Mobi

Portable Folding Electric Wheelchair

Distributed by:

www.mobiwheelchair.com

Contents

Introduction 3
Specifications 4
Specification diagram. 5
Safe operation 6-7
Precautions 7
Maintenance 7-8
Electromagnetic interference 8
Install setup 8-9-10
Controller 11
Basic operation 12
Charging batteries 12-13-14
Free wheel mode 14
Transporting your Mobi 15
Troubleshooting 16
Diagnostics 17
Warranty 18

Introduction

Thank you for choosing our Mobi Wheelchair for your portable wheelchair transportation needs. The Mobi is what today's modern wheelchair needs to be, thanks to an aerospace aluminum-alloy frame it's lightweight, portable, and easy to operate.

It's important to read through this manual before operating your Mobi to become familiar with its features as well as it's limitations and safety information. You will find the operation and care of your Mobi simple and easy to follow, insuring your mobility freedom for years to come.

Please do not hesitate to reach out to us if you have any questions or challenges, our contact information can be found on the front and back cover of this manual.

Disclaimer: Mobi Wheelchair, its affiliates and partners cannot be held responsible for personal injury or property damage resulting from the unsafe, improper operation or maintenance of the Mobi portable electric wheelchair.

As part of our ongoing product improvement initiative, we reserve the right to change specifications and design without notice. As a result, there may be minor differences between your Mobi, it's accessories, photos, illustrations and instructions as shown in this manual.

Get to know your Mobi:

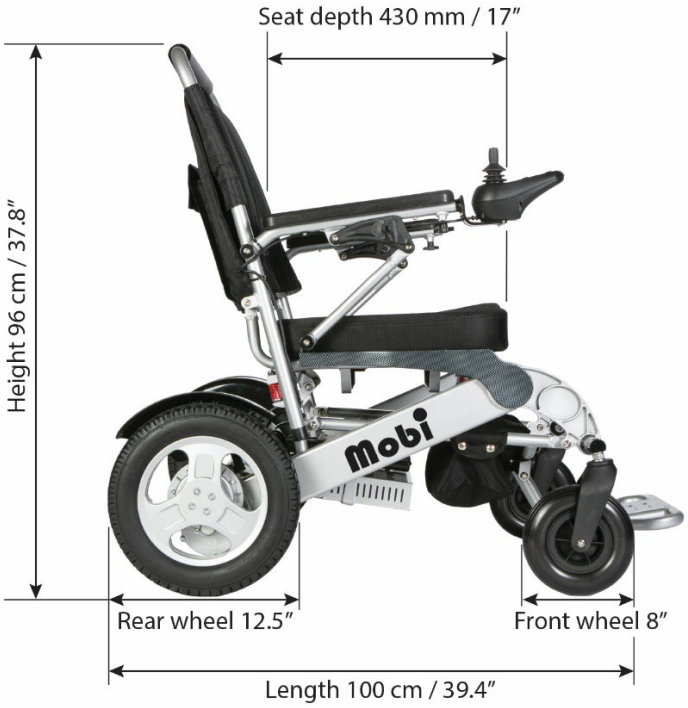
Specifications

Key Features:

1. 5-seconds folding or unfolding, easy to travel with.
2. Weighs 29.5 kg - 65 lbs. complete, or 26 kg - 57.2 lbs without batteries, controller or accessories.
3. Small volume after folding, only 650 x 350 x 750mm / 25.6" x 13.8" x 31.5"
4. Frame material: 7003 aerospace titanium-aluminum alloy.
5. Certificates: CE;FDA;ISO9001; ISO13485.
6. High efficiency brushless hub motor.
7. Bigger rear tires, stronger grade ability.

Product Description:	Folding portable electric wheelchair
Model:	Mobi
Chair frame material	Aluminum alloy
Unfolded dimension:	1005 x 650 x 950 mm - 39.6” x 25.6” x 37.4”
Folded dimension:	650 x 350 x 750 mm - 25.6” x 13.8” x 31.5”
Width between armrests:	508 mm / 20"
Seat width:	470 mm / 18.5"
Seat depth:	430 mm / 17"
Seat height:	Front 490 mm - 19.3" / Back 470 mm - 18.5"
Motor:	250 W X 2 brushless motor
Battery:	Lithium battery (6 Ah, DC 24 V) x2 pcs
Braking system:	Intelligent type electromagnetic brake
Charging time:	6-8 hours
Max Speed:	6 km/h - 3.7 mph
Driving Range:	25 km - 15.5 miles
Turning radius:	800 mm - 31.5”
Loading capacity:	160 kg - 352 lbs.
Climbing Slope:	12°
Front tires:	8” x 2 pcs
Rear tires:	12.5” x 2 pcs
Chair Net weight:	29.5 kg - 65 bs or 26 kg - 57.2 lbs no batteries, accessories
Package:	1 unit /carton
Carton size:	43 x 69 x 88 cm - 17” x 27” x 35”
Gross weight:	35 kg - 77 lbs.

