



Customer Service: Green Bike – Electric Motion LLC

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Website: GreenBikeElectric.com

Folding Electric Bicycles MODEL HF 201– 48N

Big Dog Off Road



Instruction Manual

Green Bike – Electric Motion Congratulations on you're newly purchased!

Joining **Greenbike's Go Green** revolution will open your doors to a whole new world of freedom! **Green Bike – Electric Motion** greatly values the quality of our products, giving you value for your money, friendly and professional service, and safety for the rider above all else.

Please uphold the product-customer-importer relationship to ensure a quality experience over time. In this manual, you will find all the details required to maintain product care.

To ensure safety during riding and to maintain long-term usage experience, please read all instructions carefully before using the bike, and follow the specified maintenance and usage instructions.

Thank you for choosing **Green Bike – Electric Motion** !

- **For your safety** obey traffic and signage instructions!
- Do not allow an additional rider on the bike. This bike is designed to carry one person only.
Any damage to the bicycle resulting from an additional rider is **not covered under warranty**
- The height of the seat and handlebars should be adjusted for maximum comfort and control
- The seat post and handlebars have a safety strip. Be sure it is not visible when adjusting. If the strip is not set correctly, excess pressure will be created and damage the cables.



- Be sure that the locking hinges of the seat and handlebars are locked before starting the trip.
- Check the condition of the brakes frequently and adjust when necessary. Braking range on a dry road is 13 feet and on a wet road can reach 50 feet. Keep more distance on a wet road.
- The chain is properly adjusted and should not be altered. The chain must be lubricated to prevent accelerated weathering.
- At night, the headlight and backlight must be switched on by a switch on the control display.
- Be sure to wear appropriate clothing and do not carry objects or bags in a way that they can be caught in the wheels or chain. To keep the rider safe - do not bring your legs together (too close to the chain) more than necessary.
- Do not ride in weather that does not allow safe riding such as rain, puddles, strong winds, snow, etc.
- When stopping, use both brakes. Do not be content with one brake. Use both brakes together in order to maintain stability and achieve greater control.
- Do not ride under the influence of alcohol, drugs or substances that affect the rider's alertness.
- When riding, you must hold both handles, do not perform stunts and reckless turns without examining the area from all sides before proceeding.
- Please follow local and state regulations.
- Do not drop the bike on the ground (due to the sensitivity of the battery, motor and controller). The bike should be placed on the kickstand carefully.

- Do not jump or climb sidewalks on the road.

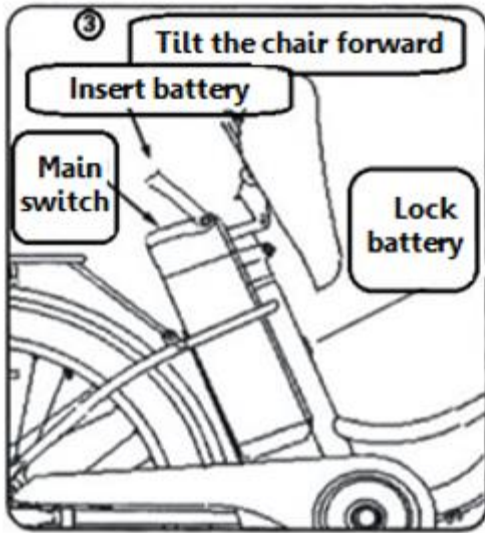
Folding the Bike

- The bike can be folded for storage at home or in the trunk of the car.

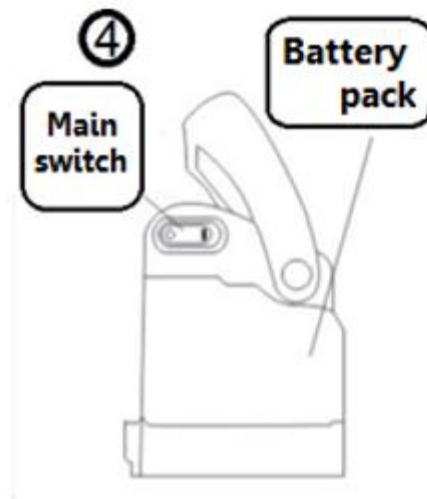
- The folding time is only 10 seconds. You can get a demonstration at the point of purchase or watch a tutorial video on our site www.GreenBikeElectric.com

Before You Start to Ride

Raise the seat as shown in figure 3 and insert the battery into place and lock it.



