Jetson

ELECTRIC MOUNTAIN BIKE

USER MANUAL

MODEL#: J2000-BLK

Congratulations on purchasing your brand new Jetson® Electric Mountain Bike. The Jetson® Electric Mountain Bike is stylish and reliable, and with a long range of 30-40 miles per charge it can take you anywhere you want to go. Use it for your daily commute and still have enough juice for those fun leisure rides. Charging only takes 4 to 5 hours for a full recharge, so you're ready to go in no time. With front and back breaks, and an LCD Digital Display loaded with features, you know you'll be safe riding at all times of the day. Please cycle safe, follow your local laws, and take it for a ride!

Before taking the Electric Mountain Bike for a ride, please get adjusted to its speed, turning radius, and sensitivity to avoid any injury.

FEATURES

- LCD Digital Display with Speed, Odometer and Battery Life
- Motor Assistance While Riding
- Built-in Kickstand
- Shimano 7-Speed Gear

IN THE BOX

- **Electric Mountain Bike**
- **Lithium Ion Battery Set**
- **Pedals**
- **Charger**
- **Manual**

SPECIFICATIONS

- Range: Up to 40 Miles Per Charge
- Weight Limit: 265 Lbs
- Braking System: Front + Rear Disc Brake (Brake for Each)
- Motor: 500 Watt Brushless Electric Motor
- Charge Time: 4-5 Hours Fully Charged
- Battery: Lithium-Ion 36V 10Ah
- Weight: 65 Lbs

SAFETY FEATURES

- Front and Rear Disc Brakes
- Hydraulic Brake Lever
- Easy Grip Handlebars
- Energy-Saving Auto-Shutdown

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CST SPORT
CST SPORT

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FOR YOUR SAFETY...

The Jetson® Electric Mountain Bike is designed to hold a maximum load of 265 pounds, and run for between 30 and 40 miles per charge (depending on road conditions and driving factors). For your continued safety, we recommend taking the following precautions:

- Do not operate this electric bike without carefully reading the manual and understanding its controls.
- Always wear a helmet, gloves, and other protective gear before riding to protect yourself in case of an accident.
- Observe all traffic rules and regulations when using this electric bike.
- Do not carry passengers.
- When riding in rainy, snowy, or slippery conditions, reduce your speed and increase the distance between yourself and other vehicles.
- Only use this electric bike in ambient temperatures between 14 and 104 degrees Fahrenheit.
- The maximum weight capacity of the bike is 265 pounds.
- Certain high-intensity conditions (such as frequent braking and starting, uphill riding, muddy roads, and the like) will drain the battery quickly, affecting the mileage per charge. We recommend you avoid the above factors when riding.
- If the storage battery is not used for more than a month, charge the electric bike for a full cycle again before use.
- Do not allow water to enter the controller or motor wheel, as it may cause the electrical equipment to short circuit or be permanently damaged.
- Do not allow anyone to manipulate or modify the electric bike. This immediately voids the warranty.
- Do not throw away the batteries. Always recycle batteries at a proper recycling location.

ABOUT YOUR ELECTRIC BIKE...

The Jetson® Electric Mountain Bike has many special functions and uses that help bring your riding experience to the next level. Please be sure the cyclists using the electric bike know the required driving techniques before taking the electric bike on the road. For your convenience and security, pay attention to the following:

- In the process of regular use, pay attention to the fastening status of the motor and rear fork. If you notice it begins to loosen, tighten it before use.
- When starting the power supply or beginning to ascend a steep slope, use the pedals for as far as possible to reduce the starting current and extend the battery life.
- In rainy conditions, pay attention to when the water depth is more than the center point of the wheel. These conditions make it more likely for the motor to become soaked in water, resulting in electrical failure.
- Always use the provided charger to charge the electric bike.
- Do not cover the battery box or charger. Always allow proper ventilation when charging and using the electric bike.
- Maintain proper air pressure in the tires. This helps prevent increased resistance when driving, minimizes the wear on the tires, and reduces the risk of damaging the rims.
- When going downhill or riding at high speeds, do not use the front brakes. This avoids sudden changes in the center of gravity and reduces the danger of accidents.

