



**eDrive**

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PRODUCT CODES:  
**ED0001**

User Manual

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# 1. SAFETY GUIDELINES

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

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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 if it is not avoided.



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

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**WARNING!** Do not drive at night or in rain, snow, fog or strong winds.

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# 1. SAFETY GUIDELINES

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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.

## 2. PRE-RIDE SAFETY CHECK

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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 Travel Scooter:**

- Check the condition of the tyres. Make sure they are not damaged or excessively worn.
- Check all electrical connections. Make sure they are tight and not corroded.
- 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 free wheel lever is in drive mode before sitting on the Travel 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 switch. This will prevent the scooter from moving if accidental throttle control lever contact is made.

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### 3. SPECIFICATION

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LENGTH	102cm / 40"
WIDTH	56cm / 22"
HEIGHT	85cm / 33"
FOLDED LENGTH	76cm / 30"
FOLDED WIDTH	56cm / 22"
FOLDED HEIGHT	50cm / 20"
SEAT WIDTH	43cm / 17"
SEAT DEPTH	32cm / 12.5"
FRONT WHEEL	Solid 19cm / 7.5"
REAR WHEEL	Solid 19cm / 7.5"
TOTAL WEIGHT	66lbs / 30kg
HEAVIEST PART	62.25lbs / 28.3kg
BATTERY WEIGHT	3.75lbs / 1.7kg
MAX USER WEIGHT	21stone / 133kg
RANGE	9miles / 15km
SPEED	4mph / 6kph
BATTERY	24v 10ah Lithium
MOTOR	24v 120w
GROUND CLEARANCE	7.5cm / 3"
MAX GRADIENT	10°
TURNING RADIUS	150cm / 59"
BOX DEPTH	58cm / 23"
BOX WIDTH	56cm / 22"
BOX HEIGHT	80cm / 32"

**Remark:** Motion Healthcare 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. COMPONENTS OF THE SCOOTER

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- |                     |                           |                      |
|---------------------|---------------------------|----------------------|
| 1. Seat             | 4. Rear Wheel             | 7. Battery Box       |
| 2. Seat Arm Pad     | 5. Control Panel          | 8. Manual Fold Lever |
| 3. Free wheel Lever | 6. Tiller Height Adjuster | 9. Front Wheel       |

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

## 5. CONTROL PANEL

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10. Throttle Lever Forward/  
Back

11. Key Switch

12. Charger Socket – Tiller

13. Battery Indicator/Gauge

14. Speed Adjustment Dial

15. Horn Button

## 5. CONTROL PANEL

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### 5.1 Throttle Control Lever – Forward/Back: (10)

This lever allows you to control the forward speed and the reverse speed of your scooter up to the maximum speed you pre-set with the speed adjustment dial.

Place your right hand on the right hand tiller handle and your left hand on the left hand tiller handle.

- **To move forward**, use your right hand fingers to pull back on the right side of the throttle control lever.
- **To move backward**, use your left hand fingers to pull back on the left side of the throttle control lever.

Release the lever and allow your scooter to come to a complete stop before pulling the other side of the lever to move in reverse. When the scooter is moving in reverse, the reverse beeper will sound.

When the throttle is completely released, it automatically returns to the centre “stop” position and engages your scooter’s brakes.

### 5.2 Key Switch: (11)

This turns the power on and off your scooter.

- Insert the key into the key switch.
- Turn the key clockwise to turn on your scooters power. The battery indicator will light up to indicate that the power is on.
- Turn the key anti-clockwise to turn off your scooter’s power. The battery indicator light will turn off to indicate the power is off.

### 5.3 Charger Socket – Tiller: (12)

The Tiller Charger Socket allow the batteries to be charged without having to bend down and charge from the battery box charging socket – see ‘10.0 Batteries and Charging’ for further information.

## 5. CONTROL PANEL

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**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 battery from the battery pack or refit the battery.



**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.

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### 5.4 Battery Indicator/Gauge: (13)

Indicates the voltage of the batteries:

- Green – batteries are fully charged.
- Yellow – batteries are half full.
- Red – batteries need charging.
- Beeping sound continuing – batteries are out of charge. Please re charge batteries.