Picture 3



Picture 4

LCD-S900 E-bike Intelligent Display Manual

1. Overview of S900

1) UART protocol:

Equipped with independent press buttons

2) Speed:

Real-time SPEED, MAX SPEED, Average SPEED

3) Kmh/mile:

Kmh/MPH according to habit

4) Battery level:

Indicates the battery level in real time

5) Head light control:

Press button to power on/off

6) Back light adjustment:

3-level adjustment

7) Assist level:

From 0 to 5, press button to change assist level, 0-no assist, 5-default value

8) Distance:

ODO/Trip/Driving duration

9) Error code:

Please refer to appendix table 1 for definition

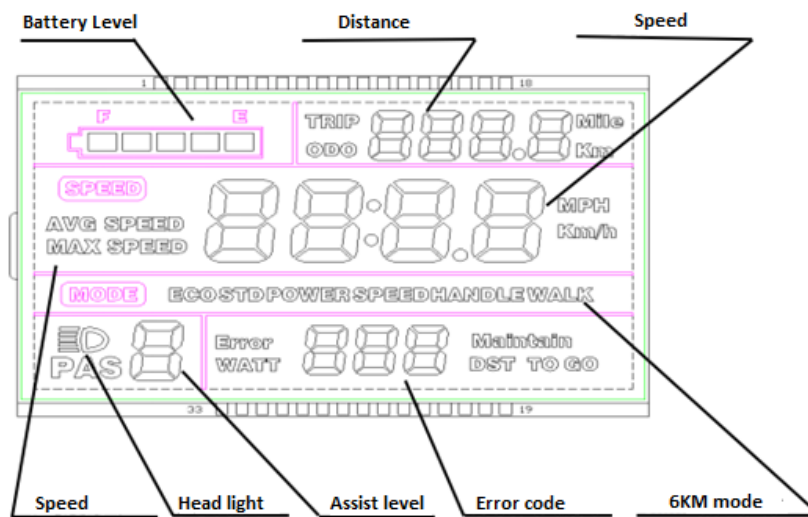
10) 6km mode:

In this mode, it will display “WALK” on the screen

11) Parameter setting:

Set parameters, such as: wheel size, speed limit etc.

2. Presentation of screen



- 1) **Speed:** Average SPEED/MAX SPEED/Real-time SPEED
- 2) **Speed unit:** Km/h/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**


3. Press button definition

LCD-S900 uses independent press button, in total three buttons:



4. Operation instructions

1) Power ON/OFF

When the power is off, Long press  (MODE during 3 seconds screen will display all contents and start to normal working mode, and controller will be turned on


When the power is on, Long press  (MODE during 3 seconds screen will be powered offhand controller will be turned off. If no any operation both on bike and display during 10 minutes (time could be set), the display will turn off automatically, in this case, no power consumption for both display and controller



Figure 1

2) ODO/TRIP


Short press  to switch ODO/TRIP, Trip (Single trip distance) → ODO (Accumulated distance)





Figure 2



Figure 3

3) Assist level

Short press  or  to change assist level default value is level



Level 0

Figure 4



Level 1

Figure 5



Level 5

Figure 6

4) Different Speed display:



Long press  and  to switch different speed information, real time speed (SPEED) → Max speed (MAX SPEED) → Average speed (AVGSPEED) → Driving Time.



Figure 7



Figure 8



Figure 9



Figure 10

5) Head light control


Long press , turn on/off the head light.



Figure 11

6) 6km mode








When the bike is stopped, long press , will enter 6km/h mode, the speed will be 4.5~7.5km/h according to different road conditions, "WALK" will show up on screen, long press again  or short press , will quit 6km/h mode. Long press or short press could be customized by clients.



Figure 12

5. Parameter setting

When the display is powered on long press  and , will enter parameter setting mode (Figure 13), in this mode, can change parameter values long press again  and  will quit parameter setting mode or no operation during 10s will also quit this mode

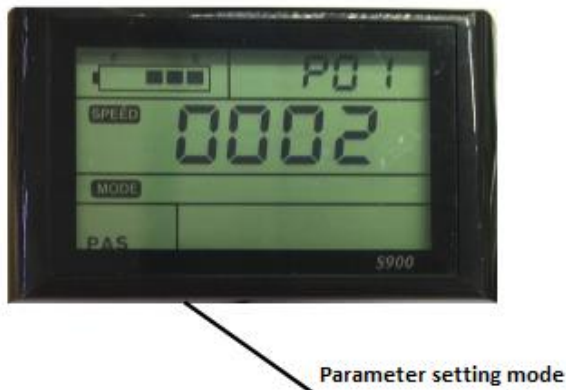





Figure 13

In parameter setting mode short press /  will change parameter value short press  will save current value and switch to next parameter

1) P01-back light lightness:



Short press /  will switch from 1 to 3, Level 3 is lightest. Level 2 is default value.



