



INVAMED



Troveso

Model: 889XLSBN/CAN
USER MANUAL

*Please ensure that this manual is read and understood before
using the scooter.*



May 2011

Contents		Page
Introduction	2	
Intended Use		2
Feature Guide	3	
Safety Advice	4	
Adjustments		
• Tiller angle		5
• Seat slide		5
• Seat swivel		5
• Seat height		5
Tiller Controls	6	& 7
Brake Release / Freewheel Operation		7
Starting to Drive		
• Getting Started		8
• Moving Off		8
• Steering		8
• Reversing		8
• Gradients and Kerbs		8 & 9
Technical Specification	9	
Batteries and Battery Charger	10	
Maintenance	11	& 12
Troubleshooting		
• Circuit Breaker		12
• Fuses		12
• Check List		13
Further Information	13	& 14
Warranty		

Introduction

Congratulations on your purchase of Shoprider® all weather scooter. This scooter incorporates comfort and style with the latest in technology. The unique weatherproof canopy enables the user to be fully independent all year round. It is also complemented with a full light set that includes front and rear lights, indicators and hazard warning lights enabling it to be used on public roads.

Intended Use

Your scooter was carefully designed for persons with limited mobility. It is for predominantly outdoor use by a single occupant up to a maximum weight of 160kg / 25st.

The intended user should possess the necessary physical, visual and cognitive skills to operate the scooter safely. If you have any doubt, please consult your dealer / prescriber.

Note: Persons with lower body amputations should not use this device unless evaluated with artificial limbs fitted, as stability may be compromised due to an irregular centre of gravity.

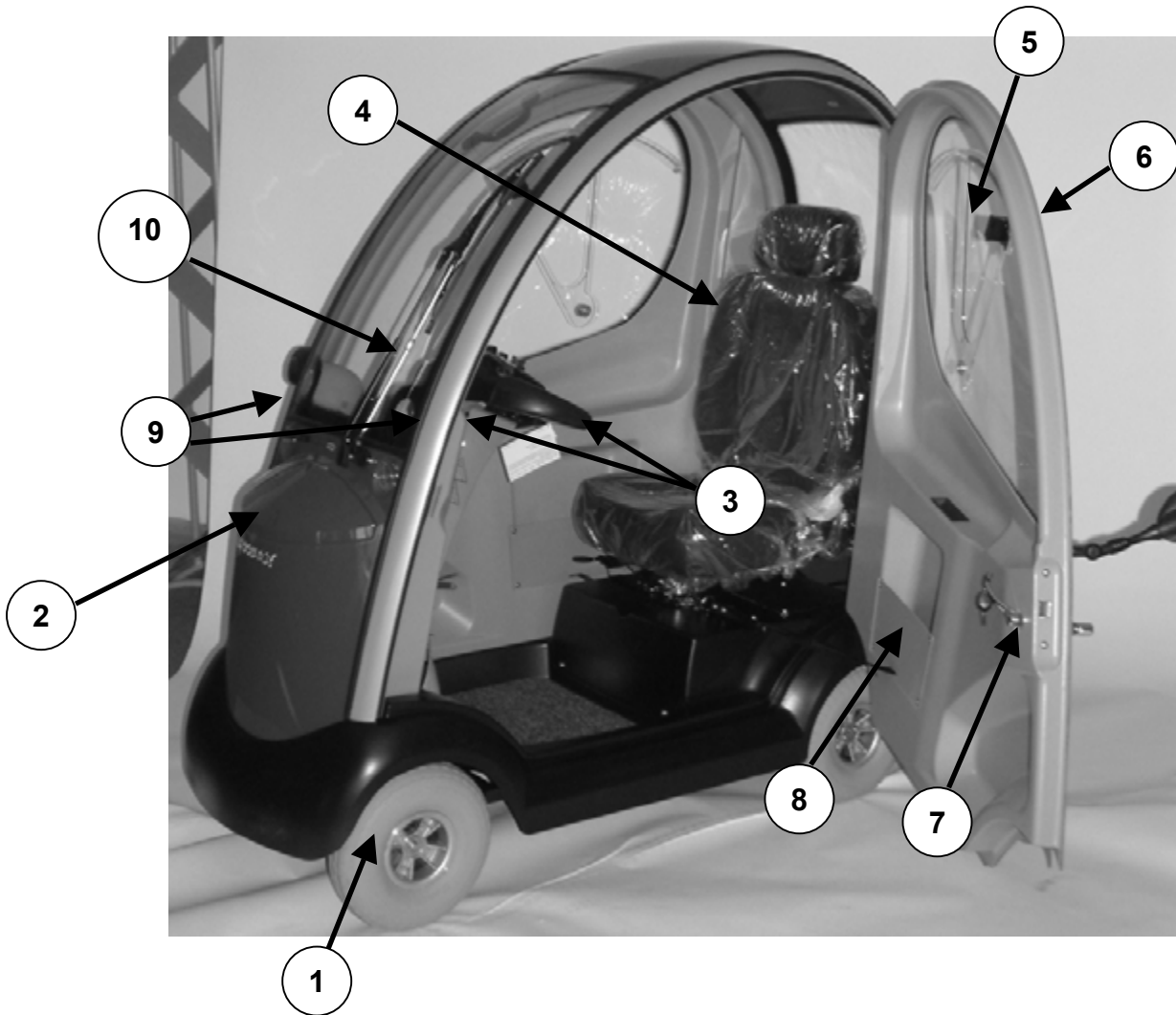
The scooter is classified as an invalid carriage and is not legally defined as a motor vehicle, and therefore the user is not required to possess a driving license. It is exempt from MOT certification.

