

Modular Dropout System (MDS) Instructions

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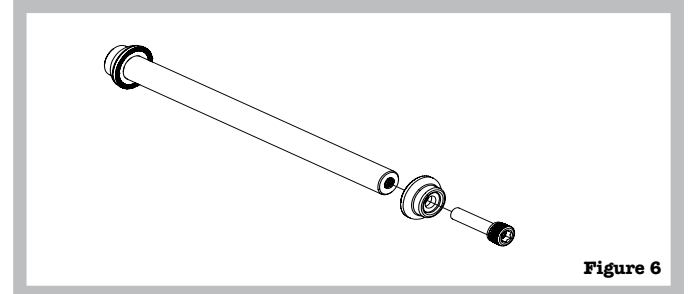
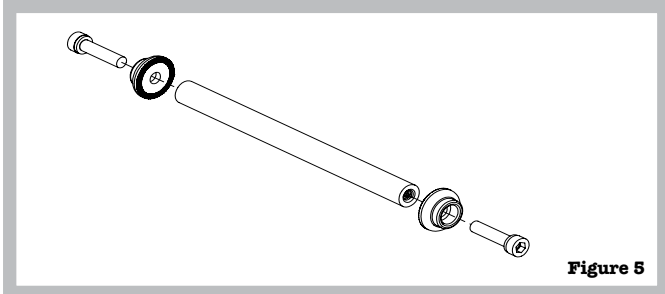
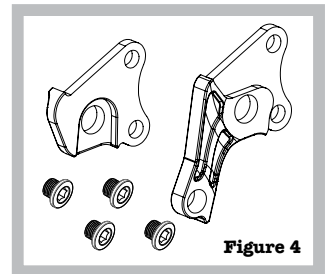
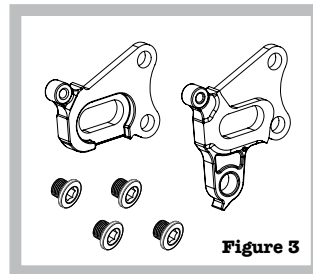
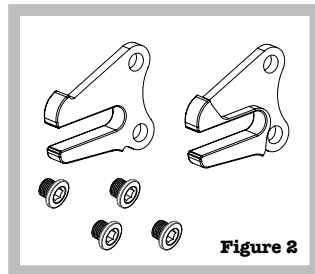
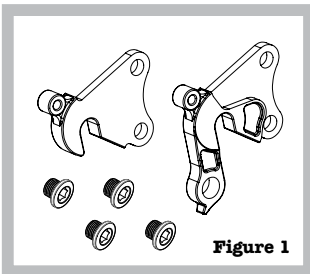
⚠WARNING! Cycling can be dangerous. Bicycle products should be installed and serviced by a professional mechanic. Never modify your bicycle or accessories. Read and follow all product instructions and warnings including information on the manufacturer's website. Inspect your bicycle before every ride. Always wear a helmet.

For additional safety information about all Surly products visit: surlybikes.com/safety

MDS Compatibility and Intended Use

The MDS dropout system is designed to allow for four different rear axle configurations: **NOTE:** Periodically check your dropout system to ensure bolts remain tight and the system is functioning properly.

1. 10mm vertical (standard Shimano and SRAM compatible derailleur hanger) (Figure 1).
2. 10mm track end (singlespeed) (Figure 2). **NOTE:** The 10mm track end dropout chips are made of a hardened steel, which limits the grip of your axle nuts. A chain tensioner may be necessary to ensure your axle position and chain tension stay where you want.
3. 12mm thru-axle slotted (standard Shimano and SRAM compatible derailleur hanger) (Figure 3).
4. 12mm thru-axle (hanger is ONLY for Shimano Direct Mount derailleurs) (Figure 4).
5. 12mm double bolt thru-axle (Figure 5).
6. 12mm single bolt thru-axle (Figure 6).



Each configuration includes a drive and non-drive side dropout chip. All are easily installed or removed via two chainring bolts in the dropout.

Tools Required for Installation

- 5mm Allen wrench
- Grease
- 6mm or 8mm Allen wrench for 12mm thru-axle configuration

Installation of the MDS Dropout

To install the dropout chips that suit your axle configuration, slide the dropout chip in to the frame and secure it with the two chainring bolts (see Figure 7). Make sure to apply grease to the threads and all metal to metal mating surfaces. Torque each chainring bolt to 9 N-m.

