



Colours may vary

Mobility Scooter – FreeRoam II

User Manual

[Revision 1.0 August 2019]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

THE BATTERY MAY HAVE SOME CHARGE ON ARRIVAL, IT IS IMPORTANT HOWEVER THAT THE BATTERY IS CHARGED PRIOR TO USE.

Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:



You **WILL** be KILLED or SERIOUSLY INJURED if you do not follow instructions.

It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.

Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.

Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.

- **Before Use** - If you are not familiar with the safe operation/handling of the equipment or are in any way unsure of any aspect of suitability or correct use for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.
- Do NOT operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases or dust. The equipment may create sparks or heat that may ignite flammable substances.
- Keep clear of moving parts.
- Equipment may be a potential source of electric shock or injury if misused.
- Do NOT operate the equipment if it is damaged, malfunctioning or is in an excessively worn state.
- Do NOT allow others to use the equipment unless they have read this manual and are adequately trained.
- Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.

General Work Area Safety

- Work areas should be clean and well lit.
- Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.
- If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly. Dust collection can reduce dust-related hazards.



You **CAN** be KILLED or SERIOUSLY INJURED if you do not follow instructions.

General Personal Safety

- Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.
- Stay alert and use common sense when operating the equipment. Do not over-reach. Always maintain secure footing and balance.
- Do not use the equipment if tired or under the influence of drugs, alcohol or medication.
- This equipment is not intended for use by persons with reduced physical, sensory or mental capabilities.

General Fuel Safety

- Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources.
- Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing.
- Do NOT smoke near fuel or when refuelling.
- Always shut off the engine before refuelling.
- Do NOT refuel a hot engine.
- Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.
- Always refuel in well ventilated areas.
- Always check for fuel leakage. If fuel leakage is found, do not start or run the engine until all leaks are fixed.

General Carbon-Monoxide Safety

- Using a combustion engine indoors **CAN KILL IN MINUTES**. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see.
- Use combustion engines OUTSIDE only, and far away from windows, doors and vents.



You **CAN** be INJURED if you do not follow instructions or equipment damage may occur.

General Equipment Use and Care

- The equipment is designed for domestic use only.
- Handle the equipment safely and carefully.
- Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorised service centre or technician before use.
- Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.
- Do not force the equipment. Use the correct equipment for your application. Equipment will perform better and be safer when used within its design and usage parameters.
- Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.
- Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated.
- Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place or store the equipment near flammable materials, combustible gases or liquids etc.
- The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid.
- Do not clean equipment with solvents, flammable liquids or harsh abrasives.
- For specific equipment safety use and care, see Equipment Safety.

General Electrical Safety	General Electrical Safety	General Service Information
<ul style="list-style-type: none"> Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately. Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment. When wiring electrically powered equipment, follow all electrical and safety codes. Wherever possible, use a residual current device (RCD). High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal. 	<ul style="list-style-type: none"> Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet. Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord. Do NOT use equipment that has exposed wiring, damaged switches, covers or guards. Do NOT use electrical equipment in wet conditions or in damp locations. Do NOT use electrical cords to lift, move or carry equipment. Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards. 	<ul style="list-style-type: none"> The equipment must be serviced or repaired at authorised service centres by qualified personnel only. Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained. Do NOT attempt any maintenance or repair work not described in this manual. After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before adjusting, changing accessories or performing repair or maintenance. Do NOT adjust while the equipment is running. Perform service related activities in suitable conditions, such as a workshop. Replace worn, damaged or missing warning/safety labels immediately.

Mobility Scooter Safety

DO NOT OPERATE THE SCOOTER BEFORE READING AND UNDERSTANDING THIS INSTRUCTION MANUAL.

IF YOU ARE IN DOUBT ABOUT THE MEANING OF THESE INSTRUCTIONS, OR ANY OF THE CAUTIONS AND WARNINGS, PLEASE CONSULT YOUR HEALTHCARE PROFESSIONAL, DEALER OR RELEVANT TECHNICAL PERSONNEL.

FAILURE TO FULLY UNDERSTAND THE SCOOTER OPERATION MAY RESULT IN AN UNEXPECTED RESPONSE FROM THE EQUIPMENT WHICH CAN IN TURN LEAD TO POSSIBLE INJURY OR DAMAGE.

Warning and Caution notices used in this manual, apply to hazards and unsafe practices that could result in personal injury or damage to property.

We supply an extensive range of mobility scooters to meet the varying needs of individual users. It is the responsibility of the individual user and their healthcare advisor qualified in making such choices, to decide which scooter is suitable for the user's intended purpose.

With regards to restraints, seat positioning straps, posture correction or other positional aids and accessories, it is the obligation of the qualified healthcare professional in conjunction with the dealer to ensure the suitability of such equipment for the safe operation of the scooter.

Serious injury can occur in the event of a fall from a mobility scooter. We DO NOT RECOMMEND that a scooter user is transported in any type of vehicle when seated in the scooter.

At this time, there are no approved Tie-down Systems for the transportation of a user in ANY moving vehicle whilst seated in a scooter. It is our opinion that users of mobility scooters should be transferred into the appropriate vehicle seating system and use should be made of the restraints available to the auto industry.

Intended Use: This mobility scooter would be used by disabled, sick or old person.





















Personal & Operational Guidelines

- Drive profiles should only be adjusted by healthcare professionals and approved agents/dealers, who are totally conversant with the process. They must also fully understand the user's capabilities and the user's ability to operate the scooter safely.
- Incorrect settings may cause injury or damage to the user, bystanders, the scooter and/or nearby property.
- To determine personal mobility limitations, practice combinations of bending, reaching, mount and dismount techniques, whilst in the presence of a healthcare professional. Practice the above techniques BEFORE actively using the scooter.
- For users with balance problems, practice the above techniques with the aid of an assistant, in the presence of a healthcare professional.
- DO NOT attempt to pick up objects that cause you to shift your weight in the seat or require you to bend excessively in any direction. Such action may result in the scooter tipping over, or in injury to the person or both.
- DO NOT use an escalator to move the mobility scooter between floors as serious bodily injury could arise from such actions.
- DO NOT drive on the road, dual carriageways or motorways.
- DO NOT drive up, down or across inclines that have water, ice, oil or any other slippery substance on the surface. Failure to note the above conditions could cause loss of control.
- DO NOT attempt to drive over kerbs or obstacles in excess of 45mm. Disregarding this warning could cause the mobility scooter to tip resulting in possible bodily harm.
- DO NOT make sharp turns in forward or reverse at high speeds.
- DO NOT lift the mobility scooter by its Tiller, Seat, Body Panels or by any detachable assemblies. Always disassemble the scooter into its stowable parts and then lift each assembly one at a time.
- DO NOT carry passengers on your scooter.
- DO NOT attempt to tow another vehicle.
- DO NOT operate the mobility scooter without first checking that it is safe to do so. Always be aware of your surroundings.

