

Discovery 8

User Manual



Welcome!

Congratulations on the purchase of your new Discovery 8 Mobility Scooter! The advanced design of the Discovery 8 ensures many years of enhanced trouble-free mobility. Correct use improves your mobility and quality of life.

Your safety is important to us.

Please read this owner's manual before using the scooter. Improper use of the scooter could result in harm, injury, or traffic accidents. Correct use improves your mobility and quality of life. This user manual includes operation instructions for every aspect of the scooter.

Contents

| | |
|--|----|
| 1.0 Safety Guidelines | 2 |
| 2.0 Pre-Ride Safety Check..... | 3 |
| 3.0 Specification | 4 |
| 4.0 Components of the scooter..... | 5 |
| 5.0 Operation – Control Panel..... | 6 |
| 6.0 Operation – Before Getting on Your Scooter | 16 |
| 7.0 Operation – Getting on Your Scooter | 18 |
| 8.0 Operation – Operating Your Scooter..... | 23 |
| 9.0 Operation – Getting Off Your Scooter | 27 |
| 10.0 Operation – Batteries and Charging | 27 |
| 11.0 Operation – Disassembly and Assembly..... | 30 |
| 12.0 EMI / RFI | 31 |
| 13.0 Daily Checking..... | 32 |
| 14.0 Maintenance..... | 34 |
| 15.0 Storage..... | 34 |
| 16.0 Basic Troubleshooting | 35 |
| 17.0 Flash Codes | 36 |
| 18.0 Warranty..... | 37 |

1.0 Safety Guidelines



WARNING! An authorized Provider or qualified technician must perform the initial setup of this scooter and must perform all the procedures in this manual.

The symbols below are used throughout this owner's manual and on the scooter to identify warnings and important information. It is very important for you to read them and understand them completely.



WARNING! Indicates a hazardous situation that could result in serious injury or death if it is not avoided.



CAUTION! Indicates a hazardous situation that could result in minor or slight injury if it is not avoided.



IMPORTANT! Indicates a hazardous situation that could result in damage to property or to the product if it is not avoided.



USEFUL TIP! Recommendations and information for efficient, trouble-free use.

Your scooter is a state-of-the-art life-enhancement device designed to increase mobility. We provide an extensive variety of products to best fit the individual needs of the scooter user. Please be aware that the final selection and purchasing decision regarding the type of scooter to be used is the responsibility of the scooter user who is capable of making such a decision and his/her health care professional (i.e. medical doctor, physical therapist, etc.).

The contents of this manual are based on the expectation that a mobility device expert has properly fitted the scooter to the user and has assisted the prescribing health care professional and/or the authorized provider in the instruction process for the use of the product.

There are certain situations, including some medical conditions, where the scooter user will need to practice operating the scooter in the presence of a trained attendant. A trained attendant can be defined as a family member or care professional specially trained in assisting a scooter user in various daily living activities.

As you begin using your scooter during daily activities you will probably encounter situations in which you will need some practice. Simply take your time and you will soon be in full and confident control as you manoeuvre through doorways, on and off elevators, up and down ramps, and over moderate terrain.

Additional general information can be found on the supplemental information sheets and booklets included in your Owner's Package. Please fully read and review the information and keep it readily available for future reference. One Rehab reserves the right to update this manual without notification.

2.0 Pre-Ride Safety Check

Get to know the feel of your scooter and its capabilities. We recommend that you perform a safety check before each use to make sure your scooter operates smoothly and safely.

Perform the following inspections prior to using your scooter:

- Check the condition of the tyres. Make sure they are not damaged or excessively worn.
- Check all harness connections. Make sure they are secured properly.
- Check the battery condition meter to ensure the batteries are fully charged.
- Ensure the manual freewheel lever is in drive mode before sitting on the scooter.

If you discover a problem, contact your authorized Provider for assistance. Please refer to the Contact Information insert in your Owner's Package.



WARNING! Never exceed the maximum permissible load – see 3.0 Specifications and never use the scooter to transport more than one person.



WARNING! Never drive the scooter under the influence of medication or alcohol.



WARNING! Never attempt to get onto or off your scooter without first removing the key from the key switch. This will prevent the scooter from moving if accidental throttle control lever contact is made.

