

**Featherweight Scooter - Lightest
Electric Scooter 37 lbs.
Owner's Manual**



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1. Preface

First of all we want to thank you for putting your trust in us by selecting one of our scooters.

Our company has been continuously researching and accumulating experience in scooters for many years. In the development stage, special attention is paid to the safety and applicability of use. The expected lifetime of your scooter is strongly influenced by the daily care and maintenance of the scooter.

This instruction manual will help you get acquainted with the operation of your scooter. The following use and care instructions are an integral part of using the scooter. This manual reflects the latest development of the product, but in case of product improvement, this manual will be changed again, please understand it.

Your safety is the most important for us. Before you use the scooter,

Please read this instruction manual carefully, which plays an important role in your safe operation. Under the normal use and correct maintenance according to the instruction manual, the manufacturer provides warranty service. The manufacturer is not liable for damage caused by the lack of or improper service or as a result of not following instructions from this manual.

With the improvement of the design, some illustrations and pictures in the instruction manual do not match the scooter you purchased, the manufacturer reserves the right to improve the products and introduce the changes.

Hope the scooter can bring more convenience to your life. At the same time, we also look forward to your valuable suggestions on the quality and after-sales service of our scooters.

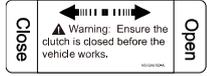
2. Dos and don'ts

2.1 Open-package inspection

Please check if the main frame and accessories are missing, If any damage or lack, please contact the dealer or the manufacture in time.

- Scooter*1pc
- Armrest*1pair
- Shelf for kettle*1pc
- Instruction manual *1pc, product qualified card*1pc, warranty card*1pc

2.2 Explanation of symbols

 Warning	Indicates that personal injury may occur when misused
 Caution	Indicates that personal injury or item damage may occur when misused
 Mandatory	Indicates it must be obeyed
 Prohibit	Indicates it is not allowed
	Indicates to open and close the brake.
	Warning: Do not Pinch hands / fingers
	Reading the instruction manual
	The max load capacity

2.3 Safety instructions

 **Warning!**

 **Mandatory:** Please read this manual carefully before use, and check whether the parts are in good condition to ensure your safety.

 **Prohibit:** Do not expose the electrical system of scooter to moisture (such as rain, snow, fog, etc.) at any time. Do not wash the scooter, it will damage the electrical system. If wet, please confirm that there is no fault after drying, then you can use it.

 **Prohibit:** Do not drive the scooter in bad weather conditions, such as rain, snow, fog, strong wind, temperature below 14°F or above 104°F, etc. Driving the scooter under these conditions may damage the electrical system and cause control failure.

⊘ **Prohibit:** Do not drive in deserts, beaches and do not drive on the road that is muddy, ponding, frozen, gravelly or bumpy, etc. So as not to affect the performance of the scooter, avoiding accidents and personal injury.

⊘ **Prohibit:** Users are strictly prohibited from modifying the scooter without the consent of the technician. In the event of an accident, the manufacturer is not responsible for it.

⊘ **Prohibit:** Please do not stick out your body during driving, otherwise it will affect the stability of driving. (Especially on bumpy roads).

⚠ **Caution:** Be careful when driving and parking on sloped roads.

⚠ **Caution:** Be especially careful of vehicles and pedestrians when driving at night and in rainy weather.

⚠ **Caution:** For the safety of you and others, do not give the scooter to anyone who cannot operate it. Do not give the scooter to minors, mentally handicapped, pregnant women or other persons who are not suitable for electric scooter.

ⓘ **Mandatory:** The scooter is used as a means of transportation for the elderly and infirm. According to the traffic rules, a driver's license is not required, but must obey the same traffic rules as pedestrians.

ⓘ **Mandatory:** For safety, do not drive a scooter under the influence of alcohol, fatigue, or confusion.

ⓘ **Mandatory:** If you are taking medication, check with your doctor if the medication could adversely affect the safe operation of your scooter.

ⓘ **Mandatory:** Please check the scooter conditions such as whether the brakes are sensitive, whether the performance is normal, whether the folding and unfolding are in places, and whether the battery is in a state of power loss.

ⓘ **Mandatory:** Before operating the scooter for the first time, please familiarize yourself with the functions of the scooter. Practice forward, acceleration, deceleration, stopping, reversing, uphill, downhill, turning and other operations in a safe place with few people and good ground conditions. Start a trip after mastering the operation.

ⓘ **Mandatory:** For the first trip, please be accompanied by someone familiar with the scooter to ensure safety.

⊘ **Prohibit:** Do not remove the anti-tip wheel.

⊘ **Prohibit:** The scooter cannot be used for carrying or towing goods.

⊘ **Prohibit:** The user needs to sit on the scooter seat and hold two handles with both of hands to operate.

⊘ **Prohibit:** To avoid rollover, don't do Z-shaped driving, don't make sharp turns at high speed and don't move your body sideways.

ⓘ **Mandatory:** Please keep high attention, and slow down to drive more slowly on uneven or soft

surfaces (such as grass), corners, busy streets, shopping centers, and parks and other crowded places.

⊘ **Prohibit:** Do not use wireless communication devices such as mobile phones while driving. Park the scooter in a safe place and turn off the power before using them.

ⓘ **Mandatory:** When moving backwards, please pay attention to the surrounding road conditions and people, then reverse slowly.

⊘ **Prohibit:** When going out of the door or the elevator, please drive slowly. It is forbidden to get up and down the escalator.

⊘ **Prohibit:** When going up and down the slope, please keep high attention to drive straight at a low speed. Do not forcibly cross a slope that exceeds the allowable gradient.

⊘ **Prohibit:** Do not force over obstacles or steps over 2 inches, otherwise the scooter may not be able to go forward, and release the brakes immediately.

⊘ **Prohibit:** Do not cross a trench more than 4 inches wide, otherwise the scooter may not be able to go forward, and release the brakes immediately.

⊘ **Prohibit:** When passing through crossroads, please obey the traffic rules and do not run red lights. When crossing a railway crossing, stop and observe first, and then move slowly at right angles to the railway track to avoid falling into the track groove.

⊘ **Prohibit:** Do not intentionally switch on and off frequently, and do not frequently start or stop the scooter.

⊘ **Prohibit:** Do not lend the scooter to others who have never used or are unfamiliar with the scooter. Do not allow minors to play with switches and throttle control lever of the scooter.

⊘ **Prohibit:** Do not overload. The max loading capacity is 265lbs. And just carry one passenger.

⊘ **Prohibit:** Do not disassemble the battery, motor and controller by yourself. For replacement, please purchase original parts from an authorized dealer (Scooters that have been modified to use non-original parts will not be covered under warranty).

2.4 Intended use

It is used for the adult with mobility difficulties. Only 1 person can be carried and user's weight does not exceed the max loading capacity.

Minors, mentally handicapped, pregnant women and other incapable persons who cannot use scooter are prohibited from using this product.

Limitation may include the following.

- **Hemiplegic or paraplegic**
- **Mental disorder**
- **visually impaired**

2.5 Electromagnetic interference (EMI)

This chapter describes the daily use of the mobility scooter, these instructions are aimed at users and specialist dealers.

We wish to point out that sources of electromagnetic waves (e.g. cell phones) are liable to create interferences. The electronics of the scooter itself could affect other electric appliances too.

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

 **WARNING:** The scooter might disturb the operation of devices in its environment that emit electromagnetic field.

 **WARNING:** The driving performance of the scooter can be influenced by electromagnetic fields (e.g. electricity generators or high power sources).

