

# ELECTRIC BICYCLE OWNER'S MANUAL SUPPLEMENT

For Owners of EG Bali, EG Enterprise and EG Kyoto Electric Bicycle

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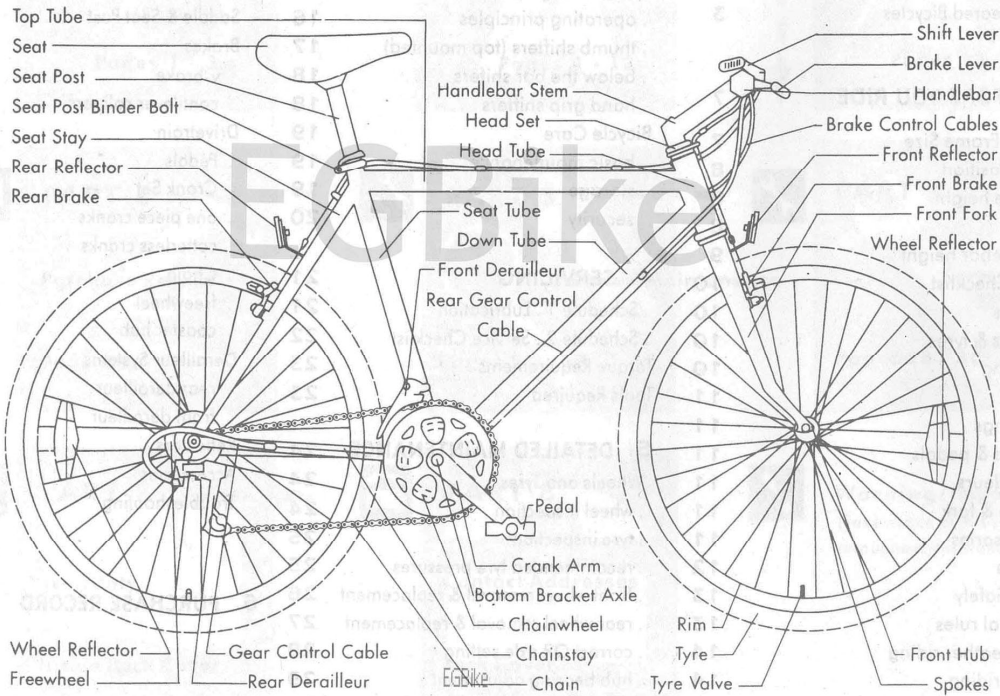
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This portion of owners manual is a supplement to the Bicycle owner's manual. This section pertains to the features in the electric bicycle and how to care for them.

## INSTALLATION INSTRUCTIONS



**Mountain Bicycles & Crossbikes** Mountain bicycles are designed to give maximum comfort over a wider variety of road surfaces. The wider handlebars and convenient shift lever position make them very easy to control. Wider wheel rims and tyres give them a softer ride with more traction on rough surfaces. The frame and fork on mountain style bicycles is much sturdier and heavier than a racing style bicycle. A variation of the mountain bicycle is the crossbike or hybrid. This style of bicycle is lighter than a mountain bicycle but not as fast as a racing bicycle. It combines some of the features of comfort and control with lighter weight and higher speed.



### How to install the bicycle out of the box

1. Unpack the bicycle from the box and cut all the ties that held the bicycle together during shipping.
2. Turn the front fork/suspension 180 degrees. If the fork cannot turn, loosen the screws holding the stem and then turn the fork. Tighten the stems back after turning the fork forward; such that the stem will protrude forward.
3. Install the saddle and the handle bar for the bicycle. For the Kyoto and Bali, unhook the front V-Brake so that the tire can fit through it in later step 7. A video can be found on our site under product literature that shows you how to do this.
4. ! WARNING: Please make sure you have installed the saddle and the handle bar before turning the bicycle upside down to install the front wheel. If the above steps are not followed first, turning the bicycle upside down may damage the battery controller box.
5. ! WARNING: Please make sure the installed saddle is at least 1 full inch above the battery and that the post is firmly secured before turning the bike upside down onto the seat or riding the bike. Sitting on the battery can damage the battery holder.
6. Turn the bicycle upside down in such way that the fork is facing upward.
7. Install the front wheel by placing the wheel between the forks and then tighten the axle screws using the supplied wrench.