Figure 14

2) P02-kmh/MPH:

Short press   to Switch Km/h/MPH

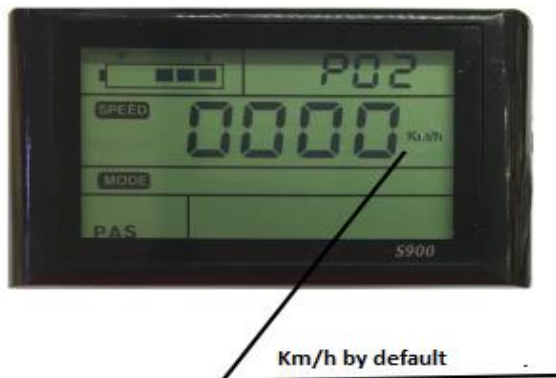


Figure 15

3) P03-Working voltage:



Short press   to switch 24V, 36V, 48V, Default value is 36V



Figure 16

4) P04-Auto shutdown time:



Short press   to switch from 0 to 60, it is the time(in minutes) to shut down the screen automatically if no operation 0 means never shut down, Default value is 10 minutes.



Figure 17

5) P05-Number of Assist levels:

Short press   to change level 0->1->2

- 0: 3 assist levels
- 1: 5 assist levels
- 2: 9 assist levels



Figure 18



Figure 19

6) P06-Wheel size selection:



Short press   to switch wheel size in inch, step: 0.1 inch



Figure 20

7) P07-Number of magnets for speed sensor:

Short press   to switch from 1 to 100

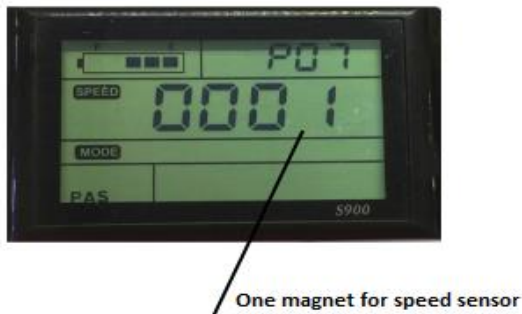


Figure 21

8) P09-Non-zero speed start:



Short press   to switch from 0 to 1. 0: zero speed start, 1: non-zero speed start



Figure 23

9) P10-Driving mode selection:

Short press   to switch from 0->1->2

0: Assist mode (throttle does not work, only assist) ;

1: Electrical driving mode (only throttle works, assist does not work)

2: Both assist and Electrical driving mode (Not available if in zero speed start and electrical driving mode)



Driving mode:2

Figure 24

10) P11-assist sensitivity setting:

Short press   to switch from 1 to 24



Assist sensitivity=3

Figure 25

11) P12-assist starting power setting:



Short press   to switch from 0 to 5:



Starting power of assist

Figure 26

12) P13-Assist magnetic disc types:

Short press   to switch from 5->8->12, different numbers of magnets

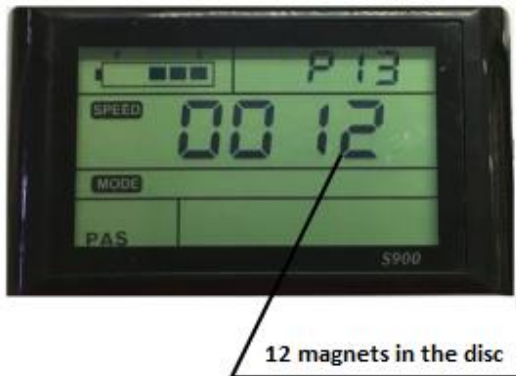


Figure 27

13) P14-Current limit for the controller:

Short press   to switch from 1 to 20A



Figure 28

14) P15-low voltage protection for controller:



Figure 29

15) P16-Reset ODO distance:

Long press  during 5 seconds



Cleared to 0

Figure 30



ODO is 0

Figure 31

16) P18-Reset all parameters:

Long press  5 seconds when it displays "SSSS", all parameters reset to default values (except for the ODO distance)



SSSS means reset to default value

Figure 32

6. Specifications

- 1) Power supply: 24V,36V,48V
- 2) Rated current: 10mA
- 3) Max current: 30mA
- 4) Leakage current after power off: <1uA
- 5) Current supply to controller:50mA
- 6) Working Temperature: -18~65°C
- 7) Storage temperature: -30~80°C

7. Error code definition

When an error appears, S900 will notice users by different codes, please refer to Table 1 for different codes:

Code (Decimal)	Signification	
0	Normal	
6	Low Battery level	
7	Motor error	
8	Throttle error	
9	Controller error	
10	UART receive error	
11	UART receive error	

Table 1

8. Notices

Power on and power off must keep an interval of at least 3 seconds, please don't press "MODE" button frequently when it is powered off.

When the temperature is under -10°C , the screen will be a little darker than normal, when the temperature increases, the screen can go back to normal

The Electrical System is Now Ready!

- Fold the kickstand from the ground, then sit on the seat. Put one foot on the pedal and the other on the ground.
- Now, start pedaling and the engine will go into action. There will be a faint rustle of the pass-through.
- To maintain battery life, do not use it until its end. When the battery meter flashes, turn off the power switch and use the pedal as a regular bicycle. After recharging, you can ride again with the electric motor.
- Back Injury: The rear of the bike is not intended to carry people. Maximum load is up to 25 kg, and the luggage should be tied with straps and tested during riding.
- Park in a safe place that is not an obstacle to vehicles or pedestrians. Place the bike on the kickstand, disconnect the power with the main switch and pull the key out of the lock.
- The bike must be locked with a massive lock and difficult to steal. It is recommended to **take the battery with you.**
- Charging: The battery must be charged only with the charger supplied with the bike.

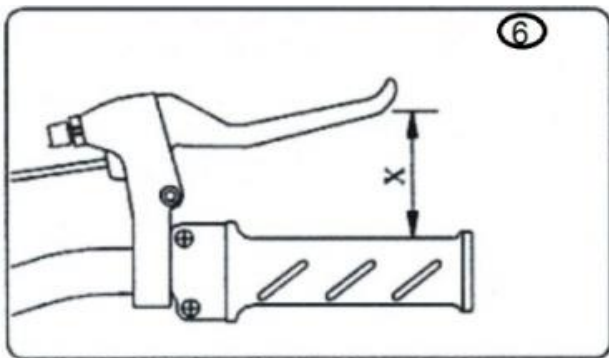
Charging with a different charger can damage the battery and will void the warranty.

Do not open the battery or charger for testing or repair! **Bring to Green Bike Electric Motion authorized repair shop for testing!**

- Charging takes up to 6 hours, depending on battery status. The battery can be charged both on and off the bike.
- The charging cable must first be connected to the battery and then to the mains socket.
- When the charge indicator light is red, the battery is charging. When the charge light turns green, the battery is full and must be disconnected from the power source. When charging, the battery must be properly positioned and not fall or be damaged.
- **The charger becomes hot during charging. Keep it away from any flammable materials and keep the vents unblocked**
- Be sure to properly dispose of dead batteries at proper recycling plants and do not throw away in the trash.
- Before beginning the ride, check that all the indicator lights are working and the battery is locked in place.
- Check that the electrical contacts of the battery are always clean. Clean with a dry cloth without moisture.
- Check tire pressure regularly (40 PSI). Poor pressure will cause overuse of the battery and shorten cycling time.
- Do not drive in puddles. If water enters the engine, the controller or the battery house may become damaged. Water damage will void the warranty provided by the manufacturer.

*Store the bike in a dry place. Moisture causes corrosion! **Do not leave the bike in the rain.** Immediately treat the corrosion with suitable oil! Water penetration into the electrical mechanisms will void the warranty.

- Do not put the bike in the sun especially when leaving the battery installed on the bike.
- Do not disassemble the electrical parts. Disassembling them independently will void the manufacturer's warranty.
- It is important to lubricate the moving mechanical parts such as the wheel hinges, transmission and gears, cable connections to the brake pads, etc. Do not lubricate the electrical parts themselves!
- Brake maintenance: The right brake is responsible for braking the rear wheel. The left brake is responsible for braking the front wheel. Always check if the brakes are normal and are optimally tuned.
- An unintentional braking creates unnecessary and harmful resistance to the bicycle and the life of the electrical system!
- In picture 6 you can see a stretched handle in optimal position.