 **WARNING:** Avoid using any portable TV or radio in the immediate environment of your scooter for as long as it is turned on.

 **WARNING:** Avoid using any transmitter-receiver or cell phones in the immediate environment of your scooter for as long as it is turned on.

 **WARNING:** Check the area for transmitter masts and avoid using the scooter close to them.

 **WARNING:** If involuntary movements or braking occur, turn off the scooter as soon as it is safe to do so.

Interfering electromagnetic fields may have a negative effect on the scooter's electronic systems. These can include:

- Disengagement of the engine brake
- Uncontrollable behavior by the scooter
- Unintentional steering movements

In the presence of very strong or enduring interfering fields, the electronic systems could even break down entirely or suffer permanent damage.

Possible sources of radiation include:

- Portable receiver and transmitter installations (receiver and transmitter with fixed antenna mounted directly on the transmitting unit)
- Transmitting and receiving sets
- portable TV, radio and navigation devices
- other personal transmitting devices
- Mobile medium-range transmitting and receiving devices (e.g. car antennas, with the antenna mounted on the outside of the vehicle)
- Fixed transmitting and receiving sets
- Fixed mobile transmitting and receiving devices
- Fixed radio, TV and navigation systems

Other home devices like CD player, notebook, cordless phones, AM/FM radios, electric shavers and hair dryers, so far as we know, will have no influence provided that they function perfectly and their cabling be in an excellent condition. Please conform to the operating instructions accompanying such electric instruments to ensure trouble free operating of your scooter.

1. Do not operate hand-held (transceivers-receivers), such as citizens band (CB) radios, or turn ON personal communication devices, such as cellular phones, while the powered vehicle is turned ON;
2. Please be aware of nearby transmitters, such as radio or TV stations, and try to avoid coming close to them;
3. If unintended movement or brake release occurs, turn the powered vehicle OFF as soon as it is safe;
4. Please be aware that adding accessories or components, or modifying the powered vehicle, may make it more susceptible to EMI (Note: There is no easy way to be evaluated their effect on the overall immunity of the powered vehicle).

2.6 Transporting the scooter

The best way to transport the scooter is to make sure the scooter's brake handle is released, then it's ready for transport.

If possible, you can also transport the scooter by following the steps:

1. Switch the scooter off.
2. Unfolding the scooter.
3. Lift the scooter.

3. Product description

3.1 product feature

3.1.1 This product is designed to be light and compact, tiller can be adjusted back and forth according to human comfort. Scooter can be manually folded. It can be pulled easily when folded. Equipped with high-performance brushless controller, users can operate it flexibly. The battery is removable for easy charging.

3.1.2 The waterproof level is IPX4, the degree of protection against electric shock is Class B.

3.1.3 The rear geared motor is used to ensure reliable and stable riding.

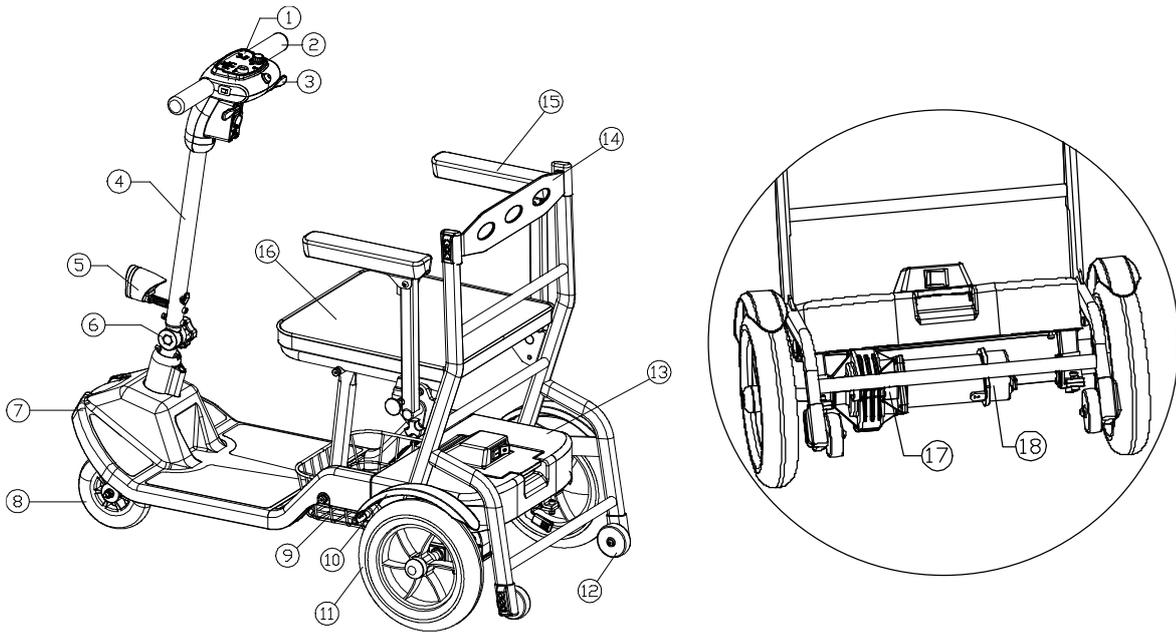
3.1.4 Ergonomic seat design provides sufficient comfort for drivers.

3.1.5 This product is suitable for use indoors and on flat roads near buildings

3.2 Components

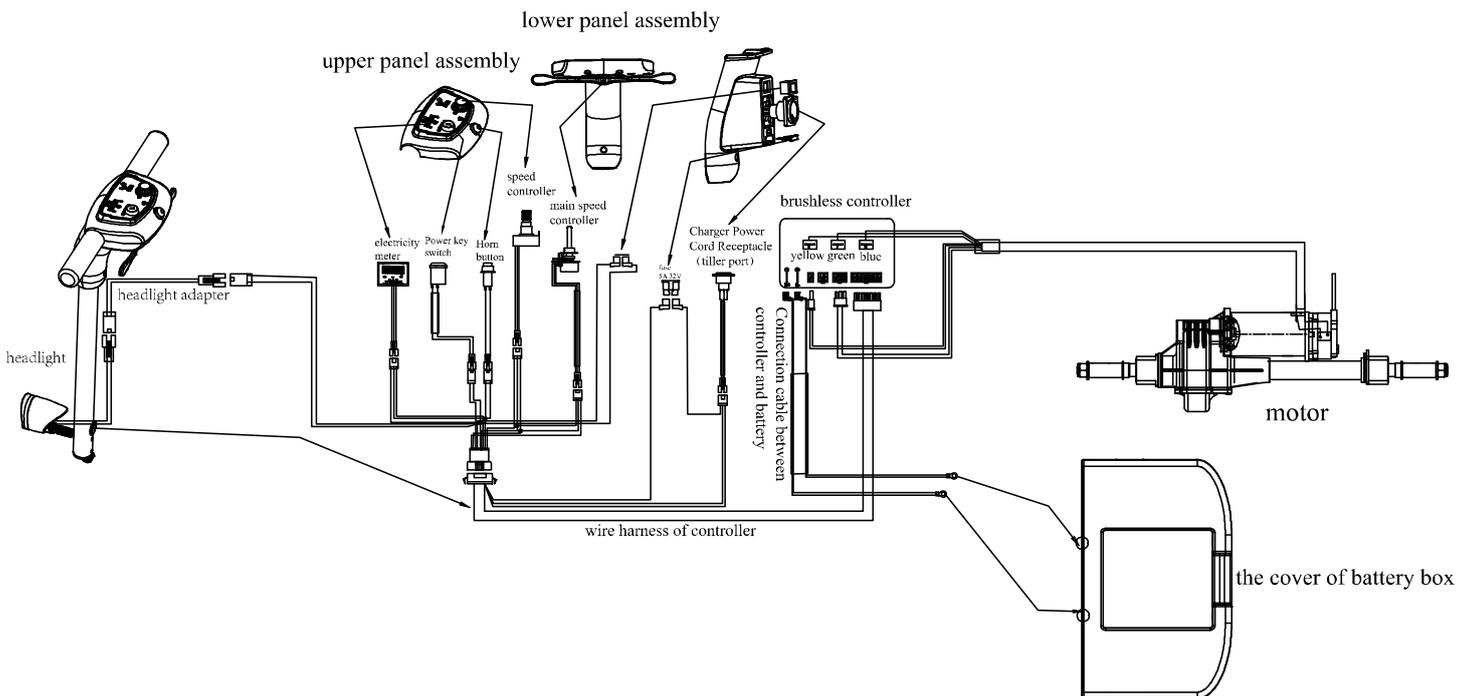
The scooter includes a frame, wheels, seat, armrest, battery, motor and controller.

