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## CARTON CONTENTS

- (x1) Kit Box
- (x2) Pedals
- (x1) Owner’s user Manual
- (x1) Tool Kit
- (x1) Battery Charger
- (x1) Reflector
- (x1) ECOTRIC Bike
- (x1) Saddle
- (x1) Lithium Ion Battery
- (x2) Keys
First of all, we would like to thank you for choosing the ECOTRIC electric bike. We believe this technology, with the benefits of electric propulsion, provides you with the perfect vehicle to increase your personal mobility.

Our brushless, electric hub motor allows you to run errands or commute to work while saving money on gas and reducing your environmental impact on our world. It also gives you the opportunity to pedal if you want to get exercise along the way.

All this and it is just plain fun to ride!

If you have any concerns, questions or suggestions about the ECOTRIC electric bike, please contact us at service@ecotric.com. Again, thanks for choosing ECOTRIC.

**PLEASE NOTE:**

**THIS MANUAL IS NOT INTENDED AS A DETAILED USER, SERVICE, REPAIR OR MAINTENANCE MANUAL. PLEASE SEEK ASSISTANCE FROM A QUALIFIED TECHNICIAN FOR SERVICE, REPAIRS OR MAINTENANCE.**
WARNING

Electric Bikes can be dangerous to use. The user or consumer assumes all risk of personal injuries, damage, or failure of the bicycle or system and all other losses or damages to themselves and others and to any property arising as a result of using the bicycle.

As with all mechanical components, the bicycle is subjected to wear and high stresses. Different materials and components may react to wear or stress fatigue in different ways. If the design life of a component has been exceeded, it may suddenly fail possibly causing injuries to the rider. Any form of crack, scratches or change of coloring in highly stressed areas indicate that the life of the component has been reached and it should be replaced.

For replacement parts, technical information and warranty assistance, please contact ECOTRIC BIKE at service@ecotric.com

YOUR INSURANCE POLICIES MAY NOT PROVIDE COVERAGE FOR ACCIDENTS INVOLVING THE USE OF THIS BICYCLE. TO DETERMINE IF COVERAGE IS PROVIDED YOU SHOULD CONTACT YOUR INSURANCE COMPANY OR AGENT.

DO NOT DISASSEMBLE, MODIFY OR REPLACE ELECTRICAL PARTS.
ASSEMBLY INSTRUCTIONS

For Handle bar

Your bike has been pre-assembled and requires only a few simple steps to get it ready for you to ride:

1. Carefully remove your bike from the carton and gently rest it in place with the kickstand down.
2. Remove all of the inside cardboard protection and bubble wrap on the bike.
3. Please locate and set aside the kit box containing the battery charger, pedals, and tool kit etc.
4. Place the handle bar on the stem, and tighten four bolts with 5mm hexagonal spanner (Figure 1), Position the handlebars to your desired comfort level.
5. Once the handlebars are aligned and the top bolt is slightly secured, firmly tighten the 2 side bolts on the stem with 6mm hexagonal spanner(Figure 3). After tightening the 2 side bolts, firmly tighten the top bolt with 5mm hexagonal spanner(Figure 2). After all 3 bolts have been securely fastened, make sure there is no play in the headset.

**WARNING:**
Do not over tighten the stem bolt. Over tightening the stem bolt can damage the steering system and cause loss of control.

![Figure 1](image1.png)

![Figure 2](image2.png)

![Figure 3](image3.png)
ASSEMBLY INSTRUCTIONS

For Folding Fatbike

Guide for folding:

Battery Operation For Folding Fatbike

- To remove or insert the battery
  The battery is fully inserted in the battery holder, to remove the battery, turn the key to the "Off" position and press the key to "UNLOCK" position, lift the battery vertical from top side of the battery, and remove or insert the battery. The key switch must be in the unlock position to slide the battery in and out.
- Power on/off switch (See Figure 1) to turn on/off the power. Switch to "on" position.
- Charging of battery
  To charge the battery, plug the charger into an AC outlet. Then plug the charger plug into the charging port on the bike(see Figure 2).
ASSEMBLY INSTRUCTIONS

For Front wheel

CAUTION: Your Electric bike is equipped with a front disk brake. Be careful not to damage the disk, caliper or brake pads when reinserting the disk into the caliper. Never activate a disk brake’s control lever unless the disk is correctly inserted in the caliper. Your bicycle may be equipped with a different securing method for the front wheel.

