Jones Ebike Supplemental Manual

Version 1.0 – Plus LWB HD/e Electric Bicycles, Class 1 & 2

Thank you for your purchase of a Jones electric bicycle. You now own one of the most versatile bicycles ever made! This supplement to the Bicycle Owner's Manual contains information specific to your ebike that will help you get the most out of every ride. Both manuals contain essential information about your new Jones electric bicycle. We understand that manuals aren't usually exciting, but this one has some really useful information in it, so please take the time to read it in its entirety. Refer to the Bicycle Owner's Manual for warnings, cautions, and general bicycle information not included here.

We recommend that only an experienced bicycle mechanic build, tune and maintain the bike. If you feel that you are capable of assembling and maintaining this bicycle yourself, you accept responsibility for anything that may happen as a result of improper assembly, maintenance, or any other oversight. We do not provide full instructions or information for you to assemble, tune, or maintain the bike. It is important to do this work correctly to have a safe, reliable, and fun bicycle. When in doubt, take the bike to your Jones dealer and have them check it out!

Obey all local rules and regulations. In most places, the rules for using an electric bicycle are the same as those for a standard bicycle. However, there may be local differences such as where you can ride, minimum rider age, or required equipment and registration. It is the rider's responsibility to know the local regulations that apply to an electric bicycle and obey them.

⚠WARNING

Bicycle riding always involves risks and dangers, including but not limited to death and severe neck or spinal injuries. Wearing a helmet and riding within your limits can reduce your risk of harm, but it can never eliminate the risk. By riding this bicycle, you assume all the risks and hazards incidental to bicycling. You also release and hold harmless Jeff Jones, Jeff Jones Bicycles, and Mud Springs LLC with respect to injury, disability, or death. Do not ride at night without lights and reflectors. Please refer to the Bicycle Owner's Manual for more information.

GENERAL INFORMATION AND NOTES FOR USING YOUR JONES ELECTRIC BICYCLE

MOUNTING AND REMOVING THE BATTERY

The battery is attached to the frame using a mounting bracket. To remove the battery, use the key to unlock it from the mount. Then, slide the battery up and forward off the mounting bracket. To reinstall the battery, start by making sure the key is in the unlocked position. Place the battery on the mounting bracket and slide it down into position until firmly seated. Lock the battery in place and remove the key. Verify that the battery is locked in position by trying to slide it up the rail.

The lock on the battery serves two very important purposes:

1. Protecting against theft.
2. Preventing the battery from becoming dislodged and falling off while riding.

Always lock the battery in place and remove the key when riding.

Jones Electric Bicycle Components

Figure 1

A.	HMI (Human Machine Interface)	**E.**	Motor
B.	Wiring Harness	**F.**	Shift Sensor
C.	Battery On/Off Switch	**G.**	Speed Sensor
D.	Battery Charging Port	**H.**	Battery/Motor Disconnect & Auxiliary Cable

CHARGING

Fully charge the battery before your first ride. Check the charge level indicator light on the side of the battery by holding the button ***(Figure 3, M)***. Only use the specified charger (provided) to avoid overcharging of the battery. Store and charge the battery at room temperature. Charging the battery at low or high temperatures (below 32° F/0° C or above 100° F/37° C) can have a negative impact on its performance and capacity. We recommend charging the battery when it is at 50% or less capacity. Avoid storing the battery when it is fully depleted.

To charge the battery:

- Turn on the battery ***(Figure 1, C)***. "O" is off, "I" is on.
- Plug the charger into an electrical outlet. The charger light should turn green.
- Plug the charger into the battery charging port ***(Figure 1, D)***. The charger light will turn red while charging.
- The charger light will turn green when the battery is charged. When charging is complete, disconnect the charger from the battery and outlet.
- If at any time the battery or charger becomes hot, emits a strong odor, changes color, deforms, or shows any other abnormality, stop use immediately. Remove the battery to a safe location (outside) only if it is safe to do so.
- Do not use a battery that shows signs of damage or is not working properly.
- Please see the included Li-ion Battery Operating Manual for more information.

⚠WARNING

Although rare, lithium batteries are capable of failure if used improperly or mishandled. In case of fire, use an ABC fire extinguisher if it is safe to do so. Please see the Li-ion Battery Operating Manual for additional information.

POWERING ON AND USE OF YOUR JONES ELECTRIC BICYCLE

The HMI (Human Machine Interface) displays the following:

- Battery Level
- Power-Assistance Level*
- Speed
- Distance
- Headlight/Taillight indication
- Walk Assist

*Depending on HMI model, power-assistance is not active if a zero is displayed or no number is illuminated.

You can ride a Jones electric bike just like a regular pedal bike if you don't turn it on. It's a bit heavier, but it still pedals very easily and efficiently. To turn the bike on, first make sure the switch on the battery is in the on position ***(Figure 1, C)***, then press and hold the power button on the HMI until the display illuminates ***(Figure 2, K)***. Power levels are displayed on the HMI as 1-5, with 1 being the least amount of power and speed and 5 being the most. Change between levels by pressing the "+" or "-" buttons. We recommend starting on 1 to get a feel for how it works.

