eclipse™
medical inc.

Bigfoot

S846

Owner's Manual

Discovering your world again—in style

Table of Contents

Contents

Introduction 3
EMI Warning 4
Safety Guidelines 5
Safety Summery 9
Features 10
Free Wheel Mode 16
Operating Your Scooter 17
Batteries and Charging 20
Care and Maintenance 23
Trouble Shooting 25
Warranty 26
Specifications 27
Accessories 28

Introduction

Congratulations on the purchase of your Eclipse scooter. Please carefully read this owner's manual before attempting to use your scooter. After reading the manual if you still have any questions or concerns please feel free to contact your local authorized dealer.

Before reading the rest of the manual please register your product online at www.eclipsemedical.com.

You must keep your receipt as proof of purchase for the warranty to be valid: you will need to present the receipt when you service or repair your product under warranty.

Please fill in the information below for your records.

Model: _____

Serial # _____

Date Purchased: _____

Dealer Name: _____

Dealer Telephone #: _____

EMI Warning

Electromagnetic interference
This vehicle has an immunity level of 20 *Vim* which should protect it from Electromagnetic Interference (EMI) from Radio Wave Sources. The rapid development of electronics, especially in the area of communications, has saturated our environment with electromagnetic (radio) waves that are emitted by television, radio and communication signals. These EM waves are invisible, and their strength increases as one approach the source. All electrical conductors act as antennas to the EM signals and, to varying degrees, all power wheelchairs and scooters are susceptible to electromagnetic interference (EMI). This interference could result in abnormal, unintentional, movement and/or erratic control of the vehicle. The United Statement is incorporated to the user's manual for all electric scooters.

Powered wheelchairs and electric scooters (in this text, both will be referred to as powered wheelchairs) may be susceptible to electromagnetic interference (EMI), which is interfering electromagnetic energy emitted from sources such as radio stations, TV stations, amateur radio (HAM) transmitters, two-way radios and cellular phones. The interference (from radio wave sources) can cause the powered wheelchair to release its brakes, move by itself or move in unintended directions. It can also permanently damage the powered wheelchair's control system. The intensity of the EM energy can be measured in volts per meter *(V/m).* Each powered wheelchair can resist EMI up to certain intensity. This is called the "immunity level." The higher the immunity level the greater the protection. At this time, current technology is capable of providing at least 20 *V/m* of immunity level which would provide useful protection against common sources of radiated EMI.

Following the warnings listed below should reduce the chance of unintended brake release or powered wheelchair movement that could result in serious injury:

- Do not turn on hand-held personal communication devices such as citizens band (CB) radios and cellular phones while the powered wheelchair is turned on.
- Be aware of nearby transmitters such as radio or TV stations and try to avoid coming close to them.
- If unintended movement or brake release occurs, turn the powered wheelchair off as soon as it is safe.
- Be aware that adding accessories or components, or modifying the powered wheelchair, may make it more susceptible to interference from radio wave sources. (Note: there is no easy way to evaluate their effect on the overall immunity of the powered wheelchair).

  The FDA has written to the manufacturers of power wheelchairs, asking them to test their new products to be sure they provide a reasonable degree of immunity against EMI. The letter says that powered wheelchair should have an immunity level of at least 20 V/m, which provide a reasonable degree of protection against the more common sources of EMI. Higher the level, the greater the protection.
- Report all incidents of unintended movement or brake release to the powered wheelchair manufacturer and note whether there is a radio wave source nearby.

WARNING
The scooter might disturb the operation of devices in its environment that emit electromagnetic fields (e.g. alarm systems of shops, automatic doors etc.)

Safety Guidelines

Read and follow all instructions, warnings, and notes in this manual before operating the scooter for the first time. In addition, your safety depends upon you, as well as your provider, caretaker, or healthcare professional in using good judgement.

If there is any information in this manual which you don't understand, or if you require additional assistance for setup or operation, please contact your local Eclipse Medical dealer. Failure to follow the instructions, warnings, and notes in this manual and those located on your product can result in personal injury or product damage and will void your product warranty.

Modifications

WARNING

Do not modify your scooter or change the programmed parameters of your scooter controller in any way. Modifications may result in personal injury and damage to the scooter.

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.

Find an open area such as a park and have an assistant to help you practice until you have confidence operating the scooter.

- Check for proper tire inflation.
- Make sure all electrical connections are tight and not corroded.
- Check the brakes.
- Check the battery charge.

Tire inflation

Your scooter is equipped with pneumatic tires, you should have the air pressure checked at least once a week. Proper inflation pressures will prolong the life of your tires and help ensure the smooth operation of your scooter.

WARNING

Do not underinflate or overinflate your tires. Low pressure may result in loss of control and overinflate may burst. It is very important that correct tire pressure be maintained in pneumatic tires at all times.

Weight limitations

Stay within the specified weight capacity for your scooter. Exceeding the weight capacity voids your warranty. We will not be held responsible for injuries or property damage resulting from failure to observe weight limitations.

WARNING

Do not carry passengers on your scooter or exceed the maximum weight capacity. Carrying passengers on your scooter may affect the center of gravity, resulting in a tip or a fall.

Incline information

Most buildings have ramps with specified degree of inclination, designed for easy and safe access. Pay attention when driving down an incline and keep the scooter's speed adjustment set to the slowest speed setting to ensure a safe controlled descent. Avoid sudden stops and starts on the ramps.

