

Introduction

Thank you for purchasing the BlueRev Trio. We take great pride in bringing you a quality product that will offer you years of enjoyment. The Trio is a one of a kind electric tricycle that has it all. With a powerful 500w front motor ona 24 inch wheel, the electric trike will get you moving places fast. This tricycle hA mplw eoom to carry your belongings or other cargo with a large rear and front carrier. The Trio comes equipped with a thumb throttle, pedal assist sensor, powerful hydraulic disc brakes and plenty more amazing features!

Using This Manual

This manual contains details of the product, its equipment, and information on its operation and maintenance. Please read it carefully and familiarize yourself with the e-bike **before** using it, in order to ensure safe use and prevent accidents. Be sure to retain this manual as reference to product knowledge and safe riding.

The manual includes many warnings and cautions concerning the safe operation and consequences if safe operation is not performed in respect to operation and maintenance of this product. All information in the manual should be *carefully* studied. If you have any questions, please contact us immediately. The notes/warnings/cautions included within the dotted red boxes as shown to the left should be given special care when reviewing **as they are directly related to hazardous or dangerous situations if not avoided**.

Because it is impossible to anticipate every situation or condition which can occur while riding, this manual makes no representation about the safe use of the bicycle under all conditions. There are risks associated with the use of this bicycle that cannot be predicted or avoided. These risks are the sole responsibility of the rider.

You should save this manual, along with any other documents that were included with your bicycle, for future reference. However, all content in this manual is subject to change or withdrawal without notice. The maunfacturer makes every effort to ensure the accuracy of its documentation and assumes no responsibility or liability for any errors or inaccuracies that may appear herein.

Parts Description



Daily Checks

To ensure your safety, make the following functional checks before driving:

- 1 Normal operation of the light, brake and power cut system.
- 2 Tire pressure (low pressure, will influence both autonomy and speed).
- 3 Wheel axle tightening.
- 4 Battery charging level.
- 5 Braking system adjustment and free operation.



Battery Charging

Charging tips

- The battery pack should be recharged after each use. There is no memory effect so you can charge the battery after short periods of use without damage.
- The battery can be recharged on or off the bike.
- Remove the battery by turning the key and than pulling forwards and upwards carefully until the pack lifts off.
- The charger will automatically stop once the battery pack is full.
- Always charge in dry conditions and indoors away from direct sunlight.
- Check charger cables, charger, and battery for damage before beginning each charge.

With the battery removed

- 1. When the battery is removed, do not touch the "+"and"-"contacts, especially with wet hands or metallic objects.
- 2. Do not recharge the battery in the inverted position. If you do, you drastically reduce it's lifespan.
- 3. Place the charger in a flat, secure place and connect the output plug to the socket in the battery box.
- 4. Then, connect the input plug (110V/220V terminal) to the power outlet, and the charging will start.
- 5. After the charging has finished, first, unplug the input plug (terminal 110V/220V), and then the output plug.

Additional Charging Info



When the battery is charging on the bike

- 1. Switch off the power. The battery can be charged on or off the bike.
- 2. Plug the output lead of the charger into the socket of the battery case.
- 3. Plug the AC power input plug into the 110/220 volt household power socket to start charging.
- 4. After charging unplug from the wall outlet first and than from the bike charger socket.

NOTE: Always charge your battery at temperatures between 10 and 26 degrees celsius.

Duration of charging

- 1. When the input and output terminal are connected, the red indication light of the charger will be turned on, showing that the power is being connected.
- 2. When the battery is charged for the first time, 8-10 hours should be spent for charging. When the yellow indication light of the charger is turned on, showing that the battery basically full and it will switch to trickle charge mode to ensure that over-charging will not occur, it takes 2-8 hours for normal charging.
- 3. This charger has a protection device for over-charging. Long time charging should not be more than 24 hours without affecting the life time of the battery.