When you begin pedaling, the motor assist will automatically start. Increasing the power levels will increase the amount of assistance the motor puts out. We like to think of it in this way: pedal the bike like you would pedal a regular bicycle, choosing an easy gear when going uphill or a hard gear when going fast. Then, select a power level for how much power and speed you desire. The pedal assist only turns on when you are pedaling. When you start pedaling, there will be a slight delay before the motor turns on. When you stop pedaling, there will be a slight delay before the motor turns off.

THROTTLE

If your Jones electric bicycle is equipped with a throttle ***(Figure 2, I)***, it can be used for a boost of power while pedaling or for power while not pedaling. The throttle is also helpful when starting from a stop. We recommend always shifting into a lower gear when coming to a stop, so you are in an easier gear when you start pedaling again. Never start on a hill in a high gear, as this adds undue stress to the motor. Ride it like a normal bike and think of the motor as an additional help. Light pressure on the throttle will gradually get you up to a comfortable pedaling speed, where you can then use the pedal assist by itself. Electric motors run at higher rpm, so we always recommend pedaling at a normal cadence or slightly faster. When done riding, press and hold the power button to turn off the HMI and then turn off the battery. The HMI is also equipped with an auto-off feature and will shut off after 5 minutes of inactivity.

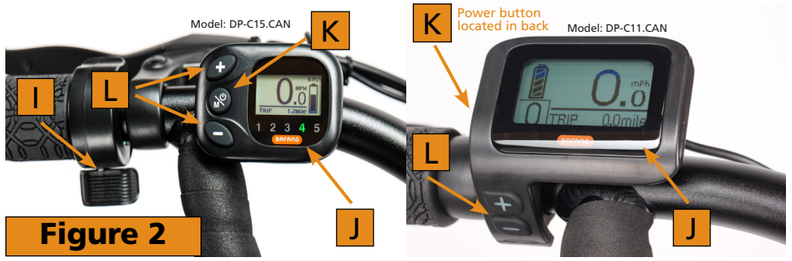

Figure 2

I.	Throttle (if equipped)
J.	Human Machine Interface (HMI) - Style may vary based on bike model
K.	HMI Power Button
L.	Power / Speed Buttons

Figure 3

M.	Battery Charge Level Indicator Light/Button
N.	Auxiliary Headlight/Taillight Cable
O.	Anderson Connector/Main Disconnect

If your Jones electric bike is not equipped with a throttle, not to worry, it can be! The wiring harness ***(Figure 1, B)*** has a connector for this purpose should you decide to add one in the future. Check your local laws for the use of a throttle on an ebike.

BRAKE LEVER CUT-OUT SWITCH AND BRAKING
Each brake lever has an internal switch. When one or both of the brake levers are pulled during braking, the switch sends a signal that cuts power to the motor. This will help you stop sooner or can be used if you want to pedal without the motor turning on.

⚠CAUTION

Jones Motorbikes electric bicycles, and ebikes in general, are oftentimes heavier and faster than normal pedal bikes. Be aware that other road users (vehicles and pedestrians) may not be expecting ebikes to move so quickly. Braking distances are longer with increased speed and weight, and the distance to objects will close much faster. Riding faster may increase the risk and severity of accidents and injury.

SPEED SENSOR
The speed sensor ***(Figure 4, P)*** can be found on the left side chainstay and the magnet is attached to a spoke in the rear wheel. Please make sure the gap between the speed sensor and the magnet is between 3-5 mm ***(Figure 4, Q)***. Also, make sure the magnet is aligned with the center of the speed sensor's induction zone. If this adjustment is not correct, the motor will turn on momentarily and then turn off. Take care when removing or installing the rear wheel as the sensor can be knocked out of place or even damaged if it is hit by the tire. Letting some air out of the tire makes removing the wheel without hitting the sensor easier.

SHIFT SENSOR
The shift sensor ***(Figure 1, F)*** is in line with the rear derailleur cable. When shifting a gear, the derailleur cable moves a short distance. The shift sensor monitors this movement and will greatly reduce the power and speed of the motor long enough for a single shift to be made. This prevents the drivetrain from being shifted under full torque from the motor, much like a rider will pedal a bit softer when shifting a regular pedal bike. Shifting gears will be

quieter, and the lifespan of your drivetrain parts will be extended. We recommend shifting only one gear at a time and not shifting through multiple gears rapidly. The shifter on your Jones electric bike is a single click shifter. It will only perform one gear change at a time and was selected for this reason. The best method is to anticipate what gear you will need ahead of time and move through the gears one at a time.