An invalid can only be used by a person suffering from some physical defect or physical disability aged 16 or over, or by an able bodied person who is demonstrating a vehicle before sale, training a disabled user or taking the vehicle to or from a place for maintenance or repair.

An invalid carriage can be used on public roads, but not on motorways, cycle lanes or bus lanes. When used on pavements or in pedestrian areas the scooter **MUST** be switched to its lower speed limit (see page 6). It is not recommended that the scooter is used on a dual carriageway, but if it is necessary an amber coloured flashing beacon must be used to warn other road users of your presence.

It is important that the user reads and understands the safety advice given within this manual before attempting to operate the product to avoid possible injury to the user or bystanders and avoid damage to the scooter or surrounding property.

Feature Guide



1. 13" diameter wide profile, non-marking wheels
2. Access to external charging port and washer refill bottle
3. Delta tiller controls (page 6) and windscreen wiper / washer switches
4. Fully adjustable 'Captain's' seat
5. Door air vents
6. Removable main door units
7. Lockable doors *
8. Handy door pockets
9. Headlights
- 10...Windscreen wiper

- **Please note that your door key has a three digit number stamped on it. Please make a note of this number and quote it should replacements be needed in case of any accidental loss.**

Safety Advice



DO:

- Read this manual carefully before using your scooter.
- Turn the power off when transferring to and from the scooter.
- Select a slow speed when going down gradients or over uneven ground.
- Keep your feet inside the scooter whilst driving.
- Ensure the batteries are fully charged before your journey.
- Avoid rough or soft terrain and long grass wherever possible.
- Be aware of other road users and pedestrians. **If driving on the road you MUST adhere to the Highway Code.**
- Use lights whenever necessary.
- Turn the power off when not in use.
- Follow the maintenance guide to ensure safe operation of the scooter.
- Always remove the keys if leaving the scooter unattended. Unauthorised persons/children may use the scooter resulting in injury.
- Fit a lap-belt or armrests if you intend to use the scooter with the doors removed.