Installation of the Front Wheel

1. Take out the front wheel, and loosen the nut and hook on the front wheel axis.

2. Make sure the disc plate is inserted into the disc brake notch. Place the front wheel axis into the front fork contact pin, as seen in the image to the right.

3. Place the washer on first, then tighten the nut with a 15mm opening wrench.

NOTE: When fastening the nut, press down on the front fork so that the front wheel axis can line up tightly with the front fork.

Installation of the Steering Handle

STEP 1

STEP 2

1. Take out the handle bar, and remove the protective paper from above the handle bar and stem.

2. Place the stem on the front of the bike frame, and line it up with the front wheel.

3. Tighten the stem with the 5mm hexagonal spanner, as pictured in **Step 1**.

4. Tighten the stem with the 6mm hexagonal spanner, as pictured in **Step 2**.

5. Place the handle bar in the stem and tighten the four bolts with the 5mm hexagonal spanner, as pictured in **Step 3**.

6. Ensure that the thread position on the handle bar is in the middle of the stem, as pictured in **Step 4**. Tighten all bolts on the stem and handle to lock all pieces into place.

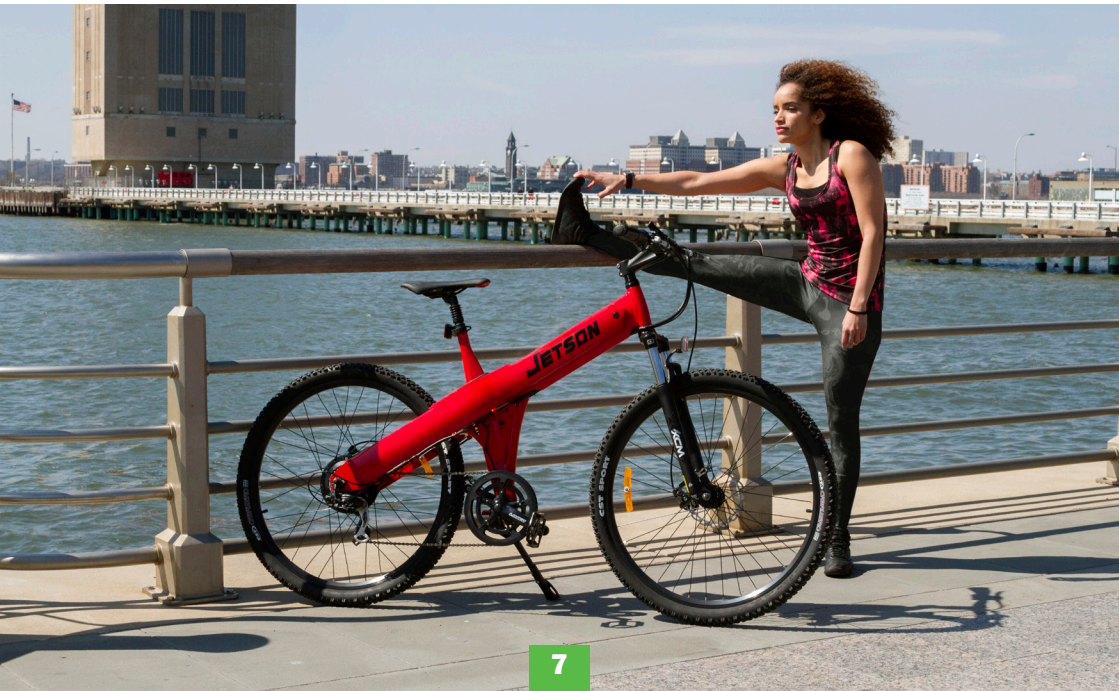
STEP 3

STEP 4

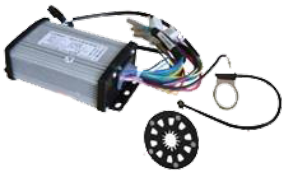
Assembly Requirements

In order to ensure safety and continued performance, tighten all fastenings to the following torque specifications:

1. **Front Wheel Nut**: no less than 18N.m
2. **Rear Motor Nut**: 35 to 45N.m
3. **Middle Axis Component Lock**: no less than 50N.m
4. **Core Screw Rod (in the Vertical Handle Stem)**: 15 to 18N.m
5. **Across/Vertical Handle Stems**: 15 to 18N.m
6. **Saddle Pipe Ring**: 6 to 8N.m
7. **Saddle and Seat Post Ring**: 15 to 18N.m
8. **Brake Handle**: no less than 10 to 12N.m
9. **Derailleur**: 8 to 10N.m



Speed Boosting System



The Speed Boosting System (also known as the 1:1 Boosting System) assists with manual operation of the electric bike. When pedaling, it will automatically sense your riding speed and assist accordingly, to make your ride easier.

The boosting system is comprised of three parts: a Controller, a Sensor, and an Induced Cartridge.

Charging the Battery

Charge the battery before your first use. To obtain a full charge, it is recommended that you charge the battery for 6 to 8 hours. After your first charge, use the electric bike until the battery is fully drained. Then, charge the battery again for 8 to 9 hours. This cycle will help activate the battery, and ensure the longevity of the battery's life.

Only use the included charger with this battery. The use of chargers not designed for the electric bike will void the warranty. Using other chargers may do permanent damage to the battery, and could lead to unexpected dangers.

To charge the battery:

1. Check that the voltage of your power source matches the rated input voltage of the charger.

2. Connect the output plug of the charger with the charging jack of the battery. Connect the plug into an AC power supply.

3. Check that the power indicator light and the charge indicator lights are on. This shows that the battery is charging properly. When the light turns green, the battery is sufficiently charged.

4. After the battery is fully charged, unplug the cable from both the AC power supply and the battery.

NOTE: The battery should be charged away from high temperature, high humidity, and fire. Do not overcharge the battery, as that will reduce its longevity. Once the battery is fully charged, unplug it as soon as possible to avoid overcharging.

Display Adjustments

MODEL: 861-A | Operating Voltage: DC36V

The LCD Display helps you control many features on your electric bike, including adjusting the Assistance Level (the amount of motor assistance during normal riding), tracking your speed and distance, and setting the cruise control on your bike.

To increase the Assistance Level, press S+

To decrease the Assistance Level, press S−

To switch between speed display modes, press and hold S+

To set/release cruise control, press and hold CUR

To turn the LCD screen on/off, press and hold ⏻

To switch between the different displays, press ⏻

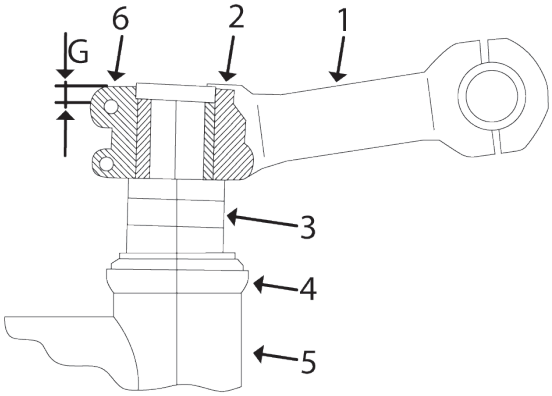
Parameter Settings

Press and hold S+ and S− to enter the Parameters menu, where you can adjust the following settings:

P01: Rim Size in inches (5-50)
P02: Unit of Magnet Numbers (1-100)
P03: LCD Brightness (1 [dark] - 3 [bright])
P04: Distance Setting (0 [KM] - 1 [MILE])
P05: Battery Voltage (24V - 36V)
P06: Sleep Timer (0-60 minutes)
P07: PAS Setting (power assistance, 20.0-60.0)
P08: Drive Mode (0 [PAS Drive], 1 [Electric Drive], 2 [PAS and Electric Drive])

Press S+ or S− to adjust the value. Press CUR to save the current value. Press ⏻ to go to the next Parameter. Once you are finished setting the Parameters, press and hold S+ and S− to exit the Parameters menu.

Vertical Handle Stem Position



1. Stem Extension
2. Extended Fork-Stem
3. Spacer Rings
4. Bearing Assembly
5. Head Tube
6. Stem Extension to Stem Clamp

The position and adjustment of the Vertical Handle Stem is very important, as it allows for full mobility with the steering system. Make sure that the distance of "**G**" in the figure above is under 5mm. The upper part of the fork-stem where the stem extension is clamped should not be threaded.

