Cane Creek
Crono Wheel Instructions: Strados & Terros

Introduction

Unique Design: Crono defines our proprietary technology (US Patent 5810453) of spoke nipples at the hub, spoke heads at the rim, and high-tension straight pull spokes. No weird, noodle like composite materials or dicey double-threaded spokes. The Crono design is different but very sensible.

Light weight: The high spoke tension allows the use of fewer spokes. And the reorientation of the spoke nipples at the hub reduces crucial rotating mass, making the Cronos the lightest-feeling wheels you can ride.

Acceleration and Stability: The high spoke tension and low rotating mass yield instant responsiveness and robust lateral stability. The wheels track beautifully straight and give you an eye-opening stiffness and speed into and out of corners.

Durability: The combination of high-tension straight-pull spokes secured by Nylock® reinforced nipples makes Crono wheels much more resistant to deviating from their original trueness.

Serviceability: As with traditional wire-spoked wheels, truing adjustments are simple and intuitive; and crash damage can be quickly rectified without having to give up the entire wheel.

Use

Cane Creek Crono wheels are intended for single rider 2 wheel road or mountain bicycles, with conventional rim brakes or disc brakes. Use on tandems, or with hub mounted braking systems is not recommended. Always observe safe cycling practices.

Installation of Rim Strips

It is necessary to install rim protective strips before mounting tires and tubes. Use a high quality rim strip that is wide enough to cover the spoke access holes completely. For adhesive backed rim strips, we recommend a minimum width of 15 mm for road wheels, and a minimum width of 17 mm for mountain wheels. For non-adhesive “Stretch-on” poly rim strips, widths of 17 mm (road) and 19 mm (mountain) are recommended. Rim strips are not required for tubular wheels. Some Terros wheels ship with “Tubeless Compatible” rim strips and air valves. The “Tubeless Compatible” rim strips can be used with conventional tires or “UST” tires. Please refer to the “Tubeless Compatible” instructions provided with your wheels.

Installation of Tubes and Tires

There are no special requirements for mounting tires on Crono wheels. All road and mountain rims are drilled for Presta valves. As always with clinchers, don’t use any sharp metal tools that can damage the tire, tube or rim. Check to be sure the tire and tube are properly seated before inflating to maximum pressure.

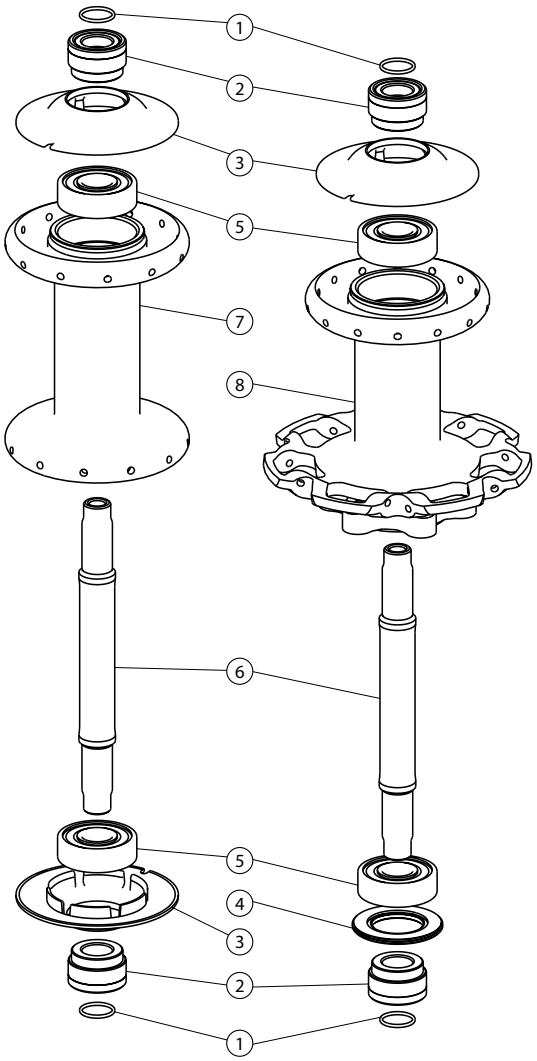
Quick-Release Skewers

Crono wheels ship with Cane Creek Quick-Release Skewers. If you choose not to use the provided “QR’s”, make sure to choose a high quality, strong and reliable quick release with Crono wheels.

NOTICE! *Always check that the quick-release skewer is firmly attached before every ride.*

Wheel Truing

Crono wheels are designed to stay straight, due to the unique configuration and high spoke tension. Should the wheels ever require truing, a 3/16” open end wrench is provided for turning the spoke nipples. The truing procedure is basically the same as for a conventional spoked wheel, except that the nipples are at the hub. The cassette cogs will have to be removed to provide access to the drive-side spoke nipples (road or mtn. wheel). If significant truing or spoke replacement is required, it is necessary to maintain the target spoke tensions as closely as possible. A Spoke Length/Tension Guide is provided on the following page if spoke replacement or repair is necessary. We recommend that any truing of Cane Creek Crono wheels be performed by an experienced bicycle shop mechanic/wheel builder.