### 5.5 Speed Adjustment Dial: (14)

This dial allows you to preselect and limit your Scooter's top speed in the range of 0mph – 4mph:

- The image of the tortoise represents the slowest speed setting.
- The image of the hare represents the fastest speed setting.

### 5.6 Horn Button: (15)

This button activates a warning horn. Your scooter must be turned on for the horn to be operational. Do not hesitate to use the warning horn when doing so may prevent an accident or injury.

## 6. OPERATION – FOLDING AND UNFOLDING

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- The scooter electrically folds and unfolds quickly and easily.
- When folding and unfolding your scooter, always make sure you have sufficient room to do so.
- You may need assistance to lift the scooter if required.
- See “Specifications” for component weights.
- No tools are required to fold and unfold your scooter.



**WARNING!** Never sit on the scooter until you have completely unfolded the scooter.

Before folding or unfolding the scooter make sure that your fingers are well clear of any moving parts and that other people or pets are well clear of the scooter.



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

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## 6. OPERATION – FOLDING AND UNFOLDING

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### 6.1 REMOTE CONTROL AND ROCKER SWITCH

The scooter can be electrically folded and unfolded by either the key-fob remote control (fig 6.1.1) or rocker switch positioned on the rear of the scooter (fig 6.1.2).



Key Fob Remote Control Fig 6.1.1



Rocker Switch Fig 6.1.2

### 6.2 REMOTE CONTROL AND ROCKER SWITCH

1. **To fold the scooter** from the unfolded position press the fold button to fold (See Fig 6.2.1)
2. The scooter will automatically fold. Continue pressing the button until the scooter has finished folding.
3. **To unfold the scooter** from the folded position press the unfold button to unfold the scooter (see Fig 6.2.1).
4. The scooter will automatically unfold. Continue pressing the button until the scooter has finished unfolding and the fold motors have completely stopped. Note;make sure the two hooks under the seat have fully locked into place (see fig 6.2.2) before sitting on the scooter. If they are not fully locked into place (see fig 6.2.3) then continue to hold down the unfold button until the scooter has completely unfolded and two hooks are locked into place (see fig 6.2.2).



**WARNING!** Never sit on the scooter until you have completely unfolded the scooter.

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# 6. OPERATION – FOLDING AND UNFOLDING

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## 6.2 REMOTE CONTROL AND ROCKER SWITCH

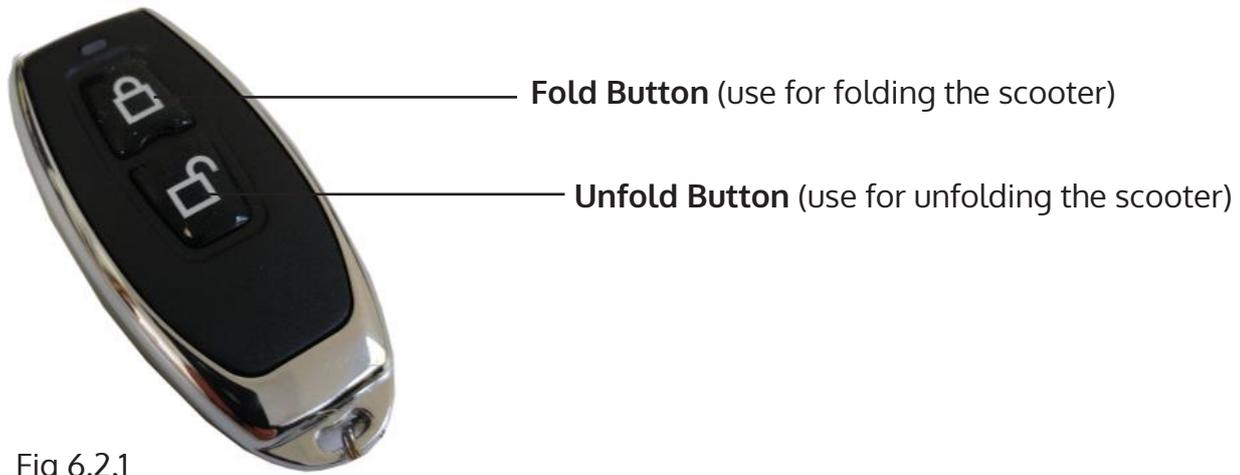


Fig 6.2.2

Scooter is fully unfolded and ready to drive with hooks fully locked into place.