Specification Diagram(s)



Safe Operation

We think this is the most important section of this manual; how to safely operate your new Mobi. Please review this section thoroughly and contact us if you have any questions.

◎ **General safety:**

a. Adjust your Mobi to your own personal comfort level, then you can sit back and relax.
b. Take your time to learn how your Mobi works in a private space before you begin operating around others.
c. Practice bending, reaching and transferring in and out of your Mobi.
d. Always be aware of your surroundings.
e. If you are unsure your Mobi can overcome an obstacle, try to find another way around it.
f. The Mobi is designed for a single user only; more than one user may result in personal injury to you and others.
g. Make sure that electronic components such as the control panel, battery charger, and other electronic controlled components stay dry. If these components come into contact with moisture, make sure everything is dry before turning the power on.
h. Mobi's seat is designed for comfort, not specifically for pressure relief; if you suffer from pressure sores, or if you are at risk that they will occur, please consult your doctor.

◎ **Before using your Mobi Portable Electric Wheelchair:**

(1) Make sure your Mobi is operating smoothly.

(2) Check for any unusual noises, vibration, or a change in the ease of use. If you detect a problem, use the tool kit to perform minor maintenance or get in touch with your Mobi dealer's service professional.

(3) Failing to maintain your Mobi could increase the risk of injury; get in touch with us or your local Mobi dealer so that we can help you find and correct the problem.

◎ **Getting into the Mobi:**

(1) Before sitting, make sure your Mobi is OFF, this will ensure the Mobi will not move unexpectedly if you happen to touch the joystick.

(2) Make sure the footrest is down.

(3) Once on board, make sure your feet are safely on the footrest.

◎ **Operating your Mobi:**

1. Be alert to the danger of motor vehicles on roads or in parking lots.
2. At night or when it is hard to see, use reflective tape on your Mobi.
3. The Mobi is designed for use on firm, even surfaces such as concrete, asphalt or indoor flooring.
4. Do not operate the Mobi in sand, loose soil or over rough terrain, this could damage wheels, bearings, axles or motors, or loosen fasteners.

◎ **Getting out of the Mobi:**

1. Make sure to bring the Mobi to a complete stop.
2. Turn off the Mobi to avoid accidentally touching the joystick and moving the wheelchair.
3. Raise the armrest so that you can conveniently exit the wheelchair.
4. Carefully and safely get out of the seat.

◎ **Weight limited- Do not exceed or the warranty will be void:**

1. Never exceed a total weight of 160 kg / 352 lbs. total for the rider plus items carried.
2. Exceeding the weight limit is likely to damage the seat, frame or fasteners and may cause severe injury to you or others.

◎ **When transporting the Mobi:**

1. Never sit in the Mobi while in a moving vehicle; an accident or sudden stop may cause you to be thrown from the electric wheelchair.
2. Never transport the Mobi in the front of seat of a vehicle where it may shift and interfere with the driver.
3. Always secure the Mobi so that it cannot roll or shift when being transported in a vehicle.
4. The Mobi is NOT approved to be used with any tie down system, which is generally used to transport a seated user in a powered wheelchair in a motor vehicle.

Precautions

CAUTION: OPERATE SAFELY

Do not operate the Mobi in water of any kind.
Do not operate the Mobi up or down staircase or escalators.

Do not operate the Mobi while on a moving vehicle such as a bus.
Do not lean your body to reach out of the Mobi, causing a balance issue.
Do not exceed the weight limited total of 160kg / 352 lbs for rider plus any items.

Do turn off the Mobi when exiting the chair for safety.
Do practice driving the Mobi in a private, enclosed area.