3.2.1 Components



- 1. Control panel 2. Handgrips 3. Throttle Control Lever 4. Tiller 5. Headlight
- 6. Tiller adjuster 7. Frame cover 8. Front wheel 9. Storage basket
- 10. Rear Fender Panel 11. Rear wheel 12. Anti-Tip Wheels 13. Battery box
- 14. Backrest 15. Arm rest (optional) 16. Seat 17. Transaxle Assembly
- 18. Manual Freewheel Lever

3.3 Circuit schematic



3.4 Technical specifications

MODEL	F2/HS186B
Weight Capacity	265 lbs.
Overall Size	40"x22"x36" (LxWxH)
Size after folding	37.5"x22"x18" (LxWxH)
Front Wheel	6" (plastic hub)
Rear Wheel	10" (solid tire ,one-piece hub)
MAX Speed	3.7-4.3mph
Grade Ability	≤8°
Static stability	0°-10°
Dynamic Stability	0°-12°
Spanning Ability(in)	≤2.5
Travel Range (Max)	7.5 Miles
Turning Radius (Min)	61 in
Ground Clearance	3"
Weight(w/o battery)	37 lbs.
Brake system	Electromagnetic brake
Driving system	Rear wheel (differential) drive
Controller	Intelligent brushless controller
Battery	25.2V/10Ah (Lithium)
Motor power (VA)	120W Brushless motor
Charger	Automatic protective type charger(29.4V 2A)

REMARK: Manufacturer reserves their right to modify the specification if necessary. Measurement tolerance ±0.6 inch/ 2Lbs/ 1.5°.

The final specification is subject to individual scooter you purchased from dealer.

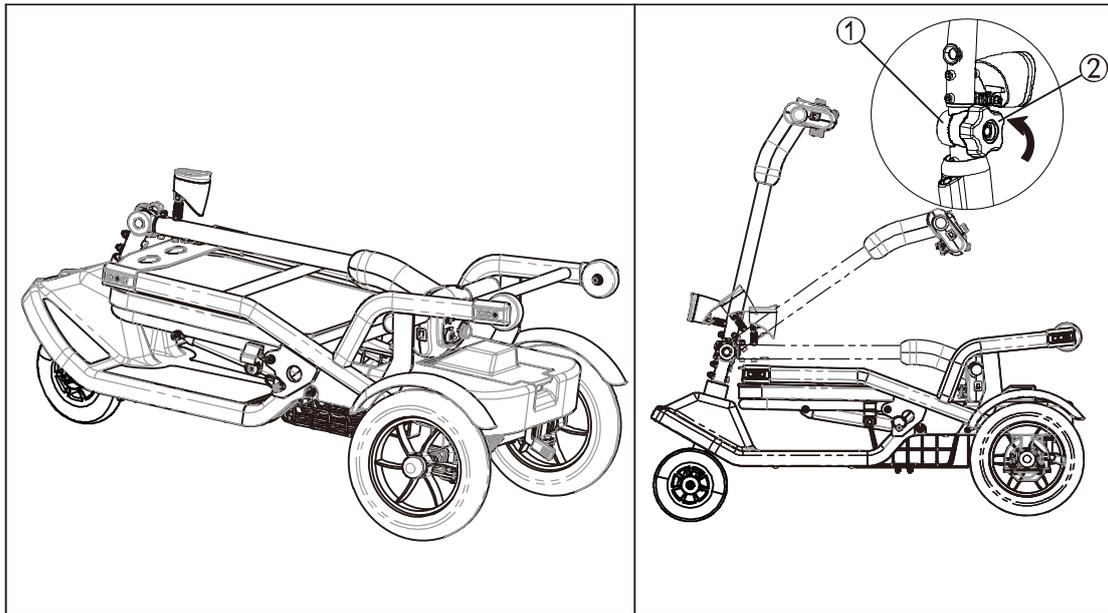
4. Installation and adjustment

4.1 Unfolding and folding the scooter

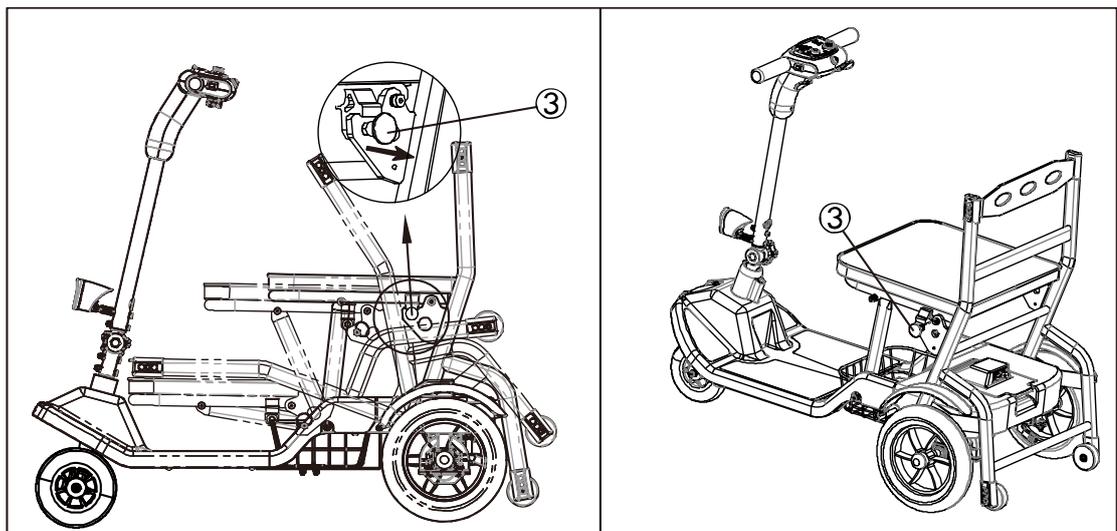
4.1.1 Unfolding

4.1.1.1 Place the scooter on the ground, loosen the knob on the tiller adjuster, adjust the tiller to a certain angle, and then tighten the knob.

(① tiller adjuster, ② knob)



4.1.1.2 Pull the pin(③) out until it comes out of the hole, turn the seat backwards until you hear a "pop", then the pin is automatically locked into the hole, which means that the scooter is fully unfolded. (③ Pin)



⚠ Caution: When unfolding, do not put your fingers into the scissors mechanism to avoid pinching your fingers.

