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The team at Drive Medical develops its products to give our customers the freedom to live independently. This encompasses their daily home life and provides them with the opportunity to enjoy an outing with family and friends. Our goal is to develop a range that will provide individuals with a chance to enjoy every day life..

sport rider owner's handbook





SPORT RIDER OWNER'S HANDBOOK

- 1. PREFACE AND INTRODUCTION
- 2. SAFETY NOTICE
- 3. PARTS INTRODUCTION
- 4. OPERATION
- 5. BATTERY CHARGING AND CARE
- 6. INSPECTION AND MAINTENANCE
- 7. TROUBLE SHOOTING
- 8. SPECIFICATION
- 9. WARRANTY

1. PREFACE AND INTRODUCTION

Please carefully read this owner's handbook before using the scooter. Improper use of the scooter could result in harm, injury or traffic accidents. Therefore for maximum pleasure while using the scooter please read this owner's manual.

- This owner's manual includes operation instructions for every aspect of the scooter, assembly instructions, as well as instructions for how to deal with possible accidents.
- The symbols used in this manual are explained below: Read especially the notes marked with these symbols:

	Warning
₽	Improper usage could result in serious injury or death.
al a	Attention
~&	Improper usage could lead to injury and/or damage to your scooter.
	Suggestion
	Follow these instructions to keep your scooter in a good operating order.

- This manual includes a copy of repair and maintenance record chart and warranty information. Please keep it in a safe place or in the scooter.
- If someone else uses the scooter, please make sure that you provide them with the instruction manual for his or her consideration.
- As designs change some illustrations and pictures in the manual may not correspond to the scooter that you purchased. We reserve the right to make design modifications.

Our scooters have been designed and manufactured to provide a comfortable and secure yet affordable solution for some mobility requirements.

Suggestion

To maximize your battery efficiency and life span, please fully recharge your new battery before using.

2. SAFETY NOTICE

2.1 BEFORE DRIVING

The user needs to be familiar with the usage and operation of this scooter before driving. Therefore, please always keep the following safety notices in mind.

The same traffic rules apply to the use of this scooter as apply to pedestrians

For your safety, please follow the rules that apply to pedestrians.

- Please do not drive your scooter after consuming alcohol or when you are tired.
- Please be careful when driving your scooter in low light. It has not been designed for use at night.
- Do not remove any safety parts like Anti-tip devices, bumpers, or Emergency Brake lever.

Practice operating your scooter

Before using the scooter in busy or potentially dangerous areas, familiarize yourself with the operation of your scooter. Please practice in a wide and open area like a park. In order to avoid accidents with your scooter while driving, please bare in mind driving motions, such as accelerating, stopping, turning, reversing, and travelling on gradients.

- Drive slowly (place indoor / outdoor switch in to the 'indoor' position) until you get used to the scooter.
- Watch carefully for pedestrians and drive your scooter accordingly. On public footpaths and in crowded areas always drive with the scooter switched to 'Indoor' speed.
- Drive only where permitted according to all applicable local laws and ordinances.
- Be sure someone accompanies you for safety when driving on the roads for the first time.

• The higher 'Outdoor' speed setting can only be used on highways or on private land. Using the Outdoor speed setting on a public footpath is an offence.

The scooter is designed and built to carry a single occupant only.

• Never operate it with an additional person on board, not even a child.

Do not use this scooter to carry or haul goods

• Do not exceed the maximum weight limit of 180kg (28 stone).

2.2 WHILE DRIVING

Please carry out daily inspections. Refer to the section entitled "DAILY CHECKING"

Do not move your body out of the scooter while moving

- Pay attention that your clothes do not tangle in the wheels.
- Such action may cause you to lose balance and risk injury from falling.

It is advised that you do not use your scooter under the circumstances below.

- On roads with heavy traffic or roads that are muddy, gravelled, bumpy, narrow, snowed over, icy, or canal towpaths not guarded by any fence or hedge. Keep away from places where you might get the wheels stuck.
- Do not drive when it is snowing, misty, or windy.
- Do not drive your scooter in an "S" pattern or make erratic turnings.
- Never use the scooter for climbing up or riding down stairs.

