Folding Electric Bicycles MODEL: **Colt 48**

Customer Service:

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Dear client!

Green Bike – Electric Motion congratulate you on your newly purchased!

Joining **Greenbike's** Go Green revolution will open your doors to a whole new world of freedom!

Green Bike – Electric Motion 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!**

Easy Rider - Full Specification

1. Brake Handles 2. Grips 3.Handlebars 4. Adjustable Stands 5. Display 6. Gear Shifter 7. Front Brake Cable 8. Rear Brake Cable 9. Cable selector 10. Headlight and horn 11. Front brake 12. Tire and inner tube 13. Front Wheel. 14. Frame 15. Front fork 16. Front wheel chain (crank) 17. Gear shield 18. Electric pedaling unit 19. Rear shock absorber 20. Seat clamp. 21. Lithium Ion batteries. 22. Motor Controller .23 Pedal. 24. Chain. 25. Seat. 26. Rear light 27. Rear brake. 28. Rear Mudguard. 29. Transmission mechanism 30. Mechanism protection 31. Six-diamond gears 32. Engine.

- **For your safety** obey traffic and signage instructions!

- Do not allow an additional rider on the bike. This bike are designed to carry <u>one person only</u>.

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's not visible when adjusting. If the strip is not set correctly, excess pressure will be created and damage the cables.

- Be sure that the adjustment locking handle of the seatpost are in lock mode before starting the ride.
- 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 .

- 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.

-For your safety, 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.

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 watch a tutorial video on our website www.GreenBikeElectric.com

Before You Start to Ride

- Switch the key inside the battery
- Located on the handlebar - The digital Display - Long pres on the middle button during 3 seconds will be turned the LCD Display on.

The Electrical System is Now Ready!

• Fold the kickstand from the ground, 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.

• Display indicator: During the trip the battery will be drained according to use, and the battery meter will show its position with 4 indicator bars, and when the last one is left and flashing, close the switch and use the pedal as a regular bicycle.

In order to maintain the lithium battery life, do not empty the battery completely .

• To maintain battery life, do not empty the battery completely. 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.

• Park in a safe place that is not an obstacle to vehicles or pedestrians. Place the bike on the jack, disconnect the power with the main switch and pull the key out of the lock.

• The bike must be locked with a massive lock to prevent theft. It is recommended to lock the frame with the rear wheel and it is best to take the removable battery.

Charging:

- The battery must be charged only with the charger supplied with the bike. A lithium battery is charged only by a Charger designed to charge lithium batteries and not by a standard charger.
  Charging with a different charger will damage the battery and will revoke the warranty on the battery.

Do not open the battery or charger for testing! Inspection shall be done only by an authorized laboratory on our behalf or in the importer's laboratory.
The charger is designed for 110 volts. Do not use it in countries where the voltage is different.

- Charging takes between 4-6 hours depending on battery status. The battery can be charged outside the bicycle but also on the bike.
- The charging cable must first be connected to the battery and then to an electrical outlet.
- When the indicator light is red, charging is performed.
  When charging directly on the bike, make sure the main switch is off. When the indicator 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 damaged.
- **The charger becomes very hot during charging. Keep it away from any flammable material.**
- When the battery life is over, the battery should not be discarded but drop in a recycling point for lithium batteries **KEEP OUR WORLD GREEN**.
- 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 regularly tires pressure. The correct pressure is 40 PSI depends on the weight of the rider. Improper pressure will also cause the battery to overuse and shorten the cycling time.
- Do not drive in puddles. If water enters the engine, the controller or the battery house, it can cause damage or get short circuit.
  Water drive will void the warranty provided by the manufacturer.
  The bike must be stored in a dry place. Overly humidity causes corrosion in the electrical parts. Do not leave the bike in the rain.
- Do not put the bike in the beating sun, especially if you leave the battery installed on the bike.
- Do not disassemble the electrical parts. Disassembling them independently will void the warranty provided by the manufacturer.

Maintenance:

- It is important to lubricate the moving mechanical parts such as the wheel hinges, transmission and gear, cable connections to the brake pads etc. The oil parts should not be oiled. Do not lubricate the electrical.
- Brake: 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 optimally tuned.
- If the brakes is not tuned and unnecessarily touches the wheel while driving, the power of the battery would be wasted in vain and the brake will wear out.

- An unintentional brake creates unnecessary and damaging resistance to the bicycle and the life of the electrical system!!!
- Be sure to replace the brake pads before they wear out, because in such a situation metal touches the metal, the braking ability is damaged and the brake system is damaged.
- In Figure 6 you can see a stretched handle in optimal position.