(1) With the steering fork facing forward, insert the wheel between the fork blades so that the axle seats firmly at the top of the fork dropouts. The cam lever should be on rider’s left side of the bicycle (fig. 4-1).
(2) While pushing the wheel firmly to the top of the slots in the fork dropouts, and at the same time centering the wheel rim in the fork: With a cam action system, move the cam lever upwards and swing it into the CLOSED position (fig. 4-1). The lever should now be parallel to the fork blade and curved toward the wheel. To apply enough clamping force, you should have to wrap your fingers around the fork blade for leverage, and the lever should leave a clear imprint in the palm of your hand.

NOTE: If, on a traditional cam action system, the lever cannot be pushed all the way to a position parallel to the fork blade, return the lever to the OPEN position. Then turn the tension adjusting nut counterclockwise one quarter turn and try tightening the lever again.

WARNING: Securely clamping the wheel with a cam action retention device takes considerable force. If you can fully close the cam lever without wrapping your fingers around the fork blade for leverage, the lever does not leave a clear imprint in the palm of your hand, and the serrations on the wheel fastener do not emboss the surfaces of the dropouts, the tension is insufficient. Open the lever; turn the tension adjusting nut clockwise a quarter turn; then try again. Spin the wheel to make sure that it is centered in the frame and clears the brake pads; then squeeze the brake lever and make sure that the brakes are operating correctly.

(3) Hex nuts or hex key bolts which are threaded on to or into the hub axle. (bolt-on wheel, fig. 4-4)
ASSEMBLY INSTRUCTIONS

For seat post and pedals

Make sure the seat is tight enough so that you can’t twist it out of alignment. Pull the seat clamp handle away from the seat post and slide the seat up or down to adjust it. Move the clamp handle inward toward the seat post so it is held tight by the clamp.

If necessary, tighten the clamp by twisting the clamp handle clockwise while in the unclamped position. Then, fold the handle in toward the seat post. This should require a fair amount of force to ensure the seat post is held tight. If necessary, the clamp can be further tightened with a 5 mm allen wrench while in the clamped position. Make sure the seat is not set with the vertical maximum height marks above the clamp.

Using the 15 mm wrench provided in the tool kit, attach and tighten the pedals. PLEASE NOTE – The pedals are marked “L” for Left and “R” for Right. The left pedal is attached by turning it counterclockwise and the right pedal is tightened by turning it clockwise. Make sure the pedals are tightly attached to the crank arms to prevent stripping.

TORQUE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handlebars</td>
<td>18N.m (Trail Tracker 12N.m)</td>
</tr>
<tr>
<td>Handlebar Stem</td>
<td>12N.m (Trail Tracker 8N.m)</td>
</tr>
<tr>
<td>Seatpost</td>
<td>Quick Release</td>
</tr>
<tr>
<td>Seat</td>
<td>18N.m</td>
</tr>
<tr>
<td>Front Wheel</td>
<td>18N.m (if Applicable)</td>
</tr>
<tr>
<td>Rear Wheel</td>
<td>50N.m or above</td>
</tr>
</tbody>
</table>
OPERATING PROCEDURES

For Flash

- Removable hidden lithium batteries on each side frame, already mounted with locks (Figure 1). The battery must be locked when riding or it may fall out. The keys for battery locks also operate power on/off switch which is located under the seat post (Figure 1).

