushes containing abrasive agent.

c) Make sure the power off when cleaning, disinfection, maintenance and maintenance.

d) All parts must be thoroughly dry before cleaning, disinfection and use.

#### 4. Tire:

This car is equipped with solid PU tires, so it does not need to be inflated.

#### **warn:**

In operation, when the wheelchair car still cannot stop moving after releasing the control lever back to the median, please close it immediately and contact the nearest dealer.

#### 5. After the operation

5.1 After parking, please close when no one stops.

5.2 If you do not use the wheelchair for more than 48 hours continuously, please cut off the battery connection (note: you can unplug the power socket to cut off the battery connection).

#### 6. Instructions on electromagnetic compatibility (EMC)

Your electric wheelchair has been tested for electromagnetic compatibility in strict accordance with GB / T18029-21 standards. Here we will point out that the electromagnetic wave emission will interfere with the electronic devices of the electric wheelchair, and similarly, the electronic devices may also interfere with other electrical appliances.

To minimize the impact of electromagnetic interference, read the following warnings carefully:

Warning: The electric wheelchair may interfere with other equipment within the magnetic field it emits.

Warning: Electric wheelchairs may be disturbed by other electromagnetic fields (such as generators or high-power appliances), thus affecting the driving performance.

Warning: Avoid using a portable TV or radio as long as your electric wheelchair is in operation.

Warning: Avoid using an intercom or similar devices as long as your electric wheelchair is in operation.

Warning: Check the interference range of the wireless transmitter, and please do not use an electric wheelchair within the interference range.

Warning: If the wheelchair moves or stops independently, turn off the power immediately for safety.

The electromagnetic field interference may adversely affect the operating system of the electric wheelchair, including:

- Failure of the electromagnetic brake
- Uncontrolled behavior of electric wheelchairs
- Actions that are not actively manipulated by the user.

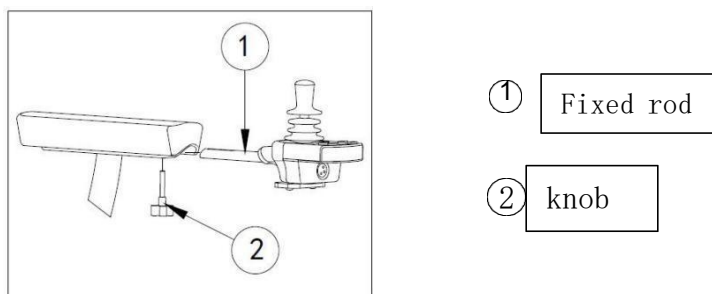
## 7. Other matters

When moving your wheelchair to other vehicles, make sure the battery is fixed and reliable.

## 6. Installation and Use Instructions:

### 6.1 Controller installation

Put the fixing bar of the controller into the fixing pipe of the armrest, and then tighten it with the knob.

