

COMFYGO

MOBILITY EQUIPMENT



BC-6011

User Manual / Warranty

Preface

Please read this manual completely before operation, failure to follow the instructions may result in personal injury or traffic accident.

- ◎ This manual contains operations, assembly methods, and simple faults solutions
- ◎ Must read through this manual carefully when following symbols appear.

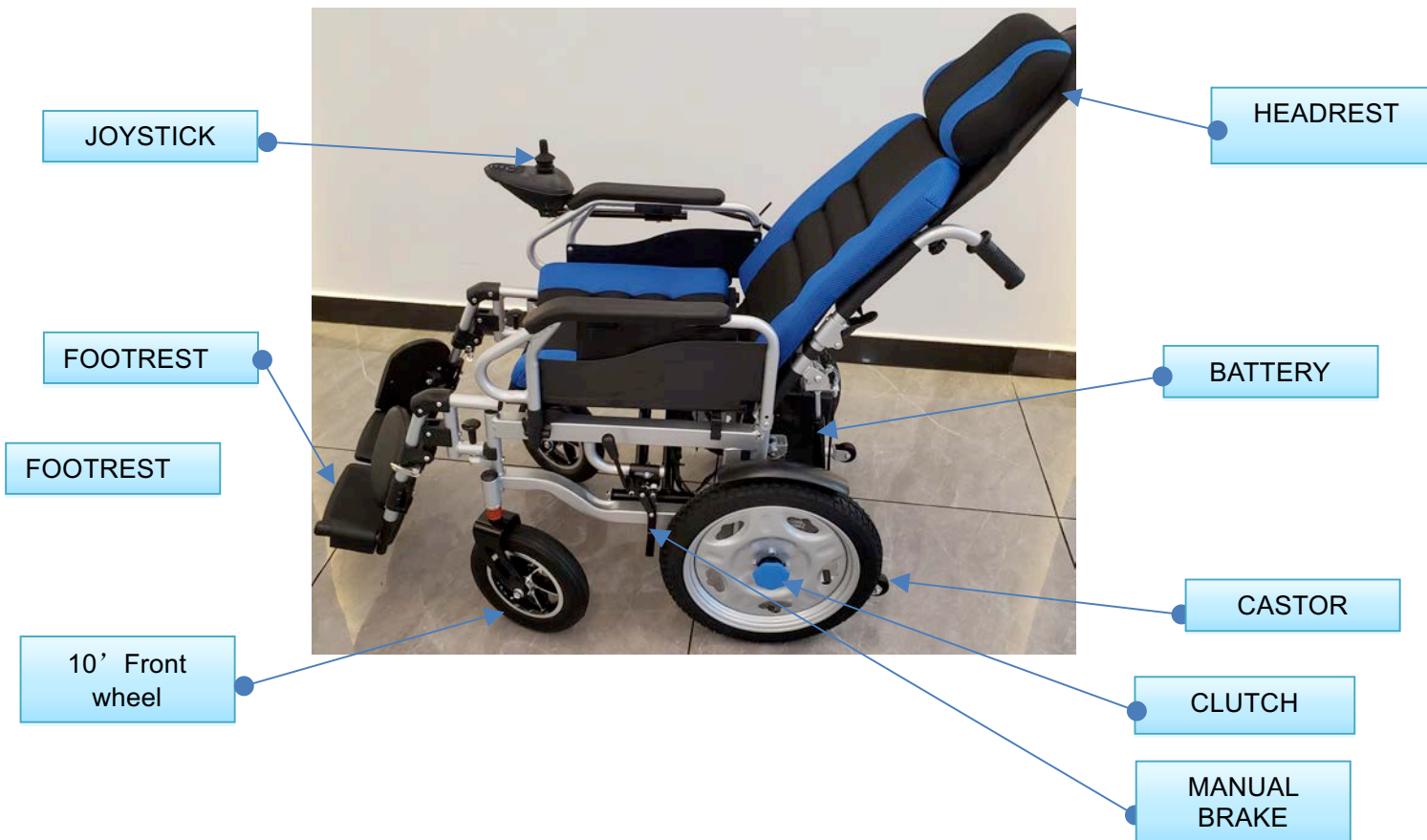
Warning	Improper operation may cause death or serious injury
Caution	Improper operation may lead to injury or wheelchair damage
Advise	Observe all instructions in this manual to keep wheelchair safe

