

Electric Mobility Scooter Operation Instruction

Note: please read this handbook carefully before riding for first time! It contains important safety information.

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*** INSTRUCTIONS PERTAINING TO RISK OF FIRE or ELECTRIC SHOCK IMPORTANT SAFETY INSTRUCTIONS**

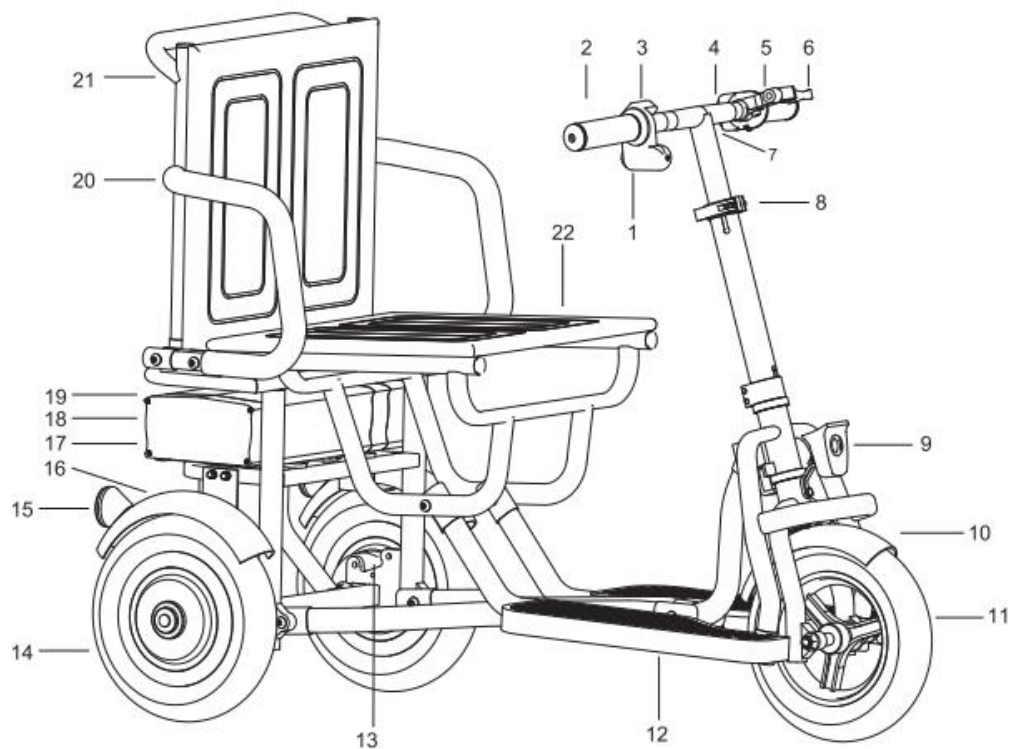


WARNING-When using this product, basic precautions should always be followed, including the following:

1. To reduce the risk of injury, close supervision is necessary when the product is used near children.
2. Do not put fingers or hands into the product.
3. Do not use this product if the flexible power cord or output cable is frayed, has broken insulation, or any other signs of damage.
4. This equipment is not intended to be used at ambient temperatures less than -4°F (-20°C) or above ambient temperatures of 113°F (45°C).
5. The battery is intended to be charged when the ambient temperature is between 32°F (0°C) and 113°F (45°C).
6. Prolonged Exposure to UV Rays, Rain and the Elements May Damage the Enclosure Materials, Store Indoors When Not in Use.
7. Devices are not intended for use at elevations greater than 2000 m above sea level. It is recommended to choose a route with a slope of no more than 15 degrees.
8. Under no circumstances should you ride the scooter when it is snowing, raining, or when the road surface is slippery, muddy, or icy. Riding the scooter in rainy or snowy weather may cause water to enter the scooter, leading to functional damage, fire, or even explosion risks due to battery dampness. Damages and losses caused by water ingress are not covered under the warranty.
9. Do not ride the scooter under the following circumstances, including but not limited to: severe weather, low visibility, dawn, dusk, heavy fog, thick smoke, nighttime, darkness, or when the rider is extremely fatigued. Each of the aforementioned situations will increase the risk of accidents.
10. Do not ride the scooter over obstacles (such as sand, gravel, or roadblocks). Doing so may cause loss of balance or traction, resulting in a fall. When you encounter steep slopes, uneven road sections, or other terrains you have not encountered before, please pay attention to your personal safety and do not take risks to ride through them.
11. Riding the scooter on roads, motor vehicle lanes, areas close to motor vehicles, steps and their surrounding areas, swimming pools, slippery waterlogged areas and other water-containing areas, uneven ground, loose-textured ground, and other areas that may affect normal riding or pose threats to riding safety is prohibited.