Be aware of local regulations regarding operating the Mobi on a public road.
Modifying your Mobi in any way may void all warranties.
Do not expose the Mobi or batteries to extreme temperatures.

Maintenance

It's important to perform regular maintenance of your Mobi for assured longevity and warranty eligibility. Even a little cleaning will go a long way to keeping your device looking and functioning like new.

Certified repair shops with trained professionals who specialize in electric wheelchairs and scooters will be qualified to perform the service and maintenance on your Mobi and should parts be required we have most in stock.

We recommend you inspect your Mobi two or three times per year in the following areas:

1. Frame: Tighten loose screws as necessary using the tool kit included with your Mobi.
2. Wheels: Make sure they rotate easily. Significant resistance may require new bearings.
3. Armrest: Look for excessive wear and tighten if loose.

Replacement of parts and major maintenance work should be done by a professional.

◎ Batteries

1. Use batteries that have been supplied by Mobi Wheelchair; our batteries are special lithium batteries designed specifically for use in the Mobi.
2. Read all battery instructions before attempting to change or charge batteries.
3. When you don't use your Mobi for long periods of time, please fully charge the battery at least once every month to avoid the battery dying from low to no charge.

◎ Fasteners

Many of the screws, bolts and nuts on the Mobi are special high-strength fasteners. Replacing these fasteners with non-approved ones may cause your Mobi to malfunction. Always use fasteners that have been supplied by Mobi Wheelchair. Using the tools included with your Mobi, tighten any fasteners that become loose as soon as possible.

◎ Change and Adjustments

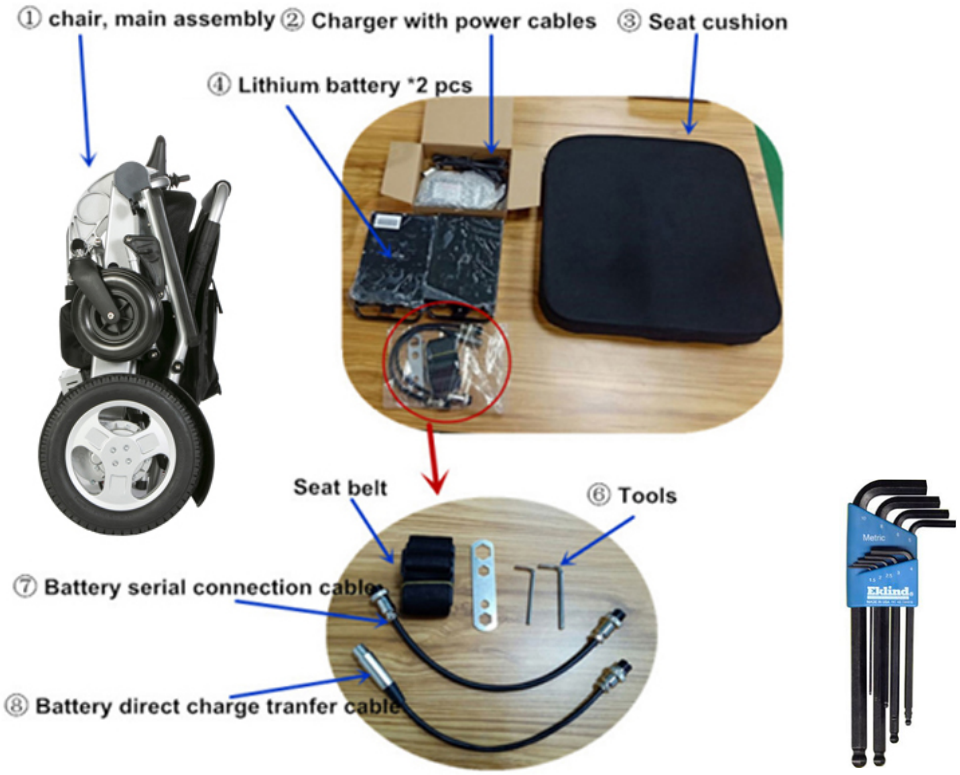
Never use non-Mobi parts or make changes to your Mobi unless authorized in writing by a representative from our company. Doing so will void the warranty and may create a safety hazard.

Electromagnetic Interference

Powered vehicles such as the Mobi may be susceptible to electromagnetic interference, which is interfering electromagnetic energy emitted from sources such as radio station, TV station, amateur radio transmitters, two-way radios, and cellular phones. The interference (from radio wave sources) can cause the Mobi to release its brakes, move by itself, or move in unintended directions. If your Mobi reacts unexpectedly in any way turn it off immediately.