Fig 6.2.3

Scooter is not completely unfolded. Continue to push 'Unfold' button to fully unfold.

## 6. OPERATION – FOLDING AND UNFOLDING

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### 6.3 FOLDING AND UNFOLDING WITH ROCKER SWITCH

The rocker switch can be used to fold and unfold the scooter as an alternative to the remote control fob.

1. **To fold the scooter** from the unfolded position press the arrow pointing towards the front of the scooter to fold (See Fig 6.3.1)
2. The scooter will automatically fold. Continue pressing the button until the scooter has finished folding.
3. **To unfold the scooter** from the folded position press the arrow pointing towards the back of the scooter to unfold the scooter (see Fig 6.3.2)
4. The scooter will automatically unfold. Continue pressing the switch until the scooter has finished unfolding. Note; make sure the two hooks under the seat have fully locked into place (see fig 6.2.2) before sitting on the scooter. If they are not fully locked into place (see fig 6.2.3) then continue to press the switch until the scooter has completely unfolded and two hooks are locked into place (see fig 6.2.2).



Fig 6.3.1



Fig 6.3.2



**WARNING!** Before folding or unfolding the scooter make sure that your fingers are well clear of any moving parts and that other people or pets are well clear of the scooter.

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Unfolded Scooter



Semi Folded



Folded

## 6. OPERATION – FOLDING AND UNFOLDING

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### 6.4 MANUAL FOLDING & UNFOLDING

The scooter can be manually folded and unfolded if required for emergencies. To manually fold and unfold the scooter see as follows:

1. **To fold the scooter manually** from the unfolded position firstly release the two hooks under the seat by unwinding anti clockwise the plastic knob positioned at the rear of the seat (see Fig 6.4.1) and continue winding until the hooks are fully clear (see Fig 6.4.2).
2. Pull the manual fold handle (see Fig 6.4.3) upwards to the manual fold open position (see Fig 6.4.4). The scooter is now ready to fold.
3. Fold the scooter by holding the central pivot pin (see Fig 6.4.5) and lift upwards to fold the scooter.
4. Push back the manual fold handle to the closed position (see Fig 6.4.3) to lock the scooter in the folded position. Note; the scooter can be unfolded by the remote control from this position.
5. **To unfold the scooter manually** from the folded position make sure the manual release lever is in the open release position (Fig 6.4.4).
6. Hold the central pivot pin (see Fig 6.4.5) and slower lower and unfold the scooter.
7. Once the scooter is unfolded, push back the manual fold handle to the closed position (see Fig 6.4.3).
8. Turn the plastic knob position on the rear of the seat (see Fig 6.4.1) clockwise to lock the seat hooks into position (see Fig 6.4.6).



**WARNING!** Before folding or unfolding the scooter make sure that your fingers are well clear of any moving parts and that other people or pets are well clear of the scooter.

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Fig 6.4.1



Fig 6.4.2

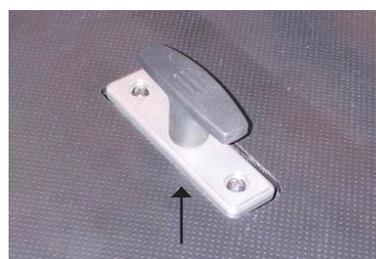


Fig 6.4.3



Fig 6.4.4



Fig 6.4.5



Fig 6.4.6

# 7. OPERATION – BEFORE GETTING ONTO YOUR SCOOTER

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## 7.1 TILLER HEIGHT ADJUSTMENT

The tiller height can be quickly adjusted as follows;

1. In the lowered position –pull back the tiller lock clip (see Fig 7.1.1) and with both hands hold the tiller handles and lift to the desired height.
2. Push back the tiller lock clip (see Fig 7.1.2) to secure tiller at the desired height.
3. In the raised position, pull back the tiller lock clip (see Fig 7.1.1) and with both hands on the tiller handles push back down to the desired height.
4. Push back the tiller lock clip (see Fig 7.1.2) to secure tiller at the desired height.