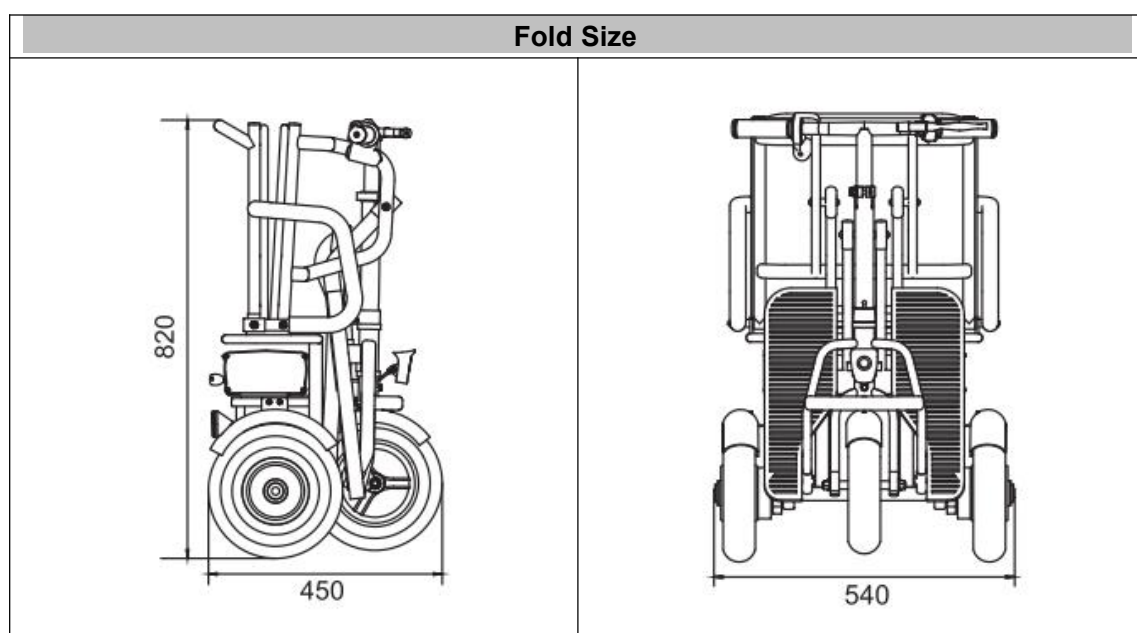
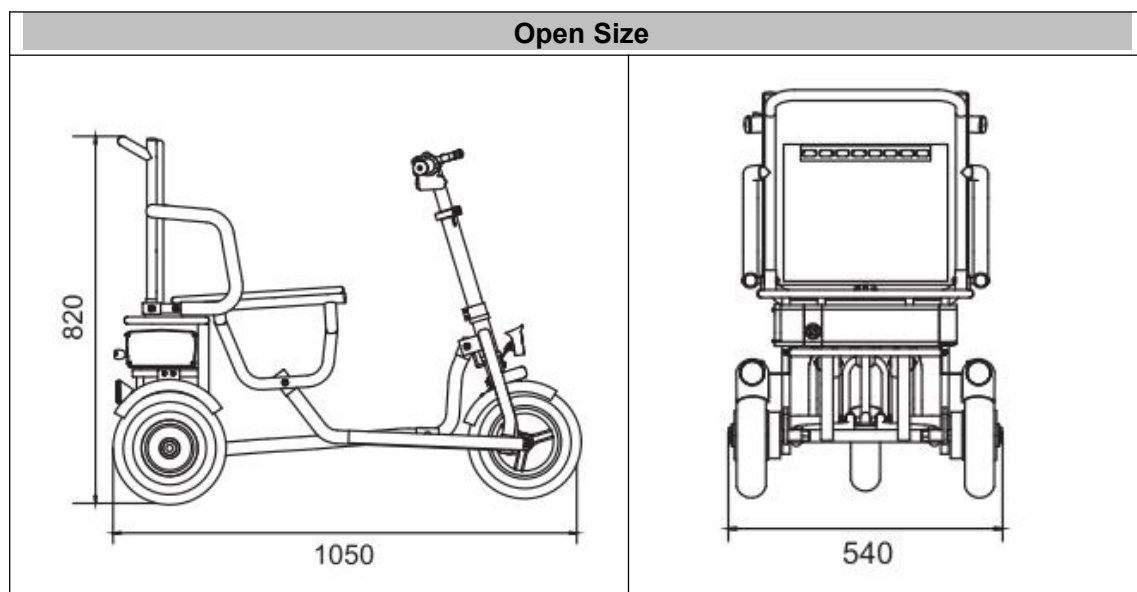
This product can not run on public or main roads, because this is dangerous and violates local traffic regulations, be sure to wear a helmet, goggle and protective clothing while riding.