In addition, you can access any authorized bicycle shop to handle the mechanical parts of the bike but not the electrical parts.

The electrical parts can only be handled by a workshop authorized by the importer.

**National safety regulations must be obeyed.
The bike is designed for riding in the city and in riding paths.**

For your safety, please wear a helmet!

Any change to the bike without the importer's approval will result in cancellation of warranty!

Proper maintenance should be upheld by the bike owner:

CORRECT FRAME SIZE:






For safe and comfortable riding there should be a clearance of at least 25mm to 50mm (1 to 2 inches) between the crotch of the intended rider and the top tube of the bicycle frame, while the rider straddles the bicycle with both feet flat on the ground. Women can use a men's style bicycle to determine the correct size women's model. (See Owner's Manual for additional information)



Bicycle Cleaning

For the bike to serve you properly, you may want to clean it of sand and mud. If you cannot clean the entire bike, it is necessary to clean the drive systems (chain, front and rear wheels).

- Cleaning frequency: once in three or four significant rides or after each ride where the bike returns with sand or mud. You can use sponge and water bucket, solvent for grease, kitchen dishwashing sponge, rags, special brush with hard fibers.
- Rinse: Rinse all parts of the bike using a sponge. The hard brush is designed to remove heavy dirt from the wheels, pedals, etc.
- Drying: Dry the bike with the rags and place them in direct sunlight until fully dried (preferable if not washed at night or in stormy weather). Immediately after washing and drying, lubricate the chain. It is recommended to clean brakes with a dedicated material for brakes.

Mechanical and Electrical Components		Electronic Specifications
Frame	Aluminum alloy 6061	Motor : 8 Fun 750 W 
Type	folding electric bicycles	
Tires with light reflectors	20" made by  4" wide	
Rims	aluminum	Controller : "Smart" controller - computerized with pedal assist and throttle
Front brake	Green Bike - Hydraulic disk brake	
Rear brake	Green Bike - Hydraulic disk brake	
Gears	Transmission 6 Made by 	
Front fork	Made by MOZO USA	Battery: 48 Volts 16 Amps Lithium Ion 5300 mAh manufacture by BOSTON POWER USA
Ergonomic seat	Wide adapted for urban electric ride with shock absorber	Intelligent Charging Charger (Computerized Control) 1-6
Front and back lights	LED switch with control switch Built-in electric horn	The "Crank" axis is made by 
Fenders	aluminum alloy 6061	
Crank	Nickel-plated aluminum arch	Performance:
Chain	Stained stainless steel  <i>Easy Life Easy Ride!</i>	Mph set according to standard 19.5 mph maximum speed with throttle
Suspension	Double suspension – Front fork with suspension and rear suspension Taiwan Kindshock A5 RE	The driving range for each load is 30-60 miles per charge, subject to road conditions for a person weighing up to 155 lbs. at 15 mph
Kickstand	steel	Net weight: 61 Lbs.



Lithium Li-On Battery 48V-16Ah Made by Boston Power U.S.A

Charger model 48-30 48V 110V-Ah

Made by SANS

For any questions or requests for clarification or reporting, please contact us:

Green Bike – Electric Motion

Main showroom: 7057 Reseda Blvd ,Reseda CA 91335

Phone: (818) 578-3665

Email: office@GreenBikeElectric.com

Website: www.GreenBikeElectric.com

Always at your Service!



Dear Client,

Green bike – Electric Motion. welcomes you on the purchase of the model: HF 201– 48N / HF 202-48N electric bicycle

is happy to be at your disposal for maintenance and fulfillment of manufacturer's warranty if necessary. Please carefully read the following warranty conditions.

The warranty provided by Greenbike Company is a comprehensive warranty for all mechanical assemblies and all electronic components of the bike provided that the fault is caused by reasonable use and the bicycle is maintained according to the user manual alone.

Please consider the following-

* The warranty will enter into force only after "activation" on the company's website, while filling in all the details as explained on the web page GreenBikeElectric.com within 30 days of purchasing the bicycle.