**Note;** the tiller height can be adjusted both when the scooter is folded and unfolded.



7.1.1



7.1.2



**WARNING!** Never drive your scooter with the tiller clip unlocked.

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# 7. OPERATION – BEFORE GETTING ONTO YOUR SCOOTER

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## 7.2 FITTING THE BATTERY BOX

The removable battery box is fitted and removed as follows:

1. To fit the battery box make sure the box is position with the charger socket at the front. Lower the box into the compartment at the rear of the scooter (see Fig 7.2.1).
2. Push the box forward and down to its flush position (see Fig 7.2.2). The box is now installed.
3. To remove the box push forwards and lift up which will release the box from the compartment.



7.2.1



7.2.2

# 7. OPERATION – BEFORE GETTING ONTO YOUR SCOOTER

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## 7.3 FREE WHEEL LEVER

The Free wheel 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 'Closed' - pull the lever backwards for this position. (Fig 7.3.1)

**2. Free wheel position** - is indicated by 'Open' – push the lever forwards for this position. (Fig 7.3.2)



Fig 7.3.1 Drive Mode(Closed)



Fig 7.3.2 Free wheel Mode (Open)



**WARNING!** Before placing your scooter into or taking it out of free wheel mode, remove the key from the key switch. Never sit on the scooter when it is in free wheel mode. Never put your scooter in free wheel mode on any incline.

**WARNING!** When your scooter is in free wheel 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 free wheel 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.

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# 7. OPERATION – BEFORE GETTING ONTO YOUR SCOOTER

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## 7.4 ADJUSTING THE ANTI-TIP WHEEL POSITION

The anti-tip wheels position at the rear of the scooter have two positions as follows:

**1. Storage Position**—if required to save space the anti-tip wheel can be pushed forwards to this position. To do this, push in the clip and push the anti-tip wheel forwards until the clip is released into the second position (see Fig 7.4.1).

**Note;** never drive the scooter with the anti-tip wheels in this position.

**2. Drive Position** –when driving the scooter you must always make sure the anti-tip wheels are both in this position. To put the anti-tips wheels into this position from the storage position, release the clip by pushing in and pull out the anti-tip wheel until the clip is released into the second position (see Fig 7.4.2).



Fig 7.4.1 (Storage Position)



Fig 7.4.2 (Drive Position)



**WARNING!** Never drive the scooter with the anti-tip wheels in 'storage position' as this position dramatically reduces the effectiveness of the anti-tip wheel which could result in the scooter tipping over.

**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.

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## 7. OPERATION – BEFORE GETTING ONTO YOUR SCOOTER

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### 7.5 ADJUSTING THE ARM PAD HEIGHT

The arm pads can be quickly adjusted by adjusting the screw length under the arm pad (see Fig 7.5.1)

To lower the arm pad turn the screw clockwise.

To raise the arm pad turn the screw anti clockwise.



Fig 7.5.1

## 8. OPERATING YOUR SCOOTER

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



WARNING! Never attempt to get on to or off of 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 free wheel 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.

WARNING! Never leave your scooter unattended with the key or remote control in the key switch. Always remove the key and remote control if you are leaving your scooter unattended.

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### 8.1 GETTING ONTO YOUR SCOOTER

1. Make certain that the key is removed from the key switch.
2. Stand at the side of your scooter.
3. Make certain that the seat is secured into position.
4. Position yourself comfortably and securely in the seat.
5. Make certain that your feet are safely on the floorboard.



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! Keep both hands on the tiller and your feet on the floorboard at all times while operating your scooter. This driving position gives you the most control over your vehicle.

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## 8. OPERATING YOUR SCOOTER

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### 8.2 STARTING

- 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.
- Turn the key clockwise to the "On" position.
- Place your hands on the hand grips:
  - » 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 using your right hand fingers to pull back on the right side of the throttle control lever.
- 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.

