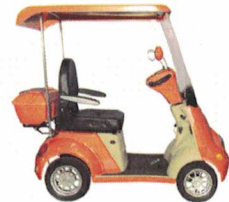




**EW-54**

**Owner's Manual**

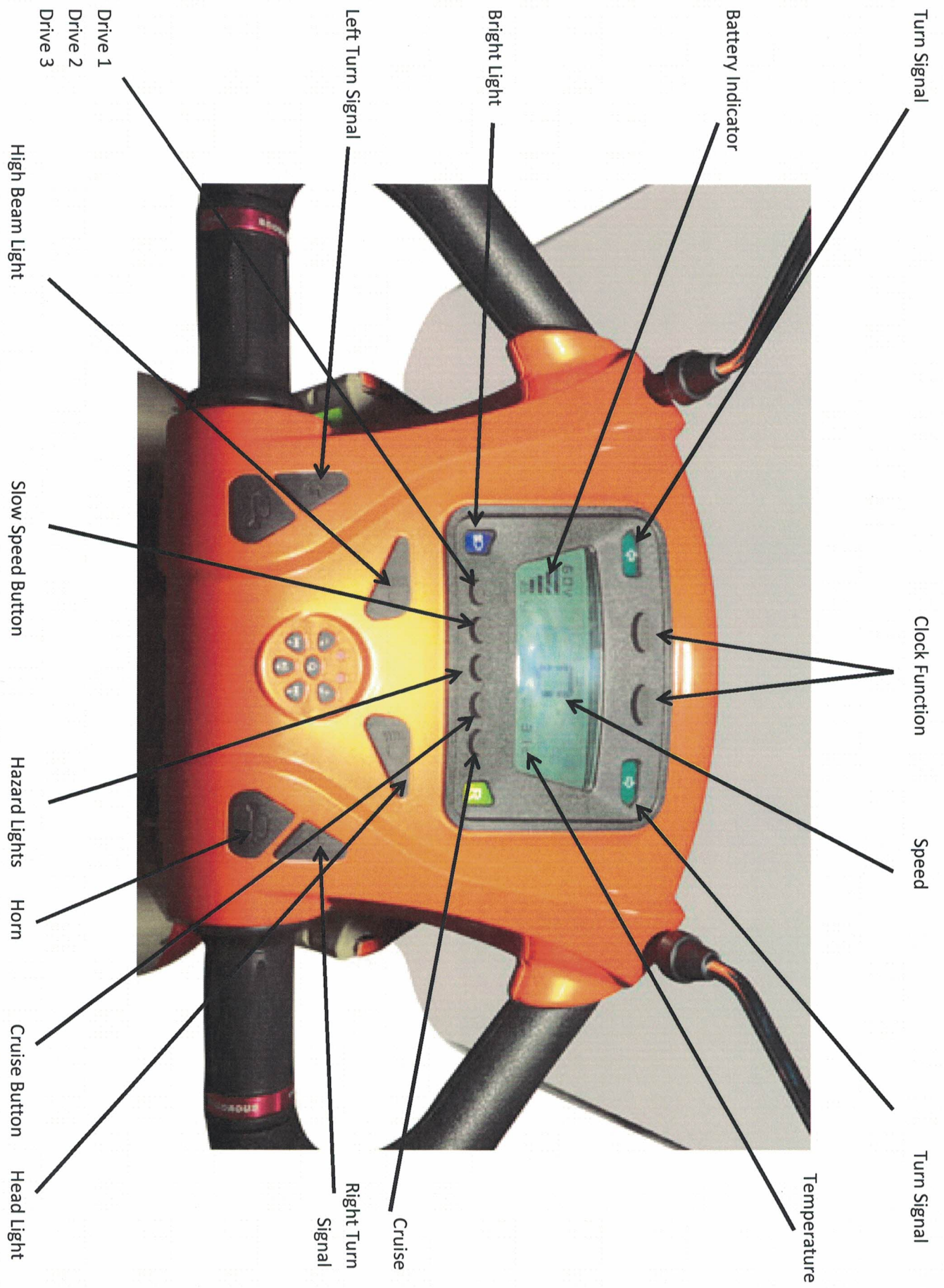


**[www.ewheelsdealers.com](http://www.ewheelsdealers.com)**

**(888) 305-0881**

## **Table of Contents**

1.	Instrument Panel.....	3
2.	Music system operation.....	4
3.	Before you operate your scooter.....	5
4.	Scooter initial operation.....	5
5.	Technical specification.....	6
6.	Cruise Control.....	7
7.	Mirror Assembly.....	7
8.	Variable Speed Control.....	8
9.	Twist Throttle.....	9
10.	Safety Instruction.....	9
11.	Tiller Assembly.....	10
12.	General Instructions.....	11
13.	Environment Condition.....	12
14.	Seat Adjustment.....	13
15.	Trunk.....	13
16.	Key Fob.....	14
17.	Clock Adjustment.....	14
18.	Batteries and Charger.....	15-16
19.	Charger use.....	16
20.	EMC Statement.....	14-16