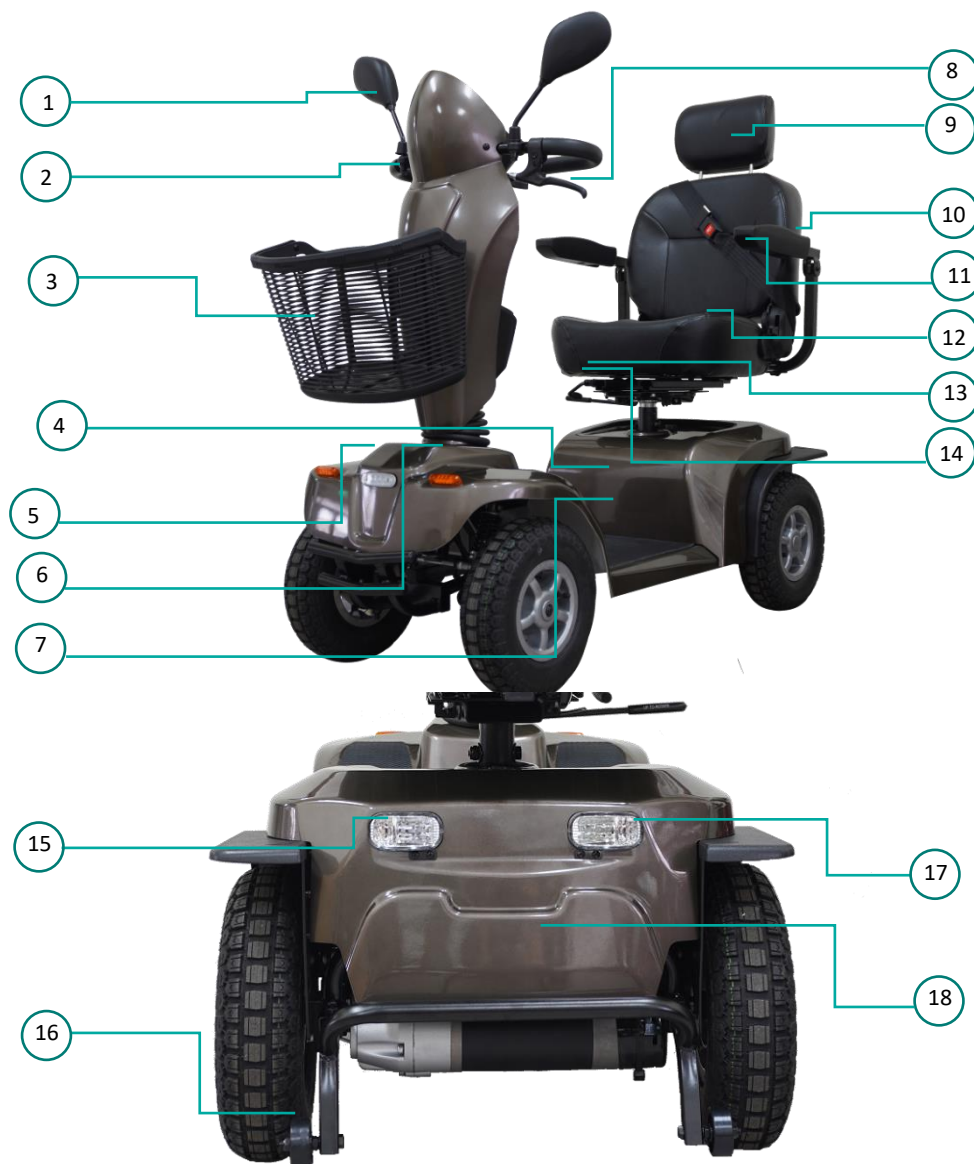
3.0 Specification

| Model Reference | Discovery 8 |
|--------------------------------------|--|
| Speed (Max) | 8 mph |
| Travel Range (Max)* | 25 mi. (40 km)* |
| Battery (Max) | 2 x 12V 50Ah AGM |
| User Weight (Max) | 25 st. (160kg) |
| Total Weight without batteries | 78 kg |
| Total Weight with batteries | 110 kg |
| Overall Length | 1310 mm (51 in.) |
| Overall Width | 630 mm (25 in.) |
| Overall Height | 1220 mm (48 in.) |
| Folded Height (Tiller Down/Seat off) | 870 mm |
| Climbing Gradient (Max) | 9 Degrees |
| Turning Radius (Min) | 1400 mm (53 in.) |
| Ground Clearance (Max Mid Frame) | 140 mm (5.5 in.) |
| Seat Type | Deluxe Adjustable Captain |
| Seat Width | 460 mm (18 in.) |
| Seat Height | 450 – 560 mm |
| Front Tyre – Pneumatic | 330 mm (13 in.) |
| Rear Tyre – Pneumatic | 330 mm (13 in.) |
| Pneumatic Tyre Pressure | 35 psi |
| Suspension | Adjustable Rear Suspension |
| Lights | LED Front and Rear |
| Basket | Black Plastic Basket |
| Tiller Type | LCD Splash proof tiller top, Gas Assisted Delta Handle |
| Charger | 5 Amp |
| Charging Type | Tiller |
| Controller | PG S-Drive 90 Amp |
| Brake | Hand and Electric Brake |
| Vehicle Class | 3 |

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

*Subject to user weight and terrain

4.0 Components of the scooter



| | | | |
|----|------------------|-----|----------------|
| 1. | Rear View Mirror | 10. | Armrest |
| 2. | Delta Handle | 11. | Seat Belt |
| 3. | Basket | 12. | Seat |
| 4. | Battery Location | 13. | Slider Lever |
| 5. | Headlight | 14. | Swivel Lever |
| 6. | Front Indicator | 15. | Rear Light |
| 7. | Feet Deck | 16. | Anti-tip Wheel |
| 8. | Hand Brake | 17. | Rear Indicator |
| 9. | Headrest | 18. | Rear Shroud |

Your scooter is equipped with several elements and parts. You should know these before using the scooter. Designs and specifications may change without prior notice.

5.0 Operation – Control Panel

| | | | |
|---|------------------------|---|--|
| A | Driving Status | D | Left-sided throttle lever (backward) |
| B | Liquid-crystal Display | E | Right-sided throttle lever (forward) |
| C | Operating Buttons | F | Auxiliary throttle lever – left side (forward) |
| H | Speed Knob | G | Auxiliary throttle lever – right side (backward) |



The following pages will show a breakdown of each feature of the control panel.

5.1 Driving Status Signal (A)

The following buttons are along the top of the status panel which give you the key driving signals, they light up when in use:



Direction Indicator – Left Turn



Headlight



Power on and off / Driving status signal

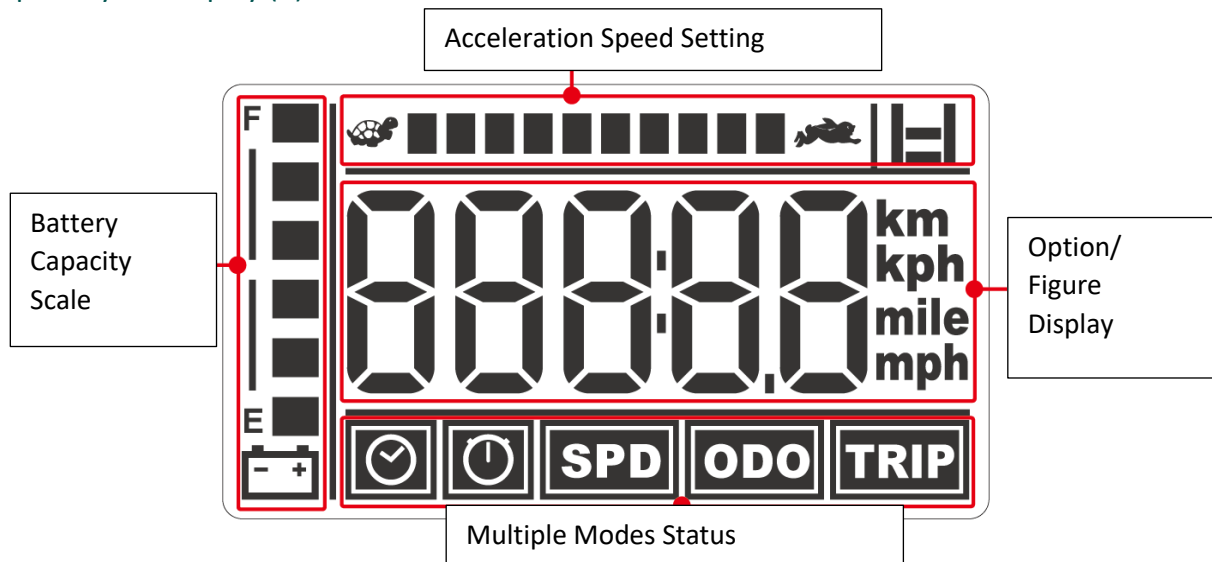


High Speed














Direction Indicator – Right Turn

5.2 Liquid Crystal Display (B)












The liquid crystal display is operated by the buttons below the display. The button functions are as show in section 5.3.

5.3 Operating Buttons (C)

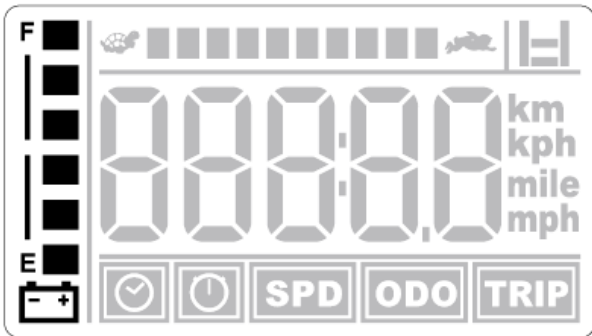
| Button | Description | Signal |
|---|---|---|
|  | <p>MODE button:</p> <p>Press Mode button several times to access multiple option modes, in a sequence of:</p> <p>Clock mode→Travel Time mode→Speed mode→Odometer mode→Travel Mileage mode</p> <p>The setting status will be shown on LCD screen</p> | |
|  | <p>RESET button:</p> <p>Used to enter or finish setting of “Clock mode” and “Speed mode”, used for recovering in “Travel Time mode” and “Travel Mileage mode.” (as explained in section 5.4)</p> | |
|  | <p>HEADLIGHT button:</p> <p>Press the button once to turn the lights on, then press the button again to turn the lights off.</p> |  |
|  | <p>LEFT-SIDED INDICATOR button:</p> <p>Press the Left-sided indicator button once and it will flash (light on every 0.5 second / light off every 0.5 second). Then press the button twice for to turn the left-sided indicator off.</p> |  |
|  | <p>RIGHT-SIDED INDICATOR button:</p> <p>Press the Right-sided indicator button once and it will flash (light on every 0.5 second / light off every 0.5 second). Then press the button twice to turn the right-sided indicator off.</p> |  |
|  | <p>HAZARD LIGHTS button:</p> <p>Press the Hazard Light button once and the Left/Right-sided Indicators will flash simultaneously (light on every 0.5 second / light off every 0.5 second), then press the button again to turn off the hazard light. Press down on the button for 2-3 seconds to set the <u>warning sound</u> on, lift your finger off the button to turn the warning sound off.</p> |  |
|  | <p>HORN button:</p> <p>Press the Horn button down for 2-3 seconds and the buzzer alarm will sound. Release the button to stop the buzzer. Do not hesitate to use the warning horn when doing so may prevent an accident or injury.</p> | |

Operating Buttons Cont.

