



## **Owner's Manual and Warranty Information**

**Visit our Website [www.lectriccycles.com](http://www.lectriccycles.com)  
for a complete installation video and LCD control  
panel operation video.**

**These videos will be found by  
clicking the FAQ tab at the top of the page**

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## *Congratulations on your purchase of a e-RAD Mid Drive Conversion Kit*

### **Important:**

Please read all information in this manual carefully for your own safety, as well as maximum enjoyment and performance of your e-RAD kit

Your e-RAD kit is designed for on road and light off road use only. Extreme off road use, jumping, racing, or prolonged exposure to the elements can put the operator at serious risk for injury or death and may void your warranty.

### **Before You Begin:**

Before you ride your e-RAD electric bike for the first time, it is recommended that you charge the battery for 8 hours before use. An initial charge will help condition your battery and allow for optimum performance throughout its life. Please note that your chargers indicator light may turn green, indicating a complete charge, before the conclusion of the 8f hour period. Allow the charge to continue until the full 8f hours are complete. Subsequent charges will be complete automatically, when the light turns to green.

### **Your Warranty at a Glance:**

Electric Kit Components: 1 year  
Batteries: 1 year

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# Range and Performance

Maximum range on a full charge can vary depending on many variables, such as: battery age, terrain, rider weight, temperature, riding style, amount of rider pedaling and speed. At 20 mph on normal road conditions, with fully inflated tires, the e-RAD kit's range is between 15 and 30 miles. Battery range below or above this level is normal and not cause for concern.

## Conditions that affect your battery's range:

- Ambient Temperature: Extreme cold and heat can affect the batteries capacity.
- Total Number of Charge Cycles: As the battery ages, total capacity can decrease.
- Wind: Riding into a strong headwind can decrease range.
- Road Conditions: Excessively rough or hilly terrain requires the consumption of more power.
- Load: Carrying extra weight on the bike or in a backpack will use more energy.
- Operator Weight.
- Repeated Acceleration from a Standing Start.
- Proper Gear Usage: Taking full advantage of the available gears will significantly increase range.
- Poor Maintenance: Under inflated tires, misadjusted brakes, a dry or dirty chain, can decrease range.

## Tips for Maximizing Range:

- Charge the Battery at room Temperature (32-85°F)
- Lithium Batteries have no chemical memory, and it is not necessary to discharge the battery completely for best performance. Charging a partially full battery will have no negative effects.
- Use the bicycles gears as much as possible when encountering terrain.
- Maintain proper tire pressures and lube the chain regularly
- Operating temperatures between 40°F and 85°F will significantly increase range
- Get your bike a regular (every 6 months) tune up at your bicycle dealer

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## The LCD Control Panel

- The LCD control panel is located centrally on the handlebars. When the battery is switched on and the center button on the touch pad is pressed for two seconds, the LCD screen will come on to indicate the battery's status and that the bike is ready to ride.
- The center button serves as an on/off switch for turning off the power assist on the fly. While in storage, the bicycle should be turned off at the battery.
- The up and down arrow buttons on the dash controls five different levels of power operation. The default setting is Level "0". In all modes the throttle is active and can provide up to 100 percent of the available power. When using assist levels 1-5, the assists will come on when you begin pedaling.
- To operate the power assist in level "0", engage the throttle located handlebar.
- If the LCD does not come on after holding the center button for two seconds, verify that the battery is charged, correctly installed and the power switch turned on at the battery.
- If the battery meter is flashing, power assist will not be available or will come and go. This indicates a low battery level and the battery must be charged.
- If storing your e-RAD equipped bicycle, be sure to turn off the system at the battery.

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## Battery Life

**Approximate Life:** If used in accordance with the guidelines contained in this manual the Li-Ion battery has an expected life span of 1000 charge cycles.

**For Extended Storage:** Always fully charge the battery before leaving the bicycle unused for extended lengths of time. Recharge the battery every 90-days during storage for optimum battery performance.

## Car Racks

When transporting your e-RAD equipped electric bicycle on a car rack it is recommended that you remove the battery. This will make it easier to load and unload and reduce the amount of weight the rack must support. Additionally, when transporting the bike on a car rack, always be sure to cover the bike to protect it from rain and adverse weather conditions.

## Cleaning

Always keep your e-RAD equipped bicycle clean and dry. When not in use, a storage cover to protect the bike from UV and weather damage is recommended. If your bike needs to be washed, use a soft damp cloth and a nonf toxic cleaner.

Avoid using high pressure water or compressed air to clean your e-RAD kit/bicycle. These can force water and debris into sensitive electronic components and can cause a malfunction.

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## Removing The Battery



Unlock the battery using the battery key by turning the key counterclockwise, in the top keyhole of the battery bracket. Next, slide the battery forward in the mount about one inch. Finally, lift the battery up and out of the mount and use the handle to hold onto the battery. There is no need to disconnect any wires to remove the battery.

Reinstallation is the reverse of removal. Be sure to lock the battery once it is replaced by turning the key clockwise.

