



**LuXe Mobility X700 Deluxe Sport  
Owner's Manual**



# CONTENTS

**Safety Instructions – pp2-6**

**Electromagnetic Interference (EMI) – p7**

**Technical Specifications – p8**

**Comfort Adjustments – p9**

**Features – p10**

**Getting On & Off the Scooter – p11**

**Operation of Tiller Control – pp12-14**

**Charging Apparatus – pp15-17**

**Battery Instructions & Maintenance – p18**

**Scooter Maintenance – p19**

**Transportation – p20**

**Troubleshooting – pp21-22**

**Warranty – pp23-24**

**Please read this manual carefully before using the scooter for the understanding of necessary precautions and scooter performance. Failure to follow the instructions may lead to scooter damage or serious personal injury**

## SAFETY INSTRUCTIONS

1. Please obey local traffic regulations when using the product.
2. Do not try to refit the scooter without the explicit consent of your dealer, and do not use the scooter for purposes other than what it is intended for
3. If you are feeling dizzy, or your vision is blurred due to a health condition or medication, please do not operate the scooter.
4. Some medications and limitations may impair your ability to operate scooters in a safe manner. You may wish to speak with your doctor if you are taking prescribed medication or have certain physical limitations.
5. Operating this scooter whilst drunk is strictly prohibited.
6. Please check the brake system before driving the scooter.
7. Do not turn the electric switch OFF before the scooter stops fully on level ground.
8. Don't remove anti-tipper wheels if the scooter is equipped with them.
9. Do not stop the scooter when climbing a slope or drive on a slope steeper than the safe maximum incline for the stability of the scooter and your safety.
10. Please ride with caution and keep a safe distance from other road users if applicable. Be especially careful when driving on wet or slippery surfaces.
11. Please slow down and be careful when turning or reversing.
12. Please do not drive the scooter whilst listening to headphones, as this may cause distraction.
13. Please do not overload.
14. Please power off the scooter when it is not in use to prolong the service life of the battery.
15. Please do not charge batteries under direct sunlight in the summer. Please charge the battery indoors in winter when the outdoor temperature is lower than 10°C.

**General**



Always use a seat belt, and keep your feet on the scooter all the time.



Never operate the scooter under the influence of alcohol.



Avoid talking on the phone whilst actively driving your scooter.



