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Dear users:

Thank you for choosing the electric wheelchair of Shanghai Bangbang Robotics Co., LTD. Robooter E40 Product Manual is an important document that provides the product information, operation methods and after-sales service information of the electric wheelchair. Before use, please carefully read Robooter E40 Product Manual for correct operation and maintenance. This manual contains information protected by patent rights and copyright. Do not copy the content either partially or completely without the written permission of Shanghai Bangbang Robotics Co., LTD. The contents of this manual are subject to change without prior notice. For the latest information on the equipment, please visit the Robooter website.



1.1 Symbol description	
Warning The text contents with this symbol mean that, in case of being ignored, there may be serious injury.	
Notes The text contents with this symbol mean that, in case of being ignored, there may be slight or moderate damage or material damage.	
1.2 Applicable range of this product	
helping disabled, elderly and frail people who have difficulty walking to move.	
1.3 People unsuitable for using this product	
Warning Contraindications: The patients with mental problems, including the users who temporarily or permanently lose attention or judgment, are not allowed to use this product.	
1.4 Precautions for electrical safety	
Notes This electric wheelchair has passed the test in accordance with ISO 7176-9 Climatic Test.	

CONTENTS INCLUDE

1.Safety precautions	2.Product introduction
3.Part introduction of the electric wheelchair	4.Use of the electric wheelchair
5.Maintenance and troubleshooting	6.APP operation guide of the electric wheelchair
7.Disclaimer	8.Packing list
9.Reprot serious event to FDA	

1.7 Precautions during use

(1) Driving on slopes

This electric wheelchair has passed the test requirements of climbing on a slope of not exceeding 9° with a load of 150kg. Do not try to climb the slopes exceeding 9°.

During reversing on a slope, please be sure to slow down the electric wheelchair. Do not reverse on a slope exceeding 9°. During reversing, please be extremely careful.

(2) The ability of climbing slope and driving distance are affected by battery and following environment:

For example: Weight of the users; Topography (such as grass or gravel); Gradient of hill; Battery life and service life; Extreme temperature; Use and weight of the fittings, etc.

(3) Braking

When the electric wheelchair brakes, please sit down and hold the handrail firmly.

When releasing the upper controller rocker, the electric wheelchair will stop within seconds.

Note: Electromagnetic brake will not take effect immediately and will take effect after the wheel rotates.

(4) Emergency braking

In case of critical situation or unexpected movement, press the power switch key to make the electric wheelchair stop (this emergency brake is effective, however, it shall not be used under normal conditions).

Note: Frequent use of emergency brake may make the motor faulty and further prevents the electric wheelchair from being normally used.

(5) Use of mobile phone

Do not drive the wheelchair with Mobile Application at any time. Please pay attention to road condition when you driving. The Mobile Application only can be used to help patient move wheelchair and set parameters, NOT used to drive wheelchair.

(6) The Electric wheelchair may not be fixed as a seat in a moving vehicle.

(7) The speed of the whole vehicle will vary depending on the tire pressure, ground, environment and power.

(8) Any changes or modifications not expressly approved by the party responsible for

- This test ensures that the users or escorts of the electric wheelchair have enough time to move the electric wheelchair from the rain to a safe place; Do not operate the electric wheelchair in thunderstorms;
- Do not place this electric wheelchair under a rainstorm;
- Do not place this electric wheelchair in a wet place for a long time;
- Do not spray or wash the electric wheelchair with an automatic car wash. If being directly exposed to rain, smog or wet air, the electric wheelchair may have an electrical and mechanical fault or go rusty.

1.5 Product use conditions

! Notes

- Environmental temperature: -10°C~50°C; Relative humidity: 20%~95%;
- Atmospheric pressure: 70kpa~110kpa; No strong electromagnetic interference.
- The safety belt is used as a safety accessory; it is used to prevent the user from rushing out of the Electric Wheelchair when it stops in operation to ensure the safety of the user.

1.6 Disposal considerations

! Notes

- In accordance with local laws and regulations, your product shall be processed separating from the domestic waste. The product shall be recycled in the recycling point designated by local government. The classified collection and recycling of this product facilitate conservation of natural resources.

1.8 Specific warnings (please read carefully)

 1.8 Specific warning (please read carefully)

Do not perform snake driving, high-speed sharp turn and other dangerous driving operations, otherwise it may lead to the electric wheelchair tilt and human injury;

- Do not use the electric wheelchair on escalators, which may increase the risk of being injured;
- Do not drive on the motor vehicle lane or non-pedestrian;
- Do not drive on the surface of water, oil, ice or other slippery objects. If not, the electric wheelchair may be out of control;
- Do not try to cross the obstacle or ditch of 40mm. If not, personal injury may be caused;
- Do not sharply bend or move backwards under high speed driving;
- Do not take passengers on the electric wheelchair;
- Do not operate the electric wheelchair without checking the fasteners, connectors or detachable parts for correct connection and fastening. Please always pay attention to the surrounding environment;
- Do not repair any part, fitting or adapter of the electric wheelchair without authorization;
- Do not get on without braking;
- Do not operate the electric wheelchair when your judgment may be affected (such as drink, take drugs or take medicine);
- Do not operate the electric wheelchair when you are suddenly out of sorts;
- Do not operate the electric wheelchair when your sight is seriously weakened;
- For the injury accident caused by violation of local or international laws or regulations, we undertake no responsibility;
- All the functions can only be operated after you correctly sit on the seat;
- Do not place your feet in any part out of the pedal;
- Do not stand on the electric wheelchair;
- Do not try to go up and down the slope exceeding 15°;
- Do not reverse on the slope exceeding 15°;
- When driving on the slope, release the control system, and the electric wheelchair may step back; When moving forward or backward, the electric wheelchair may roll before the braking function takes effect. Please take care of safety;

compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
Please follow the traffic rules.

