

## MOONLANDER FRAMESET

Thanks for spending your hard-earned money on a Surly frameset. Seriously, we really appreciate it. You could've picked something else but you didn't, and that means a lot to us. We've put a lot of work into making a great riding bike that you'll enjoy for a long time. Before you read any further take a minute and write down this frame's serial number. If you should ever experience a problem with it, the serial number will help us get things sorted, and if your bike is ever stolen the serial number is undeniable proof that it's yours. So take a minute, flip the bike over, and write it down. Your frame's individual serial number is located on the underside of the bottom bracket (the part of the frame that houses the crank bearings).

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

The 3.8" tires and 65mm rims of the Pugsley made a lot of people scratch their respective heads when they were first released to the masses. These large tires run at low pressures showed people the possibilities of the fat bike platform but their limitations didn't go unnoticed by the Engineers at Surly HQ. This precipitated the design of our 4.7" Big Fat Larry tires mated to 100mm Clown Shoe rims, thus the Moonlander was born.

The Moonlander frame and fork, like all our framesets, is made of Surly 4130 CroMoly steel and features 135mm-spaced, 28mm-offset, rear-loading Surly horizontal dropouts with a derailleur hanger. This means you can set it up as a singlespeed or geared bike, derailleurs or internally geared. The bottom bracket height gives you clearance for bushwhacking and monster-trucking. The dropped and gusseted toptube maximizes standover height. And the tallish headtube allows you to set your rig up with a comfortable position for those long days grinding out miles in the saddle.

The Moonlander fork measures 447mm axle-to-crown. The disc mount allows you to use a front disc brake caliper with a 135mm rear hub or with a 135mm-spaced Surly front hub. Mid-blade thru-eyelets and lower rack barrels are included for installing fenders and racks. To avoid any chain/tire rub we moved the chainline out further than the Pugsley which also requires the use of our Surly O.D. Crank and bottom bracket.

If you are the type of person who cannot be bound by thin lines of trails running through the forest, enjoy gettin' loose in the sloppiest of slop or your online dating profile states that you enjoy taking long bike rides on the beach, consider the Moonlander.

**⚠ 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.**

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

## FRAME COMPATIBILITY

**Tubing:** Surly 4130 CroMoly steel. Main triangle double-buttet. TIG-welded

**Rear dropouts:** Surly horizontal rear load, with derailleur hanger; 135mm O.L.D.; offset 28.0mm

**Brake compatibility:** 51mm IS disc mounts frame and fork. NOTE: Unlike Pugsley, Moonlander uses front caliper adapters for the front brake and rear caliper adapters for the rear brake

**Braze-ons:** Dual water bottle mounts, Surly Trip Guide full line guides for brake and derailleurs, fender and rack eyelets

**Seatpost diameter:** 27.2mm

**Seatpost clamp:** 30.0mm (Surly stainless included)

**Headset/Steertube:** 1-1/8" threadless

**Front derailleur clamp:** Direct mount 28.6mm diameter (adapter included, Moonlander specific)

**Bottom bracket shell:** 100mm wide, standard English threading (1.37" x 24t)

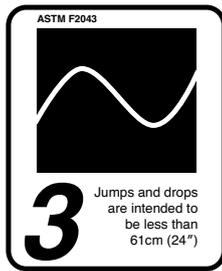
**Chainring clearance:** 22/36t NOTE: This is this specific to using a Surly offset double crank—use of other cranks may limit number and size of rings and may cause tire/chain rub!

**Tire clearance:** 4.8" tires. Hells yes

**Fork:** Tapered straight blade butted 4130 CroMoly. 51mm IS front disc mount. 135mm-spaced dropouts

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

**INTENDED USE: CROSS COUNTRY, MARATHON, HARD TRAILS**



### CONDITION 3

Bikes designed for riding Conditions 1 and 2, plus rough trails, small obstacles, and smooth technical areas, including areas where momentary loss of tire contact with the ground may occur. NOT jumping. All mountain bikes without rear suspension are Condition 3, and so are some lightweight rear suspension models.