WARNING

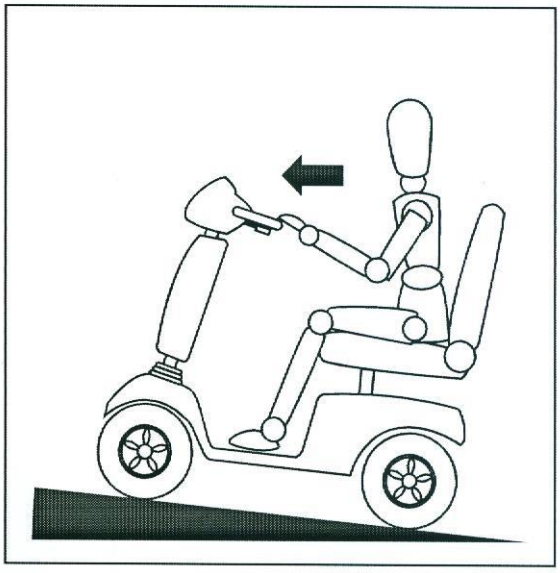
- When driving up an incline, try to keep your scooter moving. If you must stop, start up again slowly and accelerate cautiously. When driving down an incline, set your scooter to the slowest setting and drive in the forward direction only.

- Do not zigzag or drive at an angle up the face of the incline. Drive your scooter straight up the incline. This greatly reduces the possibility of a tip or a fall. Always exercise extreme caution when negotiating an incline.

- You should not travel up or down a potentially hazardous inclines, such as area covered with snow, ice, or wet leaves.

- When on any type of incline or decline, never place the scooter in **"Free wheel"** mode while seated on or off the scooter. It may result in personal injury and damage to your scooter. Never travel down an incline backwards; it may result in personal injury.

(Picture 1.1 with driving position- Increased stability driving position)



Picture 1.1 Incline Information

Braking information
Your scooter is equipped with a powerful braking system:

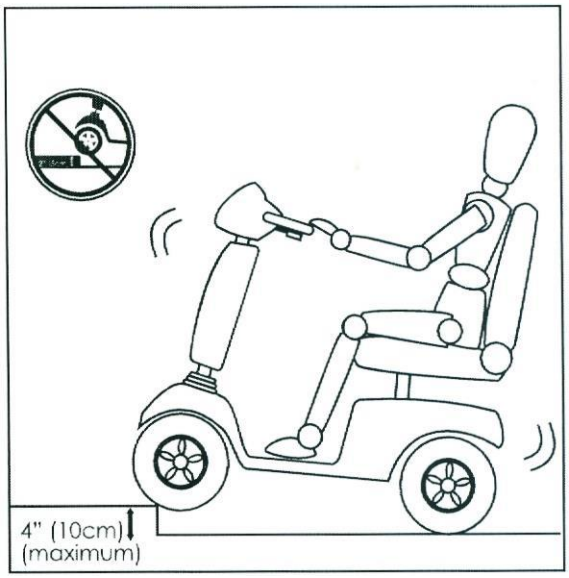
Electromagnetic regenerative brake: Uses electricity to rapidly slow the vehicle when the throttle control lever returns to the center/stop position and act as a parking brake.

Manual brake: Activates mechanically when power is removed from the system for any reason. The manual brake is not a parking brake. It can be used as a running brake in freewheel mode.

In freewheel mode an assistant must operate the parking brake by engaging the drive system again. No battery power is necessary for this function.

Outdoor driving surface
Avoid driving on uneven terrain or soft surface.
Avoid tall grass that can become tangled in the running gear.
Avoid loosely packed gravel and sand.
If you feel unsure about a driving surface, avoid the surface.

Obstacles (steps, curbs, etc.)
Do not attempt to drive your scooter backwards down a step, curb, or any other obstacle. This may cause the scooter to tip. We recommend that you do not attempt to negotiate a curb that has a height greater than 2” in. (5 cm). Doing so could cause instability in your scooter.



Pictures 1.2 & 1.3 Incline Information

Inclement weather precautions
Exposure of your scooter to inclement weather conditions should be avoided whenever possible. If suddenly caught up in rain, snow, severe cold or heat while operating your scooter, proceed to shelter at the earliest opportunity. Thoroughly dry your scooter before storing, charging, or operating your scooter.

Freewheel mode
When your scooter is in freewheel mode, the braking system is disengaged. Disengage the drive motors only on a level surface. Stand to the side of the scooter to engage or disengage freewheel mode. Do not sit on a scooter to do this. Freewheel mode is only to be used with an assistant, who can engage the freewheel mode.

Stairs and elevators
Electric scooters are not designed to travel up or down on stairs or escalators. Always use an elevator.

Batteries
Scooter batteries are very heavy and should be lifted by two people. Always protect the batteries from freezing. Charging a frozen battery may result in damage to the battery.

Transport
Do not remain seated in your scooter while traveling in a motor vehicle. The scooter should be stowed secured in the vehicle trunk or within a van, or on some type of scooter lift.

Getting on and off your scooter
Getting on and off your scooter requires a good sense of balance. Please follow these safety tips when getting on and off your scooter:

- Remove the key from the key switch.
- Ensure that your scooter is not in freewheel mode.
- Make certain that the seat is fixed into place.

WARNING
Avoid putting all your weight on the scooter armrests and do not use the armrests for weight bearing purposed, such as transfers. It may cause the scooter to tip, resulting in a fall from the scooter.

Alcohol
Do not operate your scooter while you are under the influence of alcohol, as this may impair your ability to drive safely.

