



**RETAILER:** These fork instructions sheet MUST BE provided to the end user.

## Pack Rat Fork Instructions

Hi there. Thanks for spending your hard-earned cash on this Surly fork. Surly stuff is designed to be useful and durable. We're confident it will serve you well for years to come.

**⚠ 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)

## Compatibility

VERSION	650b (52–56cm Frames)	26" (38–50cm frames)	700c (58–64cm frames)
<b>Steerer:</b>	1-1/8", threadless	1-1/8", threadless	1-1/8", threadless
<b>Steerer length:</b>	350mm	350mm	350mm
<b>Axle-to-crown:</b>	390mm	370mm	410mm
<b>Offset:</b>	44mm	44mm	44mm
<b>Tire clearance:</b>	650b x 48mm, individual tire & rim combos affect tire clearance	26 x 2.0", individual tire & rim combos affect tire clearance	700c x 48mm, individual tire & rim combos affect tire clearance
<b>Brakes:</b>	Cantilever/Linear Pull	Cantilever/Linear Pull	Cantilever/Linear Pull

## Intended Use



### INTENDED USE: CONDITION 2

This is a set of conditions for the operation of a bicycle that includes Condition 1 as well as unpaved and gravel roads and trails with moderate grades. In this set of conditions, contact with irregular terrain and loss of tire contact with the ground may occur. Drops are intended to be limited to 15cm (6") or less. Please see link to Bike Owner's Manual on [surlybikes.com/safety](http://surlybikes.com/safety) for complete list of riding condition descriptions.

## Tools Required

- Crown race setting tool
- Star nut setter
- Hammer/mallet
- Steerer tube cutting guide (recommended)
- Hacksaw and permanent marker or tape
- Cutting fluid (recommended)
- Hex wrenches: 4, 5, 6mm
- Torque wrench
- Verify that the fork, headset and all required parts for proper assembly have compatible dimensions. The fork, headset, headset spacers and stem steerer clamp must have compatible diameters. Use of incompatible components can cause component failure.
- Make sure headset and stem parts that come into contact with the steerer tube are free of burrs or sharp edges. Remove burrs or sharp edges by using very fine grit sandpaper.

## Installation

1. Once the headset cups have been installed into the frame according to the headset manufacturer's instructions, install the crown race. Holding the fork in one hand, install the headset's fork crown race onto the fork race seat with a headset crown race setting tool and hammer.
 

**⚠ WARNING: Do not rest the fork dropouts on the floor or other hard surface; doing so can damage the fork, making it unsafe to ride.**
2. Install the bottom assembly of the headset according to the manufacturer's instructions and insert the fork into the headtube. Install the top assembly of the headset according to the manufacturer's instructions.
3. Install the stem on the steerer and slide it down to seat it firmly against the spacers on the top of the headset. Gently tighten the stem's steerer clamp bolt(s) just enough to hold the assembly in place.



4. Mark the steerer tube at the top edge of the stem. Remove the stem and spacers from the steerer and the fork from the bike. Mark the steerer again, this time 3mm below the first mark. This will be your cutting mark.  
**⚠ WARNING: Do not modify the fork, other than cutting the steerer tube to the correct length for your bicycle. Modifying the fork could cause fork or other component failure resulting in serious injury.**
5. To ensure a square cut, the use of a steerer tube cutting guide is strongly recommended. Using a hacksaw with a fine-toothed metal cutting blade, begin cutting the steerer at the cutting mark—the use of cutting fluid is recommended. Once cut, use a file to remove any burrs on the inside and outside edges of the steerer tube.
6. Install the star nut supplied with the headset into the steerer tube per the manufacturer's instructions.
7. Reinstall the fork, headset assemblies, spacers, and stem, and pre-load the top cap to attain the proper headset adjustment in accordance with the headset manufacturer's instructions. Tighten the stem's steerer clamp bolt(s) to the stem manufacturer's specifications.
8. Attach the front wheel to the fork, and align the stem with the front wheel. Tighten the stem's steerer clamp bolts to the stem manufacturer's specifications. While straddling the toptube and holding the front wheel between your legs, make a strong attempt to rotate the stem around the steerer. If the stem rotates, increase the torque on the steerer clamp bolts; do not exceed 7Nm.  
**⚠ WARNING: Alignment of the front wheel assembly should not be less than 6mm clearance between the tire, frame, fork, or fender and its attachment bolts. Inadequate tire clearance can result in serious injury.**
9. Follow the wheel manufacturer's instructions for correct clamping of the wheel quick release and install the front wheel.  
**⚠ WARNING: Failure to properly adjust the quick release and secure the wheel can result in serious injury.**
10. Install and adjust handlebar to stem following stem and handlebar manufacturer's instructions.  
**⚠ WARNING: Failure to properly install and adjust handlebar and stem can result in serious injury.**
11. Install and adjust the front brake following the brake manufacturer's instructions.  
**⚠ WARNING: Failure to properly install and adjust brakes can result in serious injury.**
12. Check the tightness of the stem bolts before each ride, and inspect the fork for damage before every ride.  
**⚠ WARNING: Attaching incompatible clamping devices to a fork can lead to breakage, causing a loss of control. If you are not sure if a device is compatible, consult your dealer.**