About Charging

If charging with the battery removed

- 1. Keep the charger in a safe place, away from children.
- 2. Do not use the battery when not fully charged. That will decrease its lifespan.
- 3. Do not charge the battery with any other charger than the original one provided.
- 4. The charger works with 110/220V. Please do not open it.
- 5. Avoid charger contact with liquids and/or metal objects. Always be sure it is safely stored/placed so that it can not suffer damage from a fall/impact.
- 6. When in use, the charger should not be covered to prevent overheating, damage, or fire.
- 7. The charger is only for indoor use. Please keep it in dry and ventilated place.
- 8. If you notice a strange smell from the charger, or it is too hot, stop charging immediately, and contact the manufacturer.

Driving

Important tips while driving

- 1. In order to reduce consumption, increase autonomy, and extend the motors lifespan, use the pedals during the startups and climbs.
- 2. Do not twist the throttle too fast. The vehicle should be accelerated slowly, to reduce consumption and the risk of damage to the electrical system. It's better to use the pedals to avoid sudden stops and startups, rather than only using the throttle.
- 3. To increase security and reduce power consumption, is advised to avoid sudden stops and startups.
- 4. The vehicle controller has charge overload protection. If on overload, energy will be cut automatically and restored when it returns to normal.
- 5. While driving, avoid using the throttle as your brake, as it may damage the motor.
- 6. The maximum load is 300-440lbs. Avoid driving with overload.
- 7. Do not drive too fast.

Important tips when parking

- 1. Turn off the power when pushing the vehicle manually, to avoid accidental acceleration and accidents.
- 2. It is recommended to park your Trio indoors. Do not forget to switch off the power and remove the key.
- 3. In a public place, the e-bike must be parked in accordance with local traffic rules. Do not forget to switch off the power and remove the key.

How to start up the vehicle

- A. Press the battery ON/OFF button and battery power LED display to see the power capacity.
- B. Hold down center button (M) on the handlebar until LCD screen turns on.



Driving Range

Average distance from one charge:

Standard battery: 14.5 Ah - 60-90Km; Upgrade: 17.5 Ah - 80-120km; Upgrade: 21Ah - 100-140km

Conditions of testing: wind speed: level 2-3, normal atmosphere temperature: 25 degrees,

Load: 90kg; Atmospheric pressure: 3.5kg/cm; Flat concrete surface; Battery: full.

Power consumption of one time charge: ≤0.5kWh

Economical speed: 18km/h

Rated load: 90 kg Dead load: ≤30kg Variables such as the load haul, road conditions, road surface, times of start-up, times of stopping, wind direction, atmospheric temperature, tire pressure and correct way of charging all affect range.

Safety Notes

- 1.1 Change PAS (Pedal Assist Sensor) grade
 - Suppose it's PAS mode now,
 - shortly press , for PAS grade -1
 - , for PAS grade +1 shortly press
- 1.2 Shift the speed display
 - Long press + + , to shift the mode of speed unit to be 1.6 Parameters setting displayed (KM or Miles)
- 1.3 ON/OFF 6KM/H cruising, ON/OFF Headlight, Reset ODO
 - When e-bike stops, long press to enter 6KM/H cruising

mode. Stop pressing to exit the cruise mode;

Long press



to turn ON/OFF

Headlight;

At P16, long press



for 5 seconds to

reset ODO.

- 1.4 ON/OFF the screen
 - Long press M to turn off the screen.
- 1.5 Change data in multi-function Area Shortly press to change data.
- - Long press + to start setting parameters, such as wheel size (inch), and background lighting (Refer to P01-P16). On the setting interface, shortly press , or to plus/minus value. Values will be flashing after modifying,
 - choose the ones you want:
 - **A.** Long press to save the value, the shining would stop.
 - **B.** Short press to shift to the next parameter, and to save current values at the same time.
 - C. Press + to exit setting parameters and to save values. If not press these buttons, it would exit and save parameters modified automatically 10s later.