Bicycle cleaning

- For maximum performance of the bike, it is recommended clean them of sand and mud. If you cannot clean the entire bike, you must clean at least the propulsion system (chain, front and rear gears).
- Cleaning frequency: once every three or four propound rides or after every ride where the bike gets dirty.
- You must have a bucket with water, soluble fats, a kitchen swab for washing dishes, rags, and a special brush with hard fibers.
- Never wet the electrical parts. Wet part can short circuit and will void the warranty provided by the manufacturer.
- Washing: wash all parts of the bike (except of the electrical system parts) using a sponge. The hard brush is for removal heavy dirt from the gears, pedals, etc.
- Drying: Dry the bike with the rags and place them in direct sunlight until full drying (preferably not washed at night or in stormy weather). Immediately after washing and drying, lubricate the chain. The brakes are recommended to be cleaned with a specialized material for it.
- When cleaning, be careful not to wet the electrical parts and cables. Do not spray on battery, controller, monitor and any wiring system, so do not use running water / hose.

National and municipal safety regulations must be obeyed
The bike is designed for riding in the city
Please wear a helmet for your safety
Any change in the bike without the importer's approval will void the warranty!
Maximum loading weight includes luggage: up to 220 pound
Keep proper maintenance of bike

Manual

LCD-S900 Ebike Intelligent Display

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

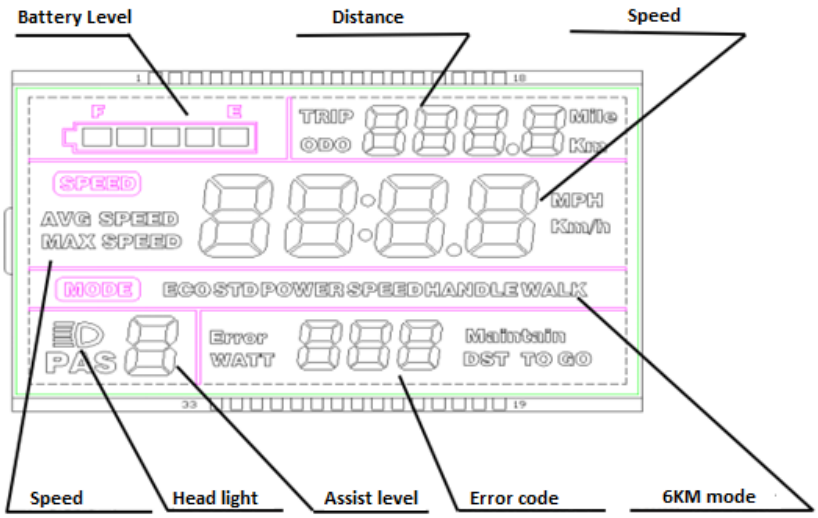
8) Distance：
ODO/Trip/Driving duration

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：** 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**

3. Press button definition

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

 “UP”、  “MODE”、  “DOWN”。

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 off, and 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

Figure 4

Figure 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。

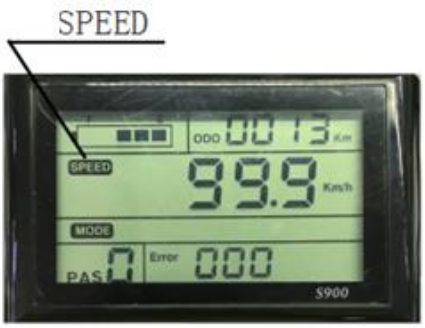


Figure 7

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

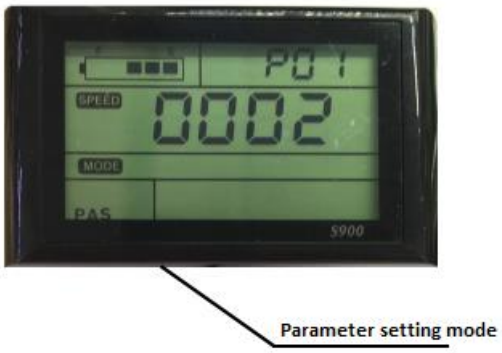


Figure 13

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 kmh/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

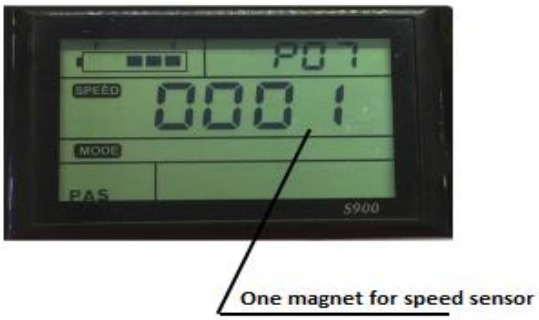


Figure 21

8) P09-Non-zero speed start：

Short press  to switch from0 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)