- DO NOT attempt to use your mobility scooter without first checking that all wiring harnesses are connected and all detachable parts/assemblies are correctly aligned and firmly fixed in place.
- DO NOT use your mobility scooter without the anti-tipper wheels attached.
- DO NOT attempt to fit parts, accessories or adapters that are not authorized.
- DO NOT mount or dismount your mobility scooter without first withdrawing the ignition key. This will ensure that the power is off, and the scooter cannot move unexpectedly.
- DO NOT leave the ignition key in your scooter whilst it is unattended. Children or inexperienced people may attempt to drive your scooter which may result in damage or personal injury.
- DO NOT connect any medical device, such as a ventilator, life support machine etc. to the scooter's electrical system. Failure of the equipment may result from such connections.
- DO NOT operate your mobility scooter whilst under the influence of alcohol, drugs or prescription medication that may impair judgement.
- DO NOT operate your mobility scooter if you feel acutely unwell.
- DO NOT operate your mobility scooter if your vision is seriously impaired.
- **If you have any doubts about medical conditions, health problems or treatments that may affect your ability to operate the mobility scooter safely, please consult your healthcare professional.**
- **We specifically disclaim responsibility to all personal injury and property damage that may occur during use which does not comply with the relevant national or local statutes.**
- Do not attempt to operate your scooter whilst standing next to it.
- Always ensure that you are able to operate all the controls from a seated position, that the rear view mirror (if fitted) is set correctly and that the seat is securely locked into place.
- **Attention: Switch on the scooter lights (if fitted) to make yourself visible when there are low levels of light, day or night.**
- The rear body panel (where fitted) is designed to cover the Drive Assembly, Wiring Harness and Electrical Connectors.
- DO NOT stand on any of the body panels, only the footboard.
- DO NOT stand on the scooter seat.
- DO NOT attempt to transfer into or out of the scooter seat without first checking that it is LOCKED into position. Attempting unsafe transfers can result in bodily injury and/or damage.
- DO NOT drive your scooter if the seat is not LOCKED in the FORWARD position. The seat must be secured in the FORWARD facing position BEFORE and DURING operation of the scooter. Attempting to operate the scooter with the seat not secured in the front facing position, could result in damage and/or bodily injury.
- DO NOT operate the scooter without ensuring that the Tiller is properly adjusted and secured. After making any adjustment to the Tiller position you must check that the Tiller is locked and secured into position BEFORE driving. To check, gently push and pull the Tiller to make sure it is secured. An unsecured Tiller could result in damage and/or bodily injury.
- DO NOT attempt to climb, ascend, or descend ramps greater than 10 degrees, or transverse slopes with a gradient greater than 10 degrees.
- DO NOT attempt to reverse down slopes in excess of 8 degrees. When negotiating ramps or inclines, if the throttle lever is released a roll back will occur.
- In FORWARD or REVERSE motion, the scooter will ROLLBACK approximately 30cms. (1ft), before the brake engages.
- Check that all electrical connections are secure before using your scooter.
- DO NOT under any circumstances, disconnect, cut, extend or otherwise modify ANY of the wiring harnesses installed within or connected to your mobility scooter.
- DO NOT under any circumstances, disconnect, cut, extend or otherwise modify ANY of the wiring harnesses installed within or connected to your mobility scooter battery charger.
- It is important that your mobility scooter battery charger is connected to a properly installed electrical socket with an earthed outlet.
- **Failure to comply with the above requirements could result in a possible SHOCK HAZARD.**
- DO NOT use any batteries that are not DEEP CYCLE GEL, AGM or SEALED LEAD-ACID type. Other types of batteries are NOT SUITABLE.
- Please read battery/battery charger information before installation.
- This scooter has been tested to ISO 7176 Part 9 "Climatic Tests for Electric Wheelchairs." The test provides the scooter user or their attendant, sufficient time to remove the mobility scooter from a rainstorm, while retaining normal operation of the mobility scooter.
- DO NOT operate your mobility scooter during an electrical storm.
- DO NOT leave your mobility scooter in a rainstorm of any kind.
- DO NOT use your mobility scooter in a shower or leave it in a damp bathroom or sauna.
- DO NOT leave your mobility scooter in a damp area for any length of time.
- DO NOT Jet wash, hose down, or use an automated car-wash on your mobility scooter.
- Direct exposure to rain, sea spray or moisture could cause the mobility scooter to malfunction electrically and mechanically and may cause rusting.

Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc., replace them.