- Charging of battery
Included with your new bike is a lithium ion battery, along with a charger, which plugs into a standard household electric receptacle. The battery may be charged while on the bike (Figure 3) or removed (Figure 1) and charged at a location away from the bike. The battery is easily removed by turning the key switch to the open/unlock position.
To charge the battery, plug the charger into an AC outlet. The LED indication light should be green showing the charger is working normally. Then plug the charger plug (Figure 2) into the charging port on the bike (Figure 3) or removed batteries (Figure 1) with a combination of cable divided into 2 cables.
OPERATING PROCEDURES

For Seagull

- To remove or insert the battery
  Removable battery under the seat. Lift up the seat by loose the seat clamp(Figure 1) to create room to insert and remove the battery, move the seat away from the bike, turn the key to the "Off" position and press the key to "UNLOCK" position, Lift up the hand shank on the top of the battery (Figure 2) and remove or insert the battery. The key switch must be in the unlock position to slide the battery in and out.

- Charging of battery
  To charge the battery, plug the charger into an AC outlet. The LED indication light should be green showing the charger is working normally. Then plug the charger plug(Figure 2) into the charging port on the bike(red arrow on Figure 3).
OPERATING PROCEDURES

For 26’ Fat bike

- To remove or insert the battery
  The battery is fully inserted in the battery holder, to remove the battery, turn the key from "off" position to "on" position (Figure 1), line up the grooves (Figure 2) on the top of the battery and remove or insert the battery.
- Power on/off switch (Figure 3) to turn on/off the power. Switch to on position, the power button light turns on also.
- Charging of battery
  To charge the battery, plug the charger into an AC outlet. Then plug the charger plug into the charging port on the bike (red arrow on Figure 4).

![Figure 1](image1.png)  ![Figure 2](image2.png)  ![Figure 3](image3.png)  ![Figure 4](image4.png)

For Folding Fatbike

- To remove or insert the battery
  The battery is fully inserted in the battery holder, to remove the battery, turn the key to the "Off" position and press the key to "UNLOCK" position, lift the battery vertical from top side of the battery, and remove or insert the battery. The key switch must be in the unlock position to slide the battery in and out.
- Power on/off switch (See the photo on page 6) to turn on/off the power. Switch to "on" position.
- Charging of battery
  To charge the battery, plug the charger into an AC outlet. Then plug the charger plug into the charging port on the bike (See the photo on page 6).
OPERATING PROCEDURES

For Tornado

• To remove or insert the battery
  The battery is fully inserted in the
  battery holder, to remove the battery,
  turn the key to the "Off" position and
  press the key to "UNLOCK" position, lift
  up the battery along with the holder and
  remove or insert the battery. The key
  switch must be in the unlock position to
  slide the battery in and out.
• Power on/off switch (See the
  photo) to turn on/off the power. Switch
  to "on" position.
• Charging of battery
  To charge the battery, plug the charger into an AC outlet. Then plug the charger plug
  into the charging port on the bike (see the photo).
BATTERY AND CHARGER CARE

The charger will charge a fully depleted battery in 5—6 hours. The indicator light on the charger will be red when battery is charging and will turn green when fully charged. Avoid subjecting the battery to high temperatures, such as directly under the sun, for prolonged periods of time.

Recharge the battery before it becomes completely discharged. Completely discharging will reduce the numbers of recharging cycles during the battery’s life and limit the capacity. Never store the battery in a discharged state. After much use, your battery’s charge-holding capacity will decrease. If you find that your battery does not hold a sufficient charge, you should contact us to order a replacement.

If the battery will not be used for an extended period of time, charge it fully and recharge it every 2 months. Store it in a cool, dry place. Your battery is engineered with precision for high capacity and a long, useful life. Do not use it to power other electrical devices. Improper use of the battery will damage the battery and shorten its useful life and may cause fire or an explosion. If you experience unusual sounds or odors coming from the charger or the battery, unplug charger immediately and contact customer service.

Recharge battery after every use.
- Do not disassemble or alter the battery or battery charger.
- Do not place the battery near fire or corrosive substances.
- Do not allow any liquids on or inside the battery/charger.
- Do not expose the battery/charger to extreme weather conditions.
- Do not operate the battery/charger if damaged.
- Recharge the battery only with a charger specified by the manufacturer.
- Do not use the battery/charger for any use other than its intended purpose.
- Only use the battery/charger on approved products.