DO NOT:

- Carry passengers.
- Exceed inclines over 8° (14%).
- Traverse inclines.
- Attempt inclines if the surface is slippery.
- Turn sharply at full speed.
- Exit or enter the scooter unless the power is switched off.
- Switch off the power whilst driving – this will cause the scooter to stop abruptly and could damage the controls. (see emergency procedures on page 15)
- Use the scooter where you cannot safely or legally walk.
- Attempt to climb kerbs over 10cm (4”) high.
- Use the scooter in high winds (speeds in excess of 38mph)
- Use the scooter if under the influence of alcohol or any medication.
- Use a mobile phone whilst driving.
- Attempt to negotiate steps or escalators.
- Transport the scooter with the user inside.
- Attempt to tow any other devices.
- Exceed the stated weight limit.
- Connect any other devices to the batteries as this could cause permanent damage and void your warranty.
- Use any other batteries/charger other than those supplied by RMA.
- Travel through water or over soft terrain (mud, sand etc.).
- Lift the scooter by the cab assembly or any plastic part.
- Store the scooter outdoors uncovered for any period of time.

Every care has been taken to ensure that your scooter will give you safe, reliable service provided you adhere to the advice given above.

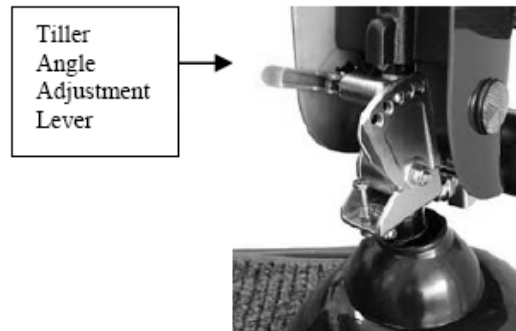
Adjustments

Tiller Angle Adjustment

On the left side of the base of the tiller there is a red lever. Push the lever in to release the pin and select the required tiller angle.

When the desired angle is set, refit the pin into one of the three lower locating holes.

Caution! Ensure the tiller is properly locked into position before driving the scooter.



Seat Depth Adjustment

The seat in the scooter can be adjusted for depth and swivel to allow easy access/exit.

To adjust the depth, pull the seat slide lever upwards, move the seat to the required position and release the lever.

Under the right side of the seat there is a red lever. Pulling up on the lever allows the seat to swivel.



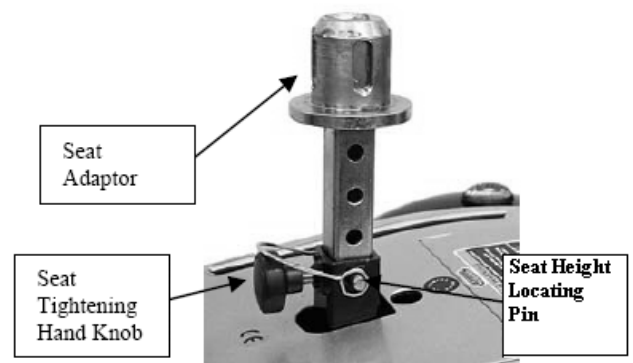
Seat Height Adjustment

To adjust the height of the seat, undo the seat-tightening knob under the front of the seat.

Pull the swivel adjustment lever upwards and at the same time lift the seat from the adaptor.

Remove the seat height-locating pin and set the seat adaptor to the desired height and reset the locking pin.

Reverse the above instructions to replace the seat and re-tighten the hand knob.