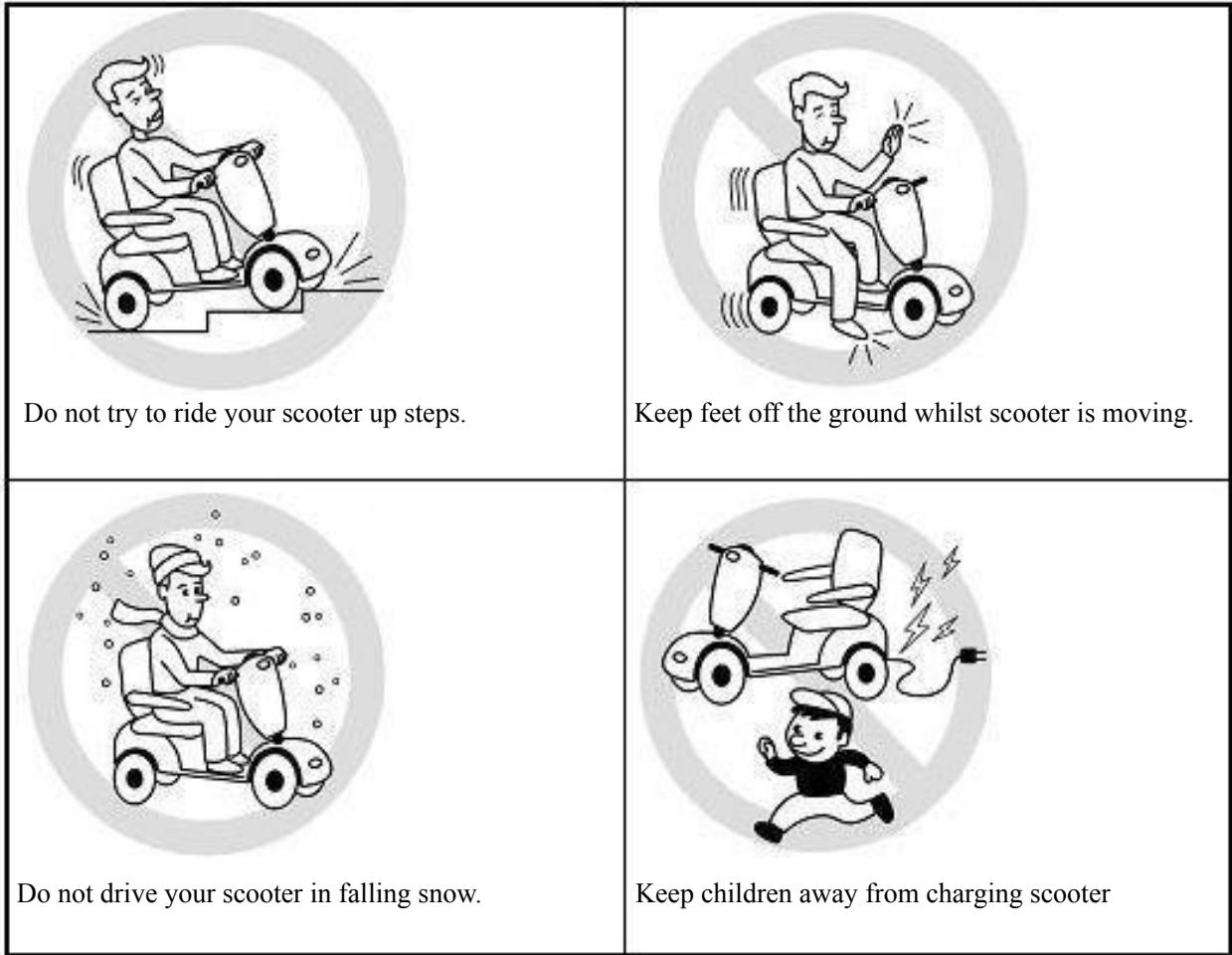
Be aware of your surroundings at all times.



Do not make a sharp turn or a sudden stop while riding your scooter.



Do not ride your scooter in heavy traffic.



**Warning--Don't operate your scooter for the first time without completely reading and understanding this user manual**

1. Be aware that it may be difficult for traffic to see you when you are seated on the scooter. Obey all local traffic rules. Wait until your path is clear of traffic, and then proceed with caution
2. To prevent injury to yourself or others, always ensure that the power is switched off when getting on or off the scooter.
3. Always check that the drive wheels are engaged (drive mode) before driving. Do not switch off the power when the scooter is still moving forward. This will bring the scooter to an extremely abrupt stop.
4. Do not use this product or any available optional accessories without first completely reading and understanding these instructions. If you are unable to understand the warnings, cautions or instructions, contact a healthcare professional, the dealers or technical support before attempting to use this equipment, otherwise, injury or damage may occur.
5. Consult with your physician if you are taking any medication that may affect your ability to operate your scooter safely.
6. Do not attempt to lift or move this scooter by any of its removable parts including the armrests, seat

or shrouds. Personal injury and damage to the scooter may result.

7. Never try to use your scooter beyond its limitations as described in this manual.
8. Please do not sit on your scooter while it is in a moving vehicle.
9. Keep your hands away from the wheels (tires) while driving scooters. Be aware that loose fitting clothing can become caught in the tires.
10. Note that some medications and limitations may impair your ability to operate scooters in a safe manner. Please consult your doctor if you have any concerns in this regard.
11. Be aware when the drive mode is unlocked or locked.
12. Don't remove anti-tippers if the scooter comes with them attached.
13. Do not connect an extension cord to the AC/DC converter or the battery charger.
14. When climbing an incline, don't drive at an angle up the face of the incline. Drive your scooter straight up the incline. This greatly reduces the possibility of a tip or a fall.
15. Don't climb a slope steeper than the scooter's limitation.
16. Don't attempt to have your scooter proceed backward down any step, curb or other obstacle. This may cause the scooter to fall or tip.
17. Always reduce your speed and maintain a stable center of gravity when cornering sharply. Don't corner sharply when driving scooters at higher speeds.
18. Operating in rain, snow, salty, or misty conditions and on icy or slippery surfaces may have an adverse effect on the electrical systems
19. Never sit on your scooter when it is being used in connection with any type of lift or elevation product. Your scooter is not designed for such usage

