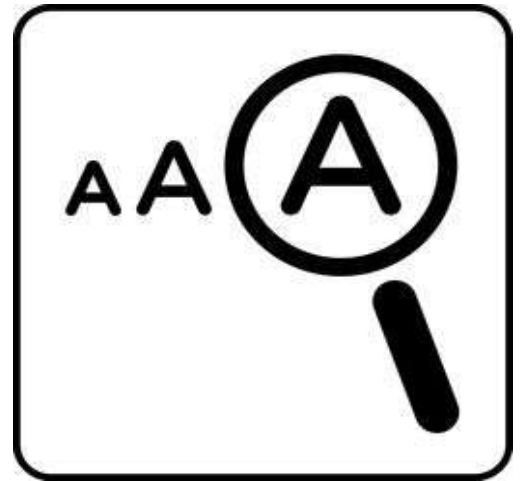


HORIZON MOBILITY



OWNERS MANUAL

* Scooter illustrated has the following options: special paint, black wheels, intermediate tyres, accessory bracket, rear locking box, suspension seat, badge bar, alarm



If you are visually impaired a PDF copy of this User Manual can be viewed or downloaded from:

www.horizonmobility.com



WARNING!

If you are visually impaired or require large text then Horizon Mobility Ltd ask you to read the local eyesight requirements for use of a mobility vehicle on the public road and strongly recommend that you seek a clinical eyesight assessment before using this vehicle.

The mobility vehicle that this manual is applicable to may be identified by the metal plate attached to the base of the steering column on your vehicle.

This plate contains the Batch Number, Model and Serial Number of the vehicle, together with the manufacturers address and country of manufacture.

1. Introduction

Thank you for choosing the Aztec 3 from Horizon Mobility, manufactured in the UK using only the highest quality components.

This mobility vehicle is a medical device and may only be used by a qualifying person in accordance with the regulations of the Country in which it is being used.

This Manual is to offer guidance, help and instruction in the correct use, care and maintenance of this product.

If the instructions contained in this manual are not read and followed, or the vehicle is not properly maintained and cared for fully in accordance with the guidance given in this manual, it may cause a danger or injury to both the user and third parties.

This vehicle should not be used by children and should not be used for the transport of more than one person unless specifically adapted for multiple occupants and legally allowed in the country in which it is being used.








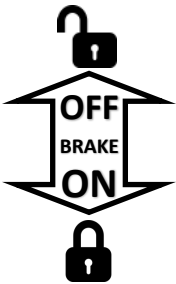

Horizon Mobility try to ensure that you our customers are happy with the products you use and the service you receive, therefore we are continuously developing our range to improve their quality and serviceability. Changes may therefore occur in the product described in this manual with regard to the technology, shape & equipment. Therefore no claims can be construed from the data or pictures contained in this user's manual.

For further information please contact your local dealer or if one is not available in your area please contact the manufacturer:

Horizon Mobility Ltd
Mobility House
Formal Industrial Park
Tewkesbury
GL20 8GY

Horizon Mobility declares that this scooters conform to the 93/42/EEC, amended by 2008/47/EC guidelines.

2. Product and Document Labels

 DANGER!	Advice of potential serious injury or death to user if the advise is not followed
 WARNING!	Advice of potential injury to user if the advise is not followed
 CAUTION!	Advice of potential serious damage to the vehicle if the advise is not followed
	Reference to Instructions for Use or a referenced or related document
	Suggested tie-down point for transport. Vehicle must not be used as a seat in a motor vehicle
	 DANGER! Vehicle is NOT crash tested and must not be used as a seat in a motor vehicle
	Manual brake release lever. Lever UP = Brake OFF Lever DOWN = Brake ON  DANGER! Never sit on the scooter with the parking brake lever in the OFF position
	Vehicle Identification Label Located on the rear base of the steering column.

3. UK Statutory Regulations

A mobility scooter is defined as an Invalid Carriage and must comply with the requirements set out in The Chronically Sick & Disabled Act 1970, "The Use of Invalid Carriages on Highways Regulations 1988" together with "Use of Invalid Carriages on Highways Regulations" (Amendment) 2015 and various other National Acts.

Road Traffic Act 1988

A "Class 3 invalid carriage" means a mechanically propelled invalid carriage which is so constructed or adapted as to be capable of exceeding a speed of 4 miles per hour but in normal operation is incapable of exceeding a speed of 8 miles per hour on a level surface under its own power.

A Class 3 invalid carriage must not be operated by a person under the age of 14 years old.

3.1 Unladen Weight

The unladen weight of a Class 3 invalid carriage shall not exceed 150 kilograms, inclusive of the weight of standard accumulators (batteries) but excluding tools and accessories. Though the 2015 Amendment allows an extra 50 kilograms for equipment that is necessary for clinical, postural, hygienic, nursing or caring of the actual user.

3.2 Width

The overall width of a Class 3 invalid carriage shall not exceed 0.85 metres.

3.3 Brakes

When an invalid carriage is not being propelled, or is left unattended, it shall be capable of being held stationary indefinitely in all conditions of use on a gradient of at least 1 in 5

3.4 Speed device & speed indicator

A Class 3 invalid carriage shall be fitted with a device which is capable of limiting the maximum speed of the invalid carriage to 4 miles per hour on the level under its own power and which can be operated by the user;

In these regulations, "a speed indicator" means a device fitted to an invalid carriage for the purpose of indicating to the operator of the invalid carriage whether the device for limiting the speed to 4mph is in operation. The function of this device must be able to be seen in all conditions, including in the dark so must be illuminated.

3.5 Audible Warning Instrument

Class 3 invalid carriages shall be fitted with a horn, not being a reversing alarm or a 2-tone horn.

3.6 Rear view mirror

All Class 3 invalid carriages (devices) shall be fitted either internally or externally with a suitable rear view mirror.

Any rear view mirror fitted to an invalid carriage shall be so constructed or treated that if fractured it does not fly into fragments likely to cause severe cuts.

3.7 Lighting

The lighting systems and reflectors are all correctly E-Marked and fitted in accordance with The Road Vehicle Lighting Regulations 1989, No. 1976 and The Road Vehicle Lighting (Amendment) Regulations 2005 No.: 2559.

Road Traffic Act (Amendment) 2015

3.8 Unladen Weight

The Road Traffic Act amendment introduced in 2015. Use of Invalid Carriages on Highways (Amendment) (England and Scotland) Regulations 2015 now states that:

A Class 1 or 2 invalid carriage shall not exceed 113.4 kilograms, while a Class 3 invalid carriage shall not exceed 150 kilograms, but if the invalid carriage satisfies the above weight requirements for its class .i.e. 113.4kg or 150kgs, excluding the weight of any added necessary user equipment, then where necessary user equipment for the specific clinical, postural, caring, hygienic or nursing needs of the user have been added to the invalid carriage then the gross weight, inclusive of the weight of standard accumulators (batteries) but excluding tools and accessories shall not exceed 200 kilograms.

This amendment applies to England and Scotland only.

The Chronically Sick & Disabled Act 1970

In the case of a vehicle which is an invalid carriage complying with the prescribed requirements and which is being used in accordance with prescribed conditions, no statutory provision prohibiting in any way or restricting the use of footways shall prohibit or restrict the use of that vehicle on a footway;

If the vehicle is mechanically propelled, it shall be treated for the purposes of the Road Traffic Act 1988 and Road Traffic Regulation Act 1984, except Section 22A of that Act (causing danger to other road users by interfering with motor vehicles etc), and the Road Traffic Offenders Act 1988, not being a motor vehicle; and Sections 1 to 4, 21, 34, 163, 170 & 181 of Road Traffic Act 1988 shall not apply whether or not the invalid carriage is mechanically propelled, it shall be exempted from requirements of Section 83 of the Road Traffic Act 1988.

An "invalid carriage" means a vehicle, whether it is mechanically propelled or not, constructed or adapted for use for the carriage of a single person, being a person suffering from some physical defect or disability.

NOTE: The Aztec is designed for use on a solid surface only, both indoor and outdoor, not in sand, gravel or standing water where possible. The Aztec is designed exclusively for the carriage of a **single seated person**;; at no time may a second person be carried on the scooter.

NOTE: Higher speeds may be permitted in other countries or on private land.

If your vehicle is fitted with a Mode 3 function to allow the vehicle to exceed 8mph, operation of this device may only be used on private land, not on a footpath or public road, as the vehicle would no longer comply with the Road Traffic Act while in this mode.

4. CE Regulations

This vehicle corresponds with the requirements of EC Directive 93/42 EWG. However interference from high frequency radiation emitting from radar, broadcasting, stations, radio telephones and certain retail store security equipment, cannot be excluded.

If any interference or unexpected and uncontrolled operation occurs, stop the vehicle and turn it off immediately.

This vehicle is designed and built in accordance with the standards set out in EN 12182 and EN 12184, and tested in accordance with ISO 7176.

The Aztec is an electrically propelled vehicle that is designed to be as environmentally friendly and be almost fully recyclable. The design incorporates as little plastic as possible and the majority (more than 85%) of the vehicle components are recyclable

The vehicle is designed and constructed to improve the mobility of persons with age or health related restrictions and meets the demands of handicapped people according to EN 614-1.

Vehicle Range:

It is a legal requirement that all manufacturers state the range of their products in their literature or Owners Manuals. There is a common European Standard for measuring the range of a mobility vehicle; this is set out in **ISO 7176 Part 4: Energy consumption of electric wheelchairs and scooters for determination of theoretical range.**

The tests are carried out in strictly controlled environmental condition with new, fully charged batteries, on a level test surface.

The range figures stated should be considered as a theoretical maximum distance obtainable and not what you will generally obtain from your Aztec in everyday use.

Range will reduce due to battery age and state of charge, hilly terrain or slopes, grass, mud or snow, regular kerb climbing, low air temperature, incorrect tyre pressures, stop/start driving or vehicle due a service.