8. Turn the bicycle back around on its wheels. For the Bali and Kyoto, re-adjust the front V-Brake. For the Enterprise, install and adjust the disc brake.
9. Attach the rear reflector or the rear LED reflector bracket and then the LED onto the seat post.
10. The rear LED reflector takes 2 AAA batteries. To open the Enterprise rear LED reflector, unscrew the reflector and place the batteries in the housing and re-assemble the LED reflector. To open the Bali or the Kyoto LED rear reflector use a Philips head screw driver to slowly pry it open.
11. Install the pedals to the bike. Each of the pedals has a letter indicating which side it needs to be installed to. R=Right and L=Left. Install them using the provided wrench.
12. For the Enterprise, install the front lamp bracket and then the lamp. The lamp takes 2 D batteries. (optional)
13. For the Kyoto, install the water bottle bracket and the water bottle. (optional)
14. ! WARNING: Be sure the main Li-on battery is installed properly before riding the bicycle. If the Battery is installed wrongly, it may damage the battery case railing or cause the battery to fall off the bike.
15. Install the Main Li-ion battery. Ensure both side rails and the spade piece of the metal holder are totally inserted into the battery on the underside. Then, lock in the battery in place with the key.
16. ! WARNING: Before riding ensure the battery has been installed properly by inspecting the mount from the bottom to ensure there is no gap between the holder and the battery.

## OPERATION INSTRUCTIONS

### How to operate the Electric Bicycle

The Electric bicycle can be operated in 3 different modes:

#### 1. *Manual Mode* –

- Place the operation switch to the left on the handle bar in the middle position, and ride the bicycle normally as you would any bicycle.
- In this mode it is not necessary to insert the key or turn on the electric controller.

#### 2a. *Power Assist Mode “S” (Standard Mode)* –

- Place the key in the lock/switch and turn the key clockwise to the right most position.
- Place the operation switch to the left of the handle bar in “S” position, and then ride the bicycle normally as you would any bicycle.
- In this mode, the motor will assist you with full power as you pedal the bicycle.
- The motor will stop when you stop peddling in this mode.
- This mode saves moderate amount of battery power.
- This mode gives you a moderate “miles per charge” and is considered a balanced mode in terms of energy usage vs. distance.

#### 2b. *Power Assist Mode “E” (Economy mode)* –

- Place the key in the lock/switch and turn the key clockwise to the right most position.
- Place the operation switch to the left of the handle bar in “E” position, and then ride the bicycle normally as you would any bicycle.
- In this mode, the motor will assist you with a moderate amount of power as you pedal the bicycle.
- The motor will stop when you stop peddling in this mode.

- This mode saves maximum amount of battery power.
- This mode will also give you the most miles per charge.

### 3. *Fully Electric Mode* –

- Place the key in the lock/switch and turn the key clockwise to the right most position.
- Install the optional throttle grips (included)
- Place the operation switch to the left of the handle bar in any position you desire.
- Twist the grips in any increments of power you desire to power the motor of the bicycle and it will take off.
- This mode uses the most amount of battery power.
- This mode will give you the least miles per charge compared to the above other modes
- This mode can be used in conjunction with any of the above modes as the motor power is supplied while twisting the throttled grip in addition to whatever mode the switch on the handle bar is engaged on.