Seat Position

The seat post has a safety line (known as the Max Line), and when inserted it should not be visible above the seat connector. Any position higher than this may cause serious injury to the rider.

To adjust the seat to the proper height, set a pedal to the lowest position and sit on the seat. When you press your heel flat onto the pedal, your leg should be slightly stretched but not fully extended. If you cannot touch the pedal without using your toes, or if you cannot stretch your leg when the pedal is at its lowest position, the seat needs to be adjusted. The wrong seat height can lead to possible fatigue and injuries. Move the quick release handle on the seat post to **OPEN**, adjust the seat, and then close the quick release handle to set the position

Set the seat angle with the front end slightly upward. This helps to avoid leaning forward when riding. The front and rear of the seat can be appropriately adjusted based on individual height. Generally, the seat bar is set in the middle.

Understanding the Brake System

The brake system is a necessary part of any bike, and is key to the overall safety of the rider. Before using this electric bike, you must understand the brake system, and feel confident when inspecting it and doing any adjustments that are necessary.

A common misconception about brakes is that when you press hard on the brakes, the bike will stop in a short distance. However, it's important to understand that when you press hard on the brakes, the wheels become suddenly jammed by the brake rubber, and the bike glides horizontally, wearing down the tires and the brake pads. This is not only dangerous, but it also lengthens the distance needed to reach a full stop. It's important to think about the brakes as a way to adjust the speed of the bike gradually, rather than a way to bring the bike to an immediate halt.

The brake system is comprised of the Brake Handles, the Disc Brake, and the Brake Cable.

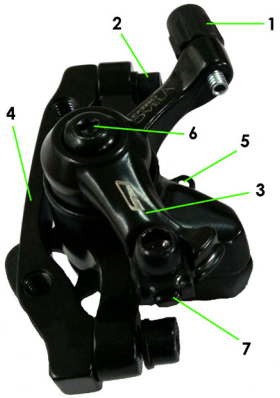
NOTE: Make sure the distance between the Brake Shoe Block and the Rim is the appropriate size. Adjust according to the instructions detailed on the next page. If the Brake Shoe Block or Brake Cable become worn or damaged, please replace before using the electric bike again. When riding in rainy conditions, the function of the brakes will be weakened, so please reduce your overall speed and allow for a longer braking distance.

Brake Handles

The structure of the Brake Handles is as shown in the image on the left. The right brake handle controls the front brake, and the left brake handle controls the rear brake. The adjusting screw is used to adjust the distance between the brake shoe block and the rim.

The best placement of the brake cable is about half the distance between the brake handle and the grip of the Across Handle Stem. If the brake is tight when the Brake handle is approaching the grip of the Stem, then the distance between the brake show block and the rim is too large and must be adjusted.

Disc Brake



1. Stoke Adjusting Bolt
2. Position Adjusting Bolt
3. Rocker Arm
4. Permanent Seat
5. Brake Shoe Block
6. Shoe Block Adjusting Bolt
7. Permanent Seat of Brake Line

To adjust the brake shoe block:

1. Loosen the position adjustment bolt.

2. Use the left and right knobs to adjust the distance of the shoe block. The left knob increases the distance of the brake shoe block, and the right knob decreases it. This adjusts the braking abilities of the electric bike.

NOTE: Do not oil the surface of the Brake Disc, this may lead to serious braking problems.

Brake Cable

- The brake cable should be arranged in as straight a line as possible. Please avoid any turns or curves in the cable, as that will affect braking capabilities.
- To avoid splitting of the cable, make sure that the tail sleeve fully covers the line end.
- Take the brake cable out regularly to oil it, this helps avoid resistance from rust build-up.
- The length of the brake cable is meant to allow the cable to remain unstuck when the handlebar turns sharply left or right. Please test that the cable does not get tangled by testing the turning of the handle bar before operating the electric bike on the road.

Speed Control System

The Speed Control System is made to help you travel through various terrains and conditions easily by adjusting based on the strength of your pedaling.