 <p>Flammable Material Hazard Flammable liquids, gases or substances etc may present. Avoid ignition sources and open flames. Danger of fire.</p>	 <p>Read User Manual Read and fully understand product safety warnings, operation, procedures etc before using the product.</p>	 <p>Use Hand Protection Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.</p>	 <p>Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.</p>
 <p>Electrocution / Electrical Shock Hazard High voltage or high current electricity may be present or required by the product. Take due care when handling electrical products, cables, plugs and leads. Electrical shock can be fatal.</p>	 <p>Toxic Fumes / Dust Hazard Using the product or by-products from use may produce fumes, smoke or particles that could be harmful if inhaled. Wear appropriate breathing protection and have adequate ventilation.</p>	 <p>Explosive Material Hazard Combustible liquids, gases or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.</p>	 <p>Cutting / Amputation Hazard The product may have blades, edges or mechanical devices that can cause severe cut injury to fingers, limbs etc. Take due care when handling and using the product.</p>
 <p>Crush Hazard The product may have blades, edges or mechanical devices that can cause severe crush injury to fingers, limbs etc. Take due care when handling and using the product.</p>	 <p>Single Operator Only The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.</p>	 <p>Use Face Protection Wear appropriate full-face protection and take due care as the product or use of the product may present face and eye hazards.</p>	 <p>Use Foot Protection Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.</p>
 <p>Use Eye / Ear / Head Protection Wear appropriate eye and / or ear and / or head protection and take due care as the product or use of the product may present eye, hearing and head hazards.</p>	 <p>Running Hazard Do not run on or near the product as doing so may present a fall hazard.</p>	 <p>Diving Hazard Do not dive into the product as doing so may present a neck / head injury hazard.</p>	 <p>Adult Supervision Required Always supervise children and other users of a product to prevent drowning or injury.</p>
 <p>Skin Penetration / Puncture Hazard The product may produce pressure, emit liquids or objects that can cause severe injury to fingers, limbs, blood etc. Take due care when handling and using the product.</p>	 <p>Hot Surface Hazard Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.</p>	 <p>Flying Debris Hazard Be aware that the product or use of the product may present hazards produced by flying debris. Wear appropriate clothing and protective devices.</p>	 <p>Moving Parts Hazard Be aware that the product contains or uses mechanical devices that move or rotate. Always wait for moving parts to stop fully before handling the product, adjusting, maintenance etc.</p>
















 <p>Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.</p>	 <p>Pull Hazard Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.</p>	 <p>Slope / Fall Injury Hazard Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.</p>	 <p>"Slam Dunk" Warning Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.</p>
 <p>Electrocution / Electrical Shock Hazard - Outdoor High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp or wet conditions. Electrical shock can be fatal.</p>	 <p>Electrocution / Electrical Shock Hazard - Disconnect High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenance etc.</p>	 <p>Power Line Electrocution Hazard High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.</p>	 <p>"Kick-Back" Hazard High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.</p>
 <p>Winch Operator Position Hazard Do NOT stand between winch and load. Do NOT use winch to move people.</p>	 <p>Winch Lift Hazard Do NOT LIFT load vertically. Use machine to PULL only.</p>	 <p>Cable Hazard Ensure that load bearing cable is not kinked or knotted.</p>	 <p>Winch Cable Hazard Ensure that there is a minimum number of cable coils on winching mechanism.</p>
 <p>Winch Hook Hazard Carry hook to load – do NOT throw or run.</p>	 <p>Flash / Blinding Hazard Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.</p>	 <p>Laser Hazard Laser may be in use – do NOT look directly at laser or allow others to.</p>	

Table of Contents

Safety	2
Safety Symbols	5
Parts Identification	9
Quick Start Guide	10
Assembly	10
Battery Charging	10
Typical Use	10
Control Functions	10
Transporting	10
Operation	12
Getting On Your Scooter	12
Getting Off Your Scooter	12
Control Panel	13
Hand Controls	13
The Pre-set Speed Knob	13
The Battery Gauge	13
Operating the Lights	14
Tiller Control Functions	14
Throttle Lever	14
Horn Button	14
Key Switch	15
Off Board Charging Socket	15
Freewheel Mechanism	16
Seat Removal and Adjustment	16
Removing the Seat	16
Seat Adjustment	17
Armrest Adjustment	17
Tiller, Battery and Charging	18
Tiller Adjustment	18
Battery Removal	18
Battery Replacement	18
Off-Board Battery Charger	18
Fuses	19
Guidance for Safe Operation and Use	20
Basic Driving	20
Hill Climbing	20
Traveling Across Slopes	21
Braking	21
Emergency Braking	21

Switching Off 21

Usage on Footpaths 21

Crossing Roads 22

Turning corners 22

Use of Mobile Phones 22

Tyres 22

Emergency Braking 22

Freewheel Mechanism 22

Battery and Charging Information..... 23

 General Information 23

 Batteries 23

 Maintenance Free 23

 Battery Care..... 23

 Vehicle Range 24

Lead-Acid Battery Care and Maintenance 25

 Top 3 Battery Care Requirements 25

Maintenance..... 26

 Maintenance Schedule 26

Transportation 28

 Environment Conditions 28

Troubleshooting 29

Specifications 31

Parts Identification



No.	Name
1	Control panel
2	Basket
3	Folding
4	Lights
5	Tyres
6	Batteries
7	Freewheel lever
8	Seating
9	Width-adjustable armrests

Quick Start Guide

Assembly

1. When lifting always keep the back straight, bend the knees and use the lifting handles provided.
2. Ensure your freewheel mechanism is fully engaged, so your scooter can not move while assembling.
3. Set the tiller by rotating the Tiller folding knob while moving the tiller upwards. Remove the basket from the footboard and place on the bracket located on the front of the tiller.
4. Lift the seat onto the seat post and press down to ensure it is fully engaged.

Battery Charging

The battery **MUST** be charged for 12 hours before first use. Do not be tempted to use the scooter unless the battery has been fully charged as failure to do this will result in battery damage. Connect the battery charger to the mains supply and the charging socket located on the battery pack. Switch on the mains supply and then switch on the battery charger.

- **RED light** = Power On.
- **YELLOW Light** = Charging.
- **GREEN Light** = Charge Complete.

Charge the scooter overnight after each use to maintain battery condition.

Typical Use

Designed for use on footpaths, for crossing roads and shopping. It should not be driven through mud, water, snow, sand, loose gravel, long grass or any other unsound surfaces.

When using your mobility scooter, always follow the same road rules that apply to pedestrians. Ride on the footpath, preferably at walking speed, which is 2–3 kilometres per hour. You should also cross the road at safe places, such as traffic lights with pedestrian signals and at pedestrian crossings.

Control Functions

Your scooter is equipped with the following features that can be found on the tiller fascia panel:

- On/ Off Switch, Battery Gauge, Speed Control, head Light, Horn and Directional Control Levers.

If you have previously used or owned a scooter before you **MUST** still read this User Manual carefully to fully understand the controls and safety warnings.

Transporting

Your scooter may be disassembled quickly and simply for transportation:

1. Lift off the front basket.
2. Remove the seat, leaving the seat stem in position.
3. Place the basket on the floor mat appropriately.