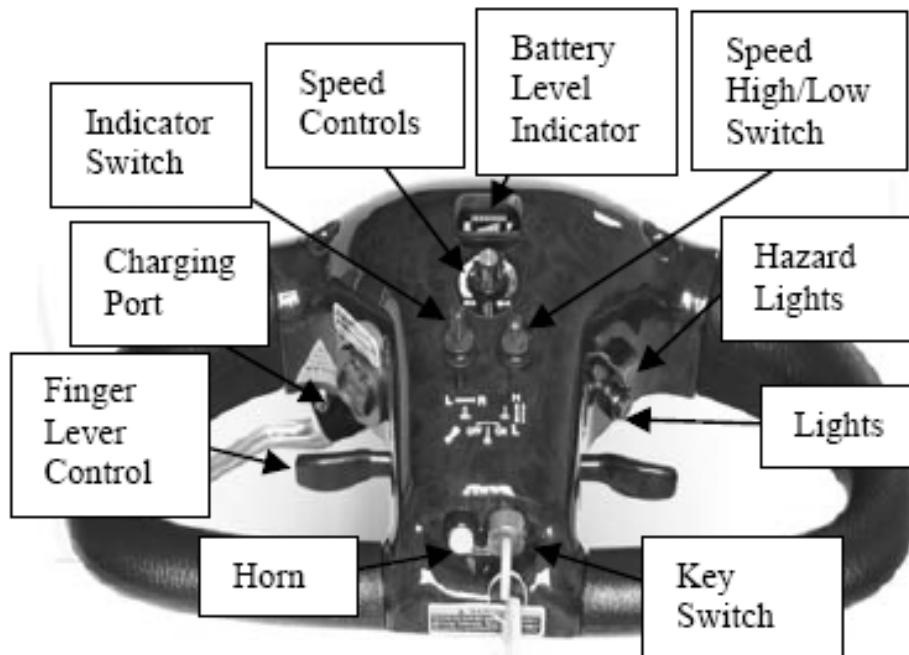
Mirror Fitment

The scooter is supplied with two side mirrors which need to be fitted. Take the 17mm nyloc nut and washer off the mirror stem, open the door and put the threaded end through the side window from the outside. Re-apply the washer and nut and gently tighten until the mirror is steady. Make any final adjustments and gently tighten 'hand tight'.

Caution: DO NOT overtighten the inner nut against the window as this may cause damage.



Tiller Controls



Speed Control:

This allows the user to set the maximum speed of the scooter between 1 (minimum) and 10 (maximum).

Battery Level Indicator:

The number of LED bars lit gives an indication to the amount of charge remaining in the batteries. The amount of charge will only show its true level when the scooter is being driven. ***Do not allow the LED bars to go out completely as complete discharge of the batteries could cause permanent damage to your scooter.***

High/Low Speed Switch:

This sets the maximum high speed for the scooter. This MUST be set to low when used in pedestrian areas. The 'HIGH' setting should only be selected when used on the road.

Hazard Lights:

This red button operates all of the indicators simultaneously.

Lights:

This blue button operates the main front and rear lights.

Key Switch:

The key switch operates the main power for the scooter. When turned clockwise the battery level indicator should light up indicating that the scooter is on. There is a small delay before the thumb lever controls operate as the controller checks the main circuits. ***Do not turn off the power whilst moving, this will cause the scooter to stop abruptly.***

Continued.....

Horn:

This yellow button operates the scooter's horn. *The horn should only be used to warn others of your presence and not as any form of rebuke.*

Thumb / Finger Lever Control:

The finger / thumb lever controls the motion of the scooter as below:-

- Push right lever – reverse motion
- Pull right lever – forward motion
- Push left lever – forward motion
- Pull left lever – reverse motion

Simply release the lever to bring the scooter to a safe stop.

Charging Port:

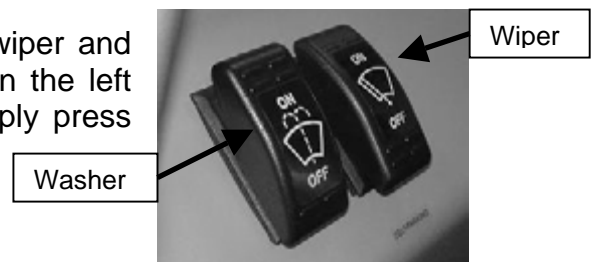
Please refer to page 9 & 10 'Batteries and Battery Charger'

Indicator Switch:

This switch operates the indicator lights of the scooter. Please use the indicators at all times when making manoeuvres on roads.