- ◎ This manual contains wheelchair maintenance and self-checking methods, please put it in proper place of the wheelchair.
- ◎ Must provide this manual for reference when other people use this wheelchair.
- ◎ The annotations and illustrations in this manual might be slightly different with the real parts due to quality improvement or changing design. Please in kind prevail.
- ◎ Contact with distributor or our company if there are any ambiguities or question.
- ◎ Please fill in the warranty cards truthfully, confirm the store name and stamp, and properly keep the invoice or receipt.
- ◎ Finish formalities and send warranty card to our company.
- ◎ Improper use of any vehicle may lead to injury, unsafe driving could harm yourselves and others.
- ◎ Please carefully follow our instructions and properly use your wheelchair.

1. Product introduction

1.1 Product images

1.1.1 BC-6011



COMFYGO

MOBILITY EQUIPMENT

Backrest folding lock

Battery connector

battery

motor



Backrest adjustment handle



Backrest adjustment handle

1.2 Product performance

This series of power wheelchairs were powered by battery, drive by DC motor. Users control direction and adjust speed by joystick controller. It is suitable for application of low speed, good road condition and small slope.

1.3 Performance parameters

For more technical data details, please refer to attachment 2.

1.4 Main structure

This series of power wheelchairs are mainly composed of two parts:

- 1) Frame Part: frame , wheel , footrest , armrest, backrest etc.
- 2) Electrical Part: controller ,motor ,battery.

1.5 Application range

Our power wheelchair is for disabled or elderly people to use as walking vehicle, suitable for outdoor middle distance use.

2. Safety

2.1 Precautions for use

- ◇ Classified according to the type of protection electric shock: Internal power.
- ◇ Classified according to the type of protection against electric shock: Type B application.
- ◇ Classified according to the degree of inlet liquid protection: IPX3.
- ◇ Classified according to the safety of use in a flammable anesthetic mixture with air or gas mixed with oxygen or nitrous oxide flammable anesthetic gases occurs: Non AP/APG type.
- ◇ Classified according to operation mode: Continuous operation.
- ◇ Rating voltage: DC.24V .
- ◇ Have no a protective effect on the application of defibrillator discharge section.
- ◇ No signal output or input part.
- ◇ Non-permanently installed equipment.

2.2 General driving cautions

- ◇ Please keep your hands on the armrest to control the wheelchair and confirm no obstacles ahead.
- ◇ Before get used to driving the power wheelchair, please practice in parks or other safe open places.
- ◇ Fully practice driving in a safe place, to master principle of moving forward, stopping and turning circles.
- ◇ At beginning driving on the road, please accompanied by caregivers and confirm that condition is safe.
- ◇ Please strictly follow traffic rules of the pedestrian, do not regard yourself as vehicle driver.
- ◇ Please drive on the sidewalk and the zebra crossing. Driving by right side when without sidewalks, do not drive on vehicle lane.
- ◇ Steadily drive, to avoid driving in 'Z' line or sharp turn.
- ◇ Please keep pressure of pneumatic tire properly, the abnormal tire pressure may cause unsteady driving or excessive loss of current.

2.3 Accompanied by caregivers or avoid driving in these conditions

- ◇ Driving in bad weather (such as rainy day, heavy fog, strong wind, snow etc.).
- ◇ In case of wheelchair is wet out, wipe the water immediately.
- ◇ Driving on the bad road condition (such as muddy, trail, sand road, gravel etc.) .
- ◇ Driving on crowded road.
- ◇ Driving on no fence side ditch, pond, etc.
- ◇ Across the railway.
- ◇ When you have to across railway, pause at turnoff to confirm condition is safe, and make sure that the tires will not be stuck by railway, keep right angles to cross the railway.
- ◇ The power wheelchair is only for personal use, do not carry people or goods, and do not for a traction purposes.

2.4 Precautions for uphill and downhill

- ✧ Avoid driving on following places: steep hill, tilt place, high steps, channel etc.
- ✧ Avoid driving on steep slope, the slope range should be less than 9 degrees. Please very carefully operate the controller when drive on the slope.
- ✧ Keep moving forward during uphill or downhill.
- ✧ Slow down speed during downhill.
- ✧ Avoid driving sideways on the steep.
- ✧ Forbid driving on the stairs place and avoid crossing high steps.
- ✧ Avoid crossing a certain wide ditch.
- ✧ During crossing ditches, keep right angel between tires and the ditches.