### **Modifications**

Under no circumstances should you modify, add, remove, or disable any part or function of your power scooter. Personal injury and damage to the scooter may result.

1. Do not modify your power scooter in any way not authorized by your dealer. Do not use accessories if they have not been tested or approved for use with this product.
2. Get to know the feel of your power scooter and its capabilities. We recommend that you perform a safety check before each use to make sure your scooter operates safely.

### **Inspections prior to using your power scooter**

1. If equipped with pneumatic tires, please check for proper tire inflation.
2. Please check all visible electrical connections and make sure they are tight and not corroded.
3. Please check all harness connections and make sure they are secured properly.
4. Please check the brakes.

### **Weight limitations**

1. Please refer to the specifications table for weight capacity information. This scooter is rated for safe use only up to a maximum weight capacity.
2. Stay within the specified weight capacity for your scooter. Exceeding the weight capacity voids your warranty. We will not be held responsible for injuries or property damage resulting from failure to observe weight limitations.
3. Don't carry passengers on scooters. Carrying passengers on your scooter may affect the center of gravity, resulting in a tip or a fall.

### **Tire inflation**

1. If your scooter is equipped with pneumatic tires, it is advisable to check the air pressure at least one time a week.
2. Proper inflation pressures will prolong the life of your tires and ensure smooth operation while riding.
3. Do not under-inflate or over-inflate your tires. It is critically important that 30-25 psi (2-2.4bar) tire pressure be maintained in pneumatic tires at all times.
4. Inflating your tires from an unregulated air source could over-inflate them, resulting in a burst tire.

### **Temperature**

1. Some parts of the mobility scooter are susceptible to changes of temperature. The controller can only operate safely between -25°C and 50°C.
2. The batteries may freeze at extremely low temperatures. At extremely high temperatures, the scooter may operate at lower speed due to a safety feature of the controller that protects the motor and other electrical components from damages.

## ELECTROMAGNETIC INTERFERENCE (EMI)

The rapid development of electronics, especially in the area of communications, has saturated our environment with electromagnetic (EM) radio waves that are emitted by television, radio and communication signals. These EM waves increase in strength as one approaches the source. All electrical conductors act as antennas to the EM signals and, to varying degrees, all power wheelchairs and scooters are susceptible to electromagnetic interference (EMI). The interference could result in abnormal, unintentional movement and/or erratic control of the vehicle. Power scooters may be susceptible to electromagnetic interference (EMI), which is interfering electromagnetic energy emitted from sources such as radio stations, TV stations, amateur radio (HAM) transmitter, two-way radios, cellular phones and alarm systems of shops. The interference (from radio wave sources) can cause the power scooter to release its brakes, move by itself or move in unintended directions. It can also permanently damage the powered scooter's control system. The intensity of the EM energy can be measured in volts per meter (V/m). Each powered scooter can resist EMI up to a certain intensity. This is called "immunity level". The higher the immunity level the greater the protection. At this time, current technology is capable of providing at least 20 V/m of immunity level, which would provide useful protection against common sources of radiated EMI.

Following the warnings listed below should reduce the chance of unintended brake release or powered scooter movement that could result in serious injury:

1. Do not turn on hand-held personal communication devices such as citizens' band (CB) radios while the powered scooter is turned on.
2. 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 scooter off as soon as it is safe.
4. Be aware that adding accessories or components, or modifying the powered scooter, may make it more susceptible to interference from radio wave sources (Note: It is difficult to evaluate the effect on the overall immunity of the powered scooter).
5. Report all incidents of unintended movement or brake release to the powered scooter manufacturer, and note whether there is a radio wave source nearby.

