



EMOTOR GROUP
www.emotorscrubber.com


OWNER'S MANUAL

GENERAL


Please read this Owner's Manual before operating your scooter for the first time. Improper use or unfamiliarity of the scooter may result in harm, injury, or traffic accidents.

This Owner's Manual includes operation instructions, assembly instructions, and best practices to ensure maximum use from your scooter.

The symbols used throughout this Owner's Manual are explained below. Read carefully, and fully understand the sections marked with these symbols:

 **WARNING** – Improper use could lead to death, serious injury, hazardous conditions, or product malfunction.

 **ATTENTION** – Improper use could lead to injury and/or damage to your scooter.

 **PROHIBITED!** These actions are prohibited. Prohibited actions should not be performed at any time or in any circumstances. Performing a prohibited action can cause personal injury and/or equipment damage.

This Owner's Manual includes a repair maintenance record chart and warranty. Please keep it in a safe place, or with the scooter.

This Owner's Manual is composed from the product design and specifications at the time of publication. As designs change, some illustrations and pictures in the manual may not correspond to the scooter that you purchased. We reserve the right to make design modifications.

This product has been designed to provide a comfortable and secure solution for individuals limited to a seated position who are capable of operating a scooter.



Do not operate your new mobility scooter for the first time without completely reading and understanding this owner's manual.

SAFETY

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

As you begin using your mobility 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 maneuver through doorways, on and off elevators, up and down ramps.

Fully charge the battery after every trip and prior to using the scooter. If you do not frequently use the scooter fully charge the batteries every two weeks to prevent battery failure.

If the battery gauge drops to red, charge the scooter as soon as possible. Completely discharging the batteries may damage the batteries, or shorten the expected life of the batteries.

Batteries contain lead and lead compounds. Wear proper safety attire when handling batteries.

Never reach, lean or bend when driving your scooter.

Below are some precautions, tips, and other safety considerations that will help you become accustomed to operating the Travel Scooter safely.

PRE-RIDE SAFETY CHECK

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

Perform the following inspections prior to using your Travel Scooter:

Check the condition of the tires. 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 brakes to ensure they operate properly.

Check the battery condition meter to ensure the batteries are fully charged.

Ensure the manual freewheel lever is in drive mode before sitting on scooter. If you discover a problem, please contact us.

YOUR MOBILITY SCOOTER


The mobility scooter consists of the following major components listed in the diagram below:



YOUR MOBILITY SCOOTER

Tiller Console:

The tiller console houses all controls needed to drive your mobility scooter, including the key switch, throttle control lever, horn button, speed adjustment dial, headlight switch, battery level indicator and troubleshooting LED indicator.

 **PROHIBITED!** Do not expose the tiller console to moisture. In the event that the tiller console does become exposed to moisture, do not attempt to operate your mobility scooter until the tiller console has dried thoroughly.



Horn Button

This button activates a warning horn. Use of the warning horn may prevent accidents or injury. Please note when you back off/backward, the scooter will alarm automatically.

YOUR MOBILITY SCOOTER

Key Switch

- Insert the key into the key switch this will turn on your mobility scooter.
- Pull the key to turn off your mobility scooter.

Although the key can be left in the key switch when the mobility scooter is turned off, we highly recommend removing it to prevent unauthorized use of your mobility scooter.

Battery Level Indicator

When the scooter is turned on, this meter indicates approximate battery level.

Speed Adjustment Dial

This dial allows you to preselect and limit your mobility scooter's top speed.

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

Throttle Control Lever

This lever allows you to control the forward and reverse speeds of your scooter up to the maximum speed you preset using the speed adjustment dial.

- To move Forward, use your right thumb to push the right side of the throttle control lever.
- To Reverse, use your left thumb to push the left side of the throttle control lever.

Headlight

When you put the key on the scooter, the headlight will be illustrated automatically.

Rear Components

The manual freewheel lever and anti-tip wheels are located on your mobility scooter as shown.



YOUR MOBILITY SCOOTER



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

Manual Freewheel Lever

If you need or want to push your mobility scooter manually, you can put it in freewheel mode.

1. Locate the manual freewheel lever (see the diagram above).
2. Push forward on the manual freewheel lever to disable the drive and brake systems. You may now push your mobility scooter.
3. Push the manual freewheel lever backwards to re-engage the drive and brake systems; this takes your mobility scooter out of freewheel mode.