The technical considerations for range may seem daunting and complicated but please remember that battery size and motor efficiency will be the two main factors in determining range. Your vehicle has various battery capacity options, these can give probably the maximum battery capacity available on a mobility vehicle today; coupled with a highly efficient 24volt transaxle drive system you should find the performance and range of your vehicle is sufficient for the majority of your everyday needs.

5. Use

In accordance with European standard EN 12184 The Aztec is a **Class C** device, though for the UK, in accordance with **THE ROAD TRAFFIC ACT "Use of Invalid Carriages on Highways Regulations 1988"** it is a **Class 3** device. These are usually large in size, not necessarily intended for indoor use but capable of travelling over longer distances and of negotiating outdoor obstacles.

The Aztec is designed for use in places where there are pavements, pedestrian paths or areas that have a hard firm surface. Sand, grass and other soft surfaces may affect the performance, stability and the range of the scooter. The safe limit for slopes and obstacles must always be observed.

The maximum user weight limit, including both the weight of the user plus the weight of accessories or objects such as shopping must be observed at all times. This weight limit is marked on the Control head plus the Vehicle Identification Label together with any user material, including this manual.

NOTE: It is dependant on the specific Aztec model, so always check.

The Aztec may be used on public roads when in compliance with local country traffic law. It is only intended for the use of a person who has difficulty in walking or limited mobility and is for their own personal use. A passenger is not permitted unless local country law permits, the UK **DOES NOT** permit the carrying of a passenger.

Warranty is only valid and supported by Horizon Mobility if the scooter is being used for its intended purpose and within the specified conditions.



CAUTION!

DO NOT fit unauthorised 3rd party components, only fit 3rd party components officially approved by Horizon Mobility. Any unauthorised modifications made to the scooter will void the warranty and could cause a potential hazard to the user and/or third parties. Only ever fit parts and accessories that are supplied or approved by Horizon Mobility.

The Aztec has an intended lifetime of 5 years if used and maintained in accordance with the owners manual.

6. Application

A mobility scooter is an easy vehicle to use, simple steering and automatic braking make it suitable for people with limited mobility such as joint pain or stiffness due to Arthritis or Rheumatism. Difficulty breathing due to Respiratory or Heart Conditions. Difficulty walking due to Stroke or Obesity.

When considering the provision of a scooter and any specific options required the following should be taken into account:

- Body size, height, leg length and weight plus the distribution of the body weight.
- The weight and size of any accessories, carry on or stowed items must be added to the users body weight and together must not exceed the maximum load for the scooter.
- The user's physical abilities and psychological constitution.
- The users age, their living conditions together with the environment in which the scooter is to be used, stored and charged.

If in doubt, please consult a health care professional to ensure the user is not exposed to unacceptable risks. A risk assessment may be required in certain circumstances.

The Aztec has been designed to be easy to adjust, simple to service, durable but easy to refurbish. The Aztec is constructed almost totally from metal, including bodywork and frame, this means it fully meets the requirements for recycling.

Materials used in the manufacture of the Aztec are of the highest quality, including the non-toxic colour powder coat and lacquer finish

Horizon Mobility reserves the right to change the design and specifications of the Aztec without notice. Further, not all features and options offered are compatible with all configurations or models of the scooter and may not be backward compatible with older models.

All dimensions are approximate and may be subject to change.



Important:

Do not use your scooter until you have read and understood this manual fully.

7. Contents:

1. Introduction
2. Product and Document Labels
3. UK Statutory Regulations
4. CE Regulations
5. Use
6. Application
7. Contents
8. Delivery
9. Product Information
10. How to Use This Manual
11. Features
12. Quick Start Guide
13. Safety Warnings and Operating Tips
14. Instructions for Use
15. Options
16. Fuses and Bulbs
17. Batteries and Charging
18. Wheels and Tyres
19. Cleaning
20. Transportation and Storage
21. Disposal and Recycling
22. Specification
23. Service and Maintenance
24. Fault Codes on LCD Display
25. Guarantee
26. Vehicle Identification Label

NOTE: Please keep details of your local dealer or service agent's address and telephone number.

In the event of a breakdown, contact them and try to give all relevant details so they can help you quickly.

8. Delivery

Your new Aztec is built to the highest standards and

checked carefully prior to despatch from our factory.

Your Dealer or delivery personnel should carry out a complete product familiarisation and instruction as part of their hand over, including a full check and demonstration of all major vehicle functions.

Please ensure that your vehicle is in accordance with your original order documentation, including any accessories specified on that order.

Provided you follow the simple guides contained in this manual your Aztec vehicle should provide many miles of motoring pleasure. Therefore it is very important you the operator read this entire manual carefully before first using your vehicle, and keep it with you when you are out as a quick and easy reference guide.

9. Product Information:

Horizon Mobility want you the user to get the most out of your Aztec scooter.

This Owner's Manual will familiarise you with the features of your scooter. It contains tips for use and general care in addition to information on the high quality standards which we adhere to and details about the guarantee.

Following the guidelines for the maintenance and cleaning your scooter will maintain it in first class condition and give you many happy motoring miles.

The Aztec was designed for comfort, safety and durability, it has been exhaustively researched and tested by Horizon Mobility to meet the standards required for a Class C mobility vehicle in European Standard EN 12184.

It is intended for the use of persons of all ages who may have difficulty walking distances or for periods of time, though in the UK it is restricted to a person of at least 14 years old.

The Aztec has been designed and tested for the safe and comfortable transport a user weighing no more than 203 kilograms (450 lbs), including the weight of shopping or other secondary loads being carried on the vehicle. Exceeding the maximum weight limit could detrimentally effect the safety and performance of the vehicle.

NOTE: Using your scooter on public footways and public roads may be subject to the applicable legal requirements of National Road Laws and or Road Traffic Laws.

It is very important to read and understand all the relevant sections of the owner's manual if making any minor adjustments. For more complex changes or adjustments please consult the Technical Manual or contact your local Horizon Mobility authorised dealer.

10. How to Use This Manual

10.1 Introduction:

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

NOTE : Horizon Mobility reserves the right to alter without notice any weights, dimensions or other technical data shown in this manual. All capacities, figures and dimensions shown in this manual are approximate and do not constitute specifications.

10.2 Guarantee:

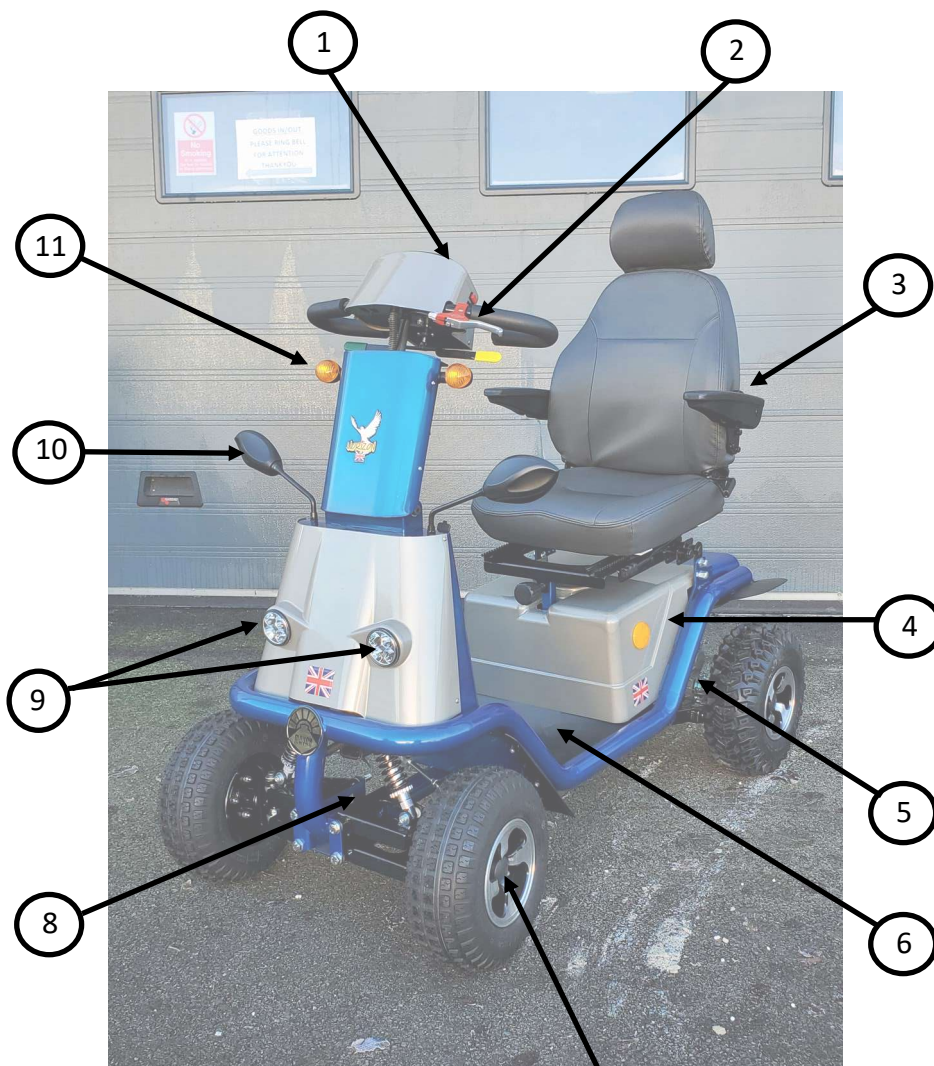
Please fill in the relevant details and return to us to register your entitlement. **This in no way affects your Statutory Rights.**