TURN OFF YOUR SCOOTER AS SOON AS POSSIBLE IN THE EVENT OF:

- Unintentional scooter movements
- Unintended or uncontrollable direction
- Unexpected brake release



## TECHNICAL SPECIFICATIONS



MODEL	<b>LuXe Mobility X700 Deluxe Sport</b>
OVERALL LENGTH	1400mm
OVERALL WIDTH	710mm
OVERALL HEIGHT	1080mm
WEIGHT: W/ BATTERY	125kg
WEIGHT: W/O BATTERY	97kg
WEIGHT CAPACITY	160kg
MAX. SPEED forward	8mph
MIN. SPEED forward	2.5mph
REVERSE SPEED	3mph
TURNING RADIUS	2200mm
MAX. CROSS OBSTACLE HEIGHT	80mm
MAX.DRIVING SLOPE	12°
MAX.DRIVING RANGE	40km (25 miles)
DRIVING SYSTEM	Rear wheel with gear box
BRAKE SYSTEM	Electro-magnetic parking brake
MOTOR	24V/800W
CONTROLLER	24V/120A
FRONT TIRE SIZE	13" * 5"
REAR TIRE SIZE	13" * 5"
BATTERIES	Lead-acid 12V/52AH*2pcs (75AH/80AH optional)
CHARGER	DC24V5A AC115-230V
MAX. CHARGING CURRENT	5A
CHARGING TIME to 80% charge	8h
CHARGING TIME to full charge	10h
SEAT WIDTH	500mm
SEAT DEPTH	480mm
SEAT HEIGHT from leg platform	490mm
BACKREST HEIGHT	740mm
ARMREST HEIGHT from seat	260mm
GROUND CLEARANCE	90mm

## COMFORT ADJUSTMENTS

### Adjustments for seating comfort



Turn the swivel lever forwards to rotate the seat.



Push the front lever downwards to move the seat forward or backward.

### Adjustment of tiller positioning

Press down the lever and move it to your preferred position.



## FEATURES



# GETTING ON & OFF THE SCOOTER

## **Getting on your scooter**

1. Ensure that the key switch is turned to the off position.
2. Push forward the seat swivel lever located under the seat on the right-hand side and rotate the seat to face you.
3. Put the armrests into the fully down position and use them to steady yourself as you gently lower yourself into the seat.
4. Push forward the seat swivel lever and gently swivel the seat to face forward.
5. Ensure that both feet are placed firmly on the floorboard of the scooter and the seat is secure.

## **Getting off your scooter**

1. Bring your scooter to a stop and turn the key switch to off .
2. Push forward the seat swivel lever located under the seat on the right-hand side and rotate the seat 90 degrees to exit.
3. Put both feet on the ground and gently leave the seat using the arm rests to assist you out of the chair.

# OPERATION OF TILLER CONTROL

## Key switch



Power on

## Control Panel



## Functions

- **Pre-set Speed Knob**

Turning this knob to the left reduces your available maximum speed. Turning it to the right increases the available maximum speed.

- **Headlight switch**

Press the light button once to illuminate the lights, press the button again to switch the lights off. Switch the lights on to make yourself more visible in low levels of light, day or night

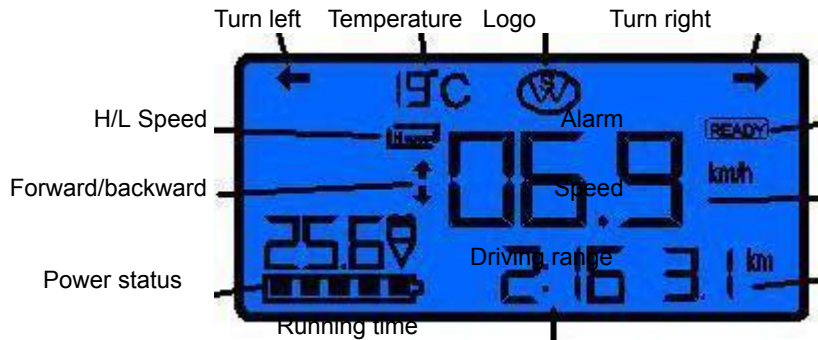
- **Horn Button**

Pressing the horn button operates an audible warning sound.