The Speed Control System is comprised of a Derailleur, a Front and Back Fender, a Chain Plate, a Flywheel, and Shift Cables.

NOTE: Do not backpedal when shifting gears, this could potentially lead to the a failure of shifting and the chain falling off. Do not change gears substantially, always shift gradually and in accordance with the speed at which you are currently travelling. Shifting up or down multiple gears at once will lead to more rapid wear and tear of the Speed Control System. The chain, fluted disc, flywheel, and Derailleur should always be washed, wiped, and oiled appropriately.

Derailleur

The Derailleur is a 7 speed dial type, positioned on the right side of the handlebar. When the large trigger is pushed, the gear shifts to a lower gear, while the button at the bottom of the Derailleur shifts to a higher gear. Lower gears are preferable when riding up inclines, while higher gears are great for downhill speeds.

The Derailleur is attached to the Back Fender. When the shift cables are too loose or too tight, or if the speed controller does not work properly, the H and L Bolts need to be adjusted.

To adjust the H Bolt to its proper position, adjust the chain so that it's on the smallest flywheel, then turn the H screw so that the guide pulley with the smallest gear is on a straight line. To adjust the L Bolt, set the chain to the largest flywheel, then turn the L screw so that the guide pulley with the largest gear is on a straight line (as shown in **Figure 1**).

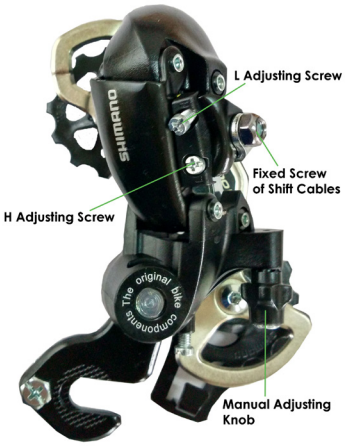


FIGURE 1

Bike Chain

The chain must maintain a slight sag to be able to switch between gears when shifting. It is important to make sure that the chain is the proper length, or the cycling performance will be affected negatively.

To determine the length of the chain, adjust the Back Fender to the lowest gear, the chain should sag 15mm or less (as shown to the right). If the chain sags more than 15mm, the chain is too long and must be shortened by the supplier to maintain the best cycling performance for your electric bike.

Damping System

The Damping system helps keep the tire buffer in contact with the ground when the electric bike is running on uneven road. This helps you feel more comfortable during difficult conditions.

Damping hardness can be adjusted by rotating the Damping Coefficient (as seen on the left), according to road conditions and personal preference. The Damping system can be found on the Front Fork, please check Page 3 to locate it on the electric bike.

To adjust the damping, rotate towards the **+** sign to increase the damping hardness. Rotate towards the **-** sign to reduce the damping hardness.

NOTE: Do not adjust damping while in motion. Be sure to test damping levels fully to match your preferences.

Routine Inspection Before Use

Regular maintenance and inspection helps lengthen the lifespan of your electric bike. Before riding, it is important to check the following:

- Make sure the battery box is secured in the slot of the battery box.
- Turn on the LCD Screen and check that all electrical functions are behaving normally.
- Make sure the braking power-off function and the brakes themselves are in good condition.

NOTE: Do not perform any maintenance that involves removing parts or components. As with all mechanical components, this electric bike will endure wear and high stress. These components will react to wear and stress in different ways, so it is important to regularly check and, if necessary, replace worn-down parts.

Battery Care and Maintenance

- **Keep the battery out of extreme temperatures.**
- **Operating temperature when charging:** 32° - 113° F.
- **Operating temperature when discharging:** -4° - 113° F.
- Do not short circuit the discharge/charge terminals of the battery.
- Do not leave the battery charging overnight, or for long periods of time.
- To avoid damage to the battery, do not subject it to intense physical shock, severe vibration, or strong impacts.
- Do not expose the battery to water or other moisture. Protect the discharge/charge terminals 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 and store it safely.
- Do not disassemble the battery.
- If you have any questions about this battery or its usage, contact the Customer Service department.