1. Name of main part

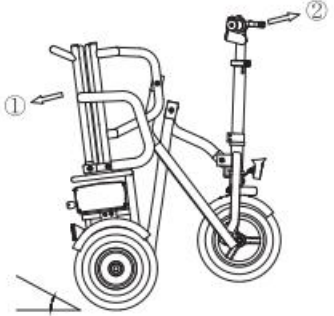
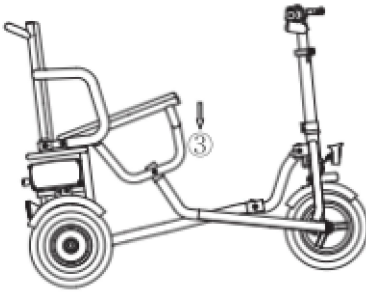


- | | |
|-------------------------------|---------------------|
| 1. Key switch | 12. Pedal plate |
| 2. Throttle | 13. Brake |
| 3. Display throttle | 14. Motor |
| 4. Handlebar | 15. Reflector/Light |
| 5. Forward and reverse switch | 16. Rear mudguard |
| 6. Brake | 17. Battery |
| 7. Horn/Bell | 18. Battery box |
| 8. Quick release | 19. Charge port |
| 9. Headlamp | 20. Armrest |
| 10. Front mudguard | 21. Backrest |
| 11. Front wheel | |

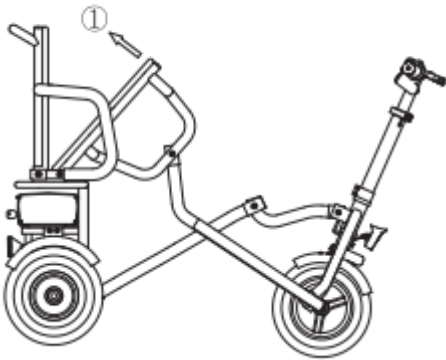
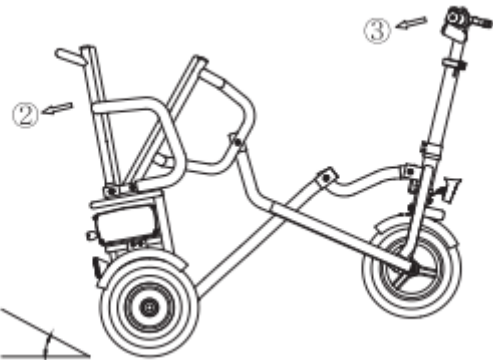
2. Opening and folding indication picture