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

- Disengage the drive motors only on a level surface.
- Ensure the key is removed from the key switch.
- Stand to the side of the scooter to engage or disengage freewheel mode. Never sit on a scooter to do this.
- After you have finished pushing your mobility scooter, always return it to the drive mode to lock the brakes.

Anti-Tip Wheels

The anti-tip wheels are an integral and important safety feature of your mobility scooter. They are bolted to the frame at the rear of the mobility scooter.



PROHIBITED! Do not remove the anti-tip wheels or modify your mobility scooter in any way.



WARNING! The anti-tip wheels may cause interference with the smooth transition of your mobility scooter when ascending or descending a curb.

Battery Pack

Your mobility scooter is equipped with an innovative, easy-to-remove battery pack. A handle on the top of the battery pack makes it easy to lift the pack off of the mobility scooter. The battery pack contains two rechargeable batteries, and the main circuit breaker.

ASSEMBLY & DISASSEMBLY

The following are the steps required to assemble your mobility scooter. Disassembly can be achieved by following all of the steps in the reverse order.

There are five main sections that need to be assembled:
Front frame, rear frame, battery box, seat post, and the seat.



ADJUSTING ANGLE OF TILLER

- *Loose the lock-nut (see fig.1)
- *Lift the tiller up until a proper angle for yourself
- Tighten the lock-nuts to fix the tiller.

ASSEMBLE THE SEAT SUPPORT

- *Insert the seat support into the seat tube located on the rear body (see fig.2)
- *Align the bolt hole
- *Insert the bolt into the hole

ASSEMBLY & DISASSEMBLY



Fig. 1



Fig. 2

BATTERY ASSEMBLY

Put the batteries into the battery tray (fig. 3) . Note that the electrode terminals on the batteries should be aligned with that on the rear body. Then, a battery platen on the rear body is turned by 90° to suppress the battery box, and then firmly tighten a knob on the platen (fig. 4)



Fig. 3



Fig. 4

! ATTENTION

1. Check and clean the electrodes and remove any foreign bodies on them that may cause poor electrical contact.
2. Incorrect placement of the batteries may cause the scooter unusable.

ASSEMBLY & DISASSEMBLY

SEAT ASSEMBLY

1. Put the seat onto the seat post (fig. 5).
2. Unlock the seat lock level, adjust the seat toward the front and the lock level will automatically lock the seat.
3. Assemble the left/right armrests respectively into the square tubes below the seat (see fig. 6).
4. Adjust the seat width between the armrests suitable for you, tighten the knob.

BASKET ASSEMBLY

1. Remove the two screws in the tiller (fig. 7).
2. Assemble the basket holder onto the tiller.
3. Assemble the basket into the holder.



Fig. 5



Fig. 6



Fig. 7



The socket of battery case is used to connect the charger. When the batteries are charged, this socket makes your scooter out of work.



ASSEMBLY & DISASSEMBLY

DISASSEMBLY PROCEDURES

1. Turn off power, lift the seat lock level up under the seat to unlock the seat.
2. Lift the seat up and remove it.
3. Lift the battery box up and remove it.
4. Loosen a nut on the battery connector and pull it out.
5. Lift the latch hook up by pulling its nylon cord to unlock the front and rear bodies of the scooter.
6. Lift up their junction between the front and rear bodies to release the latch hook.
7. Loosen the knob on the lower end of the tiller, and put the tiller down.



BATTERY AND CHARGING

Your mobility scooter requires two 12-volt batteries. The batteries are recharged by the off-board charger that is included with every Emotor mobility scooter.

- Charge your mobility scooter batteries for at least 6 to 8 hours prior to using it for the first time.
- Keep the batteries fully charged to keep your mobility scooter operating smoothly.
- We advise that the batteries should be charged for 6 to 8 hours every 2 weeks when the scooter is not being used.


Battery Level


The battery level indicator on the tiller console indicates the approximate strength of your batteries using a color code. From top to bottom, green indicates fully charged batteries, yellow a medium level, and red indicates that an immediate recharge is necessary. To ensure the highest accuracy, the battery indicator should be checked while operating your mobility scooter at full speed on a dry, level surface.


 **PROHIBITED!** Removal of grounding prong can create electrical hazards. If necessary, properly install an approved 3-prong adapter to an electrical outlet having 2-pronged plug access.


 **PROHIBITED!** Never use an extension cord to plug in your battery charger. Plug the charger directly into a properly wired standard electrical outlet.

 **PROHIBITED!** Do not allow unsupervised children to play near the mobility scooter while the batteries are charging. Do not charge the batteries while the mobility scooter is occupied.