About Mobile Phones and other electrical equipment

- Do not use a mobile phone or other wireless communication devices while driving.
- Always switch off the scooter and remove the ignition key before using a mobile phone.
- Do not charge the mobile phone or any other electrical devices from your scooter's battery.

Automatic Power Shut Down

In order to avoid accidental battery run down, your scooter is equipped with an automatic power shut down facility. If the scooter is switched on, after remaining undisturbed for a period of thirty minutes it will automatically turn off. Should this occur, simply switch your scooter off and back on and it will be ready to use once again.

Ramps, inclines and drops

- Do not drive onto steep ramps greater than 10°.
- Always use a low speed setting when ascending or descending a gradient.
- Do not drive on roads with large drops or potholes.
- Do not cross water gutters where the width is too big and where is a risk of getting the wheels struck.
- Please slow down when driving on roads with inclines.
- Do not make sudden turns when driving on gravel roads or ramps.
- Always lean forward when climbing a steep gradient.

Starting and Driving

- 1. Make sure the seat is installed properly.
- 2. Make sure the tiller has been secured properly.
- 3. Fold down the armrests so you can rest your arms on them.
- 4. Turn the power switch to "ON". If necessary, turn on the headlights.
- 5. Check battery indicator to see whether there is enough power for your journey. If you have any doubt about the remaining power, please recharge the batteries before departure.
- 6. Set the speed dial to a position you feel safe and comfortable with.
- 7. Check the forward/reverse speed lever works correctly.
- 8. Make sure the electromagnetic brake works correctly.

	Warr	ning
	٠	Do not set in the freewheel mode when driving on a gradient.
	•	Do not change the speed selector position while driving.
	•	Do not turn the key switch to "OFF" position while in motion; this is may cause
		abrupt and excessive deceleration which in turn may cause injury to the user and
		damage to the scooter.
•	•	Always re-engage the Freewheel device before use. Failure to do so may result in
×		injury.
	•	To protect your safety, the power will automatically cut off and electromagnetic
		brake system will activate while you are driving down a steep gradient. This will
		limit the speed to a safe level. Turn the power on again to re-start your scooter.
	•	Maximum User Weight Limit – 180kg (28 stone)
		Overloading past the weight limit may lead to damage of your scooter or cause it
		to malfunction and will endanger your safety. The warranty does not cover this
		type of damage.

Attention

- 1. Do not set to the Outdoor speed setting while driving indoors.
- 2. Do not place magnetic devices near the area of the operation handle as this could affect the safe operation of your scooter.
- 3. Do be careful while driving in heavy traffic or crowded areas.
- 4. While reversing the scooter, beware of people or objects behind you.
- 5. Do not release the manual release lever of electromagnetic brake when the scooter is on the slope.
- If for any reason the scooter does not stop when you release the operating lever , immediately use the hand brake to the stop the scooter and turn the key switch to "OFF".

Stopping

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- 1. Release the speed control lever completely. The scooter will naturally brake and stop.
- 2. Turn the power switch to (OFF). Then pull out the key.

2.3 LABELING

Please carefully read all labels on the scooter before driving it. For your future reference, do not remove them.

<u>2.4 EMI</u>

- Scooters may be susceptible to electromagnetic interference (EMI) from sources such as mobile phones, walkie-talkies, TV and radio broadcast stations and amateur radio sets. In some cases, there is a risk this interference may cause involuntary movement of the scooter. The scooter has been tested and passed to withstand interference to a level of 20V per metre.
- 2. Be aware that the above sources may cause involuntary movement due to EMI. Exercise caution whilst using the aforementioned devices and avoid close proximity to TV and Radio broadcast stations.
- 3. The addition of components or accessories may affect the EMI susceptibility of the scooter. Do not fit accessories other than Drive Medical authorised accessories.

Note: Other types of hand-held devices, such as cordless phones, laptop computers, AM/FM radios, TV sets, CD player, and cassette players, and small appliances, such as electric shavers and hair dryers, so far as we know, are not likely to cause EMI problems to your powered scooter.