Open indication Picture

1. Tilt the body 2. Forward the handlebar (direction as the pic)	3. Press down the seat (as the picture)
	

Close indication Picture

1. Lift the cushion up (direction as pic)	2. Tilt the body 3. Pull back the handlebar
	

Product Specification

	Items	Parameters
Product info	Name	Mobility scooter
	Model	M2
	Product Type	Off road only
	Net Weight	Approx. 28kg(62lbs)
Riding Requirements	Max. Load	300lbs(136kg)
	Recommended Age	13+
Vehicle Performance	Max. speed	25km/h(15.5mph)
	Traversable Terrain	Park, community, most flat roads or normal asphalt and tarmac roads
	Max. Slope	23%
Battery	Battery type	Lithium battery
	Nominal Voltage	48V
	Nominal Energy	480WH
	Nominal Capacity	10AH
Motor	Motor type-1	Hub motor
	Nominal Power	700W
	Motor type-2	Electromagnetic motor
	Nominal Power	350W
Charger	Model	FY1505462000
	Manufacturer	Shen Fuyuandian Power Co.,Ltd.
	Input Voltage	100-240V 50-60Hz
	Max. Output Voltage	54.6V
Tire	Tire Type	10 inch on road
Others	Frame Material	Aluminum Alloy
	Fender Material	Plastic
	Brake-1	Drum brake
	Brake-2	Electromagnetic brake

3.Installation Instructions

1. Open the box.

Remove the manual bag, charger box and front tire.



2.Unfold the trike while in the box to install the front wheel.

Grab the middle of the handlebar post.



Pull upward to unfold the scooter.



and push seat to help lock into place.



3.Install the front fender and headlight.

Remove both bolts that hold the fender and light.
1pc 5mm Hex wrench

Position the fender with long section forward.

Please note the direction.



Install bolt to secure the fender and headlight. 1pc 5mm Hex wrench	Attach headlight with upper bolt. 1pc 5mm Hex wrench
	
Tighten the horizontal bolt after setting the light position.	4. Install the front wheel.
1pc 3mm Hex wrench+8mm wrench	Remove the front axle from the manual bag. and remove the nut from the axle.
	
Slide the axle through the end of the fork and add one spacer.	Slide the axle through the center of the wheel.
	

Add the remaining spacer to the opposite side between the frame. **This will be a tight fit, so you may need to slightly wedge the frame open with a wrench.**



Attach the washer and axle nut.
2pcs 17mm open-end /crescent/box wrench



Remove the trike from the box.



5. Attach the rear fender and connect the tail light.

Leave the trike upward for easier fender assembly.



Locate both of the brake light wire connectors.
Line up the arrows when connecting.



Slide both bolts through the fender like pic .



If the trike is with turning light. Make sure connect female to male.

Tighten both nuts. It is better to tight by hand like pic.

if you need the tools, the tool is 1pc 4mm Hex wrench+
1pc 8mm wrench

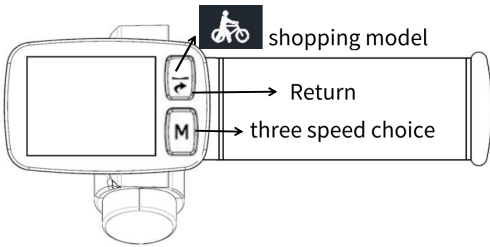
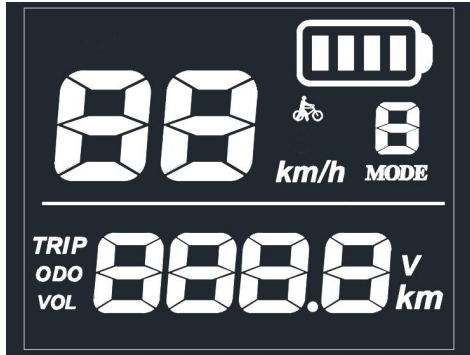


6. Tighten throttle.

The throttle is loose to prevent damage in shipping, tighten the allen bolt to secure. 1pc 3mm Hex wrench



4. Operating Instructions for no turning light version .

Throttle Button	Throttle Display
	
	Display originally display TRIP, press  to show TRIP - ODO - VOL one by one.