10.3 Conditions of Warranty/Service/Repair:

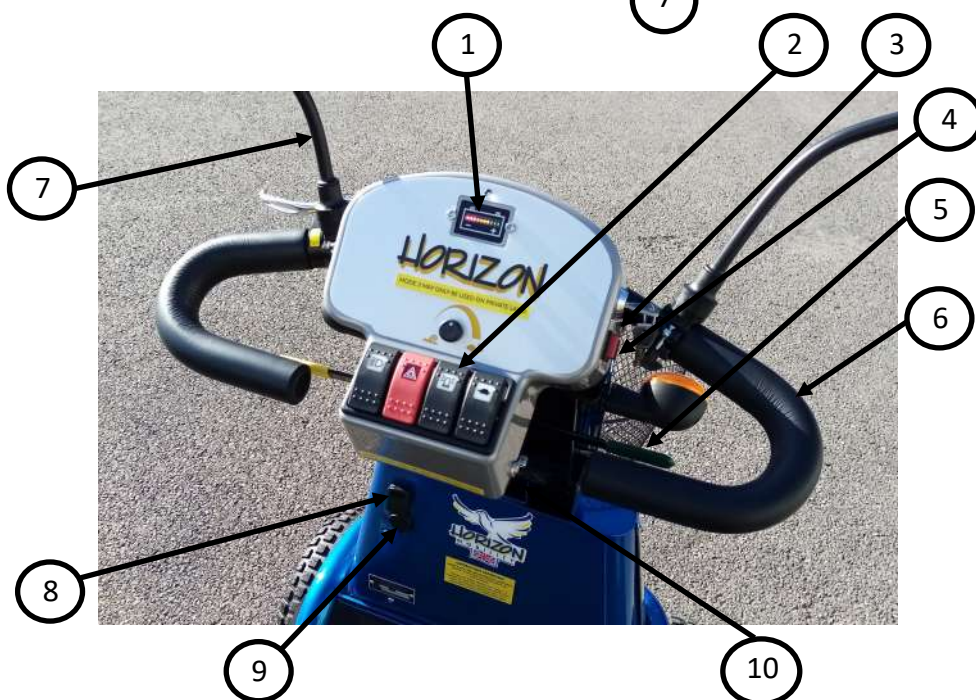
1. The repair or replacement will be carried out by Horizon Mobility or an authorised dealer of Horizon Mobility.
 2. Should your scooter require attention under these arrangements, notify the designated Horizon Mobility dealer or Horizon Mobility immediately, making sure to give full details about the nature of your problem. Should the user be operating the scooter away from the locality of a Horizon Mobility Dealer, any work under the "Warranty Conditions" may only be carried out by another service agent designated by Horizon Mobility.
 3. Should parts require repair or replacement, as a result of a specific manufacturing or material defect, within **24 months**, (batteries 6 months), from the date on which the possession of the vehicle was physically transferred to the first original purchaser, and subject to it remaining within the same ownership, the company will supply free of charge replacement, (or where applicable) repaired parts, to the authorised dealer or to fit these parts themselves.
- If you are unsure who your local dealer is, please contact Horizon Mobility using the details in this manual.
4. Any repaired or replaced part will benefit from the balance of the warranty period applicable to the scooter only.
 5. Parts replaced after the original warranty has expired are covered for a further 12 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 original manufacturing defect. These items include, amongst others; upholstery, tyres, inner tubes, batteries etc.
 7. The above warranty conditions apply to all scooter parts for models purchased at full retail price from Horizon Mobility or an authorised dealer.
 8. Under normal circumstances, responsibility will not be accepted where the scooter has been the subject of repair or replacement as a direct result of the following;
 - The scooter or part having not been maintained or serviced in accordance with the appropriate recommendations of Horizon Mobility, either as stated in the Owner's Manual and/or Service Manual. Or the failure to use only specified original equipment parts.
 - The scooter or part having been damaged by neglect, accident or improper use.
 - The scooter or part having been altered from the manufacturer's specifications, or repairs having been attempted prior to the service agent being notified.
 9. Warranty can only be provided if the product is used under the specified conditions and for the intended purpose.

11. Features

1. Dashboard
2. Tiller Adjustment Lever
3. Flip-up Armrests
4. Battery Cover
5. Rear Adjustable Suspension
6. Foot-board
7. Alloy Wheels + Tyres
8. Front Suspension
9. LED Headlight
10. Rear View Mirrors
11. LED Direction Indicators



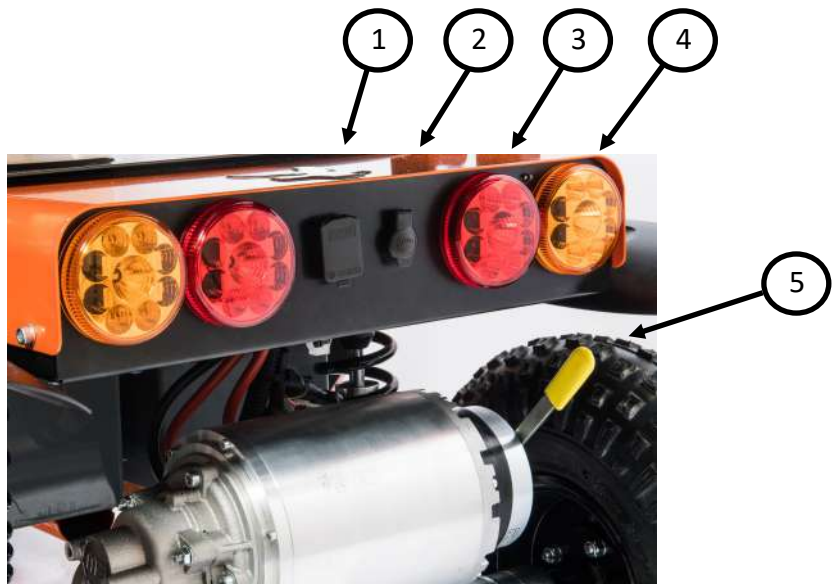
1. Battery Meter
2. Switches
3. Horn Button
4. Indicator Button
5. Wig-Wag Throttle
6. Handgrip
7. Mirror
8. Charger Socket
9. USB & Voltage Display
10. Key Switch



Horizon Mobility are committed to the ongoing improvement to its products, they reserves the right therefore to change the specifications and design of the scooter without notice.

NOTE: Not all features and options offered are compatible with all configurations of the mobility scooter.

1. Charging Socket
2. Beacon Power Socket
3. LED High Intensity Rear Lights
4. LED High Intensity Indicators
5. Freewheel Lever



11.1 Seat adjustment

NOTE: Do not attempt to adjust the seat while the vehicle is in motion.

11.1.1. (Standard Seat)

The Aztec has an ergonomically designed, high back weatherproof seat with the following functions.

1. Flip Up Angle Adjustable Armrests
2. Folding Angle Adjustable Backrest
3. Forward Backward Adjustment



11.1.2. (Optional Suspension Seat)

The Aztec has an optional ergonomically designed, high back weatherproof seat with the following functions:

1. Built-in Lap-Belt
2. Angle adjustable Flip Up Armrests
3. Adjustable angle Backrest
4. "Dial-A-Weight" fully adjustable Seat Suspension
5. Forward-Rearward adjustable Slide x 2



11.1.3. (Optional HD Seat)

The Aztec has an optional ergonomically designed, high back weatherproof heavy duty seat with the following functions:

1. Flip Up Armrests
2. Folding Backrest
3. Forward-Rearward adjustment



11.2 Seat Removal

To remove seat, depending on the model, undo and remove the hand-wheel **(1)** under front edge of the seat. Lift front of seat about 45 degrees or until the rear locating hooks clear, once lifted clear pull seat forward and up.

To replace seat, tilt seat with back of plate down until the rear mounting hooks locate on the rear mounting bar on vehicle, lower seat until horizontal then insert and do up the hand-wheel under front edge of seat.

NOTE: Only ever hold the seat by the front edge and the top of the back when removing or replacing it on the vehicle.

Depending on seat specified, it may be very heavy and not something the user should consider lifting on their own.



11.3 Battery Access

To access the batteries, first follow procedure in (11.2) to remove the seat.

Remove the battery cover by grasping front bottom edge and pulling firmly to separate “hook and loop” fastening tape.

The batteries are clamped into the scooter by an M8 nylon locking nut holding down a metal bar. Once the bar is removed you can move or lift out the batteries as required.



DANGER!

To do this first undo nylon locking nut holding down the battery clamp bar, before undoing the battery terminals, taking extreme care not to touch any two terminals together with your spanner, socket driver or battery clamp, as this may result in a short circuit causing injury such as severe burns. Permanent damage to the vehicle or batteries may also occur. It is suggested that you first remove the lead across the two front terminals that contains the 100A fuse, followed by the two rear terminals. When you are reconnecting the batteries, ensure the correct wires go to the correct terminals and always follow the disconnection advise in reverse, connecting the front fused terminals last.



11.4. Display Panel

The Aztec display is visible both by day and night as it is illuminated in 3 colours.

11.4.1. Battery Indicator

A multi segment display bar gives the battery state of charge, the right (Green) being full and the Left (Red) being empty.

11.4.6. Fault Warning Indicator Lights

The Battery Display will also display a number of Faults that can occur, such as the charger still being inserted or the brake lever at the rear being raised in the off position.

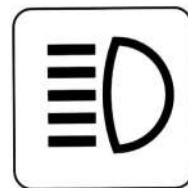
11.4.7. Fault Warning Codes

See Section 27 for list of Warning or Fault Messages



11.5. Light Switch

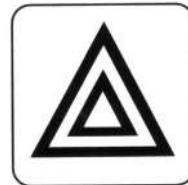
Operate by pressing the forward edge of the left switch down. Warning lights will illuminate on the switch and display panel.



11.6. Hazard Warning Switch

Operate by pressing the forward edge of the red switch down. Warning lights will illuminate on the switch and display panel.

NOTE: Hazard Warning lights will operate using this switch, even without the ignition switched on.



11.7. Speed Limit Adjustment

On the centre of your dash panel there is a small black knob that by rotating clockwise will increase the maximum speed in the Mode selected.



11.8. Speed Mode Select Switches

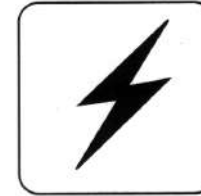
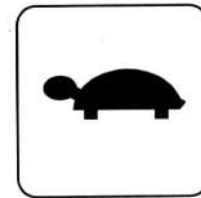
Depending on Model, your Aztec may have optional 3 operating Modes;

Mode 1 – 4mph: both the “turtle” and the “lightening” switches are off and not illuminated.