Please instruct your children to keep away from the charging place.
SAFETY

Helmet:
Always wear an approved helmet while riding your bike and follow the helmet manufacturer’s instructions for it, use and care of your helmet. It is your responsibility to familiarize yourself with the laws of where you ride your Bike and to comply with all applicable laws.

Mechanical Safety Check:
Check the condition of your Bike before every ride. Make sure no nuts, bolts or fixing are loose, with particular attention to the axle nuts and handlebar stem. Make sure the tires are correctly inflated with the recommended air pressure that is located on the side wall of every tire. Check the brakes for proper operation. You must take your bike into be serviced and checked by a qualified bike mechanic before 100 miles (161 kilometers) of riding. This is a standard good practice for any new bike as cables will stretch and components will "bed in". The service must include spoke tensioning for both front and rear wheels.

Your First Ride:
When you buckle on your helmet and go for your first ride, be sure to pick an area away from cars, other cyclists, obstacles or other hazards in order to become familiar with the controls, features and performance of your new Bike.

Additional Passengers:
The Bike bikes are designed for one passenger only (excluding Tandems). DO NOT carry any additional passengers on the front or rear of the bike.

Weight Capacity:
Bike Electric Bikes are designed with a maximum weight capacity of 220 pounds for all models. The rear rack maximum weight capacity of a Bike (if applicable) is 25 pounds. Exceeding the maximum weight capacity can result in damage of the bike which can lead to serious injury.

Tires & Wheels
Make sure tires are correctly inflated. Check by putting one hand on the saddle, one on the intersection of the handlebars and stem, then bouncing your weight on the bike while looking at tire deflection. Compare what you see with how it looks when you know the tires are correctly inflated; and adjust if necessary. Tires in good shape? Spin each wheel slowly and look for cuts in the tread and sidewall. Replace damaged tires before riding the bike. Wheels true? Spin each wheel and check for brake clearance and side-to-side wobble. If a wheel wobbles side to side even slightly, or rubs against or hits the brake pads, take the bike to a qualified bike shop to have the wheel trued.
GENERAL WARNING

Like any sport, bicycling involves risk of injury and damage. By choosing to ride a bicycle, you assume the responsibility for that risk, so you need to know — and to practice — the rules of safe and responsible riding and of proper use and maintenance. Proper use and maintenance of your bicycle reduces risk of injury. Your electric bicycle is designed for use by persons 16 years old or older. 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 special note for parents

As a parent or guardian, you are responsible for the activities and safety of your child, and that includes making sure that the bicycle is properly fitted to the child; that it is in good repair and safe operating condition; that you and your child have learned and understand the safe operation of the bicycle; and that you and your child have learned, understand and obey not only the applicable local motor 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’s functions and operating procedures with your child, before letting your child ride the bicycle.

WARNING

Make sure that your child always wears an approved bicycle helmet when riding; but also make sure that your child understands 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.

Your electric bicycle is for use by persons 16 years old and older, only. Do not let a child younger than 16 years old ride the bicycle.
Meter Programming & Use

800 or 810 LED

Operations:
Press ON/FF to start the power:
- Press 6km/h to have cruise 6km/h speed automatic riding without pedals
- Press mode to select the pedal assistant power with pedals and throttle (Low-Med-High)
  Low=40% of max speed;
  Med=75% of max speed;
  High=100% of max speed
- L-H is indicating the battery power
1) Battery level: 5 levels, voltage interval could be customized
2) Speed: Average SPEED/MAX SPEED
3) Speed unit: Kmh/MPH
4) 6km mode
5) Assist level: actual assist level 0~5.
6) Head light icon: indicates when head light and back light are on
7) Distance: Trip/ODO
8) Driving Duration
9) Error code: “ERROR” and code when there is error

To turn the unit on, press and hold the “M” button to start the display. A long press again “M” will switch it off. The display switches off automatically if there is no activity for ten minutes (default).

Display setting:
- Long press up and M button to shift between Max speed→Average speed
- Short press M button to switch ODO/Trip/Driving Time/Error Code
- Short press up or down button to change assist level, default value is level 1
- Long press up button for 3 seconds turn on/off the head light when application
- Long press down button to enter/quit 6km/h mode, “walk” will show up on screen

Advanced setting
Long Press and hold the up and down button for seconds to enter the setup interface, short press up or down button to change the value, short press M button to save current value and switch to next parameter.
Backlight-P01, press up or down button to change the brightness (range is 1 to 3).