Switch	Brake Park
	
Thumb Throttle (optional accessory) If you need this part, contact the dealer to order parts.	When you press brake park, the scooter do not move when you get on or off the scooter.

How to turn on the scooter

1.Plug the battery cable into the side of the battery box.	2.Turn the key of the battery right---ON gear.
	
3.Turn the key of the throttle to right. The first position: turn on the electricity. The second position: turn the light.	4. Twist the throttle to drive. Scooter originally is set to the slow 1 speed (forward-5mph,reverse 2mph) Push M button to change the speeds. Press R button to reverse. Push  button to choose shopping model.

Error

Error code	Problem	How to solve
E002	Brake problem	try to roll the motor to check whether the brakes were adjusted too tight ,
E006	Battery is less power , or choose the wrong voltage.	charge the battery, Choose 48V voltage.
E007	Right motor problem	Replace right motor
E008	Throttle problem	Replace throttle
E009	Right controller problem	Replace right controller
E010	Throttle transmission failure	Usually replace controller or throttle,
E011	Controller transmission failure	Replace the throttle

5. Operating Instructions for turning light version.

Throttle Button	Throttle Display
	
press  for two seconds to turn on.	shortly press  to choose three speed.
shortly press  to show ODO and trip.	press  for two seconds choose shopping model
	shortly press  to reverse.

			
ON	Turn on the front & right light		Turn on left turn signal
OFF	Turn on the front & right light		Turn on right turn signal
	Turn on Emergency Flashers		Turn on the horn

How to turn on the scooter

1. Plug the battery cable into the side of the battery box.	2. Turn the key of the battery right---ON gear.
	
3. Press  button for two seconds till the display is open	
If your trike is hub motor.  4. Directly Press the thumb throttle to drive.	If your trike is with electromagnetic brake.    4. Shift into Drive gear first, Press the thumb throttle to drive.
Push  button to change the speeds. Push  button (until R on the screen) to Reverse . Push  button for two seconds (until bike signal on the screen) to get shopping model.	

Error

Code	Problem	How to solve
E-01	Motor problem	Change the motor
E-02	Throttle problem	Change the throttle
E-03	Controller problem	Change the controller
E-05	Battery is less voltage	Charge the battery
E-06	Throttle can not receive the signal from controller	Change the throttle/controller/wire harness, sometimes motor.
E-07	Controller can not receive the signal from throttle	Change wire harness or throttle,

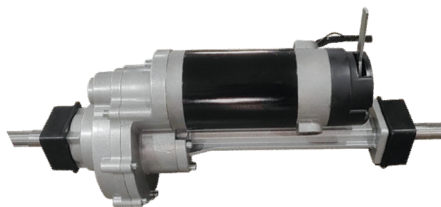
6. Operating Instructions for hub motor version

How to adjust brake



Tighten the screw, the brake will be tight.
Loosen the screw, the brake will be loose.

7. Operating Instructions for electromagnetic brake version



N gear : Move the trike by hand.
Can not drive without electromagnetic brake.



D gear: Drive with electromagnetic brake. The trike automatically stop once let off the throttle.

How to take off battery

1. Push and turn the key to UNLOCK position.	2. Pull out the battery.
	

How to charge the battery

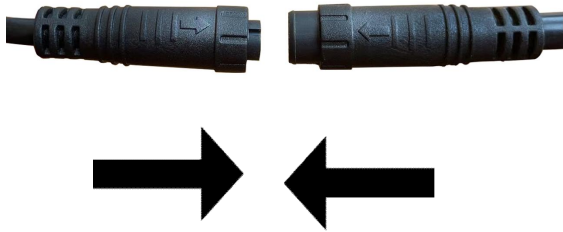
1 st way	2 nd way
Turn the key to off gear, Flip up the handle of battery, Find the charging port	Pull out the battery, Flip up the handle of battery, Find the charging port
	
If the charger display from red to green, the battery is fully charged.	