1.9 Excerpts from EMC-related guidelines and statements in manufacturer's accompanying documents

EMI Compliance Table(Table 1)

Phenomenon	Compliance	Electromagnetic environment
RF emissions	CISPR 11 Group 1,Class B	Home healthcare environment
Harmonic distortion	IEC61000-3-2 Class A	Home healthcare environment
Voltage fluctuations and flicker	IEC61000-3-3 Compliance	Home healthcare environment

Table 1-Emission

EMS Compliance Table (Table2-5)

Phenomenon	Basic EMC standard	Immunity test levels
		Home healthcare environment
Electrostatic Discharge	IEC 61000-4-2	±8kV contact ±2kV, ±4kV, ±8kV, ±15kV air
Radiated RF EM field	IEC 61000-4-3	20V/m 26MHz±2.5GHz 80% AM at 1kHz 10V/m 80MHz±2.7GHz 80% AM at 1kHz
Proximity fields From RD Wireless communications equipment	IEC 61000-4-3	Refer to table 3
Rated power Frequency Magnetic fields	IEC 61000-4-8	30A/m 50Hz or 60Hz

Table 2-Enclosure Port

- Before use of the electric wheelchair, please check the connection of all electrical parts for safety and reliability;
- Do not disconnect, snip or modify the wiring harness parts which have been installed on the electric wheelchair under any condition.
- Do not use other unqualified batteries, such as the lead acid batteries which cannot be recycled, the batteries of other manufacturers, etc.
- Before installation, please read the information related to batteries and battery charger.
- The Electric wheelchair may not be fixed as a seat in a moving vehicle.
- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.**In case of violation of the above requirements, there may be unexpected damages.**

Phenomenon	Basic EMCstandard	Immunity test levels	
		Home healthcare environment	
Conducted disturbances induced by RF fields	IEC61000-4-6	3V0.15MHz-80MHz6V in ISM bands and amateur radiobands between 0.15MHz and 80MHz 80%AM at 1kHz	

Table 5 – Signal input/output parts port

Cable	Max. cable length, Shielded/unshielded		Number	Cable classification
AC Power Line	1.8M	Unshielded	1 Set	AC Power
DC Power Line(USB Cable)	0.95M	Unshielded	1 Set	DC Power

Table 6-Cable information

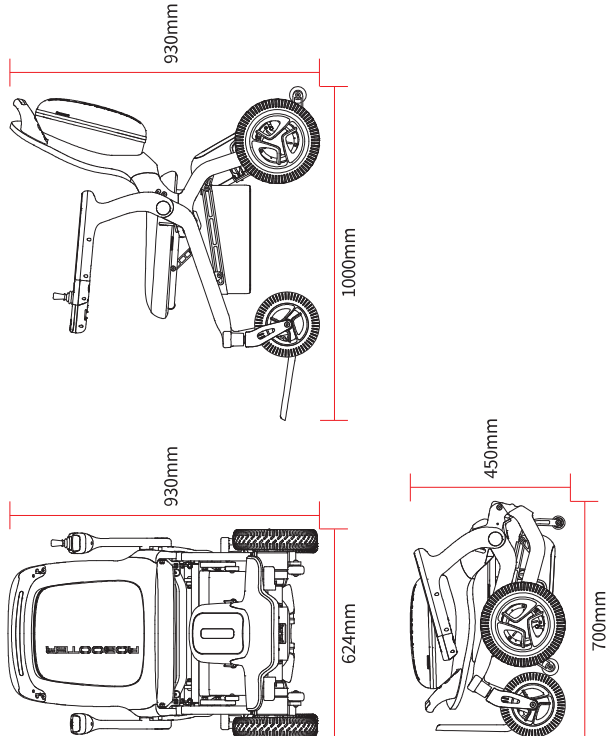
	Standard	Home healthcare environment
Electrical fast Transients/burst	IEC 61000-4-4	±2kV 100kHz repetition frequency
Surges Line-to-line	IEC 61000-4-5	±0.5kV, ±1kV
Conducted Disturbances Induced by RF fields	IEC 61000-4-6	3V, 0.15MHz-80MHz 6V in ISM bands and amateur radio bands Between 0.15MHz and 80MHz 80%AM at 1kHz
Voltage dips	IEC 61000-4-11	0% U _i ; 0.5 cycle At 0° ,45° ,90°135° ,180° ,225° ,270° and 315°
		0% U _i ; 1 cycle and 70% U _i ; 25/30 cycles Single phase: at 0°
Voltage interruptions	IEC 61000-4-11	0% U _i ; 25/30 cycles U _i =rated input Voltage

Table 4 – Input a.c. power port

2.2 Main structure of the product



Figure 2.2.1



2.1 Product features and functions

The DC brushless deceleration motor which is energy saving and efficient is the core part to drive the electric wheelchair. The motor is featured for its large torque, high efficiency and power saving.

- The special upper controller is used to achieve the intelligent control of the motor. Through the independent rocker operation, it can achieve forwarding, differential turn, low speed reversing and other actions, making it easy to control the electric wheelchair;
- Fast and efficient folding and unfolding action can be realized; It has the characteristics of safety and reliability, simple operation;
- The foldable frame structure has the advantages of portability, being compact, easy to carry (car trunk and air transportation) and no space occupation.
- Power saving mode: Automatic shutdown if case of no 30min operation. The app terminal can select the automatic shutdown time: 30min, no shutdown;
- Cruise control mode: Press "speed ^" button for 3 seconds and enter the cruise control mode. The front rocker starts the cruise control;
- Novice mode: Click Fn to enter the novice mode. The voice prompts "Enter the novice mode" and the screen displays the novice mode icon. The first and second gears are optional. Speed gear limit 2.

2.4 Storage conditions

- The packaging storage temperature is -20°C~60°C;
- The relative humidity is no more than 95%;
- The atmospheric pressure shall be 56~110kPa;
- The electric wheelchair shall be stored in the ventilated room without the harmful gas which may cause corrosion, and it is not allowed to press and pile up;
- Under packed status, the maximum piling height is 5 layers.
- Do not make the product stored in the places which get close to high temperature source or direct sunlight for a long term.
- If the product will not be used for a long term, please store the electric wheelchair is fully charged and power off.
- If the product is stored exceeding one month, please fully charge, and then continue storing and using.