- **Left/right indicator switch**

Pressing the button operates a warning sound and lights.

## Liquid Crystal Display (LCD)



### Functions

- Logo: Manufacturer's logo
- Power status: battery remaining capacity and charging indicator (5 squares battery icon+ voltage)
- Speed sensor: 2.5 digits + 1 decimal + "km/h " symbol
- High/low speed indicator: "H speed" or "Low speed" symbol
- Forward/backward indicator: □ or □ symbol
- Turn left/right indicator: □ or □ symbol
- Odometer: Distance travelled (99.9km max)
- Running time: running time elapsed per use
- Temperature gauge: Temperature in °C
- Malfunction code: READY symbol flashing

### Throttle Lever



- For driving, please pull the right throttle lever (backward) or the left throttle lever (forward).
- Please release the throttle lever to stop the scooter. In the center position the magnetic motor brake system works also as a parking brake.
- For safety, if rolling in free-wheel mode down a slope, the automatic brake will take action if the scooter's speed is more than 30% of the maximum.



Engaged

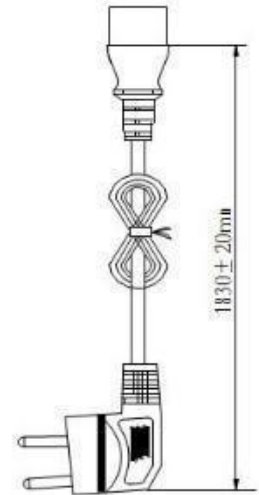
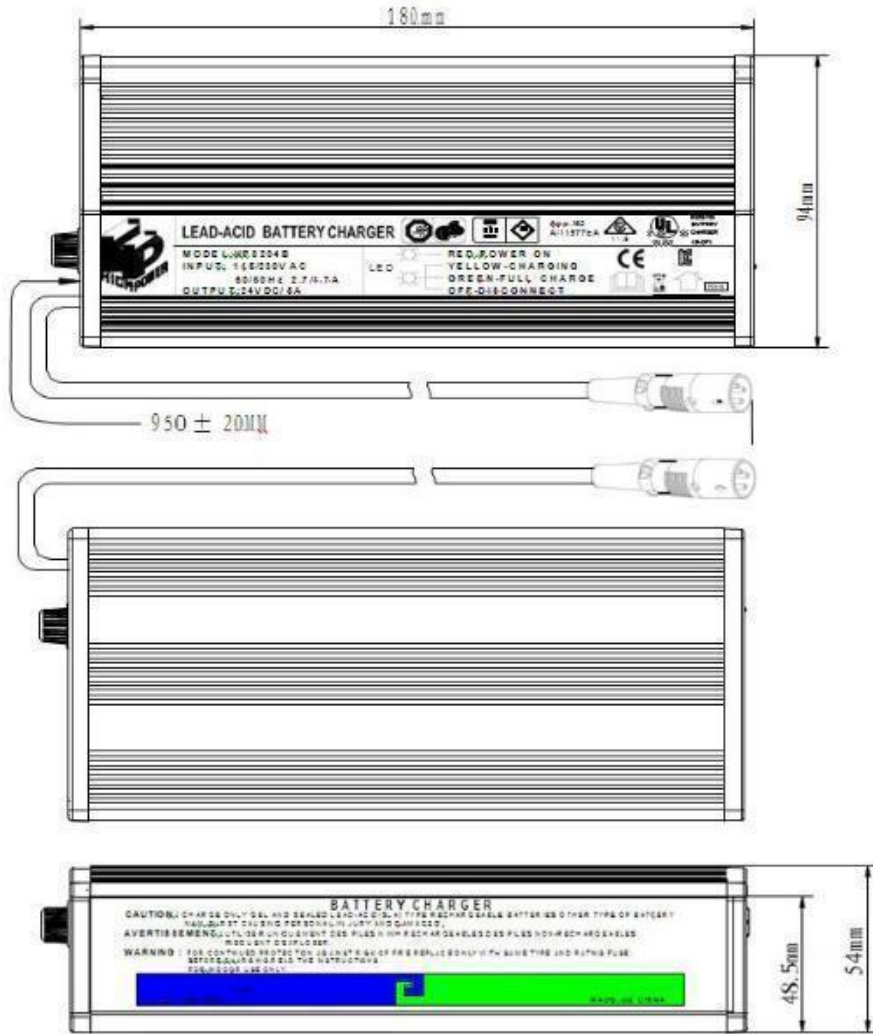


