

## Steel 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 use. Always wear a helmet.

### Compatibility & Intended Use

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



#### ASTM Condition 2

This is a set of conditions for the operation of a bicycle on a regular paved surface 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.

### Tools & Materials Required

- Crown race setting tool
- Ball peen hammer
- Protective gloves
- Hacksaw with a fine 32 tpi tungsten carbide steel blade
- Steerer tube cutting guide
- 4, 5, 6mm hex-bit sockets
- Torque wrench with Newton meter (Nm) scale
- Metal file
- Cutting fluid
- Grease
- Fine-tip felt marker
- Rubbing alcohol
- Protective eyewear
- Star-nut setting tool

### Fork Installation Overview

Installing a new fork is a three-step process:

STEP 1) Check headset components for compatibility and assemble the fork into the headset so you can measure and mark the steerer tube cutting length.

STEP 2) Remove the fork from the headset and cut the steerer tube to length.

STEP 3) Reassemble the headset and fork, add handlebars, align and tighten.

**▲ WARNING:** Failure to follow these instructions may result in premature failure leading to a crash resulting in serious injury.

#### STEP 1 Check, Assemble and Mark

1. **Double Check Component Compatibility:** Check the fork, headset, headset spacers, stem steerer clamp and all other parts required for proper assembly to ensure they all have compatible dimensions. Incompatible dimensions can cause component failure.
2. **Remove Burrs and Sharp Edges:** Wearing protective gloves, examine the stem and headset parts for burrs and sharp edges that may contact the steerer tube. Remove burrs and sharp edges using a metal file.

3. **Install the Crown Race:** Hold the fork with one hand and use a crown race setting tool and hammer/mallet to install the crown race onto the steerer tube, following the manufacturer's instructions.

**▲ WARNING:** Do not place the fork on the dropout tips or support the fork in the crown area while installing the crown race. Doing so can damage the fork (Fig.1).

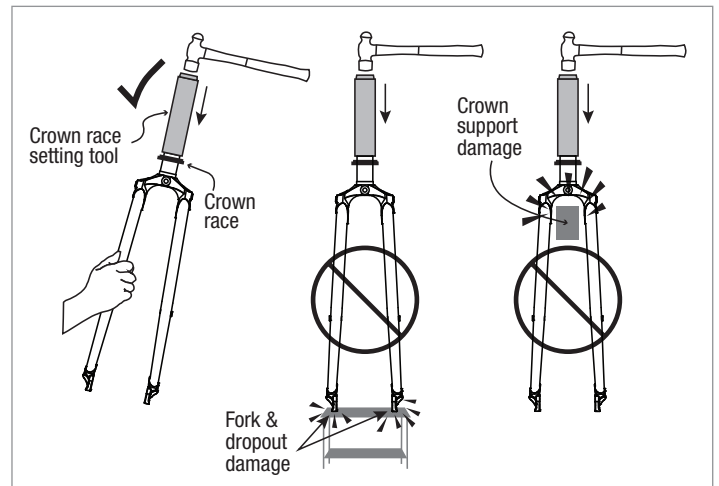


Figure 1

4. Install the headset cups in the headtube following the headset manufacturer's instructions.
5. Install the bottom assembly of the headset per manufacturer's instructions and insert the fork into the headtube. Install the upper headset by following the manufacturer's instructions (Fig. 2).

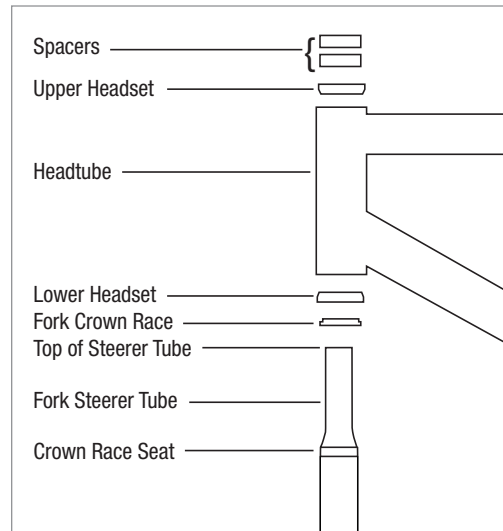


Figure 2

6. Add one or more spacers to steerer tube (Fig. 3).
7. Use a fine tip felt marker to mark the steerer tube along the top edge of the stem (Fig. 4).