Turn Signal

Battery Indicator

Clock Function

Speed

Turn Signal

Temperature

Bright Light

Left Turn Signal

Right Turn Signal

Cruise

Signal

Drive 1  
Drive 2  
Drive 3

High Beam Light

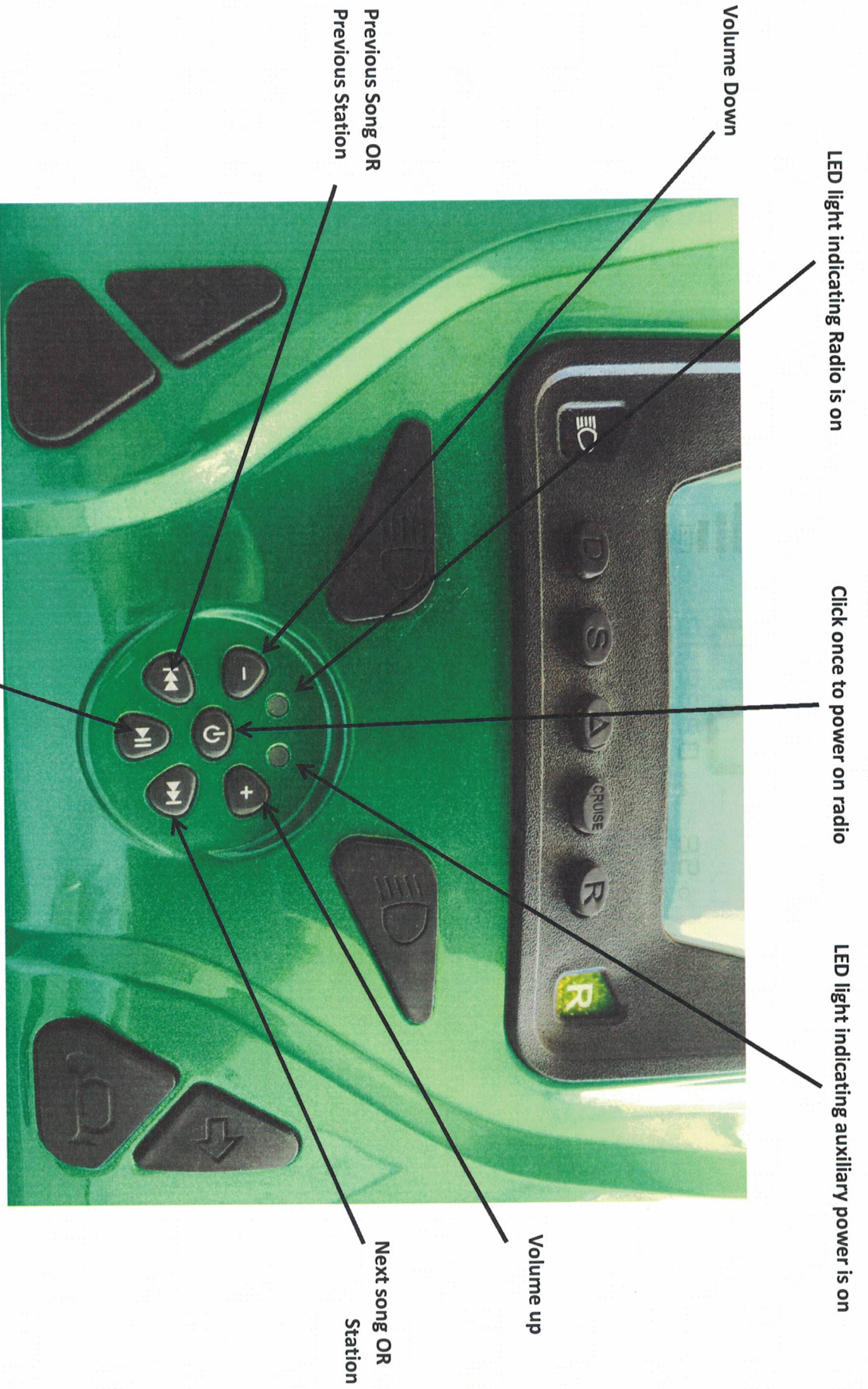
Slow Speed Button

Hazard Lights

Horn

Cruise Button

Head Light



## MUSIC SYSTEM OPERATION

## **Before you operate the scooter**

Locate the below listed materials in rear basket:

- Set of mirrors
- Electric charger
- Scooter Key (1: In Charger Box 2: Underneath seat)
- Owner's manual
- Inspection Checklist

### **IT IS VERY IMPORTANT TO READ OWNER'S MANUAL BEFORE SCOOTER OPERATION**

#### **Scooter Initial Operation**

- Read Owner's manual
- Insert key into ignition (or activate scooter using key fob)
- Set digital speed D1 to lowest setting
- Turn lights on
- Adjust mirrors to desired positions
- Place both hands on black hand grips
- Twist the throttle slowly with your right hand
- Enjoy the ride!
- Turn off scooter by simply turning key to off position

## Technical Specifications

Model	EW-54
Weight Capacity	500Lbs.
Seat: Type/Size	18"
Front Wheel	13"x 4"
Rear Wheel	14"x 5"
Maximum Speed	15 MPH
Battery Specifications	60 Volts
Battery Range	43 Miles
Charger Type	Off Board
Motor Type	700 Watt
Weight w/ Battery	221 lbs.
Turning Radius	164"
Suspension	Full
Length	70"
Width	27"
Height	62"
Seat Width	18"
Seat Height	25"
Seat Depth	18"
Back Height	19"
Wheel Base	41"
Ground Clearance	6"
Footrests	14"

## **Cruise Control**

The Cruise control is located just under the digital dash, indicated by the “Cruise” button. Simply reach your desired speed while driving the scooter and press the “Cruise” button and the scooter speed will be fixed at your current speed.

## **Mirror Assembly**

Your power scooter is shipped partially disassembled for protection during shipping. After unpacking, please check whether you have received the following main components as our standard specification (See Fig 1)

### 1. Mirrors



Fig 1

**Mirror Post**

To attach the mirrors simply place each mirror threaded end into the mirror post. Turn mirror clockwise and fasten mirror to scooter.

## **Operation of Scooter:**

1. To prevent injury to yourself or others, always ensure that the power is switched off when getting on or off the scooter.

Always check that the variable speed control is set to the desired speed setting.

## **Variable Speed Control**

The EW-54 has several speed setting capabilities:

1. The "S" button located just under the digital dash can be pressed and the scooter will function at a slow speed.
2. The "D" button located just under the digital dash can be pressed to set 3 different speed functions.
  - Press once for D1: Slow speed function
  - Press twice for D2: Moderate speed function
  - Press three times for D3: Fastest speed function
3. Always check you have selected the correct forward or reverse button when about to drive. The reverse button is located below the dash. When the reverse button is pressed the reverse light will illuminate.
4. Always reduce your speed when making sharp turns.
5. Do not switch off the power when the scooter is still moving forward
6. Use 12 volt batteries only.