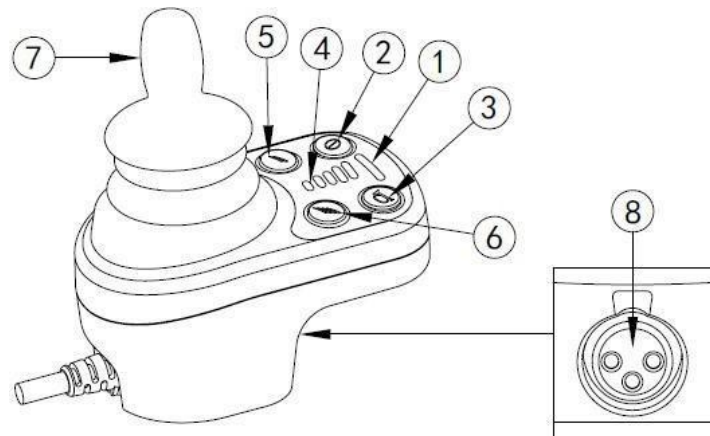


### 6.2 Controller Instructions

- ① Battery indicator light: The indicator light is divided into 5 grades, 2 grades green, 2 grades yellow, and 1 grade red. The vehicle is well charged, which is beneficial to prolong the service life of the battery: when there is only one level of red light remaining, it indicates that the battery is in a state of alert, and it is forbidden to continue to use the wheelchair. The accuracy of this five-segment display will decrease with battery use time.
- ② Power button: Control the power-on and power-off of the whole vehicle, press the switch button by hand, the vehicle is in the power-on state, and then press the switch button by hand, the vehicle is in the power-off state.
- ③ Horn button: When the vehicle is powered on, press this button, the buzzer will beep: Release, the buzzer will stop beeping.
- ④ Speed indicator light: Press the acceleration button, the indicator light turns on in 5 steps, the speed increases in 5 steps in turn, press the deceleration button, the indicator light goes out in 5 stages in turn, and the speed decreases in 5 stages in turn.
- ⑤⑥ Acceleration (deceleration) speed button: Press the acceleration button in turn, the speed indicator light will increase in 5 steps in turn, press the deceleration button in turn, the speed will decrease in 5 steps in turn.
- ⑦ Joystick: Control the vehicle's forward, backward, left and right turns, acceleration, deceleration and parking. After turning on the switch button, push the joystick forward vertically, the vehicle moves forward, the further you push, the faster the speed: release slowly When the joystick is operated, the vehicle decelerates. When the joystick is fully released and the joystick is reset, the vehicle stops and is in the braking state. Pull the joystick backwards, and the vehicle will move backwards. The further you pull it backwards, the faster the backwards speed will be. After the reset is released, the vehicle will stop and be in the braking state. In the same way, push the joystick left or right, the vehicle will move left or right, the further left or right you push, the faster



the turning speed will be: release the joystick slowly, the vehicle will slow down , when it is fully released and the joystick is reset, the vehicle stops and is in the braking state.

⑧ Charging port: located below the controller, used for battery charging (see charging method for details)

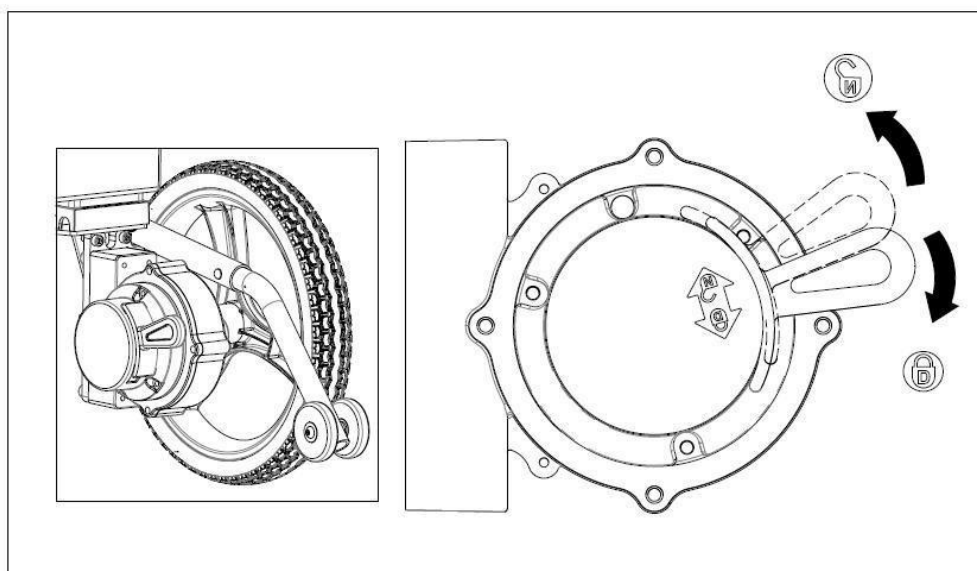


① power indicator lamp ② power button ③ horn button ④ speed indicator lamp ⑤⑥ plus (minus) speed button ⑦ control lever ⑧ charging port

