

## SHAGAMAW FRAMESHEET

**RETAILER:** This framesheet MUST BE provided to the end user.

Thank you for purchasing a Shagamaw. We want to give you important information about your bike...

**⚠ WARNING:** CYCLING CAN BE DANGEROUS. BICYCLE PRODUCTS SHOULD BE INSTALLED AND SERVICED BY A PROFESSIONAL MECHANIC. NEVER MODIFY YOUR BICYCLE OR ACCESSORIES. READ AND FOLLOW ALL PRODUCT INSTRUCTIONS AND WARNINGS INCLUDING INFORMATION ON THE MANUFACTURER'S WEBSITE. INSPECT YOUR BICYCLE BEFORE EVERY RIDE. ALWAYS WEAR A HELMET.

**⚠ WARNING:** DO NOT USE FORKS EXCEEDING 541MM AXLE-TO-CROWN. DOING SO WILL VOID THE FRAME WARRANTY AND MAY RESULT IN DAMAGE OR FAILURE OF THE FRAME AND POSSIBLE SERIOUS INJURY.

Additional Product and Safety Information can be found at the website: [hellerbikes.com/safety](http://hellerbikes.com/safety)

### Intended Use: Condition 4



This is a set of conditions for operation of a bicycle that includes Conditions 1, 2, and 3, or downhill grades on rough trails at speeds less than 40 km/h (25 mph), or both. Jumps are intended to be less than 122cm (48").

## Frame Compatibility

Design Wheel x Tire Size	27.5 x 3.0"
Alternative Wheel x Tire Size	29 x 2.1-2.5"
Fork - Suspension	Max: 130mm travel, 51mm offset suspension fork, 541mm max axle to crown, 67.6° headtube angle Min: 100mm travel, 51mm offset suspension fork, 511mm axle to crown, 69.3° headtube angle
Fork - Rigid	485mm minimum axle-to-crown: 70.8° headtube angle, 541mm minimum axle-to-crown: 67.6° headtube angle
Fork Offset	51mm only
Headset Upper	IS42
Headset Lower	IS52
Seat Post	Ø31.6mm
Seat Collar	Ø34.9mm
Front Derailleur Type	Shimano Side-Swing only, 2x only
Front Derailleur Mount	High direct mount (Boost/29mm offset) via Ø34.9mm band clamp adapter
Bottom Bracket	73mm English threaded
Chainline	52mm (Boost)
Crankset (Max Ring)	1x: 32t, 2x: outer - 38t, inner - 24t
Rear Brake	74mm post, rotor 160mm min, 180mm max
Rear Hub	148 x 12mm thru-axle
Rear Axle Size	Ø12mm x 174.5mmL, TP = 1.75, TL = 11mm
Rack Mounts	No
Fender Mounts	No
Bottle Mounts	1 per frame
Cable Routing	Internal routing via swappable ports Brake: all internal, hydraulic or mechanical Shift: all internal, full housing only, front derailleur routing for Shimano Side-Swing only Dropper: internal dropper routing

## Care & Use

### BOOST 148

Shagamaw is designed around the Boost 148 standard. What this means is the rear hub spacing is 148mm and the chainline is increased by 3mm to 52mm. Only 148mm Boost-specific hubs and chainrings will fit. When selecting 1x and 2x chainrings and cranks, make sure they are designed for a 52mm chainline. Standard 49mm chainline cranks will not fit.

### FRONT DERAILLEUR COMPATIBILITY + CHAINLINE

Shagamaw only has compatible internal routing for Shimano Side-Swing 2x direct mount front derailleurs. Required for front derailleur use is a high direct mount 29mm offset adapter. Boost 148 chainline spacing moves the chain rings outboard by 3mm.

### CABLE ROUTING

All cables and housing are run internally through the frame. Shagamaw uses swappable screw-in cable ports to route the cables internally giving options for running hydraulic hose, mechanical brake housing, full shift housing in 1x or 2x, internal dropper posts, and electronic drivetrains in any combination you desire. Complete bikes come set up for 1x drivetrains, internal dropper post and hydraulic brake line.

### CABLE INSTALLATION

When building Shagamaw from a bare frame, make sure to run the cables and housing through the frame before installing the bottom bracket and crank to allow access to guide housing around the bottom bracket shell. To replace shift cables and housing, first pull the old shift cables out of the housing leaving the old housing in the frame. Then install a new cable into the old housing fully. Remove old housing from over new shift cable taking care to leave new cable in frame. Then install new housing over the new cable using the new cable as an easy guide for the housing through the frame.

### ELECTRONIC DRIVETRAINS

Shagamaw is compatible with Shimano Di2 electronic mountain drivetrains only in 1x configurations. There is no 29mm offset adapter available for Shimano Di2 front derailleur-specific direct mounting. Battery can be internally seatpost-mounted (excluded the use of dropper post) or externally mounted to bottle cage bolts.

## Inspection

Before every ride carefully inspect your frame for signs of fatigue. If any frame part shows signs of damage or fatigue, consult your dealer or replace the frame before riding the bicycle.

⚠ **WARNING:** An improperly modified frame, fork, or component can cause you to lose control and fall. NEVER MODIFY YOUR FRAMESET.

⚠ **WARNING:** Attaching incompatible clamping devices to a fork can lead to fork breakage, causing a loss of control. If you are not sure if a device is compatible, consult your dealer.

SERIAL NUMBER: \_\_\_\_\_

Get a pen and write down the serial number of your Heller frame immediately. The number is stamped into the bottom of the bottom bracket shell. Having this number is imperative if your bike ever gets stolen or if you ever have questions about your frame...we are constantly improving our products and sometimes the serial number is the only way to tell one generation of product from another.

## Warranty Information

Proof of purchase is required before a warranty claim is processed. Heller Bikes therefore strongly encourages warranty registration at [hellerbikes.com](http://hellerbikes.com). Failure to register will not affect consumer rights under the limited warranty, so long as the consumer can show in a reasonable manner proof of original ownership and the date the Heller Bikes product was purchased.

If you have any questions contact [support@hellerbikes.com](mailto:support@hellerbikes.com)