Additional setup notes

SW900 Computer Display

Three buttons on the left controls operation on the display



- Down arrow:

• M (multi-function center button): long hold will turn on the display. • Up arrow:

- 1. Battery level Displayed in blocks of five.
- 2. Odometer Total mileage driven on the vehicle.
- 3. Speed Current operating speed.
- 4. Current Power Mode (Eco, Standard, Power), depending on PAS
- **5. Pedal Assist Level (1 through 5)** the amount of assist you will receive, the greater the number, the greater the assist.
- **6. Current power in watts -** pay attention to this so you don't run the battery empty.

Press Up and Down arrows together to enter Program Modes:

- P01 LCD display Brightness (15 levels)
- P02 Units in Miles or Kilometers 0 is Kilometers; 1 is Miles.
- P03 Voltage of battery and motor that you are using, 48V is default.
- P04 Sleep time on display, choose between 0 and 60 minute. (0 means no sleep time)
- **P05** Pedal Assist Mode, **0** is for three grades of pedal; **1** is for five grades of pedal assist. five assist modes has a higher sensitivity to your pedal inputs versus the work outputs.
- P06 Wheel size, in this case set to 24" for Trio, important to correctly track speed and mileage.
- **P07** Speed measuring magnet, ranges from **1** to **100**. For the Trio it is set at factory for 500 watt motor, do not change this.
- P08 Speed limit. Important depending on where you live, to adhere to local e-bike bylaws.
 Europe 15mph; USA 28mph; Canada 20mph (33kph). Speed can be set from 0-100, so maximum speed can be achieved, but observe local regulations is recommended.

Basic Maintenance

To ensure safe riding conditions you must properly maintain your bike. You should follow the basic guidelines below and see your certified local bike shop seasonally to ensure your bike is safe to ride.

Routine checks

- 1. Ensure that wheels, frame, handlebars, stem and front fork are secure and in correct operation.
- 2. Tire pressure and condition of the tire.
- 3. Gearshift indexing and correct operation.
- 4. Bell and reflectors condition and correct operation.
- 5. Braking system for correct stopping and operation.
- 6. If you do not use the vehicle for long periods of time, charge the battery at least once a month, to avoid reducing its lifespan.

Maintenance and cleaning tips

- 1. Do not pressure wash to avoid getting water into the electrical system. **Only hand wash your bicycle**. Waterless bike wash is preferred.
- 2. Dirt on painted surfaces should be removed with a neutral, low acid product (such as mild dish soap). Then wipe clean with a dry cloth.
- 3. Lubricate the chain with bike specific chain lubes after washing.
- 4. Do not apply lubricant on the brake rotors, brake calipers, brake levers, rims, tires, battery or controller.

Troubleshooting

	Symptoms	Possible causes	Most common solutions
1	It doesn't work	Insufficient battery power Faulty connections Key in wrong position	Charge the battery Clean the battery connections Turn the key to the correct position
2	Irregular acceleration and/or reduced top speed	Insufficient battery power Loose throttle magnet Damaged throttle spring	Charge the battery Weld and adjust Contact authorized bike shop
3	When powered on, the motor doesn't respond	Loose wiring Loose throttle magnet Loose or damaged motor wiring plugs	Repair or reconnect Weld and adjust Contact authorized bike shop
4	Reduced range	 Low tire pressure Low or faulty battery charge Driving with too many hills, braking, departures, and/or excessive load Battery discharged for long period of time, without regular charges, aged or damaged 	Adjust the tire pressure Check the connections and/or fully charge the battery Help with the pedals Replace the battery Make a prolonged battery charge
5	The battery won't charge	Charger not well connected Battery cases fuse blown Battery wiring disconnected or damaged	Adjust the connections Replace the fuse Reconnect/repair the wiring
6	Drive wheel makes strange noises	Charger not well connected Battery cases fuse blown	Replace the motor bearings Check tension in spokes, true if necessary and/or replace the rim

For your safety, do regular maintenance and tightening checks. If you find any faults or damage, repair immediately.