2.3 Main technical indicators

Product model	BBR-E40-01
the type Class of the wheelchair: Class A, Class B or Class C	Class A
Folding mode	Manual folding
Maximum speed	8km/h
Maximum barrier height	40mm
Maximum crossing ditch width	10cm
Minimum turning radius	450mm
Total weight	27kg
Battery number	1
Battery weight	3.4kg
Specifications of front and rear wheels	8-inch front wheel, 10-inch rear wheel
Maximum load	150kg
Battery capacity	20Ah
Overall dimension (length * width * height)	1000*624*930mm
Folding shape dimension (length * width * height)	700*624*450mm
Seat wide	46cm
Theoretical driving distance	23km
Bearing capacity of the storage basket:	≤5kg
the minimum width of corridor in which the wheelchair can be turned to face the opposite direction	1800mm
the rated slope, expressed in degrees	9°
the type(s) of tyres that can be used on the wheelchair if the wheelchair can be dismantled or has any removable parts, the mass of the heaviest part	Pneumatic rubber tires; PU tires
Overall length with legrest	23.5kg
Static stability downhill	1000mm
Static stability uphill	9°
Static stability sideways	9°
Dynamic stability uphill	9°
Minimum braking distance from max speed	1100mm
Footrest to seat distance	400mm
Leg to seat surface angle	100°
Armrest to seat distance	230mm
Front location of armrest structure	500mm
Waterproof grade	IPX4

Table 2.3

4.1 Notice for use

- Please carefully read the Product Manual before use and check whether the parts are in good condition to ensure your safety;
- When the electric wheelchair is operated for the first time, level and hard ground shall be selected as soon as possible to ensure that your sounding area has no barrier or pedestrian;
- Do not remove the motor and the upper controller by yourself. If replacement is required, please purchase the original parts from the authorized agent;
- If the electric wheelchair is artificially modified, the use of non-original parts will be exempted from the warranty liability;
- Do not give the electric wheelchair to minors or other people who are not suitable for the electric wheelchair;
- Do not overload driving (the maximum load of the electric wheelchair is 150kg); It is limited for 1 person;
- Make sure that the electric wheelchair is already fully expanded;
- Make sure that you have fastened the electric wheelchair seat belt;
- When you sit correctly in the electric wheelchair and gently push the upper controller rocker, the electric wheelchair will move forward, back, turn left or turn right; The electric wheelchair will be stopped after the release. Practice this basic function until you are skilled;
- During steering, please clear the barriers nearby;
- Please obey the traffic rules and drive in the non-motorized lane to ensure the safety of you and others. Please drive slowly and Do not take others;
- When the electric wheelchair is operated in a relatively harsh environment (e.g., when entering or turning), the electric wheelchair should be operated slowly. It is recommended to minimize to the lowest speed of the electric wheelchair in harsh environments;
- Check whether the electric wheelchair is in good condition, such as whether the performance is normal;
- The electric wheelchair will automatically shut down if being idled for 30 minutes;



Figure 3.1

4.2 Expanding and folding operation mode

4.2.1 Expanding and folding operation mode

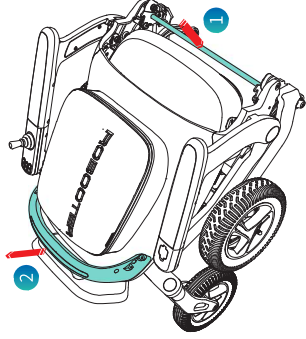


Figure 4.2.1.1

Expanding operation mode: When manually expanding the electric wheelchair, please press the folding switch with one hand (position 1 in Figure 4.2.1.1) and pull the armrest up with the other hand (position 2 in Figure 4.2.1.1) until the electric wheelchair is fully expanded;

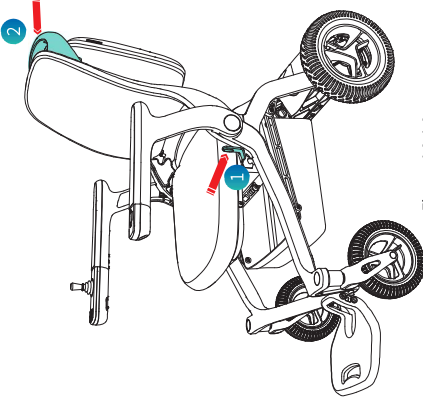


Figure 4.2.1.2

Folding operation mode: When manually folding the electric wheelchair, please press the folding switch with one hand (position 1 in Figure 4.2.1.2) and pull the armrest up with the other hand (position 2 in Figure 4.2.1.2) until the electric wheelchair is fully folded;

Remarks: Before folding the electric wheelchair, empty the items in the storage basket to prevent damage.

- When using an electric wheelchair, avoid being close to a radio transmitter, high-power handheld radio transmitter or receiver;
- Any error or improvement in the Product Manual will be specified in the new specification. We may launch new products to meet the market needs at any time. If there is any difference between the relevant functional description and performance and this manual, the specific products and relevant supplementary instructions shall prevail, and it will not be stated in this manual;