Warning

- ◆ Do not set the wheelchair to manual mode during uphill and downhill.
- ◆ When the wheelchair is malfunction at traffic crossing, please immediately ask passerby for help, and set wheelchair to manual mode, or get away from the site to a safe place immediately.

2.5 Precautions for the caregivers

- ✧ Caregivers should confirm users' foot are on the footrest proper position and ensure clothing does not attach to the wheels.
- ✧ Caregivers should push the wheelchair to move forward to keep safe on steep slope or long slope.

2.6 Other notices

2.6.1 Repair and reform

If the repair and reform is necessary, please contact with our service center, do not modify by yourself, it may lead to accident or malfunction.

2.6.2 Protect environment

In order to protect environment, do not casually discard the abandoned power wheelchair or scrapped battery, please contact with your local electric bicycle service center, pay proper money for replacement of new battery.

2.6.3 Keep the storage environment dry

Do not storage power wheelchair in damp condition, such as: nearby bath room. If wheelchair got wet in the rain, wipe the water immediately.

Notice

- ◆ Before confirmed by our company, do not replace parts or material randomly.
- ◆ Do not add weight randomly, in case to cause imbalance.
- ◆ Do not use other vehicle to pull or push the wheelchair when somebody sits on the wheelchair or the wheelchair is in manual mode.
- ◆ When there is abnormal sound, contact service immediately.

2.7 Service lifetime

The service lifetime is 5 years from date of manufacturer. Customers do not overuse more than service lifetime, in case of unpredictable accident.

2.8 Protection from electromagnetic interference

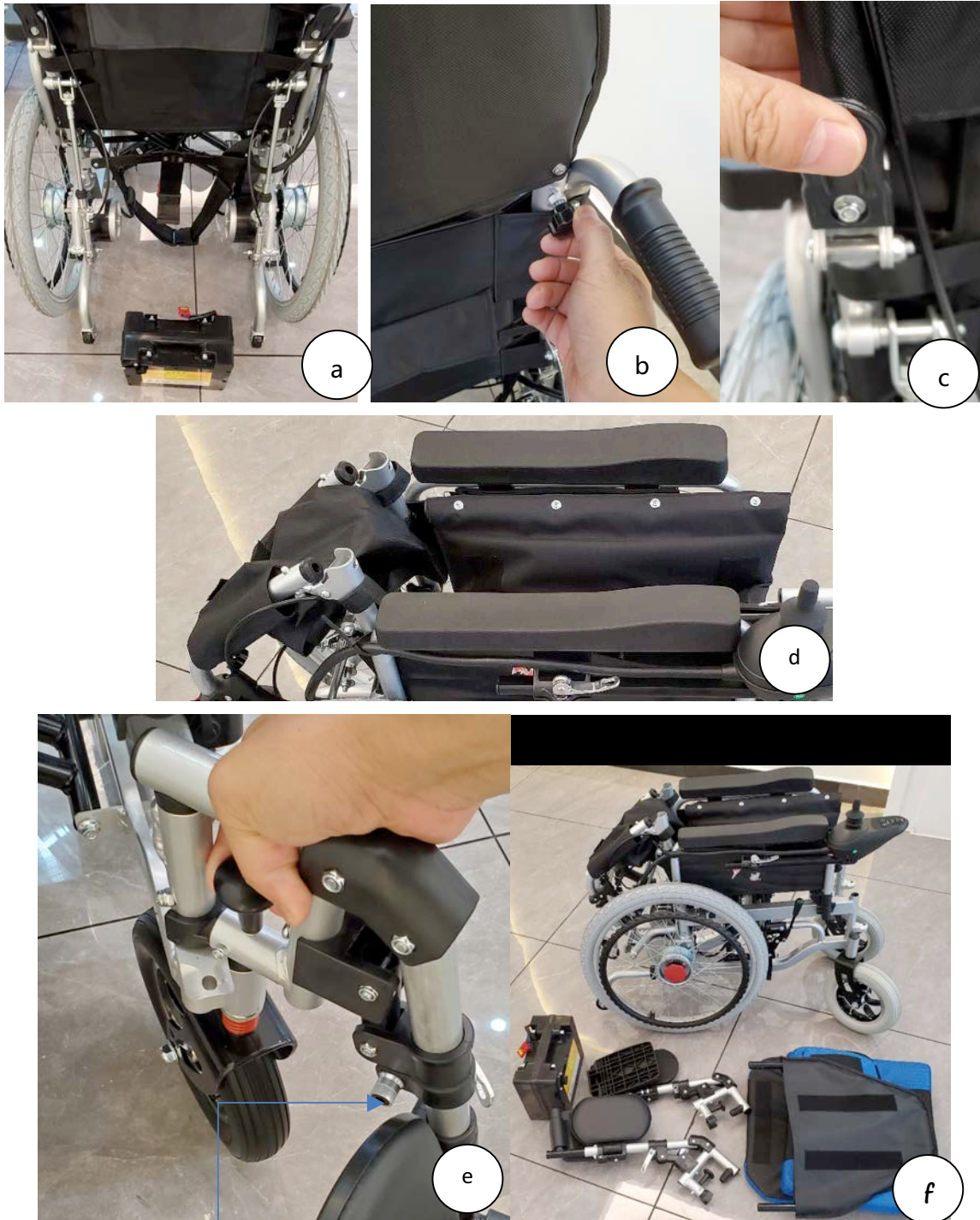
The wheelchair should away from strong magnetic fields and large inductive electrical equipment, such as radio station, TV station, underground radio station, radio, cell phone transmits radio station. Pay attention that if there are sources of electromagnetic interference nearby, as far as away from those sources to avoid electromagnetic interference. The power wheelchair should avoid electromagnetic interference.