**WARNING: Do not modify the fork, other than cutting the steerer tube to the correct length for your bicycle. Modifying the fork could cause fork or other component failure resulting in serious injury.**

- **Attaching incompatible clamping devices to a fork can lead to breakage, causing a loss of control. If you are not sure if a device is compatible, consult your dealer**
- **This fork is only compatible with quick release fenders. Consult fender manufacturer for specific compatibility**
- **Do not mount racks or any other load bearing accessory to the fender mounts. Doing so could result in fork breakage, causing a loss of control**
- **Entanglement of an object in your wheel could stop the rotation of the wheel causing a loss of control or crash that could lead to serious injury. Always secure all cargo, luggage, and any mounting straps. Avoid running over objects in the road or trail including sticks or debris**
- **Always check for adequate clearance between the front wheel and any accessory mounted to the fork**
- **Every bicycle product has a finite useful life. A bicycle and its components such as forks are subject to wear and stress. Different materials and mechanisms wear or fatigue from stress at different rates and have different life cycles. If a component's life cycle is exceeded, the component can suddenly and catastrophically fail, causing serious injury to the rider. This is why you need to frequently inspect your bicycle and its components for any signs of wear or fatigue. Scratches, cracks, bending, fraying or discoloration are all signs of stress-caused fatigue and may indicate that a part is at the end of its useful life and needs to be replaced. When you see any signs of fatigue or damage, do not ride the bicycle. Take it to a dealer for inspection, repair or replacement as necessary**
- **While the materials and workmanship of your bicycle, bicycle fork or of individual components may be covered by a warranty for a specified period of time, this is no guarantee that the product will last the term of the warranty. Product life is often related to the kind of riding you do and to the treatment to which you submit the bicycle. The warranty is not meant to suggest that the bicycle or component cannot be broken or will last forever. It only means that the product is covered subject to the terms of the warranty**

## Ongoing Maintenance

Loosen the stem's steerer clamp bolts before making any stem-to-fork alignment adjustments.

Periodically remove, clean and inspect your fork for damage, cracks or any other damage. Any questions about marks or cracks on the fork should be directed to your Surly dealer immediately.

Regularly inspect all components for any damage (cracks, chips, etc.) and replace components upon detection.

In the event of a crash or impact, carefully inspect handlebars, fork, stem, seatpost, wheels and the frame for any visible damage. As with any component under varying degrees of stress there is a fatigue life that is proportional to the type of use and abuse applied to the part. Always inspect your components before a ride. If you have doubts about the integrity and condition of any part, replace it. Consult your dealer if you are unsure about the condition of your Surly fork or any part of your bicycle.



## Limited Warranty

This Surly product is warranted against defects in materials and workmanship for one year 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 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.

### **OTHER PRODUCTS:**

Give us a call for a free catalog or visit our website to check out all our stuff—you won't be disappointed.

### **Surly**

6400 West 105th Street  
Bloomington, MN 55438

**The Watts Line:** 877.743.3191

**The Email:** derby@surlybikes.com

**The Web Address:** surlybikes.com