## Charging The Battery

- Connect the AC plug from the charger to a wall socket. Avoid using extension cords. Lift up the charging port dust cover located on the side of the Battery. Insert the plug from the battery charger into the round port on the side of the battery.
- The light on the charger should now indicate a steady red light while charging. If the light remains green, the battery may already be completely charged.
- A full charge should take approximately 4–6 hours to complete depending on the state of discharge, at which point the charger should indicate a steady green light.
- When the charge is complete, first, unplug the charger from the battery. The battery should be ready for use.

**NOTE:** You may charge the battery while it is still mounted in the frame of the bike. If doing so outside, ensure that the battery, charger, and power cables are protected from the elements. Failure to do so may result in electrocution, injury, or death.

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# Warranty

## ONE YEAR LIMITED WARRANTY ELECTRIC BICYCLE COMPONENTS

Lectric Cycles, LLC ("Lectric Cycles") warrants that all new e-RAD Conversion Kits ("kit") and components therein are warranted to the original retail purchaser ("Purchaser") against manufacturing defects in materials and/or workmanship for a period of one (1) year from the date of original retail purchase.

### Terms of Limited Warranty

This warranty becomes effective on the date of original retail purchase. This warranty is not meant to suggest or imply that the kit cannot be broken or will last forever. It does mean that the kit is covered subject to the terms of the warranty. This warranty applies only to the original Purchaser of a kit and is not transferable to subsequent owners or any other party. This warranty is void if the kit is subjected to abuse, neglect, improper repair, improper maintenance, alteration, modification, an accident or other abnormal, excessive, or improper use, at the sole discretion of Lectric Cycles. During the duration of this warranty, Lectric Cycles, at their cost, will either repair the kit or kit component(s), or at Lectric Cycles' sole discretion, will replace any defective kit or component(s) with the same or equivalent component(s). The foregoing warranties are in lieu of and exclude all other warranties not expressly set forth herein, whether express or implied by operation of law or otherwise, including, but not limited to any warranties of merchantability or fitness for a particular purpose. In no event shall Lectric Cycles be liable for incidental, consequential or punitive damages arising from use or unavailability of the kit or component(s) in any manner, including, without limitation, damages for personal injury, property damage, or economic losses, whether based on contract, warranty, negligence, product liability, or any other theory. Lectric Cycles' liability here under is expressly limited to the repair or replacement of kits or component(s), or at Lectric Cycles' sole discretion, to the net amount paid by the original retail purchaser. If the original retail Purchaser elects to repair a defective kit or component(s) himself or use the services of someone other than Lectric Cycles (or its designee) to repair the Bicycle, or if Purchaser uses a replacement part not authorized by Lectric Cycles, Lectric Cycles will not be liable for any damage, failure or loss caused by the use of

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such unauthorized service or parts. If the Purchaser has a valid warranty claim as set forth in the Procedures and Terms and Conditions (the “PTC”), this limited warranty includes the cost of shipment or transportation of the kit or kit component(s) to or from Lectric Cycles in accordance with the PTC. If the Purchaser does not have a valid warranty claim as set forth in the PTC, this limited warranty does not include such shipment or transportation costs.

### **Exclusions**

This warranty does not cover: • normal wear and tear; • damage or failure from abuse, neglect, misuse, or accident; • damage from stunt riding, ramp jumping, acrobatics, or similar activities or any activity that is not consistent with the intended use of the kit; • damages resulting from failure to follow Instructions for Use and Warnings as provided in the Owner’s Manual for the kit; • damages resulting from improper charging of the battery pack or use of any charger not supplied by Lectric Cycles; • installation of any parts, accessories, or electrical component(s) not originally intended for or compatible with the kit as sold, or any modification of the kit or any component(s) originally supplied; tires, brake pads, chains, lights, motors, battery packs, displays, or vehicle controllers that have been opened for any purpose whatsoever, other than by Lectric Cycles or its authorized agents; and the purchase or use of the kit outside of the United States of America. All warranties are void if the kit is used for any purpose other than the reasonable intended use of the kit. Additionally, this warranty does not cover damage associated with commercial use.

### **Procedures**

Warranty work must be performed by Lectric Cycles or an authorized agent of Lectric Cycles. Proof of purchase must be provided. To qualify for warranty services, a Return Authorization Number (“RAN”) must be obtained by the original retail purchaser from Lectric Cycles. The original retail Purchaser must contact a Lectric Cycles representative to discuss the problem with the Kit and to obtain a RAN. Upon issuance of a RAN, the Bicycle or Bicycle component(s) must be returned to Lectric Cycles at its designated location for warranty work. The original retail Purchaser is responsible for the return of the kit, undamaged in transit, to Lectric Cycles for warranty work and for the costs associated with shipping and



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insuring the kit and component(s) when returning them. If Lectric Cycles' authorized qualified technicians determine a warranty claim is valid and conforms with this warranty, Lectric Cycles will repair or replace component(s) or replace the entire kit at Lectric Cycles cost, including materials and labor. For valid warranty claims hereunder, Lectric Cycles will not be responsible to the original retail Purchaser for shipping and insurance costs incurred as a result of returning the kit to Lectric Cycles for warranty work , and Lectric Cycles will pay for shipping costs to return the kit to the original retail Purchaser.