

Dragon SPIRIT

Owners Manual



dragone**bikes**TM
Save the environment. Ride a Dragon.TM
1-866-647-2595

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Safety Information

Please read the entire owners manual before operating your Dragon Spirit, failure to do so may result in damage to the electric bicycle (ebike) or injury to the operator.

Be sure all components of the ebike are intact before operating. If any problems are discovered please contact your local Dragon eBikes Dealer.

- I. **DO NOT** use this unit for any purpose other than as intended, modifications to the unit may be dangerous for the operator and will **void all warranties**.
- II. **DO NOT** operate this ebike if your health or medications you are taking affect your ability to do so safely. We advise that you check with your physician before driving this unit.
- III. **DO NOT** use this unit if you are under the influence of ANY recreational drugs or alcohol.
- IV. **DO NOT** attempt to climb any incline that poses a threat to stability and remember to reduce speed when making a turn.
- V. **DO NOT** attempt to charge batteries that may be frozen.
- VI. **REMEMBER** this units capacity is limited to TWO people only, it has NO towing capabilities and we recommend NOT exceeding the weight limit listed in the specifications.
- VII. **REMEMBER** ebikes travel at a much higher speed then your average bicycle, ALWAYS USE CAUTION when driving the ebike. You should be comfortable controlling and driving a regular bicycle before attempting to operate an ebike.
- VIII. **ALWAYS** obey ALL ebike and road laws. Remember to share the road!
- IX. **ALWAYS** use a grounded receptacle when charging your ebike, failure to do so may result in electrical shock or damage to the charger and/or ebike.
- X. **ALWAYS USE CAUTION** if operating the unit in non-ideal conditions, keep in mind moisture can negatively affect various parts of the ebike.

If you have any questions or concerns **DO NOT** hesitate to contact your local Dragon eBikes Authorized Dealer or our Head Office TOLL FREE 1-866-647-2595.

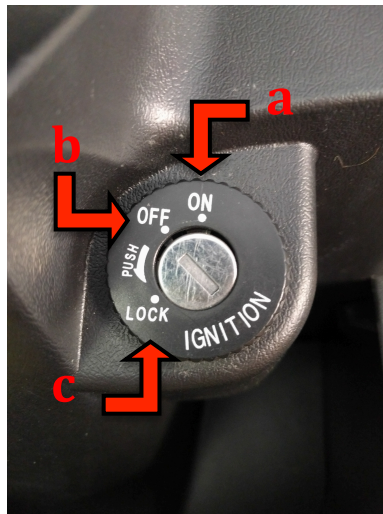
Specifications

Color:	Black & Silver, Blue & Silver
Weight Capacity:	352lb (160kg)
Speed:	32km/h
Travel Distance:	Up to 75km *
Battery:	84V/20Ah Sealed Lead Acid Battery
Charger:	100-240V/AC50-60HZ, Smart Charger
Charging Time:	5 to 10 Hours
Climbing Angle:	25 Degrees
Tires:	10" x 3" Puncture Resistant Bike Tires
Motor:	84V/500W Brushless Motor High Torque
Brake System:	Front and Rear Drum Brake
Frame:	Heavy Duty Steel Frame
Handle Bar:	Chrome Plated Steel
Stem:	Steel
Front Fork:	Alloy, Suspension
Meters & Indicators:	Battery level Indicator, Speedometer, Light Indicators
Lighting System:	LED Headlights, Tail Lights, Turning Signals, Brake Lights
Storage:	Under-Seat Storage, Rear Box Storage
Security:	Battery Lock, Security Alarm, Front Wheel Lock
Length:	177cm
Width:	69cm
Height:	102cm
Gross Weight:	187lb (85kg)

* Travel distance measured in ideal conditions on flat terrain and mild temperatures carrying a 175lb operator.

Operating your eBike

- I. To prevent injury ALWAYS ensure the power is turned OFF while getting on and off your ebike. Be sure to inspect your ebike prior to each ride, please refer to the Standard Ebike Maintenance section of this manual for proper care instructions.
- II. Once seated, make any necessary adjustments to the mirrors and remember to fasten your helmet.
- III. Place your key in the ignition and turn to the ON position to start the unit. There are three ignition positions:
 - a. ON
 - b. OFF
 - c. OFF With Front Wheel Lock



- IV. To engage the front wheel lock you must turn the handlebars all the way to the left, push the key in then turn your key to the **c** position. To dis-engage ensure the handlebars are turned all the way to the left and turn your key to the **a** or **b** positions.

- V. Once the unit is turned on you can turn your lights on and off. There are separate switches to turn on the lights, change your headlight from high beam to low beam and for your right and left signal lights. Please refer to the picture below for the location of these controls.



- VI. The speed control switch controls and limits the speed of your ebike. There are three speeds; H is high speed, M is medium speed and L is low speed. L is ideal for initial pickup, once you have reached top speed switch to M then H.



- VII. Use the throttle to GO as well as control the speed. When the throttle is turned towards the rider the ebike will go forward. The speed and the battery indicator are located on the dash. We advise driving at low speeds until you are comfortable riding the ebike.