Safety Summery

- Do not carry passengers or exceed the maximum weight capacity of the scooter.
- Do not exceed any incline over 12°. Ask for assistance when descending or ascending steep gradients.
- Do not attempt to mount a curb higher than 5 cm (2")
- Do not use on the road, except when crossing between pavements. When crossing a public road always take extra care and observe the rules of the road.
- Do not turn off the controls by switching the key off while the scooter is moving. This will bring engage the brakes immediately and could cause damage to the scooter and yourself.
- Do not drive through water, deep soft terrain (soft dirt, loose gravel, deep grass or sand).
- Do not mount or dismount the scooter unless the brakes are engaged, and the controls are switched off.
- Do not operate the scooter if the unit is in freewheel mode.
- We recommend that you do not sit on your scooter when in a vehicle, but transfer to a vehicle seat and stow the scooter in the vehicle storage space.
- Do not turn suddenly at full speed. Always stop before making a sharp change of direction.
- Always turn the speed dial to the slowest setting (turtle symbol) when going down a hill.
- Always keep your feet on the footplate when moving.
- Do not expose the scooter to direct rain or high humidity as it may cause it to malfunction (electrically or mechanically).
- Always make sure that the batteries are sufficiently charged before setting out on a journey.
- Do not use parts, accessories or adapters other than those authorized by Eclipse Medical Inc.

Features

Controls (Digital dashboard)

The tiller includes a speed adjustment knob, throttle control lever, LCD display, half speed button, hazard light button, headlight button, turn signal buttons, and horn button.

WARNING

User should not modify the controller parameters; it may result in personal injury and damage to your scooter.

Speed Adjustment Knob (1)

This dial allows you to preselect and limit your scooter's top speed. The image of the turtle represents the slowest speed setting. The image of the hare represents the fastest speed setting.

Half Speed Button (2)

Half Speed is activated by pressing the Half Speed button. Once pressed an image of a turtle will show on the right side of the LCD display. Pressing the button, a second time will turn it off.

Horn Button (3)

The horn button activates a warning horn sound. Releasing the button deactivates the horn.

Headlight Button (4)

The headlights are activated by pressing the headlight button. Pressing the button, a second time will turn them off.

Hazard Light Button (5)

The hazard lights are activated by pressing the hazard light button. Pressing the button, a second time will turn them off.

Turn Signals (6 & 7)

Right turn signal button (6):

- Pressing the button will activate the right turn signal lights. Pressing a second time will turn them off.

Left turn signal button (7):

- Pressing the button will activate the left turn signal lights. Pressing a second time will turn them off.

Throttle Control Lever (8 & 9)

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.

To Move Forward (8):

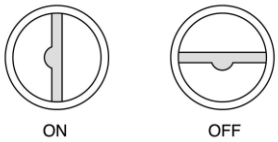
- Use your right-hand fingers to pull back on the right side of the throttle control lever.

To Move Backwards (9):

- Use your left-hand fingers to pull back on the left side of the throttle control lever.

Release the throttle control lever and allow your scooter to come to a complete stop before engaging the other side of the lever. When the throttle control lever is completely released, it automatically returns to the center "stop" position and engages your scooter's brakes.

Key Switch (10)
Insert the key into the key switch and turn to a vertical position. The scooter is **on** and ready to drive. When the key is turned to a horizontal position, the scooter is **OFF**.

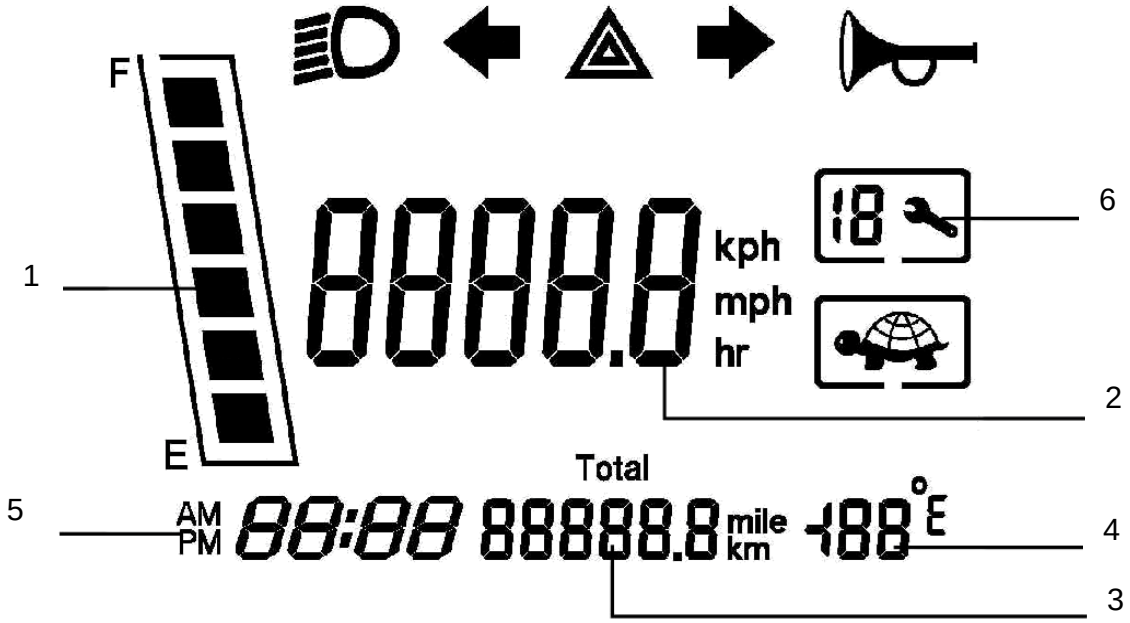


Tiller Angle Adjustment Lever (11)
The tiller angle adjustment lever allows you to position the tiller closer or further away from you. Using your left hand squeeze the lever and the pull or push the tiller into a conformable position. Release the leaver to lock in place.