Speed unit-P02, press up or down button to change between MPH and KMH.

Voltage-P03, press up or down button to change the voltage 24v/36v/48v. Please don’t change the default value.

Sleep time interval setting-P04. Press up or down button to change the time, range from 0 to 60 minutes. Display will sleep and cut off power after no operation on system for the selected time, the default value is 5 minutes.

Assist level-P05. Press up or down button to change the level between 0 (max level=3) and 1 (max level=5).

Wheel size-P06. Press up or down button to change wheel size. Please don’t change the default value.

Speed limit-P07. Short press up or down button to set the speed limit from 15 to 45km/h

Reset all parameters-P11. Long press up button 5 seconds, when displays “ssss”, all parameters reset to default values (except for the ODO distance).

Error codes

When something goes wrong with system, an error code will flash on the display. Check details on attached list.

The motor will stop working in the event of an error. Only when the error is gone, will the motor work again.

<table>
<thead>
<tr>
<th>Error code</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Normal</td>
</tr>
<tr>
<td>2</td>
<td>Short circuit protection of motor</td>
</tr>
<tr>
<td>3</td>
<td>Controller error</td>
</tr>
<tr>
<td>4</td>
<td>Throttle error</td>
</tr>
<tr>
<td>5</td>
<td>Motor error</td>
</tr>
<tr>
<td>8</td>
<td>Low battery level</td>
</tr>
<tr>
<td>9</td>
<td>High battery level</td>
</tr>
<tr>
<td>10</td>
<td>Motor hall sensor error</td>
</tr>
<tr>
<td>30</td>
<td>UART receive error</td>
</tr>
</tbody>
</table>
Meter Programming & Use

S900 LCD

1. Presentation of screen

1) Speed: Average SPEED/MAX SPEED
2) Speed unit: Kmh/MPH
3) Battery level: 5 levels, voltage interval could be customized
4) Head light icon: indicates when head light and back light are on
5) Error code: “ERROR” and code when there is error
6) Assist level: actual assist level 0~5, 0 – no assist, 1- ECO, 2,3-STD, 4,5-POWER)
7) Distance: Trip/ODO
8) 6km mode

To turn the unit on, press and hold the “M” button to start the display. A long press again “M” will switch it off. The display switches off automatically if there is no activity for ten minutes (default).

Display setting:
- Short press M button to switch ODO/Trip.
- Short press up or down button to change assist level, default value is level 1
- Long press up button for 3 seconds turn on/off the head light when application
- Long press down button to enter/quit 6km/h mode, “walk” will show up on screen

Advanced setting

Long Press and hold the up and down button for seconds to enter the setup interface, short press up or down button to change the value, short press M button to save current value and switch to next parameter.
- Backlight-P01, press up or down button to change the brightness (range is 1 to 3)
- Speed unit-P02, press up or down button to change between MPH and KMH.
- Voltage-P03, press up or down button to change the voltage 24v/36v/48v. Please don’t change the default value.
Sleep time interval setting-P04. Press up or down button to change the time, range from 0 to 60 minutes. Display will sleep and cut off power after no operation on system for the selected time, the default value is 5 minutes.

- Assist level-P05. Press up or down button to change the level between 0(max level=3) and 1(max level=5) and 2(max level=9)
- Wheel size-P06. Press up or down button to change wheel size. **Please don’t change the default value.**
- Speed limit-P07. Short press up or down button to set the speed limit from 15 to 45km/h
- Reset all parameters-P11. Long press up button 5 seconds, when displays “ssss”, all parameters reset to default values (except for the ODO distance)

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When something goes wrong with system, an error code will flash on the display.
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</tbody>
</table>
TROUBLESHOOTING - A Quick Checklist

Here's a quick checklist for fault-finding if you should find yourself at the side of a road with a problem.
In many cases, reported faults or problems are a simple case of understanding the product better but unexpected problems can happen.