Airline approved battery (optional accessory)

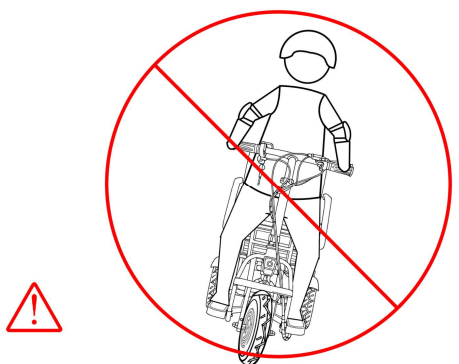
As long as you replace the battery, do not need to set any specification, plug the battery cable into the side of the battery box, you can directly use. Contact the dealer to order parts.

How to connect the wire

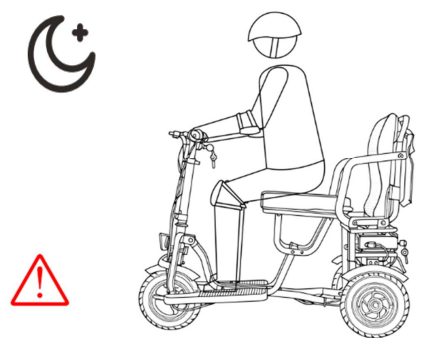
When the scooter display Error, please unplug every round connector on the scooter.

Find the arrow to connect the wire.	
	Make sure the metal pins are not bent , then plug back in. Make sure all wires are fully connected, it can be hard for some to push together.

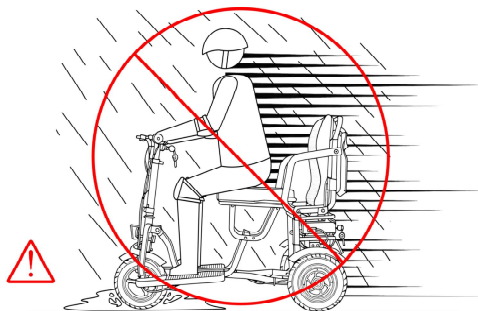
8. Warning



Do not speed up when making turns.
And Do not turn sharply



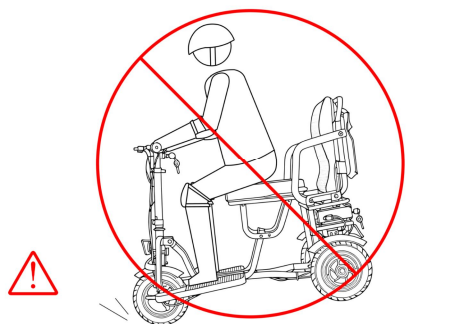
Take extra precautions when riding in the dark.



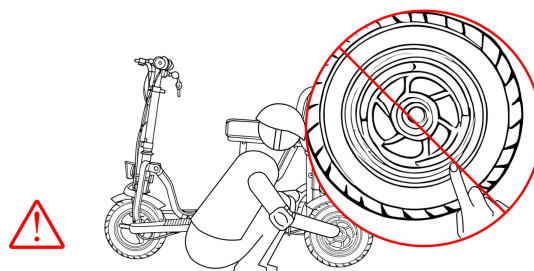
Slow down and be mindful in wet weather.



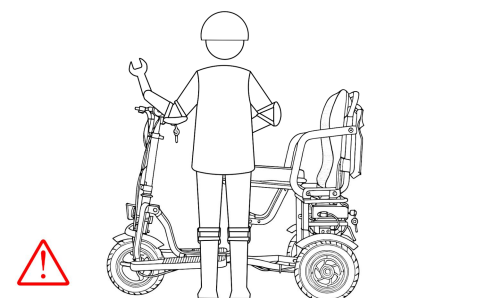
Vigilance is crucial, especially on rough roads.