Mode 2 – 8mph: the far right “turtle switch is on by pressing the forward edge down. Warning lights will illuminate on the switch.

Mode 3 – 12mph (Yellow switch, if fitted, overrides other modes) the “lightening” switch is operated by pressing the forward edge down. Warning lights will illuminate on the switch and display panel

Note: Depending on your country of use, Mode 3 is only for use on Private Land and must not be used under any circumstance on Public Roads or Public Rights of Way.



11.9. Beacon Switch

If the Mode 3 option (yellow Switch) is not fitted then the switch operates the optional Beacon if fitted.

11.9. Indicator Switches

On either side of your dashboard is a red press in switch, the left one operates the left indicators, the right one the right indicators. A warning flashing arrow symbol illuminates on the display panel to warn you of their function, to cancel this press the corresponding button a second time.



11.10. Horn (Audible Warning) Switch

Below the indicator buttons on each side of the dashboard is a black horn button, press and hold to sound horn.

Note: Please read and observe the current road Regulations regarding the use of a vehicles audible warning device.

11.11. Key Switch

To operate the key switch located on the left side of your dashboard, insert the key and turn clockwise.

Note: always turn off and remove the key before mounting or dismounting the vehicle.



11.12. Throttle Controls

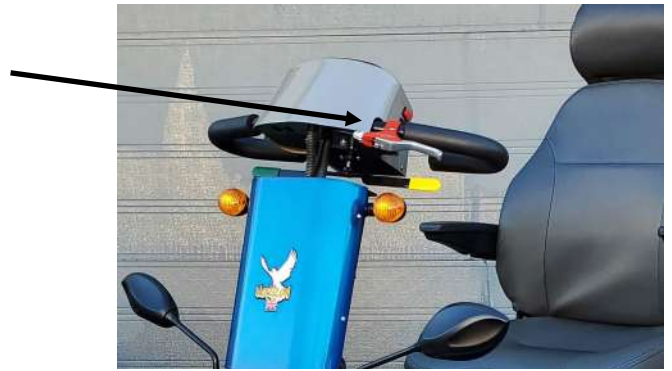
Your Aztec has a single operating lever across the underside of the dashboard, with a green sleeve on one side and a yellow on the other. Pull back on the green lever to go forwards, pull back on the yellow to go backwards. The more you pull the faster the vehicle will respond and move.



11.13. Column Adjustment

The red handle on the left-hand side of the handle-bars allows the upper column adjustment. Squeeze the handle fully to release the column, once in the correct position, release the handle.

NOTE: With the column in it's lowest setting the steering will be locked for vehicle transport.



11.14. Freewheel Lever

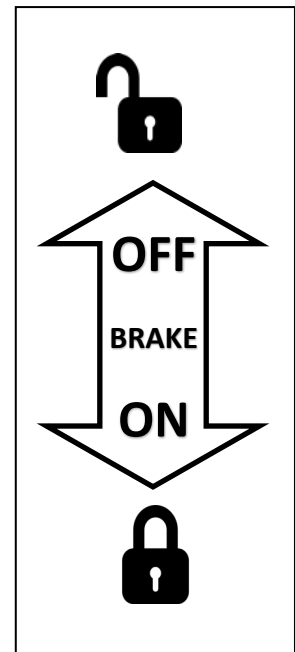
On the end of the motor at the rear of the vehicle is the freewheel lever. To operate, turn vehicle off and stand behind it, pull the lever gently upwards, this will release the electromagnetic parking brake. To re-engage the brake press the lever downwards.

NOTE: The mobility scooter will not drive with the brake off, the dashboard will display a flashing fault on the battery display. To restart the scooter if this happens, turn off the ignition, push down the lever at the rear of the scooter on the manual brake then turn on the ignition.



DANGER!

Never sit on the scooter with the brake lever in the OFF position or try to operate the vehicle.



11.15. Charger Socket (Front)

To charge the scooter, first turn off the vehicle and remove the key. Then lift the spring loaded cover over the charger socket located on the back lower panel of the steering column. Insert the charger plug into the charging socket, making sure the plug is fully located by pressing in firmly, before turning on the charger. Always connect the charger to the vehicle before plugging it into and switching it on at the 240v Mains.



11.16. Charger Socket (Rear)

To charge the scooter using the charging socket located at the rear of the vehicle, first turn off the vehicle and remove the key. Then lift the spring loaded cover over the charger socket located between the lights on the rear panel. Insert the charger plug into the charging socket, making sure the plug is fully located by pressing in firmly, before turning on the charger. Always connect the charger to the vehicle before plugging it into and switching it on at the 240v Mains.



CAUTION!

Never charge your scooter with the ignition turned on, serious damage could occur to the scooter and it will NOT charge with the ignition turned on.

NOTE: If your Aztec has the optional Lithium battery system fitted then a separate sheet may be provided giving further instructions for charging.



11.17. Beacon Socket

To connect and operate the optional telescopic LED orange beacon, lift up the sprung loaded flap and insert the beacon plug, press the plug in firmly. The beacon will now flash when the ignition is turned on and the front edge of the switch located on the dashboard is press down.

NOTE: If your Aztec has the optional Mode 3 fitted, the beacon will operate automatically with your lights if it is plugged into this socket or by the green switch located below the righthand indicator button.



















12. Quick Start Guide




The battery **MUST** be charged for 12 hours before first use. Do not attempt to use your scooter unless the batteries have been fully charged as failure to do this will result in battery damage.

Connect the battery charger to the charging socket located at the rear of the scooter and the mains supply. Switch on the mains supply and following lights will illuminate on your battery charger.

When charger is first switched on both YELLOW and GREEN lights will flash as they check the charging system status, then provided all connections are correct the YELLOW Light = Charging and GREEN Light = Charge Complete.

Always charge the scooter overnight after each days use to maintain the battery condition. If you have any questions or concerns then please read Section 19 of this manual.

	Yellow LED 	Green LED 
Charger OFF (Mains Not Connected)		
Charger Status Check on Power-Up		
		
Stand-By (Not plugged into scooter or batteries below recovery voltage)		
Charging		
Full		
Failure to Charge or Charging Fault		

 = OFF,  = FLASHING,  = ON

Transport:

The Aztec is not designed or manufactured as an easily transportable scooter. For recommended methods and tips on transporting and storage of the scooter please read Section 22 of this manual.

Functions:

All the main functions to enable operation of the scooter are contained on the dashboard. The user functions on the dashboard are:

- ◆ ON/OFF Ignition Switch
- ◆ Lights
- ◆ Horn
- ◆ Indicators
- ◆ Beacon Switch
- ◆ Speed Mode Switch(es)
- ◆ Battery Display (LCD display panel)
- ◆ "Min-Max" Speed Limiting Control
- ◆ "Forward-Reverse" Throttle Levers .

Note:

Even if you are an experienced user and/or have owned a mobility scooter previously you **MUST** read this Owners Manual carefully to fully understand the controls and safety warnings for this vehicle. If you have any doubts or questions about operating the vehicle or any of its functions then please turn to Sections 11, 13 and 16 of this manual.

Remember always engage the drive unit by pushing the freewheel lever down after moving the vehicle manually, this will stop the scooter from moving or rolling which could cause a hazard.

Remember the Aztec is designed as a vehicle capable of driving on roads, pavements and footpaths depending on the wheels and tyres fitted to the vehicle.

Never drive your scooter through standing water, especially if you do not know its depth.

13. Safety Warnings and Operating Tips

13.1. General Safety and Warnings



WARNING!

Safety is very important with any vehicle, especially a motor driven one. The following warnings are not conclusive and should be read in conjunction with this complete manual, which explains the operation, function, care and adjustments for your mobility vehicle.

If you are in any doubt about your ability to drive your mobility vehicle due to any medical treatments or conditions, always consult your doctor before proceeding.

Always ensure your vehicle is switched off and the key removed from the ignition before mounting, dismounting or adjusting either the seat or steering column.

Before driving the vehicle always ensure you are seated comfortably and securely, with the armrests down and that both the seat and steering column are securely locked in their correct positions.

Ensure you have read this manual and familiarised yourself fully with all the controls before using your vehicle for the first time.

Before switching your vehicle on, ensure you can easily reach all controls from a comfortable seated position and ensure that your rear view mirrors are adjusted properly.

Before driving your vehicle ensure that the lights are clean and working properly, ensure your tyres are correctly inflated and undamaged, and that your batteries are charged.

Always reduce speed when turning a corner, this is especially true when travelling downhill or over any uneven terrain. Failure to follow this instruction could mean the vehicle will overturn, causing injury to the user and damage to the scooter.

Never try to mount or dismount a kerb at an angle, always approach straight on and at a steady speed. Never charge an obstacle at high speed, the Aztec will climb an obstacle slowly, you do not need speed. Wherever possible look for and use drop kerbs, as these are safer and more comfortable.

Wherever possible always drive straight up or down slopes not across them.

Failure to observe these general safety tips could lead to your vehicle starting unexpectedly, being uncontrollable or tipping over.

The Aztec is principally designed for outdoor use, it is therefore larger than many other scooters. Due to the size, if using the Aztec in the confines of a building, always ensure that the building has suitable emergency escape routes that are capable of allowing free access/ingress for you and your scooter.

This Aztec is a fully road legal vehicle countries, but ensure all local traffic regulations and health requirements, (such as eye sight), are understood and

adhered to. If in any doubt please refer to the

Sections 3 and 4 of this manual as well as your local regulatory authorities.

The Maximum Load figure always refers to a single person as operator.

The Aztec is authorised for use by one person.

Do not operate your vehicle whilst under any form of detrimental influence caused by alcohol, drugs or severe/acute illness .

Please observe all relevant rules and regulations pertaining to pedestrians and road users, at all times.

Always make sure that you can be seen clearly by other road users, especially if you intend using your scooter in poor lighting conditions. Wearing bright clothing or a reflective jacket/coat is recommended when operating your scooter on the road.

The Aztec has been built to match the needs of the majority of users but if a personal risk assessment highlights specific needs then the scooter may need to be adjusted and/or reprogrammed.