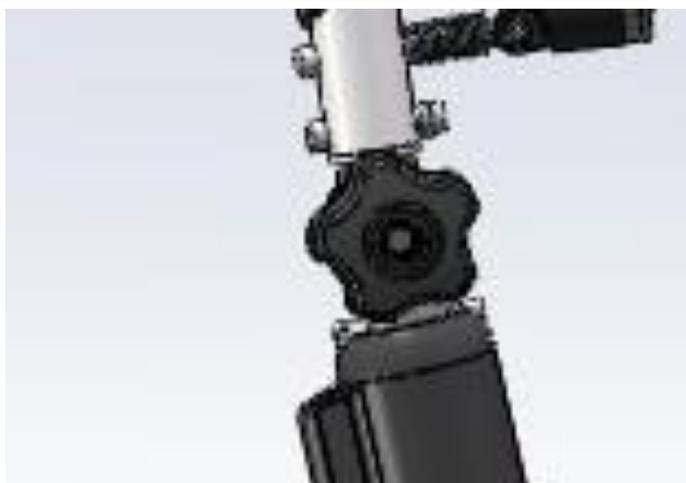
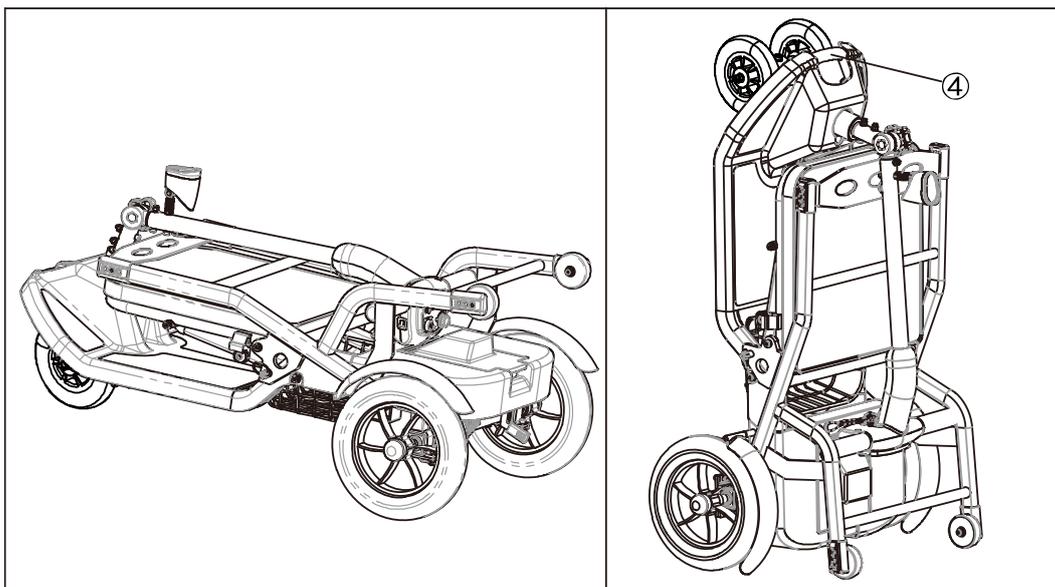
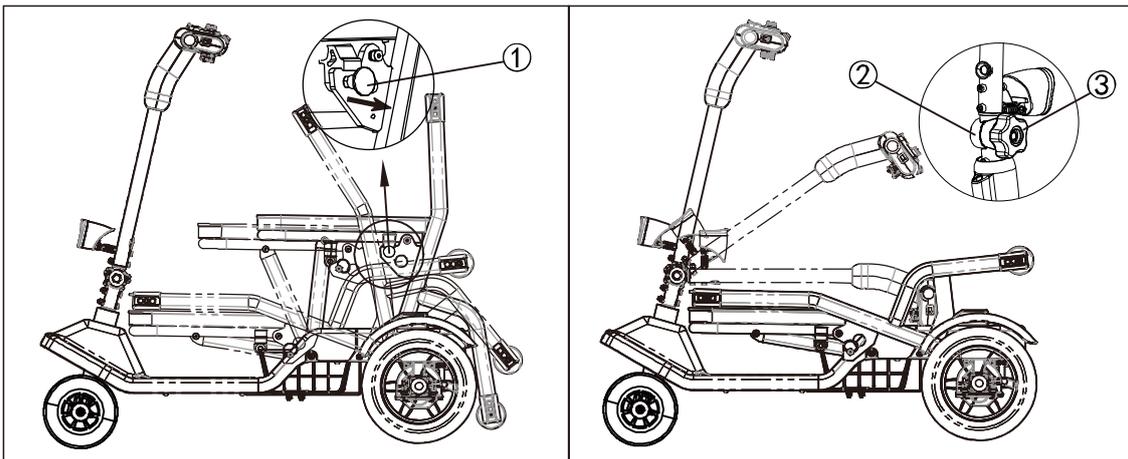
4.1.2 Folding

4.1.2.1 Pull the pin out until it comes out of the hole, the seat can be folded down by flipping it forward, and the seat will automatically lock when it is placed at the bottom. (Pictured as following)

4.1.2.2 Loosen the knob of tiller adjuster, put the tiller down to the seat, and then tighten the knob.

4.1.2.3 Stand up the folded scooter, you can easily tow it.

(① pin ② tiller adjuster knob ③ knob ④ handle bar)

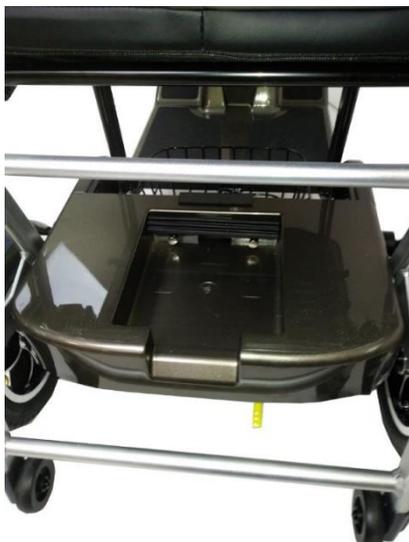
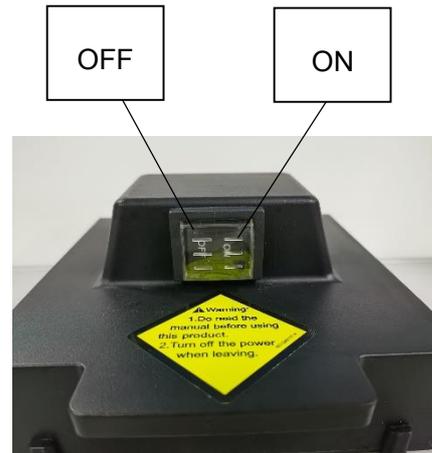
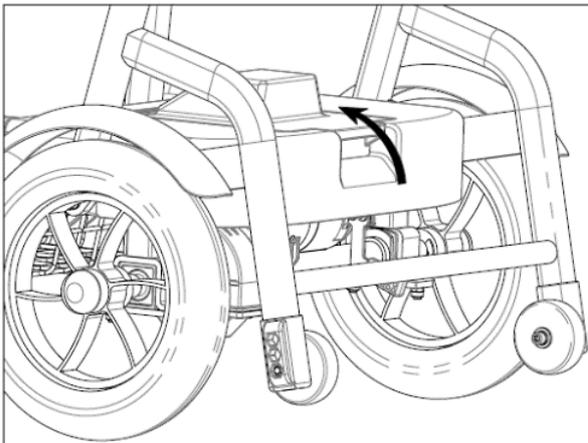