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


 **WARNING!** Explosive gases may be generated while charging the batteries. Keep the mobility scooter and battery charger away from sources of ignition such as flames or sparks and provide adequate ventilation when charging the batteries.

 **WARNING!** Do not attempt to open the battery charger case without professional technicians. If the battery charger does not appear to be working correctly, contact your authorized provider.


 **WARNING!** Be aware that the battery charger case may become hot during charging. Avoid skin contact and do not place it on surfaces that may be affected by heat.


BATTERY AND CHARGING


 **WARNING!** Do not mix old and new batteries. Always replace both batteries at the same time.


 **WARNING!** Contact your provider if you have any questions regarding the batteries in your mobility scooter.


 **WARNING!** Do not replace the batteries while the mobility scooter is in-use or occupied.

 **WARNING!** The batteries on your mobility scooter should only be serviced or replaced by an authorized provider or a qualified technician.

 **PROHIBITED!** Keep tools and other metal objects away from battery terminals. Contact with tools can cause electrical shock.

 **WARNING!** Do not lift beyond your physical capability. Ask for assistance when necessary while disassembling or assembling your scooter.

 **WARNING!** Do not pull-on electrical harness wires. Always grasp the connector itself when disconnecting the harness to prevent wire damage.

 **WARNING!** To avoid confusion when replacing batteries, replace one battery at a time.

Battery Type	deep-cycle lead acid batteries
Size	152×99×96mm
Voltage	12V 12AH

BATTERY RANGE

There are many factors that affect the range of your batteries, including the surfaces, inclines, curves, or wind you encounter when operating your scooter. If not ideal conditions, all of these factors will reduce the travel time or distance between charges.

Note: The battery type may vary from different models. Please check the details on the shopping page.

If you need to buy new battery, please search on www.emotorscrubber.com to get more info. and competitive price.

SPECIFICATIONS

Overall Size	40.55 X 19.69 X 33.07 Inch (L*W*H)
Seat Size	13.78 X 15.75 X 20.47 Inch (L*W*H)
Armrest Height	8.27 Inch/210mm
Backrest Height	13 Inch/330mm
Battery Weight	20.94 LBS/9.5 KG
Scooter Weight	88.18 LBS/40 KG(without battery)
Max. Speed	≤ 3.73 MPH/6 KM/H
Braking Distance	≤ 1500mm on the flat
Min. Turning Radius	≤ 1200mm
Theoretical Range	≥ 12.43 Miles/20 KM
Static Stability	≥ 9°
Dynamic Stability	≥ 6°
Motor	24V 180W
Battery	2 Pieces 12V 12AH in a battery case
Max. Output Current of Controller	45A
Max. Output Current of Charger	2 A
Wheels	7.56 Inch/192mm,Inflate-free tires
Weight Capacity	265 LBS/120KG

OPERATION

After your scooter is assembled, and adjustments have been made you are now ready to operate your scooter. Refer to the tiller diagram in Section V PARTS for key functions.

The key switch applies power to the control system electronics, which in turn supplies power to the motors. Turn the key switch with the key inserted to turn on your scooter.



ATTENTION – Do not use the key switch to stop, or as a brake. Doing so may shorten the life of the drive components.



SUGGESTION – It is recommended you start at the slowest speed setting when familiarizing yourself with your scooter controls. Once you feel comfortable with the controls, and movement of the scooter you may then increase the speed.

Rotate the speed knob to the lowest speed setting. Engage the throttle, and begin steering to drive forward, backward, left or right. If you want to stop the scooter, release the throttle and it will automatically return to the center position to stop the unit. Once familiar with the controls rotate the speed knob to increase the top speed to a comfortable setting.

BATTERY MAINTENANCE & CHARGING HABITS

To ensure maximum life from your batteries, and continued use of your scooter please follow these charging guidelines based on your usage:



SUGGESTION – If you use your scooter on a daily basis, charge the batteries as soon as you are finished with the day's activities, and leave it on the charge until you are ready to use the following day.



SUGGESTION – If you use your scooter infrequently, charge the batteries once a week for 10 to 14 hours.



SUGGESTION – Anytime the battery pack is removed from the base of the scooter for charging or replacing batteries, **DO NOT** drop the battery pack onto the connection block. This may cause damage to your scooter.