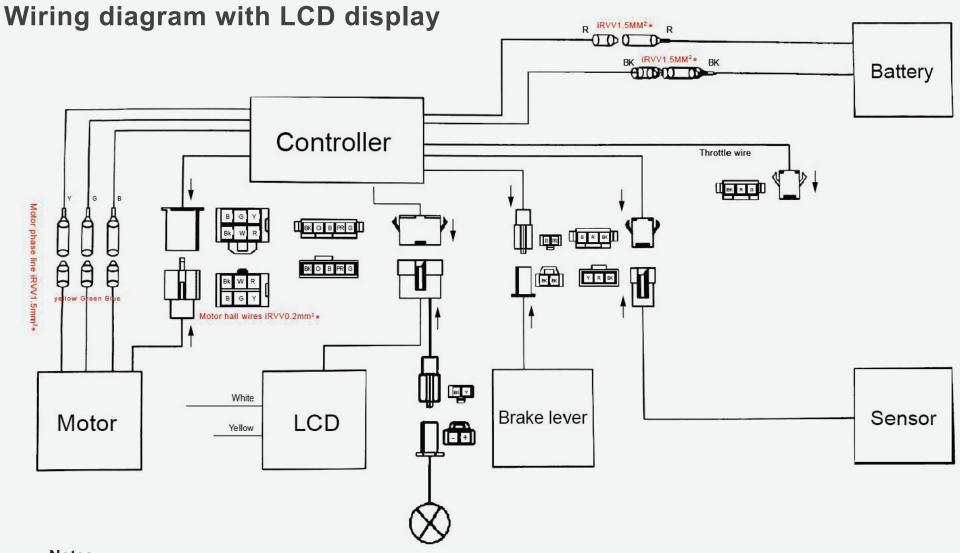
Recommended torque values for threaded fasteners

Number	Parts	Torque Required (nm)
1	Handlebar	18-20 NM
2	Handlebar and stem	18-20 NM
3	Saddle	18-20 NM
4	Seatpost	18-20 NM
5	Front wheel	16-25 NM
6	Rear wheel	25-35 NM
7	Bottom bracket-crank	35-55 NM

Minimum saddle height and the way to measure



To adjust seat height, use the quick release lever to set free the seat post and pull upwards or push downwards to reach desired height.



Notes:

- 1: Except label wire diameter, other=0.30mm2.
- 2: All connector terminal is electrolytic tinning.
- 3: All wires are national standard wires.

R=red, B=blue, Bk=black, G=green, Y=yellow, Pr=purple, W=white, Pink=pink, O=orange, Cam blue=Cambridge blue

Saving power and extending your range

The following scenarios will consumer extra battery power and shorten the range:

- Frequent braking and starting,
- · Riding uphill against a strong wind,
- Starting from a standstill and riding on rough or muddy roads,
- Carrying more than one person, or heavy loads

A few tips to prolong the battery life during these condition is as frequently.

- 1. Frequent braking: try to look ahead and coast rather than stop and go frequently.
- 2. Riding uphill or against a stiff wind: pedal to make supplement to the battery power.
- 3. When starting from a standstill-use the pedals to help bring you up to speed.
- 4. When the battery meter indicators the voltage is low: switch to manual power and avoid using the battery so you don't shorten the battery life.
- 5. If the battery is being stored: remove the battery from the bicycle and recharge it every month.

Useful tips

- 1. This user manual should be used only to reference use and functions but should not be used as a reference for inspection.
- 2. The images shown may differ from the actual model to technical improvements.
- 3. We reserve the right to change the model without prior notice due to technical improvements.
- 4. The vehicle has a top speed limiter. For safety purposes, its removal is **strictly prohibited**.
- 5. Ensure pre-ride checks are performed before each and every ride.
- 6. Only allow others to ride who have already been adequately trained on the use and operation of this product.

General precautions

Like any sport, bicycling involves risk of injury and damage. It is important know—and to practice—the rules of safe and responsible riding and proper bike maintenance. Proper use and maintenance of your bicycle reduces risk of injury. Your bicycle is designed for use by persons 16 years old and above.