3. Unfold, fold and adjustment of wheelchair

3.1-Fold and unfold of wheelchair

3.1.1-Fold wheelchair

- 1, Lift up the cushion strongly by hand .Take off the battery and unplug the red plug (as shown in picture 1a)
2. Unscrew the screws on the headrest bracket, then pull out the headrest bracket. (picture 1b)
3. Pull the joint switch backward, meanwhile back off the handle (as shown in picture 1c and 1d) ;
4. Disassemble the footrest: pull out the plug on the controller under the seat. Lift the bolt on the footrest and turn 45° outside. Then pull out the plastic pole from the tube.(picture 1e)
- 5, folding power wheelchair is done (as shown in picture 1f.



Picture 1

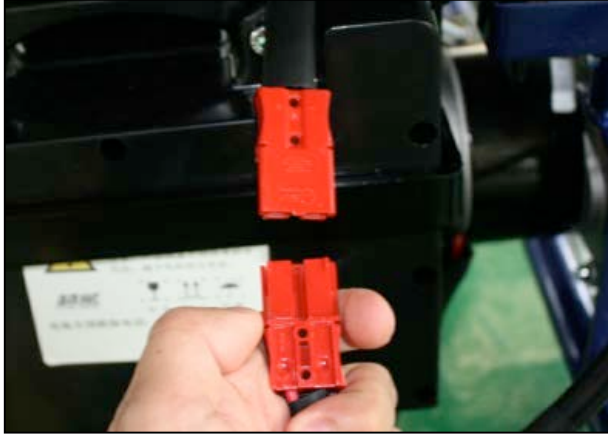
Pull out the plastic pole from the tube

3.1.2 Unfold wheelchair

Wheelchair in a semi-stretched state, turned up both side handle to hear a click sound, and check there's no shaking.

3.2 Connect wire line

Connect the battery box's plug to controller's plug as shown in picture2



picture 2

3.3 Adjustment of joystick



Adjust the controller to perfect position by screwing the nut counterclockwise (picture3).

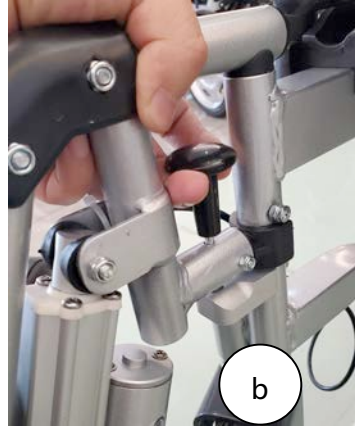
Screw tight the nut when adjustment is done.

picture3

3.4 Assemble and disassemble the foot stand

As shown in picture 4a, install the foot stand into the frame tube, and move from outside to medial to the fixed position;

For disassemble, push the plastic part to outside then lift up foot stand as shown in picture 4b.