### 6.3 Mechanical clutch lever

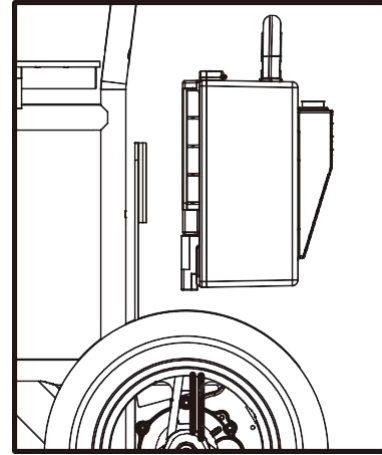
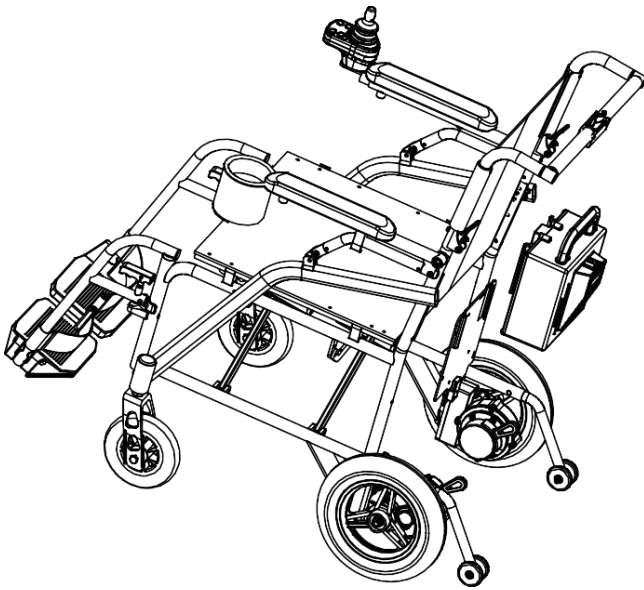
Pull the handle to the open state.  , put the car in a brake release state, which can manually push the vehicle (whether it is on or off).In the state, the pull rod can achieve this function) and return to the closed state (whether the pull rod is turned on or off.This function can be realized), and it can be turned back to the closed state.  , The vehicle is braked and cannot be pushed.

Warning: The mechanical clutch lever must be closed, that is, the wheelchair car is in a brake state before driving the wheelchair car. Prohibit.Vehicles use this function uphill and downhill to ensure the safety of users and wheelchair vehicles



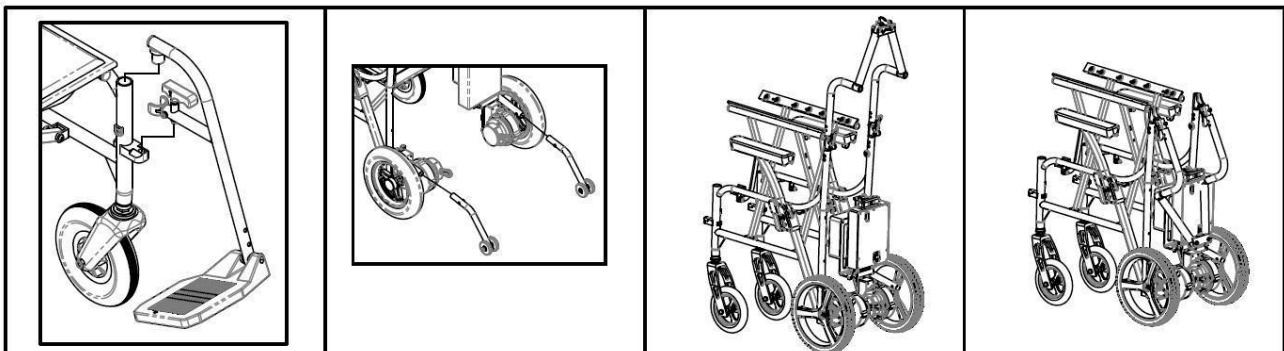
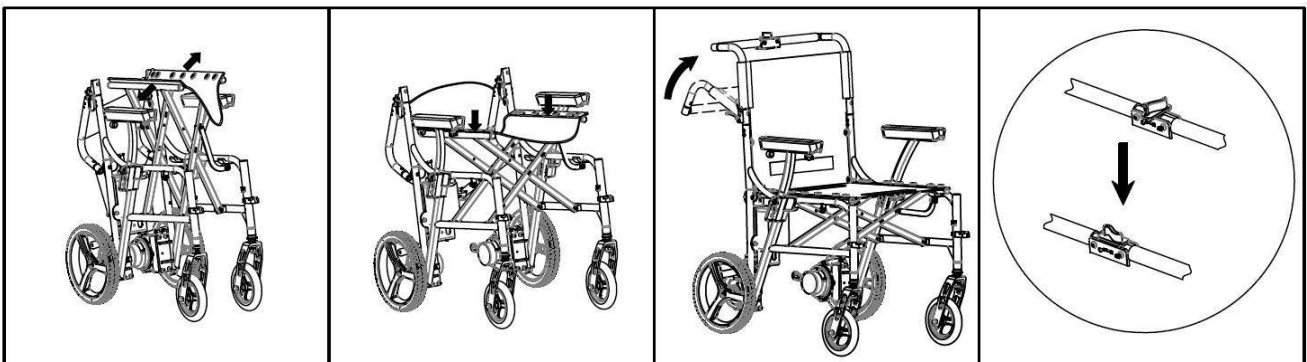
#### 6.4 Assembly and take out of battery box.