4.3 Upper controller

4.3.1 Introduction to the upper controller

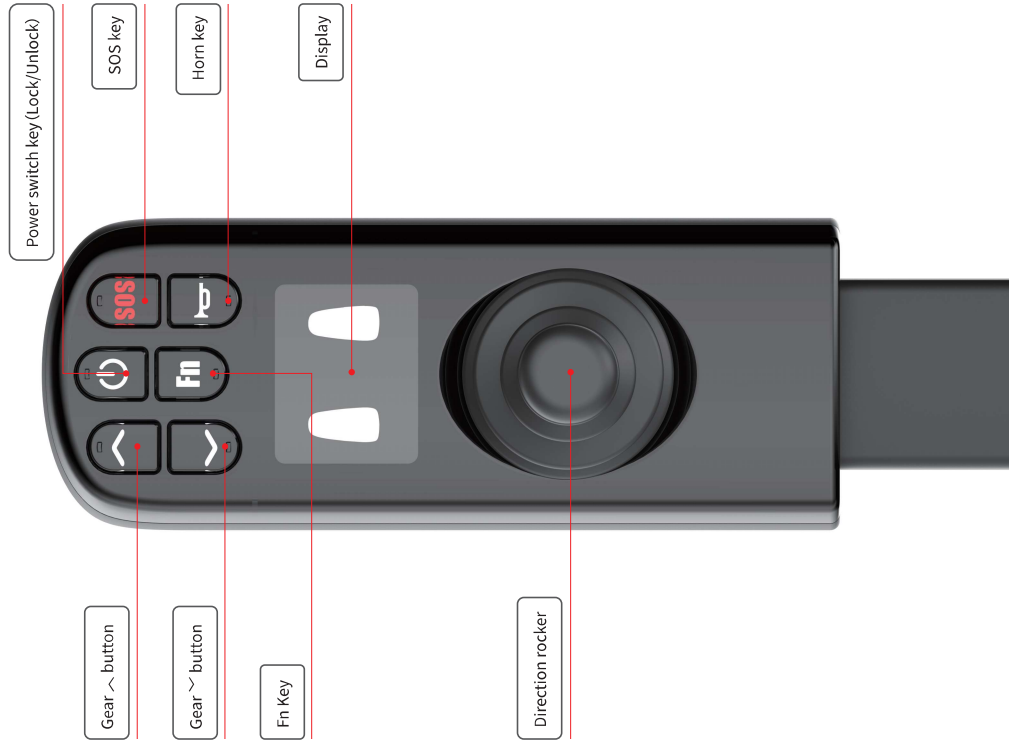


Figure 4.3.1

4.2.2 Anti-clamp

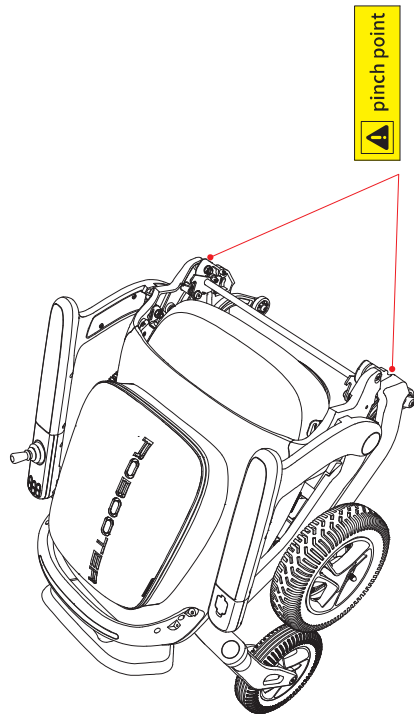


Figure 4.2.2

Note: During the folding/expanding steps, Do not contact the position indicated in the anti-clamp manual;

4.3.3 Display screen menu description

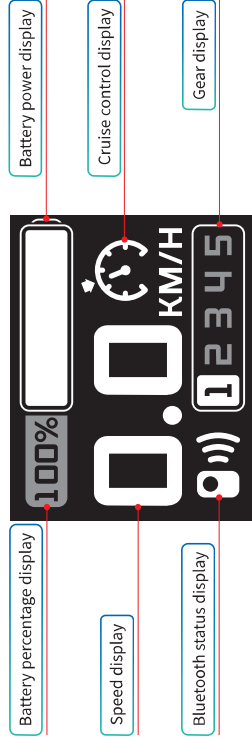


Figure 4.3.3.1

- (1) Battery percentage display (as shown in Figure 4.3.3.1)

The upper controller screen of electric wheelchair displays the battery in %;

- (2) Speed display (as shown in Figure 4.3.3.1)

The upper controller screen displays the electric wheelchair driving speed

(unit: km/h);

The precision of the displayed speed is $\pm 5\%$;

- (3) Bluetooth status display (as shown in Figure 4.3.3.1)

Without Bluetooth connection, the Bluetooth indicator sign is not displayed on the screen;

With Bluetooth connection, the Bluetooth indicator sign is displayed on the screen;

- (4) Battery power display (as shown in Figure 4.3.3.1)

The upper controller displays the power state in real time;

- (5) Cruise control display (as shown in Figure 4.3.3.1)

- Press and hold the "Speed $\wedge$ " button for more than 3s to enter the cruise control mode. The electric wheelchair upper controller screen displays the cruise control icon, and the voice prompts two times. Push the rocker forward to start the cruise control;

- Press the key or move the rocker backward to exit the cruise control (regardless of driving state);

- The cruise control function can only be triggered when non-locked, and cannot be triggered in locked mode;

4.Use of the electric wheelchair

4.3.2 Function description of the upper controller

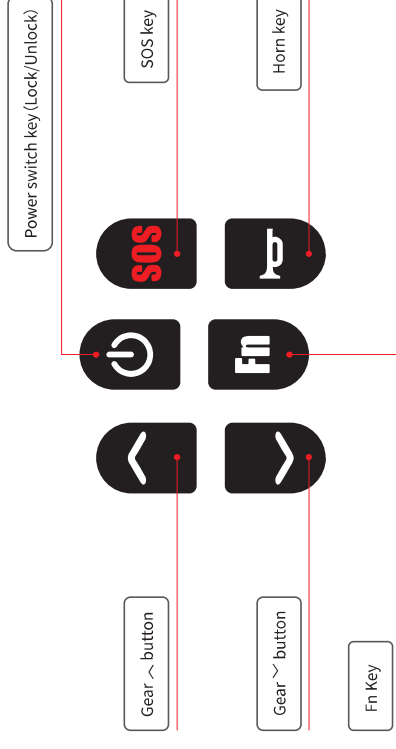


Figure 4.3.2

- (1) Direction rocker

Pushing the upper controller rocker can control the speed and direction of the electric wheelchair;

- (2) Power switch key

Long press for 3 seconds to turn on the power supply and long press for 3 seconds to turn off the power supply;

Press the power switch key to turn on the vehicle locking function;

Press the power switch key to unlock the entire vehicle, and the current status is unlocked;

- (3) Gear $\wedge$ button

Press " $\wedge$ " to add a gear (Up to 5 gears);

- (4) Gear $\vee$ button

Press " $\vee$ " to reduce one gear (minimum 1 gear);

- (5) Horn key

Press the horn button once, and the horn will sound once;

- (6) SOS key

Press and hold for 3 seconds to sound the SOS alarm of the electric wheelchair;

- (7) Fn key

Click Fn to enter the novice mode, and the screen will display gear 1, gear 2 and the NOVICE icon, accompanied by the voice prompt of "Enter the novice mode". Speed gear limit 2 (the first and second gears are optional).