Disengaged

- Please note that the scooter will be in free-wheel mode when the motor is disengaged.
- To use the parking brake, you must move and lock the lever into the engaged position

# CHARGING INSTRUCTIONS

## Charging Apparatus Appearance & Dimensions





## Charger Specification

Item	Off-board Battery Charger
Model	HP8204B
Efficiency	81% min.
Output Current	5A±0.2A max.
Output Voltage	29.8V±0.2V max.
Floating Voltage	31.2V±0.2V
Input Current	2.7A max.
Input Voltage	115Vac/230Vac 50/60HZ
Pulsating Current	0~5A
Protection	<ol style="list-style-type: none"> <li>1. Over-current protection</li> <li>2. Over-voltage protection</li> <li>3. Reverse power protection</li> <li>4. Short circuit protection</li> </ol>
LED Indicator	Red: power on Orange: charging Green: full charged
Operating Temperature	0°C~40°C
Operating Humidity	20%~85%
Operating Height	0~2000m
Measure	L 180mm×W 93mm×H 53mm
Weight	0.83kg
Color	Black
<p>* The charger is capable of charging from 230V or 110V by switching the charger off and sliding the red tab on the end of the charger to the required setting using a small screwdriver. This setting is factory set to 230V.</p>	

## **Charger Operating Instructions**

1. Switch your scooter off at the key switch.
2. Swivel the charge connector cover located on the tiller and connect the charger.
3. Connect the battery charger to the battery.
4. Start charging



### **Caution**

- Before using the battery charger, read all instructions and cautionary markings.
- Use the battery charger in a well-ventilated indoor area.
- Ensure the scooter is switched off before commencing the charging process.
- Ensure that the charger plug is dry and intact before connecting it to the mains.
- After charging, always remember to swivel the charging socket cover back into place
- The charger must be kept dry in temperatures between -25°C and 40°C and be handled with care to avoid mechanical damage.
- Use only the original charger unless authorized otherwise by your dealer. Other brand's charger may shorten your warranty period, and may cause damage and injury.
- In all cases, the charger must only be repaired by an authorized dealer.

### **Tip**

- If a fault occurs, the reset button will pop out. Switch the scooter off, press the button in and switch the scooter back on.
- If your scooter fails to respond to normal control after a charging period, please check that the battery charger has been completely disconnected from the scooter.



## BATTERY INSTRUCTIONS & MAINTENANCE

### **Battery pack care plan**

- Only use the approved battery charger compatible with the vehicle to be charged.
- Charge your batteries overnight, regardless of the amount of use your mobility device has had during the day.
- Do not interrupt the charging cycle.
- Do not leave the charger still connected to the batteries when the mains socket/plug is switched off. This will eventually deplete the battery charge.
- If you leave your vehicle for an extended period (more than 5 days) first charge your batteries for 12 hours, then remove charger and ensure the batteries are disconnected.
- Failure to allow for full recharge will damage the batteries and can lead to shortened distances and permanent failure.
- Do not top up the charge of your batteries during the day except in an emergency. Wait until the evening for a full overnight charge.