4. OPERATION

4.1 TILLER POD LAYOUT

- 1. Indicator Stalk
- 2. Head Light Button
- 3. Horn Button
- 4. Indoor / Outdoor Switch
- 5. Forward / Reverse Selector
- 6. Hazard Button
- 7. Power Switch

4.2 INSTRUMENT PANEL (FUNCTION)

- 1. Speedometer (bar graph)
- 2. Speedometer (numerical)
- 3. Functions Display
- 4. Indicator Display LED
- 5. MODE button
- 6. RESET button

MODE BUTTON

- Press the MODE button to move from on function to another.
- 2. The display will alternate between speed and trip distance every 10 seconds unless the button is pressed.

RESET BUTTON

Hold in the RESET button to reset the values stored to zero. Please note the odometer (ODO) will not reset.

Part Code SR001 (Page 7)









FUNCTIONS EXPLAINED

BAR SPD: This shows the current speed (bar graph)

SPD: This shows the current speed (as a numerical value)

MAX: This shows the maximum speed achieved since the panel was last reset.

TRIP: Shows the distance travelled since the since the panel was last reset.

ODO: Shows the distance travelled by the scooter in total (cannot be reset)

RT: Shows the time the scooter has been ridden for since the last reset.

FUNCTIONS	Symbo1	SPECIFICATIONS	INCREMENTS	ACCURACY
Bar Speed Meter		0-80KM/h (50.0M/h)	3.3 KM/h	
Speed Meter	880	2.3-80.0KM/h (50.0M/h)	0.1 KM/H or M/H	+/-1% or +/- 0.1(KPH/MPH)
Maximum Speed Meter	MAX	MAX 2.3-125.0KM/h (78.1M/h)	0.1 KM/H or M/H	1/10/ or
Trip Meter TRIP	TRIP	0.00-9999.99 Km (6249.99 Miles)	0.01 Km or Miles	+ 0.1%
Odometer ODO	ODO	0.0 - 999999.9 Km (0.0- 62499.9 Miles)	0.01 Km or Miles	+ 0.1%
Riding Time RT	RT	0.00'00"- 99:59'59"	1 Second	+ 50PPM

4.2 INSTRUMENT PANEL (VOLTAGE)

- 1. Voltmeter (bar graph)
- 2. Voltmeter (numerical)
- 3. Time and other function Display
- 4. Fault indicator LED
- 5. Headlight LED
- 6. MODE button
- 7. RESET button

TO SET THE TIME:

- 1. Press both the MODE and RESET button simultaneously to enter the time setting mode.
- 2. Press the MODE button to cycle through the AM/PM, hours, minutes and seconds function
- 3. Press the RESET button to alter the time settings.
- 4. Press the RESET button for 2 seconds to set the time and exit the setting mode.

4.3 HOW TO OPERATE THE SCOOTER

Key Ignition:

To start the scooter, insert the key and turn the key 90° away from you.

To switch off the scooter, turn the key 90° towards you and remove the key. The key can only be removed once the scooter has been switched off.

Operating the Throttle

The throttle lever is located on the right side of the handlebars. Squeeze the lever to operate. The more that you squeeze the lever, the faster the scooter will travel. Release the lever and the scooter will automatically stop.



Forward and Reverse

Press the side of the button marked "F" to allow forward travel. The scooter will only travel when the throttle lever is operated. Press the side of the button marked "R" to allow reserving. An alerting alarm will sound automatically when the scooter is reversing.

Emergency Braking

An emergency cable brake is fitted to the scooter. To use the emergency brake, squeeze the brake lever on the left hand side of the handlebar.

Parking Brakes

As default, the electromagnetic brake is used as a parking brake when the scooter is switched off and the key removed.



Warning

The freewheel lever should always be set to "DRIVE" when the scooter is in use or parked. Failure to engage the freewheel lever could result in damage and/or injury.

Indicators (Signalling)

Before turning, press the indicator stalk (located on left hand side of the handlebar) in the required direction of travel. The indicator lights will flash and beep, and the relevant indicator LED on the instrument panel will light. To switch off the indicator, push the stalk to the centre position.

Horn

Press the Horn button to sound the horn. Release the button to stop the horn.

Lights

Press the Head Light button on the left hand side of the handlebar to switch the lights on and off.

Hazard Warning

Press the Hazard Warning button to switch the function on and off. When switched on, all the lights will flash to alert passers-by of the hazard.