4. Lower the tiller, using the folding knob, to its lowest setting locking in the basket. Make sure that there is at least 30mm between Tiller and battery pack.
5. using the lifting handles provided carefully lift the scooter safely and securely into the luggage compartment of the vehicle.

TIP: Using the front bumper and rear lifting handle provided carefully lift the scooter. To reassemble the scooter reverses the sequence above.

IMPORTANT: When reassembling the scooter, remember to insert the battery locking pin, because failure to do so may result in the batteries disengaging during use. Always secure your scooter parts before transportation. Remember to engage the drive unit by pushing the freewheel lever forwards to stop the scooter from moving.

Operation

Getting On Your Scooter

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



Image 1



Image 2



Image 3



Image 4



Image 5

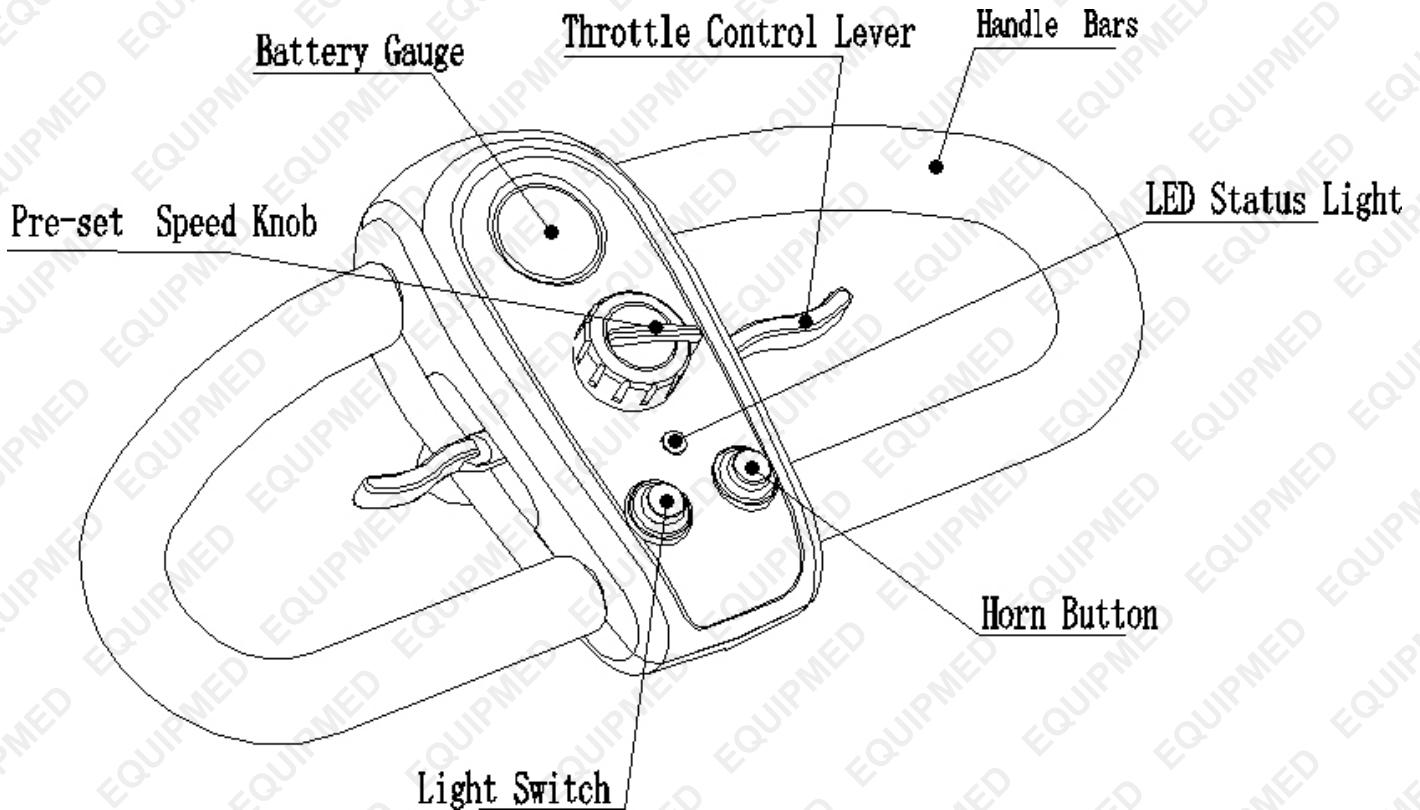
Getting Off Your Scooter

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 (**Image 2**).
3. Put BOTH feet on the ground and gently leave the seat using the arm rests to assist you out of the chair (**Image 3**).

Control Panel

Hand Controls

All of the drive controls for the scooter are to be found on the Tiller Control Box.



The 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.

The Battery Gauge

- This gives an approximation of battery charge and is illuminated for clarity.
- The gauge is “RED” empty, to “YELLOW” charge required, to “GREEN” charged.
- As the scooter moves over differing terrain, the Battery Gauge will dip up and down, this is normal. For a more accurate indication, stop the scooter and note the reading. In cold, damp weather the gauge will dip more often as the capacity and efficiency of all batteries drops in such conditions.

TIP: If your battery gauge has gone into the “RED” section you can increase your remaining range by reducing your maximum speed. Remember you **MUST** charge your battery overnight as soon as you can to prevent battery damage.

Operating the Lights

The lights are operated by pressing the blue button on the front fascia panel. Press the 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.

Tiller Control Functions

Throttle Lever

The throttle lever offers finger-tip control of your scooter.

It controls the speed as well as forward and reverse motion. To move the scooter in a FORWARD motion, PULL the lever with the RIGHT HAND or PUSH the lever with the LEFT THUMB (**Image 1**).

To move the scooter in a REVERSE motion, PULL the lever with the LEFT HAND or PUSH the lever with the RIGHT THUMB. The lever will return by itself when released and the scooter will slow to a stop (**Image 2**).

The more you move the lever, the more your speed increases up to its pre-set maximum. It is possible to operate your scooter using one side of the throttle lever. To do this you must PUSH and PULL on the chosen side of the throttle lever.



Image 1



Image 2



Image 3

Horn Button

Pressing the horn button operates an audible warning sound. Use this function to warn pedestrians of your presence when necessary (**Image 3**).