Battery Charger Port (12)
Off board battery charger receptacle

Power Port (13)
5A fuse only for GPS/Mobile Phone

LCD Display
The LCD display shows battery condition, speedometer, odometer, temperature and maintenance messages.



1. **Battery condition**
   Be aware when the battery becomes depleted. Estimate the distance and expected time for your trip before you start. We recommend you charge the battery after using you scooter. (See Battery and Charging section)

2. **Speedometer**
   The LCD display shows current speed.

3. **Odometer**
   The LCD display shows km's or miles driven.

4. **Temperature**
   The LCD display shows current air temperature.

5. **Time**
   The LCD display shows current time.

6. **Diagnostic fault code**
   If your scooter requires service an image of a **wrench will flash** on the LCD display along with a code number.

   1. Battery's need recharging.
   2. Battery voltage too low
   3. Battery voltage too high
   4. Current time limit out
   5. Brake fault
   6. Not in neutral at power up
   7. Speed potentiometer error
   8. Motor volts error
   9. Other internal error

WARNING

Be careful when you perform any adjustments to avoid any injury. It is recommended that two people help in the removal of the seat.

Tiller Adjustment

The tiller angle adjustment allows you to move the tiller dashboard to a comfortable driving position.

1. Locate the angle adjusting lever located on the left side of the control panel dashboard.
2. Squeeze the lever and pull the tiller towards you or away from you.
3. Once your desired angle is achieved release the lever.

****NOTE: Make sure the tiller is securely locked in place before driving.**

Adjusting Your Scooter Seat

Seat swivel adjustment

The seat swivel lever located on the right side of the side allows the seat to rotate in 45-degree increments. You may use this feature to make it easier to transfer in and out of the seat.

1. Pull up on the lever located on the lower right side of the seat.
2. Rotate the seat left or right to the desired position.
3. Release the lever to secure the seat into place. Try to turn the seat back and forth slightly allowing the lever to lock completely into place.

****NOTE: Make sure the seat is securely locked in place before driving.**

Seat recline adjustment

You can recline the seatback angle to provide a more comfort while driving.

1. Pull up on the seat back recline lever located on the right side of your seat.
2. Slowly and carefully adjust the seat back angle
3. Release the lever to lock seat back into position.

****NOTE: Make sure the seat is securely locked in place before driving.**

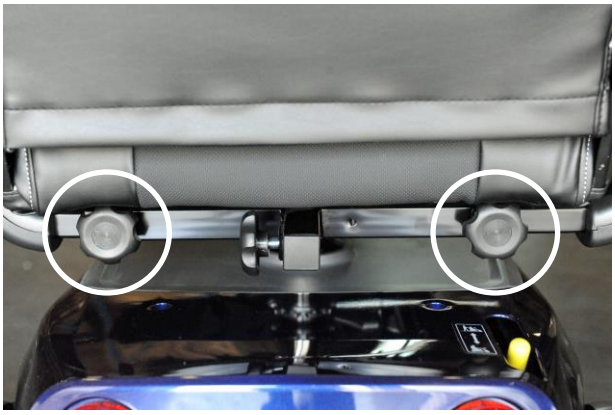
Seat Slide Adjustment

The seat can be moved closer or farther away from the tiller.

1. Pull up on the lever located under the front right corner of the seat.
2. Slide the seat forward or back into your desired position.
3. Release the lever.

****NOTE: Make sure the seat is securely locked in place before driving.**

Armrest Width Adjustment



The armrest width can be adjusted inward or outward.

1. Loosen the armrest adjustment knobs.
2. Slide the armrests in or out to the desired width.
3. Tighten the armrest adjustment knobs.

Armrest height adjustment

The armrest height can be adjusted up or down.

1. Loosen the knob at the rear of the armrest.
2. Lift or lower the armrest.
3. Tighten the armrest knob at the desired armrest height.

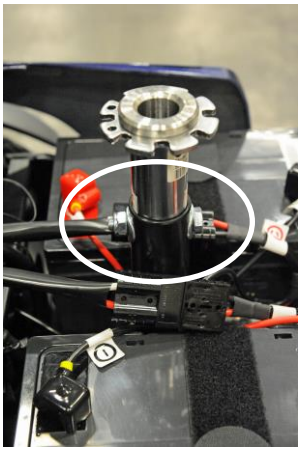
Seat Height Adjustment

The seat can be set to 4 different heights.

1. Remove the seat.
2. Remove the rear chassis cover. **(Fig. A)**
3. Loosen the seat height adjustment nut and remove it from the bolt. Remove the bolt. **(Fig. B)**
4. Raise or lower the seat post to the desired seat height.
5. While holding the seat post at that height, match up the holes in the seat post with those of the outer seat post frame.
6. Insert the seat height adjustment bolt.
7. Install the washer & nut onto the bolt and tighten.
8. Reinstall the rear shroud and the seat.

Fig. A

Fig. B



Free Wheel Mode

Free-wheeling is used when you want to move your unit without riding on it.
If for reasons of convenience you need to free wheel your scooter, follow the instructions below.

1. To activate manually, turn the scooter off and remove key.
2. Locate the YELLOW free-wheel lever at the back of the scooter.
3. Push the lever to the “FOWARD” position to **disengage** the brake and allow the scooter to be pushed freely.
4. Pull the lever to the “BACK” position to **reengage** the brake.