Windscreen Wiper and Washers:

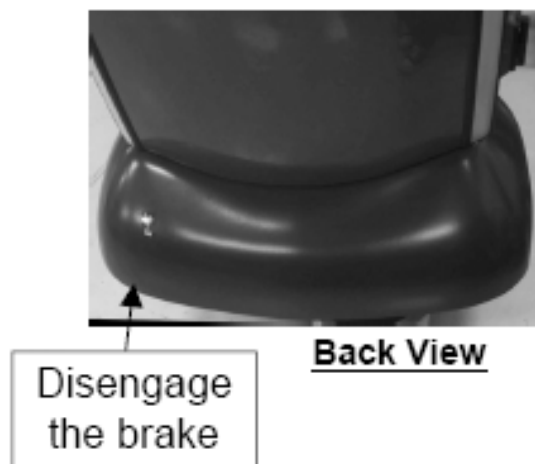
The scooter is equipped with a windscreen wiper and washer system. The controls for these are on the left side of the dashboard. To operate them simply press the switch to either 'ON' or 'OFF'.



Brake Release / Freewheel Operation

The release lever for the electro-magnetic brake is situated under the rear left of the scooter. Ensure that the power is switched off.

In the event of power failure or the need to move the scooter without driving, the electro-magnetic brake can be disengaged by pulling the red lever upwards – this will then put the scooter in 'freewheel' mode. To re-engage the brakes push the lever down fully and ensure that the brake is engaged before entering the scooter.



Continued.....



Caution! NEVER leave the scooter unattended whilst in freewheel mode as it will roll away down an incline. 'Freewheel' mode should only be used in an emergency to move the scooter due to power failure. NEVER move the scooter in this mode whilst it is occupied. Your scooter will continually bleep if it is switched on when in this mode.

Starting to Drive

Getting Started

Select a level area with plenty of space.

Enter the scooter and adjust the tiller and seat as previously described to the desired driving position.

Moving Off

Turn the key clockwise to turn on the power.

Ensure your batteries are fully charged.

Initially set the speed to 1 or 2

Pull your right finger lever, the scooter should move forward slowly. The harder you press the lever the faster the scooter will travel up to its preset maximum speed. Releasing the lever will bring the scooter to a safe stop and the electro-magnetic brakes will be applied automatically.

Steering

Steering the scooter is light and easy. Ensure when starting off you give a wide clearance when turning so that the rear wheels can clear any obstacle that you are passing. When steering through limited spaces such as doorways or when turning around, turn the tiller handle in the direction you want to go and gently apply the power. **NEVER turn sharply when travelling at high speed as this may affect stability.**

Reversing

Before reversing ensure that the area behind the scooter is free from any hazards or obstructions. Adjust the speed setting low before you reverse. Press the left thumb lever and steer wide of all corners and obstacles.



Caution! Do not reverse onto a main thoroughfare. Take care, objects in the rear view mirrors will appear to be further away from the back of the scooter than they actually are.

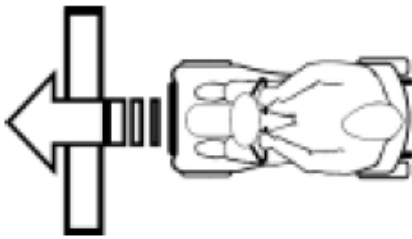
Gradients and Kerbs

We recommend that wherever possible that a suitable access point such as a drop kerb or ramp be used. The necessity to climb a kerb directly should be as a last resort.

If negotiating a gradient or kerb (up to 10cm), always address the situation at an angle of 90° to ensure stability of the scooter. Do not hit a kerb at speed, drive slowly until you reach the kerb then apply more power to travel over the obstacle. **Do not turn sharply on any slope moving forwards or backwards.**

Continued.....