Charger Care and Maintenance

- Prior to your first ride, charge the battery fully as described earlier in this manual.
- Make sure the charger is at least 3 feet away from computers, televisions, refrigerators, washing machines, and other electric devices while charging.
- Only use the charger indoors, and make sure the conditions are dry and below 113° F.
- Only use the charger supplied in the box, and do not charge other types of batteries with this charger.
- If any strange smells appear while charging, unplug the charger immediately and contact Customer Service.
- Do not use this charger in dusty or damp places.
- Always plug the charger into the wall outlet prior to plugging it into the battery.
- When the charging is complete, first unplug the charger from the wall outlet, then unplug it from the battery.
- Do not let children play with the charger.
- Do not disassemble the charger.
- Do not put any liquid or metal into the charger.
- Do not put anything on top of the charger, and always keep it in a well-ventilated area when the charger is plugged in.
- Do not disconnect the battery while charging.
- Do not use the electric bike or any of its functions (such as the motor or LCD Screen) while the battery is charging.

Everyday Use and Inspection

In everyday use of the electric bike, a number of mechanical and electrical parts will be worn down, and screws or other fasteners may also become loose. Either of these situations could potentially cause the electrical appliances to cease functioning. It is important to check your electric bike before every ride for irregularities, because these problems could lead to mechanical failures and dangerous riding situations. It is your responsibility to address the issues as soon as possible.

Regular Cleaning

- Remove the battery box from the electric bike before cleaning.
- Do not use water to clean the electric bike.
- Delicately wipe any painted or plastic parts with a soft cloth and a neutral cleaning solution. Carefully dry the parts with a soft, dry cloth to finish.
- Clean the battery contacts with a damp cloth of neutral cleaning solution.
- Do not use grease or a greasy cloth when wiping down the electrical connectors, brake pads, wheels, tires, or plastic parts.

Regular Maintenance

Every 1 to 2 months, it is recommended that you check the following:

- Check that the handlebar and saddle post are correctly inserted and tightened.
- Check that the wheel hub mounting nuts are correctly tightened.
- Check that the wheel rims are not cracked and that no spokes are loose or broken.
- Check that the tires are not worn or cut.
- Check that the tires are correctly inflated.
- Check that the battery contacts on the frame are not dirty or oxidized.
- Check that the batteries are sufficiently charged.
- Check that the front and rear brakes are working correctly.
- Check that the cables are sufficiently greased, and that the brake pads are in good condition.
- Check that the frame welds are in good condition, and are free of corrosion or oxidation.

A proper cycling posture is important to your safety while operating the electric bike. Good posture is based on the height and size of the cyclist, so it's important to adjust the electric bike when changing cyclists. To adjust the bike to fit your needs, follow these three steps:

1. Adjust the position of the seat: Push the pedal down to the lowest point, and press on it with your heel. Adjust the seat height so that your legs can extend comfortably but are not overextended.

2. Adjust the front and rear position: Push the pedal to a 45° angle, then adjust the seat forwards or backwards so that your legs can comfortably reach the pedals.

3. Adjust the height of the handlebar: The upwarping type of handlebar is typically 30 to 50mm higher than the seat, while the flat type of handlebar is the same height as the seat.

NOTE: After adjusting, make sure that the seat and handlebar are tightened into place.

Sitting Posture

The cyclist's weight should be evenly distributed between the handlebar and the pedals. This helps prevent hip pain while using the electric bike.

Proper Pedaling

The proper position for pedaling is the middle of the foot is the middle of the pedal. Feet should be parallel to the center of the bike while pedaling. If the feet are too open or narrow, it will diminish the efficiency of the pedaling and could cause pain or physical stress.

When to Change Gears

The gears on your electric bike are meant to assist in times of uneven pedaling. So, the speed change is intended to be more labor-saving and comfortable. Some examples of good times to shift gears are: climbing uphill terrains, uneven road surfaces, against strong winds, and when the cyclist is feeling tired.

Braking

Always maintain a safe distance when riding, as braking is meant to be a gradual process. Using both brakes at once will produce a quicker stop, but also creates the risk of throwing the rider off the bike. The best method is intermittent braking, which achieves an eventual stop without drastic changes of speed.