Key Switch



Image 4



Image 5



Image 6

The key switch switches the scooter ON and OFF. Please note that the key cannot be removed when it is in the ON position (**Image 4**).

Make sure that this switch is in the OFF position BEFORE Getting on or off the scooter. Remove the key to make sure the scooter is OFF (**Image 5**). Turning the key to OFF whilst driving will cause the scooter to stop very abruptly. This is not recommended except in emergency stop, as continual use of this function could result in damage to the scooter.

Off Board Charging Socket

The socket to connect the off-board charger is located on the battery pack (**Image 6**).

1. To use the socket, swivel the plastic cover to the left or right to reveal the socket connections. The charger output plug can now be connected ready to accept charge current from the battery charger.
2. After use, ensure that the plastic swivel cover is rotated back into place. This action helps prevent water from entering the socket connections.



WARNING: Do not attempt to charge your scooter outdoors or in damp/wet conditions. Failure to comply with this instruction may lead to a shock / fire hazard.

Freewheel Mechanism

A freewheel device disengages the power drive to allow manual operation (i.e. the scooter can be pushed at a walking pace). This safety function can prevent your scooter from being driven by someone illegally when parking. By pushing BACKWARD, the lever that is located on the right hand side of the scooter rear panel can engage the motor for you to drive (**Image 8**).



Image 8



WARNING: Use extreme caution in the freewheel mode especially on slopes/inclines.

Letting go of your scooter whilst it is in freewheel, can cause the scooter to roll unexpectedly. ALWAYS re-engage the freewheel device after use, failure to do so may result in injury.

Seat Removal and Adjustment

Removing the Seat

Please note that these instructions are to be used as a guide only.

1. Lift armrests upwards for ease of access (**Image 1**).
2. Stand behind the seat and fold the backrest down (**Image 2**).
3. Grasp the seat base and keeping a firm grip, lift the seat vertically, keeping your back straight. Bend knees if required (**Image 3**).
4. Place seat at desired location for stowage, keeping back posture straight at all times, bend knees where required (**Image 4**).

Note: Exercise caution when lifting the seat.



Image 1



Image 2



Image 3



Image 4

Seat Adjustment

1. To adjust seat height, remove the seat as described (**Image 5**).
2. Move the seat post to the new position and refit the seat pin.
3. Refit the seat (**Image 6**).



Image 5



Image 6

Armrest Adjustment

1. Pull the lock-pin out from the seat base (**Image 7**).
2. Loose the adjustable bolt (**Image 8**).
3. Moving the armrests to the desired position and re-tightening the thumbwheel knobs to adjust the width of the armrest.



Image 7



Image 8

Tiller, Battery and Charging

Tiller Adjustment

The scooter features an infinitely adjustable tiller which allows you to lock the tiller in the most comfortable driving position. This feature also lets you fold the tiller down fully, for transportation and stowage.

The folding knob is located on the bottom of the tiller.

1. Support the tiller with your left hand.
2. Rotate the folding knob anticlockwise to release the tiller (**Images 1 & 2**).
3. Move the tiller to the desired location.
4. Rotate the folding knob clockwise to lock the tiller (**Image 2**).



Image 1



Image 2



Image 3

Battery Removal

It is important to remove the seat and seat post first to allow better access to the batteries.

1. Lift battery vertically out of its battery tray using the handle provided (**Image 4**).
2. Remember to keep the knees bent and the back straight.

Battery Replacement

To replace the batteries, reverse the sequence above

Important: Remember to keep the knees bent and the back straight.

When reassembling the scooter, remember to insert the locking pin, because failure to do so may result in the batteries disengaging during use. Ensure the battery wells are free from dirt and grit - this will affect the performance of the battery contacts.

Off-Board Battery Charger

Your scooter is supplied with an off-board charging facility (**Image 5**).

Please note that only chargers with a capacity of minimum 3.0 Amps and maximum of 6.0 Amps supplied by your local authorized dealer should be used.

1. Switch your scooter off at the key switch (**Image 5**).
2. Swivel the charge connector cover located on the batter pack and connect the charger (**Image 6**).
3. Ensure that the charger plug is dry and intact before connecting it to the mains and switching it on.

4. A reset button is located on the battery.
5. Please check that the button is pressed in (**Image 7**).



Image 4



Image 5



Image 6

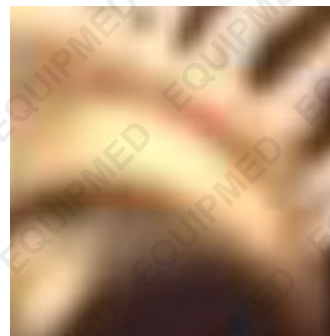


Image 7

Note: The charger is capable of charging from 240V to 100V, and 2Amp, off-board charger has 3 possible indications:

- **RED** = Power is on.
- **YELLOW** = Charging.
- **GREEN** = fully charged.

Ensure the scooter is switched off before commencing the charging process. After charging, always swivels the charging socket cover back into place. This helps prevent water getting into the socket (**Image 6**).

Please note that the scooter has a safety circuit to prevent it from being driven off during charging. 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.



The off-board charger must be kept dry in temperatures between -25°C and 40°C and not be subjected to mechanical damage. In all cases, the charger must only be repaired by an authorised dealer.

WARNING! You can only use the original charger from the supplier. Using other brand charger may shorten your warranty period, damage to your scooter, and may cause a fire. Use extreme caution to manage the battery and charger. Don't throw the battery into the fire.

You should manage the exhausted battery according to your local laws. Don't put the battery near any heating devices, which may cause the battery to explode. Don't press or subject the battery to intense pressure or pierce it, which may cause short circuit or overheating.

WARNING! NO SMOKING OR NAKED FLAMES WHEN CHARGING BATTERIES. DO NOT TOUCH BATTERY PACK TERMINALS WITH METAL OBJECTS. ONLY USE APPROVED REPLACEMENT BATTERIES. IF DAMAGE TO BATTERIES OR BATTERY BOXES IS EVIDENT, CONTACT YOUR LOCAL DEALER IMMEDIATELY - DO NOT ATTEMPT TO SERVICE THE BATTERIES. DEALER

WARNING! REMOVE METALLIC JEWELLERY WHEN WORKING WITH BATTERIES. WEAR GLOVES AND GOGGLES IF MOVING LEAKING BATTERIES. REPLACE DAMAGED OR LEAKING BATTERIES IMMEDIATELY.