| Button | Description | Signal |
|---|---|---|
|  | <p>SPEED KNOB DIAL:</p> <p>To turn the speed up, turn the knob to right side (signal "+") for accelerating speed.</p> <p>To turn the speed down, turn the left side (signal "-") for decelerating speed.</p> | |
|  | <p>P button:</p> <p>Press the P button and hold to increase the accelerating speed. This will show on the LCD display:</p> | |
| |  | |
|  | <p>D button:</p> <p>Press the D button and hold to decrease the accelerating speed. This will show on the LCD display:</p> | |
| |  | |
|  | <p>Hi/Lo button:</p> <p>Press the H/L button once to change from Low to High speed. High Speed will be shown by the button on the driving control panel lighting up (picture right) and the LCD display will show:  in the top right corner.</p> <p>Press the button the H/L button again to change from High Speed to Low speed. Low Speed will be shown by the button on the driving control panel turning off (picture right) and the LCD display will show:  in the top right corner.</p> <p>L – Low speed limits the maximum speed to 4mph</p> <p>H – High Speed allows scooter to travel at maximum speed to 8mph.</p> |  |


5.4 Description and Operation of the LCD Display (B)

LCD Display



Description

Battery capacity scale:

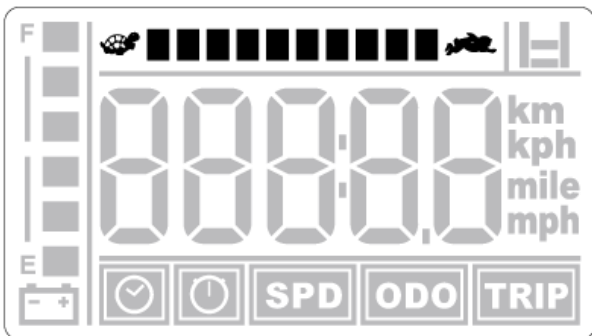
The battery capacity scale shows the level of charge in your batteries. Fully charged batteries (F) are shown when all 6 scales are in black. Empty batteries (E) are shown when none of the 6 scales are black. When the batteries are empty, the battery signal  will flash.

Low Battery Voltage Warning Sound:

When the battery capacity is less than 1 scale, the Low Battery Voltage Warning Sound will alarm automatically (alarm once every 15 seconds), press any button to stop the alarm for 15 minutes.



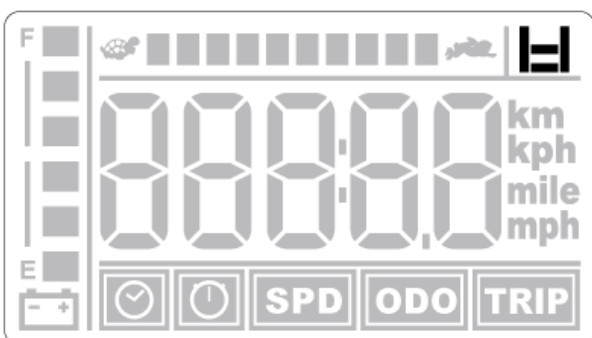
WARNING! Before charging, please read the 'Charging your batteries' section on page 26.



Acceleration speed setting:




The P and D buttons are for fine tuning of speed. This determines the speed with which you start off at. To increase the accelerating speed, press P. To decrease the accelerating speed press D.



High/Low setting:



H/L button  is for setting the speed mode. Press to change to high speed mode and press again to return to low speed mode.



Low Speed Mode

Low speed limits the maximum speed to 4mph.

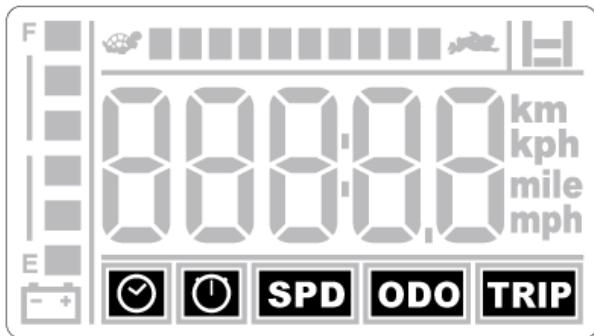


High Speed Mode

High speed allows the scooter to travel at a maximum speed of 8mph.

Description and Operation of the LCD Display Continued

LCD Display



Description

Function mode option:

Press 'MODE button'  in sequence :



indicates clock time



indicates travel time



indicates speed

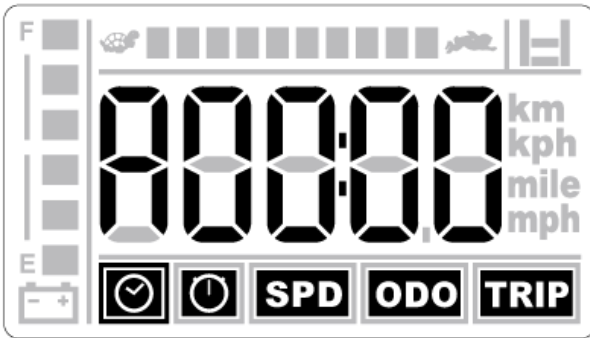


indicates odometer



indicates travel mileage

LCD Display



Description

Clock Function (Date/Time):



How to change the Date & Time:

1. Ensure the clock function is **selected** using the mode button.
2. **Set the year**

Press the Reset button **R**

This will bring up the year. You can adjust the year by pressing the **D** button. Once you

have selected the year press the **P** button to enter the next setting mode.

3. **Set the Month and the day**

Once you have done point 2, you can set the month. You can adjust the month and the day by pressing the **D** button. Once you have

selected the month and the day press the **P** button to enter the next setting mode.

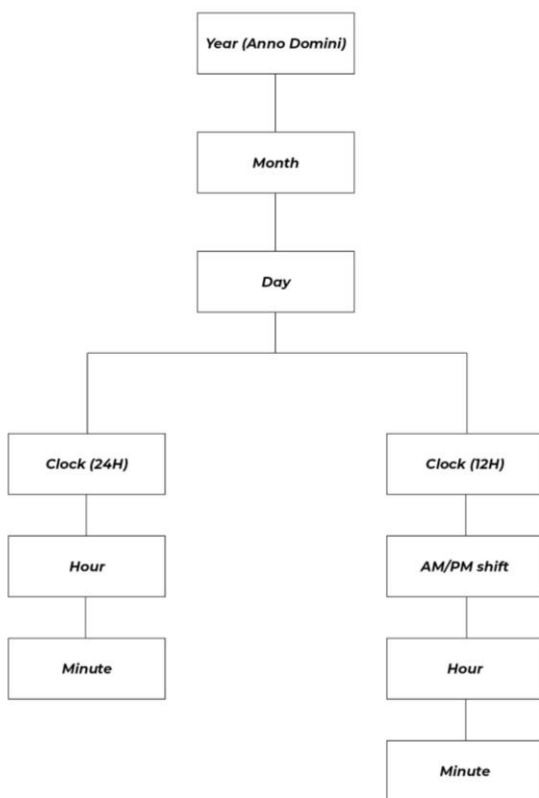
4. **Choose if you want 24- or 12-hour clock.**

Once you have done point 2 and 3, you can choose whether you want a 24- or 12-hour clock by pressing the **D** button. Once you

have selected the clock mode you want press the **P** button to enter the next setting mode.

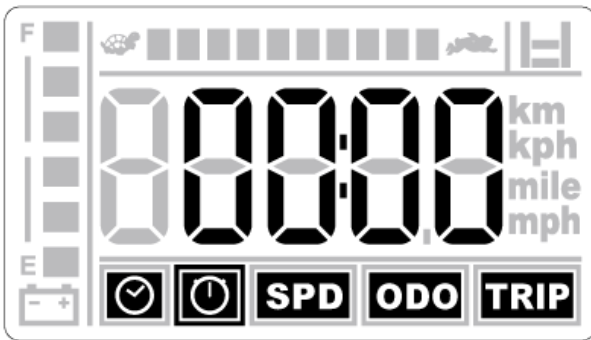
5. **Set the time.** Once you have done point 2, 3, and 4 you can change the time by pressing the **D** button.

6. **Press RESET button **R**** to finish setting, if the user forgets to press RESET button, then the system will automatically save the setting after stopping in 2 minutes.