## Twist Throttle

To operate the twist throttle simply place your hand on the throttle and twist the throttle towards you. The scooter speed is determined by how much you turn the throttle.



Twist Throttle

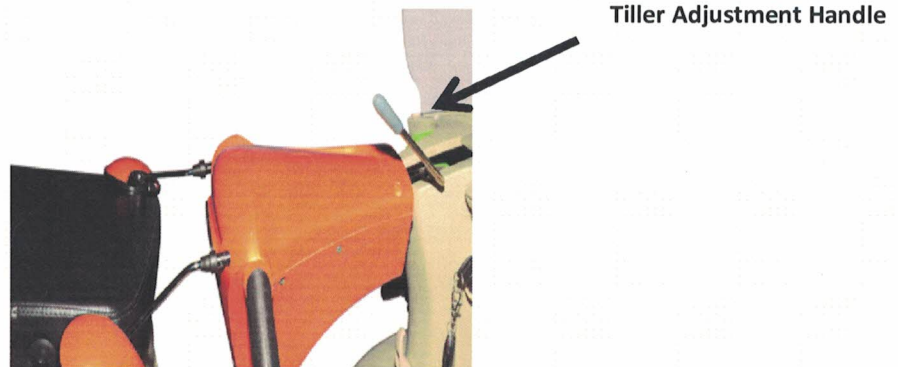
## Ramps and Curbs

1. Also check that ramp surface is roughened to prevent slipping. Never drive across a slope or turn sharply on a slope.
2. When driving up curbs, always check the height of the curb to ensure that it does not exceed 4" height

## **Tiller Assembly**

The EW-54 scooter tiller can be folded completely in a downward position. Simply pull the tiller adjustment handle towards you until it can be lowered anymore.

The tiller steering column will fold down parallel to the seat. To place the tiller in an upright position simply push the tiller in an upright position and push the tiller adjustment handle towards the windshield. Once the tiller adjustment handle is pushed all the way forward the tiller will be locked in place and the scooter can safely be operated.



## **General**

1. Always use a seatbelt, and keep your feet on the scooter all the time.
2. Do not exceed maximum weight capacity of 500lbs.
3. Do not attempt to lift or move a power scooter by any of its removable parts. Personal injury and damage to the power chair may result.
4. Never try to use your scooter beyond its limitations as described in the manual.
5. Do not operate your vehicle if it is not functioning properly.
6. Do not connect any electrical or mechanical device to the scooter.  
Failure to obey this instruction may result in injury and will void the warranty.

## **Use While Under the Influence of Medication or Alcohol**

1. Check with your physician if you are taking any medication that may affect your ability to operate your powered scooter safely.
2. Do not operate your scooter while you are under the influence of alcohol as this may impair your ability to operate your power scooter in a safe manner.

## **Environment Condition**

### **Rain, Sleet and Snow**

If exposed to water, your power scooter is susceptible to damage to electronic or mechanical components. Water can cause electronic malfunction or promote premature corrosion of electrical components and frame.

## **Warranty**

For valid warranty claims E-Wheels will, at their discretion, replace/repair/refund items mutually agreed to be defective.

E-Wheels warranty as following:

1. Frame: (2) Year limited warranty
2. Electronic component: (1) Year limited warranty
3. Controllers: (3) Year limited warranty
4. Batteries: Not warranted
5. Consumables: Wheel Tires, arm pads and seat cushions: Not warranted
6. Labor costs are NOT covered by warranty

Any damage or defect of any nature occurring from the misuse of the product is not to be covered. The warranty is to start from the date of arrival of our products.