- " ^ " and " ~ " can be used to adjust the gears during the cruise control process;
- Dial the rocker to control the bending during the cruise control process;
- After entering the cruise control mode, if the cruise control mode is not started within 5s, the cruise control mode will be automatically exited, and the voice prompt "With wait timeout, the cruise control mode has been automatically exited" will be given.

(6) Gear display (as shown in Figure 4.3.3.1)

Press " ^ " to add a gear (Up to 5 gears)

Press " ~ " to reduce one gear (minimum 1 gear);

The above functions can also be realized on the APP (the APP can be adjusted in different gears);

The electric wheelchair upper controller screen displays the speed gear.



Figure 4.3.3.2

(7) Novice mode display (as shown in Figure 4.3.3.2)

Click Fn to enter the novice mode, and the screen will display gear 1, gear 2 and the NOVICE icon, accompanied by the voice prompt of "Enter the novice mode". Speed gear limit 2 (the first and second gears are optional).



Figure 4.3.3.3

(8) Fault code display (as shown in Figure 4.3.3.3)

For the diagnostic code displayed by the built-in information diagnostic of the product, refer to 5.2 troubleshooting for the content.



Figure 4.3.3.4

(9) SOS display (as shown in Figure 4.3.3.4)

Long press SOS button for 3 seconds to start SOS call. The screen displays SOS icon and flashes.

4.4 Use of armrest touch light

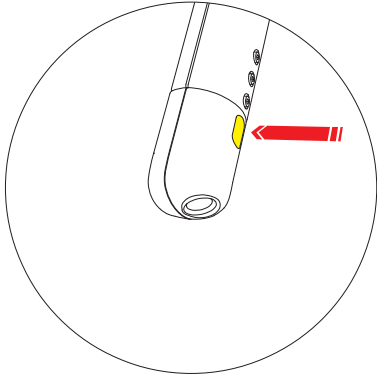


Figure 4.4

Touch the touch switch of the lower armrest lamp on the left upper control to control the light on and off of the armrest touch lamp. (As shown on Figure 4.4)

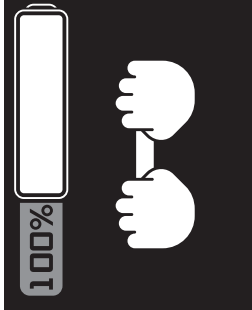


Figure 4.3.3.5

(10) Pushing mode display (as shown in Figure 4.3.3.5)
At the same time, press and hold the button "Speed ^" and "Speed ~" for 3s, and the pushing mode icon will be displayed on the upper controller screen of electric wheelchair.

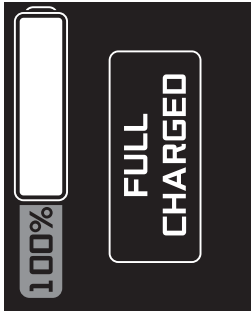


Figure 4.3.3.6

(11) Battery charging status display (as shown in Figure 4.3.3.6)
After the charging port of the electric wheelchair is connected to the charger, the upper controller screen will display CHARGING icon, meaning that the electric wheelchair is being charged;
After the electric wheelchair is fully charged, the upper controller screen will display FULL CHARGED icon, meaning that the electric wheelchair has been charged.

4.5.2 Gear adjustment operation mode of left and right armrest controller

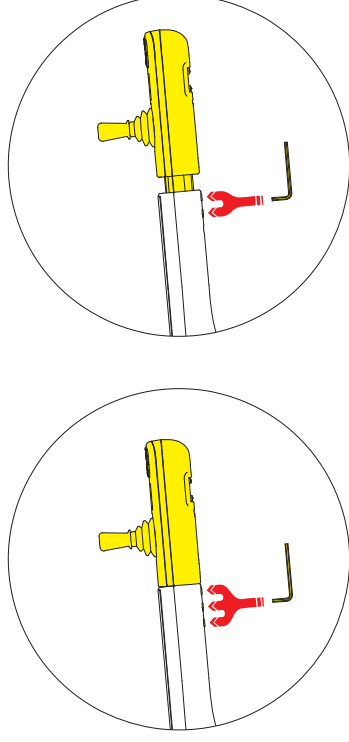


Figure 4.5.2

Step 1, please turn off the machine power before adjusting the gear of the left and right armrest controllers.

Step 2, use a hex wrench to remove the three Allen screws under the armrest controller, and the controller moves outward by one gear.

Step 3, use the hexagonal wrench to lock the hexagon socket screw. (As shown on Figure 4.5.2)

4.5 Left and right handrails

4.5.1 Interchangeable operation mode of left and right armrest controllers

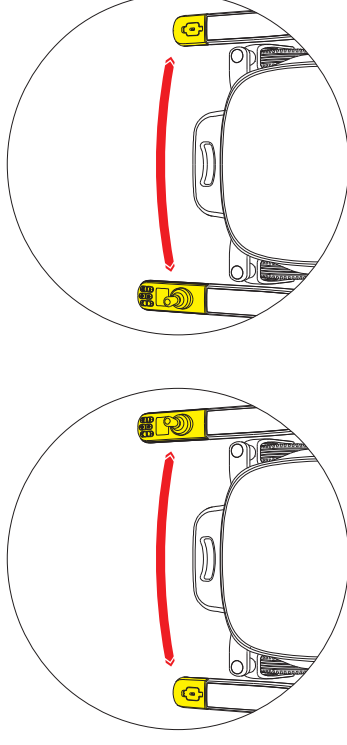


Figure 4.5.1

Step 1, please turn off the machine power before exchanging the left and right armrest controllers.