Description and Operation of the LCD Display Continued

LCD Display

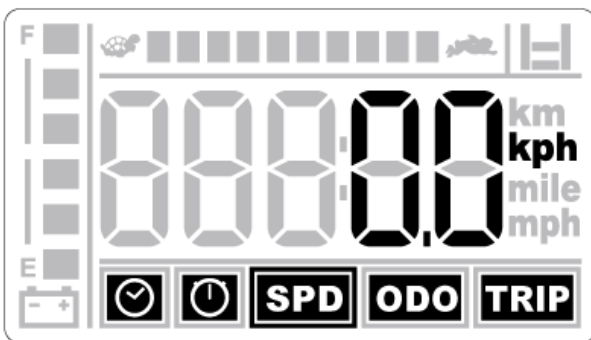


Description

Travel Time function:

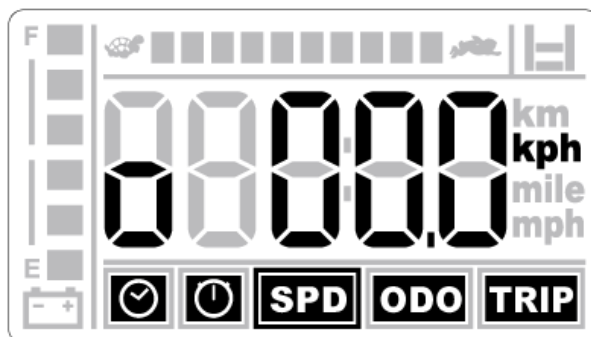


You can record the travel time of the scooter. Press RESET button **(R)** then travel time will recover to zero. Wait 5 seconds and the display travel time will show from 0-99999H (display according to the record).



Speed function: **SPD**

This displays the driving speed from 0.0 kph/mph to actual kph/mph.



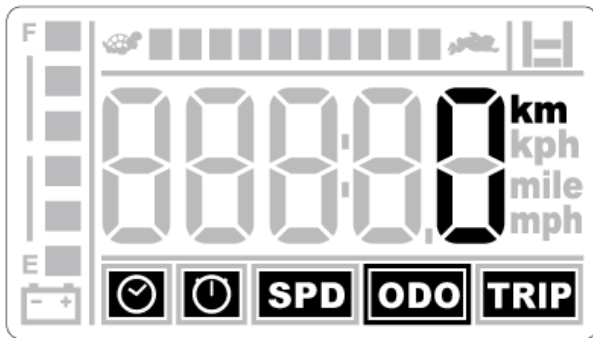
Speed Measurement Change: **kph mph**

To change the speed from kph to mph and vice versa:

1. Press the RESET button **(R)**
2. Then then switch between kph/mph by pressing the **(P)** button
3. Finally press RESET button **(R)** to confirm the setting measurement.

Description and Operation of LCD Display Continued.

LCD Display



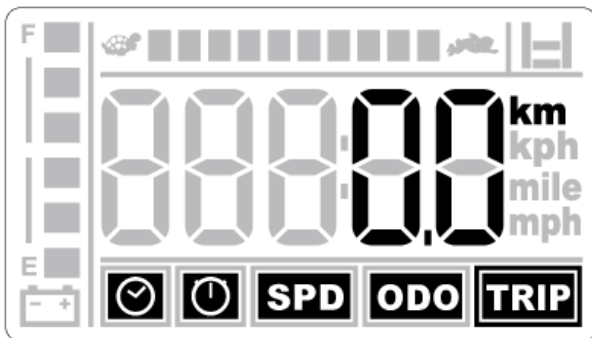
Description

Odometer function: **ODO**

This displays the total odometer of driving distance from 0-99999 km or 0-99999 miles.

Description and Operation of LCD Display Continued.

LCD Display



Description

Travel Mileage function :

TRIP

This displays the total distance of a trip from 0.0-9999.9 km or 0.0-9999.9 miles.

To reset the trip mileage:

1. Press the RESET **R** button and the travel mileage will go back to zero "0".

Electricity saving:

When the user stops using the scooter, the LED lights will turn off after 5 minutes. It will enter sleep mode 30 minutes later. To light it up again, press any button.

Function locking: **SPD**

When the user presses the speed throttle lever, it will automatically shift to the speedometer on the LCD screen. To see another setting, the user must stop 3 seconds then you can shift the setting mode.

6.0 Operation – Before Getting on Your Scooter

- Keep your batteries fully charged and avoid deeply discharging your batteries.
- Never leave the manual freewheel lever in the forward position unless you are manually pushing your scooter.



WARNING! Never attempt to get onto or off your scooter without first removing the key from the key switch. This will prevent the scooter from moving if accidental throttle control lever contact is made.



WARNING! Never sit on the scooter when it is in freewheel mode.



WARNING! Never exceed the maximum permissible load – see 3.0 Specifications and never use the scooter to transport more than one person.



WARNING! Never drive the scooter under the influence of medication or alcohol.

6.1 Freewheel Lever

The Freewheel lever on the scooter is located on the rear section of the scooter. Before driving the scooter needs to be put into the drive position. The two positions are:

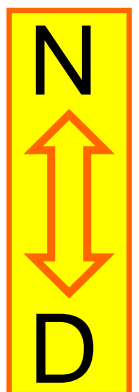
- 1) **Drive position** - is indicated by 'D' - pull the lever downwards for this position. (Fig 6.1.1) This will put the scooter into gear.
- 2) **Freewheel position** - is indicated by 'N' – pull the lever upwards for this position. (Fig 6.1.2) This will enable you to push the scooter without the use of your ignition key.



Fig 6.1.1



Fig 6.1.2



WARNING! Always remove the key switch before placing your scooter into or taking it out of freewheel mode.



WARNING! Never sit on the scooter when it is in freewheel mode.



WARNING! Never put your scooter in freewheel mode on any incline.



WARNING! When your scooter is in freewheel mode, the braking system is disengaged.



WARNING! Disengage the drive motors only on a level surface.



WARNING! Ensure the key is removed from the key switch.



WARNING! Stand to the side of the scooter to engage or disengage freewheel mode. Never sit on a scooter to do this.



WARNING! After you have finished pushing your scooter, always return it to the drive mode to lock the brakes.

7.0 Operation – Getting on Your Scooter



WARNING! Never attempt to get onto or off your scooter without first removing the key from the key switch. This will prevent the scooter from moving if accidental throttle control lever contact is made.

- Make certain that the key is removed from the key switch.
- Stand at the side of your scooter and disengage the seat rotation lever by pushing up (Fig 7.0.1) and rotate the seat until it is facing you.



Fig 7.0.1

- Position yourself comfortably and securely in the seat.
- Disengage the seat rotation lever again by pushing up (Fig 7.0.1) and rotate the seat until you are facing forward.
- Make certain that the seat is secured into position. The seat lever will click into place.
- Make certain that your feet are safely on the floorboard.

7.1 Seat Adjustments

You can make several more adjustments to the seat.

Headrest Height

- Press the button to adjust the height of the headrest upwards or downwards to your preferred position. (Fig 7.1.1)



Fig 7.1.1

Backrest Angle

- Lift the lever positioned on the left side of the seat to adjust the back angle. Note this lever can also be used to fold down the backrest for transport and storage. (Fig 7.1.2)



CAUTION! Hold the seat when you lift the lever, otherwise the seat can fold very fast.