The following are some simple roadside assist tips for electrical problems:
- No meter power. Check the battery is charging and charged, check the battery connections, display connections, check the key switch. If none of the above it may be your control unit or display depending on the model.
- No throttle/pedal assistant power (meter on). This means your battery is probably fine and it is likely to be a connector. Check the return on your e-brakes, check connections to your motor, then connections to your interface (throttle) and sensors. If none of the above it may be the controller failure.
- Power cut-out. Check e-brake return, check battery contacts and if black check lock in tolerance, check connections. Before seeking help try to notice exactly when the cut-out occurs, i.e. on a long hill, on a short steep hill, how many miles from last charge, after a bump, immediately after stopping or slowing. This could be an issue with the motor.
- Battery not charging. Check the charger fuse, check the power supply. Turn off other appliances on the same power board, don’t use long extension cables.
- Battery cuts out, particularly under load. Check any connectors, check wiring between battery and motor. This could be an issue with the battery.
- Motor noise. Roll backwards to see if the same noise occurs, cycle without power to see if the same noise is still there; check connections especially if you have removed a component recently. Check for sources of friction behind the brake pads and around the wheel.
- Motor resistance. Ensure motor wheel is mounted correctly, check brakes are disengaging and set up correctly, check for sources of friction, disengage power and see if resistance persists, roll the bike backwards with the power on – you may have a sticky/rusty brake or hub especially if you’ve driven through flood water (not advised).
- Short riding distance. This could be an issue with Low tire pressure, Driving on many hills, headwind, braking, departures, and/or excessive load, Battery discharged for long period of time, without regular charges, aged or damaged.

Fault rates on ebikes are generally very low - about 1% over 12 months - that’s IF they are maintained well, are well built in the first place and are used as they were intended.
Simple Maintenance Tips for your Electric Bike

Having an electric bike that breaks down or isn't running smoothly is a real pain. Here are few simple things you can do to avoid this and keep it running smoother for longer.

Electric bikes are bicycles that have additional technology to provide pedal assistance. Because they tend to get used so much more, and at greater average speeds, maintenance is a critical factor in keeping them running smoothly.

You don't need to have a fancy workshop, just do these few simple things:

**Bicycle maintenance**
- Regularly check the major touch point bolts for tightness – handlebars, seat rails, wheels etc. If any of these come off while riding it can be dangerous! Riding with loose bolts can be an expensive and inconvenient repair.
- Lube your chain regularly
- Check tyre pressures at least once a week. Pump up to the recommended pressures if needed.
- Clean your ebike with a regular hose and / or bucket & brush. Avoid high pressure water systems as you don't want to get water in the electrics!

**Electrics maintenance**
There is very little to do in terms of electrics maintenance however the main thing is to take care! Particularly when you are moving your ebike in and out of cars, stairs or tricky storage places.

- **Wiring.** Be careful not to knock your wiring, particularly on things such as lights, motor cables near wheels, sensor cables etc
- **Batteries.** See our article on battery care and safety. Also take care sliding your battery in and out so you don’t bend any nodes on the battery plate.

The next best thing you can do for your ebike is to get it serviced regularly by a skilled mechanic - preferably one with experience working on electric bikes! Find or avoid problems before they happen.
WARRANTY INFORMATION

We strive to make sure our items are accurately described so that people are clearly aware in advance of what they are getting, and anyone who has any doubts or questions we ask that you please contact us before placing an order. Nevertheless, it happens often enough that goods need to get sent back here whether for refund, exchange, or warranty.

Warranty covers items that fail when used within their normal operating parameters.