Step 2, use a hex wrench to remove the three Allen screws under the armrest controller and open the connecting harness of the left and right controllers.

Step 3, interchange the left and right controllers, connect the harness, insert the left and right controllers into the armrest controller card slot, and use the hexagonal wrench to lock the hexagon socket screws. (As shown on Figure 4.5.1)

4.6 Battery

4.6.1 Battery disassembly

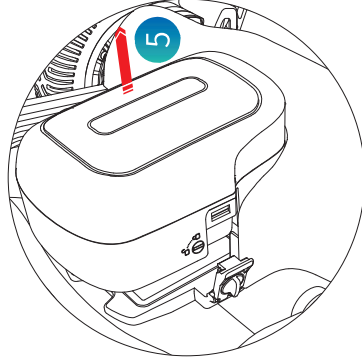


Figure 4.6.1.3

(3)In Step 3, remove the battery in the direction shown in the figure. (As shown on Figure 4.6.1.3)

4.6.2 Battery Installation

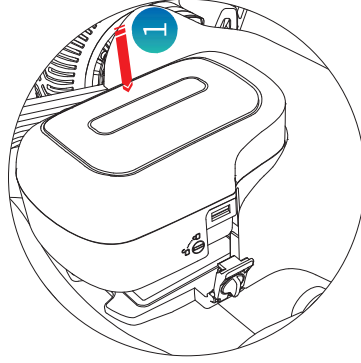
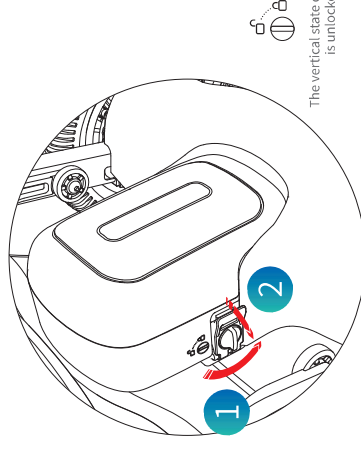


Figure 4.6.2.1

(1)In Step 1, place the battery in the cell slot in the direction shown. (As shown on Figure 4.6.2.1)



The vertical state of the knob is unlocked

Figure 4.6.1.1

(1)In Step 1, manually rotate the left knob of the battery case and rotate the left knob to the unlocking position. Then open the battery left buckle. (As shown on Figure 4.6.1.1)

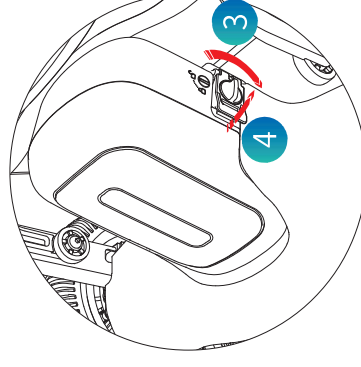


Figure 4.6.1.2

(2)In Step 2, manually rotate the right knob of the battery case and rotate the right knob to the unlocking position. Then open the battery right buckle. (As shown on Figure 4.6.1.2)

4.7 Switch to pushing mode

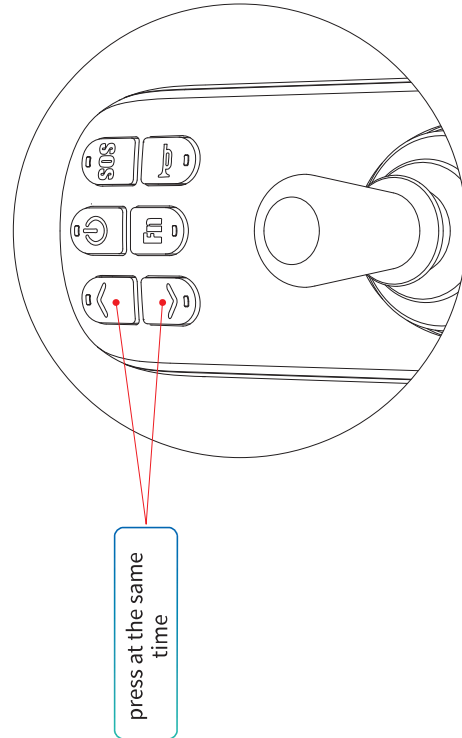


Figure 4.7

Press '↵' key and '↵' key at the same time to enter pushing mode. Shake the rocker can exit the pushing mode;(As shown on Figure 4.7)

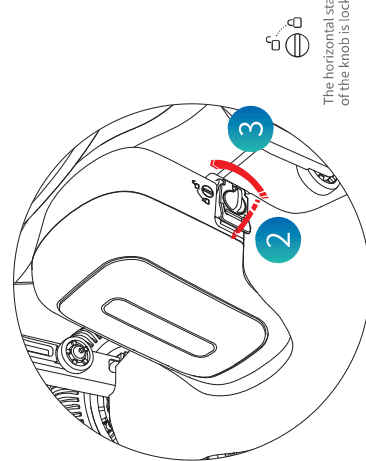


Figure 4.6.2.2

(2) In Step 2, manually close the battery right buckle and rotate the right knob of the battery box with the right knob to the locked position. (As shown on Figure 4.6.2.2)

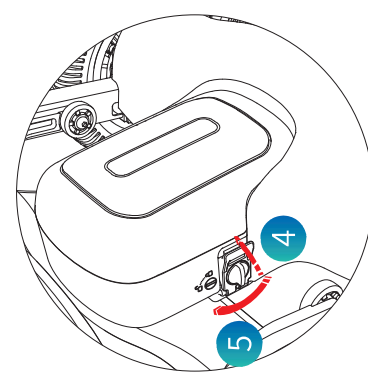


Figure 4.6.2.3

(3) In Step 3, manually close the battery left buckle and rotate the left knob of the battery box with the left knob to the locked position. (As shown on Figure 4.6.2.3)

5.1 Daily spot inspection and maintenance

- The electric wheelchair user or operator is responsible for the cleaning, inspection and maintenance;
- General maintenance of the electric wheelchair includes: Clean electric wheelchairs, check tires, check batteries;
- Our suggestion: The electric wheelchair shall be checked every 6 months;
- When the electric wheelchair needs to be cleaned, the upper controller should be wiped with the clean towel;
- Regularly (weekly or monthly, depending on the frequency) check the connecting parts (such as screws and nuts) for loosening, falling and corrosion, etc.;
- Regularly check whether the folding parts are stuck, falling off and other conditions;
- Regularly check the tires for aging and serious wear, etc.;
- In case of rain or wet weather, the electric wheelchair shall be wiped dry as much as possible to prevent rust due to dampness;
- Electric wheelchairs should try to avoid exposure to the sun in hot weather.

