



## Mr. Whirly Offset Double (MWOD) Chainring/Chainguard Setup

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

MWOD chainrings allow you to run extra wide rear tire & rim combinations on your fatbike without compromising your gear range. Without modifications to the drivetrain, the chain can rub the rear tire when shifted into the lowest gears. On a bike made for crawling through the thick and sloppy, these low gears are essential and cannot afford to be compromised. To solve this problem, the MWOD chainrings convert the Mr. Whirly crankset into an offset mountain double by removing the outer chainring. With the outer chainring removed, the granny and middle chainrings are shifted outboard to the old locations of the middle and outer chainrings. This shift effectively gains you around 7mm of tire clearance at the chain without increasing your Q-factor and without losing your crawling gears.

The following set of instructions should give you all the information to properly set up your MWOD chainrings on your Mr. Whirly crankset. If you do not feel comfortable with the installation, please take your pile of parts to your local bike shop so they can get you set up right.

**⚠ 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: [www.surlybikes.com/safety](http://www.surlybikes.com/safety)

## Compatibility

- 9- or 10-speed compatible
- Designed for Surly Mr. Whirly crank arms
- For optimal shifting performance, chainrings should remain in pairs (20/33t & 22/36t)

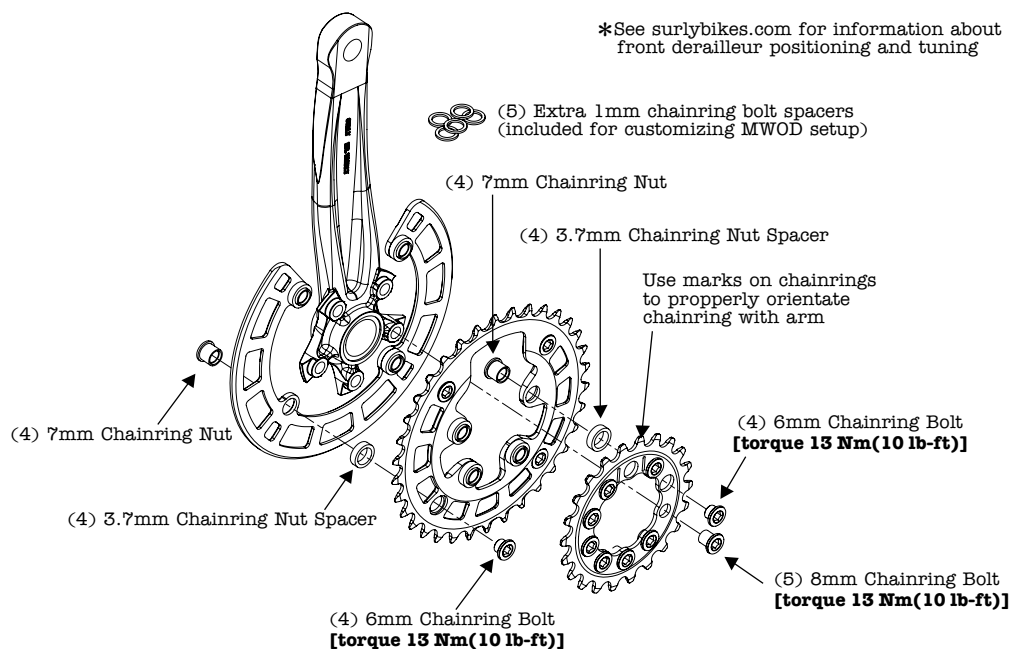
## Tools Required

- 5mm Allen wrench
- 6mm Allen wrench
- Torque wrench (Nm)
- Grease

## Hardware

- (8) 7mm Chainring Nut
- (8) 3.7mm Chainring Nut Spacer
- (8) 6mm Chainring Bolt
- (5) 8mm Chainring Bolt
- (5) 1mm Chainring Bolt Spacers
- (1) Larger Chainring
- (1) Smaller Chainring

**\*NOTE**—Every thread deserves grease when installing the Mr. Whirly Offset Double (MWOD) Chainring/Chainguard Setup. Please, give threads a chance.



## Ongoing Maintenance

Periodically check chainring bolts and crank arm fixing bolts for proper torque.

## 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 bicycle 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.

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