**One Year Limited Warranty Battery/Charger**

Batteries and battery chargers have traditionally been our largest source of warranty support. Right now, we are trying to tackle this and are only selling quality lithium packs developed in partnership with Samsung or sinlion. The battery and charger warranty is 1 year, and it would cover things like:

- Faulty BMS circuits that trips below rated current or cause premature pack cutout
- Pack that delivers less than 80% of its nominal capacity at a 1C discharge rate
- Internal cell tab weld coming loose

Warranty does not cover:

- Lithium batteries that have self discharged below 2V/cell from being left on the shelf for an extended period of time
- Water damage, which does not affect the cells but can lead to unreliable BMS circuit behavior
- Lithium batteries are liable to self-discharge over time because the BMS circuit itself draws current from the battery pack. Although the amount of current is usually small (< 1mA typically) it is still enough to kill a battery in 1-2 months if it is stored in an initially flat state. If you plan to store a lithium battery, be sure to top it up with a charger at least once two months.

Often, we get issues that are wiring related, such as a fuse holder that starts to melt from being loose, or a connector that gets corroded. In these instances, we will send or replace just the wiring part.

**One Year Limited Warranty Motor/Controller**

This warranty covers material and manufacturing defects in the motor and controller itself, and not issues related to installation. For instance, the following items would not be covered by our motor warranty:

- Problems resulting from Axle Spin-out
- Water damage
- Overheating damage
- Broken Spokes

Examples of things that it would cover by motor warranty:

- Damaged sensors or gears in hub motor
- Damaged freewheel mechanism
- Sheared side covers
- Bad ball bearings
- Cracked spoke flange
Bad connector

Motor controllers have a 1 year warranty. Warranty only covers the controller when used with 36V or 48V battery packs with our own hub motors. Some examples of things that would be covered:

- Severed wire inside the controller enclosure
- Random shorted mosfet when not caused from an axle spinout

Things that are not covered:

- Controller that fails when used with 3rd party motor system
- Corrosion of connectors from water exposure
- Controllers that are modified for more than 60V

We can't really warranty controllers that are used with 3rd party motor systems. It is possible to have a hub with very low winding resistance (think short circuit) which would fry the controller mosfets when throttling from a stall, as none of the controllers have pulse-by-pulse current limiting to protect them in this situation.

6 months Limited Warranty Bicycle for other Components

Anything sold by us not included under motors, batteries, controllers, or charger is covered under 6 months warranty. This includes such items as fork, brake lever, display, throttles, freewheels and miscellaneous connectors/cables/tools. This warranty does not include water damage. These components therein are warranted to the original retail purchaser against manufacturing defects in materials and/or workmanship for a period of 6 months from the date of original retail purchase. We would not cover shipping the repaired or replacement part to the customer over 6 months warranty.

Returns

If you buy something and then change your mind and simply want to return it for a refund within 14 days of receiving it, then that is fine, make sure the bike in new condition and well packed, but depending on circumstances we may charge a 10% restocking fee. Shipping is not refundable, and you are also responsible for returning the item to us as per our RMA shipping guide further down. We don’t encourage either impulse purchasing or impulse refunds, so spend the time making sure you are getting suitable goods and be sure to email us before hand if you have any doubts.

Exchange

If you purchased something in error and need to exchange it for a different product or model within 30 days, then so long as the original model is in new and unused condition it is no problem to trade it in towards the desired part.

FAQ

I’m tech inclined and think I can fix it myself; does that void the warranty if I do?

No, we always like to work with and support customers who are resourceful enough to fix an issue on their own, and we will provide plenty of tech support over email to guide you through the process. It saves wasted time and expense in shipping and it can be a useful and fun learning process. Please contact us prior to attempting a DIY repair, however, as some things have non-obvious complications.
ECOTRIC BIKE MODELS

Folding Fat Bike  Flash  26' Fat Bike

Hummer  Seagull  Hummer-O

Vortex  Tornado  Lark

The stickers or components is for reference only, it may be different from your purchased item. Please refer to the item descriptions from our website. Thank you.
The universal wiring diagram for all bike

This wiring diagram is only for reference, if any question you have, please contact customer service for any repair.

RECORDING YOUR ECOTRIC BIKE INFO

BICYCLE SERIAL NUMBER: ________________________________

BATTERY SERIAL NUMBER: ______________________________

MODEL: ________________________________

COLOR: ________________________________

DATE OF PURCHASE: ________________________________

DEALER’ S NAME: ________________________________

DEALER’ S PHONE: ________________________________

DEALER’ S EMAIL: ________________________________