

# ELECTRIC BICYCLE OWNER'S MANUAL

For Owners of EG Vienna 250 EX Folding Electric Bicycle

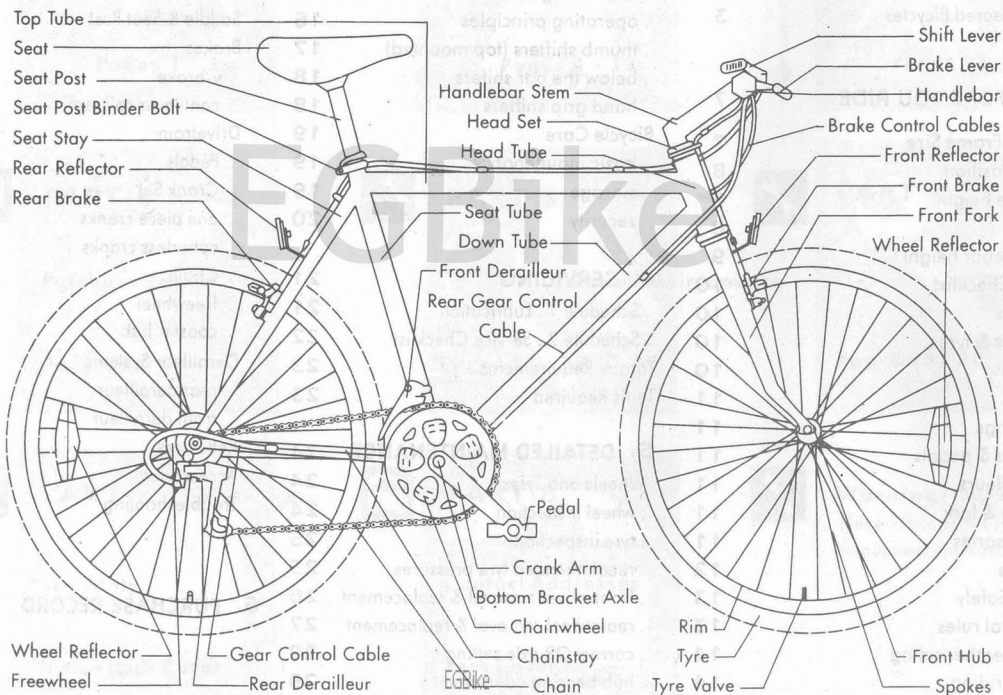
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## INSTALLATION INSTRUCTIONS



**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/Unfold the bicycle out of the box

1. Your folding bike is 95% installed. All you need to do is unfold the bike, insert the handle bar stem and insert the seat. ALL of which are secured using quick releases.
2. To begin, unpack the bicycle from the box and cut all the ties that held the bicycle together during shipping.
3. Unfold the frame of the bike while gently lifting the Quick Release upward. When the main frame of the bike has straightened completely, release the quick release and bring the lever all the way to the front of the bike. Then, securing the quick release.
4. Unfold the Handle stem (where the handlebar fits into) section of the bike. Then, bring the quick release over to the top portion of the bike and secure the lever.
5. **! WARNING:** Please make sure the installed saddle is at least 1/2 inch above the rear suspension under the seat and that the post must be firmly secured before riding the bike.
6. Install the saddle and the handle bar for the bicycle. Both the saddle and the handle bar can be installed by tightening and locking in their respective quick releases.
7. Unfold the pedals by gently lifting them horizontally and they will lock into place.

8. The rear LED reflector takes 2 AAA batteries. To open the LED rear reflector use a Philips head screw driver to slowly pry it open.
9. A front lamp is installed on your EG Vienna folding bicycle. To run this lamp, simply switch it on all the way and the movement of the front wheel will power your lamp. Your front reflector is integrated into this lamp.
10. ! WARNING: Be sure the main Li-ion 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.
11. ! WARNING: Do NOT sit on, place anything or tie anything to the battery while installed on the bike under any circumstances. Doing so can damage the battery holder.
12. 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.
13. ! 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.

### **How to Fold the Bicycle**

1. First make sure your saddle and the handle bars are lowered.
2. To fold the handlebar stem, lift the quick release and move it all the way down to unhook the stem.
3. ! WARNING: if your pedals don't fold easily do not force them to do so, or you will risk breaking the pedals.
4. Next fold, the pedals, by gently pressing in the pedals horizontally and then they will effortlessly fold into their natural vertical position.
5. To fold the frame of the bike, unhook the quick release, and bring the quick release lever all the way towards the back of the bike. Next, gently lift the quick release upward to unhook the quick release. Bend the frame to fold it.