Never let children or others use your scooter.

Never attempt to hoist the Aztec by the seat arm rests or steering column. The chassis has lifting points either side of the seat mounting.

Never attempt to ascend or descend escalators or stairways with the scooter.

13.2. Batteries

Before each journey always check that the batteries are sufficiently charged.

Though your vehicles batteries are sealed try to keep batteries upright on a flat surface at all times, especially if being transported.

When being transported ensure your batteries are located securely in place to prevent the possibility of damage, short circuit or injury.

Regularly check that your batteries have not been damaged, are in good condition with clean correctly tightened and undamaged terminals, and that no leakage has occurred.

Batteries naturally discharge over a period of time; always recharge your batteries at least once a month to avoid damaging them. If batteries are left to go completely flat they will be damaged beyond recovery.



DANGER!

Battery fluids are very corrosive and every care should be taken at all times to avoid contact with them. If it comes in contact with the skin, clothing or other surfaces, wash immediately with generous amounts of soap and water. If it comes in contact with the eyes, immediately flood the eyes with running fresh cold water for at least 10 minutes and seek immediate medical advice. If swallowed seek immediate medical advice, do not induce vomiting.

13.3. Options and Functions

Some of the options shown in this manual may not be available in your country and some functions may be restricted such as maximum speed, user weight limit or range.

Any limitations are marked on your order form, in the technical manual and in this Owner's Manual. For further information please consult the Horizon Mobility authorised dealer in your region.



DANGER!

13.4. Preliminary Vehicle Checks

Always check that the Freewheel Lever is in Drive before sitting on the scooter or trying to set vehicle in motion.

The Aztec will display a fault on the Battery Display when the Freewheel Lever is raised and set to OFF. The vehicle will not drive and will need to be re-started once the Freewheel Lever is pushed down to ON.

Always reduce speed when turning a corner, this is especially true when travelling downhill or over any uneven terrain. Failure to follow this instruction could mean the vehicle will overturn, causing injury to the user and damage to the scooter.

Always ensure your vehicle is switched off and the key removed from the ignition before mounting, dismounting or adjusting either the seat or steering column.

Always make sure that you can be seen clearly by other road users, especially if you intend using your scooter in poor light conditions. It is recommended you consider wearing bright clothing, such as a high visibility reflective jacket when operating your scooter on the road.

13.5. Emergency Braking



WARNING!

If you need to slow down or stop in an emergency, select the opposite direction, this will reduce the stopping distance by 30%. display, cycle the key switch to reset the vehicle.

Turning the ignition key OFF whilst driving will shut power to the vehicle and immediately apply the brake. Either of the above stopping methods are not recommended except for emergencies, the stop will be extremely sudden and routine use of this braking method will cause damage to the drive and braking systems not covered under any warranty.

13.6. Tyres

There are several tyre choices for the Aztec, all will suffer wear depending on how much and over what terrain the scooter is used. Always check your tyres regularly, especially the inflation pressure and for any objects or cuts in the tyre. The pressures according to the service instructions in this manual are as follows.

Tyre pressure for 100/65-9 tyres is 2.0 bar (30 P.S.I)

Tyre pressure for "off-road" tyres is 1.7 bar (25 P.S.I)



DANGER!

Never inflate the tyres using a garage forecourt air pump system. It is recommended that you use a manual pump or a pump fitted with an accurate pressure regulator (manometer).



WARNING!

13.7. Kerbs

Always be aware of other vehicles and pedestrians when climbing a kerb.

Never attempt to mount or dismount a kerb that is in excess of 100mm (4")

Always mount and dismount kerbs with caution and directly facing the kerb.

Never attempt to mount or dismount a kerb with vehicle in reverse.

Never attempt to climb or descend kerbs or climb steep slopes in excess of the specification stated on the vehicle and in this Owners Manual, due to the risk of falling out of the scooter or tipping over.

Never attempt to ascend any kerb in the vicinity of a drain cover, uneven surfaces, or gravel covering.

Never attempt to climb or descend any kerb at an oblique angle. Only ever approach at an angle of 90°. Do not take a run up at a kerb or apply full power, approach to a distance of approximately 200mm (8 inches) and then apply only the power required to climb at a safe slow steady speed.

13.8. Transporting in a Motor Vehicle



DANGER!

The Aztec is not suitable to use as a passenger seat in a moving motor vehicle.

The Aztec is NOT crash tested



DANGER!

A mobility scooter secured in a motor vehicle will not provide the same level of safety and security as the motor vehicles own seating system. You should always transfer the user from the Aztec scooter to the motor vehicles in-built seating.

NOTE: For advise on transporting the Aztec scooter, whether by Road, Rail or Air please refer to Section 22, Transportation and Storage.

13.9. Freewheel



DANGER!

Only ever use the free wheel function fitted to the Aztec to push the scooter manually from one spot to another. Never sit on the scooter or try to operate it with the scooter in free wheel (Freewheel Lever in the UP position)

Always remember that while the scooter is in free wheel the scooter is without an automatic braking system.

The Aztec will display a fault on the Battery Display when the Freewheel Lever (1) is raised and set to OFF. The vehicle will not drive and will need to be restarted once the Freewheel Lever is pushed down to ON.

The free wheel functions should only be used by a person who has the strength and agility to control and manoeuvre the scooter safely, remembering the Aztec is a large heavy vehicle.

Always put the scooter back in drive.

Always check that drive is engaged before using the scooter.

Never disengage the drive and select free wheel when the vehicle is on or near a slope.

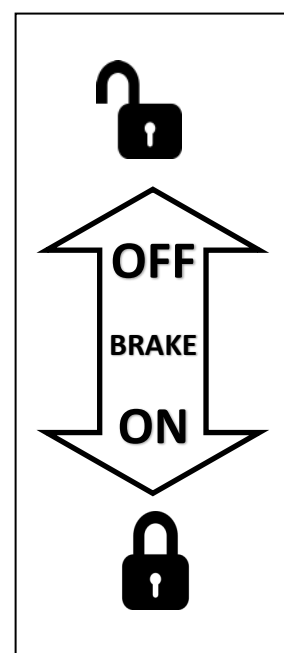


CAUTION!

Never allow yourself to be pushed by others, or towed, whilst the scooter is in drive or free-wheel. Towing the scooter under any circumstances with the rear wheels in contact with the road surface will damage the drive, batteries and controller systems and could potentially cause a fire. This would not be covered by any warranty.



1



13.10. EMC - Radio Transmitting Devices:

When operating two-way radio, walkie-talkies, C.B, public mobile radio, other powerful transmitting devices and amateur radio the scooter should be brought to a halt and turned off. The operation of cordless, mobile phones and cellular phones, that include hands-free devices only, are permitted but if any abnormal driving performance of the scooter is encountered then the scooter must immediately be brought to a halt and switched off until use of the phone is finished and switched off.

NOTE: The electrical systems of the Aztec scooter meet the required standards but may disturb the function or performance of some alarm and security systems, especially those in retail stores.

13.11. Weight Limits:



The user, plus options and accessories, plus items carried should never exceed the total weight as listed in Section 9 of this manual

Never sit in the scooter whilst lifting heavy weights or exercising. By Exceeding the weight limit you are likely to damage the seat or frame and may cause severe injury to you or others from component or scooter failure

Exceeding the weight limit as listed in Section 9 of this manual will void the warranty.

Do not hang shopping bags from the handlebars as they could swing and cause loss of steering control.

Always ensure weight is distributed evenly and within the wheelbase. Mounting excess weight on the back of the scooter, especially the back of the seat, will make it unstable and could cause it to tip.

13.12. Abrupt And Tight Turning:



Rapid or hard full lock turns should never be attempted, if you need to turn abruptly, or tightly you must reduce speed prior to attempting to turn. It is particularly important when crossing a slope or descending a slope and reducing maximum speed by selecting a slower speed setting or reducing the speed limit adjustment knob (see Section 11.7) on the side of the display panel (see Section 11.4).

13.13. Hot Surfaces:



After prolonged use of the Aztec scooter, especially in off-road conditions, the motor may get hot, do not touch the silver motor casing for at least 30 minutes after using the scooter to allow it to cool.

Upholstery and handgrips could also become hot when left standing in the sun. Always check seat, armrest and handgrips have not become hot.

13.14. Consideration On The Road:

The utmost care and consideration for pedestrians and other road users must be shown.



Remember that the last thing a car or lorry driver expects to see is a scooter driving off the kerb into the road.

If in any doubt, do not risk crossing the road until you are certain that it is safe.

When crossing roads, do so as quickly as possible; there may be other traffic.

Be seen! Always wear something bright such as light coloured clothing, a reflective tabard or day glow vest.

When driving at night, in dull conditions or in poor visibility, always use the lights, particularly when driving on the road.

Obey all of the rules for pedestrians and traffic.

Remember, on the road you are traffic, but on the footpath and when crossing the road you are classed as a pedestrian.

Whilst driving on the road do not drive up one-way streets the wrong way, use the footpath with the speed control set at the appropriate speed, (less than 4mph-6kph).

Never hang bags off the handle bars.

13.15. Adverse Operating Conditions:



Be aware that when driving your scooter in adverse conditions, e.g. on wet grass, mud, ice, snow, sand or other slippery surfaces, you may experience a reduction in the grip and traction of your scooter. We recommend you take extra precautions in these conditions, particularly on hills and slopes; your scooter could skid or slide causing possible injury.



When you are using a Powered Scooter or powered wheelchair, take extra care with loose or long items of clothing. Moving parts, such as wheels, can be potentially dangerous or even fatal if your clothing becomes entangled.

NOTE: Extreme variances in temperature may well trigger the self protect mechanism in the scooter control system. If this occurs the control system will temporarily shut down to prevent damage to the electronics or the scooter. To restart the vehicle, leave the key switched off for 10 minutes before restarting.

14. Instructions For Use

14.1. Transporting the Vehicle

The Aztec is not designed as a vehicle to be easily transported in the average family car. It is not easily dismantled for transport and the main section of the vehicle does not dismantle and is extremely heavy.