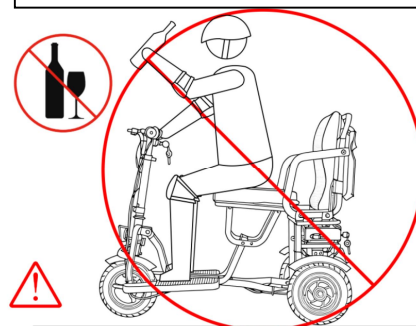
Do not do hard braking.



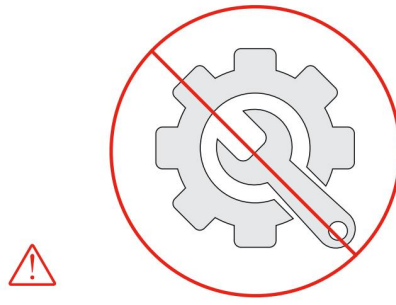
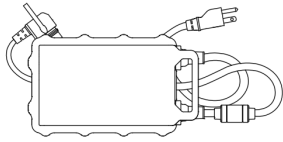
Do not touch the braking disc or hub motor after riding.



Check scooter's battery level, tire pressure, main parts and functions regularly.



Do not drive under the influence of alcohol or drugs.



Only use genuine charger in case of safety risks.

Do not modify or attempting to repair trike system except as indicated in the instructions for use and care.
If you need help, please contact official after-sales email:
sjgmobilityscooter@qq.com.

9. User maintenance Instructions

Recommend Cleaning Method

It is suggested to use wet cloth and non-corrosive degradable detergent to clean trike and wipe with a dry cloth.



Warning:

Do not clean the trike by high-pressure spray water gun, which may cause the short circuit of electronic control system or accelerate the corrosion of mechanical parts.

Do not clean with corrosive or volatile detergent.

Please check for dirt accumulation on charging port. You shall use a soft brush or low-pressure air to clean the inner part of trike.

Take the battery out before cleaning.

Power off the trike before cleaning.

Make sure all contacts and ports are dry and clean before connecting to charger.

Other Conditions

If you need help from maintenance engineer, please contact to official after-sales to know the nearest service center.

Prolonged Exposure to UV Rays, Rain and the Elements May Damage the Enclosure Materials, Store Indoors When Not in Use.

Please maintain your trike properly so as to prolong its serving life and achieve stable and safe riding. We suggests you do pre-riding and post-riding check regularly and read the Recommended Maintenance Schedule.

Pre-riding Checklist

Tasks	Tools	Operations
Check Tire Pressure	Tire Pressure Gauge	Check whether tire pressure is within the range specified by the manufacturer. The tire pressure range is marked on the sidewall of tire. You shall inflate or deflate tire when necessary
Check Braking System	N/A	Squeeze the left brake lever when pushing trike forward and rear two motor wheels must not move.  Warning: Do not tighten the brake screws any more after the brake is adjusted well. The motor will stop by the brake.
Check the cable connection	N/A	Check every single connector on the trike is connected well.
Check Wheel	N/A	Check whether every screw on the wheels is tightened and both wheels shall not be shaken.
Check Battery Level	N/A	Power on trike and make sure its battery level is sufficient enough for your trip.