4.8 Electric wheelchair charging mode

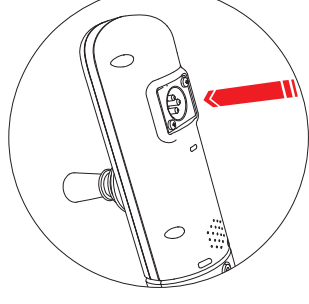


Figure 4.8.1

Charging method I: Connect the charger and plug the charger plug into the upper controller for charging;(As shown on Figure 4.8.1)

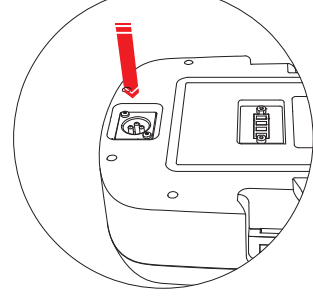


Figure 4.8.2

Charging method II: Take out the battery, plug the charger plug into the charging port of the battery to charge;(As shown on Figure 4.8.2)

5.3 Instruction of safety warning

Voice prompts	Corresponding scene description.
Enter novice mode	Press the novice mode button.
Quit the novice mode	Press the novice mode button again.
Alert	Long press SOS key to trigger SOS.
LOCK	It is in default that after the product is locked after it is powered on. Switch non-locking status to locking status.
Unlock	Switch locking status to non-locking status.
Start the remote control	Voice prompt when the remote control or APP Bluetooth is connected successfully.
car has been locked my bluetooth	Press the lock key.
Upgrade	When the APP detects new version, click to upgrade.
Upgrade complete	End of the single-module upgrade.
Upgrading	The equipment is upgrading.
Powering on tone	Press and hold the power-on key for 3s to start the power-on and the power-on sound.
Key tone	Touch the button to produce a prompt sound.
Charging	Charging
Charging complete	Unplug the charger and trigger the voice prompt of charging completed.
breaks open	The band-type brake opens.
Bluetooth connected	Voice prompt when the remote control or APP Bluetooth is connected successfully.
Drive protection	Voice prompt for a drive failure.
Machine protection	Voice prompt for a machine failure.
Rocker protection	Voice prompt for a rocker failure.
Powering off tone	Press and hold the power-off key for 3s to start the power-off and the power-off sound.
Bluetooth disconnected	Voice prompt when the remote control or APP Bluetooth is disconnected.
Upgrade failed	There is something wrong during upgrading.
The horn sounds	Touch the horn button.
Low battery, please charge	Trigger when the power is lower than 20%.
Bluetooth unlocking the car	Press the remote control to unlock.
implementation mode	Long press "⏮" button and "⏭" button 3 seconds to enter the pushing mode, accompanied by the pushing mode prompt.
Exit implementation mode	Shake the rocker to quit the pushing mode.

Table 5.3

5.2 Performance fault table of the electric wheelchair

Fault code	Anomaly status	Fault phenomenon
E1	Key abnormality	The key corresponding function does not work.
20	The rocker ground line is disconnected	The rocker function does not work.
21	The rocker power cord is disconnected	The rocker function does not work.
22	The rocker X-axis is disconnected	The rocker function does not work.
23	The rocker Y-axis is disconnected	The rocker function does not work.
24	The rocker is a non-zero start	The rocker function does not work.
E6	CAN communication is abnormal	The rocker cannot control the driving of the electric wheelchair.
E7	FLASH fault	FLASH device ID cannot be detected and the device cannot work.
82	Left motor Hall fault	The left motor Hall is not connected or faulty, and the motor does not function.
81	Right motor Hall fault	The right motor Hall is not connected or faulty, and the motor does not function.
40	Flat in the electromagnetic brake of left motor	To release the electromagnetic brake handle of left motor, close the electromagnetic brake.
41	Flat in the electromagnetic brake of right motor	To release the electromagnetic brake handle of right motor, close the electromagnetic brake.
80	Low-voltage fault	The motor cannot run.
88	Pre-charge fault	The motor cannot run.
84	Short-circuit fault of lower gear MOS in the right motor	The motor cannot run.
85	Short-circuit fault of upper gear MOS in the right motor	The motor cannot run.
86	Short-circuit fault of upper gear MOS in the left motor	The motor cannot run.
87	Short-circuit fault of lower gear MOS in the left motor	The motor cannot run.
90	High voltage fault	After detecting the high pressure before starting, keep it locked.
91	The left motor phase loss and disconnection fault	The motor cannot run.
92	The right motor is out of phase and disconnected	The motor cannot run.
93	The Left motor and The right motor are out of phase and disconnected	The motor cannot run.
94	The Right motor stall	The motor cannot run.
95	The Left motor stall	The motor cannot run.
96	Left and right motors are stuck	The motor cannot run.

