

# Owner's Manual

## For Recumbent Trike (M-009E)



This manual contains important safety, operation and maintenance information.  
Read it before you take the first ride on your new bicycle, and keep it for reference.

Congratulations on being a new trike owner. We hope it brings you many years of enjoyment.

This manual has been written to help you set up and use your trike. Recumbent trike may be a little different from the cycles you are familiar with, so please take a moment to read through this document.

Throughout the manual, we have included some Tips, which have been learned from over 10 years of experience building trikes. They are well worth taking special note of. We hope you enjoy owning and riding the trikes.

## **General Instructions Before Riding**

1. To ensure the vehicle is functioning correctly, do a quick check of the trike's tires and check that the brakes are working. Your trike has been thoroughly checked by our engineers before delivery, but on the spot checks are equally important.
2. SAFETY NOTICE: If you twist the throttle before you are ready to go or while you are mounting the bike it may run away from you and could lead to an accident.
3. This trike may be ridden in wet conditions, but be sure to avoid soaking it during cleaning to avoid damaging any of the electric components.
4. The trike should not be left in strong, direct sunlight for long periods as some of the electric components may overheat.
5. Must abide by the same traffic rules and regulations as other motorists. Before taking your trike on a public road, be familiar with traffic rules and regulations and any special requirements for e-trike.
6. Never drink and ride. Alcohol slows reflexes and greatly limits your ability to operate a trike. Even a very small amount of alcohol will reduce your ability to operate a trike safely.
7. Frequently ride at economical speed will be great help on battery life and range. Especially at crowded city traffic.

## Learn Your Trike



- ① ON/OFF button for control panel
- ② Front right brake lever
- ③ Front shifter lever



- ④ Front right brake lever
- ⑤ Rear shifter lever
- ⑥ Shifter release button
- ⑦ Thumb Throttle



⑧ Rear packing brake lever



⑨ Battery lock

⑩ Charging port



⑪ Tail light button



⑫ Button for state of charge

# How To Operate

## 1. Adjust the front boom and seat in the right position.

## 2. Turn on the control panel.

Hold the ON/OFF button 2 seconds to turn on the control panel.

**Tip:** Please do not touch the throttle handle if you are not ready to go.

For more information about the setting and operating, please refer to the control panel manual.

## 3. Start the trike.

Pedal the trike or twist the throttle, the trike will go.

## 4. Gear changing.

As with any derailleur system you can only change gear when you are pedaling and moving forward. It is easier to change if you are not putting a lot of force on the pedals, particularly when changing from a high to a low gear. You should not try to change into the lowest gear (largest rear sprocket) unless you are on the middle or lowest (Smallest) chain wheel, because the chain will put strain on the rear derailleur.

### Tips:

1). Try to anticipate hills and change to a lower (easier) gear before you get onto the steep part of the hill hence avoiding changing gear under pressure.

2). Do not change gear when the trike is roll backwards, as the chain will jam in the rear derailleur and likely damage it.

## 6. Charging the battery.

The battery frame have five segments, each segment represent 20% battery capacity. When the capacity is full, the five segments are all light. In low battery, it indicates that the battery is severely low and needs to be recharged immediately.

When the charger is connected properly, A red light showing indicates charging, A green light showing indicates full charged or disconnect.

## 7. Tire pressure.

Typical tire pressure for the front tyres is about 240-310 KPa (35-45P.S.I.), rear tyre is about 280-450 KPa (40-65P.S.I.) . Do not inflate the tires more than the maximum pressure recommended of the tire sidewalls. You will need to experience a bit to find the tire pressure that suits you best.

## 8. How to fold the trike.

- 1). Make sure the battery is locked on the rear rack or remove the battery
- 2). Remove the seat and flagpole.
- 3). Open quick release at the folding hinge. Push the quick release bolt outward. When the clasp is out from the hole, slightly press down the frame to separate the folding hinge.



- 4). Carefully lift the rear part, turn it sideways and fold it.



## **Maintenance**

Good maintenance will play a major role in keeping your trike in good working condition and prolonging the life of the batteries. Please follow these suggestions:

- To prevent rust always keep your vehicle dry and clean.
- Regularly check the front and rear tires, suspension and body frame and all fasteners.
- When riding in rain do not go through deep puddles or muddy areas; excessive water will cause the motor and other electrical components to suffer undue harm.
- To prevent rust from forming on the trike, avoid parking your trike in high humidity and corrosive areas.
- To avoid damage to the electrical parts of this trike, especially the controller, do not park the trike in direct sunlight or in heavy rain.
- Due to the complexity of the electronic manufacture of this trike, customers should never attempt to take out any of the parts, or attempt major maintenance without consulting the supplier (this will invalidate the warranty).
- Never overload and ride the trike for an extended period of time, prolonged use with excessive weight could cause serious damage to the electronic and mechanical parts.
- Always check your trike and perform necessary routine maintenance - tires, brakes, nuts and bolts.

## **Caution For Battery**

- Do not short circuit positive and negative of the battery.
- Do not dismantle the battery.
- Do not place the battery under high temperature, such as heat, sunshine or close to fire.
- Do not place the battery in fluids, such as water, acid, alkaline or salt water.
- If stored for a long time, keep the battery cool and dry, and charge the battery for 2 hours every other 3 months.
- Always charge the battery with licensed charger for lithium ion or lithium polymer battery

# Battery Charger Troubleshooter

When there is a battery failure, there is a possibility it was caused by a bad battery charger.

When the charger is only plugged into the wall, it should show a green light. If there is no light showing, confirm that the outlet is good. If the outlet is good, it is very possible that the issue is with the battery charger, not the battery.

If the charger is plugged into the battery only, it should show a green light. If it does not show a green light, it is likely that the charger is not making contact with the battery. The most likely reason for this is a faulty fuse on the wiring harness. The fuse can blow out if there is a short in the charging system, or if the plug-in end of the wiring harness comes in contact with a battery terminal.

When the charger is plugged into both an electrical outlet and the battery, there should be a red light showing on the charger. A red light showing indicates that the charger is in contact with the battery and is actively charging the battery. Once the battery has reached a voltage level that is considered "fully charged", the red light changes to green. If you do not get a green led light on your charger, chances are that your battery is losing some voltage and is not charging fully. We recommend checking your battery with a volt meter, explained below. If after 24 hours the light has not changed to green there is no cause for alarm! Remember that when the light is red, the battery is being charged, and you will be able to use your system. After 24 hours or so, your battery is as charged as it is going to get, and if the light is still showing red you should disconnect the charger and go fishing.

If you are really concerned about your battery, consider getting a basic volt meter to check the voltage of your battery. If after 24 hours of charging your battery should have at least 36 volts and as long as it is over 36 volts it will work. If it is not at or above 36 volts you should consider replacing the battery.

If the charger is plugged into the wall and battery, and you get a blinking red light on the charger, it is very likely that the battery is faulty and should be replaced.

# Wiring Diagram