Right



Wrong



Caution! Always ensure that the power is turned off when entering or dismounting the scooter. Take plenty of time to become familiar with the way that the scooter behaves. **DO NOT** drive on public roads until you have the confidence and ability to do so.

Vision

Before driving, always ensure that all windows and mirrors are clean and thoroughly clear of dirt or condensation. Prolonged use in damp or cold conditions may lead to fogging or misting of the windows as in a motor vehicle. Slightly open the windows to allow air to circulate to alleviate any such problems. If necessary, keep a dry cloth or chamois in the cabin to clear the windows when needed.

Technical Specification

The scooter is classified as:

Class 1 Medical Device
Invalid Carriage

Overall Size		Seat Dimensions	
Length	1600mm	Width	500mm
Width	730mm	Depth	440mm
Height	1620mm	Height to floor	660-730mm
Max. Speed	12km/h (8mph)	Backrest height to lowest seat	680-800mm
Height Total	1620mm	Battery charger (off board)	8 amp
Maximum user weight	160kg / 25st	Ground Clearance	70mm
Safe Working Slope	8° (degrees)		

Batteries and Battery Charger

Batteries

The scooter is supplied with two, maintenance free, sealed lead acid AGM batteries. These are fitted under the seat on the scooter.

Battery performance can be affected by low temperatures, rough terrain and the weight of the user. Your battery gauge is a guide only on the level of charge remaining in the batteries.

An active user can use 30% of the battery capacity or more per day.

An inactive user may only use 50% of the battery capacity in a week.

Battery Charger

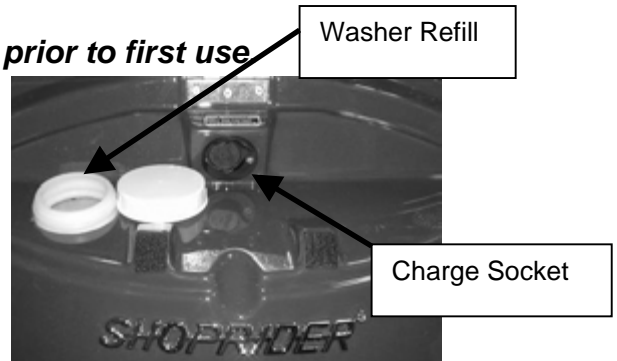
Charge the batteries completely (8-12 hours) prior to first use

Batteries supplied with your scooter are specially designed for use on powerchairs and scooters and require an automatic battery charger. These chargers have an electronic switch that terminates the charge when the batteries are full.

The battery charger is an 8-amp switch mode type off board. The charger is able to read the level of charge in the batteries and will switch off when the batteries are fully charged.

To charge the batteries connect the plug lead into the charging socket (page 7) on the tiller or under the lid (page 3) and the 3-pin plug into the wall socket and switch on.

The battery charger has two lights. A constant red light will show when the battery charger is connected (this will flash if there is a break in the connection). The orange light indicates that the batteries are receiving charge, this will change to green when the charging cycle is complete.



Caution: Always charge the batteries in a well-ventilated indoor area. You must still maintain charging the batteries even if the scooter is not to be used for a prolonged period of time (2 to 3 weeks). Failure to do so could result in permanent damage and render the batteries unusable. Wherever possible do not interrupt the charge cycle until the batteries are fully charged. Continual interruption can permanently damage the batteries. If the charging lead should become damaged discontinue use immediately and seek a replacement from your dealer.



Disposing and recycling of used batteries

Batteries must always be recycled correctly. Do not dispose of them with your domestic refuse.



For further information regarding your nearest recycling facility please contact your local authority.

Maintenance

Cleaning the Scooter

When cleaning the scooter please pay attention to the following points:

- Only use a damp cloth and gentle detergent.
- DO NOT use any abrasive products.
- DO NOT use a hose or pressure washing equipment.
- AVOID water contact with any electrical components.
- DO NOT put the scooter through an automated car wash or similar.