Picture4

3.5 Adjustment of castor



Adjust castor angle by unscrew the nut.

As picture 5

picture5

3.6 Use of manual brake



picture6

As shown in picture 6, push hard the manual brake forward to stop the rear wheel, then the wheelchair will stop moving; release the handbrake, wheelchairs will be back to normal driving status. The users can select manual mode or power mode according to their needs.

3.7 Switch between manual mode and power mode` \

- Turn off power or brake the wheelchair first, then pull the clutch out of the groove and spin it, wheelchair will change to manual mode. (Picture 7)
- Spin the clutch and put it back to groove, lightly push the wheelchair to hear a click sound, the wheelchair back to power mode. (Picture 8)



picture7



picture 8

Warning

When changing from manual mode to power mode, please confirm both side clutches are inside the grooves. Any side clutch is not fully into groove, may cause danger of rollover.

4. Battery and charger

4.1 Charger requirements

The charger is used for battery charging. During power wheelchair is being charged, do not use it.

The charger should meet following requirements

4.1.1 Charger technical data

Input voltage: AC 220V Output voltage: 24V/DC Output current: 2A for 12 AH ,3A for 20 AH,

4.1.2 The battery box's plug is squared three-pin, liquid inlet protection class is IPX1

4.1.3 The charger should meet requirements of GB 4706.1-2005 and GB 4706.18-2005.

4.2 Use of charger

In order to charge the battery, connect one end of the charger plug with power supply, and connect the other end with battery box's plug, as shown in picture 9. Doing as following instructions to complete charging process:

First step: Make sure the charger groove is not blocked.

Second step: Make sure the power wheelchair is power off.

Third step: Unplug the plugs that connect the battery box and controller.

Fourth Step: Connect the charger's output plug to the battery box's power plug.

Fifth step: Connect the charger's main plug to the power supply and the red light will be on , fully charge needs 8 to 10 hours, do not overcharge more than 24hours.

Sixth step: Please charge the battery at least once per month when the wheelchair is not being used to prevent cut short battery life.



picture9

Precautions

1. Do not stop charging until charge process is finished. Repeat using the battery in the not fully charged status will shorten the battery life, so the battery should be fully charged as much as possible.
2. When battery is fully charged, the power indicator will turn to green, do not stop charging before fully charged.
3. After charging is finished, turn off the power supply, if not, the battery will discharge slowly, do not charge more than 24 hours, there is a danger of over-charging.

5. The use and maintenance of battery

Wrong operation of replacing battery may cause danger of explosion. Only the same or recommended battery by manufacturer is suitable for replacement, make sure the battery poles are right. Key points for prolong battery life: often charge, to keep battery power being full, better to charge battery in fully status if the power wheelchair is not being used. If stop using for long time, better to charge twice every month.

Warning

- ◆ Please stay away from the flames when charging the battery. The flames may get battery caught fire or explode.
- ◆ Because hydrogen is generated during charging, do not smoking while charging and charge in good ventilation environment.
- ◆ Do not unplug the power supply when the socket or your hands are wet, it may cause electric shock.

During charging, do not use or sit on the power wheelchair, in case unpredictable accident will happen and hurt the user.

6. Controller

6.1 Controller panel



6.2 Turn on power



Press this button, the battery power gauge lights will turn on from left to right.

Cautions

It might shows mistake of 'joystick not in middle' if turn on the power when joystick not in middle position. Release the joystick to middle, this mistake will stop.

This function is to avoid dangers when joystick not in middle.

warning

- ◆ After release joystick the mistake is still exist, may this part is malfunction, do not use and contact with service center for maintenance.

Warning

- ◆ In some emergency, you can directly turn off power by press power button.

6.3 Turn off power



Press the power button all the LED lights are off.

6.4 Sleep mode

If the joystick has no any operation for more than 20 minutes, the power turned off automatically, and the system in the sleep mode, system will be waking up from sleep mode by press power button.

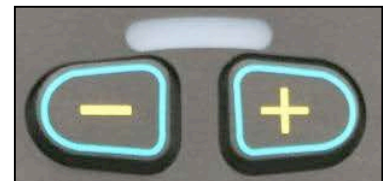
6.5 Adjusting speed

According user's habit and their environment, power wheelchair speed can be adjusted, the speed meter shows the maximum speed, adjusting speed just by press decrease button or increase button.

