

# Jones Frameset Manual

Version 1.0 – Plus LWB HD/e Frameset

Thank you for your purchase of a Jones Plus LWB HD/e frameset. You now own one of the most versatile framesets ever made! This manual contains information specific to your Jones HD/e frameset that will help you get the most out of every ride. We understand that manuals aren't usually very interesting, but this one has some really useful information in it, so please take the time to read it!

We recommend that only an experienced bicycle mechanic build this frameset into a bike and tune and maintain that bike. If you feel competent to assemble and maintain this frame/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 essential to do this work correctly to have a safe, reliable, and fun bicycle. When in doubt, take the bike to your Jones Bikes dealer and have them check it out!

## ⚠ 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 ABOUT YOUR JONES PLUS LWB HD/e FRAMESET

### HANDLEBAR

Your Jones frameset is designed to be used with a Jones H-Bar and the long grips made specifically for the H-Bar. Using an H-Bar with the longer grips completes the Jones system of which the frameset, H-Bars, and longer grips are all components and will ensure that you can get the full control, comfort, and versatility from your Jones frameset.

### FORK

This frame is not compatible with suspension forks or suspension-corrected rigid forks. Installing anything other than a Jones Bikes fork designed for the specific model you are working with can change the bicycle's geometry and ruin the amazing handling that the Jones Geometry is known for, potentially leading to a crash and injury. A Jones LWB Truss Fork can be used with a Jones Plus LWB HD/e frameset.

### SEATPOST AND SEAT TUBE AREA

Your bike uses a 27.2 mm seatpost. The Jones Plus LWB HD/e frame is designed to be used with a straight seatpost. The frames use a 31.8 mm or 32 mm seatpost clamp. Your frame requires 100 mm/4" of seatpost in the frame. Any more than that can be cut off to save weight and make it possible to lower the seat more.

### BOTTOM BRACKET

The Jones Plus LWB HD/e has a 68 mm BSA threaded bottom bracket shell. While designing

## Jones PLUS LWB HD/e Frameset



the frame, it was important to Jeff that he create a frame that could be used as an ebike or as a pedal bike. The 68 mm BSA is the most common bottom bracket shell in use today.

### DRIVE TRAIN

Your Jones Plus LWB HD/e frame is designed around the Boost standard. Boost cranks position the chainrings 3 mm farther outboard than standard cranks and are key to getting proper tire clearance with 29 x 3" tires. In addition to the Boost crankset, you will need a 148 mm x 12 mm (Boost spacing) thru-axle rear hub. This combination allows us to use cranks with a low Q-Factor (also known as tread) while being able to use tires up to 3.25" wide.

### UNICROWN FORK

- Standard 1 1/8" steerer tube
- Uses a standard 1 1/8" headset
- 350 mm steerer tube length
- Fork length: 451 mm
- 3" / 76 mm of offset for the Jones Plus LWB

### WHEEL INFORMATION

The Jones Plus LWB HD/e uses a 150 mm x 15 mm (fatbike standard) thru-axle front hub and a 148 mm x 12 mm (Boost) thru-axle rear hub. Both hubs are secured using Jones TA Bolts. Before installing the bolts, please lubricate the threads lightly with grease or oil. To secure the wheels, slide the TA Bolt through the dropout and hub and thread into the opposite dropout using a 5 mm hex wrench (front inserts from drive-side and rear inserts from disc-side of the bike). Tighten the TA Bolts to 10–12Nm (89–107 in-lbs).

### TIRE PRESSURE AND SIZE

The Jones Plus LWB HD/e is designed to work with 29" x 3" tires.

Tire pressure is often overlooked, but it's an important part of getting your bike to ride optimally. There is a very basic, very common misconception about tire size and tire pressure that we've all heard, and it can be summed up as: "Narrow, high-pressure tires are faster."