**INTENDED** For cross-country riding and racing which ranges from mild to aggressive over intermediate terrain (e.g., hilly with small obstacles like roots, rocks, loose surfaces and hard pack and depressions.) Cross-country and marathon equipment (tires, shocks, frames, drivetrains) are light-weight, favoring nimble speed over brute force. Suspension travel is relatively short since the bike is intended to move quickly on the ground.

**NOT INTENDED** For Hardcore Freeriding, Extreme Downhill, Dirt Jumping, Slopestyle, or very aggressive or extreme riding. No spending time in the air landing hard and hammering through obstacles.

**TRADE OFF** Cross-Country bikes are lighter, faster to ride uphill, and more nimble than All-Mountain bikes. Cross-Country and Marathon bikes trade off some ruggedness for pedaling efficiency and uphill speed.

### MAXIMUM WEIGHT LIMIT

355 lb/161kg ; including rider and all accessories

### CARE AND MAINTENANCE

Keep your frame clean. Dirt and road grime lead to oxidation and fading of the finish, and they make it hard to do a thorough inspection. Dirt will accelerate any abrasion of the paint that comes from rubbing, such as places where the cable housing touches the frame. In extreme cases, this type of abrasion could remove frame material. When your bicycle is not being ridden, store it where it will be protected from rain, snow, sun, etc. Rain or snow may cause the metal on your frame to corrode. We recommend applying J.P. Weigle's Frame Saver to the inside of the tubes before the frame is assembled into a bike. If your bicycle was exposed to moisture during a ride, thoroughly dry the bicycle before storing it. If water got inside the frame, tilt the bicycle to drain the water. If necessary, remove the seatpost and turn the bicycle upside down. This is especially critical if there is a large amount of water inside. If water freezes inside your frame, the expansion of the ice can crack and rupture the structure.

Before storing your bicycle for an extended period of time, clean and lubricate the frame with a frame wax, polish, or protectant. Do not store the bicycle near electric motors, as ozone from motors destroys paint. Before riding the bicycle again, follow the pre-ride checklist to be certain it is in good working order.

### 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

### FRAME SPECIFICATIONS:

For current frame specifications visit [surlybikes.com/bikes/moonlander](http://surlybikes.com/bikes/moonlander)

### LIMITED WARRANTY:

This Surly product is warranted against defects in materials and workmanship for three years from the date of retail purchase of the product, subject to the limitations detailed below. Save your dated receipt for proof of purchase.

This warranty does NOT cover the following:

- Damage due to improper assembly or follow-up maintenance or lack of skill, competence or experience of the user or assembler
- Products that have been modified, neglected, used in competition or for commercial purposes, misused or abused, involved in accidents or anything other than normal use
- Installation of components, parts or accessories not originally intended for or compatible with Surly product as sold
- Damage or deterioration to the paint, surface finish, aesthetics or appearance of the product
- Normal wear and tear
- Labor required to remove and/or refit and re-adjust the product within the bicycle product assembly

This limited warranty is expressly limited to the repair or replacement of a defective product, at the option of Surly, and is the sole remedy of the warranty. This limited warranty applies only to the original purchaser of the Surly product and is not transferable. This warranty applies only to products purchased through an authorized dealer or distributor. In no event shall Surly be liable for any loss, inconvenience or damage, whether direct, incidental, consequential, or otherwise resulting from breach of any express or implied warranty or condition, of merchantability, fitness for a particular purpose, or otherwise with respect to our products except as set forth herein.

This limited warranty gives the consumer specific legal rights, and those rights and other rights may vary from place to place. This limited warranty does not affect your statutory rights.

TO THE EXTENT NOT PROHIBITED BY LAW, THESE WARRANTIES ARE EXCLUSIVE AND THERE ARE NO OTHER EXPRESS OR IMPLIED WARRANTIES OR CONDITIONS INCLUDING WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.