The seat may be easily removed (see Section 11.2) and the tiller folded, this will allow storage or transport in a larger vehicle such as a PSV or large estate car, by the use of ramps.

It is recommended that a trailer is considered.



WARNING!

The main section of the Aztec is extremely heavy and should be moved or handled with great care.

14.2. Seat Adjustment for Driving



WARNING!

Adjust seat backrest angle to be comfortable when driving the vehicle, do not adjust the angle back too far as it is possible to fall back flat, this could cause harm to both the user and the seat. (see Section 11.1)

Try not to lean the backrest back too far as this could affect the overall stability of the vehicle when climbing steep slopes.

The armrest height/angle maybe adjusted using the rotating handwheels located under each armrest. (see Section 11.1)

The seat position may be adjusted forward and backwards by use of the handle located under the front right side of the seat (see Section 11.1)



WARNING!

Never attempt to adjust any of the seat position functions while the vehicle is in motion, to do so could lead to an accident causing harm to both the user and the vehicle. Always bring the vehicle to a complete halt before making any adjustment to the seat positions.

14.3. Tiller Adjustment

The upper section of the tiller may be adjusted by using the handle located on the left hand side of the handlebars. (see Section 11.13). Squeeze the lever and move the handlebars to the correct angle, when you release the adjustment lever the tiller will remain in that position.

With the tiller in the fully down position the steering will be locked in the forward position for ease of transport

14.4. Entering and Exiting the Scooter

Before mounting your scooter ensure that the key is in the off position or removed.

The scooter is very stable but try to always place your feet in the centre of the footplate when stepping on to the vehicle.

Position yourself comfortably on the seat, ensuring both armrests are lowered, make any adjustments required prior to turning on the key.

Ensure your feet all placed comfortably and firmly on the footboard and do not protrude beyond the edges of the scooter.

Ensure that you can reach and operate all controls comfortably, make any tiller adjustments prior to turning on the key.

14.5. Using The Lap belt (Option)

The utmost care and consideration for pedestrians and other road users must be shown.

If a lap belt is fitted (see Section 11.1.2) to the seat on your scooter, it is very important that it is fitted in the correct position and not twisted or knotted.

The lap belt is an inertia reel type that automatically adjusts the tension.

To lock the belt in place:

Pull the belt across your lap before inserting the metal end into the receiver located on the left side of seat. Press firmly into place.

To release the belt:

Press the red button on the receiver down until it clicks, this will release the belt and it should retract automatically.

14.6. Driving On A Slope

Your scooter has been designed and fully tested in accordance with current Regulations to allow its safe use on gradients up to 20% (11°), 1 in 5.

In order to improve stability it is recommended that you lean forward and ensure the seat back is in the upright position when climbing steep slopes.

Never load the back of the scooter with heavy any objects above the stated weight allowance for any approved optional carrying container that may be fitted (see Section 15).



WARNING!

Though the Aztec is capable of climbing much steeper, never exceed the maximum slope of 11°.

If any doubt about a slope, do not attempt to drive up or down this slope but look for an alternative route.



DANGER!

Never attempt to make a 'U' turn whilst going up or down a steep slope.

When manoeuvring on a slope try avoid driving across the slope where possible. Always use gentle movements of the throttle and steering, try to avoid hard acceleration, the Aztec will deliver ample power at almost any speed so drive gently and steadily so that you maintain the maximum control.

Never drive down a slope at speed, it is much more difficult to control the vehicle. Drive slowly and steadily with gentle use of the steering and throttle. Always try to avoid hard acceleration or braking, try to avoid performing hard turns on a slope.

It is recommended to use low speed Mode 1 where possible on slopes, especially in reverse or if any turning manoeuvres are required.

On steep descents never drive at full speed, this could cause the vehicle to become unstable if it should encounter an obstacle.

Drive down descents in Mode 1. this will prevent overvoltage emergency shutdown occurring if you have to stop suddenly.

Never drive across a steep ramp or slope.

14.7. Ramps:



WARNING!

When using a ramp for access, please ensure that it is capable of taking the combined weight of the scooter and yourself.

When a ramp is being used, please ensure that the ramp is stable and properly secured.

Always approach the ramp head-on and exercise caution.

Please ensure the ramp is suitable for the purpose you are using it for.

Maximum ramp angle:

Follow all the user instructions supplied with the ramp.

Be aware that accessories attached to the scooter, may affect the overall stability.

Do not attempt to use steep ramps when any of the following accessories are fitted, a rear storage bag, rear mounted wheelchair/walker holder or oxygen bottle holder, as they may cause the scooter to become unstable.

14.8. Maximum Weight Capacity:



DANGER!

The user, plus options and accessories, plus items carried should never exceed the total weight as listed in Section 9 of this manual

Never sit in the scooter whilst weight training. By Exceeding the weight limit you are likely to damage the seat or frame and may cause severe injury to you or others from component or scooter failure

Exceeding the weight limit as listed in Section 9 of this manual will void the warranty.

Do not hang shopping bags from the handlebars as they could swing and cause loss of steering control.

Always ensure weight is distributed evenly and within the wheelbase. Mounting excess weight on the back of the scooter, especially the back of the seat, will make it unstable and could cause it to tip.

15. Options

15.1. Battery Upgrade

See Section 19 of this Manual for the battery sizes available and instruction on fitting of replacement batteries if ordered as an after market option.

15.2. Crutch/Stick Holder

The Crutch/Stick Holder secures to the chassis of the vehicle by 2 x 8mm Sets with nylon locking nuts. A pair of 13mm spanners is required to fit this item.



WARNING!

Always ensure that when using the Crutch/Stick Holder that your crutches are secured by way of the “hook and loop” strap so that they do not interfere with you once seated on the scooter.



15.3. Rear Removable Locking Case

To fit the Locking Case the optional Accessory Bracket is required.

WARNING!

Always ensure that you do not put more weight than is stated for the case as this could make the vehicle unstable or cause damage or injury due to failure of the mounting system.

15.4. Sprung Suspension Seat

The Aztec has an optional ergonomically designed, high back weatherproof seat with the following functions:



1. Built-in Lap-Belt
2. Angle adjustable Flip Up Armrests
3. Adjustable angle Backrest
4. “Dial-A-Weight” fully adjustable Seat Suspension

5. Forward-Rearward adjustable Slide x 2



15.5. Oxygen Bottle Holder

To fit the Oxygen Bottle Holder you will require the optional Accessory Bracket to be fitted.

WARNING!



Always ensure that you do not put more weight than is stated for the holder or use a bottle that is larger than permitted as this could make the vehicle unstable or cause damage or injury due to failure of the bottle or mounting system.

15.6. Solid Road Tyres

Road tyres with solid (foam) tyres are available for your scooter. These are designed to prevent the possibility of punctures.

Solid ATV tyres are not available at this time.

WARNING!



The user, plus options and accessories, plus items carried should never exceed the total weight as listed in Section 9 of this manual

16. Fuses and Bulbs

16.1. Bulbs

Note: The lights fitted to your vehicle are all LED and are not serviceable, though in the case of your indicators (depending on Territory) they may be fitted with LED bulbs rather than be sealed units.

	<i>Voltage</i>	<i>Rating</i>
Headlights (E4) x 2 (Sealed CREE LED)	12v	4 Watt each
Front Indicators (Sealed LED)	12v	4.5 watt
Rear Indicator Lamp (Sealed LED)	12/24v	4 watt
Rear Tail Lamp (sealed LED)	12/24v	3/5 watt

	<i>Voltage</i>	<i>Rating</i>
Main Battery Fuse	24v	100 Amp
Ignition Fuse	24v	5 Amp
Lighting Fuse	12v	3 Amp
Accessories Fuse	24v	1 Amp
12v Supply Fuse	12v	30 Amp
Flasher Relay	12v	
Lithium Battery Isolation System Relay	24v	SPDT
Power Steering Relay	24v	SPDT
Ancillary Relay	24v	
Main charger circuit breaker (dealer only)	24v	35 Amp

16.2. Fuses and Relays

Note: All the fuses and relays are in the fuse box located behind the lower front plastic headlight panel. This can be removed by removing the four fixings located two on either side of panel.



WARNING!

Never attempt to change the fuses with the vehicle switched on, always ensure you remove the key from the ignition then accessing the fuse box. If you are changing a Relay then always disconnect the batteries as they have power without the key being on.

17. Batteries & Chargers

17.1. Batteries



DANGER !

- ◆ Never expose the batteries to a direct heat source such as a naked flame or gas fire.
- ◆ Do not smoke near the batteries, especially when charging them.
- ◆ Do not attempt to replace the 100A battery fuse located between the batteries yourself.
- ◆ Never attempt to by-pass the main battery fuse as this would be very dangerous and could cause a fire and severe injury.
- ◆ If you suspect there is a fault, contact your Authorised Dealer or Horizon Mobility as soon as possible.
- ◆ Take extreme care when working on or near your batteries not to short circuit the battery terminals. Tools, a metal watch strap jewelry etc can conduct and if dropped across the battery terminals may cause severe burns and/or explosion!
- ◆ Your batteries are extremely heavy, always use the correct lifting techniques when fitting or removing them from the scooter.
- ◆ Once the replacement batteries have been fitted always refit the battery retaining bar and tighten securely.

17.2. Removing your batteries

Remove the seat (see Section 11.2)

Remove the Battery cover by sliding your fingers under the lower front edge and peeling open the “hook and loop” retaining tape. Gently lift the cover up over the seat post, making sure the retaining tape at the rear of the cover comes undone as you lift.

Unscrew each of the battery terminals nearest the back of the scooter using correct sized spanner or other tools, depending on the battery type fitted.

Unscrew and remove the fused battery connecting wire located over the front terminals of each battery.

Undo the handwheel securing the battery retaining bar in place and sliding the bar up over its locating post.

Always lift the batteries by bending at the knee with the battery positioned centrally in front of you, rest your forearms on your knees for support.

If the battery has lifting handles then grasp this with both hands and lift the battery vertically by slowly straightening your legs. Keep your back straight and never use your arms alone to lift then weight.