## **OPERATION INSTRUCTIONS**

### **How to operate the Electric Bicycle**

The Electric bicycle can be operated in 3 different modes:

1. *Manual Mode* –
  - Make sure the Battery Meter/power meter on the left of the handlebar is “OFF” and then, pedal the bicycle normally as you would any bicycle.
- 2a. *Pedal Assist Mode (LOW)* –
  - Turn on the battery power to the electric bike by switching on the Battery. Switch is on the battery.
  - Press the red “ON/OFF” button on the meter located to the left of the handlebar to turn “ON” the system. Pedal the bicycle normally as you would any bicycle.
  - The motor will stop if the brake lever is depressed even if you are still peddling the bicycle.
  - The motor will stop when you stop peddling in this mode.
  - When first switched “ON” the motor starts off in the “LOW” power mode.
  - In this mode the motor is very power efficient, and will assist you with the least power

as you pedal.

- In “LOW” mode, the system provides you with the most “miles per charge” of battery power use among the pedal assist modes.

#### *2b. Pedal Assist Mode (Medium) –*

- To put the bike in “Medium” pedal assist mode, switch on the bike as you would on the above “LOW” mode and then press the green “Mode” button to light up the “MED” mode and pedal 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 if the brake lever is depressed even if you are still peddling the bicycle.
- The motor will stop when you stop peddling in this mode.
- This mode will give you a balanced “miles per charge” of battery power use among the pedal assist modes.

#### *2c. Pedal Assist Mode (High) –*

- To put the bike in “High” pedal assist mode, switch on the bike as you would on the above “LOW” mode and then press the green “Mode” button to light up the “HIGH” mode and pedal the bicycle normally as you would any bicycle.
- In this mode, the motor will assist you with a high amount of power as you pedal the bicycle.
- ! CAUTION: This mode is designed to achieve a speed of 20 MPH. User discretion is advised
- The motor will stop if the brake lever is depressed even if you are still peddling the bicycle.
- The motor will stop when you stop peddling in this mode.
- This mode will give you a low “miles per charge” of battery power use among the pedal assist modes.

#### *3. Fully Electric Mode –*

- Press the red “ON/OFF” button on the handlebar meter to turn “ON” the system.
- Place the “MODE” switch to the left of the handle bar in any position you desire, because while engaging the thumb throttle, the pedal assist mode is in-active and does not have any effect on the speed or power of the electric motor.
- Depress the thumb throttle in any increments of power you desire to power the motor of the bicycle and it will take off.
- This mode can be used in conjunction with any of the above modes as the amount of motor power supplied while twisting the thumb throttle overrides whatever mode the “MODE” switch on the handle bar is engaged in.
- You can engage this mode whenever you want as long as the system is turned “ON”.
- While peddling will lighten the load demand on the electric motor, you do NOT need to pedal in this mode of operation.
- ! CAUTION: This mode is designed to achieve a speed of 20 MPH. User discretion is advised
- The motor will NOT stop when you stop peddling while the thumb throttle is engaged.
- The motor will stop if the brake lever is depressed even if the thumb throttle is engaged.
- ! CAUTION: Remember to let go of the thumb throttle when getting on or off the bike

- weather or not the brake levers are engaged.
- In this mode, the electric bike will use the most amount of battery power it will use even more battery power than in any of the pedal assist modes.
- This mode will give you the least “miles per charge” compared to any of the above modes of operation

About the Brake Safety Feature on all our Electric Bikes.

- ALL our electric bikes make use of a wired brake lever kill switch for safety purposes. When the brake lever is engaged, it sends a kill signal to the controller to disable the motor under all circumstances and condition. This will ensure the motor does not continue to spin when you need the bicycle to stop.

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

There are 2 Battery meters on your bike. 1 is located conveniently on the handle bar showing if the power is “On” by the light in the bottom right of the meter and the 3 bars on top of that shows the state of the battery discharge. The other Battery meter is located on top of battery with 3 LEDs showing the current capacity of the battery in various states of discharge.

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 can be removed from the switch, so it can 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 in pedal assist mode.
- 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 Maintenance**

1. 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 Numbers to your EG Electric Bike**

1. The Serial number to your EG Electric Bike is located in 2 places on the bike frame.
2. The first one is located right where the front Suspension fork meets the frame of the bike. It is at the front of the frame right near where you install the front reflector to the bike.
3. ! 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.
4. The Second serial number is located on the under side of the bike below the saddle and below the crank of the bike in the middle. To see this one, 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.