Routine Maintenance



We recommend that the following checks be carried out on a periodical basis by a qualified person:

Scooters Maintenance and Inspection	Daily	Weekly	Monthly	Annually
Check / Charge Batteries	◆			
Check removable parts are secure	◆			
Check electrical connections are secure		◆		
Check tyre pressures (30 psi rear, 25 psi front)		◆		
Check tyre wear (minimum 2mm tread depth)		◆		
Lubricate wheel / castor bearings with a light oil			◆	
Complete inspection by an authorised Dealer				◆

The transaxle/gearbox is a sealed unit and does not need lubricating.

Wheels and Tyres

The wheels of your scooter have split rims. This allows any punctures to be repaired easily.

To change the wheels, remove the centre bolt and slide the wheel off its axle. Ensure that when refitting the wheel the retaining nut is fitted with a locking washer or the screw threads are treated with 'Loc-tite' or a similar thread locking compound. When changing a tyre the inner tube must be deflated. Remove the four bolts from the wheel and slit the rim. Tyre pressure is recommended to be kept at 30psi on the rear and 25psi on the front tyres.

✓ **Note: Regularly check and maintain these tyre pressures, as low tyre pressure can reduce the range of your scooter.**

Continued.....

Product Life Expectancy

Your scooter has been designed to provide the user with a long, reliable life provided it is correctly maintained and regularly serviced by an authorised dealer. However, due to inevitable wear and tear and technological improvements it is recommended that the average usable life of this scooter is five years.

- ✓ **Note: Should any parts need replacing during routine maintenance please consult your local Dealer for approved spare parts for your scooter. Failure to do so may damage the scooter and void your warranty.**

Troubleshooting

Circuit Breaker

Your scooter is fitted with the latest in electronic controls that are programmed to protect the electrical system from abnormal overloads. Fitted for extra protection is a circuit breaker. Should there be a situation where your scooter stops for no apparent reason please check that the circuit breaker has not tripped. The circuit breaker is located through a slot in the shroud underneath the seat behind the seat post. It is marked with an 'ON / OFF' label. Flick the switch over to reset the circuit breaker.



Circuit Breaker
Reset

- ✓ **Note: Should the circuit breaker continue to trip turn off the scooter immediately and consult your dealer.**

Fuses

Inline 100 amp blade type fuses from the batteries protect any overload, and a 15 amp fuse is located in the battery charger as extra protection.

- ✓ **Note: Should the fuses need replacing please contact your dealer to ensure the correct sizes are fitted. Failure to do so could result in permanent damage to the scooter's electronics and possibly cause a fire hazard. Failure to do this will void your warranty.**



Continued.....

Check List

If you scooter fails to operate, please check the following:

- The unit is switched on.
- All plugs and connectors are firmly fixed.
- Battery level shows full charge.
- Freewheeling device is in the drive position (lever down).
- Circuit breaker has not tripped

If the freewheel device has been operated with the scooter left switched on, the scooter will bleep continually and not operate until the ignition key has been switched off then on again.

Please consult your dealer if your scooter does not run after checking these points.

Further Information



Safety Information Regarding Electromagnetic Interference (EMI)

Scooters and powerchairs are designed to operate under certain conditions. However, radio waves or electromagnetic fields may affect the operation of the scooter. The source of EMI could be radio or television transmitters or portable devices such as mobile phones, portable CB radios etc.

Should any unintentional movement occur turn the scooter off as soon as safely possible.

Solar Energy

During periods of sunny weather, it is possible that surfaces of your scooter may reach high temperatures (as with motor vehicles). Please take precautions if leaving the scooter in direct sunlight for any period of time. Seek shade or cover the seat and hand controls to keep any temperature increases to a minimum.

Health Factors

Suitability for this product has been assessed on the user's current state of health. It is essential that the user regularly monitor their ability to use the scooter safely.

Please read and adhere to the guidelines set out in this manual and in the 'Code of practice for Class 3/C vehicle users'

Sleep Mode

Your scooter has a digital battery status indicator, which displays the current charge status of the batteries in your scooter.