Caution Notes:

Never sit on your scooter with the free wheel in the disengaged position. When the free-wheel device is disengaged, you do not have braking function. Do not park your scooter on a slope with the free wheel disengaged.

If your scooter is in the free-wheel mode, when you depress the speed control you will not be able to move under motor power. Depress the free-wheel switch once again. You will hear a clicking sound of the brakes being re-applied to be able to start driving your scooter.

General: If you can push your scooter, the free-wheel switch is on and the electromagnetic brakes are disengaged. Please check once more the above-mentioned procedure for re-engaging the drive.

Operating Your Scooter

Getting onto your scooter

For your first drive, make sure that you and your scooter are on a level surface.

1. Make sure the scooter is turn is off before sitting on it.
2. Stand at the side of your scooter.
3. Disengage the seat rotation lever and rotate the seat until it is facing you.
4. Make certain that the seat is fixed securely in position.
5. Position yourself comfortably and securely in the seat.
6. Disengage the seat rotation lever and rotate the seat until you are facing forward.
7. Make certain that your feet are safely on the floorboard and the seat is securely locked into position.

Getting off your scooter

1. Bring your scooter to a complete stop.
2. Turn off your scooter.
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 fixed securely in 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.

Parking in Public

If you need to park and leave your scooter, simply remove your key. This will keep the brake on and will make your scooter difficult to move. It is best to leave it in sight of someone (like a store assistant etc.) who can watch it for you. Another precaution is to record your serial number and the date of purchase.

Your serial number can be found under the seat on the seat post.

Operating your scooter

Make certain that you are properly sitting on your scooter. Ensure that the ‘speed control dial’ is turned to slow for your first drive. When you have become more confident, you can increase the setting to a higher speed. Push the ‘thumb lever control’, as described earlier. You will very gently accelerate. Release the lever, and you will gently stop. Practice these two basic functions until you get used to them.

Steer the scooter by turning the handlebars in the direction you wish to maneuver. Be sure to remember to give a wide clearance when turning, so that the rear wheels follow the path of the front ones, instead of cutting short. Cutting short on pavement corners can mean that a back wheel will go off the pavement, causing a stability problem.

If you must steer in a tight spot, such as entering a doorway or when turning around, stop and turn the handle bars to where you want to go, then apply the power gently. This will make the scooter

turn sharply. It will still go gently and with complete stability. Practice in an open area until you are proficient.

Reversing requires attention. Be sure your 'speed control dial' is turned to 'slow' before you reverse. Push the left thumb reverse lever. Remember; when you reverse you must steer in the opposite direction of the way you want to go. Practice is required, again use open space.

REMEMBER: If it is a tight turn, turn your steering column before applying power. Steer wide of all corners and obstacles; please move slowly and with care.

WARNING NOTE: Do not turn off your scooter while it is in motion. Failure to observe this warning may irreparably damage the main electronic speed control unit or drive transmission. Always slow your scooter down to a stationary position before you switch the scooter off.

Control Through Tight Spots

When you start using your scooter you will meet some obstacles that will require some practice to drive through smoothly.

Here are some common problems, with tips that will help you master them quickly. You will soon be in control through doors, up and down ramps, up and over curbs, through grass and gravel, with surprising ease by following these tips.

Control Through Doors

Approach an unfamiliar door slowly, sizing it up. Does it have a knob or a push bar? Does it open towards you, or away? Think in terms of using the power of the scooter to do the work for you! You need not strain.

Hold the doorknob or bar in one hand and apply power with the other hand (remember that you can drive forward by using your left thumb to move the throttle lever towards you). If the door is self-closing, you can go through, allowing the door to close behind you. If the door is not self-closing, just stop when you are clear of the door and push it closed.

If the door opens towards you, hold the knob or bar with one hand and gently let the reverse power do the work. When the door is open wide enough, go ahead quickly, leaving your hand on the door to keep it free of the scooter and letting go as you pass the doorjamb. This is an easy technique. Practice makes perfect. Remember; let your scooter do the work without wearing you out!

Control on Ramps

More and more buildings have ramps for wheelchair access. Some have a change of direction in the middle, and good cornering is required. Make a wide maneuver with your front wheel(s) around tight corners, so that your back wheels follow a wide arc to stay clear of the corner.

If you stop while facing uphill, the automatic parking brake will hold you safe. To start again, simply push the forward direction lever, the parking brake will release, and you will start to move.

Going down the ramp, keep the speed dial set on 'slow'. This will keep you in a safely controlled descent. If you wish to stop completely, release the control lever, and you will come to a gentle stop.

Control Over Grass, Gravel and Inclines

The scooter performs admirably on grass, gravel and on hills. **BUT YOU MUST NOT EXCEED THE PARAMETERS ESTABLISHED IN THIS MANUAL**. Please refer to the 'Rules for Safe Use' section. Safety must come first. If you are unsure about a situation, avoid it.

Packed gravel, such as on driveways or roads, will present few problems. Loose, deep gravel should be avoided, as well as loosely packed sand.

***CAUTION*:** Because of the power of your scooter, you will be able to climb small inclines. But the maximum gradient limit is 8 degrees. The reason for this is to ensure good stability.

Always make certain your scooter is in full working order before attempting to climb obstacles.

Never attempt to drive beyond the design capability of your scooter. Observe weather conditions. Tires can slip on wet or icy conditions.

DO NOT DRIVE THROUGH DEEP WATER OR LEAVE YOUR SCOOTER EXPOSED TO HEAVY RAIN (i.e., during or after a thunderstorm).