### **How to remove and install the throttle grips (included)**

1. Use a ball/bicycle pump, and insert it into the hole at the end of the currently installed grip.
2. Pump the grips while plugging the hole on the opposite grip.
3. The grip opposite to the one you are pumping will pop off due to the pressure.
4. ! WARNING: Ensure adequate space at the end of the grips and stand clear while this procedure is performed. Do not over pressurize the handlebar/grips as excessive pressure may cause the grips to fly off the handlebar injuring someone.
5. After removing the grip, apply a small amount of mild soap solution to the bare handle bar and install the new grip.
6. ! WARNING: The newly installed grip will need time for the soap solution to dry off before it is ready to be used. Ensure that you do not slip while riding if you were to use the bicycle before the soap solution dries out.
7. ! NOTE: Make sure you install the throttled grip to the right side of the handlebar.
8. Repeat the procedure for the other grip.
9. The Throttled grip needs to be unscrewed to fit the handlebar and screwed back onto the handlebar. The Throttled grip does not need soap solution to install.
10. Attach the 2 leads on the throttled grip to the sockets near the frame of the bike. The leads are color coded and can only be attached a certain way. Attach the blue lead to the blue socket and the red lead to the red socket.
11. ! NOTE: If the leads do not fit the socket properly, do not force them in, as doing so may damage the socket/lead.

### **How to read the Battery Meters and about the Li-on battery**

The Battery meter is located on the battery with 3 LEDs showing the current capacity of the battery in various states of discharge and the meter located on the handlebar only shows if the electrical system on the bike is “On” or “Off”.

As with any Lithium-ion batteries, there are a limited number of times a battery can be charged. While priming Lithium-ion batteries are not necessary (which means it may be charged whenever you want without affecting its charge capacity), the number of times it is charged does affect the overall longevity of the battery life.

To conserve battery power, switch off the power by putting the key/switch in the middle position (a round symbol with an x over it), when the electric power is not needed.

! NOTE: In this position the key may fall off the switch if you hit a bump while riding the bicycle.

! WARNING: Please keep the keys to your electric bicycle in a safe place. Each set of keys are unique to your particular electric bicycle and unfortunately we do not keep a copy of your key on file. Nor would we have a way of reproducing that key.

## CARE INSTRUCTIONS

### Battery

! WARNING:

- Never short circuit the charge or discharge battery terminals.
- Never charge the battery by the discharge terminals or discharge the battery by the charge terminals.
- Keep the battery away from excessive heat and or open flames.
- Never pour on or submerge the battery in water.
- To avoid damage to the battery, never subject the battery to intense physical impact, shock or severe vibration.
- Protect the battery from water or moisture at all times.
- Protect the discharge and charge terminals of the battery from rain or water logging.
- Keep the battery away from children.
- When the battery is not in use for an extended period of time, remove the battery from the battery holder for storage.
- Never disassemble the battery. The battery does not contain serviceable parts.
- Do not sit on or place any object on or over the battery.
- Use only the supplied charger to charge the battery.

Battery capacity: 10Ah

Battery and Motor Voltage: 24V

Charge temperature range 0~45°C

Discharge temperature range -20~55°C

Total Charge time from total discharge: 6-8 hours

Total Charge time for the initial first 3 charges: 12 hours

If you have any questions about this battery or its usage, please do not hesitate to contact us

### Storage, Maintenance and Transport

#### Battery

- If the battery needs to be stored for an extended period of time, it should be kept at around 50% charge capacity (or charge the battery for about 2-3hours from empty) and should be placed in a dry and well ventilated place.
- To maintain battery life expectancy, the battery needs to be charged at least once for 2-3 hours every two months.
- The battery and charger should be kept in storage in a clean, dry and well ventilated place.

Avoid contact with corrosive substances and keep the battery away from excessive heat and or open flames.

- Should the battery need to be transported, pack it in a box, and ensure that it is always protected from intense physical impact, shock, severe vibrations, direct sunlight, or water logging. The battery may be transported in a vehicle such as an automobile, train, ship, airplane and etc. Please check your local rules and regulations regarding such transportation.

Battery Storage conditions: Room temperature -20~35°C,

Battery Storage relative humidity: 5~65%RH

### *Charger*

- The charger should be disconnected from the battery when it is kept in storage.
- Should the charger need to be transported, pack it into a box and ensure that it is always protected from intense physical shock, severe vibrations, impact, direct sunlight, or water logging. The battery may be transported in a vehicle such as an automobile, train, ship, airplane and etc. Please check your local rules and regulations regarding such transportation.