Take out: Hold the handle of the battery box and lift it up to take out the battery box;  
Assembly: Push down the slot of the battery box along the slot of the battery holder with a little force to assemble the battery box. Once assembled, secure it with the straps.



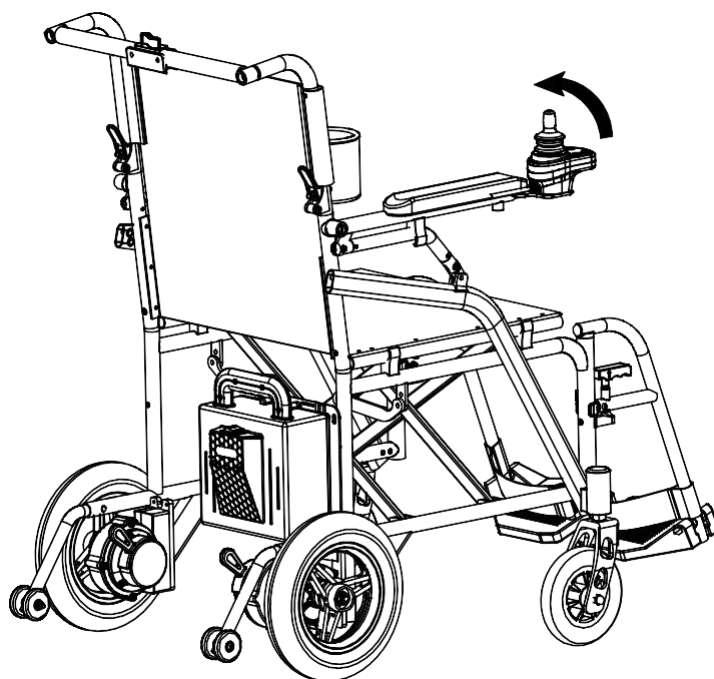
#### 6.5 Opening and folding of the vehicle

Take out the whole vehicle from the packing box, and press down both ends of the seat with both hands to make the seat flat. Then turn the push handle assembly upwards until the back folder is fully engaged, and finally screw the knob on the upper part of the push handle; assemble the footrest and anti-roll wheel. On the contrary, it is the folding of the whole vehicle.



## 6.6 Flip of the armrest

The armrest can be flipped upside down;



## 6.7 Lithium battery and charging method

Understanding lithium batteries and correctly mastering the charging methods of lithium batteries is beneficial to prolong the service life of batteries and reduce the occurrence of accidents.

### 6.7.1 The first charging method

It is not necessary to charge the battery for the first time. It is not necessary to charge the battery until the power of the controller shows a red light. Before the second/third charge, the power should be shown as a red light before charging, which can increase the service life of the battery and eliminate the lithium battery. Recharge memory. Subsequent charging can be done according to the following charging method.

### 6.7.2 Normal charging method

1. Turn the power switch on the vehicle to the "OFF" state.
2. Insert the charger microphone plug into the charging port on the controller handle for charging. Charging method:  
Charge at the charging port on the controller handle. (Charging method 1) The battery case can also be removed for charging. (Charging method 2)
3. Insert the charger power plug into the household power supply.
4. When charging starts, the red indicator light is on. The charging time varies according to the state and temperature of the battery, generally 8 to 10 hours. When charging is completed, the charger will automatically stop and display a green light.
5. When the charging indicator turns green, it means the charging is complete. At this time, please unplug the input cable of the charger first, and then unplug the microphone plug of the charger from the charging socket.