Fig 7.1.2

Armrest Angle

- Adjust the screw positioned under the armpad to change angle of the armrest to the desired angle. (Fig 7.1.3)

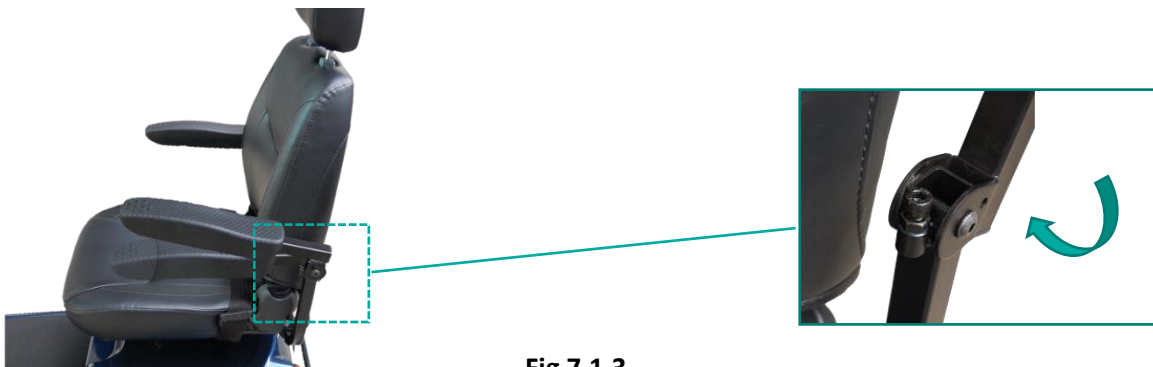


Fig 7.1.3

Moveable Armrest

- The armrest can be moved out of the way by lifting it up and down. (Fig 7.1.4)



Fig 7.1.4

Armrest Height

- The armrest position can be raised up and down. Loosen the arm rest star screw, adjust to the desired height, and then tighten the screw to fix the new position. (Fig 7.1.5)



Fig 7.1.5

Seat Slider

- Lift up the lever to disengage the seat slider, while holding the lever up at the same time push the seat forwards or back to the desired position and then release the lever to lock. (Fig 7.1.6)

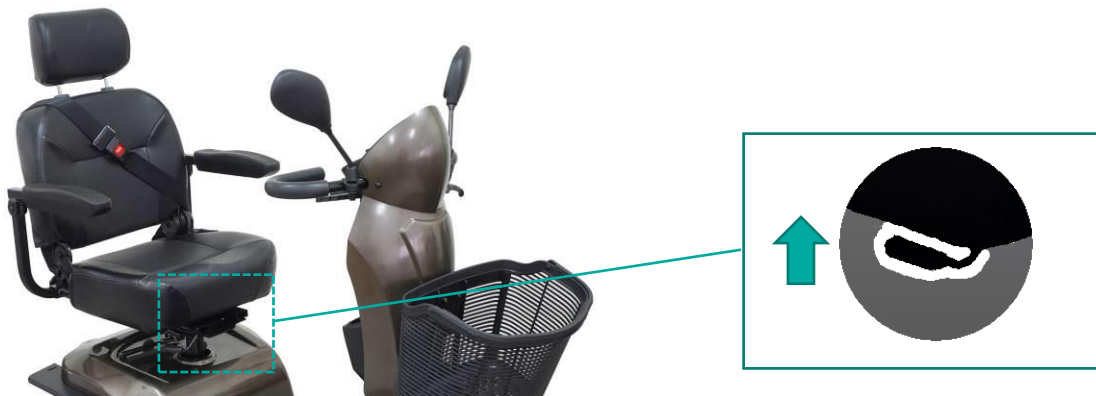


Fig 7.1.6

Seat Width Adjustment

- Loose the star bolt to adjust the width of the armrests to the desired position
- Tighten the bolt to fix them into new position. (Fig 7.1.7)

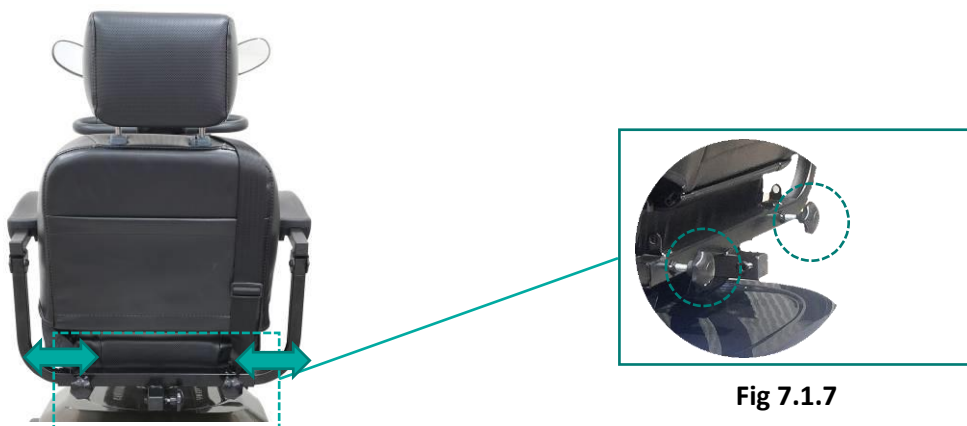


Fig 7.1.7

7.2 Seat Height Adjustment

The seat height is adjustable by adjusting the seatpost height.

- Fold the seat back down. (7.2.1)
- Then stand behind the scooter and with both hands lift the seat off the seat post (Fig 7.2.2).
- Remove the seat post bolt, then adjust seat post to the required height, then re-insert bolt and fully tighten.
- Refit the seat back onto the seat post.



Fig 7.2.1



Fig 7.2.2



CAUTION! Lifting weight beyond your physical capability may result in personal injury. Ask for assistance when necessary while disassembling or assembling your scooter.



CAUTION! The seat lever is sprung loaded, handle the seat slowly and carefully whilst putting it down into the folded position.

7.3 Tiller Adjustment

The Tiller Adjuster Lever is situated on the front of the Tiller below the delta handle.:

- Push the Tiller Adjuster Lever down to disengage the Lever (Fig 7.3.1).
- With the Tiller Adjuster Lever disengaged continue to hold and at the same time pull or push the tiller to the desired position (Fig 7.3.2.).
- Release the Tiller Adjuster Lever to lock the Tiller in position.



Fig 7.3.1



Fig 7.3.2



IMPORTANT! Never hang any article (including bags) from the Tiller Adjuster Lever, this could cause the tiller to suddenly fold, causing injury.



WARNING! The following can adversely affect steering and stability while operating your scooter:

- Holding onto or attaching a leash to walk your pet.
- Carrying passengers (including pets).
- Hanging any article from the tiller.
- Towing or being pushed by another motorized vehicle.



IMPORTANT! Always keep both hands on the tiller and your feet on the floorboard while operating your scooter. This driving position gives you the most control over your vehicle.

8.0 Operation – Operating Your Scooter

8.1 Starting the scooter

- Make sure you are seated safely and properly on your scooter.
- Turn the speed adjustment dial fully anti-clockwise to the slowest setting.
- Insert the key into the key switch. (Fig. 8.1.1)
- Turn the key clockwise to the “On” position. (Fig. 8.1.2)



Fig 8.1.1



OFF



Fig 8.1.2



ON

- Place your hands on the handgrips:
 - Pull on the left-hand grip to steer your scooter to the left.
 - Pull on the right-hand grip to steer your scooter to the right.
- Move the tiller to the centre position to drive straight ahead.
- Slowly engage the throttle control lever to gently accelerate your scooter forwards by either:
 - Use your left thumb to push the left side of the throttle control lever forward. (Fig 8.1.3)
 - Use your right-hand fingers to pull back on the right side of the throttle control lever. (Fig. 8.1.3)
- To stop, release the throttle control lever to allow your scooter to stop gradually. The electronic brakes will automatically engage when your scooter comes to a stop. The hand brake has also been provided for stopping the scooter when quicker stopping is required or in emergency situations.

