

At Salsa, we believe that a sense of adventure makes life better. The bicycle can be so much more than just a bike; it's a path to new places, new people, and amazing experiences.

Thank you for your purchase. We hope it makes a good riding experience even better!

Salsa. Adventure by bike.®

**▲ 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.

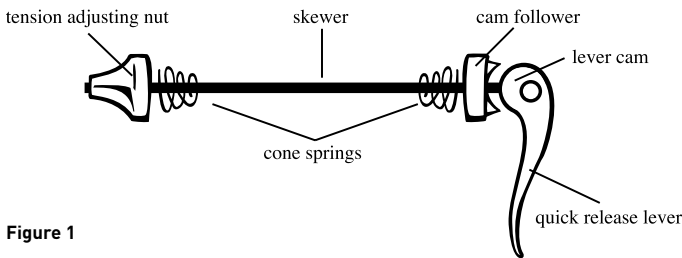


Figure 1

## Compatibility and Intended Use

This quick-release mechanism is designed for use on bicycles with correctly aligned and spaced fork and frame dropouts. If the dropouts are not correctly aligned and spaced for the hubs being used, the cam action of the quick release may not provide sufficient clamping force to retain the wheel in the frame under all conditions. Have your dropout alignment and spacing checked by an experienced bicycle mechanic.

Please read through all instructions before beginning installation.

## Flip-Offs Assembly

1. Lubricate the skewer, its threads, the quick-release lever pivot, and the face of the cam follower with light oil.
2. Remove the tension adjusting nut and left cone spring.
3. Pass the skewer through the hollow axle of the wheel hub so that the quick-release lever will be on the non-driveside of the bike.
4. Slip the cone spring over the threaded end of the shaft, with the narrow end of the spring facing the hub.
5. Thread the adjusting nut on to the skewer a few turns.

## Wheel Installation

**▲ WARNING:** If your bike is equipped with disc brakes, be careful not to damage the disc, caliper, or brake pads when re-inserting the disc into the caliper. Never activate a disc brake's control lever unless the disc is correctly inserted in the caliper.

## Front Wheel

1. Make sure the quick-release lever is in the open position (Figure 2), and place the wheel into the bike fork with the quick-release lever on the non-driveside, seating the wheel axle firmly at the top of the dropouts.

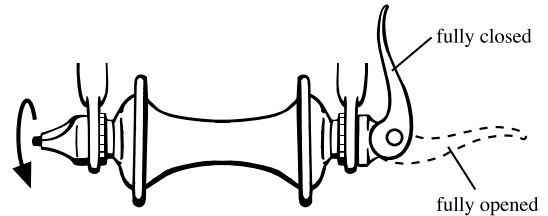


Figure 2

2. Seat the lever's cam in the cam follower and, with the lever in the open position, rotate the lever arm so that it will point to the rear of the bike once closed. Tighten the tension-adjusting nut by turning it clockwise until you feel it touch the frame dropout.
3. Swing the lever into the fully closed position (Figure 2), making sure that it is pointing toward the rear of the bike. The last 30 to 40° of lever movement should require considerable force (between 24–30 lb). If the resistance is less than this, open the quick-release lever and turn the tension-adjusting nut clockwise 1/8 of a turn at a time, until the closing action of the lever requires the recommended amount of force. The wheel is now firmly locked in place.

## Rear Wheel

1. On a multi-speed bike, be sure to shift the derailleur into the outermost gear, pull the derailleur body back, and place the chain on the smallest sprocket.
2. On a singlespeed bike, remove the chain from the front chainring so you have plenty of slack, then place it on the rear cog.

**NOTE:** Salsa does not recommend Flip-Offs for singlespeed use on frames with horizontal rear dropouts.

3. Make sure the quick-release lever is in the open position (Figure 2), and place the wheel into the bike frame with the quick-release lever on the non-driveside, seating the wheel axle firmly at the top of the dropouts.
4. Seat the lever's cam in the cam follower and, with the lever in the open position, rotate the lever arm so that it will point to the rear of the bike once closed. Tighten the tension-adjusting nut by turning it clockwise until you feel it touch the frame dropout.



## FLIP-OFFS QUICK-RELEASE SKEWER INSTRUCTIONS

5. Swing the lever into the fully closed position (Figure 2), making sure that it is pointing towards the rear of the bike. The last 30 to 40° of lever movement should require considerable force (between 24–30 lb). If the resistance is less than this, open the quick-release lever and turn the tension-adjusting nut clockwise 1/8 of a turn at a time, until the closing action of the lever requires the recommended amount of force. The wheel is now firmly locked in place.

### Skewer Trimming

1. Salsa Flip-Off skewers are made in a multiple lengths which accommodate most axle and dropout widths. If, after correctly installing the Flip-Offs, there is more than 2mm of skewer protruding beyond the tension-adjusting nut, the skewer must be trimmed flush with the outside face of the tension-adjusting nut.

**▲ WARNING:** Trimming the skewer requires skill and we suggest using your local bike shop. If the skewer is cut too short, there may not be sufficient thread engagement for safe wheel retention. A skewer cut too short is destroyed and must be replaced.

2. To trim the skewer, first carefully mark the correct length; then remove the wheel from the bike (see below) and the tension-adjusting nut from the skewer.
3. Use a hacksaw or grinding wheel to shorten the skewer to the marked length; then carefully deburr and bevel the end with a file or grinder.
4. Replace the tension-adjusting nut and reinstall the wheel. Double-check that the end of the skewer is flush with the tension-adjusting nut.

### Wheel Removal & Reinstallation

1. To remove the wheel, simply swing the lever into the open position and knock the wheel out of the dropouts.
2. To reinstall, repeat step 2.

### WARNING: Before you ride

- Check your wheel and quick-release before each ride
- If your skewer becomes bent, do not ride it
- Most bikes require partial disassembly of the brakes to remove or install the wheel. Always check for proper brake function before riding
- Always close the skewer lever completely. Do not allow the frame or fork to inhibit full lever travel

### Ongoing Maintenance

Periodically make sure the seat collar is tightened to the proper torque.

### Warranty Registration:

Proof of purchase is required before a warranty claim is processed. Salsa Cycles therefore strongly encourages warranty registration at [salsacycles.com](http://salsacycles.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 Salsa Cycles product was purchased.

If you have any questions contact [warranty@salsacycles.com](mailto:warranty@salsacycles.com)

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