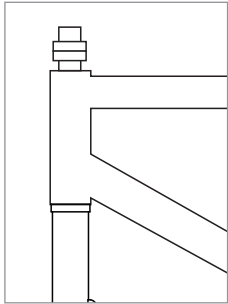


Figure 3

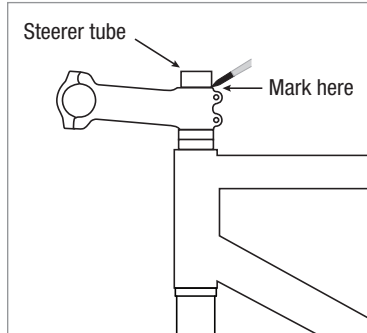


Figure 4

8. Remove the fork from the headtube and set aside the spacer(s) and headset components.
9. Locate the mark made in step 8. Measure down 3mm and make a new mark for cutting (Fig. 5).

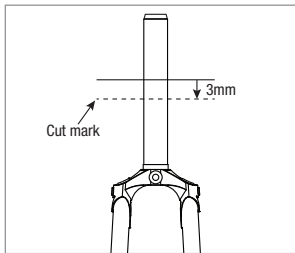


Figure 5

10. Double check measurements to make sure the steerer tube will not be cut too short. It's easier to measure twice than to buy a new fork.

**NOTE:** After cutting, the steerer tube must be 3mm below the top of the stem (Fig. 6).

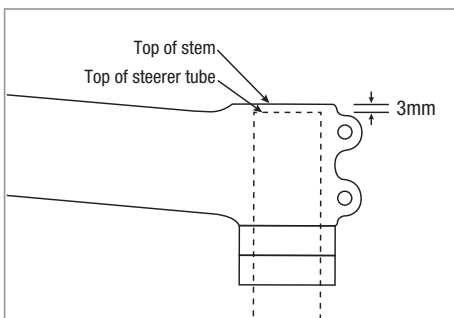


Figure 6

### STEP 2 Cut the Steerer Tube

1. Put on protective gloves and safety glasses.
2. Using a new fine-tooth hacksaw blade, vise, cutting fluid, and proper cutting guide, cut the steerer tube.
3. Remove burrs and sharp edges with a metal file.
4. Clean the steerer tube and inside of the stem clamp with rubbing alcohol to remove grease and dirt.

### STEP 3 Final Assembly

#### 1. Star Nut Installation

- A. Hold the fork with one hand (Fig. 1) and install a new star nut using a star nut setting tool and hammer (Fig. 7).

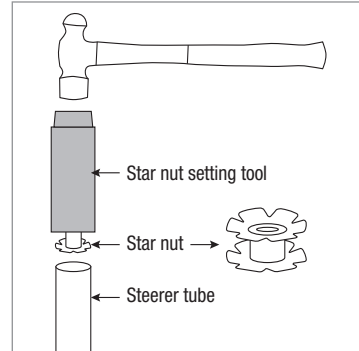


Figure 7

- B. Clean the steerer tube with rubbing alcohol.
2. Re-Install the fork, spacers, stem, and all headset components into the headtube (Fig 8).

**NOTE:** Do not fully tighten the stem clamp bolts or stem cap bolt

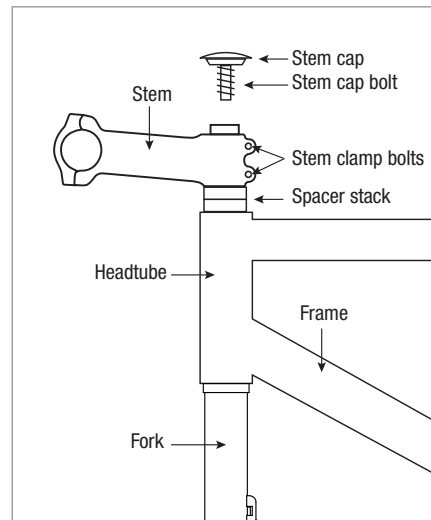


Figure 8

at this point.