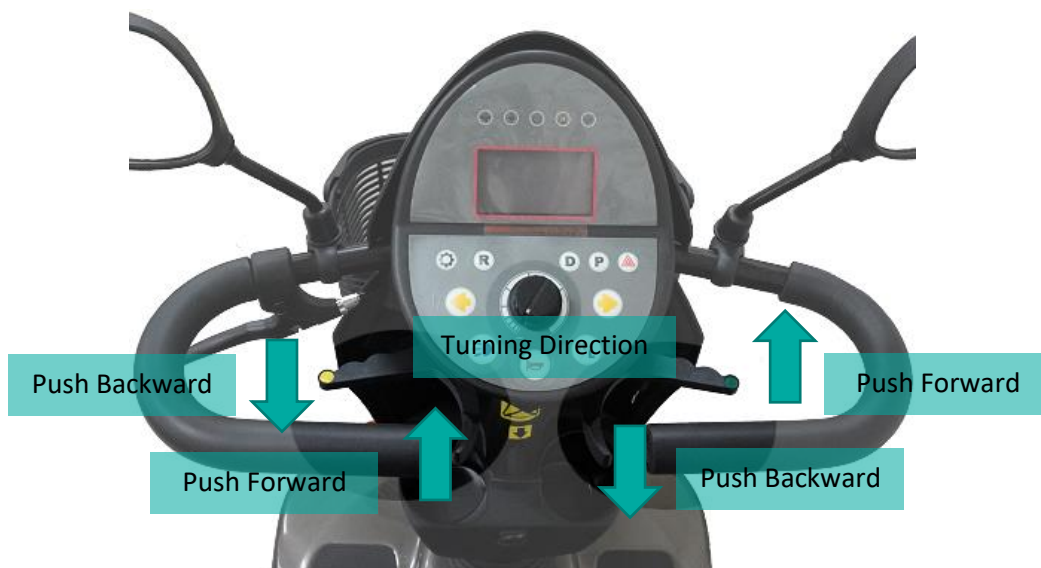


Fig 8.1.3

8.2 Steering

- Place both hands on the handgrips of the tiller, turn the tiller to the right to travel right – never turn at high speeds as this will result in loss of control.
- Turn the tiller to the left to turn left – never turn at high speeds as this will result in loss of control.
- Make sure to maintain sufficient clearance when turning your scooter so that the rear wheels will be clear of any obstacles.
- Show even greater caution when steering in reverse.



WARNING! Turning your scooter too sharply at high speed will cause loss of control and balance and will result in the scooter tipping over resulting in serious injury or death.

8.3 Driving on inclines, hills, slopes and ramps

- When driving your scooter, never descend or climb a gradient which is greater than recommended – see 3.0 Specifications. Failure to do so could result in serious injury or death.
- When driving up a ramp, curb or incline - lean forward to move the centre of gravity of the scooter forward for maximum stability and safety.
- Drive with extreme caution when attempting to drive up or down any incline, access ramp etc. Always drive at a slow speed.
- Always drive straight up or straight down an incline, ramp, slope etc.
- Never drive across (traverse) an incline, ramp etc, in any direction – Driving across an incline, ramp etc. could result in turning the scooter over resulting in serious injury or death.
- Try to keep your scooter moving when climbing or descending an incline. If you have to stop, restart and accelerate slowly and carefully.
- When driving on a steep road, please adjust the holes of the anti-tip rack to the next hole, to extend a longer distance. (Fig. 8.3.1) Never descend or climb a gradient which is greater than recommended – see 3.0 Specifications.



Fig 8.3.1



WARNING! Never descend or climb a gradient which is greater than the recommended maximum see 3.0 Specifications.



WARNING! Never drive across (traverse) an incline, ramp etc, in any direction.



WARNING! The anti-tip wheels are only effective on firm ground. They will sink into soft ground such as grass, snow or mud if the scooter rests on them. They will lose their effect and the scooter can tip over.



WARNING! While you are driving down a slope, if your scooter starts to move faster than you feel safe, release the throttle control lever slowly. It will allow your scooter to decelerate and slow down.

8.4 Curbs

- Always be cautious when descending a curb.
- Approach the curb so that both back wheels of your scooter go over the curb at the same time.
- Never go down curbs by traversing them. Doing this will cause the scooter to tip over resulting in serious injury or death.
- Drive down curbs slowly to avoid jarring bumps.

8.5 Grass and Gravel

- Your scooter performs well on short firm grass and hills, but you must follow the operational parameters presented in this manual. If you are unsure about any situation, avoid it.
- Avoid driving in long grass, this will result in grass wrapping around your scooter's axle and potential damage to the scooter.
- Avoid driving on loose gravel, this will result in loss of control of the scooter.



WARNING! The anti-tip wheels are only effective on firm ground. They will sink into soft ground such as grass, snow or mud if the scooter rests on them. They will lose their effect and the scooter can tip over.

8.6 USB

- Your scooter is provided with a USB socket for your convenience.
- Uncover the cover and press the power button to turn on the USB socket (Fig. 8.6.1)
- DO NOT FORGET to press the power button off to turn off the USB socket (Fig. 8.6.2) and replace the cover.
- The USB socket can be used for a charging cable with power voltage limited less than 5A/2A



USB Signal
light off

Fig 8.6.1



USB Signal
light on

Fig 8.6.2

8.7 Use of Seat Belt [If provided]

- The seatbelt [if provided] is there for your safety whilst driving.
- Adjust seatbelt of a comfortable length and buckle the belt tightly. (Fig. 8.7.1)
- Press the red 'PRESS' button to release it (Fig. 8.7.2)



Fig 8.7.1



Fig 8.7.2

8.8 Use of Handbrake

- The handbrake is provided for emergency situations only, and is situated to the right of the tiller
- To apply, grip the handbrake lever towards you (Fig. 8.8.1)
- To release and move the scooter, release the handbrake lever (Fig. 8.8.2)



Fig 8.8.1



Fig 8.8.2



WARNING! The handbrake is for emergency situations only. Do not use unless necessary, as it causes the scooter to stop very sharply, and can risk the user losing their balance.

9.0 Operation – Getting Off Your Scooter

1. Bring your scooter to a complete stop.
2. Remove the key from the key switch.
3. Disengage the seat rotation lever and rotate the seat until you are facing toward the side of your scooter.
4. Make certain that the seat is secured into position.
5. Carefully and safely get out of the seat and stand to the side of your scooter.
6. You can leave the seat facing to the side to facilitate boarding your scooter next time.



WARNING! Never attempt to get onto or off your scooter without first removing the key from the key switch. This will prevent the scooter from moving if accidental throttle control lever contact is made.

10.0 Operation – Batteries and Charging

10.1 Charger Socket

The Charger Socket is positioned on the inside of the tiller to prevent the need of having to bend down to charge the batteries— see ‘10.0 Batteries and Charging’ for further information on how to use.



WARNING! Chargers are selected precisely for particular applications and are especially matched to the type, size, and chemical formulation of specific batteries. For the safest and most efficient charging of your scooter’s batteries, we recommend use of the charger supplied as original equipment with your product only. Any charging method resulting in batteries being charged individually is especially prohibited.



WARNING! Do not attempt to disassemble the batteries from the scooter or refit the batteries.



WARNING! If your battery charger has not been tested and approved for outdoor use, then do not expose it to adverse or extreme weather conditions. If the battery charger is exposed to adverse or extreme weather conditions, then it must be allowed to adjust to the difference in environmental conditions before use indoors. Refer to the manual supplied with the battery charger for more information.

10.2 General Information & Instructions on Charging

Your Scooter requires 2 x lead acid batteries that are sealed and maintenance free. They are recharged by the supplied charging system.

- Fully charge your travel scooter's batteries for at least 10 to 12 hours prior to using it for the first time. New batteries will be at their full capacity after having run through approx. 10-20 charging cycles (break-in period). This break-in period is necessary to fully activate the battery for maximum performance and longevity.
- Keep the batteries fully charged to keep your scooter running smoothly. Charge the batteries daily after every discharge even after partly discharge. Depending on the level of discharge, it can take up to 12 hours until the batteries are fully charged again.
- If the battery indicator has reached the red LED range, charge the batteries for 16 hours minimum, ignoring the charge complete display!
- Even if the scooter is unused for long period of time, the batteries should have a 24-hour charge once a week to make sure that both batteries are fully charged.
- Do not cycle your batteries at a low state of charge without regularly recharging them fully.
- Do not charge your batteries under extreme temperatures. High temperatures above 30°C are not recommended for charging as well as low temperatures below 10°C.
- You cannot overcharge the batteries when using the charger supplied with your vehicle, or a charger that has been approved by One Rehab.
- Protect your charger from sources of heat such as heaters and direct sunlight. If the battery charger overheats, charging current will be reduced and the charging process delayed.