Note: When the charging indicator turns green, it is best to overcharge for about 2 hours, which is good for the life of the battery. Note: In order to avoid accidents caused by abnormal charging,

please abide by the following regulations.

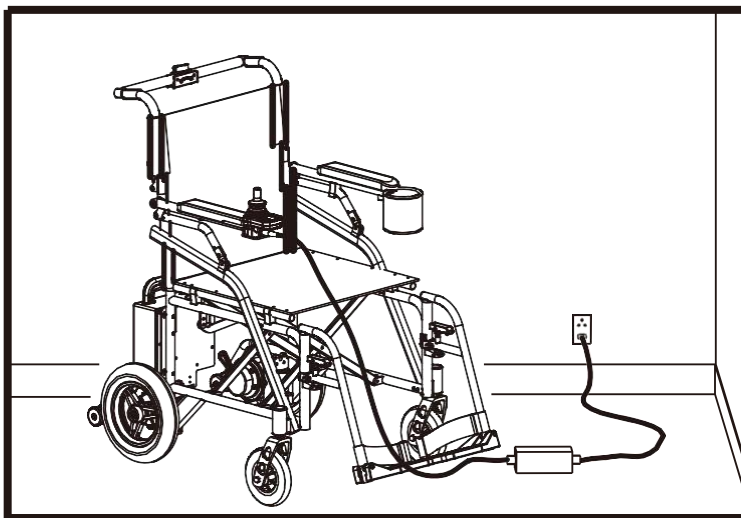
Note: Please use the dedicated charger for this vehicle, and be sure to charge it to a fully charged state; if you use a charger other than the dedicated charger, it may fail to charge or cause damage to the lithium battery.

Note: Do not disassemble or modify the charger.

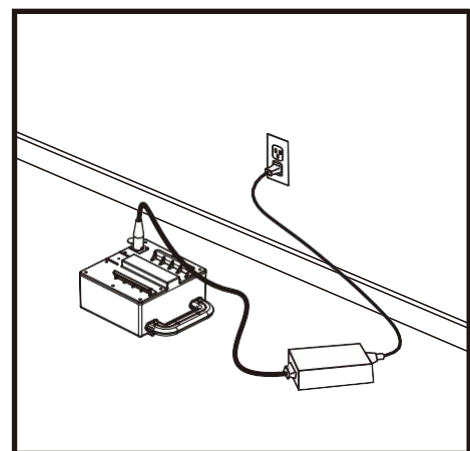
Note: Please charge in a well-ventilated place out of direct sunlight.

### 6.7.3 Lithium battery precautions

1. Please do not recharge the lithium battery when it is fully charged.
2. Lithium batteries should not be deeply discharged, and the depth of discharge should be 30%~50%, generally not more than 80%.
3. If you don't use it frequently, please don't charge it frequently: you can charge it every other month.
4. The lithium battery should be charged in time after use, and it is forbidden to store it in a power-deficient state.
5. It is forbidden for lithium batteries to be near fire, immersed in water, overheated (45°C), violent vibration, collision and positive and negative short-circuit.
6. Please do not charge the lithium battery for a long time, the charging time generally does not exceed 20 hours.
7. When the lithium battery is discarded, do not throw it away at will, you can contact the dealer or the company



(Charging method one)



(Charging method two)

### 6.7.4 About the charger

Remarks: For details, please refer to the specifications on the nameplate of the charger

Please note that electric wheelchairs should have safe circuits to prevent walking while charging. If the car cannot drive normally after charging, please check whether the battery charger is disconnected from the charging terminal. The charger must be kept in a dry environment at temperatures between -25°C and 40°C and should not suffer mechanical damage. In all cases, the charger must only be repaired by an authorized dealer. Notice:

1. You can only use our original charger. Using other chargers will affect the product's warranty

rights. Using an unapproved charger can cause serious damage to the battery or wheelchair. Using the wrong charger can even create a fire hazard.