Seat

There are two seat adjustment levers located underneath the front right hand corner of the seat. Push the protruding lever to swivel the seat. The seat can swivel 360°, and locks in position in 45° intervals. Push the smaller lever to allow the seat to move backwards and forwards.

The seat can also recline. Press the Recline lever by the rear left hand corner of the seat to change the angle of the backrest.



Warning

Always ensure the seat is locked in the forward position before operating the scooter.

Armrest Width

To adjust the width of the armrests; firstly loosen the knobs at the back of the seat frame. Then adjust the armrest width by sliding the armrest to the required width. Finish by tightening the knobs and checking that the armrests are secured in position.

Freewheel Lever

Drive mode.

Pull the lever back to engage DRIVE mode.

Freewheel mode.

Push the lever forward to engage FREEWHEEL mode.





Warning

Never operate the freewheel lever whilst on a gradient or seated on the scooter. The freewheel lever should always be left in DRIVE unless the scooter is being moved manually.

Main Circuit Breaker (Reset Buttons)

When the voltage in your scooter's batteries becomes low or the scooter is heavily strained because of excessive loads or steep inclines, the main circuit breaker may trip to protect the motor and electronics from damage. The location of the circuit breaker is shown by the arrow on the photograph right



5. BATTERY CHARGING AND CARE

5.1 CHARGING THE BATTERY

Follow the procedure below step by step:

- 1. Switch the scooter off at the ignition
- 2. Connect the charger's power cord into the mains socket.
- 3. Open the charging socket located on the left hand side of the instrument panel. Connect the round plug on the charger to the open socket.
- 4. Switch on the charger.
- 5. Both the charger's lights will be lit during operation. When bulk charging is complete the orange light will turn green.



- 6. For optimum battery performance we recommend that the batteries are charged for 10 hours. We do not recommend that the batteries are charged for less than 6 hours or more than 24 hours as this can cause damage or shorten the lifespan of the batteries.
- 7. After charging, switch off the charger and the mains socket then remove the charger from the socket and the scooter.

Suggestion

- Do not disconnect the charger cord if charging is not completed. The battery life will be seriously shortened or decayed if the battery is repeatedly used without being fully charged. Therefore be sure to charge the battery fully every time.
- 2. Always complete the charging until the orange LED light turns green. NEVER stop charging before it is complete.
- 3. When fully charged, the battery charger will still trickle charge the battery to ensure optimum range.
- 4. If you do not use your scooter for a long time, it should be charged at least every week to keep the battery in a fully usable condition.
- 5. Charging time will be affected by the ambient temperature. Charging time will be longer in the winter.
- 6. After charging, do not leave the charger socket plugged in to the scooter, as this will cause a power drain on the scooter and temporarily reduce its range. The batteries carry a one year manufacturer's warranty. This warranty only covers issues relating to manufacturing faults, and not faults relating to failure to recharge the batteries as instructed above.

Attention
1. Always recharge the battery to its full capacity.
 Only use the charger supplied with the scooter. You could damage the battery and scooter if the incorrect charger is used. Do not disassemble or modify the charger.
 Charge in a well-ventilated space where it is not exposed to sunlight, humidity or moisture.
4. Do not cover the scooter whilst charging.
 Keep away from flammable objects while charging as this may lead to fire or explosion.
6. Never connect or disconnect the plug or cord with wet hands or in wet conditions as this could result in electric shock.

The scooter is immobilized whilst the charger is plugged in to the scooter.

Both the chargers red and orange lights will be illuminated during charging. The orange light will turn green when charging completed. If only the red light is lit during charging then there is a problem with the scooter and/or charger. In this instance contact the outlet from where the scooter was purchased.

Warning

The charger light is lit orange the internal fan on the charger should operate. If the fan has not started to operate after 2 minutes, unplug and remove the charger and contact your dealer. Charging the battery with the fan operating can result in overheating and fire.