Only make a turn when all wheels are on or off the sidewalk. Failure to observe this warning could result in the machine becoming unstable and toppling over.

Always lean forward when ascending curbs. This will enable you to climb easily and eliminate any chance of instability.

PLEASE NOTE: The rear stability of your scooter is dependent on several factors which you should consider before attempting to climb a steep slope or other obstacle: a) your height; b) the angle of your backrest; c) your weight; and d) the angle of slope or height of the obstacle you are attempting to climb. All these factors can affect the rear stability of your scooter. If you are unsure of your capability to climb an obstacle, always think 'safety first'.

REMEMBER SAFETY IS THE KEY TO ENJOYING YOUR SCOOTER

Power down timer feature

Your scooter is equipped with an energy saving automatic power down timer feature designed to preserve your scooter's battery life. If you mistakenly leave the key in the key switch and in the "on" position but do not use your scooter for approximately 30 minutes, the scooter's controller shuts down automatically. Although the controller is shut down, power will still be supplied to the scooter's lighting system.

If the power down timer feature takes effect, perform the following steps to resume normal operation:

1. Remove the key from the key switch.
2. Reinsert the key and power up your scooter.

Batteries and Charging

****MANDATORY****

Read the battery charging instructions in this manual and in the manual supplied with the battery charger before charging the batteries.

Batteries and Charging

Your scooter is equipped with maintenance free, sealed lead acid batteries. The batteries require no maintenance other than ensuring that they are properly charged. If other batteries are used, check with your battery supplier for proper battery care and maintenance instruction.

Your scooter batteries are sealed, so they are most likely to be accepted for transport on all commercial aircrafts. Please consult your carrier prior to departure, as they will need advanced notice asking them to carry your scooter and batteries on the flight.

Your scooter comes supplied with two batteries. ****NOTE: No warranty on batteries****

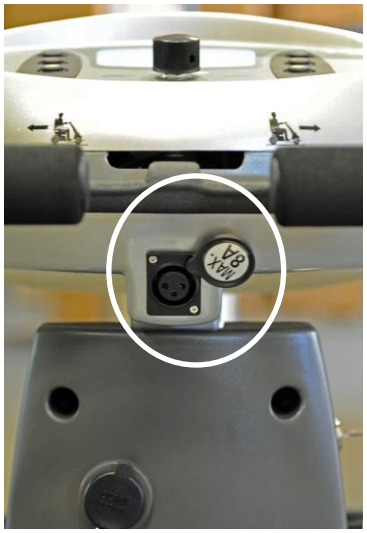
WARNING

Your batteries may only have a partial charge when you first receive your scooter, you may not experience full riding time until you fully charge them. Your scooter is equipped with a compatible battery charger. Charging your batteries as specified below will ensure maximum life, power and range.

Keep the batteries fully charged to keep your scooter running smoothly.

Using off-board charger

Follow the steps to charge your batteries:



1. Position your scooter close to a standard electrical outlet.
2. Turn off the power to the scooter.
3. Plug the power charger cable into an electrical outlet.
4. Plug the round 3-pin charger cable into the power socket on the scooter tiller. You will need to flip aside the plastic safety cover on the scooter charger port.
5. Extend the charger power cord and plug it into the electrical outlet. We recommend that you charge the batteries for 8 to 14 hours. As it charges, you will see progress lights on the charger unit. A RED light means the charger is ready to use. A WHITE light means charging is in progress. A GREEN light means the charger is finished, and the scooter batteries are fully charged.

6. When the batteries are fully charged, unplug the charger power cord from the electrical outlet and then from the scooter charger port.

****PROHIBITED****

- Never use an extension cord to plug in your battery charger. Plug the charger directly into a properly wired standard electrical outlet.
- Removal of the grounding prong can create an electrical hazard. If necessary, properly install an approved 3-pronged adapter to an electrical outlet having 2-pronged plug access.
- Do not allow unsupervised children to play near the scooter while the batteries are charging. We recommend that you do not charge the batteries while the scooter is occupied.

WARNING

- Inspect the battery charger, wiring, and connectors for damage before each use.
- Do not attempt to open the battery charger case. If the off-board battery charger is equipped with cooling slots, then do not attempt to insert objects through these slots.
- Use only the original battery charger, which was accompanied with your scooter.

Frequently asked questions

How does the charger work?

When your scooter's battery voltage is low, the charger works harder, sending more electrical current to the batteries to bring up their charge. As the batteries approach a full charge, the charger sends less and less electrical current. When the batteries are fully charged, the current sent from the charger is at nearly zero amperage. Therefore, when the charger is plugged in, it maintains the charge on your scooter's batteries, but does not overcharge them. We do not recommend that you charge your scooter's batteries for more than 24 consecutive hours.

Can I use a different charger?

Chargers are selected precisely for particular applications and are especially matched to the type, size, and chemical formulation of specific batteries. Any charging method resulting in batteries being charged individually is prohibited.

What if my scooter's batteries won't charge?

- Ensure the red (+) and black (-) battery cables are connected properly to the battery terminals.
- Ensure battery harnesses that extend from the batteries are plugged / connected into their matching connector/ terminals.
- Ensure both ends of the charger power cord are inserted fully.

How often must I charge the batteries?

If you decide to use your scooter all day or only for a short while, you can determine how often and for how long you should charge your scooter’s batteries. We designed the off-board charger so that it will not overcharge your scooter's batteries. However, you may encounter some problems if you do not charge your batteries often enough and if you do not charge them on a regular basis. Following the guidelines below will provide safe and reliable battery operation and charging.