### 8.3 STEERING

- Place both hands on the hand grips 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.

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## 8. OPERATING YOUR SCOOTER

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### 8.4 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.



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.

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## 8. OPERATING YOUR SCOOTER

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### 8.5 DROP CURBS

- Always be cautious when descending a drop 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.

### 8.6 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.

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## 9. GETTING OFF YOUR SCOOTER

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1. Bring your scooter to a complete stop.
2. Remove the key from the key switch.
3. Carefully and safely get out of the seat and stand to the side of your scooter.



**WARNING!** Never attempt to get onto or off of 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.

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# 10. BATTERIES AND CHARGING

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## 10.1 GENERAL INFORMATION & INSTRUCTIONS ON CHARGING

Your Scooter requires 1 x lithium battery that is sealed and maintenance free. The battery is recharged by the supplied off-board charging system.

- Fully charge your travel scooter's battery for at least 10 to 12 hours prior to using it for the first time. The new battery will be at its 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 battery fully charged to keep your scooter running smoothly. Charge the battery daily after every discharge even after partly discharge. Depending on the level of discharge, it can take up to 12 hours until the battery is fully charged again.
- If the battery indicator has reached the red LED range, charge the battery for 16 hours minimum, ignoring the charge complete display!
- Even if the scooter is unused for long period of time, the battery should have a 24 hour charge once a week to make sure that it is fully charged.
- Do not cycle your battery at a low state of charge without regularly recharging it fully.
- Do not charge your battery 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 battery when using the charger supplied with your vehicle, or a charger that has been approved by Motion Healthcare.
- 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.

## 10.2 CHARGING YOUR BATTERIES - WARNINGS

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**WARNING!** Risk of explosion and electric shock if batteries are charged when incorrectly wired. Never attempt to open or disassemble the battery box. 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 Motion Healthcare. Never charge 10 Ah batteries with a 5 Ah battery charger. Always use a 2 Ah battery charger.

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# 10. BATTERIES AND CHARGING

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## 10.2 CHARGING YOUR BATTERIES - WARNINGS CONT.

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WARNING! Do not use or store the battery near sources of heat such as a fire or heater.

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

WARNING! Do not use the battery if it gives off an odour, generates heat or appears abnormal in any way. If the battery is in use or being recharged, remove it from the device or charger immediately and discontinue use.

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 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.

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# 10. BATTERIES AND CHARGING

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## 10.2 CHARGING YOUR BATTERIES - WARNINGS CONT.

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WARNING! Never attempt to disassemble the battery from the battery box or refit the battery. 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.

WARNING! Never use or store the battery where it is exposed to high temperatures. Leaving the battery in a car on a hot day or in an area of direct sunlight such as a window will reduce battery performance and shorten service life.

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# 10. BATTERIES AND CHARGING

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## 10.3 HOW TO CHARGE YOUR BATTERIES

- Make sure you read and understand the battery chargers user manual, if supplied, as well as the safety notes on the charger.
- Turn off the scooter power and remove the key
- Decide on which charging socket to use - You have a choice of two charging sockets:
  - » Battery Box Socket (allows you to charge batteries 'off board' e.g. in your house) (Fig 10.2.1)
  - » Tiller Charging Socket (saves you having to bend down to plug in charger) (Fig 10.2.2)
- Slide away the cover of the charger outlet point either positioned on the front of the battery box (Fig 10.2.1) or the Tiller Charging Socket (Fig 10.2.2).



Fig 10.2.1



Fig 10.2.2

- Put the charger plug into the outlet point
- Do not switch on the battery charger until all the plugs are in position
- 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

## 11. EMI / RFI

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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

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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.

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## 12. DAILY CHECKING

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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?
Throttle Lever	Does the scooter move when the lever is engaged? Does the scooter stop when the lever is released completely?
Motor	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 move to green when switched "ON"? Is the remaining power enough for your trip?
Horn Button	Does the horn work?

### 12.1 REGULAR CHECKING RECORD

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

### 12.2 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 0.5mm.

## 13. MAINTENANCE

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1. 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. Please clean the scooter by wiping it with either a dry or moist cloth.
2. Please take the scooter to authorized dealers for repairs and adjustments. Improper adjustments could lead to accidents and scooter malfunction.