Move the battery to a safe place, keeping your back posture straight and upright, and bending knees.

17.3. Replacing your batteries

Follow the procedure for Removing your Batteries in reverse, finishing by replacing and securing the seat (see Section 11.2)

17.4. Battery Type, weight and capacity

Type	Weight
MK 40 Ah (at 20 Hr)	14.5 kg
MK 73.6 Ah (at 20 Hr)	19.3 kg
Leoch 90 Ah (at 20 Hr)	23.5 kg
MK 97.6 Ah (at 20 Hr)	31.8 kg
Leoch 108 Ah (at 20 Hr)	27.6 kg

17.5. Maintenance free battery care plan



CAUTION!

1. Only use an approved charger supplied for and compatible you're your mobility vehicle being charged.
2. Charge your batteries every night, regardless of the amount of use your mobility vehicle 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 connected to the charger and the charger remain switched on until the vehicle is required. This will not damage your batteries, as long as the mains socket/plug is left switched on. Turning the mains socket/plug off, but leaving the mains cable plugged in will eventually flatten your batteries to the point of permanently damaging them beyond recovery.
5. If you leave your vehicle for an extended period (more than 14 days) charge the batteries fully and then disconnect one of the battery terminals.
6. Failure to fully recharge your batteries will damage them and lead to shortened distances and premature failure.
7. Do not top up the charge of your batteries during the day. Wait until you can leave the vehicle to fully recharge, such as each evening for a full overnight charge.
8. As a general rule, maintenance free batteries take longer to fully charge than “wet” lead acid batteries.

9. The battery terminals need to be checked regularly for signs of corrosion. If any corrosion is found, then clean the terminals completely and re-grease the terminal using Vaseline petroleum jelly, never use ordinary grease. Ensure that the terminal nut and bolt, cable clip and exposed cable are completely covered with jelly.

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

11. When your batteries no longer hold a charge, return them back to your Authorised Dealer, your local authority recycling centre or Horizon Mobility. Please always dispose of your batteries responsibly.

17.6. General charger information

The external charger has been designed to charge two 12V GEL or AGM VRLA type batteries connected in series (= 24 V).

17.7. Charger safety features

Your charger has features which prevent hazards or accidents occurring as a result of connecting the batteries the wrong way round, overheating caused by fault conditions or attempting to charge wrong voltage batteries.

The majority of charger sizes are electrically double insulated and no earth connection is required. Some larger sizes may be electrically earthed and this will be clearly stated on the label.

The fused 3 pin UK mains input plug has the rating of this fuse shown on the plug or charger label.



DANGER!

As with all mains powered electrical equipment, always replace blown fuses with the same type and size of fuse as specified.

Fitting a different fuse can result in an increased fire risk, damage to the charger or failure of the charger to operate properly.

17.8. Procedure for connecting the charger

See Section 12, Quick Start Guide for instructions

For more information about the charger operation, consult the instructions provided with the charger.

NOTE: If the battery charger is not connected to the scooter, it does not output any charge voltage.

The charger may be used with other brands of GEL type VRLA batteries, subject to written confirmation from the Horizon Mobility Limited.



DANGER !

An extension cord should not be used unless it is absolutely necessary. Use of an improper extension cable could result in a risk of fire and electric shock.

If any extension cable must be used, make sure the pins on the plug of the extension cord are the same number, size and shape as those of the plug on the charger; and that the extension cable is properly wired with an earth connection and in good physical and electrical condition.



WARNING !

Always switch off at the mains power before you disconnect the charger from the batteries.

The charger is designed for indoor use. Do not use outdoors or expose to rain, snow, spray or any form of moisture.



CAUTION !

When buying replacement batteries or a charger always consult your Authorised Service Agent or Horizon Mobility Limited.

Never leave the battery charger connected to the batteries with the mains disconnected or switched off. This could result in permanent damage to your batteries caused by them being deep discharged over a period of time.

To reduce the risk of damage to the electrical plug and cable, always disconnect by pulling the plug casing rather than the cable when disconnecting the charger.

17.9. Charging Socket Connections

- Pin 1 = Battery Positive
- Pin 2 = Battery Negative
- Pin 3 = Inhibit

Note: Battery myths

Over the years, battery technology has improved but, unfortunately, a lot of advice given on caring for your batteries has not. The result is a number of confusing and contradictory instructions on the best way to care for your batteries.

Batteries are the power source for all mobility vehicles available today. The design of the batteries used in mobility vehicles 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, whilst mobility batteries (commonly called deep cycle batteries) release their power evenly, over a long period of time. Therefore, due to lower production volumes and increased technology required, mobility batteries are usually more expensive.

Never fit car or other none deep cycle type batteries to a mobility vehicle. Fit only deep cycle, maintenance free mobility batteries, these do not have a wet acid base and a much safer from spillage.

18. Wheels and Tyres

18.1. Warnings



DANGER !

- ◆ Never try to inflate your tyres using a garage forecourt air supply system, this could cause severe personal injury or death due to over inflation of your tyres.
- ◆ Always remove your wheels using only the centre wheel nut.
- ◆ If changing a tyre or inner tube, never try to separate the two halves of your wheel with the tyre valve still inserted or the tyre inflated. Always ensure to remove the tyre valve and ensure the tyre is fully deflated before undoing the wheel assembly fixings.
- ◆ Always ensure you use the correct size and type of tools when removing your wheel or separating the wheel halves.
- ◆ When replacing the front wheels never over tighten the wheel nut as this will damage the wheel bearings, always use the correct torque. If in doubt seek expert advise.
- ◆

18.2. Tyre Pressures

	<i>Minimum</i>	<i>Maximum</i>
Road Only Tyres (Tubeless)	20PSI - 1.38Bar	25PSI - 1.72Bar
ATV Front Off-Road Tyres	15PSI – 1.03Bar	20PSI – 1.38Bar
ATV Rear Off-Road Tyres	15PSI – 1.03Bar	20PSI – 1.38Bar

18.3. Wheels and tyres

If wheels are removed ensure that the axle shafts are well greased before replacing wheels. Always use the self-locking nuts provided with the scooter. If lost contact your dealer for a new one as the thread is not a standard metric one.



WARNING!

Never tighten the front wheel nuts beyond touching the outer bearing as this will damage the bearings.

19. Cleaning

19.1. General Cleaning



WARNING!

Always ensure the scooter is switched off before starting to clean your scooter.

- The scooter should be wiped over once per week with a slightly damp, (not wet), cloth.
- Make sure that you dry all parts of your scooter if it becomes wet or damp after cleaning, or if it is used in a wet, damp or extremely misty conditions.
- It is important that should your scooter be used by more than one person it is thoroughly cleaned to ensure there is no cross infection.

You should use a proprietary disinfectant for the above task. Always pay attention to manufacturer's instructions of the disinfectant you are using. You should inspect the upholstery for tears, severe dents, wearing or slackening of the upholstery, particularly near to metal as this could result in poor posture, lower comfort levels and reduced pressure relief.

19.2 Cleaning the Seat

All parts/accessories such as crutch holders should be cleaned with a damp cloth.

The headrest, armrests, lap belts should be cleaned with a damp cloth.



CAUTION!

Do not use a hose pipe, a pressure washer or steam washer to clean your scooter.

19.3 Cleaning Control System

Clean the control systems with a cloth dampened with diluted detergent.



CAUTION!

Never use abrasive or spirit based inflammable cleaners.

20. Transportation & Storage

20.1. Storage Temperature and Humidity

Storage Temperature: Min: -40°C Max: 65°C

Relative Humidity (non-condensing):

Min:5% Max: 95%

Before you travel, please contact the appropriate carrier. The travel operator will be able to supply details of any special requirements/instructions.

20.2. Transporting Your Scooter on the Train

If you wish to transport your scooter on the train, we recommend that you contact the train operator in advance when planning your journey. Railway carriages have provision for a “wheelchair” space where you may be able to sit on your scooter during the journey. Please note that the overall length of your scooter may be greater than the available length of the “wheelchair” space in the carriage.

When planning your journey, you should check with the train operator that there will be suitable level or ramped access available to allow you to board the carriage and the intended “wheelchair” space on joining and leaving the train and there is suitable access onto the platform.

We recommend you check with the train operator that the boarding access is suitable for the combined mass of your scooter and the occupant; the slope of the access is not greater than the maximum safe slope of the scooter, any steps or risers are no greater than the maximum height of the scooter obstacle climbing height, there is adequate turning space within the access area to the train and on the train.

Most train operators will provide suitable assistance provided that arrangements have been made in advance. We suggest you carry your Owner’s Manual and have it ready when planning and travelling on your journey and when contacting them.

20.3. Other Transport Requirements

The scooter may be transported by road, rail or sea as luggage. Before you travel, please contact the appropriate carrier or travel operator. You may be asked to provide certain information about the scooter such as the mass and overall dimensions. This information can be found in the relevant model table in Section 23.

If the scooter is transported by air, the batteries will need to be removed as the batteries supplied may not IATA approved for air travel. Your dealer can, if required, assist in supplying batteries that are IATA approved.

If transporting the scooter by road, it will need to be secured to prevent unintended movement into the vehicle passengers in the event of a sudden stop. Your scooter can be secured by attaching suitable restraints to the front and rear securing points.

20.4. Removal of Part for Transport

Information on the removal of some parts before travelling, should your travel operator or the carrier require to do this can be found in Section 11 of this manual, which you should take with you.

You should also ensure that any detachable parts e.g. basket, crutches etc. are secured with your scooter or separately packed and labelled so they do not get lost during loading or unloading.

20.5. Using a Hoist to Lift Your Scooter

Your scooter, **WITHOUT OCCUPANT** can be lifted using two suitably rated straps, plus an “H” frame constructed of a minimum of 4”x 3” timber sections should be used.



CAUTION!

- The approximate maximum mass of the Aztec is 150Kg so each strap should be rated to a minimum of 150kg. The hoist and “H” frame, should also be capable of lifting a minimum of 150kgs. **DO NOT** attempt to lift the scooter using the seat or tiller.
- The scooter should be switched off before hoisting and the keys removed.
- Ensure the straps are the same length and are placed evenly so that the scooter is lifted evenly.
- Never attempt to lift the scooter with an occupant seated.