Figure 24

10) **P11-assist sensitivity setting：**

Short press  /  to switch from 1 to 24

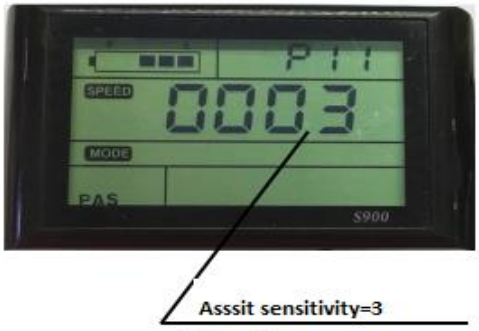


Figure 25

11) **P12-assist starting power setting:**

Short press  /  to switch from 0 to 5:

Figure 26

12) **P13-Assist magnetic disc types**

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

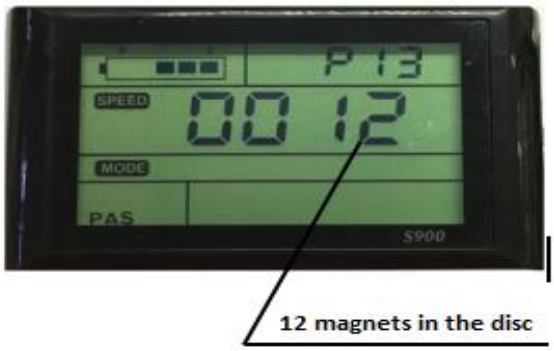


Figure 27

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

Figure 30

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)

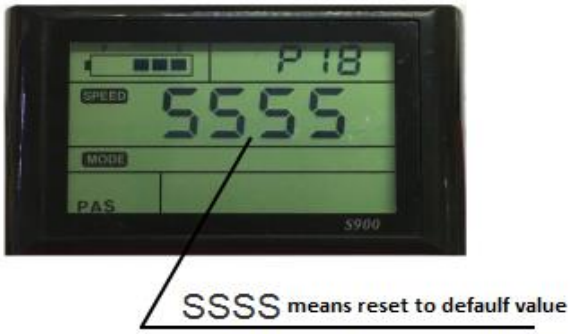


Figure 32

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℃
7) Storage temperature：-30~80℃

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℃, the screen will be a little darker than normal, when the temperature increases, the screen can go back to normal

Component, dimensions and weights:

	Components:	Electronics:
Frame	6061 aluminum alloy	Motor: 350W without coal (brushless Hi Speed) With three-layer gere for long durability
Type	Folding electric bicycles	
Tiers	20"×2.1" made by KENDA	
Rims	100% Aluminum	Controller (PAS): "Smart" controller - computerized with pedal assistance according to the European standard. 
Front brake	Green Bike Electric Motion Hydraulic brakes	
Rear brake		
Manual gear transmission	6 Speed manufacture by SHIMANO	
Front fork	aluminum 140 mm trave manufacture by MOZO USA PERFORMANCE BICYCLE PRODUCTS **downhill** adjustable	Battery: Lithium Li-On Battery 48V Manufacture by LG/Panasonic/Samsung
Saddle	Wide and suitable for urban electric road with rear shock absorber Manufacturer by VELO	Charger: Smart charging (computerized control), **Sameyoung** model 48 - 25
Headlight	LED lights with control switch with Built-in electric horn	Crank manufacture by neco
Fender	Plastic	Performance: Maximum speed: 20 mph with throttle , 28 mph with pedal assist A driving range per charge: for a person weighing 155 pounds in plane area is up to 45 miles. Subject to road conditions in mode 1 using pedal assist without using the throttle Net weight: 54 pound
Chain	Stained stainless steel KMC Easy Life Easy Ride!	
Front gear	Steel arch in Nickel plated 52 teeth	
Pedal axis	Manufacturer by neco	
Kick stand	Aluminum	

Remember:

Do not allow another rider on bike.

Disconnect the charger from the power source at the end of each charge.

Do not leave a bike / battery charging unattended.

The bike is a vehicle – Ride wisely and carefully

Always at your Service!

Warranty

You are provided with a one year limited manufacturer's warranty from the date of purchase. Details regarding the warranty coverage and registration of your product can be viewed on the Green Bike Electric Motion webpage below

https://www.greenbikeelectric.com/service/

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

I hereby inform you that I purchased a ***colt 48***

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

_____

Thank you for joining the Green Revolution

GreenBike®
Electric Motion