TROUBLESHOOTING

Issue	Potential Cause	Solutions
Failed speed change, or very low velocity.	• Low Battery Voltage. • Bad governor handle. • Bad controller.	• Charge the battery. • Replace the governor handle or controller.
Motor does not work when the power is turned on.	• Bad governor handle. • Bad electric door lock and contact point. • Bad controller.	• Replace the governor handle or controller. • Re-weld the contact part.
Inadequate mileage from charge.	• Tires have low air pressure. • Inadequate charging or charger failing. • Damaged or expired battery. • Frequent breaking and restarting.	• Pump the tires to proper pressure. • Recharge the battery. • Replace the battery or charger.
The charger no longer works with the battery.	• Charger wiring is loose or damaged. • The battery weld line is damaged or fell off.	• Weld the connecting line, or replace it.
The booster has no power assist.	• The induced cartridge has poor contact or is damaged. • The booster wiring is bad or damaged.	• Adjust the induced cartridge or replace it. • Reconnect the booster or replace it.

LIMITED 1 YEAR WARRANTY

TO QUALIFY FOR WARRANTY SERVICE:

1. You must present a copy of the sales receipt from an approved retail partner within 90 days of purchase.

2. This product can not be used for rental or commercial use.

3. This product can not be used for competition.

LIMITATIONS OF LIABILITY

- **This Limited 1 Year Warranty is non-transferable after the Product's initial sale.**
- **No unapproved modifications can be made to the Product, its performance or otherwise, in order for this Limited 1 Year Warranty to remain in effect.**
- **No reimbursement is provided for towing, loss of time, loss of use, inconvenience, incidental or consequential damages.**
- **Warranty is void if weather related water damage is determined. Owner is responsible for storage and protection from weather.**
- **Jetson® makes no warranty with respect to products or trade accessories not made by Jetson®, including, but not limited to, motors, tires, wheels and batteries, such products or trade accessories, such items being subject to the original manufacturer's warranty, if any.**
- **This Limited 1 Year Warranty does not cover minor surface blemishes, rips, tears, or other cosmetic damages due to normal use, or other intentional or unintentional damage to the Product.**
- **This Limited 1 Year Warranty will not cover any damage which results from the application of improper cleaners, solvents or chemicals to the Product, water damage, smoke or soot, or from exposure to salt-water, sea breeze or salt.**
- **This Limited 1 Year Warranty will not cover any damage which results from aging, such as fading of paint, deterioration of plated surfaces, deterioration of rubber or plastics, or rusting.**
- **This Limited 1 Year Warranty does not cover improper repair or misdiagnosis of problem.**
- **This Limited 1 Year Warranty covers only parts and labor due to manufacturer defect.**
- **Damage due to misuse or neglect, use other than as specified in the Owner's Manual, or use under abnormal conditions are not covered by this Limited 1 Year Warranty.**

OWNER'S WARRANTY RESPONSIBILITIES

As the vehicle owner, you are responsible for the performance of the required maintenance. You should maintain a record of all maintenance performed your vehicle and retain all receipts covering maintenance on your vehicle. You may be denied a warranty claim solely because of your failure to ensure the performance of all scheduled maintenance or lack of maintenance records or receipts. As the vehicle owner, you should be aware that you may be denied your warranty coverage if your vehicle or a part has failed due to abuse, neglect, improper maintenance, or unapproved modifications. For any issue regarding your Jetson® product, call toll free 1-(888) 976-9904.

PRODUCT REGISTRATION

Please complete and mail this card within 10 days of purchase.

Name: _____

Age: _____

Address: _____

City, State, Zip: _____

Email: _____

Home Phone: _____ **Work Phone:** _____

Purchase Date: _____ **Purchased from:** _____

Serial Number: _____

Product: _____

Gender: _____ **Occupation:** _____

Is this your first Jetson product? _____

Other similar product owned before: _____

How did you hear about the Jetson® Electric Mountain Bike?

_____

_____

Complete this form and mail it to:

Attention: Product Registration

Jetson Electric Bikes

1 Rewe Street

Brooklyn, NY 11211

Jetson

A LEADER
IN ELECTRIC MOBILITY
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WWW.JETSONBIKE.COM