5.2 ABOUT THE BATTERIES

- Do not expose or charge the batteries in temperatures below -10°C or above 50°C. Extreme temperatures can cause the battery to freeze, overheat, or shorten the battery lifespan.
- The batteries are sealed and there is no need to monitor or replenish water levels.
- The batteries do require charging on a regular basis, even if the scooter is not in use. The batteries should be charged at least once a week, irrespective of use.
- The batteries should be replaced when the battery range is about half the range of when the batteries were new. Please contact dealer for more information about changing the batteries.
- The batteries should be cleaned periodically, usually when the scooter is serviced. We recommend this is done by your dealer who may charge a fee for this. If the battery terminals are covered in water, battery acid, dust or other substances they will discharge quickly. Ensure the scooter is switched off and the batteries are disconnected before cleaning. Use clean cloth to wipe the soiled area. If the terminal is covered by a white powder, use a little warm water a clean cloth.



Warning

Do not open the battery case, as this can cause damage or injury.

6. INSPECTION AND MAINTENANCE

Suggestion

- 1. If necessary, ask for help from your dealer for advice about maintaining and replacing the battery.
- 2. Make sure the terminals are installed properly and put the cover back on.
- 3. Do not use the battery to charge telecom equipment or other items.
- 4. Battery efficiency will vary with outside conditions; the driving distances will be shorter in the winter. If the scooter is not used for a long time, please charge the battery at least every week.
- 5. Replace both batteries together.

INSPECTION

Check following items before driving:

ltem	Inspection Content						
Handlebar	♦ Is there any looseness?						
Hanalebar	 Can it turn left and right smoothly? 						
Speedlever	 Does the scooter move when the lever pressed down? 						
Speed Lever	Does the scooter stop when the lever is released completely?						
Mahan	 Are there an abnormal noise coming from the motor? 						
Motor	 Do the electromagnetic brakes work properly? 						
Freewheel Mode	 Does the freewheel mode lever work properly? 						
Dutten la die sten	 Is the light on when the power is switched on? 						
Battery Indicator	Is the remaining power enough for your trip?						
Horn	 Does the horn work? 						
Seat	 Can the seat swivel smoothly? 						
Reflector	 Is the reflector present and correct? 						
T	 Are there any cracks or other damage to the tires? 						
Tyres	 Check the tyre tread depth. 						
Other	Are there any abnormal noises?						
Other	Is there oil leakage from transmission box?						

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Attention

Consult your dealer should you find anything wrong during the tests above.

REGULAR CHECKING RECORD

To make sure your scooter is correctly serviced, take it to your dealer for regular maintenance checks. This should be at intervals of six months after the first inspection after one month. Your dealer may charge a fee for this service. A copy of the service record is located at the back of this handbook.

FUSES

• If the battery charger is turned on and no lights are lit, check the fuse in the plug and the charger.

TYRES

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Please check the tread depth regularly. Replace the tires when the tread depth is less than 0.5 mm.

Attention

When tread depth is below 0.5mm it can easily lead to scooter slippage, making braking distances longer. Therefore replace the tires as early as possible when they do not have insufficient tread depth.

The tyre pressure shall be kept at about 26 PSI (approx. 1.8KG/cm) for the best ride and handling.

Attention

- Switch off the scooter at the ignition and remove any power cords before conducting any maintenance on your scooter.
- Do not hose down or splash water on to your scooter to clean as this can damage the scooter.
- Do not use wax, petrol, solvents or vaporizing solutions as these can damage the body shrouds.

STORING THE SCOOTER

Store the scooter in a location away from direct sunlight or moisture. Store with the scooter switched off, the key removed and the seat in the forward position. If the scooter is being stored for a long time, disconnect the batteries. Ask your dealer for advice on how to do this.

MANUALLY MOVING THE SCOOTER

Before manually moving the scooter, switch it off at the key ignition.

The scooter is very heavy so if possible put the scooter in to freewheel mode and push the scooter.

If you do need to lift the scooter, lift by the chassis and not the bumpers as this can cause damage or injury. You will need at least 3 people to lift the scooter.

7. TROUBLESHOOTING

You can inspect the following before taking you scooter to the dealer.