Fuses

- There is a reset button as described previously. If a fault occurs, the button will pop out. Switch the scooter off, press the button in and switch the scooter back on.
- There is a 30A fuse fitted to the positive terminal of battery. These fuses must be replaced by an authorised service agent.

- There is also a 2.5A fuse fitted in the charger and a fuse in the mains plug of the battery charger. These fuses must be replaced by an authorised service agent.

Guidance for Safe Operation and Use

Basic Driving

It is advisable during the first few sessions of operating your scooter that the area around you is clear of obstacles and pedestrians.

Before operating your scooter, ensure the seat height and position has been adjusted to your satisfaction and the tiller angle has been set for optimum safety and comfort.

Please see the [Safety](#), [Getting on Your Scooter](#) and [Tiller Adjustment](#) sections.

1. Make sure you are properly seated on the scooter and that the speed control knob is turned fully to the left.
2. Turn the key switch to the “ON” position.
3. On the tiller, use the throttle lever as described earlier. You will gently accelerate. Release and you will gently stop. Practice these two basic functions until you get used to them.
4. Steering the scooter is easy and logical. Be sure to remember to allow enough clearance when turning corners so that the rear wheels clear any obstacle.
5. Shortcutting a pavement corner can cause the back wheel to go off the pavement, causing problems if the corner is very rough. Avoid this at all times by steering an exaggerated curve around the obstacle.
6. When steering in a tight spot, such as entering a doorway or when turning around, stop the scooter and then turn the handlebar to where you want to go, then apply power gently. This will make the scooter turn very sharply. It is also recommended that the pre-set speed is set to a slower setting to aid control in tight spots.
7. Reversing requires attention - **exercise caution when reversing especially down slopes**. When reversing, always turn the handlebars in the opposite direction to the way you want to go. The more you operate the throttle lever, the faster you will go. Reverse speed is 50% slower than forward speed. If the scooter does not move in reverse, carefully turn the speed control knob clockwise until the scooter moves gently backwards.

IMPORTANT: To preserve battery power there is a “sleep timer” feature built into the controller. Should the scooter be left ON, but not operated for 15 minutes, the scooter will go into “sleep mode”. To reset this, switch the scooter OFF and then back ON again.

NOTE: The user’s visual standards must be higher than 0.5.

Hill Climbing

- This scooter has been tested to climb an incline of no more than 10° with a maximum user weight of up to 120kg (264 lbs). Do not attempt to climb inclines in excess of this.
- Always reduce your speed when reversing on slopes. Do not reverse down hills in excess of 8° and always use extreme caution when reversing down hills.
- Do not attempt to drive along with the wheels at different levels, e.g. along the footpath and road simultaneously.
- Hill climbing capability and distance travelled between battery charges will be adversely affected by such things as:
 - The weight of the user.



- Terrain (e.g. grass or gravel).
- Steepness of hills.
- Level of charge and the age of the batteries.
- Extremes of temperature.
- Use and weight of accessories.

Traveling Across Slopes

Care should be taken traversing across a slope, always reduce your speed. Do not traverse across the face of a slope in excess of 10°.

NOTE: Where possible always travel up or down hills or ramps directly facing the slope of the hill. Do not traverse across the face of a slope in excess of 10°. Disregard of this advice could result in your scooter tipping over.

Braking

To bring the scooter to a standstill simply let go of the throttle control lever. Remember to keep both of your hands on the handlebars while the scooter is braking. Releasing the control lever will stop your scooter in seconds.

NOTE: Automatic braking is not instantaneous and will engage within 1/2 a wheel turn once the scooter has stopped.

Emergency Braking

In the unlikely event of an unwanted movement of the scooter or other emergency, switching off the key switch will bring the scooter to a stop.

Though very effective, emergency braking is extremely abrupt and must never be used under normal circumstances.

Letting go of the throttle lever will slow the scooter to a controlled stop.

Switching Off

The scooter must always be switched off at the key switch.

When the scooter is stowed or not in use for a long period of time, always charge the batteries for 12 hours and then disconnect the battery pack before storing. If the scooter is to be stored for a long period of time remove the fully charged battery packs and store, at or near room temperature, out of freezing conditions i.e. greater than 0°C.

Usage on Footpaths

When using your scooter on footpaths, always be aware of pedestrians and situations which might require extra care. For example, young children and pets. Remember, especially when driving in public places, to drive with caution and regard for others at all times. When manoeuvring in confined areas, including shops, ensure the minimum speed is selected. If you leave your scooter outside a shop, ensure that it does not obstruct the footpath or vehicular access. Always switch off and take your key with you.



Crossing Roads

Your scooter is not capable of mounting and dismounting curbs and other obstacles in excess of 45mm.

Remember before crossing the road, drive forwards and position the scooter at 90° to the road, stopping about 30 - 60cm (1 - 2 feet) away from the edge of the footpath. Check that it is clear to cross. Select a medium to high speed setting and when safe to do so, drive across without stopping.

NOTE: • Heavier users will require higher speed settings. • Low speed settings are recommended when traveling downhill, particularly in reverse. Also, reduce your speed when turning corners. The anti-tip devices fitted to the scooter must not be removed.

Turning corners

Always reduce your speed when turning corners, particularly when travelling downhill. Disregard of this advice could lead to your scooter tipping over.

Use of Mobile Phones

Mobile phones or two way radio devices must not be used while operating the vehicle. Use of mobile phones or two way radios can cause excessively strong electromagnetic fields. This may interfere with the vehicle's electronic systems. If mobile phones or mobile radios are required to be used, the vehicle must be brought to a halt and the power turned off before any such device is used.

Tyres

It is good practice to inspect the tyres for damage or wear regularly.

Emergency Braking

Turning off the power switch while moving will switch off the power causing immediate and full braking. This method of stopping is not recommended except in an emergency.

CAUTION! Routine use of emergency braking will cause damage to your scooter.

