

# **SANTA CRUZ BICYCLES**

Bearing Adjustment



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## SAFETY INSTRUCTIONS

### ⚠ WARNING

Special tools and knowledge are necessary for the service of your bicycle. For your safety, only an authorized dealer should install, adjust, or service the frame or the components. Special tools and parts may be required to complete this service. Make sure to set up a maintenance schedule with your dealer to keep your bicycle safe and performing its best. Consult your dealer if you have any questions or concerns about proper setup and riding your bike. Stop riding immediately and consult your dealer if you suspect any problems with your bicycle.

For current service instructions, part numbers, and technical information, visit [www.santacruz bicycles.com](http://www.santacruz bicycles.com). Please contact your local Santa Cruz Bicycles® distributor or dealer for questions and orders. Information contained in this publication is subject to change at any time without prior notice. The appearance of your product appearance may differ from the images contained in this publication.

Adhere to all torque and sizing specifications for press fits and thread fits. Over-tightening can damage threads or cause parts to fail. Using the wrong size part can cause parts to fail and may cause a crash, which can result in serious injury and/or death.

You must register your bicycle in order to make a warranty claim (see the instructions on the Warranty page).

Always wear safety glasses and personal protective equipment, such as latex or nitrile gloves when servicing Santa Cruz Bicycles products.

## BEARING ADJUSTMENT

### INTRODUCTION

For MY17 and earlier models, we recommend completing a bearing adjustment every 20-30 hours of riding, depending on your riding style and riding conditions. For MY18 models, this procedure only needs to be done once after approximately 5-10 hours of riding on new bearings.

### NOTICE

MY17 models have angular contact bearings (bearing number begins with a 7). MY18 models have radial bearings (bearing number begins with a 6). Verify which bearings are on your bike by consulting your bicycle dealer or checking the number on the bearings (colors vary).



ANGULAR CONTACT BEARING



RADIAL BEARING



ANGULAR CONTACT BEARING

### TOOLS AND SUPPLIES

- Safety glasses
- Latex or nitrile gloves
- 5 and 8 mm hex wrenches
- Light-viscosity waterproof grease
- Blue Loctite®

## BEARING ADJUSTMENT PROCEDURE

### LOWER LINK

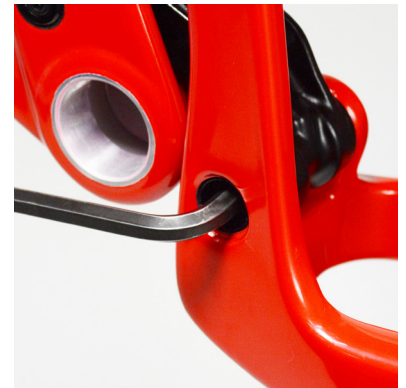
1. Use a 5 mm hex wrench to turn the cone washer bolt counter-clockwise and remove the bolt and washer.

If the cone washer remains installed in the frame after the bolt is removed, gently pry it out with the hex wrench.

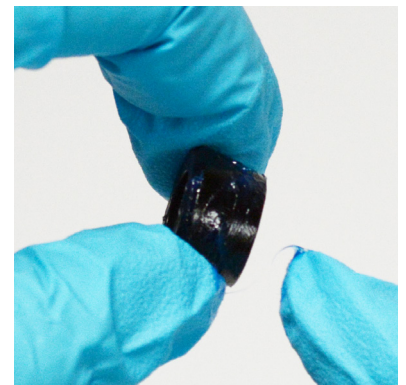


2. **For MY17 and earlier:** Use an 8 mm hex wrench to tighten the pivot axle to 6.8 N·m (60 in-lb).

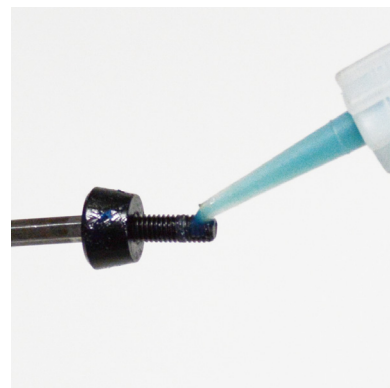
**For MY18 only:** Use an 8 mm hex wrench to tighten the pivot axle to 20.3 N·m (180 in-lb).