10.3 Charging Your Batteries

- Make sure you read and understand the battery charger user manual, if supplied, as well as the safety notes on the charger.
- Turn off the scooter power and remove the key.
- Slide away the battery charger socket cover (Fig 10.2.1).



Fig 10.3.1



Fig 10.3.2



- Put the charger plug into the outlet point. (Fig 10.3.2)
- Do not switch on the battery charger until all the plugs are in position.
- Then turn on the power. The green signal light on the scooter will flash. (Fig. 10.3.2)
- The LED light on the battery charger will show amber while charging.
- The LED light on the battery charger will show green when batteries are fully charged.
- Turn off the mains power to the charger before removing the charger plug from charging outlet. Always remember to cover the charging socket with the cover when not in use to prevent damage.



WARNING! Risk of explosion and electric shock if batteries are charged when incorrectly wired. Never attempt to disconnect or reconnect the batteries. If the batteries do not appear to be working correctly, contact your authorized provider.



WARNING! Risk of explosion and destruction of batteries if the wrong battery charger is used. Only ever use the battery charger supplied with your vehicle, or a charger that has been approved by One Rehab.



WARNING! Never attempt to open or disassemble the charger. If the battery charger does not appear to be working correctly, contact your authorized provider.



WARNING! Risk of electric shock and damage to the battery charger if it gets wet. Always protect the battery charger from water and always charge in a dry environment.



WARNING! Risk of short circuit and electric shock if the battery charger has been damaged. Never use the charger if it has been dropped or damaged.



WARNING! Risk of electric shock and damage to the batteries – Never attempt to recharge the batteries by attaching cables directly to the battery terminals.



WARNING! Risk of fire and electric shock if a damaged extension cable is used. Only ever use an extension cable if it is absolutely necessary. If you have to use an extension cable, make sure it is in good condition.



WARNING! Risk of injury if using the scooter during charging. Do not attempt to recharge the batteries and operate the scooter at the same time. Do not sit in the scooter while charging the batteries.



WARNING! Chargers are selected precisely for particular applications and are especially matched to the type, size, and chemical formulation of specific batteries. For the safest and most efficient charging of your scooter's batteries, we recommend use of the charger supplied as original equipment with your product only. Any charging method resulting in batteries being charged individually is especially prohibited.



WARNING! Never attempt to disassemble the batteries from the scooter or refit the batteries. Contact your authorized provider.



WARNING! If your battery charger has not been tested and approved for outdoor use, then do not expose it to adverse or extreme weather conditions. If the battery charger is exposed to adverse or extreme weather conditions, then it must be allowed to adjust to the difference in environmental conditions before use indoors. Refer to the manual supplied with the battery charger for more information.

11.0 Operation – Disassembly and Assembly

- When disassembling or assembling your scooter, always make sure you have sufficient room to move the parts around. You may need assistance to lift some of the scooter components.
- See 3.0 Specifications for scooter weights.
- No tools are required to disassemble or assemble your scooter. Always disassemble or assemble your scooter on a level, dry surface with sufficient space for you to work and move around your scooter. Keep in mind that the disassembled sections of the scooter take up more floor space than the assembled scooter.



CAUTION! Lifting weight beyond your physical capability may result in personal injury. Ask for assistance when necessary while disassembling or assembling your scooter.



WARNING! Remove the key for the key switch before you disassemble your scooter!

11.1 Removing the Seat

- Fold the seat back down (Fig 11.1.1).
- Then stand behind the scooter and with both hands lift the seat off the scooter (Fig 11.1.2)



Fig 11.1.1



Fig 11.1.2

11.2 Removing the Basket

- Stand in front of your scooter.
- Hold the basket with two hands and lift upwards (Fig 11.2.1).



Fig 11.2.1

11.3 Folding down the Tiller

- Pull the Tiller Adjuster Lever down to disengage the Lever.
- With the Tiller Adjuster Lever disengaged continue to hold and at the same time pull down the tiller to its storage position (Fig 11.3.1)
- Release the Tiller Adjuster Lever to lock the Tiller in position

11.4 Assembly

- Lift up the tiller to the approximate position for use, finer positioning can be made once seated.
- Replace the seat – make sure it is straight above the seat post when you replace the seat onto your scooter. If the seat is not straight on the seat post, you will not be able to lock the seat correctly.
- Replace the basket – stand in front of your scooter, with both hands hold the basket and place onto the basket bracket.

12.0 EMI / RFI

The rapid development of electronics, especially in the area of communications, has saturated our environment with electromagnetic (radio) waves that are emitted by television transmitters, cellular phones, citizen's band radios (CB's), amateur radios (ham radios), wireless computer left, microwave transmitters, paging transmitters etc. These electromagnetic (EM) waves are invisible and increase in strength the closer one gets to the source of transmission. When these energy waves act upon electrical devices and cause them to malfunction or to function in an erratic or uncontrolled manner, they are referred to as Electromagnetic Interference (EMI) or Radio Frequency Interference (RFI).

EMI / RFI and your scooter

All electrically powered vehicles, including scooters are susceptible to Electromagnetic Interference / Radio Frequency Interference (EMI / RFI). This interference could result in abnormal, unintended movement of your scooter.



WARNING! Unintended movement or brake release can cause an accident or injury.

The FDA has determined that each make, and model of scooter can resist EMI / RFI to a certain level. The higher the level of resistance, the greater the degree of protection from EMI / RFI – measured in volts per meter (V/m). The FDA has also determined that current technology is capable of providing 20 V/m of resistance to interference. This product has been tested and has passed an immunity level of 20 V/m.

EMI / RFI recommendations

- Do not turn on or use hand-held personal electronic communication devices such as cellular phones, walkie-talkies and CB radios while your scooter is turned on.
- Be aware of any nearby transmitters (radio, television, microwave, etc.) on your intended route and avoid operating your scooter close to any of those transmitters.
- Turn off the power if your scooter is going to be in a stationary position for any length of time.
- Be aware that adding accessories or components or modifying your scooter may make it more susceptible to EMI / RFI.



WARNING! Turn off your scooter as soon as it is safely possible if unintended or uncontrollable motion occurs or if unintended park brake release occurs.

13.0 Daily Checking

Check the following items before driving. If you find anything abnormal, contact your scooter dealer for a further inspection before using it.

| Item | Inspection Content |
|----------------------|--|
| Handle Bar | Is it tight? Can they be turned left or right smoothly? |
| Speed Dial | Can it be adjusted freely and function well? |
| Throttle Lever | Does the scooter move when the lever is engaged? Does the scooter stop when the lever is released completely? |
| Motor | Is there any abnormal noise from the motor? Does the electromagnetic brake work properly? |
| Battery Gauge | Does the gauge go green when switched "ON"? Is the remaining power enough for your trip? |
| Horn Button | Does the horn work? |
| Seat | Is the seat on properly? |
| Headlight/Rear Light | Do the lights work? |
| Rearview Mirror | Are they clean? Check and clean off any dirt or smudges with a damp cloth |



CAUTION! If you come across a problem, please contact your dealer for repair. Any unauthorized repair or modification will void the warranty.

13.1 Regular Checking Record

To make sure your scooter is in good condition, go to your scooter dealer regularly.

| Check Item | | 1mth | 6mth | 1yr | 1.5yr | 2yr | 2.5yr | 3yr |
|---------------------|---------------------------------|------|------|-----|-------|-----|-------|-----|
| Operation | Wigwag Lever (forward/back) | | | | | | | |
| | Function of button and knob | | | | | | | |
| | Plug/charging cable/connector | | | | | | | |
| Motor | Running status/sounds | | | | | | | |
| | Function of electromagnetic | | | | | | | |
| | Connection cable/plug/connector | | | | | | | |
| Transaxle | Electromagnetic lever | | | | | | | |
| | Oil leakage | | | | | | | |
| Battery | Electrode connector | | | | | | | |
| | Plug/connection cable/connector | | | | | | | |
| Charger | Function of charging | | | | | | | |
| | Plug/charging cable | | | | | | | |
| Seat | Function of adjustable parts | | | | | | | |
| | Tightness of seat post | | | | | | | |
| Tiller | Function of making turns | | | | | | | |
| | Angle adjustment | | | | | | | |
| Tyre | Tyre wear | | | | | | | |
| Rim | Screw/nut tightness | | | | | | | |
| Suspension | Any loose | | | | | | | |
| | Suspension wear | | | | | | | |
| Inspected by/Dealer | | | | | | | | |
| Inspection Date | | | | | | | | |

13.2 Tyres

The condition of the tyres depends on how you drive and use your scooter.