Riders must have the physical coordination, reaction time and mental capability to ride and manage traffic, road conditions, sudden situations and also respect the laws governing bicycle use where they ride, regardless of age.

If you have an impairment or disability such as a visual impairment, hearing impairment, physical impairment, cognitive/language impairment, or a seizure disorder, consult your physician before riding any bicycle.

A note for parents and guardians

Note on Helmets

Make sure that you always wear an approved bicycle helmet when riding. Also make sure that you understand that a bicycle helmet is for bicycling only, and must be removed when not riding. A helmet must not be worn while playing, in play areas, on playground equipment, while climbing trees, or at any time while not riding a bicycle. Failure to follow this warning could result in serious injury or death. Do not let a child younger than 16 years old ride the bicycle.

Additional notes for parents

As a parent or guardian, you are responsible for the activities and safety of your child. This includes making sure that the bicycle is properly fitted to the child; that it is in good and safe operating condition; that you and your child understand the safe operation of the bicycle; and that you and your child have learned, understand and obey vehicle, bicycle and traffic laws, but also the common sense rules of safe and responsible bicycling. As a parent, you should read this manual, as well as review its warnings and the bicycle functions and operating procedures.

Safety notes before first use

All users must read this manual before first use. Ensure that you comprehend with all instruction and safety notes.

Ensure the bikes fits you properly before first use. You may lose control or fall if your bike is too big or too small.

Always wear an approved bicycle helmet while using this product and ensure that the helmet manufacturers instructions for fit and care followed.

Ensure correct tightening and setup is performed on your bicycle before first use and checked regularly.

It is your responsibility to familiarize yourself with laws and requirements for the operation of this product in the area(s) where you ride.

Additional safety notes

components or becoming seriously injured or killed.

Ensure handlebar and grips are not damaged and improperly installed. Loose or damaged grips can cause you to lose control and fall. Failure to wear a helmet when riding may result in serious injury or death.

Do not use this product with standard bicycle trailers, stands, or vehicle bicycle racks. Contact the manufacturer to check if your equipment will work with the bicycle.

Off-road riding requires close attention and specific skills and present variable conditions and hazards which accompany the conditions. Wear appropriate safety gear and do not ride alone in remote areas.

Take extra care while riding in wet conditions. Feet or hands can slip in wet conditions and lead to death or serious injury from a fall. Do not remove front or rear reflectors.

Lights should and must be used in addition to reflectors in most locations. You can purchase additional safety products like lights, mirrors and a bell or a horn.

Engaging in extreme riding is very dangerous and should be avoided. Although many articles/advertisements/catalogue depict riders in extreme terrain, this not recommended nor permitted and you can be seriously injured or killed if you perform extreme riding. Bicycles and bicycle parts have strength and integrity limitations and extreme riding should not be performed or you risk damaging the

Failure to confirm proper installation, comparability, proper operation, or maintenance of any component or accessory can result in serious injury or death.

After any incident you must consider your bike unsafe to ride until you consult with a certified bicycle service provider for a comprehensive inspection.

Failure to properly charge, store, or use your battery will void the warranty and may cause a hazardous situation.

Extreme care should be taken when using the pedal assistance sensor on this product. Ensure you understand and are prepared for the power assistance to prepare you as soon as pedaling is underway.

Additional safety notes

You should check the operation of the brake inhibitor switches before each side. The brake system is equipped with an inhibitor which shuts down power to the electric motor whenever the brakes are engaged. Check proper operation slowly while in a controlled environment by riding slowly with the motor engaged and applying the brake levers are engaged.

User must understand the operation of the twist throttle and pedal assist sensors before using, and take care in their usage in respect to traveling at speeds appropriate for usage area and user experience level. Always use the lowest assist level until you are comfortable with the bike and feel confident in controlling the power.

Any changes to the product not expressly approve by original manufacturer could void warranty and care while riding. Because electric bikes are heavier and faster than normal bicycles, they require extra caution and care while riding. To avoid shock never submerge the electrical components in water or subject to salt water environments.