- If you use your scooter daily, charge its batteries as soon as you finish using it for the day. We recommend that you charge the batteries for 8 to 14 hours after daily use.

- If you use your scooter once a week or less, charge its batteries at least once a week for 12 to 14 hours at a time.
- Keep your scooter's batteries fully charged.
- Avoid fully discharging your scooter's batteries. Doing this will shorten the life of the batteries.

How can I ensure maximum battery life?

Fully charged deep-cycle batteries provide reliable performance and extended battery life. Keep your scooter's batteries fully charged whenever possible. Protect your scooter and batteries from extreme heat or cold. Batteries that are regularly and deeply discharged, infrequently charged, stored in extreme temperatures, or stored without a full charge may be permanently damaged, causing unreliable performance and limited service life.

How can I get maximum range or distance per charge?

Rarely will you have ideal driving conditions such as smooth, flat or hard driving surfaces with no curves or windy conditions. Often, you will face hills, pavement cracks, uneven and loosely packed surfaces, curves, and wind, all of which affect the distance or running time per battery charge. Below are a few suggestions for obtaining the maximum range per battery charge.

- Always fully charge your scooter's batteries prior to daily use.
- Maintain but do not exceed the psi / bar/ kPa air pressure rating indicated on pneumatic tires.
- Plan your route ahead to avoid as many hills, uneven, broken or soft surfaces as possible.
- Limit your baggage weight to essential items.
- Try to maintain an even speed while your scooter is in motion.
- Avoid stop-and-go driving.

What type and size of battery should I use?

We recommend deep-cycle batteries that are sealed and maintenance free. Check with your local dealer for the correct replacement size and type for your scooter.

How do I change a battery in my scooter?

Battery posts, terminals, and related accessories contain lead and lead compounds. Wear goggles and gloves when handling batteries and wash hands after handling. Contact your local dealer for battery purchase and replacement.

- Always use two batteries of the exact same type, size, chemistry, and amp-hour (Ah) capacity. Refer to the specifications table in this manual and in the manual supplied with the battery charger for recommended type and capacities.
- Contact your dealer if you have any questions regarding the batteries in your scooter.
- Do not replace the batteries while the scooter is occupied.
- Do not mix old and new batteries. Always replace both batteries at the same time.

Care and Maintenance

Your scooter requires a minimal amount of care and maintenance. If you do not feel confident in your ability to perform the maintenance listed below, you may schedule inspection and maintenance at your authorized dealer. The following areas require periodic inspection and / or care and maintenance.

Tire Pressure

- If equipped with pneumatic tires, always maintain the psi/bar/kPa air pressure indicated on each tire.
- It is important that the psi/bar/kPa air pressure indicated on each tire be maintained in pneumatic tires at all times. **Do not underinflate or overinflate your tires.**
- Low pressure may result in loss of control, and overinflated tires may burst. Failure to maintain the psi/bar/kPa air pressure indicated on pneumatic tires at all times may result in tire and/or wheel failure.
- Regularly inspect your scooter's tires for signs of wear.

Motor Brakes

If the motor brakes are functioning correctly, you will not be able to push your scooter when it is switched off or switched on with the speed control throttle in the neutral position.

If your scooter can be pushed, the motor brake(s) may be faulty. **Please do not use the scooter and contact your local dealer immediately.**

SAFETY NOTE: For your own safety, we recommend that you check the function of your scooter brakes prior to using.

Exterior Surfaces

- Bumpers, tires, and trim can benefit from an occasional cleaning. Using a clothe, lightly wash with mild soap and water.
- Do not use rubber or vinyl conditioner on the scooter's Vinyl seat or tire tread, as this may cause them to become slippery.

CAUTION: Do not directly spray water at your scooter. Water could be forced into the electronics and cause permanent damage.

Cleaning and Disinfection

- Use a damp cloth and mild, non-abrasive cleanser to clean the plastic and metal parts of your scooter. Avoid using products that may scratch the surface of your scooter.
- If necessary, clean your product with an approved disinfectant. Make sure the disinfectant is safe for use on your product before application.
- Follow all safety instructions for the proper use of the disinfectant and cleaning agent before applying it to your product. Failure to comply may result in skin irritation or premature deterioration of upholstery and/or scooter finishes.

Battery Terminal Connections

- Make certain that the terminal connections remain tight and un-corroded.
- The batteries must sit flat in the battery wells.

ABS Plastic Shrouds

- The front tiller shroud, front shroud, and the rear shroud are formed from durable ABS plastic and are coated with an advanced formula urethane paint.
- A light application of car wax will help the shrouds retain their high gloss.

Motor Brushes

The motor brushes are housed inside of the motor assembly. They should be inspected periodically for wear by your **authorized dealer only.**

Wheel Replacement

If your scooter is equipped with pneumatic tires and you have a flat tire, you can have the tube replaced. If your scooter is equipped with foam / solid tires, the entire wheel must be replaced depending on the model. Contact your local dealer for information regarding replacement wheels for your scooter.

Wiring Harnesses

- 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.
- Even though the scooter has passed the necessary testing requirements for ingress of liquids, 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.

LCD Setting Procedure

1. Key switch off.
2. Keep pressing both head light button and half speed button for 3 seconds and key switch on
3. Release both head light button and half speed button, the display is now in setting mode.
4. Press hazard light button once at a time to choose the item you want to set. (The items are AM/PM, hour, minute, °C/°F, km/mile and kph/mph.)
5. Press left indicator button or right indicator button to change the setting.
6. Leave all buttons for more than 5 seconds, the display will automatically go back to drive mode and store the settings.