OPERATION

COMFORT ADJUSTMENTS:

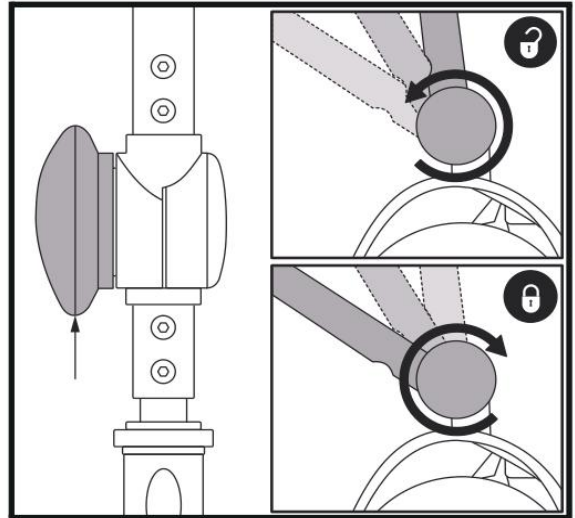
Tiller Angle Adjustment



WARNING! Remove the key from the key switch before adjusting the tiller or the seat. Never attempt to adjust the tiller or the seat while the mobility scooter is in motion.



WARNING! Prior to operating the scooter, push and pull on the tiller to ensure that the angle adjustment mechanism is secure. Inspect the tiller adjustment knob and the angle adjustment mechanism to ensure that they are fully engaged. If there is movement in the tiller, check to make sure that the tiller adjustment knob is fully tightened.



NOTE: In order to fully lower the tiller for disassembly, you must remove the seat first. Remove the seat by pulling it straight up and off of the mobility scooter. It is advised that you also remove the battery back during disassembly.

Swivel Seat Adjustment

The swivel seat lever, located on the right side of the seat base, secures the seat into several positions.

1. Pull up on the swivel seat lever to disengage the seat.
2. Rotate the seat to the desired position.
3. Release the lever to secure the seat into place.

Armrest Width Adjustment

The width of the armrest can be adjusted inward or outward.

1. Loosen the armrest adjustment knobs.
2. Slide the armrests in or out to the desired width.
3. Align the adjustment holes on the seat frame and armrest,
4. Tighten the armrest adjustment knobs.

NOTE: Lift armrests upward to aid in getting on and off your mobility scooter.

OPERATION










Seat Height Adjustment

The seat can be repositioned to different heights.

1. Use the attached ring to pull and remove the detent pin from the lower seat post.
2. Raise or lower the upper seat post to the desired seat height.
3. While holding the upper seat post at that height, align the adjustment holes of the upper and lower seat posts. Fully insert the detent pin.
4. Replace the seat.





NOTE: To adjust the seat height you may need to fully remove the seat.

MAINTENANCE SCHEDULE

INSPECTION	DAILY	WEEKLY	MONTHLY
Inspect the throttle is not bent when in neutral or rest position			
Inspect electrical harnesses are not frayed or have exposed wires			
Check the flat spots on tires			
Inspect seat, armrests, and front riggings for loose hardware or damage			
Inspect batteries are free from corrosion			
Check the brakes for functionality at lowest speed setting			
Check the anti-tip wheels for wear, and contact with the ground while at rest			
Check for proper front wheel alignment			
Check the entire scooter for loose hardware or changes in performance			

- The scooter shroud is made from durable ABS plastic with a high gloss finish. The scooter can be cleaned by using a damp towel.
- A light application of car wax may be used to help retain the shroud high gloss finish.
- Use a rubber conditioner on your scooter's tire sidewalls to help preserve them.
- Bumpers and trim pieces will benefit from an occasional application of rubber or vinyl conditioner.

OPERATION

-  **PROHIBITED!** Do not spray the entire scooter with water as this can permanently damage electrical components and upholstery. A light application of car wax will help the shroud retain its high gloss.
-  **PROHIBITED!** Do not apply rubber conditioner on the tire tread; this may cause the tires to become dangerously slippery.
-  **PROHIBITED!** Do not use a rubber or vinyl conditioner on the scooter's vinyl seat or floorboard, doing so may cause the surfaces to become dangerously slippery resulting in personal injury and/or damage to your scooter.
-  **ATTENTION!** Always protect batteries from freezing temperatures and never charge a battery in temperatures below freezing, doing so may result in damage to the battery and cause personal injury.

TROUBLESHOOTING

As with any electromechanical device, mobility scooters may occasionally require troubleshooting. Many issues can be resolved by referring to the options below.

If the mobility scooter will not move, please check the following:

- The battery box is fully inserted and correctly set in place.
- The brake release lever (free wheel lever) is in the drive position (rear position).
- The battery is fully charged.
- The key is in the ignition and turned on.