2. The input voltage of the charger is only limited to the commercial power frequency voltage, and it is forbidden to use the power frequency voltage higher than the commercial power.
3. The charger is forbidden to be used in the case of high tide and high heat.
4. The charger has many automatic protection functions, and no special care is required when charging. When the battery is full, the charger will automatically stop charging, and there is no need to plug and unplug the charger. However, the charger is not allowed to be connected to the electric wheelchair for a long time, generally no more than 20 hours.
5. When the charger is overheated (greater than 70°C), sparks, smoke, etc., the power of the charger should be cut off quickly.

Note:

This battery charger has passed the GB/T18029.21-2012 test.

This battery charger has complied with GB9706.1-2007 Medical Electrical Equipment Part 1: General Requirements for Safety.

## 7.Repair and maintenance

In order to maintain the performance of the vehicle, reduce the occurrence of failures, and enable you to drive the wheelchair safely and comfortably. In daily use, please pay attention to the following points:

1.1 Carefully read the safety operation contents and understand the meanings.

1.2 The wheelchair controller is a key part of the whole vehicle, just like the human brain. Do not open it for repairs without authorization, or otherwise change the behavior of the controller. This will damage the controller and void the warranty. Dirt on the controller surface should be wiped off with a soft, dry cloth. It is strictly forbidden to use the controller in a high temperature or humid environment.

Do not attempt to open, repair or otherwise alter the motor gearbox, doing so will damage the gearbox and void the warranty. It is strictly forbidden for the motor to be overloaded and locked for a long time, and the stator windings on the motor lead-out line should be cleaned frequently. It is strictly forbidden to enter the water. When the water exceeds 5cm, the motor may enter the water, which may permanently damage the motor.

1.3 Do not use gasoline or other chemicals to wipe the wheelchair cover and other parts. It should be wiped with a soft cloth that has been wrung out after being wet. If there is a lot of dirt, it can be wiped with a neutral detergent. At the same time, check and maintain the wheelchair at different time periods.

1.4 Daily check:

1. Check whether the operating joystick is deformed or damaged.
2. After pressing the switch button, check if the charging is required.
3. Check for the brakes before driving.

Weekly check:

1. Before checking, please confirm that the controller is turned off.
2. Verify whether the rubber sheath at the bottom of the rod shaft is detached or broken. (This inspection requires only a visual inspection, and no direct contact with the sheath.)
3. Wipe the vehicle with a soft and wet cloth not to wet the electrical system.
4. Try operating the joystick. When it is released, confirm that the joystick can return to the central point.

Monthly check:

1. Check the battery condition and wipe the battery connector if necessary.
-

2. Check the electrical system and whether the connector is in good contact.
3. Check whether the fasteners are loose.
4. Check whether the front and rear tires are shaking.
5. Check the operating joystick, when the joystick is released, confirm that the joystick can return to the center point. If you find any problems during the process, please contact your dealer.

Annual Check:

Go to the dealer and ask a technician to do a thorough inspection of your wheelchair

Environmental condition

1. Transportation and storage
  - a) Ambient temperature range: -40°C - -65°C;
  - b) Relative humidity: 0% -90%;
  - c) Atmospheric pressure range: 860hPa ~1060hPa;
2. Work runtime
  - a) Ambient temperature range: -25°C - -60°C;
  - b) Relative humidity: 20% -85%.

### Controller troubleshooting:

The controller contains routines for identifying problem points and troubleshooting. When the diagnostic routine detects problems and errors, the power meter 5 lights on the controller are fully lit and flashing rapidly. Users can try the following methods to solve the problem, if the problem persists, please consult us or our agents

Power indicator flashes	Possible failure
2+1	Upper and lower circuit board signal (Controller signal)
2+2	Poor contact with the right motor or plug
2+3	Poor right brake or plug contact
2+4	Poor contact with the left motor or plug
2+5	Poor contact with the left brake or plug
2+6	overcurrent
2+7	Poor contact with the joystick or line
2+8	Controller fault
2+9	Low voltage or controller problem

For example: 2 + 1 represents didi di

## 8.List of accessories




Please check for any lost host and accessories (accessories list is subject to the random accessories list), if found any damage or lack, please timely Contact the dealer or the company.