While we are used to equating a rough ride with a fast ride, this simply isn't true. If it were, we would still be riding bikes with solid tires! The one place where very narrow, high-pressure tires make real sense is on the track, where the bikes are on a glass-smooth surface, and aerodynamics is the main limiting factor. Likewise, in road racing, where making it into a breakaway is often helped by the ability to stage very rapid accelerations, small, high-pressure tires are good because they are so lightweight. However, outside, in the world where most of us ride, there are bumps everywhere, and we aren't trying to get into the breakaway. With high pressures, every small imperfection in the road and trail gets transmitted to your body, which slows you down because there's nothing to absorb those bumps. Not only that, if you're getting beaten-up as you ride, you will get tired more quickly. Whereas, if you're comfortable and don't feel every little pebble and rut, you'll feel stronger for longer and be able to focus more on putting energy into forward motion. Wider tires give you the extra air volume to absorb bumps while allowing you to benefit from the efficiency and handling that come with a rigid bicycle. That is why we recommend using wider tires on our bikes!

Rim width is another factor in how a tire behaves, and we recommend using rims that are 50–56 mm wide (wider is better) on all Jones Plus LWB HD/e bicycles and ebikes. This makes the sidewalls more vertical, giving the tire better support. What this means when you're riding your bike is that the tire won't have as much of a tendency to fold over under hard cornering as it would if with a narrower rim. It will also help the tire resist pinch-flats because the wide rim has to displace a larger volume of air as it travels into the air chamber created by the tire.

The ideal tire pressure will steer precisely without having the harsh, rough, slow ride that comes with high-pressure tires; it will soak up the small bumps and irregularities in the road, lowering the tire's rolling resistance and increasing your comfort; it will provide cushion for your body during hard impacts without bottoming out and pinching; finally, it will allow the tires to conform to the ground in order to give the most traction without causing the bike to "self-steer." Finding the correct tire pressure will be a matter of trial and error, but we encourage you to take the time to figure it out because it will make your riding experience great!

As a starting place, we suggest these pressure ranges:

- 29" x 2.5" on 50 mm rim: 14–20 psi
- 29" x 3" on 50 mm rim: 10–15 psi

Heavier riders—especially those in rocky areas—will want to start on the high end of this range and lighter riders on the low end, but you'll need to experiment. In any case, it's a good idea to check your tire pressure before each ride, and be sure to use an accurate gauge because few floor pumps have the fine measurement and accuracy that you'll need at under 20 psi.

### JONES WARRANTY

Jones Bikes warranties each new frame against defects in workmanship and materials for a period of three years from the date of sale. Additionally, Jones Bikes warranties each new Jones fork against defects in workmanship and materials for a period of one year from the date of purchase. This warranty applies only to the original owner and is not transferable.

Claims under this warranty must be made through an authorized Jones Bikes dealer or directly

1

2

3

with Jones Bikes. To facilitate warranty, please register your frameset by filling out the registration form at [www.jonesbikes.com/support](http://www.jonesbikes.com/support). Proof of purchase is required. The warranty does not cover normal wear and tear, improper assembly or follow-up maintenance, or installation of parts or accessories not originally intended for or compatible with the bicycle frame as sold.

The warranty does not apply to damage or failure due to accident, misuse, abuse, or neglect. Any modification shall void this warranty. Jones Bikes shall not be responsible for incidental or consequential damages. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. Labor charges for parts changeovers are not covered by the warranty. This warranty gives the consumer specific legal rights, and those rights may vary from place to place. This warranty does not affect the statutory rights of the consumer.

**BIKE MAINTENANCE**

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

**CLEANING**

Never pressure wash your bike! Doing so can 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.

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

Thank you, and enjoy your rides!

JEFF JONES



Jeff Jones

**Example Bike Build-outs**

**Jones Complete HD/e Bicycle with Knobby Tires**



**Jones Complete HD/e Electric Bicycle with Smooth Tires**



**Notes:**

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

Jones Bikes, 1010 Benson Way, Ashland, OR 97520  
 Phone: (541) 535-2034 Email: [contact@jonesbikes.com](mailto:contact@jonesbikes.com) Web: [www.jonesbikes.com](http://www.jonesbikes.com)

Find the latest instructions at: [www.jonesbikes.com/support](http://www.jonesbikes.com/support)