## Seat Adjustment

1. Locate forward/reverse seat push knob located under the seat



Forward/Reverse knob

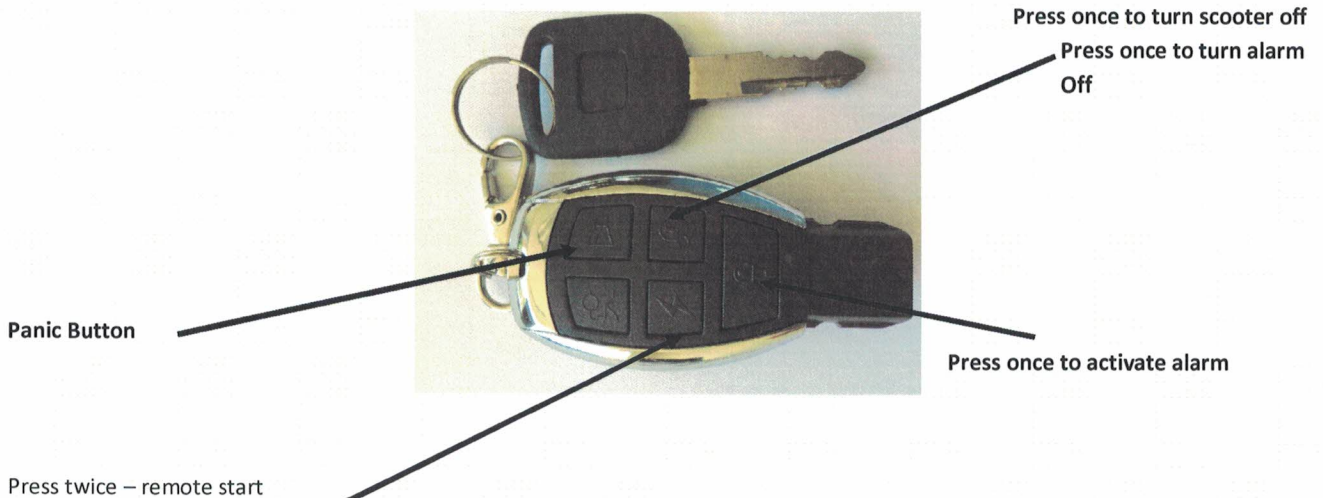
2. Seat arm rest can be in an upright position or a down position.

## Trunk

To open trunk simply insert ignition key while turning the key counter clockwise, place your hand on the seat back and pull seat forward. You must keep key turned while pulling seat forward and back. When turning the key counter clockwise, you may feel some resistance. Do not push the key in, simply turn counter clockwise and gently turn through any resistance.



## Key Fob



## Clock Adjustment

Press the “reset button” and this function will change from hours to minutes. Once at the desired location press the “select” button to change the digits.

Once the digit is changed simply press “reset” button once again and the function will change to the next digit in line. Simply repeat the process or desired settings.

## Emergency Brake

To Set: Push down on the pedal while pulling up on the emergency brake to engage the brake. The pedal will stay down.

To Release the Brake: Hold the Brake Release handle, pushing the button in while pulling up and twisting the handle clockwise. This will release the emergency/parking brake.

## Batteries and Charger

We recommend that you use deep-cycle batteries that are sealed and maintenance free for your power scooter. Both are lead acid (SLA) and gel cell are Deep cycle batteries that are similar in performance. Deep-cycle batteries are specifically designed to provide power, drain down, and then accept a relatively quick charge. Lead acid batteries should be charged as often as possible.

Specification of the battery that we recommend:

Type: Deep Cycle Sealed lead acid or gel cell

Size: 20 AH

Voltage: 12 V Each (5) total

Amp Hours: 80 Amp Hours

Depending on the use, terrain and driving conditions, the batteries will provide a range of 42 miles of travel. However, if the power scooter is not in use we recommend that the batteries be charged periodically.

Note:

- Do not use any automotive batteries, they are not designed to handle a long, deep discharge and are unsafe for use in power scooter.
- The useful life of a battery is quite often a reflection of the care it receives.
- Always charge your batteries in well ventilated areas
- The charger is intended for indoor use only.
- For maximum performance, it is recommended that you replace both batteries at the same time if the batteries are weak.
- If the vehicle will not be used for a long period of time. Arrange to have batteries recharged at least once every month to avoid deterioration of the batteries.

Recharge Battery only when the key is in off position and when indicator is showing low status this confirms battery needs recharge.