## 14. BASIC TROUBLESHOOTING

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

## 15. FLASH CODES

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### 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.

FLASH CODE	FAULT	CONSEQUENCE FOR THE SCOOTER	SOLUTION
1	Battery charge is too low.	Scooter continues to drive.	<ul style="list-style-type: none"><li>• Charge batteries.</li></ul>
2	Battery charge is depleted.	Scooter stops driving.	<ul style="list-style-type: none"><li>• Charge batteries.</li></ul>
3	Battery voltage is too high.	Scooter stops driving.	<ul style="list-style-type: none"><li>• If the charger is connected, disconnect it from the scooter.</li><li>•</li><li>• The electronic system charges the batteries when running downhill and when braking. This fault is caused when the battery voltage becomes too high during this process. Switch the scooter off and on again and if traveling downhill reduce speed to the minimum setting.</li></ul>
4	Power time exceeded.	Scooter stops driving.	<ul style="list-style-type: none"><li>• The maximum current has been exceeded over too long a period, probably because the motor has been overloaded. Switch the scooter off for a few minutes, then turn back on again.</li></ul>

## 15. FLASH CODES

FLASH CODE	FAULT	CONSEQUENCE FOR THE SCOOTER	SOLUTION
5	Brake error.	Scooter stops driving.	<ul style="list-style-type: none"> <li>• Ensure the manual free wheel lever is in the drive position and re-start the scooter.</li> <li>• There is a fault with the magnetic brake or wiring – contact your authorized dealer of assistance.</li> </ul>
6	Throttle control lever not at centre position when switching on scooter.	Scooter stops driving.	<ul style="list-style-type: none"> <li>• Put the throttle control lever in the central position, turn the power off and then turn on again.</li> <li>• It may be necessary to replace the throttle control lever - Contact your authorized dealer for assistance.</li> </ul>
7	Speed Pot or Throttle Pot error.	Scooter stops driving.	<ul style="list-style-type: none"> <li>• The Speed or Throttle Pot could be faulty or incorrectly connected - Contact your authorized dealer for assistance.</li> </ul>
8	Motor voltage error.	Scooter stops driving.	<ul style="list-style-type: none"> <li>• The motor or its wiring is faulty - Contact your authorized dealer for assistance.</li> </ul>
9	Other internal errors.	Scooter stops driving.	<ul style="list-style-type: none"> <li>• Contact your authorized dealer for assistance.</li> </ul>

## 16. WARRANTY

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### WARRANTY POLICY:

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

#### 16.1 TWO-YEAR LIMITED WARRANTY

Two years on all structural frame components; fork, seat post, and frame.  
Structural Frame Components, including

1. Main Frame
2. Fork
3. Seat Post
4. Tiller Frame

#### 16.2 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 part or electronic component found upon examination by an authorized representative of Motion Healthcare to be faulty.

1. Electronic controllers
2. Trans axle
3. Motor & Brake: (electronic function ONLY).
4. Charger
5. Any other electrical sub assembly

**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.

# 16. WARRANTY

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## 16.3 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 Motion Healthcare.

**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.

## 16.4 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 Motion Healthcare.
8. Circumstances beyond the control of Motion Healthcare.
9. Exclusions also include components with damage caused by:
  - Contamination (rain, etc).
  - Abuse, misuse, accident, or negligence.
  - Commercial use, or use other than normal.
  - 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.

## 16.0 WARRANTY

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### 16.5 SERVICE CHECKS AND WARRANTY SERVICE

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 Motion Healthcare 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 Motion Healthcare (Hubert Rd, Brentwood CM14 4JE) within 14 days of purchasing the scooter.

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### 16.6 NOTICES TO 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.

#### UK AUTHORISED DEALER

Motion Healthcare Ltd.  
Hubert Road  
Brentwood  
Essex  
CM14 4JE

Tel: 0844 257 815

[www.motionhealthcare.co.uk](http://www.motionhealthcare.co.uk)

# NOTES

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