Speed is divided into five sections, ranked by maximum speed of 20%,40%,60%,80%,100%.

First gear of speed: normal is maximum speed of 20%.

Fifth gear of speed: normal is maximum speed of 100%.



6.6 Horn button



Pressing the horn button will sounds until you release.

6.7 Battery electric power gauge



After the power wheelchair is turned on power then the battery power gauge is works, the battery power gauge also shows the remaining estimated power value.

As the picture shown the battery power is full.

Only the red or yellow LED light is bright, the battery need charge. For a certain long

distance driving, the battery should be fully charged. If only the red LED light is bright, the battery power is extremely limited, need charge immediately.

6.8 Use of joystick



The power wheelchair moving direction is controlled by joystick. The extent of operating joystick is also determined speed.

Notice

- For the safety considerate, the power wheelchair turned on power at first time, the extent of operating joystick will be ignored. The speed meter is twinkling, is shows a error of the joystick is not in the middle direction when turned on the power.
- Release the joystick and return the middle position this error is solved.

7. Maintenance and self-checking

Maintenance of power wheelchair including: clean power wheelchair, check tire and battery, and charge battery, for further maintenance please contact with service center. Our maintain suggestions: the power wheelchair checked every half year, annually overhaul.

7.1 Clean power wheelchair, tire, and battery maintenance

7.1.1 Clean Power wheelchair

Please clean the power wheelchair regularly.

Cleaning the parts that frequently touched with user's body (such as set cushion, armrest, controller) by a clean and slight wet cloth. Do not use organic solvents to clean.

If patient user, the power wheelchair should be cleaned once weekly. If the power wheelchair is used by infectious person should be cleaned and disinfected by disinfectants.

7.1.2 Tires

Checking the tires' air pressure and their wear condition regularly, the tread pattern depth reduce to one 1mm need change new tire.

7.1.3 Battery

Makes sure battery is fully charged frequently, in order to prolong battery life, we are strongly recommend not charge until battery totally no power.

7.2 Power wheelchair malfunction and self-checking

The power wheelchair malfunction is during working, before check, please turned off the power.

Symptom: of completely lost power is all the LED lights that on the controller panel off.

Check step :

- ◆ Checking the controller's plug connecting if is loose.
- ◆ Checking the controller's plug connector that connect with battery box if is loose, please reinsert this plug connecting(holding the plug connector unplug, do not holding wire for this action, to avoid unnecessary damage to the wire line). After above checking still not restore the power, or if have any question for above checking, please connect with service center immediately.

Notice

The controller install a diagnosing system that monitor the controller, motor, if those parts have any malfunctions is showed to the controller. For more details please kindly refer to chapter of self-checking list.

7.3 Maintenance check

The following is checking list, power wheelchair was ordinal checked by followed our suggestion. When you get on or off the power wheelchair, some self-checking is done automatically. For more your attention, we are particularly list these self-checking items in A area.

A area	<p>Before every time use, to check following parts are placed properly.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1.Backrest</td> <td style="width: 50%;">4. Foot stand</td> </tr> <tr> <td>2.Armrest</td> <td>5. Clutch for conversion manual mode and power mode</td> </tr> <tr> <td>3.Controller position</td> <td>6. Checking the power status of the controller</td> </tr> </table>	1.Backrest	4. Foot stand	2.Armrest	5. Clutch for conversion manual mode and power mode	3.Controller position	6. Checking the power status of the controller
1.Backrest	4. Foot stand						
2.Armrest	5. Clutch for conversion manual mode and power mode						
3.Controller position	6. Checking the power status of the controller						
B area	<p>Check the following parts monthly, to avoid original parts loose or wear out</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1.If screws are loose</td> <td style="width: 50%;">2. Brakes</td> </tr> <tr> <td>3.Clutch for manual mode and power mode</td> <td>4.The tires and their tread pattern depth</td> </tr> <tr> <td>5. Connectors' for controller and charger</td> <td></td> </tr> </table>	1.If screws are loose	2. Brakes	3.Clutch for manual mode and power mode	4.The tires and their tread pattern depth	5. Connectors' for controller and charger	
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3.Clutch for manual mode and power mode	4.The tires and their tread pattern depth						
5. Connectors' for controller and charger							
C area	<p>For considering safety, a overall maintenance must be needed semiannual.</p>						

8. Warranty

8.1 Warranty contents

- Our goal is to ensure you are delighted with your purchase.