* The warranty for the frame, motor controller and the battery is 12 months.. There is no warranty for the battery that has been 24 months since its production date at the bottom of the battery. **The warranty is contingent on the existence of a warranty certificate signed by the store where it was purchased with a purchase receipt stating the serial number of the frame and battery.**

* The warranty will be canceled if electrical or mechanical changes are made without the written permission unless by a certified **Greenbike- Electric Motion** technician, including battery replacement / opening, or change in any other component.

*The warranty will be **canceled** if the use is unreasonable and not in accordance with the instructions: in the event of a crash due to accident or fall, in the event of neglect of the maintenance required, in case of natural damages, in the event of exposure of the bike to humidity or heat without adequate protection from rain, mud and direct sunlight.

* The warranty will be canceled if a non-original charger is used to charge the battery.

* The responsibility for the components of the electrical system will be canceled if mechanical condition resulting from poor use or maintenance or the manner of use contributed to the load on the electrical system. (Eg ... a curved or broken wheel)

* **Green bike - Electric Motion is not responsible for any damage caused to a third party as a result of the use of an electric bicycle or any damage caused to the rider as a result of an accident or use contrary to the instructions of the User's Guide, including indirect damage or expenses incurred by the cyclist .**

Further Clarification of the Warranty

* The warranty does not include the maintenance, direction or replacement of parts resulting from reasonable wear or use of bicycles. Including internal replacement in the event of a flat tire, worn tire, pads, cables, a disc brake or any other part whose wearout results from wear and tear.

* The warranty does not include the replacement of a part or repair resulting from external trauma or a fracture resulting from an accident or a fall, including , pulling cables from the electrical components, abrasion of the power cord, short circuit from the national electrical system . Or any damage caused by an external blow

* Green Bike- Electric Motion reserves the right to decide whether to replace the damaged part with a new or renewed one at its discretion.

* Green Bike- Electric Motion reserves the right to cancel liability and refuse to provide service in the following cases:

- If the customer refuses to perform maintenance or repair that may endanger the rider including a paid repair (eg brakes)
- In any case of verbal violence or other violence against a Greenbike – Electric motion employee or distributor

The warranty will be void in the following cases of damage to the product:

- Abusive or improper handling (eg operating errors, mechanical damage, incorrect operating voltage, faulty storage, improper connection, or faulty installations).
- Excessive environmental influence (moisture, heat, overvoltage, dust, etc.)
- Failure to observe any of the specified safety precautions in this manual.
- Failure to observe the operating instructions and / or recommended maintenance schedule.
- Use of force (eg impact, fall)
- Unauthorized attempts to repair the product without prior written consent by Green Bike Electric Motion
- Maintenance by a third party that is not authorized by Green Bike Electric Motion
- Commercial use of the product.
- Defects due to normal wear and tear, unless Green Bike Electric Motion voluntarily provides goodwill service within the first year. Removal or alteration of the frame number, serial number or any safety label attached to the product, will void the warranty. Green Bike Electric Motion will, by its own discretion, analyze every warranty claim on a case by case basis to decide if the claim is valid or not. All warranty claims should be submitted to the Green Bike Electric Motion e-mail office@GreenBikeElectric.com together with the necessary documentation and a clear description of the fault as well as contact information of the party submitting the claim for follow up. For any questions regarding the 1 year limited manufacturer's warranty please contact us by email or telephone

Office@greenbikeelectric.com

Telephone: 1(818) 578-3669

The warranty is given at **Greenbike- Electric Motion** workshop only or at a authorized workshop approved by Green Bike – Electric Motion , during the hours of operation, according to the work procedures, response times and pricing available to the customers in the website :

www.GreenBikeElectric.com . The responsibility for transporting the bikes to the workshop and returning to the customer's home is the customer's responsibility only and at his own expense

Warranty

To: **Green Bike – Electric Motion** ,

I hereby inform you that I purchased a **Big Dog Off Road**

In the shop _____ Street and number _____

City _____ ZIP _____ State _____

Invoice No. _____ Date of purchase _____.

Serial number of the bike (the number is stamped under the handlebar) _____ (last 7 digits)

Serial number of battery _____ (last 4 digits)

I will ask you to activate for me the warranty for the bike I purchased

Buyer Name _____ Family Name _____

_____ Cell _____

Email _____

I confirm that I received a safety and maintenance briefing and that they gave me a 'User's Manual'.

I confirm that I have read the manual. Customer's signature

Thanks for joining the green revolution of Green Bike – Electric Motion .



www.GreenBikeElectric.com