WALK ASSIST AND AUXILIARY POWER CABLE FOR HEADLIGHT
Walk assist can be a helpful feature if you need to walk your Jones ebike up a hill or a driveway. The bike will slowly motor itself along while you walk beside it. Very handy! Walk assistance can be turned on by holding down the "-" key on the HMI ***(Figure 2, L)***. Release the "-" key to exit out of the walk assist mode (you must hold the "-" button the entire time you want the walk assist to work). How fast the bike goes depends on what gear it is in.
Pressing and holding the "+" key will turn on the headlight/taillight icon on the HMI display. The motor has a short auxiliary cable ***(Figure 3, N)*** that can be used to power devices such as lights, if desired. This auxiliary is 6VDC/3W supply. Please match your light accordingly to prevent overheating or other electrical issues.

⚠WARNING

To REDUCE the risk of serious or fatal injury ALWAYS DISCONNECT the battery when performing ANY MAINTENANCE as the motor may turn on when the cranks are turned or the throttle is pressed.

MAINTENANCE
Whether the bike is in a work stand or you are out on the trail, never work on the chain or wheel area without first disconnecting the battery by removing it from the bicycle or unplugging the red and black Anderson connector ***(Figure 3, O)***. Simply turning the battery switch off ***(Figure 1, C)*** is not the same as disconnecting it. Always be safe and disconnect the battery to avoid potential injury or bicycle damage.

While it's beyond the scope of this supplement to tell you everything you need to know about maintaining your ebike, we'd like to offer a few additional tips that will help it to work better and last longer:

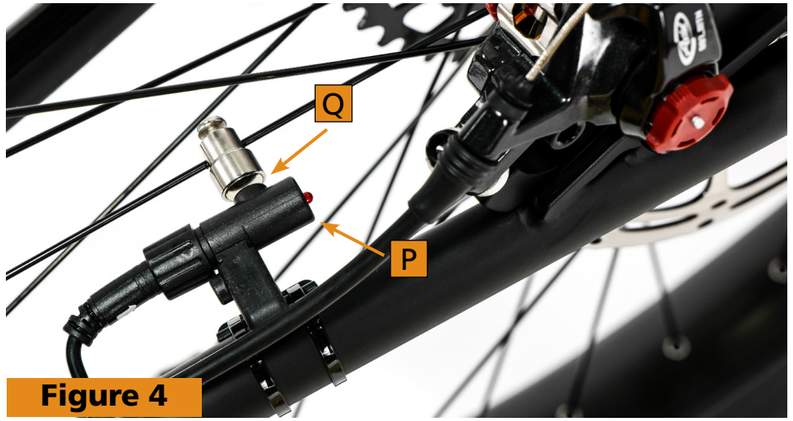

Figure 4

P.	Speed Sensor
Q.	3 mm - 5 mm gap required for sensor accuracy

CLEANING
The bike and electrical components are designed to be water-resistant and can be ridden in the rain but not submerged. Never pressure wash your bike! It can force water into electric components, which may lead to corrosion and other problems. It can also force grease out of bearings and replace it with dirty water, which leaves them improperly lubricated. Instead, if you have to wash your bike, use a low-pressure garden hose and some dish soap. Put some soap in a bucket and use a soft brush to scrub the bike before gently rinsing it. Avoid any electrical components and try to avoid the bearings—especially the bottom bracket and hubs.

Dry the bike off after washing it and re-lube the chain. Lubricating the chain is a basic but crucial and often-overlooked area. Following this technique will give you a well-lubricated chain and won't contaminate any other parts of the bike. Make sure not to use a spray-lube because overspray can get on the brake rotor, which will contaminate your brake pads, making the brake almost useless. Use a drip type lubricant. If the chain is very dirty, use a stiff brush to scrub it off. Once you've got the surface gunk off, shift into a small cog in the rear and, with the rear wheel in the air, rotate the cranks forward slowly while applying lube from a squeeze-bottle just in front of the rear derailleur pulley until you can see that the full length of the chain has been lubricated. Alternatively, you can put a single drop of lube on each roller of the chain. After applying lube, continue pedaling forward for a minute or two to work the lube into the chain. Then, use a rag to wipe the chain off while you rotate the cranks forward. If you want to flush your chain and clean it more, you can simply repeat this process. If you ride in dry, dusty areas, try to wipe off all the excess lube as it will attract dirt. If you ride in very wet areas, you can leave more lube on the chain.

Tips to help increase the range of your ebike:

- Pedal to help the motor as much as you can.
- Pedal at a higher cadence/rpm.
- Use a lower power level when possible, especially at lower speeds.
- Pedal only when starting out, power level 0. Then increase power assist once moving.
- Don't use power on downhills.

If you have any questions, please feel free to call.

Thank you, and enjoy your rides!

Jeff Jones

If you do not understand these instructions, or you have a question that this supplemental manual does not cover, consult your local bike shop. If you have a question or issue that your local bike shop can't handle, contact us at:

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Find the latest instructions at: **www.jonesmotorbikes.com/support** and see the included **Bicycle Owner's Manual** for more information.