If the mobility scooter is charged but does not move, please check to ensure the following:

- The scooter may be in free wheel mode (brake release lever in forward position). If this is the case then remove your key from the ignition, push the free-wheel lever to the drive position (rear position), and reinsert your key into the ignition turning the scooter on.

If the battery does not hold a charge or the motor surges when the throttle is pressed, then:

- Fully charge your scooter's battery (see section "Batteries and Charging").
- Remove the battery case cover (Philips screws) and replace the fuse.
- A load test should be conducted on each battery.

OPERATION

If there seems to be no power, check to ensure the following:

- The battery box is correctly inserted and fully pressed into position. Check the male and female power plugs, making sure that they are not damaged or corroded.
- Verify that the battery is fully charged
- Push the main circuit breaker reset button (located on the battery).
- Remove the battery case cover (removing the Philips screws) and replace the fuse.

Self-Diagnostic Warning Light (Troubleshooting LED Indicator)

Your scooter is equipped with a Self-Diagnostic Warning Light, also called the Troubleshooting Indicator Light which is located on the control stack of your mobility scooter. To check the Self-Diagnostic Warning Light, turn on the key and count the number of flashes the Warning Light generates, refer to the chart below.

NOTE: If the indicator blinks continuously but the scooter is fully functional, this may indicate that the battery will soon need a full charge.

FLASH CODE	EXPLANATION
1	Battery needs charging or there is a poor battery connection. Charge the battery fully and check battery connections and then turn key switch off and on.
2	Poor Motor Connection. Check all connections between the motor and dash board controller and then turn key switch off and on.
3	Potential short circuit between motor and battery. Contact Emotor for assistance.
6	The scooter has entered drive inhibited mode, this may be a result of the battery charger still being connected to the scooter. Disconnect and turn the key off and on.
7	A throttle fault has occurred. Verify that the throttle is not stuck in forward/reverse and then turn the key switch off and on.
8	A controller fault has occurred. Check to see that all connections from the controller are secure and then turn the key switch off and on.
9	Free wheel lever (parking brake) is not in the drive position. Firmly push the lever to the rear position and then turn the key switch off and on.
10	An excessive amount of voltage has been applied to the controller. This is usually caused by a poor battery connection. Check connections and turn key off and on.

WARRANTY

If you purchased a warranty from an authorized dealer then contact your dealer directly for details and warranty service. If you purchased directly through Emotor our manufacturer's warranty below applies to your scooter and or electric wheelchair.

Warranty Registry

Emotor requires that customers register their product on www.emotorscrubber.com to claim the warranty.

How Do I Register My Warranty?

Click [Contact Us]. Fill out the form and sign up. A confirmation email will be sent.

Five-Year Limited Warranty:

Five years warranty on the front and rear main frame.

One-Year Limited Warranty:

One year warranty on drivetrain components, including: transaxle, motor, and electronic components. Emotor will replace the defective scooter and or electric wheelchair or mail replacement parts.

Customers will need to contact their own Repair/Service Technicians for any mechanical work to be done due to warranty issues. Emotor will provide warranty items directly to customer(s) or customers' Repair/Service Technicians.

If you would like a list of Repair/Service Technicians, which have been provided by Emotor, please email us at service@emotorscrubber.com

Returns to providers or Emotor without prior authorization, for any reason, will not be accepted.

Warranty Exclusions:

The following are wearable components and not warranted

- ABS plastic shrouds and footrest
- Brake pads
- Upholstery and seating
- Tire and Tubes
- Damage caused by improper operation, maintenance and storage
- Business or other non-normal use
- Cannot show the evidences of defective
- Motor brushes
- Tires

WARRANTY

Other Items Not Warranted:

Repairs and/or modifications made to any part of the scooter without specific and prior consent from Emotor, circumstances beyond control of Emotor, labor service calls, and shipping costs and other charges incurred for repair of the product.

There is no other express warranty. Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one (1) year from the date of original purchase and to the extent permitted by law. Any and all implied warranties are excluded.

This is the exclusive remedy. Liabilities for consequential damages under any and all warranties are excluded.

Some states do not allow limitations on how long an implied warranty lasts or exclusion of limitation of incidental or consequential damages.

This warranty gives you specific rights and you may also have other rights which vary from state to state.

All warranty claims must be accompanied by proof of purchase, order number and product serial number (if applicable). Please keep a copy of your original purchase receipt for reference.

EMOTOR GROUP



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