4.2 Mounting and removing the battery

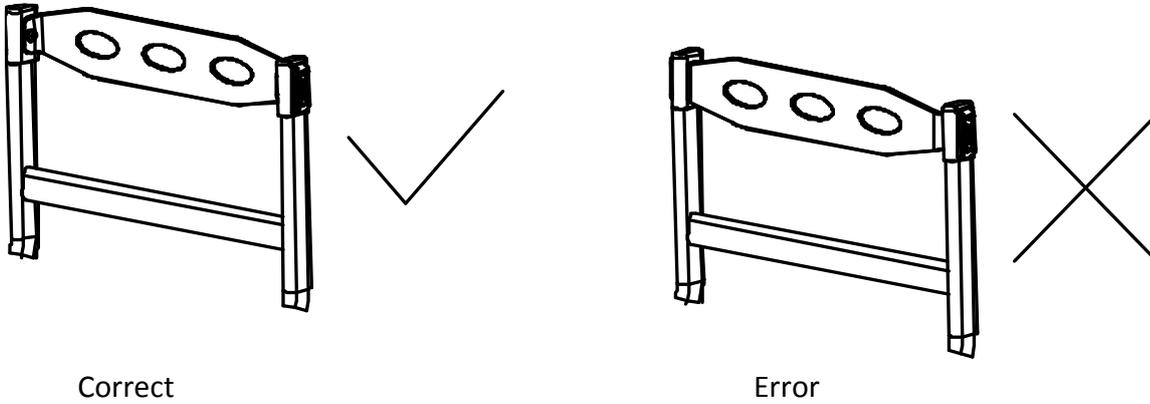
4.2.1 When removing and mounting the battery, please make sure that the switch is in the "OFF" state.

4.2.2 Remove and mount the battery according to the instructions in the picture.



4.3 Adjusting the backrest

4.3.1 Before driving, be sure to adjust the state of the backrest strap. The concave side of the backrest strap should face the back (as shown in the pictures below).



5. Use

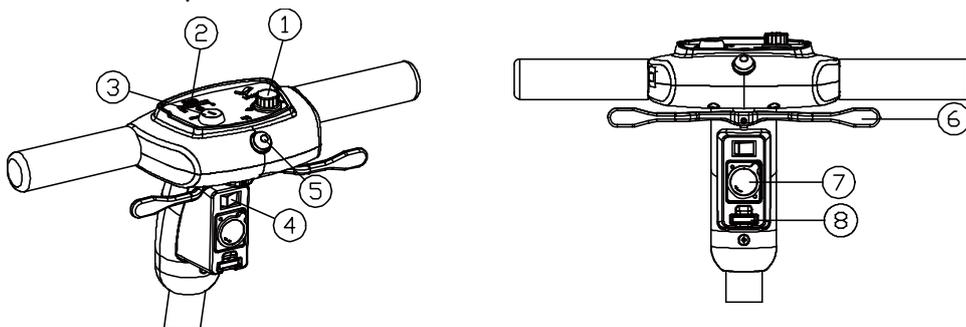
Before you use the scooter for the first time, please read this chapter carefully and deeply understand the various precautions, so as to drive the scooter safely, comfortably and freely, which is very important to you. If any question, please contact the nearest dealer.

5.1 Precautions before operation

Please understand the chapter of "2.3 Safety instructions" before operation.

5.2 Understand the operation interface

5.2.1 Control panel



1. Speed knob 2. Electricity meter 3. Power key switch 4. Headlight switch 5. Horn
6. Throttle control lever 7. Charger port 8. Fuse

5.2.2 The function introduction of control panel

5.2.2.1 Speed knob

The speed can be adjusted by speed knob, the speed range is within 0~4.3m/h. Turn the knob to the far left (turn it counterclockwise to the end) for the slowest speed, and the symbol is the turtle. Turn the knob to the right end (turn it clockwise to the end) for the maximum speed, the symbol is rabbit.

5.2.2.2 Battery gauge

Turn on the switch, the battery gauge will show how much the battery is charged. The green part means the battery is strong, the yellow part means the battery is weak, and the red part means the battery is low and needs to be charged in time.

5.2.2.3 Power key switch

Turn the key to the "ON" position, the power is turned on, and you can drive the scooter.

Turn the key to the "OFF" position, the power is turned off.

 **WARNING: It is forbidden to turn off the power while driving, as this operation will stop suddenly and cause the danger of tipping over.**

5.2.2.4 Headlight switch

Turn on the headlight switch and the headlights turn on.

Press right to turn on the light and press left to turn off the light.

 **Caution:** Do not drive in dark places.

5.2.2.5 Horn button

Pressing the button will sound an alarm. To prevent accidents and damage, please use it promptly.

5.2.2.6 Throttle control lever

Hold the straight handle, push the right throttle control lever forward with the right thumb, and the scooter will move forward. Push the left throttle control lever forward with the left thumb, the scooter will move backwards. The horn will sound a warning sound when the scooter is moving backwards.

When the throttle control lever is fully released, it will automatically stop in the "center" position, and the electromagnetic brake will automatically brake the scooter.

5.2.2.7 Charger port

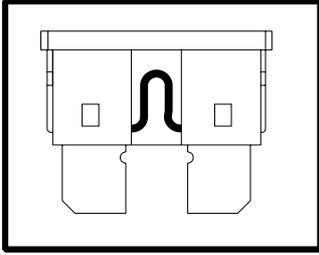
Charge the battery.

5.2.2.8 Fuse

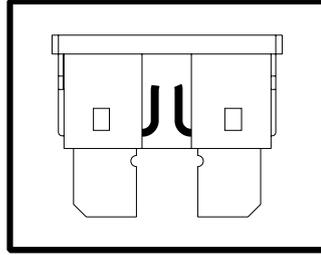
When a short circuit occurs, the fuse is blown to protect the safety of all lines.

Please check the fuse:

1. Pulling the fuse out from the down charging port.
2. Checking whether the fuse was blown or not, as Picture 1 and Picture 2.
3. Replace the blown fuse with new fuse.



Picture 1



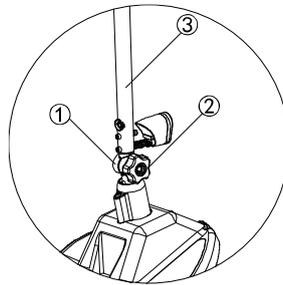
Picture 2

⚠ WARNING: Please make sure the new fuse have same rating with the old one. The electrical system will be damaged with the wrong rated fuse.

5.2.2.9 Adjust the tiller assembly

Loosen the knob on the tiller adjuster, hold the tiller lever to a comfortable angle for driving, and then tighten the knob.

(1.tiller adjuster 2.knob 3.tiller lever)



5.2.2.10 Brake operation

Pushing brake can be used to switch between "electric walking" and "manual walking"

5.2.2.10.1 "electric walking": Pull down the yellow brake handle, it is in a closed state, and it is driven by the motor.

5.2.2.10.2 "manual walking": Push the yellow brake handle upwards, it is in the open state, and the scooter can be pushed to move forward.

If you are ready to start the scooter to move forward, but it cannot drive, and only the alarm sounds, please check whether the state of the yellow brake handle is closed.

⚠ WARNING: It is forbidden that the brake is in opened state when going downhill, and there is no braking effect when entering the open state.



5.3 Tires

The scooter is equipped with air-free solid PU tires, so you do not need to inflate the tires. The manufacturer is not responsible for damage to non-genuine original parts. Please contact your specialist dealer for details.