Install Setup

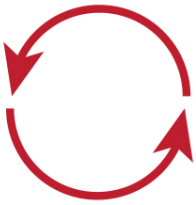
Your Mobi will arrive carefully packaged in a cardboard box. Open the top of the box then turn it on it's side for easier removal of the chair and it's contents, these are as shown below:



Please ensure the front wheel bolts are tight at all times using the supplied 10mm hex tool.

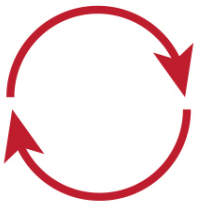
LEFT FRONT WHEEL

Tighten counter-clockwise



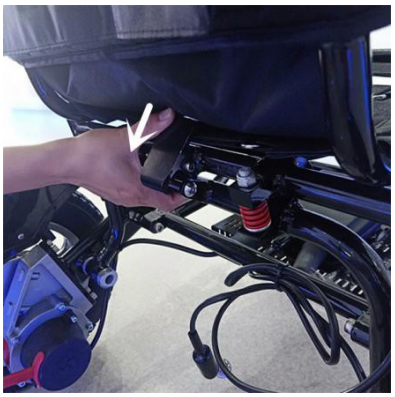
RIGHT FRONT WHEEL

Tighten clockwise



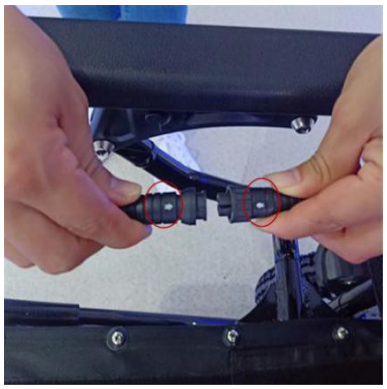
To unfold the Mobi, grasp the push bar and pull up while holding down on the seat to expand the chair.

Sit on the chair and lean backwards,or push back manually until you hear it click to make sure the clip located in the center below the seat to the rear of the Mobi has locked the seat into place. This step is very important!



1. Install the controller into the open slot on the arm of the chair, on the right side (if user needed, can change to left side). tighten knob located under the armrest to secure the controller in place.

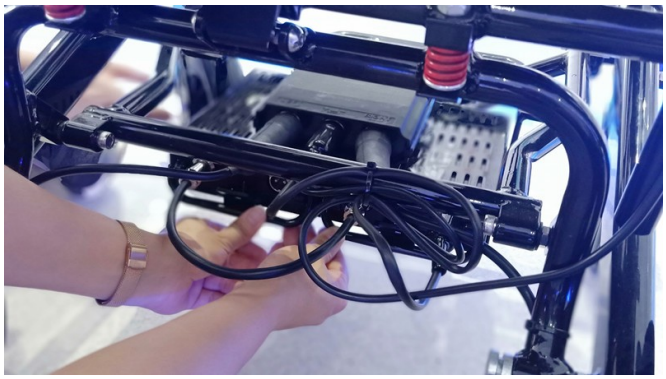
2. Connect the controller wire harness to the CPU wire harness. Take care to line up the pins properly as the arrow tips indicate, so that they do not get bent, broken or damaged.



3. Connect the batteries using the battery serial connection cable as shown below, then tighten.

4. Connect batteries to the CPU as shown below and tighten.

5. Place both batteries into the batteries' box under the seat, making sure the battery clips are locked.



Controller

The Mobi is equipped with a joystick style controller, it's functions are as shown:

◎ Controller and Driving Tips

1. Take some time in a safe, controlled environment to learn the operation of the controller, the different speeds and how they affect the maneuverability of the wheelchair.

2. When turning, reduce your speed, this will help you avoid any potential tilting or tipping of the wheelchair.

3. Be sure to adjust the speed depending on your environment.

4. To slow down, slowly bring the joystick back toward the neutral position.

5. To stop, just bring the joystick back to the neutral position, or simply let go of it, it will brake the chair automatically.

6. Use extra care when you drive the Mobi in reverse. You may lose control or fall if one of rear wheels hits an object.

7. When operating in reverse do so slowly and at an even speed.

8. Stop often and check to make sure your path is clear of obstacles.

Basic Operation

Before operating your Mobi, be sure to read all safety information and precautions included in this manual. Operate only in the appropriate environment after you have practiced driving the wheelchair and are accustomed to using the controller.