3. Use a thin layer of light-viscosity waterproof grease to the outer surface of the cone washer.



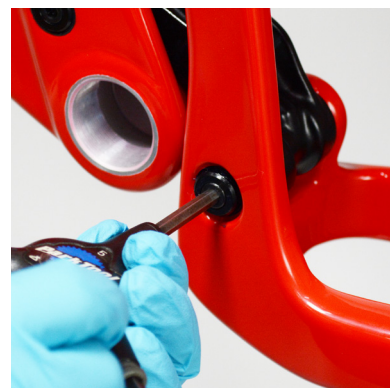
4. Apply a generous amount of blue Loctite® to the bolt.



5. Use a 5 mm hex wrench to reinstall the cone washer and bolt. Tighten the bolt to 9.0 N·m (80 in-lb).

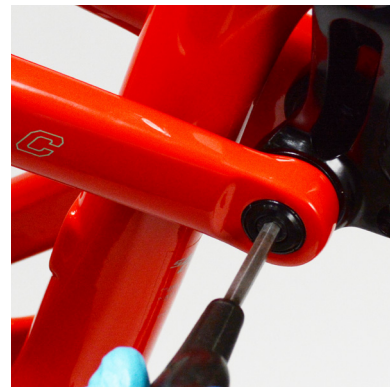
Repeat this entire process for the other bearings of the lower link.

Inspect the bicycle for safe operation before riding it. Consult your dealer for more information.



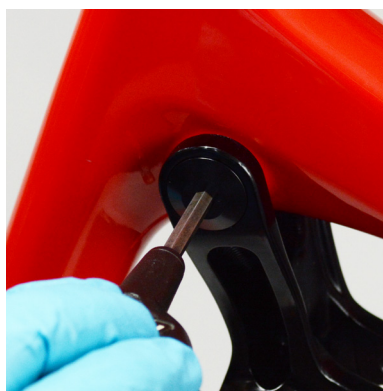
## UPPER LINK

1. The lower link bearing adjustment procedure is identical for the seatstay bearing of the upper link.



2. For the upper link pivot bolts, use a 5 mm hex wrench to turn each pivot bolt clockwise and tighten them to 13.6-15.8 N.m (120-140 in-lb).

Inspect the bicycle for safe operation before riding it. Consult your dealer for more information.



Loctite® is a registered trademark of Henkel AG & Company, KGaA.

## MAINTENANCE SCHEDULE

Bicycle service requires special knowledge and tools and should be performed by a professional bicycle mechanic. This user manual is to be used in conjunction with the manuals supplied by the component manufacturers. If you did not receive the manual provided by the component manufacturer, download the materials off the Internet or contact your local dealer. Consult your local dealer to create a maintenance plan and refer to this Maintenance Schedule as a guide for frequent inspection, service, and replacement of parts.

BEFORE EVERY RIDE	WEEKLY	MONTHLY	EVERY 3 MONTHS	ANNUALLY
Check the frame and fork for signs of stress: scratches, cracks, dents, deformation or discoloration. Inspect the chainstay guard and ensure it is correctly and securely attached	Check that all bolts are tightened to proper torque specifications. Make sure to include pedals and any accessories or luggage carriers.	Check the shifter and brake cables for wear	Inspect the drivetrain for wear	Annual servicing at your dealer: overhaul service and inspection of frame, suspension, and all other components. Repair, service, and/or replace parts as needed
Check that the wheels are true	Check the rims and spokes for damage	Check that the bottom bracket is tightened to proper torque specifications	Inspect the crank arms and pedals	Clean and lubricate all parts as recommended by your component manufacturer's instructions or consult your dealer
Check the tire pressure	Clean the bicycle	Check that the headset is adjusted correctly	Top off grease ports in frame lower links, if applicable	Check for service instructions and intervals for your frame at <a href="http://www.santacruz bicycles.com">www.santacruz bicycles.com</a>
Check the brakes, including brake pads and brake lines	Check the tires for damage and wear	Check that the chain is tensioned correctly	Check tire sealant levels	
Check that both wheels are secure	Clean dust seals on suspension		Inspect suspension parts for wear	
Check that the handlebar and stem are correctly positioned and inspect for signs of stress: scratches, cracks, dents, deformities, and discoloration		Check the chainstay guard and bottom bracket guard (if applicable) for wear		
Check that the suspension settings are at your preferences				
Check that the lighting system and reflectors are in good working order				
Check that the saddle and seatpost are correctly positioned and tightened				
Check for smooth shifting operation				
Lubricate the chain				

This list provides some guidelines, but is not to be considered a complete inspection. Following these guidelines will help maintain the performance of your bicycle and prevent more serious problems from arising. It is important to remember that service intervals can vary depending on climate, trail conditions and riding frequency. For service instructions for your specific components, visit the manufacturer's website. If you detect any problems with your bike, and you are not able to repair them, take your bike to your authorized dealer for service.