5.4 Anti-tip wheel

The anti-tip wheel assembly is installed on the back of the scooter frame your safety. It prevents the scooter from tipping backwards, when you step over obstacles that do not exceed the specified maximum height.

5.5 Transfer in or out the scooter

 **WARNING:** Be sure to turn off the power switch and remove the key before getting on or off the scooter.

5.6 Correct position in scooter

Here are some advices for comfortably using a scooter:

5.6.1 Please bring your back as close to the backrest as possible.

5.6.2 Make sure your thighs are level.

5.7 Driving

5.7.1 Start and drive

5.7.1.1 Check that manual freewheel lever must be closed.

5.7.1.2 Turn the power key switch to the "ON" state first.

5.7.1.3 Check the battery gauge to confirm the remaining power of the battery, and charge it when it is low.

5.7.1.4 Adjust the speeder knob to the desired speed.

5.7.1.5 Confirm the safety of the surrounding environment and road conditions.

5.7.1.6 The operation of throttle control lever: Slowly turn the right throttle control lever to control the forward of the scooter, turn the left throttle control lever to control the back of the scooter. Adjust the speed of the scooter according to the forward and backward degree of the throttle control lever.

5.7.1.7 Forward

Hold the straight handle, push the right throttle control lever forward with the right thumb, and the scooter will move forward.

5.7.1.8 Backwards

Hold the straight handle, push the left throttle control lever forward with the left thumb, the scooter will move backwards. The horn will sound a warning sound when the scooter is moving backwards.

5.8 The first driving

 **WARNING:** Take control of your scooter - get used to driving your scooter.

 **WARNING:** Take control of your scooter - do not use both throttle control levers at the same time. This may leave you out of control of your scooter.

 **WARNING:** Take control of your scooter, risk of injury - do not adjust speed while driving.

 **WARNING:** Risk of injury - make sure no people or objects are behind you when reversing.

- Driving

When sitting on the scooter, start the scooter according to the operating instructions, then hold the handle with both hands, and use your fingers to pull the throttle control lever in the desired direction.

Please refer to 5.2.2.6 for details.

- Driving on the sidewalks

The maximum speed on sidewalks depends on the country.

Check the traffic laws of your country.

- Braking

Release the throttle control lever to brake, let it return to the center position, the scooter will slow down and stop. Please practice the braking distance to get used to the scooter. You need to be able to anticipate what will happen to your mobility scooter when driving or braking.

Do not turn off the power switch while driving, otherwise it will cause an emergency stop and may result in accident and injury.

- Driving on curves

 **WARNING:** Risk of rollover - slow down before entering curves or corners.

 **WARNING:** Risk of getting stuck - always keep a sufficient distance from corners and obstacles.

 **WARNING:** Risk of rollover -Please don't do S-drive and erratic driving. In corners and bends, use both hands to turn the handlebars in the direction you want. The front wheels will turn accordingly and guide the scooter in a new direction. This is very important that you should make sure there is enough space for you to pass through corners and curves. It is best for you to start making a big curve

before corners and curves, so that the scooter can keep going straight through as much as possible, when entering the narrowest corners and curves.

 **WARNING:** Do not turn 90 degrees too fast, the rear wheel is likely to hit an obstacle and make your scooter unbalanced.

5.8.1 Backwards

 **WARNING:** Take control of your scooter - get used to driving your scooter.

 **WARNING:** Control the speed - go back as low as possible.

 **WARNING:** Collision hazard - keep looking back when you reverse

Driving backwards requires more attention (left-hand operation). This explains why we should reduce the speed of reversing significantly compared to going forward. We recommend that you adjust the speeder knob to slow down when reversing.

5.8.2 Going uphill.

 **WARNING:** Take control of your scooter - get used to driving your scooter.

 **WARNING:** Take control of your scooter - never leave the scooter on a slope with the manual freewheel lever on.

 **WARNING:** Control the speed - move as fast as possible on the slope.

 **WARNING:** Do not back up when going uphill.

Sitting position when going uphill.

- Lean forward when going uphill.

Do not tip the scooter when going uphill. To avoid tipping over, make sure all wheels are in constant contact with the ground (ramp, driveway, etc.).The scooter is driven by a differential, so the two drive wheels should always be in contact with the ground.

When driving on a slope, the battery indicator light may move left and right. This is normal, please don't worry.

5.8.3 Going downhill

 **WARNING:** Take control of your scooter - get used to driving your scooter.

 **WARNING:** Take control of your scooter - never leave the scooter on a slope with the manual freewheel lever on.

 **WARNING:** Control the speed - move as slowly as possible on the slope.

 **WARNING:** Risk of rollover - avoid sharp turns.

Sitting position when going downhill

- Keep leaning back when going downhill.

Do not tip the scooter when going downhill. Tilt may cause some wheels to no longer maintain contact with the ground (risk of rollover).

The weight of the scooter will increase your downhill speed. Please release the throttle control lever in advance to slow down. And also avoid sharp turns when going downhill, the scooter's own weight can cause your scooter to lift on one side or even roll over around a corner.

5.9 Driving on a slope

-  **WARNING:** Risk of injury--Do not exceed the maximum load of the slope.
-  **WARNING:** Risk of injury---Try to choose a slight slope to avoid any injury or damage.
-  **WARNING:** Risk of injury---When the weight of the scooter produces a huge reaction force, the accompanying person needs to push the scooter up the ramp.
-  **WARNING:** Risk of injury---Make sure wheels are high enough to pass ramps. The scooter frame must not touch the ramp.

To use the ramp to cross obstacles, please note the following:

1. Drive at the lowest speed on the ramp.
2. Please refer to the instructions in the chapter of "The first driving".

5.10 Driving over the obstacles

-  **WARNING:** Risk of injury from accidental movement.
- Don't take the scooter on an escalator.
- Never drive over obstacles and steps over 2 inches.
- Do not drive fast on a slope of more than 5 degrees.
- Do not cross a groove more than 4 inches wide. Drive in a direction perpendicular to the groove surface.
- Do not tilt the scooter.

Make sure all wheels are in contact with the ground when driving up or down.

-  **WARNING:** Risk of damage.

If necessary, do a short acceleration to get over an obstacle. Avoid large reaction forces on your scooter.

 **WARNING:** Take control of your scooter - never leave your scooter with the manual freewheel lever on while driving.

 **WARNING:** Take control of your scooter - never on a slope with your scooter with the manual freewheel lever on, it may roll unexpectedly.

 **Caution:**

(1) Please turn the power switch to "ON" when getting on and off.

(2) Do not operate left and right throttle control levers with both hands at the same time to accelerate.

(3) Do not turn the power switch to "OFF" while driving, it may cause sudden braking and fall.

(4) Please drive at low speed indoors.

(5) Please be careful when driving in crowded and heavy traffic areas.

(6) When reversing, pay attention to the crowds and obstacles behind you.

5.11 Transport

Transport by car: This product can be folded into the trunk of a car.

 **WARNING:** Risk of injury-- The scooter is not suitable for use as a car seat.

 **WARNING:** Risk of injury-- Remove all loose parts before transport.

 **WARNING:** Risk of injury-- No person or object should be under the scooter, and no person or object should be on the pedal or seat.

 **WARNING:** Risk of injury-- Please pay attention to whether you are sitting tightly and close to the scooter, in the event of a collision or sudden braking, passenger injuries can be avoided.