Console, Charger, and Electronic Controller Module

- Keep these areas away from moisture.
- Before operating your scooter, allow any of these areas to dry thoroughly if they have been exposed to moisture.

Storing your Scooter

If you plan on not using your scooter for an extended period, it is best to:

1. Fully charge the batteries prior to storage.
2. Disconnect the batteries from the scooter.
3. Store your scooter in a warm, dry environment.
4. Avoid storing your scooter where it will be exposed to extreme temperatures.

Always protect batteries from freezing temperatures and never charge a frozen battery. Charging a frozen battery can result in damage to the battery.

Trouble Shooting

Any electromechanical device occasionally requires some troubleshooting. However, most of the problems that may arise can usually be solved with a bit of thought and common sense. Many of these problems occur because the batteries are not fully charged or because the batteries are worn down and can no longer hold a charge.

DIAGNOSTIC FAULT CODES

The diagnostic fault codes for your scooter are designed to help you perform basic troubleshooting quickly and easily. The scooter will display image of a wrench with a diagnostic fault code on the LCD display. Please contact your local dealer for service.

1. Battery needs recharging.	2. Battery voltage too low
3. Battery voltage too high	4. Current time limit out
5. Brake fault	6. Throttle not in neutral at power up
7. Speed potentiometer error	8. Motor error
9. Other internal error	

What if the system on my scooter seems to be "dead"?

- Make certain that the key is in the "on" position.
- Check that the batteries are fully charged.
- Push in the main circuit breaker reset button.
- Make certain that battery harnesses and the front-to-rear harness are firmly connected.
- Be sure the power down timer feature has not been activated.

What if my scooter does not move when I engage the throttle control lever?

- When the manual freewheel lever is pushed forward, the brakes are disengaged and all power to the motor/transaxle assembly is cut.
- Push rearward on the manual freewheel lever, turn the scooter off and then turn the scooter on to return to normal scooter operation.

What if the main circuit breaker repeatedly trips?

- Charge the scooter's batteries more frequently.
- If the problem continues, have both of your scooter's batteries load tested by your authorized dealer.
- If the main circuit breaker trips repeatedly, contact your authorized dealer for service.

What if the battery condition dips way down and the motor surges or hesitates when I engage the throttle control lever?

- Fully charge your scooter's batteries.
- Have your authorized dealer load test each battery.
  If you experience any problems with your scooter that you are not able to solve, immediately contact your authorized dealer for information, maintenance, and service.

What about public transportation?

If you intend to use public transportation with your scooter, you must contact the transportation provider **in** advance to determine their specific requirements.

Warranty

3 YEAR LIMITED WARRANTY

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

This warranty only covers failures due to defects in materials or workmanship which occurs during normal use and does not cover damage that occurs in shipment or failures which are caused by products not supplied by ***Eclipse Medical Inc***. 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 acts of God.

This warranty does to cover neglect or abuse, use of parts or changes not authorized by ***Eclipse Medical Inc.***, or exceeding weight limit specifications as outlined in your Product User Manual.

This warranty does not include labour charges.

This warranty does not include shipping charges incurred by the purchaser when returning defective parts for repair/replacement.

Warranty service must be performed by an authorized ***Eclipse Medical Inc. Dealer***.

Do not return faulty/defective parts without written authorization.

This warranty applies to product purchased within Canada.

This warranty is void if the original serial number tag is removed from the product or altered in any manner.

3 YEARS	**FRAME, SEAT POST**
2 YEARS	**MOTOR, TRANSAXLE, BRAKE**
1 YEAR	**WIRING HARNESSES, CONTROLLER, ELECTRONICS, SUSPENSION, CHARGER**

The warranty does not cover the following items which may need replacement due to normal wear and tear:

- **Tires & Tubes**
- **Brake Disc and Pads**
- **Upholstery & Seats**
- **Body Shrouds**
- **Fuses & Bulbs**
- **Motor Brushes**

Specifications

S846		
Dimensions: L x W x H	**cm (in)**	**146(57) x 65(26) x 123(49)**
Total Weight w/ Batteries	**kg (lb)**	**130 (286)**
Battery	**_V_Ah x Pcs**	**12V 75Ah x 2**
Charger		**24V 6A, Off Board**
Tires		**12”**
Motor	**HP / DC24V**	**2.3 / 1750W (Max)**
Max. Speed	**km/hr (mph)**	**15 (9.5)**
Driving Distance*	**km (mile)**	**50 (32)**
Weight Capacity	**kg (lb)**	**182 (400)**
Suspension		**Front & Rear**
Turning Radius	**cm (in)**	**161 (63)**

***Note**: Maximum driving distance is based on a new fully charged battery depending on weight, terrain and temperature.

All specifications are subject to change without notice

Accessories

CANE1	Single Cane Holder
CANE2	Dual Cane Holder
CANOPY	Scooter Canopy
OXYHOLDER	Oxygen Holder
REARTOTE	Rear foldable storage bag
WALKHOLDER	Walker Holder

Eclipse Medical Inc.
110 – 725 Eaton Way
Delta, B.C.
V3M 6S5
Canada
Tel. (604) 540-0114
Fax. (604) 540-0172
www.eclipsemedical.com

Eclipse Medical Inc.
106 Nordic Ave
Pointe-Claire, Québec
H9R 3Y2
Tel: 514-428-5996
Fax: 514-694-1299
www.eclipsemedical.com

05/2018 V1.0 E