## Charger Use

1. Plug charger into Electric wall outlet
2. Insert charger port into scooter charging plug which is located on the front/side of scooter main body directly under seat.
3. Red charger light indicates scooter is charging
4. Green charger light indicated scooter is fully charged.





## EMC Statements

This portion of the content will provide the user with basic information that describes the problems with EMI, known sources of EMI, protective measures either to lessen the possibility or exposure or to minimize the degree of exposure, and suggested action should unexpected or erratic movement occur.

Caution: It is very important that you read this information regarding the possible effects of electromagnetic interference on your electric scooter.

■ **ELECTROMAGNETIC INTERFERENCE (EMI) FROM RADIO WAVE SOURCES** Electric vehicle may be susceptible to electromagnetic interference (EMI), which is interfering electromagnetic energy (EM) 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 vehicle to release its brakes, move by itself, or move in unintended directions. It can also permanently damage the powered vehicle's control system. The intensity of the interfering EM energy can be measured in volts per meter (V/m). Each powered vehicle can resist EMI up to certain intensity. This is called its "immunity level". The higher the immunity level the greater the protection. At this time, current technology is capable of achieving at least a 20 V/m immunity level, which would provide useful protection from the more common sources of radiated EMI.

This powered vehicle model as shipped, with no further modification, has an immunity level of 20 V/m without any accessories.

There are a number of sources of relatively intense electromagnetic fields in the everyday environment. Some of these sources are obvious and easy to avoid. Others are not apparent and exposure is unavoidable. However, we believe that by following the warning listed below, your risk to EMI will be minimized.

The sources of radiated EMI can be broadly classified into three types:

1. Hand-held portable transceivers (transmitter-receivers with the antenna mounted directly on the transmitting unit.

Examples include: citizens band (CB) radios, “walkie talkie”, security, fire, and police transceivers, cellular telephones and other personal communication devices.

Note: some cellular telephones and similar transmit signal while they are ON, even when not being used; 24 Medium-range mobile transceivers, such as those used in police cars, fire trucks, ambulances and taxis. These usually have the antenna mounted on the outside of the vehicle; and

2. Long-range transmitters and transceivers, such as commercial broadcast Transmitter (radio and TV broadcast antenna towers) and amateur (HAM) radios.

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

#### ■ POWERED VEHICLE ELECTROMAGNETIC INTERFERENCE (EMI)

Because EM energy rapidly becomes more intense as one move closer to the transmitting antenna (source), the EM fields from hand-held radio wave sources (transceivers) are of special concern. It is possible to unintentionally bring high levels of EM energy closer to the powered vehicle’s vehicle movement and braking. Therefore, the warnings listed below are recommended to prevent possible interference with the control system of the powered vehicle control system while using these devices. This can affect powered

## ■ WARNINGS

Electromagnetic interference (EMI) from sources such as radio and TV stations, amateur radio (HAM) transmitters, two-way radios, and cellular phones can affect powered vehicles and motorized wheelchair. Following the warnings listed below should reduce the chance of unintended brake release or powered vehicle movement, which could result in serious injury.

1. Do not operate hand-held transceivers-receivers), such as citizens band (CB) radios, or turn ON personal communication devices, such as cellular phones, while the powered vehicle is turned ON;
2. Be aware of nearby transmitters, such as radio or TV stations, and try to avoid coming close to them;
3. If unintended movement or brake release occurs, turn the powered vehicle OFF as soon as it is safe;
4. Be aware that adding accessories or components, or modifying the powered vehicle, may make it more susceptible to EMI ( Note: There is no easy way to evaluated their effect on the overall immunity of the powered vehicle)
5. Report all incidents of unintended movement or brake release to the powered vehicle manufacturer, and note whether there is a source of EMI nearby,

## ■ IMPORTANT INFORMATION

1. 20 Volts per meter ( V/m) is a generally achievable and useful immunity level against EMI ( the higher the level, the greater the protection);
2. This product has an immunity level of 20 V/m without any accessories and connected to it.