Freewheel Mechanism

CAUTION! Transporting the scooter along a slope in freewheel mode can be dangerous. Take extra care if this is necessary. Always re-engage the freewheel device after use. Never sit on your scooter whilst in freewheel since the scooter will no longer automatically stop.

Battery and Charging Information

General Information

Batteries are the power source for almost all of the modern mobility products available today. The design of batteries used in mobility products is significantly different from the batteries used to start a car for example. Car batteries are designed to release a large amount of power over a short period of time, while mobility batteries (commonly called deep cycle batteries) release their power evenly over a long period of time. Therefore, due to the lower production volumes and increased technological requirements, mobility batteries are typically more expensive. Commonly, two 12 volt batteries are used together in a mobility product giving a total voltage of 24 volts. The size of the battery (e.g. its available power) is expressed in amps per hour (e.g. 10amp/hr.). The higher the number, the bigger the battery size, weight and, potentially, the greater the distance you can travel.

Batteries



Beware! Battery fluids are corrosive, and care should be taken at all times to avoid contact with it. If it comes into contact with the skin or clothing, wash immediately with soap and water. If it comes into contact with the eyes, immediately wash them with running cold water for at least 10 minutes and seek medical attention.

- Your scooter is fitted with batteries that require no maintenance, other than regular charging.
- If a battery is physically damaged, please use extreme caution when handling it.
- In such an event, call your local dealer for assistance.
- Please do not dispose of batteries in normal waste, always recycle in accordance with local laws.

Maintenance Free

This is the type of battery used in the battery pack. It uses GEL electrolyte which is totally sealed within the battery's outer case. As the name implies, no maintenance is required other than regular charging. As the battery case is sealed, you can safely transport this type of battery without fear of acid spilling. Furthermore, they are approved for transportation on aircraft, boats and trains. It is recommended that the batteries are always transported and stored upright. Only use batteries supplied by an authorised dealer.

Battery Care



Do not expose any part of the battery to direct heat and when charging always place on a hard surface in a room with good ventilation. You should not charge the batteries in outdoor conditions. Do not smoke when in the vicinity of charging batteries. Exclude all naked flames from the area. Do not allow the batteries to freeze.

1. Only use the approved battery charger compatible with the vehicle to be charged.
2. Charge your batteries overnight, regardless of the amount of use your mobility device has had during the day.
3. Do not interrupt the charging cycle.
4. If your mobility device is not required for use, it should remain on charge. This will not damage the batteries, so long as the mains socket/plug is left switched on.

Do not leave the charger still connected to the batteries when the mains have been switched off. This will eventually deplete the battery charge.

5. 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.
6. Failure to allow for full recharge will damage the batteries and can lead to shortened distances and permanent failure.
7. 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.

Remember to remove the plug from your scooter when charger is off, to prevent driving away whilst attached. The scooter cannot be operated when being charged.

8. 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 jewellery (e.g. watches, necklaces etc.) before checking the batteries.

9. Following all the eight points above should result in a healthier battery, greater range for the vehicle user and a longer life for your batteries.




Vehicle Range

- Most manufacturers of mobility products state the range of their vehicles either in the sales literature or within the User Manual.
- The range stated sometimes differs from manufacturer to manufacturer even though the battery size is the same. We measure the range of our vehicles in a consistent and uniform manner, but variances still occur due to motor efficiencies and overall product load weight.
- The range figures are calculated to I.S.O. Standard 7176, Part 4: Scooter Energy Consumption Theoretical Range.
- The range figures stated should be seen as a theoretical maximum and could be reduced if any single, or combination, of the following circumstances occur:
 - User weight heavier than 120kg.
 - Batteries whose age and condition are less than perfect.
 - The terrain is difficult or unsuitable e.g. very hilly, sloping, muddy ground, gravel, grass, snow and ice.
 - The vehicle climbs ramps regularly.
 - The ambient temperature is very hot or very cold.
 - Lots of start/stop driving.
 - Also, thick pile carpets within the home can affect range.
- Always check that the batteries are sufficiently charged before setting off.
- Always ensure that your batteries are in good condition and that no leakage has occurred.
- Do not expose any part of your charger, battery or scooter to direct heat (i.e. gas fires or naked flame).

NOTE: 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.

Lead-Acid Battery Care and Maintenance

Top 3 Battery Care Requirements

10. **Charge battery before first use.** The battery may arrive with some charge, regardless of this the battery must be charged for 12 hours on the initial charge and 12 hours for each subsequent charge. 
 11. **Charge battery immediately when it is depleted.** Do not store a depleted battery. This will permanently impact the life of the battery. If the battery is going to be stored for a period of time, fully charge the battery before storing. 
 12. **Disconnect battery when not in use.** To prolong the life of a battery, disconnect it from the unit when not in use. Disconnect chargers from the battery once charged. 
-

To ensure the battery maintains optimum performance, follow the guidelines outlined below.

- For best results, charge batteries in temperatures between 10°C and 30°C
- When battery is charged, disconnect the charger from the power supply and remove the battery from the charger.
- Inspect the terminals, screws, clamps and cables for breakage, damage or loose connections. These should be clean, tight and free of corrosion.
- Use only with the battery charger specified by the manufacturer.
- Ensure that the battery charger electrical cord is not subjected to damage or stress. Do not operate the battery charger if it has a damaged electrical cord or plug.
- Do not use the charger in wet areas or expose it to rain or water.
- Keep the battery clean, dry, free of dirt and grime. A dirty battery can discharge across the grime on top of the battery casing.
- Apply a thin coating of high temperature grease to posts and cable connections for added protection.
- Inspect the battery case for obvious signs of physical damage or warpage. This usually indicates the battery has been overheated or has been overcharged.
- Batteries can explode in the presence of an ignition source, such as a pilot light. To reduce the risk of serious personal injury, never use any cordless product in the presence of open flame. Exploding batteries can propel debris and chemicals.
- Do not open the battery – danger of short-circuiting and/or explosion.
- Do not attempt to destroy or disassemble the battery pack or remove any of its components.
- Do not touch the battery terminals with metal objects and/or body parts as short-circuit and/or personal injury may result.
- Explosion hazard – protect the battery against heat; for example, direct sunlight and fire. Do not store batteries in vehicles or locations subject to heat.
- Explosion hazard – do not open and/or short-circuit the battery.
- Poison hazard – battery leakage (liquid ejection). Under extreme conditions, liquid may be ejected from the battery – avoid contact. If contact accidentally occurs, immediately seek medical attention, and flush with water. If liquid contacts eyes, immediately seek medical attention, flush with clean water for at least 10 minutes. Liquid ejected from the battery may cause irritation or burns.
- Dispose of non-serviceable batteries in an environmentally responsible manner and according to local regulations.