### **Caution**

- Remember to remove the plug from your scooter when the charger is off, to prevent driving away whilst attached. The scooter cannot be operated when being charged.
- The batteries need to be checked regularly for signs of damage. If any damage is apparent, contact your local mobility dealer immediately.
- Take care not to short circuit the battery terminals. Remove all conductive jewelry (e.g. watches, necklaces etc.) before checking the batteries.
- When charging, always place the battery on a hard surface in a room with good ventilation. You should not charge the batteries in outdoor conditions.
- Do not expose any part of the battery to direct heat (e.g. gas fires or naked flame).
- Do not allow the batteries to freeze.
- Do not dispose of batteries in normal waste. Always recycle in accordance with local laws.

### **Tip**

If you are out on your scooter and the battery gauge is reading low the remaining range can be increased slightly by decreasing the maximum available speed.

# SCOOTER MAINTENANCE

Your power scooter is designed for minimal maintenance. However, like any motorized vehicle it requires routine maintenance. To keep your **LuXe Mobility X700 Deluxe Sport** providing you with trouble-free operation, we recommend you follow the following maintenance checks as scheduled.

## **DAILY checks**

1. Visual check on the conditions of tires.
2. Inspect the battery condition meter on the controller to determine if batteries need to be charged.

## **WEEKLY checks**

1. Check tires and tire pressures. Make sure each tire is free of debris, oil, deep cuts or distortion.
2. Ensure that the batteries are charged for a minimum of 8 hours.

## **QUARTERLY checks**

1. Visually inspect the controller harnesses. Make sure that they are not frayed, cut or have any exposed wires.
2. Check tires for wear. Look at the tires to ensure that the tread is visible and continuous.

## **ANNUAL checks (by authorized dealer)**

1. Seat swivel, seat slide (where fitted).
2. Inspection of wiring and connectors for chafing and wear.
3. Check the motor brushes.
4. Clean and protect battery terminals with petroleum jelly.
5. Ensure the parking brake (where fitted) is correctly adjusted.
6. Check stabilizer wheels for wear.

## TRANSPORTATION

Your scooter may be disassembled quickly and simply for transportation.

1. Switch off the scooter, and make sure the motor is engaged.
2. Place the scooter safely and securely into the luggage compartment.

### **Caution**

Always secure your scooter parts before transportation. Do not sit on your scooter whilst it is being transported in or on another vehicle.

### **Packaging and Transportation Environmental Condition Guidance**

This mobility scooter can be transported by standard vehicles, but you need to protect it against strong impact, vibration or any snow or rain.

The scooter should be transported in an environment between  $-20^{\circ}\text{C}\sim 45^{\circ}\text{C}$  temperature, with humidity less than 93%, and good ventilation.

## TROUBLESHOOTING & FAULT REPAIR

Symptom	Possible cause	Solution
Shortened range	Batteries not charged for long enough	Charge batteries for eight hours or more
	Batteries weak and cannot hold charge	Replace battery pack
Battery pack not charging or battery gauge shows empty after charging	Battery pack fault	Replace charger
	Charge fault	Contact local mobility dealer
	Charger loom or plug damaged	Check plugs and looms
	Loose connection	Try a wall socket in a different room
	No output from wall outlet	Unplug from wall & change fuse
	Fuse in charger mains plug blown	Switch off and press button back in
	Button on battery pack has popped out	Switch off and press button back in
	Output fuse in charger blown	Unplug from wall and contact dealer
Battery charging current high	Faulty batteries	Replace battery pack
	Scooter switched on during charging	Turn Scooter off
No drive	Brake-release lever disengaged	Engage brake-release lever
	Flat batteries	Charge battery pack
	Scooter is not switched on with key	Ensure the key is switched on
	Battery pack not engaged properly	Check battery pack is fully engaged onto connectors
	Charger plugged in	Unplug charger
	Button on battery pack popped out	Reset circuit-breaker button
	Disconnected loom or plugs	Check all plugs & looms
	Control system fault	Contact dealer
Motor runs irregularly and/or noisily	Electrical malfunction	Contact dealer
	Control system fault	Contact dealer
<p><b>* Do not attempt to open any parts of the scooter control system, battery pack, looms, plugs or battery charger.</b></p> <p><b>* The control system is safety critical and there are no user serviceable parts.</b></p>		