Inspecting Tyre Treads

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

Check tyre pressure regularly. See 3.0 Specifications for correct psi.

14.0 Maintenance



CAUTION! Always turn off your scooter prior to maintenance.

- **CLEANING:** Do not use water, oil or other chemical solutions to clean your scooter. Be sure NOT to spray the scooter with the water as this can damage the electronic components.
- **CLEANING:** Use a dry or moist cloth and mild, non-abrasive cleanser to clean the plastic and metal parts of your Travel Scooter. Avoid using products that may scratch the surface of your Travel Scooter. If necessary, clean your product with an approved disinfectant. Make sure the disinfectant is safe for use on your product before application.
- **REPAIR:** Please take the scooter to authorized dealers for repairs and adjustments. Improper adjustments could lead to accidents and scooter malfunction.
- **CHECK:** Regularly check all wiring connections. Regularly check all wiring insulation, including the charger power cord, for wear or damage. Have your authorized dealer repair or replace any damaged connector, connection, or insulation that you find before using your Scooter again.
- You should keep electrical connections away from sources of dampness, including direct exposure to water or bodily fluids and incontinence. Check electrical components frequently for signs of corrosion and replace as necessary.

15.0 Storage

If you plan not to use the vehicle for a long period of time:

- Ensure the power of the scooter is off
- Store indoors in a dry environment and avoid direct sunlight
- Charge the batteries at least every fortnight.

16.0 Basic Troubleshooting

This table is only a guide to aid you in getting your scooter operating, should you have any problems. If you are unable to get your scooter operating, please contact your Scooter Dealer.

| Symptom | Possible | Solution |
|--------------------------|---|---|
| Scooter does not move | <ol style="list-style-type: none"> 1. Key switch is not "ON". 2. Main circuit breaker tripped. 3. Brake release lever in 'Freewheel Mode'. 4. Charger connected to outlet. 5. Battery power low. 6. Scooter shuts down to conserve battery. 7. Controller error. | <ol style="list-style-type: none"> 1. Turn key switch to "ON". 2. Reset circuit breaker. 3. Place lever in 'Drive Mode'. 4. Disconnect charger. 5. Recharge battery. 6. Turn key switch "OFF", then "ON" & recharge batteries as soon as possible. 7. Check Power light for Flash Code (See 16.0 Flash Codes to get a solution). |
| Range less than expected | <ol style="list-style-type: none"> 1. Charging too infrequently. 2. Defective or worn out battery. 3. Cold weather reduces battery life. 4. Defective charger. | <ol style="list-style-type: none"> 1. Charge scooter more often. 2. Load test batteries. If necessary, replace. 3. Allow batteries to reach room temperature and then fully recharge. 4. Contact your Scooter Dealer. |

17.0 Flash Codes

Scooter controller internal diagnostics

The diagnostic flash codes for your scooter are designed to help you perform basic troubleshooting quickly and easily. A diagnostic flash code flashes from the Power light in the event one of the conditions listed below develops.

Count the flashes of the Power Signal and go to the relevant flash code. For example one flash code would look

like: 

| Flash Code | Fault | Solution |
|------------|---|--|
| 1 | Battery charge is too low. | The batteries need to be charged or there is a bad connection to the battery. First make sure the battery is charge. If the fault continues then check all the connections on the battery. |
| 2 | Motor voltage error. | The motor or its wiring is faulty – Check all connections between the motor and the controller. Contact your authorized dealer for assistance. |
| 3 | Motor short circuit | The motor has a short circuit to the battery connection. Contact your authorized dealer for assistance. |
| 4 | Freewheel switch is activated | Switch the freewheel switch back into Drive mode ‘D’ |
| 5 | Not used | |
| 6 | Controller is being inhibited from driving. | Check that the battery charger is not connected. If charger is connected removed from charger socket. |
| 7 | Throttle Pot error. | Make sure the throttle controller lever is in the central position, turn the power off and then on again. The Throttle Pot could be faulty or incorrectly connected. Contact your authorized dealer for assistance. |
| 8 | Controller Fault | A Controller fault is indicated. Make sure all connections are secure including battery connections. Contact your authorized dealer for assistance. |
| 9 | Brake error. | Ensure the manual freewheel lever is in the drive position and restart the scooter. Or the electromagnetic brake has a bad connection or is faulty. Check the brake and motor connections. Make sure the controller connections are secure. |
| 10 | Excessive voltage | This is usually caused by a poor battery connection. Check the battery connections. |

18.0 Warranty

LIMITED WARRANTY. IMPORTANT NOTICE – TO ENSURE THIS WARRANTY IS VALIDATED IT HAS TO BE COMPLETED AND RETURNED TO ONE REHAB WITHIN 14 DAYS OF PURCHASE

17.1 One-Year Limited Warranty

For one (1) year from the date of delivery, we will replace at our discretion to the original purchaser, free of charge, any structural frame component, part or electronic component found upon examination by an authorized representative of One Rehab to be faulty.

1. Main Frame
2. Fork
3. Seat Post
4. Tiller Frame
5. Electronic controllers
6. Transaxle
7. Motor & Brake: (electronic function ONLY).
8. Charger
9. Any other electrical subassembly

NOTE: If there is an increase in the noise level from the transaxle, the warranty does not apply. An increase in operational noise level usually occurs due to excessive strain on the scooter.

17.2 Batteries

Batteries are covered by a six (6) month warranty from the original manufacture and a further six (6) month warranty at the discretion of One Rehab.

Note: Gradual deterioration in performance due to batteries being left in a discharged state, left in cold conditions for long periods of time or worn out through heavy use is not covered.

17.3 Warranty Exclusions

1. ABS plastic shrouds and footrest covers (wear items are not warranted).
2. Tyres and Anti-tip Wheels (wear items are not warranted).
3. Upholstery and seating (wear items are not warranted).
4. Motor Brushes.
5. Brake Pads (wear items are not warranted).
6. Fuses.
7. Repairs and/or modifications made to any part of the scooter without specific and prior consent from **One Rehab**.
8. Circumstances beyond the control of **One Rehab**.

Exclusions also include components with damage caused by:

1. Contamination (rain, etc).
2. Abuse, misuse, accident, or negligence.
3. Commercial use, or use other than normal.
4. Improper operation, maintenance, or storage.

NOTE: Gradual deterioration in performance because the battery has been left in a discharged state, left in cold conditions for an extended period of time, or worn out through heavy use is not covered by the warranty.

17.4 Service Checks and Warranty Checks

This warranty is extended only to the original purchaser. Your original receipt will be necessary as proof of purchase before any warranty performances are rendered.

This warranty only covers failures due to defects in materials or workmanship which occur during normal use and does not cover damage that occurs in shipment or failures which are caused by products not supplied by **One Rehab** or failures resulting from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, commercial use or by anyone other than an authorized dealer, or damage that is attributable to the acts of God.

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.

Important

This warranty is void if the original scooter serial number tag is removed or altered. To validate the warranty this form must be filled online (where applicable) or posted to One Rehab (Unit 1, Fernwood Estate, Shillinglee Road, Chiddingfold, GU8 4SX within 14 days of purchasing the scooter.

17.5 Notices to the Consumer

There are no other express warranties. To the extent permitted by law, any implied warranty (including a warranty of merchantability or fitness for a particular purpose) is limited to:

1. One (1) year from the day of original delivery
2. Repair or replacement of the defective part only.

Manufacture: One Rehab Ltd

Discovery 8 User Manual