Failure to adhere to the requirements above may result in the battery becoming inoperative or battery life being reduced. In extreme cases or abuse, battery overheating, or fire may result.

Maintenance

Maintenance Schedule

The following table gives an indication as to when routine maintenance checks should be made.

<i>There is no service manual available. Maintenance, fault finding, and servicing should be carried out by an authorised dealer unless otherwise indicated</i>	Daily	Weekly	Quarterly	Annually
The checks below can be carried out by the user				
Battery charge check (Fig. C) Look at battery charge indicator on tiller before use to ensure batteries carefully charged.	✓			
Wipe over with a damp cloth Use a damp soft cloth and mild detergent on panels, battery wells, tiller and seat.		✓		
Check tyres Each tyre should be free of debris, oil, deep cuts or distortion.		✓		
Long overnight battery charge Please ensure that the batteries are charged for a minimum of 8 hours.		✓		
Check tyres for wear (See Fig. A and Fig. B) Look at the tyres to ensure that the tread is visible and continuous.			✓	
The checks below must be carried out by an authorised dealer				
Seat swivel, seat slide (where fitted)				✓
Inspection of wiring and connectors for chafing and wear				✓
Battery terminals				✓
Clean and protect with petroleum jelly.				
Ensure parking brake (where fitted) is correctly adjusted				✓
Check stabilizer wheels for wear				✓
Inspect motor brushes				✓
Full service by dealer				✓



Figure A



Figure B

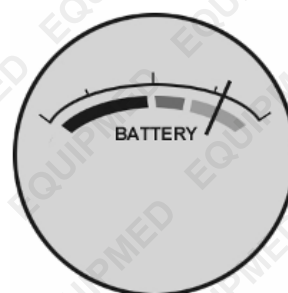


Figure C

Storage

When storing your scooter for long periods (in excess of one week), charge batteries for 12 hours and then disconnect the batteries to minimize battery discharge.

Electronic Faults

- Do not attempt to investigate faults in the control box, the control pod or charger as the design and set up of the electronics is of a safety critical nature.
- Spare parts and service are available from authorised dealers.

Replacing LED

Where fitted.

Caution! Disconnect batteries before changing LED.

Wheels

Wheels should only be removed and refitted by an authorised dealer.

Transportation

Your scooter may be disassembled quickly and simply for transportation.

1. Switch off the scooter, make sure the motor is disengaged.
2. Remove the basket.
3. Remove the seat, leaving the seat stem in position.
4. Place the basket on the floor mat appropriately.
5. Lower the tiller, using the folding knob, to its lowest setting locking in the basket. Make sure that there is at least 30mm between tiller and battery pack.



6. Using the lifting handles provided, carefully lift the scooter safely and securely into the luggage compartment of the vehicle.



TIP: • Please put all the parts after disassembling into the original carton to ensure safe transportation. • Perform the above steps in reverse order to reassemble your scooter.

IMPORTANT: When reassembling the scooter, remember to insert the battery locking pin, because failure to do so may result in the batteries disengaging during use. Always secure your scooter parts before transportation. Remember to engage the drive unit by pushing the freewheel lever forwards to stop the scooter from moving. Don't sit on the scooter during transportation.

Environment Conditions

The mobility scooters can be transported by common transportation vehicles, but you need to prevent them from strong impact, vibrating or any snow or rain.

The packaged scooters should be put in an environment between -20 to 45°C, and humidity less than 93%, no congealed or corrosive air and with good ventilation.

Troubleshooting

SYMPTON	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 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
Battery pack not charging, or battery gauge shows empty after charging	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

DO NOT ATTEMPT TO OPEN ANY PARTS OF THE SCOOTER CONTROL SYSTEM, BATTERY PACK, LOOMS, PLUGS OR BATTERY CHARGER.

THE CONTROL SYSTEM IS SAFETY CRITICAL AND THERE ARE NO USER SERVICEABLE PARTS.

Your scooter is fitted with a self-diagnostic controller that will give a sequence of audible beeps when an error is detected to help you, or the authorized service agent, determine the drive electronics fault.

Should you switch on the scooter and hear the beeps note the number of beeps, separated by a short delay between each sequence, and refer to the table below.

NUMBER OF BEEPS	MEANING	POSSIBLE CAUSE	SOLUTION
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	Too higher voltage, while overloading or climbing	Decrease speed while climbing Check battery connection
4	Electric current over limit	electric current over limit of motor	Check motor and relative wiring connections Switch off and wait a few minutes and Switch on.
5	Freewheel level issue	The freewheel level is on	Check the relative wiring of the freewheel level Confirm the level is on the correct position
6	Accelerate the variable resistor issue	When turning on the controller, accelerate variable resistor isn't on the neutral position	Make sure the accelerate variable resistor is on the neutral position Accelerate variable resistor may need to recalibration.
7	Speed limited variable resistor issue	accelerate variable resistor, Speed limited variable resistor or other wiring issue	Check all the accelerate variable resistor, Speed limited variable resistor or other wiring
8	Motor voltage issue	Motor and other relative wirings issue	Check Motor and other relative wirings
9	Other issues	Some inner issues in the controller	Check all the connection and wirings
10	Pushing/ Slipping issues	The speed of pushing or slipping is over limited	Switch off and on the controller

Specifications

Max Forward Speed	8km/h
Driving Range	15-25km
Max Driving Gradient	10°
Weight Capacity	120kg
Suspension	Rear
Tyres	9x3" Flat-Free
Brakes	Electromagnetic
Batteries	12V 12Ah (x2)
Charger	240V
Charging Time	6 hours
Motor	24V/300W



Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