NOTE: 10mm track end chip shown in Figure 7 for reference

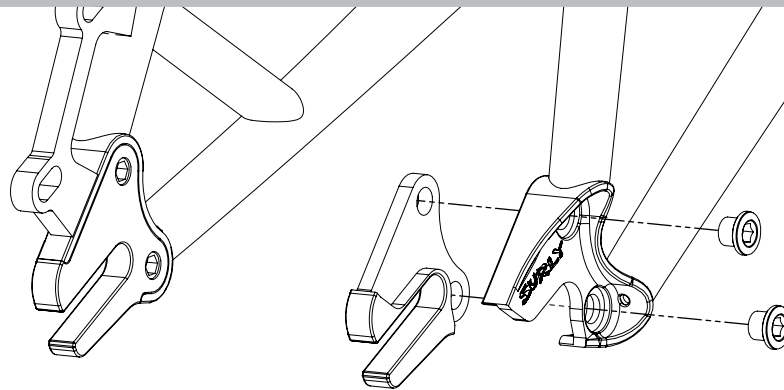
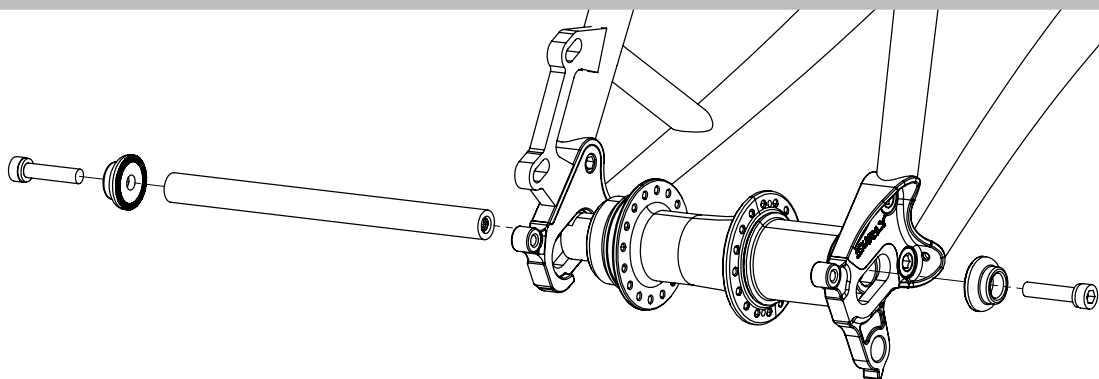


Figure 7

Axle assembly for 12mm double bolt thru-axle

It will take some extra attention while installing your axle to ensure that everything has engaged properly. Follow the instructions below to make sure everything is setup properly:

1. Hold rear wheel in the dropouts and slide the 12mm thru-axle through the assembly (Figure 8).
2. Make sure that axle is engaged in the dropout on both ends of the axle. If your axle bolt and washer are already installed on one end of the axle, make sure to push the axle all the way through the assembly so that it engages with the dropout hole on the opposite side.
3. Apply grease to the threads of your axle bolts and tighten them to 16 N-m.
4. Check and ensure that wheel is fully engaged and sitting straight in the dropouts before getting rad.

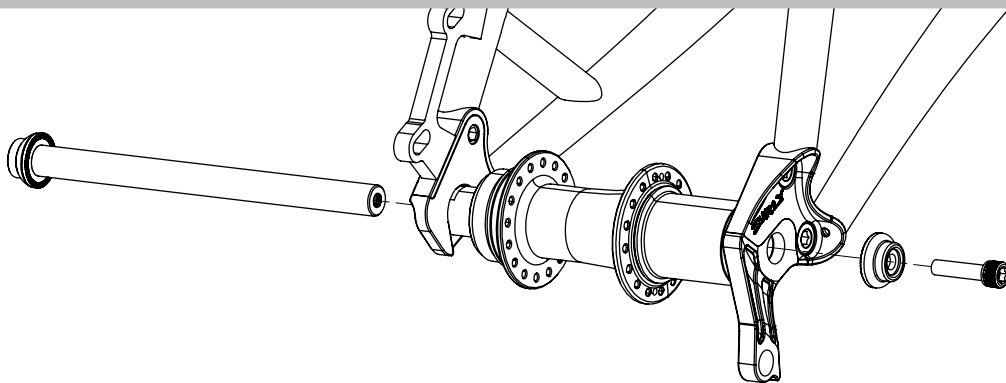


12mm double bolt thru-axle

Figure 8

Axle assembly for 12mm single bolt thru-axle

1. Hold rear wheel in the dropouts and slide the 12mm thru-axle through the assembly (Figure 9).
2. Make sure that axle is engaged in the dropout.
3. Apply grease to the threads of your axle bolt and tighten it to 16 N-m.
4. Check and ensure that wheel is fully engaged and sitting straight in the dropouts before getting rad.



12mm single bolt thru-axle

Figure 9

Ongoing Maintenance

Periodically remove and reinstall the attachment bolts for the MDS dropout chips, apply grease and check the proper torque to prevent any unwanted component fusion from moisture or offensive off season elements.

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

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