## CLEANING

Clean your bicycle with a soft, moist cloth and bicycle cleaner or a solution of dish soap and water. Do not use industrial solvents or harsh chemicals that can damage the paint or moving parts. Do not use high-pressure water. Every three months, clean and polish the frame finish. Some finishes do not require polish. If you are not certain, consult your retailer.



## WARRANTY

### LIFETIME FRAME AND FORK WARRANTY

Santa Cruz Bicycles will repair or replace at its option any frame or rigid fork made by Santa Cruz Bicycles it determines to be defective in materials or workmanship. The warranty will be in effect for the lifetime of the frame or rigid fork and is available only to the original, registered owner. In order to confirm that you are the original owner, please register using our [Warranty Registration Form](#) at the time of purchase. Notwithstanding the foregoing, frames purchased prior to May 1, 2015 are covered under the previously-existing warranty for five years from the original date of purchase.

### LIFETIME BEARING WARRANTY

Santa Cruz Bicycles pivot bearings are warranted for life to the original owner of the bike. The return process is simple: fill out the Warranty Bearing Replacement Form, upload a copy of your purchase receipt, and we'll get a new set of bearings out to you within 48 hours!

#### HANDLEBARS

Santa Cruz carbon handlebars are warranted against defects in materials and workmanship for a period of five years from the original date of purchase.

#### NO-FAULT REPLACEMENT

Santa Cruz Bicycles will make replacement frame parts available to the original, registered owner at a reduced charge in the event of a crash or other non-warranty situation for the life of the bike.

#### FILE A WARRANTY CLAIM

Something not right? Use our Warranty Claim Form to file a warranty claim. We'll do everything we can to get you back to riding as fast as possible.

If you have any other questions, or would like to follow up on a warranty claim, contact our Warranty Department.

#### LIMITATIONS, EXCLUSIONS, AND DISCLAIMERS

The sole remedy available under the foregoing express warranty and all implied warranties is the repair or replacement of defective parts with those of equal or greater value, as determined by Santa Cruz Bicycles in its sole discretion. The warranty does not cover labor costs, custom finishes, normal wear and tear, or damage from commercial use. The warranty is void if the part is modified from its original condition in any manner or used outside normal intended use, as determined by Santa Cruz Bicycles in its sole discretion. The warranty for damage arising from accidents, crashes and other impacts is limited to offered replacement at a reduced charge as set forth above.

THE FOREGOING WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY OFFERED BY SANTA CRUZ BICYCLES. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, ALL OTHER EXPRESS AND IMPLIED WARRANTIES (INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) ARE HEREBY DISCLAIMED. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL SANTA CRUZ BICYCLES OR ANY OF ITS OWNERS, OFFICERS, EMPLOYEES, REPRESENTATIVES, AGENTS, OR AFFILIATES (OR ANY OF THEIR RESPECTIVE SUCCESSORS OR ASSIGNS) BE RESPONSIBLE OR OTHERWISE LIABLE FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE PURCHASE, USE, OR OWNERSHIP OF ITS PRODUCTS, INCLUDING WITHOUT LIMITATION DAMAGES FOR PERSONAL INJURY, PROPERTY DAMAGE, OR ECONOMIC LOSSES, WHETHER BASED ON CONTRACT, WARRANTY, NEGLIGENCE, PRODUCT LIABILITY, OR ANY OTHER THEORY.

Some states and countries do not allow some or all of the foregoing exclusions or limitations, so they may not apply to you. If any portion of the foregoing warranty (or the exclusions or limitations thereto) is deemed invalid or unenforceable pursuant to applicable law, it shall be deemed modified so as to be valid and enforceable to the maximum extent consistent with such law. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and country to country.

To print the forms mentioned above and to view the most current warranty information please visit <http://www.santacruz bicycles.com/en-US/warranties>.









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