Post-riding Checklist

Tasks	Tools	Operations
Check Tires and Wheels	Tire Pressure Gauge	Check for any debris, damage or crack.
Clean Frame	Clean Frame	Clean the E-bike's frame by a clean cloth and check for any damage or crack at the same time.
Wheel Flatness		Rotate the wheels one by one and check for any shake at the same time.
Charge Battery	Charger	Charge the trike in time and make sure its battery level is sufficient enough for your trip

Recommended Maintenance Schedule

Items	Operations	Weekly	Monthly	Every 6 months	Annually
Braking Pad	Check the wearing condition of braking pads.		√		More of an addition to the six-month schedule, the annual schedule involves everything from the six-month schedule along with a full breakdown of your trike, checking all the components are working as they should be, cleaning said components and putting your trike back together. For daily commuter and serious riders this should be completed
Screws of Frame	Check the torque of screws on the handlebar, frame and wheels.	√			
Frame	Check the frame for any damage.	√			
Braking System	Check the position of the braking cable and the tension of the braking line, then rotate the wheels and check for any jamming or abnormal noise. Make sure that the wheels can be stopped by squeezing brake levers.		√		
Wheels	Check the stability of wheel for any shake, jamming or runout if necessary		√		
Screws of Parts	Tighten all screws of the frame, rear carrier and mudguards and make sure all parts are installed well.		√		
Hub motor	Check for any jamming or abnormal noise when you accelerate and decelerate.		√		
Screws	Make sure all screws of			√	

of trike	E-bike are tightened.				annually. For weekend warriors or casual riders it is probably only necessary every 18 months to 2 years.
Lines	Check all lines and shells for any damage.			√	
Battery	The battery shall be replaced after 500 charging cycles			√	
Charger	The indicator is red when charging and is green when charging is completed. Charging condition is displayed on the display when charging.		√		
Control Buttons	Press or toggle the button for 3 times without failure.		√		
Throttle	trike accelerates normally after pressing throttle and the throttle will spring back after releasing the throttle with trike decelerating.		√		
Display	Display displays information well after powering on.		√		
Taillight and headlight	Light shall light up brightly		√		
Steering Angle	Test with left turns and right turns. No resistance or jamming when turning.				

Battery Maintenance

Low temperature may affect the battery performance and capacity. Here are some tips for you to better take care of the battery during cold weather. Enjoy safe ride in winter!

1. Battery Usage

Discharge and use in an environment temperature of -20~45°C.

Whenever possible, it is recommended to place the vehicle in an environment above 0°C in winter for optimal performance.

Keep away from heat sources, open flame, and flammable objects.

Avoid dropping or impacting the battery.

2. Battery Charging

Charging time should be less than 10 hours.

Charge the battery when the power is less than 20%.

Use the official original charger.

Charge the battery in an environment temperature of 0~45°C

3. Battery Storage

If the vehicle is not used for a long time, the battery should be stored with a power level higher than 80% and charged every 6 months.

Store in a cool and dry place, avoiding high temperatures and moisture.

4. Tire Pressure Check

Insufficient tire pressure will increase the vehicle's output and have a greater impact on range, so it is recommended to regularly check tire pressure and make sure that the front and rear tire pressure are at the recommended values.

5. Battery Safety

Trust the official source: There is a high risk of dismantling or modifying the battery wiring. If the battery shell is cracked, leaking, emitting an odor, deformed, or any other abnormal conditions are found, please stop using it immediately, keep a distance from the battery, and contact Mobility customer service.

Environmental Protection: Please dispose of waste batteries by contacting professional organizations.

Battery Charging Tips

1. Check the temperature.

Charge the trike at temperatures between -10 to 40°C . Otherwise, the scooter cannot be

charged.

2. Charge in suitable places.

Make sure that the charge port, charger, and socket are dry during charging to avoid security risks and malfunction. Charge the battery in a dry and well-ventilated place at a suitable temperature. Do not expose the charger to direct sunlight or high humidity.

3. Use the original charger.

Please use the original charger to ensure that the battery is charged safely and the vehicle functions normally.

4. Charge promptly.

Charge the battery as soon as possible when the power is less than 20%. If the vehicle is not used for extended periods, store the battery with a power level no less than 80% and charge it every 6 months to avoid over discharge and maintain battery life.

5. Avoid prolonged charging.

It is recommended that the charging time should be less than 10 hours.

6. Monitor charging status.

Make sure that the charger and trike are securely connected. Monitor charging status regularly. If any issues are found, stop charging and inspect the vehicle immediately.