20.6. Longer Term Storage

When storing your scooter for longer periods of time (in excess of two weeks), follow these simple instructions:

Fully charge the vehicle for at least 24 hours.

Disconnect the batteries.

Never store your scooter for long periods of time:

Outside.

In direct sunlight, (finishes may fade or discolour).

Near a source of direct heat.

In a damp environment.

In a cold environment.

With the batteries connected, (even if the controller is switched off).

Avoiding all of the above will minimise battery deep cycle discharge and extend battery lifetime.

Before using the scooter again, reconnect the batteries and charge the scooter for at least 24 hours to avoid damaging the batteries.

21. Disposal and Recycling

When this product reaches the end of its service life, take it to your local collection point designated by your Local Authority or return it to your original Authorised Supplying Dealer. The recycling of your scooter will help to conserve the natural resources of our planet and ensure that it is recycled in the most responsible manner that helps protect the environment.

Ensure you are the legal owner of the scooter prior to arranging for the disposal and recycling of your scooter.

The Aztec is manufactured where possible using materials that can be recycled. Almost 80% of the vehicle can be recycled.

The main chassis, all structural elements together with almost all of the bodywork is manufactured using steel, which can be recycled.



The plastic panels used in the scooter's manufacture are made from ABS, which should be recycled.

The batteries can be recycled.

The wiring and electronics used in the vehicle can be recycled..

22. Specification in accordance with EN 12184 and ISO 7176-15

ISO 7176-15	Minimum	Maximum	Comments
Overall Length			
Overall Width			
Total Mass (with batteries)			
Mass of Heaviest Part			
Static Stability Downhill			
Static Stability Uphill			
Static Stability Sideways			
Maximum Range			
Dynamic Stability Uphill			
Dynamic Stability Downhill			
Obstacle Climbing			
Ramp Transition			
Maximum Forward Speed			
Maximum Reverse Speed			
Seat Depth			
Seat Width			
Seat Base Height			
Back Rest Angle			
Seat Fore/Aft Adjustment			
Seat Weight			
Top of Arm Rest to Seat Base			
Minimum Turning Circle			
Minimum Turn Between Walls			
Nominal Battery Voltage			
Additional Specs	Minimum	Maximum	Comments
Maximum Potential Range			
Controller Cut Off Voltage			
Battery Capacity			
Battery Fusible Link			
Battery Charger			

22. Specification in accordance with EN 12184 and ISO 7176-15

Additional Specs	Minimum	Maximum	Comments
Maximum Potential Range			
Controller Cut Off Voltage			
Battery Capacity			
Battery Fusible Link			
Battery Charger			
Battery Charger Fusible Link			
Maximum Kerb Height			
Ground Clearance			
Rear Suspension Travel			
Front Suspension Travell			
Rear Wheel Drive			
Motor Output (RMS)			
EM Brake Holding Force			
Scooter Push Force			
Crash Tested			
Tyre Pressure (Road)			
Tyre Pressure (ATV)			
Maximum Forward Speed			

23. Routine Maintenance and Service

23.1. Routine Maintenance

The following table gives an indication as to when routine maintenance checks should be made. As a minimum to ensure the safe and correct operation of your vehicle.

	<i>Daily</i>	<i>Week</i>	<i>Month</i>	<i>Quarter</i>	<i>Annual</i>
Charge batteries					
Check front and rear light functions					
Wipe vehicle over with damp cloth					
Check tyre pressures					
Check seat adjustment and slide system					
Check rear for damage					
Check tyres for damage and wear					
Check front suspension for damage					
Check manual brake function					
Inspect battery terminals are secure and clean					
Full service by main dealer					

<i>Date</i>	<i>Service</i>	<i>Engineer</i>
	Delivery Inspection	
	1 st Annual Service	
	2 nd Annual Service	
	3 rd Annual Service	
	4 th Annual Service	
	5 th Annual Service	

24. Fault Codes on TruCharge Battery Display

The way in which the battery gauge should be read depends on whether the controller is driving, charging, in Sleep Mode or in Trip Mode. See Below.

24.1 TruCharge Indicator Steady

If the TruCharge gauge shows red, yellow and green, the batteries are charged.

If the TruCharge gauge shows red and yellow, then you should charge the batteries as soon as possible.

If the TruCharge gauge shows red then you should charge the batteries immediately.

24.2 TruCharge Indicator Flashing Slowly

The controller is functioning correctly, but you should charge batteries as soon as possible

Note: Do not operate scooter if batteries are nearly discharged. Failure to comply may leave the user stranded somewhere unsafe such as in the middle of the road.

24.3 TruCharge Indicator Stepping Up

The batteries are being charged

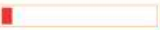

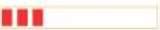
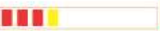
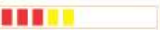





24.4 TruCharge Indicator Blinks every 3.5 seconds

The controller has entered Sleep Mode.

24.5 TruCharge Indicator Flashing Rapidly

The controller safety circuits have operated and is preventing the scooter moving.

- Switch off the scooter.
- Make sure all connections on scooter are mated correctly and tightly.
- Check battery condition and for damage.
- Switch scooter on again, if fault persists contact your Authorised Service Agent.

1 Bar 	The battery needs charging or there is a bad connection to the battery. Check the connections to the battery. If the connections are good, try charging the battery.
2 Bar 	There is a bad connection to the motor. Check all connections between the motor and the controller.
3 Bar 	The motor has a short circuit to a battery connection. Contact your service agent.
4 Bar 	The freewheel switch is activated or the manual brake disengagement mechanism is operated. Check the position of the switch or lever.
5 Bar 	Not used.
6 Bar 	The S-drive is being inhibited from driving. Inhibit 2 is active'. This may be because the battery charger is connected or the seat is not in the driving position.
7 Bar 	A throttle fault is indicated. Make sure that the throttle is in the rest position before switching on the scooter.
8 Bar 	A controller fault is indicated. Make sure that all connections are secure.
9 Bar 	The parking brakes have a bad connection. Check the parking brake and motor connections. Make sure the controller connections are secure.
10 Bar 	An excessive voltage has been applied to the controller. This is usually caused by a poor battery connection. Check the battery connections.

Horizon Mobility Ltd

Warranty

LIMITED LIFETIME WARRANTY

FOR THE LIFETIME OF YOUR HORIZON PRODUCT, FROM THE DATE OF PURCHASE, HORIZON WILL REPAIR OR REPLACE, AT OUR OPTION, TO THE ORIGINAL PURCHASER, FREE OF CHARGE, ANY OF THE STRUCTURAL FRAME COMPONENTS, FOLLOWING EXAMINATION BY AN AUTHORIZED REPRESENTATIVE OF HORIZON, FOUND TO BE DEFECTIVE IN MATERIAL AND/OR WORKMANSHIP ONLY

TWO YEAR WARRANTY

FOR TWO YEARS FROM THE DATE OF PURCHASE, HORIZON WILL REPAIR OR REPLACE, AT OUR OPTION, TO THE ORIGINAL PURCHASER, FREE OF CHARGE, ANY OF THE FOLLOWING PARTS FOUND UPON EXAMINATION BY AN AUTHORIZED REPRESENTATIVE OF HORIZON TO BE DEFECTIVE IN MATERIAL AND/OR WORKMANSHIP ONLY: ELECTRONICS (INCLUDING CONTROLLER), MOTOR/GEARBOX ASSEMBLY

BATTERY AND CHARGER WARRANTY

BATTERY AND CHARGER WARRANTY ARE COVERED BY THE MANUFACTURERS FOR 12 MONTHS AND NOT BY HORIZON

WARRANTY SERVICE IS ONLY CARRIED OUT BY HORIZON. OR AN AUTHORISED SERVICE CENTRE DO NOT RETURN PARTS UNDER WARRANTY TO HORIZON WITHOUT PRIOR CONSENT, ALL TRANSPORTATION COSTS AND ANY DAMAGE CAUSED IN SHIPPING ARE THE RESPONSIBILITY OF THE ORIGINAL PURCHASER.

WARRANTY EXCLUSIONS

- ABS, AND OTHER PLASTIC BODY PANELS
- LABOUR, SERVICE CALLS, SHIPPING, AND OTHER CHARGES INCURRED FOR REPAIR OF THE PRODUCT UNLESS AUTHORIZED SPECIFICALLY IN WRITING BY HORIZON MOBILITY
- ANY CIRCUMSTANCES BEYOND THE CONTROL OF HORIZON
- BATTERIES/CHARGER (MANUFACTURERS PROVIDES A TWELVE-MONTH LIMITED WARRANTY)
- TYRES AND TUBES
- UPHOLSTERY AND SEATING
- REPAIRS AND/OR MODIFICATIONS MADE TO ANY PART OF THE VEHICLE WITHOUT SPECIFIC WRITTEN CONSENT FROM HORIZON

DAMAGE CAUSED BY:

- ◆ BATTERY FLUID SPILLAGE
- ◆ ABUSE, MISUSE, TOWING, ACCIDENT OR NEGLIGENCE
- ◆ IMPROPER OPERATION, FAILURE TO MAINTAIN THE GOODS IN ACCORDANCE WITH THE REQUIREMENTS OF HORIZON, OR STORAGE
- ◆ COMMERCIAL USE, OR USE OTHER THAN NORMAL

THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABLE QUALITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO ONE(1) YEAR FROM THE ORIGINAL DATE OF PURCHASE AND TO THE EXTENT PERMITTED BY LAW. LIABILITIES FOR CONSEQUENTIAL DAMAGES OR LOSS UNDER ANY AND ALL WARRANTIES ARE EXCLUDED.

DATE OF PURCHASE: _____

SERIAL No. _____

AUTHORIZED BY _____

Warning: It is imperative for the maintenance of the above warranties that the product is maintained in accordance with the manufacturers requirements with annual services being performed by an authorized agent of Horizon