 **WARNING:** Risk of injury-- Do not put your fingers between the parts of the scooter.

6. Lithium battery and charging

Knowing lithium batteries well and correctly mastering the charging of lithium batteries are conducive to prolonging the service life of batteries and reducing the occurrence of accidents.

 **WARNING:** Risk of personal injury or death from fire.

6.1 Lithium battery

6.1.1 If use the scooter every day, please charge it as soon as possible after you use the scooter every time. The charging time should be kept at 8-12 hours to be ready for the next driving.

6.1.2 If use the scooter infrequently (once a week or less), charge it at least once a week. The charging time of the battery should be guaranteed within 12-14 hours.

6.1.3 It is forbidden for lithium batteries to be near fire, immersed in water, overheated (113°F), violent vibration, collision and positive and negative short-circuit.

6.1.4 Please do not charge the lithium battery for a long time, generally not more than 20 hours.

6.1.5 Do not discard the lithium battery at will, please contact the dealer or the manufacture.

6.2 Battery Charging

6.2.1 After use, carefully check the LED with ten-segment on control panel to determine whether it needs to be charged.

6.2.1.2 This electric scooter can be charged with a charger with an output of 29.2Vdc 2A. In order to ensure your safety, please use the special charger for electric scooters provided by the manufacture.

6.2.2 Charging

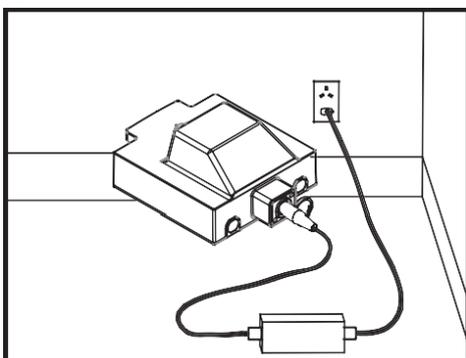
6.2.2.1 The first charge

It is not necessary to charge the battery for the first time. Start charging when the LED shows red. The same is true for the second and third charge. This prolongs the battery life and eliminates the charging memory of the lithium battery.

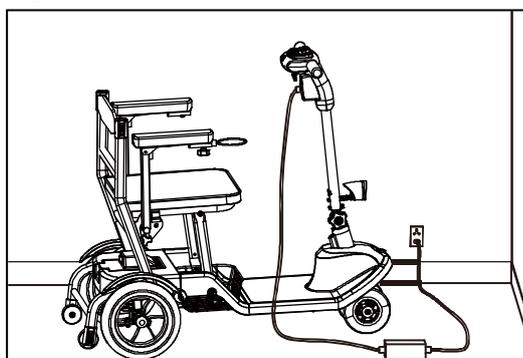
6.2.2.2 Charging

a. Remove the battery box and charge it. (Charging method I)

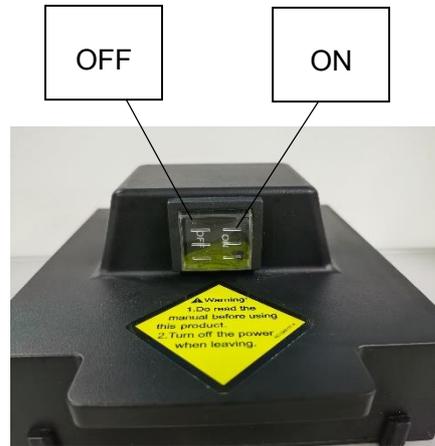
b. Charge at the tiller port on the control panel. (Charging method II)



(Charging method I)



(Charging method II)



⚠ Caution: When charging, the switch on the battery box should be in the "ON" state, that is, charging is performed when the power is turned on.

⚠ Caution: If the lithium battery is fully charged, please check the charging indicator on the charger. You can know about the charger indicator refer to the chapter“6.3 Charger”. The LED with ten-segment does not prove that the battery is fully charged, it should be subject to the charger indicator turning green.

⚠ Caution: To ensure safety, keep away from fire when charging, and do not smoke nearby.

⚠ Caution: Do not touch the plug with wet hands, and do not charge with a wet plug.

⚠ Caution: When charging, avoid rain, dew, and direct sunlight. It is best to charge in a well-ventilated place.

6.3 Charger

6.3.1 Charger

Charger model: HP060WL2

Charger input:100~240vac,50/60hz,1.2~0.5A

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

There are 2 states for the charger indicator.

1. Orange indicator: the power is on and charging.
2. Green indicator: Fully charged.

Please note that the scooter should have safe circuits to prevent driving while charging. If the scooter 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 (14°F~ 104°F) and should not suffer mechanical damage. In all cases, the charger should only be repaired by an authorized dealer or the manufacture.

⚠ Caution:

1. You can only use our original charger. Using other chargers will affect the scooter warranty. Using an unapproved charger can cause serious damage to the battery or the scooter. Using an unsuitable charger can even create a fire hazard.
2. The input voltage of the charger is only limited to the urban electrical frequency voltage. It is

forbidden to use the power frequency voltage higher than the urban electricity.

3. The charger is forbidden to be used in the case of high tide and high heat.

4. The charger has its automatic protection function, and no special care is required when charging. When the battery is fully charged, the charger will automatically stop charging, and there is no need to unplug the charger. However, the charger is not allowed to be connected to the scooter for a long time, generally no more than 20 hours.

5. When the charger is overheated (higher than 158°F), sparks, smoke, etc., the power of the charger should be cut off quickly.

7. Maintenance

7.1 Cleaning the scooter

7.1.1 Seat cushions and backrest covers can be washed with water and neutral detergent once a week;

7.1.2 Other painted parts can be wiped with a cleaning cloth or a disinfecting cloth once a week.

7.2 Disinfecting the scooter

7.2.1 Disinfection of handles and armrests can be done with a cleaning cloth or a disinfecting cloth dipped in 75% medical alcohol, and then dry it immediately, once a week is enough.

 **WARNING:** Risk of injury--Disinfection should only be performed by trained personnel.

 **Caution:**

a) Do not use high pressure cleaners to clean the scooter. Do not splash water on the scooter.

b) Do not use volatile chemical solvents, such as high-concentration alcohol, ether, high-concentration acid or banana water, gasoline, kerosene, etc. Also do not use abrasive waxes, sponges, brushes, etc.

c) Be sure to turn off the power during cleaning, disinfection and maintenance.

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

7.3 Instructions for reuse

7.3.1 Maintenance points

Please review the following before each reuse:

- A. Checking the battery status: Charge the battery.
- B. Wheels/tires condition.

Make sure there are no wires, hair, sands and carpet fibers under the tires.

If tires are visibly worn, contact your specialist dealer for replacement.

- C. Check the control panel and cables for damage such as frayed, broken, or exposed wires.
- D. Check that the tiller is tightened.
- E. Check the seat and back for dents, damage, or tears. Replace them if necessary.

Please contact your specialist dealer for repairs or parts replacement.

Have your mobility scooter inspected and maintained at least once a year or more frequently. The minimum maintenance frequency depends on usage and should be agreed with your specialist dealer.

Make sure your scooter is stored dry to prevent mold growth and damage to the upholstery.

If your scooter is stored for a longer period of time, you will still need to charge the battery weekly.

7.4 Inspection, service and maintenance

7.4.1 Daily inspection

1. Check whether the throttle control lever is deformed or damaged.
2. After turning on the power switch, check if the scooter needs to be charged.
3. Check that the brakes are working before driving.

7.4.2 Weekly inspection

1. Before checking, please confirm that the power is turned off.
2. Check whether the throttle control lever is detached or broken.
3. Wipe the scooter with a soft, damp cloth that has been wrung out, taking care not to wet the electrical system.
4. Check that the throttle control lever can return to the center point, after releasing the lever.