GET IN	Be certain that the power is OFF before sitting in the Mobi, with no lights on at the controller, make sure the footrest is down before getting into the wheelchair.
POWER ON	Press the Power button, you will ear a beep and a light will indicate that power is on.
TURING &STEERING	Point the joystick to steer and turn left, right or go forward and backward.
STOPPING	Simply remove your hand from the joystick to stop.
POWER OFF	When stopping, it is advised that you power OFF the wheelchair to prevent accidents. Press the power button to turn off the wheelchair.
GET OUT	Make sure there is no light on the controller before getting off the wheelchair.

Charging Batteries

Your Mobi will arrive with fully charged batteries, which should last about 50 km / 31 miles under normal operating conditions. We recommend that you run the Mobi until the batteries indicate a low charge before recharging them in order to get the most out of the battery life. Charge your batteries every night so you can start every day with a full charge.

◎ **First charging method**

Charge both batteries at the same time via the controller charging port.

1. Turn the power off.
2. Plug in the charger to the controller port (see below), connecting the charger cable first, then connect to the power outlet.

3. Allow your wheelchair to charge for 6-8 hours or unitl the light on the charger turns green, which means your batteries are fully charged.

4. Should you require more information on the lights and what they mean, please look on the back of the charger.

◎ secondary charging method:

You have the option of charging the batteries individually.

1. Turn off the main power.
2. Flip open the charger port protector on the front of battery.
3. Use the secondary charger pigtail to adapt the battery charger to plug into the battery directly.

◎ More information on the Mobi batteries...

1. The Mobi comes with two charged 24V 6AH lithium batteries.
2. Charge the batteries for 3-4 hours for each battery.
3. Turn the main unit's power off while charging.
4. Do not leave children unsupervised near the power wheelchair while it is charging.
5. Do not attempt to open the battery housing.
6. Red means the power is on and the unit is charging; green means the unit is fully charged.

Note: this information is also located on the back of the charger. When the battery is fully charged, remove the cable, then disconnect the DC charging connector and unplug the power.

The average time taken to re-charge workable batteries will vary from 2 to 8 hours depending on the level of usage. Do not charge more than 8 hours.

If you do not operate the Mobi for a month, we recommend that you charge the battery for 6-8 hours before use.

Over current protection is included and will shut off the current to the batteries if triggered, shutting the charger off to protect the motor and preventing the batteries from over-charging.

The life cycle of a lithium battery is measured in charging cycles with an average maximum of 500 charge cycles.

Check the battery indicator light daily if you use the Mobi frequently.

Do not use any battery chargers that have not been certified by Mobi Wheelchair.

If damaged, do not handle the battery without protective gloves and eyewear.

If the battery needs to be disposed of, locate the nearest hazardous materials disposal facility, and call them for instructions.

Before storing your Mobi for long periods of time, take these steps to maintain the battery:

Fully charge the battery before storing.

Remove the battery from the wheelchair.

Store the battery in a room temperature environment that is kept dry.

Avoid temperature extremes and do not allow the battery to freeze.

Do not attempt to charge your battery if it is frozen from extreme weather conditions, instead first allow it to thaw for several hours.

Do not attempt to charge your battery if it is frozen from extreme weather conditions, instead first allow it to thaw for several hours.

Free Wheel Mode

In order to have a care giver push the power wheelchair, it must be put in Free Wheel Mode. This mode disengages the drive mechanism to the wheels, making them free to push manually. We recommend that you turn off the power of wheelchair when in this mode, both for safety and to save battery power.

1. To put the Mobi in Free Wheel Mode, come to a full stop and turn OFF the power on the controller.
2. Push down on the two red levers located on each rear wheel as shown:

Transporting Your Mobi

To transport your Mobi, it is advised that you fold it up following the procedures below.

Note: Never transport the power wheelchair in a tie up system (electric mode), as Mobi is not compatible with them. Never sit in the wheelchair to be transported in moving vehicle. Do not place the folded power wheelchair in the front seat with driver where it could move and slide.

1. Turn OFF the power from the controller.
2. Remove seat cushion.
3. Press down the backrest and flip the back safety latch down to unlock the frame.