Your scooter is fitted with a self diagnostic controller which continuously monitors the operating conditions of your scooter. If it detects a problem it will indicate with an error message by flashing the READY on the LCD and sounding audible beeps simultaneously. Count the number of flashes and beeps, separated by a short delay between each sequence, and see the list below to check what kind of problem has happened according to the number.

<b>Number of flashes/beeps</b>	<b>Represent</b>	<b>Fault</b>	<b>Solution</b>
1	Battery power low	Power not enough	The battery needs charging
2	Low battery voltage	Power not Enough	The battery needs charging
3	High battery voltage	Voltage too high while or climbing or due to overloading	Decrease speed while climbing
			Check battery connection
4	Electric current over limit	Electric current over limit of motor	Check motor and related wiring connections
			Switch off and wait a few minutes and switch on
5	Freewheel lever issue	The freewheel lever is on	Check the related wiring of the freewheel lever
			Confirm the lever is in the correct position
6	Accelerator variable resistor issue	When turning on the controller, accelerator variable resistor isn't in the neutral position	Make sure the accelerator variable resistor is in the neutral position
			Accelerator variable resistor may need recalibration
7	Speed limited variable resistor issue	Accelerator variable resistor, Speed limited variable resistor or other wiring issue	Check all the accelerator variable resistor, Speed limited variable resistor or other wiring
8	Motor voltage issue	Motor and other related wiring issue	Check Motor and other related wiring
9	Other issues	Inner issues in the controller	Check all the connection and wirings
10	Pushing/Slipping issues	The speed of pushing or slipping is over limit	Switch the controller off and on

# WARRANTY

## **Warranty Conditions**

1. Repairs must be conducted by an authorized Dealer/Service Agent.
2. To apply the warranty conditions should your scooter require attention under these arrangements, notify the designated Service Agent immediately giving full information about the nature of the difficulty. Should you be operating the scooter away from the locality of the designated Service Agent, work under the Warranty Conditions will be conducted by any other service agent designated by the manufacturer.
3. Should any part or parts of the scooter require repair or replacement as a result of a manufacturing or material defect within one year from the date on which possession of the scooter was transferred to the original purchaser, and subject to it remaining within that ownership, then the part or parts will be repaired or replaced completely free of charge if returned to the authorized service agent.
4. Any repaired or replaced part will benefit from these arrangements for the balance of the warranty period applicable to the scooter.
5. Parts replaced after the original warranty has expired are covered for a further three months.
6. Items of a consumable nature will not generally be covered during the normal warranty period unless such items have clearly suffered undue wear as a direct result of an original manufacturing defect. These items include, amongst others, upholstery, tires, inner tubes, batteries, arm pad, hand grips and other similar parts.
7. The above warranty conditions apply to all scooter parts for models purchased at full retail price.
8. Under normal circumstances, no responsibility will be accepted where the scooter has required repair or replacement as a direct result of:



8.1 The scooter, in whole or part, not having been maintained in accordance with the manufacturer's recommendations, where such exist.

8.2 Failure to use only the specified original equipment parts.

8.3 The scooter, in whole or part, having been damaged by neglect, accident or improper use.

8.4 The scooter, in whole or part, having been altered from the manufacturer's specifications, or repairs having been attempted prior to the Service Agent being notified, and giving authorisation.

Please keep a note of your local Service Agent's address and telephone number in the space provided. In the event of a breakdown, contact them and try to give all relevant details so they can help you.

The scooter shown and described in this manual may not be exactly the same in every detail as your own model. However, all instructions are still entirely relevant, irrespective of minor differences.