7.4.3 Monthly inspection

1. Check the battery condition and wipe the battery connector if necessary.
2. Check the electrical system and check if the connectors are in good contact.
3. Check whether the fasteners are loose.
4. Check whether the front and rear tires are shaken or cracked or worn.
5. Check that the throttle control lever can return to the center point, after releasing the lever.

7.4.4 Annual inspection : Ask a technician at the dealership to do a thorough inspection of your scooter.

7.5 Reuse

To reuse after a long period of inactivity, please first clean, disinfect and maintain the wheelchair according to the chapter "7.1, 7.2 and 7.3".

Inspection of motors, batteries and chargers

Please check that there is no abnormality or abnormal noise in the motor, and the battery and charger are working normally.

7.6 End of use



The symbol means that your product should be disposed of separately from household waste according the local law and regulations. At the end of the wheelchair life, take it to the designated recycling place. Sorting and recycling will help conserve natural resources, and ensure it is recycled in an environmentally friendly way.

Recycling of each part should be handled by a designated authorized recycling organization in accordance with local laws and regulations. As for plastic parts, frame and pipe parts, they can be handed over to professional recycling units for disposal after the end of use.

8. Transportation and storage

8.1 Transportation and storage

- a) Ambient temperature range: -13°F — 104°F ;
- b) Relative humidity: $\leq 80\%$;
- c) Atmospheric pressure range: $80\text{kPa}\sim 105\text{kPa}$;
- d) Can be transported in general transportation.

9. Common faults and treatment

9.1 Basic Troubleshooting

This table is only a guide to aid you in getting your scooter operating, should you have any problems. If you are unable to get your scooter operating, please contact your Scooter Dealer.

Symptom	Possible	Solution
Scooter does not move	<ol style="list-style-type: none"> 1. Key switch is not "ON" 2. Main circuit breaker tripped 3. Brake release lever in "Freewheel Mode" 4. Charger connected to outlet 5. Battery power low 6. Scooter shuts down to conserve battery 7. Controller error 	<ol style="list-style-type: none"> 1. Turn the key switch to "ON" 2. Reset circuit breaker 3. Place lever in "Drive Mode" 4. Disconnect charger 5. Recharge battery 6. Turn the key switch "OFF", then "ON" 7. Check Power light for Flash Code (See Flash Codes to get a solution)
Range less than expected	<ol style="list-style-type: none"> 1. Charging too infrequently 2. Defective or worn-out battery 3. Cold weather reduces battery life 4. Defective charger 	<ol style="list-style-type: none"> 1. Charge scooter more often 2. Load test batteries. If necessary replace. 3. Allow batteries to reach room temperature and then fully recharge 4. Contact your Scooter dealer

9.2 Scooter Controller Internal Diagnostics

The diagnostic flash codes for your scooter are designed to help you perform basic troubleshooting quickly and easily. A diagnostic flash code flashes from the Power light in the event one of the conditions listed below develops.

Flash Code	Flash Indication	Fault	Effect on the Scooter	Solution
1-5	* * * * *	Battery charge is too low or there is a bad connection	Scooter stops driving	<ol style="list-style-type: none"> 1. Charge batteries. 2. Check all battery wiring connections. 3. Contact your service agent.
3-2	* * * * *	Brake error	Scooter stops driving	<ol style="list-style-type: none"> 1. Ensure the manual freewheel lever is in the drive position and restart the scooter. 2. There is a fault with the magnetic brake or wiring. 3. Contact your service agent.
1-2	* * *	Throttle Pot error (open circuit)	Scooter stops driving	<ol style="list-style-type: none"> 1. The Throttle Pot or its wiring could be faulty. 2. The Speed Pot or its wiring could be faulty. 3. Contact your service agent.
2-5	* * * * *	Throttle Pot error (short circuit)	Scooter stops driving	<ol style="list-style-type: none"> 1. The Throttle Pot or its wiring could be faulty. 2. The Speed Pot or its wiring could be faulty. 3. Contact your service agent.
1-6	* * * * * *	Throttle control lever not at center position when switching on scooter	Scooter stops driving	<ol style="list-style-type: none"> 1. Put the throttle control lever in the central position, turn the power off and then turn on again. 2. Check that the charger is not connected.
1-3	* * * *	Charge inhibited		<ol style="list-style-type: none"> 1. Check the charger and charging socket. 2. Contact your service agent.
1-4	* * * * *	Internal motor sensor error	Scooter stops driving	<ol style="list-style-type: none"> 1. Check the motor connections and current draw. 2. Contact your Scooter dealer.
2-4	* * * * *	Controller error	Scooter stops driving	<ol style="list-style-type: none"> 1. Check all wiring connections including main battery connections. 2. The controller needs replacing. 3. Contact your service agent.

10. Warranty

WARRANTY POLICY:

LIMITED WARRANTY. IMPORTANT NOTICE – TO ENSURE THIS WARRANTY IS VALIDATED IT HAS TO BE COMPLETED AND RETURNED TO 1800WHEELCHAIR WITHIN 14 DAYS OF PURCHASE

10.1 Two-Year Limited Warranty

The main chassis frame is covered by a two-year warranty.

10.2 One-Year Limited Warranty

For one (1) year from the date of delivery, we will replace at our discretion to the original purchaser, free of charge, any part or electronic component found upon examination by an authorized representative of 1800wheelchair to be faulty.

1. Electronic controllers
2. Transaxle
3. Motor & Brake: (electronic function ONLY).
4. Charger
5. Any other electrical sub-assembly

NOTE: If there is an increase in the noise level from the transaxle, the warranty does not apply. An increase in operational noise level usually occurs due to excessive strain on the scooter.

10.3 Batteries

Batteries are covered by a six (6) month warranty from the original manufacturer and a further six (6) month warranty at the discretion of 1800Wheelchair. Note: Gradual deterioration in performance due to batteries being left in a discharged state, left in cold conditions for long periods of time, or worn out through heavy use is not covered.

10.4 Warranty Exclusions

1. ABS plastic shrouds and footrest covers (wear items are not warranted).
2. Tires and Anti-tip Wheels (wear items are not warranted).
3. Upholstery and seating (wear items are not warranted).
4. Motor Brushes.
5. Brake Pads (wear items are not warranted).
6. Fuses.
7. Repairs and/or modifications made to any part of the scooter without specific and prior consent from 1800wheelchair.
8. Circumstances beyond the control of 1800wheelchair.
9. Exclusions also include components with damage caused by:
 - Contamination (rain, etc.).
 - Abuse, misuse, accident, or negligence.
 - Commercial use, or use other than normal.
 - Improper operation, maintenance, or storage.

NOTE: Gradual deterioration in performance because the battery has been left in a discharged state, left in cold conditions for an extended period of time, or worn out through heavy use is not covered by the warranty.

17.5 Service Checks and Warranty Service

This warranty is extended only to the original purchaser. Your original receipt will be necessary as proof of purchase before any warranty performances are rendered. This warranty only covers failures due to defects in materials or workmanship that occur during normal use and does not cover damage that occurs in shipment or failures which are caused by products not supplied by the manufacturer or failures resulting from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, commercial use or by anyone other than an authorized dealer, or damage that is attributable to the acts of God.

The manufacturer reserves the right to alter without notice, any weights, measurements, or other technical data shown in this manual. All figures, measurements, and capacities shown in this manual are approximate and do not constitute specifications.