Table 5.2

Scan the QR code to download APP



Banghui Android



Bangbang walking ios

6.0.1 Start search interface

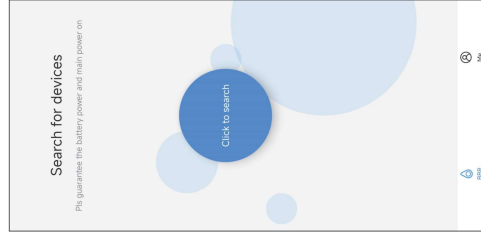


Figure 6.0.1

6.0.2 Request Bluetooth permissions

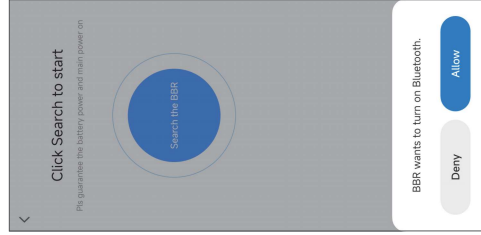


Figure 6.0.2

5.4 Production date and service life

- The service life of this product is 5 years after the product is delivered. Please use within the effective date. In case of expiration, Do not use the product to avoid occurrence of accident.
- Refer to product tag for date of production.

5.5 Product cleaning method

- Cleaning method of electric wheelchair: Wipe with the clean towel inside of the product.

6.2 Remote speed gear control mode for the electric wheelchair

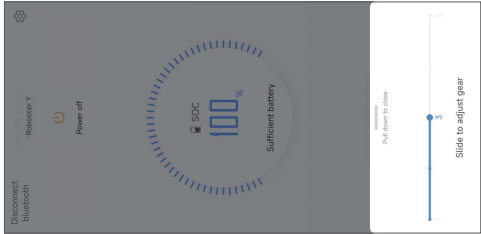


Figure 6.2

6.3 Remote control mode for the electric wheelchair

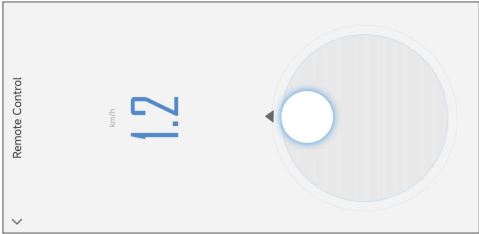


Figure 6.3

6. APP operation guide of the electric wheelchair

6.0.3 Request location permissions

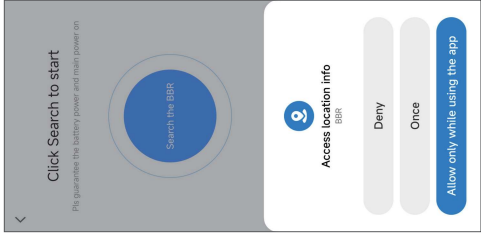


Figure 6.0.3

6.1 Status interface of the electric wheelchair

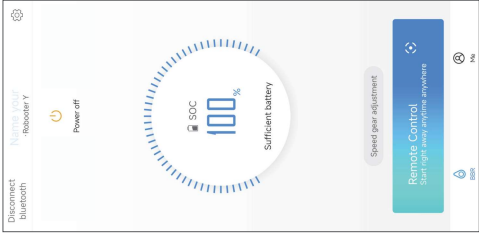


Figure 6.1

6.4 Remote locking mode for the electric wheelchair

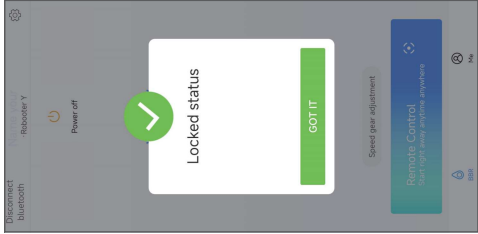


Figure 6.4

6.5 Voice settings for the electric wheelchair

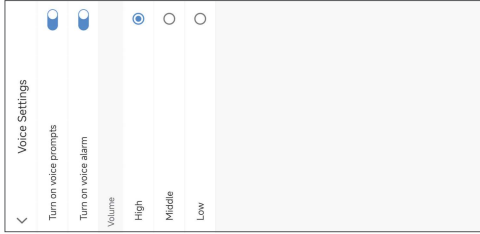


Figure 6.5

6.6 Battery information

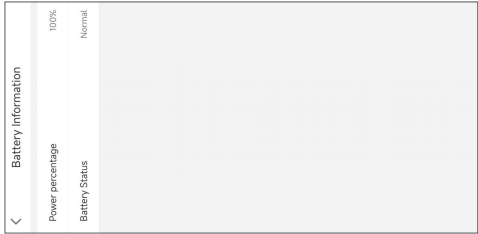


Figure 6.6

6.7 Firmware version upgrade of the electric wheelchair



Figure 6.7

S/N	Material name	Unit	Quantity	Remarks
1	Electric wheelChair	Set	1	Included battery
2	Product Manual	Number	1	
3	Charger	Pcs	1	
4	Toolkit	Pcs	1	Including hexagon wrench, open wrench, screw
5	Clean towel	Pcs	1	

Table 9

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If you think you or someone in your family has experienced a serious reaction to a medical product, you are encouraged to take the reporting form to your doctor.

Your health care provider can provide clinical information based on your medical record that can help FDA evaluate your report.

However, we understand that for a variety of reasons, you may not wish to have the form filled out by your health care provider, or your health care provider may choose not to complete the form. Your health care provider is not required to report to the FDA. In these situations, you may complete the Online Reporting Form yourself.

You will receive an acknowledgement from FDA when your report is received. Reports are reviewed by FDA staff. You will be personally contacted only if we need additional information.

Submitting Adverse Event Reports to FDA 6 of 16 Use one of the methods below to submit voluntary adverse event reports to the FDA:

Report Online at <https://www.accessdata.fda.gov/scripts/medwatch/index.cfm?action=reporting.home>

Consumer Reporting Form FDA 3500B.

Follow the instructions on the form to either fax or mail it in for submission.

For help filling out the form, see MedWatchLearn. The form is available at www.fda.gov/downloads/aboutFDA/reportsmanualsforms/forms/ucm349464.pdf

Call FDA at 1-800-FDA-1088 to report by telephone.

Reporting Form FDA 3500 commonly used by health professionals. The form is available at www.fda.gov/downloads/aboutFDA/reportmanualsforms/forms/ucm163919.pdf



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