- According to our warranty agreement, All new products have a limited warranty. All batteries have a six month warranty. Spare parts have a one year warranty. The limited warranty does not include: labor or device failure due to owner misuse or negligence, non-durable components and components subject to normal wear and need replacement from time to time (for example rubber materials, accessories, wheels or brakes, and plastic parts). All warranty claims require proof of purchase and the serial number.

Note that your warranty does not cover in these conditions:

- Functional problems: Issues related to normal use and aging such as surface coating and plating, natural fading of resins
- Replacement of consumable materials due to wear and tear, such as tires, fuses, plastic parts, glass parts, lubricates etc.
- Any fees for Inspection, adjustment, adding oil, cleaning, etc.
- Fees for service and maintenance performed dealers as specified by our factory
- Any unauthorized modifications
- Maintenance costs at any unauthorized service centers
- If you fail to regularly check the issues as specified in this manual section 7
- Improper or wrong maintenance
- If unauthorized maintenance has been performed
- Operating differently than what is described in our manual or if you overload the wheelchair
- Any unauthorized modifications to the wheelchair
- External factors such as: soot, pharmaceuticals, bird droppings, acid rain, flying stone, metal powder, etc.
- Natural disasters such as: typhoons, floods, fires, earthquakes etc. damaging the unit

Protect the Environment

- Please do not dispose of this wheelchair or its components and especially the batteries. Instead,

please return them to our service center or follow your local disposal regulation.

8.2 Warranty does not cover these conditions

- ⊙ Subjective impression, no function problems.
- ⊙ Usage and aging loss (coating and plating surface, nature fade of resins, etc.).

8.3 Not applicable when following happens

- ⊙ Not regularly check our specified issues.
- ⊙ Improper or wrong maintenance.
- ⊙ Different operation with our manual or overload
- ⊙ Unauthorized modifications
- ⊙ External factor such as: soot, pharmaceuticals, bird droppings, acid rain, flying stone, metal powder etc.
- ⊙ Natural disasters such as: typhoons, floods, fires, earthquakes etc.

8.4 The following fees are not covered.

- ⊙ Replacement of consumables material such as tire, fuse, plastic parts, glass parts, lubricates etc.
- ⊙ Fees for Inspection, adjustment, add oil, cleaning, etc.
- ⊙ Fees for regularly check that specified by our factory.
- ⊙ Unauthorized modifications.
- ⊙ Out authorized service centers maintain costs.

8.5 Customers pay attention following cautions

In order to the warranty is valid, customers have obligation to follow below cautions:

- Correctly testing and driving the power wheelchair as manual instructions.
- Daily checking. Implementing the check tips that suggested by our factory.

8.6 Warranty acceptable

If warranty is needs, please take the power wheelchair and show after sales service card to our service center enjoy the service, if the user can't provide the after sales service card the service is not acceptable.

8.7 Protect environment

In order to protect environment, Every damaged or scraped part of power wheelchair , should be backed to our factory or handed over to State Department disposed, do not threw randomly.

8.8 Warranty valid

- ⊙The after-sales service card is valid from stamped date.
- ⊙Normally, the warranty is one year.
- ⊙Consumable parts (such as: battery set cushion, tires, side board, armrest cushion etc.) are not under warranty range.

Notice



During the warranty period, the maintenance is free. Over the warranty period the maintenance should be charged, the exact charge fees depend on situations and consult the service center.

9 Explanation for graphics, symbols and abbreviations



Part B applications

IPX3 The product's protection against inlet noxious liquid degree is IPX3, for more details please refer to documents with power wheelchair.

10 Condition for transport and storage


- ✧ During transport and storage, the power wheelchair should be correctly placed as labeled indication.
- ✧ Transportation should be avoided moisture and sunlight and away from heat resource.
- ✧ Storage should be avoided getting rain and placed outdoors or moisture, in case of electric parts are damaged due to damp.
- ✧ Storage condition
 - Environment temperature $-40^{\circ}\text{C} \sim +55^{\circ}\text{C}$;
 - Relative humidity $\leq 80\%$;
 - Air Pressure $86\text{kPa} \sim 106\text{kPa}$.

makes life easier

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