Name	Quantity	Remark
Wheelchair main body	1 PC	
Battery case	1 SET	
Datum	1 SET	One service instruction manual; one qualification certificate; one warranty card



- 9.1 It is recommended to replace the battery once a year and replace at the dealer;
- 9.2 After the tire pattern is worn in half, it is recommended to replace it to the dealer;

## 9. Interpretation of graphics and symbols

No	figure	meaning
1		Type B application section
2		Class II equipment
3		Notice! Consult random files

## 10. Quality Guarantee Letter:

In order to protect your interests and get good after-sales service from our company, please read this chapter carefully.

### (1) Guarantee content, object and period

#### 1. Guarantee content:

Purchase from the designated dealer or the company, operate and use according to this manual, and repair at the designated maintenance place during the warranty period. The company promises to repair or replace different parts for product quality problems caused by materials or manufacturing.

#### 1. The object and duration of the guarantee are from the date of manufacture:

Main frame, 5 years warranty. Controller, 2 years warranty.

Other electrical parts (including drive motor and battery) are guaranteed to be repaired within 1 year.

Consumable items such as tires, handle covers, seats, back cushions, etc. are not covered by the warranty. Under normal circumstances, consumers bear their losses.

### (2) Quality problems caused by the following circumstances do not have the effect of guarantee:

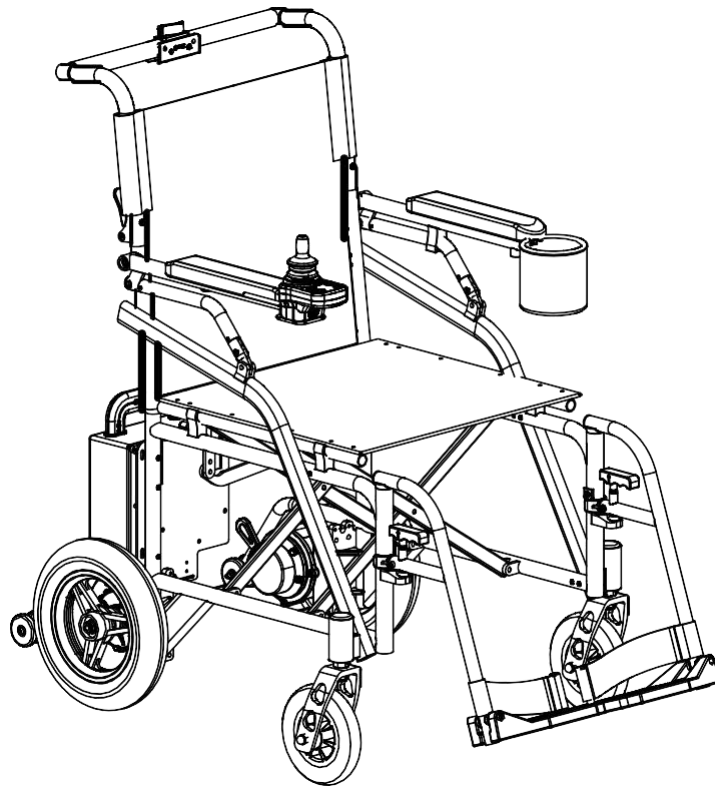
- a. Failure to operate in accordance with the instruction manual and other human factors;
- b. It is not repaired at the maintenance place designated by the company;
- c. Exceeding the guarantee period;
- d. Not using parts manufactured by the company;
- e. Used in excess of the maximum carrying capacity (100kg);
- f. Caused by force majeure such as typhoon, flood, fire, earthquake, war, etc.

Name of user:	
Address:	Phone number:
Product name:	Bar code:
Purchase date:	
Warranty period: (except 6 months for battery), as indicated	
National toll-free number: 400-667-6108	

Note: Please go to the dealer for warranty registration within one month. This card will be stamped by the dealer or the manufacturer to take effect, and the warranty will be carried out with this card.

Maintenance record  
Maintenance record

Date	Problem	Reason	Remark



Instructions Date of preparation: 2022-9-11

Version: V.02

Registered model: Type DYN36C

National toll-free number: 400-667-6108