Exploded Front Hub Assy

1. O-Ring
2. End Cap
3. Spoke Cover
4. Seal, Metal Backed
5. Bearing (10 x 26)
6. Axle - front
7. Hub Shell - Front Road & MTN
8. Hub Shell - Front Disc

2005 Crono Wheel Spoke Length/Tension (2.5G Hubs)				
Wheel	Road		Mountain	
	Front	Rear	Front	Rear
		non/drive	non/rotor	non/drive
Strados	277mm	278/280mm		
Terros			256mm	255/258mm
Terros Tubeless			253mm	254/257mm
Terros Disc			255/259mm	259/259mm
Terros Tubeless Disc			253/257mm	257/257mm
Spoke Tension: Road	120kg	100/120kg	100/120kg	120/120kg

WARNING *Never try to straighten a J-bend spoke as a substitute for a straight-pull spoke in a Crono wheel.*

Spoke Information

Crono wheels employ 2.0 (14 gauge) straight spokes. These are “standard” spoke configurations, but may not be readily available. Replacement spokes and nipples are available from Cane Creek, or proper spokes can be cut to length at a suitably equipped bicycle shop. Never use a J-bend spoke in a Crono wheel. Never try to straighten a J-bend spoke as a substitute for a straight pull spoke. We recommend that you have spokes replaced at your local bicycle shop. Refer to the Spoke Length/Tension Guide (above) if replacement is necessary.

Safety and Maintenance

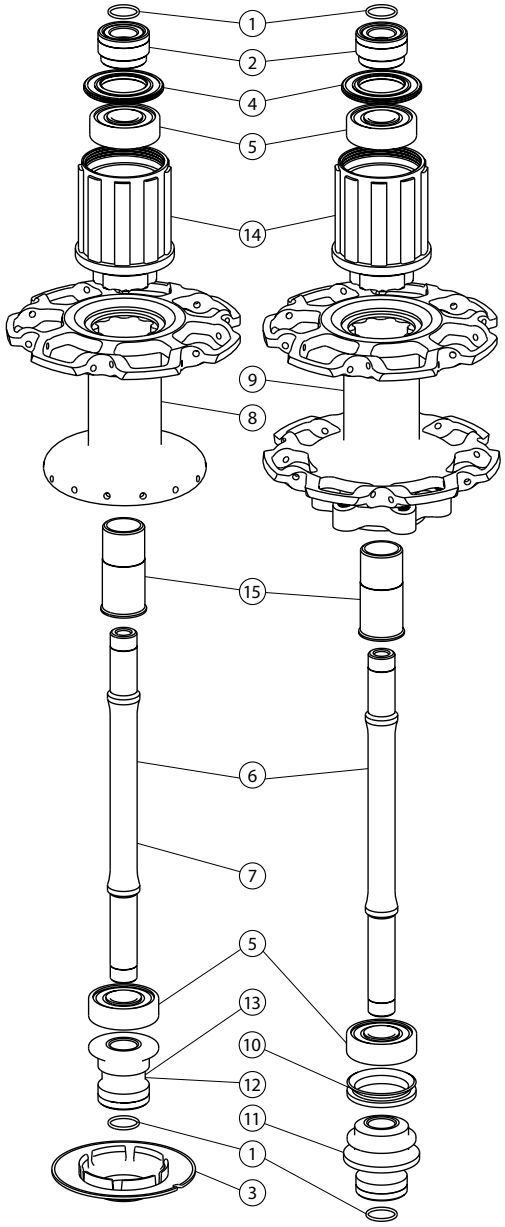
Although a Cane Creek Crono wheel is engineered for strength and durability, it is in fact a high performance lightweight bicycle component and not designed to withstand constant abuse. A little care and attention will extend the life of your wheels and your safety. Periodically inspect the rims for dings, cracks or excessive wear. Inspect the hub shells for cracks near the spoke holes, or on the flanges. If any cracks are present, do not ride the wheels. Take them to a bicycle shop for service. Be sure all of the spoke nipples are secure. Check your quick release for proper function. Check the performance of the axle bearings, and the rear freehub. Clean the wheels with water and a household, automotive or bicycle detergent. Do not use solvents or abrasives for cleaning.

Bearing Replacement

While the sealed cartridge bearings used in the Crono 2.5G hubs are very durable, eventually they may need to be replaced due to wear or contamination. The bearings in the front and rear Crono 2.5G hubs can be disassembled easily. Slide the end caps off the end of the axle by hand. Using a light hammer or press, tap one end of the axle until the far side bearing is clear of the housing. Before removing the axle, turn the hub around and carefully tap the remaining bearing out as well. Note the orientation of the axle when it is removed (not all the axles are symmetric). Press a new bearing into one end of the hub using an old bearing as a drift (pressing on the outer race only). Reinsert the axle into the hub being sure that the orientation is the same as when removed. Press the remaining bearing into place by applying equal pressure to both the inner and outer race as it is pushed into position. Replace the end caps on the axle ends. Reinstall the quick release skewer and spoke covers. We recommend having the bearing replacement procedure carried out by a professional bicycle mechanic.

WARRANTY

Cane Creek Cycling Components warrants its bicycle products for a period of 2 years from the original date of purchase. Any product that is found to be defective in materials or workmanship will be repaired or replaced at the discretion of Cane Creek. This warranty applies to the original owner only. This warranty does not cover damage or failure resulting from misuse, abuse, alteration, neglect, wear and tear, crash or impact, lack of maintenance or other conditions judged by Cane Creek to be abnormal, excessive, or improper. It is mandatory that a Return Authorization Number (RA#) be obtained by calling Cane Creek before any product is returned. Additionally, a dated Proof of Purchase must accompany the product when returned.



Exploded Rear Hub Assy

1. O-Ring, 10x1
2. End Cap
3. Spoke Cover
4. Seal - Metal Backed
5. Bearing (10 x 26)
6. Axle - Rear MTN & Disk (135mm)
7. Axle - Rear Road (130mm)
8. Hub Shell - Rear Road & MTN
9. Hub Shell - Rear Disc
10. V-Seal
11. End Cap - Rear Disc
12. End Cap - Rear MTN
13. End Cap - Rear Road
14. Freehub
15. Freehub Bolt