3. Install the handlebar, following manufacturer's instructions.
4. Install the wheel onto the fork and align it to obtain proper clearance between the tire, fork, and frame. Tighten the quick-release thru-axle or bolt-on hubs to specifications.
  - ▲ **WARNING:** Maintain at least 6mm clearance between the tire, wheel, and any element of a fork, frame or other component. Improper clearance can allow objects to become entrapped and cause a crash resulting in serious injury.
  - ▲ **WARNING:** Failure to properly adjust the quick release or thru-axle to secure the wheel can result in serious injury.
5. Align the handlebar perpendicular to the front wheel. Tighten the stem cap bolt to manufacturer's specifications using a torque wrench and hex-bit socket. If torque specification are not provided tighten to 1.6Nm (15 in-lb).

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6. Tighten stem clamp bolts to manufacturer's specifications to complete the fork installation.

**▲ WARNING:** Never force a tightened stem to correct stem to fork misalignment. Always loosen the stem-to-steerer tube bolts first. Then make the adjustment and re-tighten the bolts to specifications.

**▲ WARNING:** Failure to properly install handlebar and stem can result in serious injury.

7. 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.

### Routine Fork Inspection & Ongoing Maintenance

**▲ WARNING:** Every bicycle component has a finite life. Normal wear and tear, impact, careless use, and neglect of routine maintenance can cause an unexpected failure resulting in serious injury. Before each ride, examine your bicycle for signs of wear, stress, or impact-related damage. If a component doesn't operate properly or you detect scratches, cracks, bending, fraying, or discoloration, or notice creaking sounds, have your bicycle inspected immediately by your dealer.

**▲ WARNING:** Other than cutting the steerer tube to the proper length, do not modify the fork in any way.

Modifying the fork could cause fork or other component failure resulting in serious injury.

### Additional Inspections

Periodically inspect your bicycle components to make sure all bolts are properly torqued to the manufacturer's specifications.

### Cleaning

Clean with soap and water. Dry with a rag.

### Using Your New Fork with an Automotive Fork-Mount Style Bicycle Rack

1. Ensure the bicycle rack clamp is closed tightly to prevent damage to the dropout or loss of the bike.
2. To remove the bicycle, lift the fork straight up so the dropouts disengage evenly. Tilting the bicycle off the rack can damage the dropouts (Fig. 9).

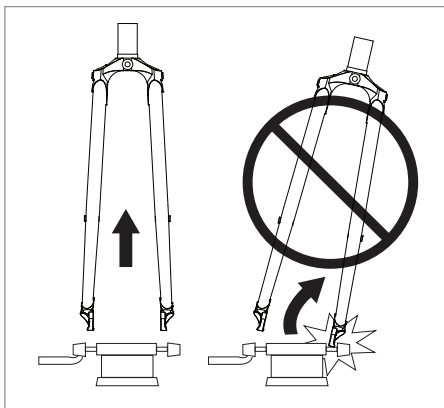


Figure 9

### Fender Installation

**▲ WARNING:** This fork is only compatible with quick release fenders. Consult fender manufacturer for specific compatibility.

### Rack Installation

Ensure your fork is rack-compatible. See Figure 10 or 11 for approved rack mounting locations on the fork. Follow the rack manufacturer's instructions for installation. Be sure to use all hardware that came with the rack for installation.

**▲ WARNING:** Do not mount racks to any other fork mounts than the those pictured in Figures 10 and 11. Failure to properly install a rack can lead to a crash and cause serious injury.