- VIII. The brakes for your ebike are very similar to a conventional bicycle; to engage the rear brake the rider must pull on the left brake lever, to engage the front brake the rider must pull on the right brake lever. Use both brake levers to stop quickly or use the rear brake lever to come to a gentler halt. When braking all power to the motor will be disconnected.
- IX. There are two kickstands on this ebike; the side kickstand and the center kickstand. The side kickstand is similar to the conventional bicycle kickstand, once kicked down the bike leans to the left. When parking your ebike we suggest always using the center kickstand for maximum stability and safety. The center kickstand is engaged by pressing down with your foot, grasping the metal basket bracket and lifting up. The ebike will move backwards.



- X. The key FOB is used to lock and unlock your bike without inserting the key. It will also allow you to automatically start your ebike and sound the alarm (bell). The different buttons are shown in the picture below. If using the automatic start button (thunder bolt), use the unlock button to turn the machine off.



- XI. In order to gain access to the under-seat storage as well as the master fuse you will need to insert the key into the lock mechanism on the left hand side of the ebike above the rear wheel.



- XII. In order to open the rear-box storage insert the key into the lock mechanism, hold the key in the open position and lift up the top of the storage box.



Batteries and Charger

The Dragon Spirit is equipped with 84V/20Ah sealed lead acid batteries. These batteries are maintenance free and allow for an extended travel range. The batteries take 5-10 hours to fully charge and will last for up to 75km.

We suggest you charge your batteries when you first receive your ebike and whenever the battery indicator tells you the battery is low. DO NOT charge for more than 12 hours and REMEMBER to charge at least once a month even if the ebike is not being used.

To charge your ebike:

- I. First plug the charger into the charging port of the ebike located under the seat
- II. Plug the other end of the charger into a grounded 110V power outlet
- III. Confirm charging, a red light on the charger indicates the scooter is charging and a green light indicates the scooter is fully charged.
- IV. Once charging is complete unplug charger from the outlet then from the scooter.

Standard e-bike Maintenance

Proper electric bicycle maintenance is really no different than the maintenance needed for any other conventional bicycle. The electric components require little or even no maintenance and all the other bicycle parts require the same maintenance that is needed for any standard bicycle.

But electric bikes require more care since they will usually be ridden farther and faster than a conventional bicycle. And anything that slows the bike down (like dirt in the gears or deflated tires) forces the battery to work harder. This shortens the time between charges and means you can travel less distance on a single charge.

Regular cleaning

Cleaning the bike often will help to keep dirt, dust, and debris from getting into the engine and messing with the motor. It also helps to keep all the mechanical parts moving properly without grinding against each other or blocking the chain. E-bikes should be washed once per week depending on how often it is used.

When you clean your e-bike, do not use a pressurized hose or stream of water. This might compromise the integrity of the seals around electrical equipment and wear them down, eventually leading to exposed and wet electrical systems that will then malfunction. Instead, use a low-pressure water stream or a wet rag and dry the bike off once you're done washing it.

Lubrication

In order to keep all the mechanics in working order, you can apply lubrication on the major moving parts such as the chain. You should use a special cleaning solution to clean off the chain before applying a bike lubricant to it. This should ideally be done at least once a week if you use the bike often.

Check the bolts

Do a quick once-over and check for any loose screws, bolts, nuts, or anything else on the bike. If there is too much play in the bolts, tighten them up a little bit and see if you can identify the cause of the looseness. Do not over tighten the bolts.

Tire pressure

The sidewalls of your bike tires should tell you how much pressure is ideal for proper use of the bike. You can check to see what the current pressure is in the tires by using a simple pressure gauge. If it's too low, or if the tires can visibly sink when you push your finger into them, you should get out your bike pump and inflate them properly to the pressure indicated on the tires.

Brake pads

Take a good look at the brake pads on your bike every few weeks to see how they are holding up. It's essential that you have effective brakes or else you could end up in a serious accident. Brake pads can easily and cheaply be replaced whenever necessary.

If you are not sure about something, call or take the bike to your bike shop. Just remember:

- I. **DO NOT** use aggressive water sprays or power jets when washing the bike: keep water off the battery as much as you can
- II. **DO NOT** leave the bike out in the rain or snow: store it somewhere dry and out of direct sunlight
- III. **DO NOT** open up casings, chargers, etc. You are unlikely to be able to reseal them effectively, making them more susceptible to water damage
- IV. **ALWAYS** Dry off the bike after washing it, or after riding in the wet

For the most part, every e-bike we sell is weatherproof. But this does not mean they're water-tight! If you submerge any of these products in water, it will seep into the openings and likely cause damage. These products are fine in light rain or damp riding conditions. But during heavy down pours or deep puddling, we recommend pulling over and waiting for the weather to subside. If you plan on riding in the rain on a regular basis, we recommend taking some extra steps to further waterproof your e-bike. This includes ensuring all electrical connections are wrapped in electrical tape and all connectors and exposed openings are sealed with clear silicone.

If you have any questions or concerns **DO NOT** hesitate to contact your local Dragon eBikes Authorized Dealer or our Head Office TOLL FREE 1-866-647-2595.

<http://www.electric-bicycle-guide.com/bicycle-maintenance.html>
<http://scooteretti.com/maintaining-your-electric-bike>



Contact Information

Thank you for choosing Dragon eBikes! Never hesitate to contact us with any questions or concerns you may have.

www.dragonebikes.com

TOLL FREE: 1-866-647-2595