The circuitry also detects changes in power draw from the batteries.

If you scooter is left switched on without use for about five minutes the electronics will go into 'sleep' mode to conserve power. You will see one bar on the battery status indicator oscillate from side to side. Simply switching the scooter off and back on will enable the scooter to operate as normal.

Continued.....

General Use

Take heed of the information given in this manual regarding safety and the maintenance of your scooter. If adhered to, your scooter should give you years of reliable mobility.

The scooter is intended for year round use and is therefore designed to withstand inclement weather. However, DO NOT use the scooter in electrical storms, high winds or prolonged downpours. Care must also be taken during cold weather due to icy surfaces.

In warm weather the side doors can be removed without the use of tools to enable the scooter to be used conventionally.

Storage and General Care

We recommend that the scooter is always stored in a dry environment such as a garage or shed to protect the chassis and other components from corrosion or water damage. Do not leave the scooter outside during rainstorms. If the scooter is wet, wipe with a dry cloth to ensure there is no ingress of water into the internal components of the scooter (*If the scooter needs to be cleaned, use a mild detergent and warm water with a damp sponge or cloth. DO NOT throw water over the scooter*).

Product Stability

Scooters and powered wheelchairs are designed to allow the user flexibility of movement in restricted areas. Driving at maximum speed and attempting sharp turns can create a situation where the product becomes unstable. Therefore it is essential that the user pay attention the guidance set out in this manual.

For maximum stability the speed setting should be set up to 50% of the maximum available (halfway between the tortoise and the hare or just entering the red sector on the speed indicator depending on the model).

The main factors affecting stability are:

- Maximum speed setting
- Seat height
- User movement
- User's manoeuvres
- Gradients or slopes

Please keep your speed to a level where you can safely stop without having to make any erratic turns.

Do not load bags etc. on the back of the seat as this will affect the centre of gravity and could increase instability.

Do not lean outside of the 'footprint' of the product, especially whilst moving.

Avoid making turns on gradients or slopes.

Emergency Procedures

Should your scooter behave erratically or become unresponsive whilst driving, release the wig-wag lever so it may return to its neutral position and switch off the power at the key / switch. These procedures will stop the scooter and activate the braking system, preventing any further uncontrolled manoeuvres.

Note: Switching the power off at the key / switch can cause the scooter to stop abruptly and should only be used to stop the scooter during an emergency.

Warranty Terms and Conditions

This is to certify that your Shoprider® product is warranted for a period of 12 months from the date of original purchase. This warranty is not transferable.

Should a defect or operating fault arise within this period the Dealer from where the product was originally purchased should be notified immediately. Failure to register the fault may invalidate the warranty. The Dealer from where the product was purchased is responsible for any warranty repairs.

If a fault occurs within this period due to faulty workmanship or materials that the product will be repaired (or replaced at the Companys discretion) free of charge.

Any unauthorised modifications will invalidate the warranty.

Parts which are subjected to normal wear and tear, accidental damage, neglect or misuse are excluded from this warranty. Normal wear and tear includes tyres, chassis covers, bulbs, seat coverings etc.

Component parts replaced outside this period carry a six-month warranty. (Standard terms and conditions apply for this period).

Model:

Serial No:

Purchase Date:

Dealer Stamp

Distributed by:-
Invamed.co.uk
York Road, Bridgend Industrial Estate,
Bridgend
CF31 3TB
Tel: 01656 674488 Fax: 01656 674499
Email: sales@invamed.co.uk
www.invamed.co.uk

Shoprider reserve the right to change specifications without prior notice



Wellkang Ltd
29 Harley St.
W1G 9QR
LONDON, U.K.

Manufactured by:
Phisiang Machinery MFG. CO. LTD
No. 108 Hsin-He Rd, Hsin-Feng Hsiang, Hsinchu County, Taiwan