**▲ WARNING:** Do not exceed the load capacity of 30 lb on the mid-blade and lower mounts.

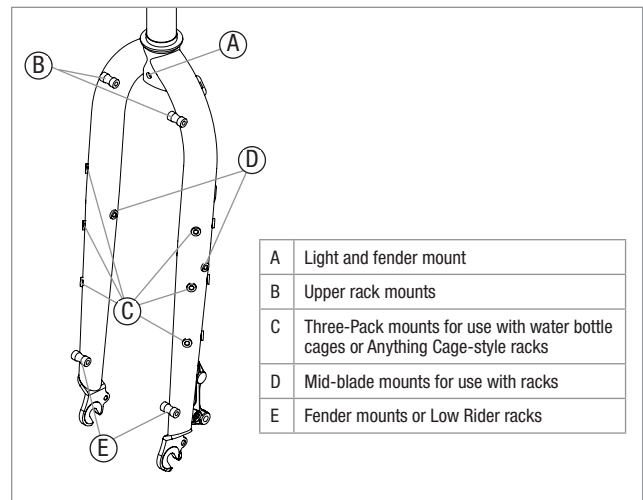


Figure 10 - Unicrown Fork Rack Mounting

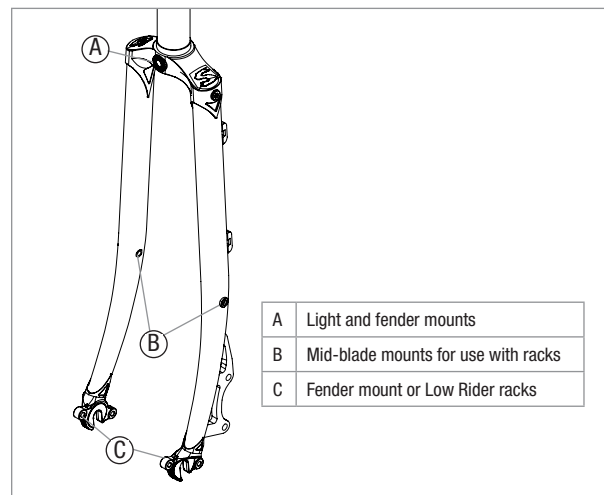


Figure 11 - Lugged Fork Rack Mounting

### Install Accessories with Three-Pack Mounts

Forks equipped with Three-Pack mounts can be used with accessories like the Anything Cage or water bottle cages (Fig. 12). Follow the installation instructions and weight limits provided with any accessories. For accessory instructions go to: [surlybikes.com/safety](http://surlybikes.com/safety).

**▲ WARNING:** Do not exceed the load capacity of 3kg or 6.6 lb for the Three-Pack mounts.

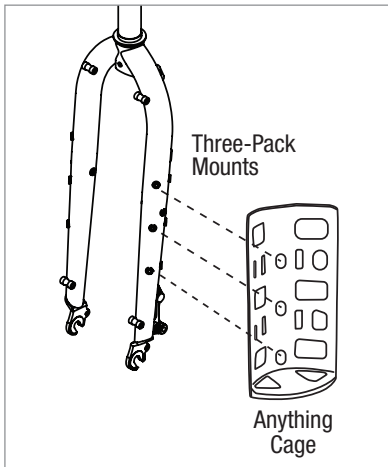


Figure 12

### Light Mounting & Cable Routing

Go to [surlybikes.com](http://surlybikes.com) to verify your fork is light mount and dynamo mount-capable. Then follow the manufacturer's instructions for proper installation.

If possible, route cables through the internal tube to prevent them from contacting the wheel. Use the hardware included with the light to mount the unit to the fork. Tighten to the manufacturer's torque specifications to prevent the light from moving or rotating into the wheel.

**▲ WARNING:** 6mm clearance required between the front wheel and any accessory mounted to the fork.

### Surly Limited Warranty

This product is warranted against defects in materials and workmanship for 3 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 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 the original 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 Surly products except as set forth herein.

This warranty gives the consumer specific legal rights, and those rights and other rights may vary from place to place. This 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.

### Warranty Registration

Proof of purchase is required before a warranty claim is processed. Surly therefore strongly encourages warranty registration at [surlybikes.com](http://surlybikes.com). Failure to register will not affect consumer rights under the limited warranty stated above, so long as the consumer can show in a reasonable manner proof of original ownership and the date the Surly product was purchased. If you have any questions contact [warranty@surlybikes.com](mailto:warranty@surlybikes.com)

Submitting a Claim can be made anywhere Surly products are sold. When in doubt, contact your local shop. Please provide details about what happened including but not limited to other components used in conjunction with the alleged defective Surly part.

**NOTE:** The term of the Warranty is not a guarantee of the product's useful life. Product life is influenced by how the product is used, stored, and maintained over time. The Warranty is not meant to suggest the product cannot be broken or that the product will last forever. The Warranty only means the product is covered subject to the terms of the Warranty.

Produkthinweise finden Sie auf der Website: [surlybikes.com/safety](http://surlybikes.com/safety).

Las instrucciones del producto pueden encontrarse en el sitio web: [surlybikes.com/safety](http://surlybikes.com/safety).

Le mode d'emploi est disponible sur le site Web : [surlybikes.com/safety](http://surlybikes.com/safety).

Le istruzioni sul prodotto si trovano sul sito: [surlybikes.com/safety](http://surlybikes.com/safety).

製品取扱説明書はウェブサイトにあります: [surlybikes.com/safety](http://surlybikes.com/safety).