4. Fold the wheelchair.
5. When folded, the seat cross bar can be used to move the wheelchair easily.

Troubleshooting

The following represents the most common questions asked about the Mobi with regard to everyday use; check this helpful guide or the operator's manual for more information if you have a question about using your power wheelchair.

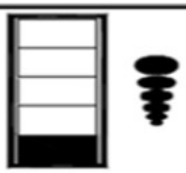
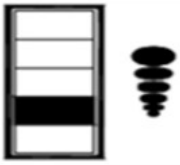
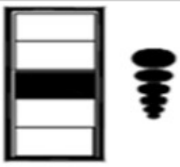
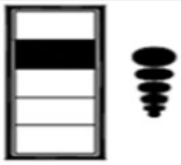
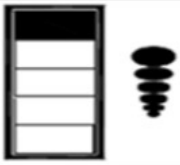
Question	Possible Causes	Answer
Why is there No Power to the wheelchair?	1. Controller system power is not connected. 2. Controller system CPU and joystick are not connected. 3. Battery power is too low.	1. Connect the battery. 2. Ensure all connections between joystick, CPU and battery are securely tightened. 3. Charge the battery.
Why is the wheelchair noisy or vibrating when turning?	1. Speed is set too low. 2. Motor is damaged.	1. Raise the speed. At low speeds, the motor may sound or feel strained. 2. Replace the motor.
Why can't I charge the battery?	1. Charger light does not turn on. 2. Charger light is always green. 3. Charging time is stopped before full charge is complete.	1. Replace the charger. 2. Battery is not connected, or may need to be replaced. 3. Capacity of battery as decrease over time. This is normal.
Why can't I connect the controller?	1. Connector pins (male) on the controller have become bent and misaligned with connector holes (female) on the CPU connector.	1. Using a small tool, carefully straighten the connector pins (male) on the controller to align with holes (female) on the CPU connector.

Diagnostics

Your controller has an indicator light that, during normal operation, is a steady GREEN. This light also functions as a diagnostic tool by flashing in patterns that indicate problems. It is important to pay attention to these diagnostics in case the power wheelchair must be put out of use for safety reasons until maintenance can be performed.

If the indicator light indicates a fault, turn off the power and then turn on power again. If the fault is not released after turning on power again, the indicator repeats this error message. Please refer to the fault information diagnosis table to help you find possible problems and corresponding solutions.

If the above method still does not help you troubleshoot, please contact your dealer. When communicating with the dealer, provide the specific problems in details as much as possible.

Diagnostic Code (left side – speed indicator light)	Diagnosis Description	Trouble Shooting
1 	Battery Empty	Charge the battery immediately.
2 	Joystick malfunction	Will likely require Joystick replacement. Call for service.
3 	Wheelchair is charging	Unplug charging cable to use wheelchair.
4 	Motor connection damaged	Will likely require motor or cable replacement. Call for service.
5 	Brake is not connected or damaged	Make sure the chair is not in freewheel mode (push red levers to power mode). If error continues, call for service.

Warranty

The purchaser of this product is entitled to a limited warranty as offered by our company, and its affiliates on the following components and with the following time frames:

※ Chair frame: 3 years

※ Motors: 1 year

※ Controller and CPU system: 1 year

※ Battery: 6 months

※ Wear parts: 3 months

Includes tires, seat and back rest, armrests, and support straps.

This warranty is valid for the replacement of dysfunctional parts only. Any parts under warranty will be replaced and shipped to your door. Any service and labor fees, if applicable, to replace parts under warranty must be paid for by the owner.

Due to its straightforward design, most parts can be easily exchanged by the owner without a professional service tech required. However, it is always recommended you seek professional help for maintenance and service, to make sure the work is done properly.

The warranty does not cover:

1. Products damaged by user negligence.
2. products damaged accidentally.
3. Products damaged intentionally.
4. Products that have been subjected to negligence.
5. Products that have been subjected to abuse.
6. Products that have been improperly stored.
7. Products that have been improperly handled.
8. Products that have been improperly operated.
9. Products that have experienced general misuse.
10. Products that have been modified in an unauthorized, unapproved way.

Warranty is non-transferable and only valid for the original wheelchair purchaser.

Mobi Wheelchair

Exclusive North American Distributor:

My Scooter
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Medical Device Establishment Licence Number 11400
www.mobiwheelchair.com

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