Charger Storage conditions: Room temperature -20 ~ 35°C,

Charger relative humidity: 5~65%RH

### **Charger**

! WARNING:

- Never place any object on the charger.
- Never pour any liquid on or insert any metal into the charger.
- Never disassemble or modify the charger in anyway.
- Never plug or un-plug the charger with a wet hand
- Do not use the charger during a lightning storm.
- Use only the supplied charger to re-charge the battery.
- Do not operate the charger in an unstable, dusty or an excessively damp environment.
- Avoid using the charger under direct sunlight.
- Operate the charger in a well ventilation environment.
- Unplug the charger from the wall outlet when not in use.

### **Accessories**

! WARNING :

- Ensure that your assembled accessory does not interfere with the steering, braking or the natural movement of the bicycle.

### **Electric Motor and Battery Features**

*High efficiency and power saving Electric Motor–*

- High efficiency of up to 85%. 4N.m~13N.m torque
- Efficiency>80%. 24V battery for a continuous run range of more than 40 miles on a single charge.
- Produces a power of 200 Watt

*High power and high torque –*

- Fast pick up even under heavy load. Easily climb and ascend sloppy terrains.
- Low power consumption, Long-battery life and a Compact design.

- Battery weighs less than 8 Lbs.

*Trouble-free, Low maintenance, Long life span and Easy to maintain electric motor –*

- High Quality Electric Disc motor with an advance speed sensor.
- Closed system motor requires only surface cleaning and dry storage.

### **Charging the Battery**

- Connect the battery to the charger; ensure the output terminal of the charger and the input terminal of the battery are firmly connected.
- When the charger is plugged into a wall outlet, the charger LED indicator will turn RED to indicate that the battery is charging
- The LED indicator on the charger will turn GREEN when the battery is fully charged.
- Disconnect the charger from the wall outlet before disconnecting the charger from the battery.
- To ensure long battery life, fully charge the battery for at least twelve (12) hours during the first initial three charges and charge the battery at least once for 2-3 hours every 2 months

### **Repair and Service**

**! WARNING:**

- Inspect the bicycle frequently. Failure to inspect the bicycle and to make repairs or adjustments, as necessary, can result in injury to the rider or to others. Make sure all parts are correctly assembled and adjusted as written in the owner's manual.
- Immediately replace any damaged, missing, or worn parts.
- Make sure all fasteners are correctly tightened as written in the owner's manual
- Parts that are not properly tightened can be lost or operate poorly.
- Do not over tighten parts, as over-tightening may damage the part.
- Make sure any replacement fasteners are of the correct type and size.
- If you own a bike with an aluminum frame, inspect the bicycle frame carefully and frequently as Aluminum frames can develop micro fractures from stress, severe impact and shocks. If you see these micro fractures or cracks, stop riding the bicycle immediately.
- In case of micro fractures, have the bicycle frame repaired and inspected by a qualified professional before riding the bicycle again.

**NOTE:** Have a bicycle service shop make any repairs or adjustments for which you do not have the correct tools to or if you do not sufficiently understand the instructions set forth in this electric bicycle's manual supplement or the bicycle owner's manual.

### **Inspection of the Bearings and Maintenance**

- Frequently check the bearings of the bicycle. Have a bicycle service shop lubricate the bearing once a year or any time they do not pass the tests as noted in the Bicycle owner's manual.

### **Serial Number to your EG Electric Bike**

- **! Warning:** Before turning the bike upside down remove the battery. Ensure the battery holder does not support the weight of the bike in anyway while upside down.
- The Serial number to your EG Electric Bike is located right below the crank of the bike where the pedal is attached to. It is under the bike below the saddle. To see this, turn the bike upside-down.

### **How to detach the rear wheel of the Electric bike**

1. ! WARNING: We do not condone modifying the EG Electric Bicycle in any way shape or form. Modifying the bike in any way, will void your Warranty. The instructions below are written only for the maintenance or repair of the bike.
2. To detach the rear wheel, first unhook the connector near the rear wheel.
3. Unscrew the nuts on both sides of the rear axle and the wheel should come right off.
4. Unhook the chains from the rear freewheel (gears)
5. To install it back on, please note and reverse all the detachment instructions

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