Symptom	Remedy
The scooter will not switch on	Try recharging the battery
	Check the fuse and circuit breaker in the scooter
The scooter switches on, but the scooter will not move.	 Ensure there is enough power in the batteries. If not, recharge the batteries.
	 Ensure the freewheel lever is engaged in the 'DRIVE' position.
The scooter appears slow	 Check the battery power level and recharge
	 Check the speed dial is not set to slow.
The seat turns when in operation	• Slowly rotate the seat until it drops in to place and is secure
The handlebar appears loose	 Tighten the height adjustment handle to secure the handlebar
Involuntarily horn sounds	• Ensure that the wigwag paddle is released.
	• Switch the scooter off and on.
	Recharge the batteries.
	If problem persists contact your dealer.

If the above does not resolve the problem or the problem keeps occurring, contact your dealer.

8. SPECIFICATION

Model	SR001BLK	Battery	100ah 12V x 2
Dimensions	165cm x 78cm x 112cm	Controller	160A Dynamic Rhino
(L x W x H)	65" x 31" x 44"	Front Tyre	2.75-14 x 1
Weight	100kg (220lb)	Rear Tyre	2.75-14 x 1
Turning Radius	157cm (62")	Drive System	Rear wheel direct drive
Max. Angle	100	Primary Braking	Electromagnetic
Cruising Range	31 miles (50km)	Secondary Braking	Cable brake
Weight Limit	180kg (400lb)	Control method	Throttle lever
Max Speed	8mph (12.9km)	Motor (4-pole)	1300W 4300rpm (1.75hp)

The manufacturer reserves the right to modify the specification if necessary. The final specification is subject to the individual scooter you purchase from your dealer.

Note:

Maximum driving distance is based on an ambient temperature of 20°C, a 100kg driver and a brand new fully charged battery by a constant driving speed at 6 km/h with 70% battery power discharged.

VIN NUMBER

To ensure the correct after sales service and warranty service support, please write down the scooter serial number. The serial number is located on the back right-hand side of the frame.

VIN Number	
Motor S/No.	
Controller S/No.	

Also, note your Drive Medical dealer below:

Dealer	
Address	
Postcode	
Telephone	

WARRANTY

There is a comprehensive twelve-month warranty from the date on which your new scooter is delivered. The warranty covers the scooter for repairs or replacement during this period. For more detail, please see the Warranty Conditions below.

Warranty Conditions:

- Any work or replacement part installation must be carried out by an authorized Drive Medical dealer / service agent.
- 2. To apply the warranty should your scooter require attention please contact the designated service agent listed above.

3. Should any part of the scooter require repair or full or part replacement, as a result of a manufacturing or material defect within twelve months of receiving the scooter, replacement parts will be supplied free of charge.

Note: This guarantee is not transferable

- Any repaired or replaced parts will be covered by this warranty for the balance of the warranty period on the scooter.
- Consumable items supplied will not generally be covered during the normal warranty period unless such items require repair or replacement clearly as a direct result of a manufacturing or material defect.
 - Such items include (among others): upholstery, tyres and batteries.
- 6. The above warranty conditions apply to brand new scooter purchased at the full retail price. If you are unsure whether your scooter is covered, check with the service agent.
- Under normal circumstances, no responsibility will be accepted where the scooter has failed as a direct result of:
 - a) The scooter or part not having been maintained in accordance with the manufacturer's recommendations.
 - b) Failure to use the manufacturer's specified parts
 - c) The scooter or part having been damaged due to neglect, accident or improper use
 - d) The scooter or part having been altered from the manufacturer's specifications or repairs having been attempted before the service agent is notified

Please note your local service agent's contact details in the previous box. In the event of your scooter requiring attention, contact them and give all relevant details so they can act quickly.

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

APPENDIX: SERVICE RECORD

YEAR	1	2	3	4	5	YEAR	1	2	3	4	5
Service Dates						Service Dates					
Controller						Upholstery					
On/off switch						Seat					
Control Lever						Back					
Braking						Armrests					
Recharge point						Electrics				_	
Batteries						Connections condition					
Capacities						Lights					
Connections						Test run					
Discharge test						Forwards					
Wheels and Tyres						Reverse					
Wear						Emergency stop					
Pressure						Left turn					
Bearings						Right turn					
Wheel nuts						Slope test					
Motors						Over obstacles					
Wiring						List Items repaired					
Noise											
Connections											
Brake											
Brushes											
Chassis											
Condition											
Steering											