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Technical Bulletin

2003 X440 Front Wheel Replacement

ISSUED: 9/24/02

BULLETIN: TB02-09-04

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MODELS: A small population of 2003 model year X440 motorcycles are affected. See "Vehicle identification numbers affected" starting on page 4.

CONDITION: The front wheel spoke nipples of affected units can loosen under normal riding conditions. A loose spoke nipple will result in incorrect tension or damage to the spokes. This can cause the front wheel to run out of alignment - negatively affecting handling and stability. Under extreme conditions a loose or over-tightened spoke nipple can result in spokes breaking under normal wheel loads. Jumping or racing can result in a sudden wheel collapse due to a multiple "domino-like" spoke failure. The rider can be severely injured or killed in an accident.

SOLUTION: The front wheel assembly (hub, spokes, rim, and spoke nipples) on affected units must be removed and a replacement assembly installed.

PARTS: To simplify the replacement service and reduce shop time, Cannondale will automatically ship replacement wheel assemblies to dealerships with invoiced units.

Do NOT order parts for this service bulletin.

Service kit P/N 015-5000020 will be automatically shipped to the attention of the SERVICE MANAGER at dealerships having invoiced units affected by this bulletin.

Replacement cost of reused parts (tire, rim lock, wheel spacers, rim strip) is NOT covered under this service bulletin.

CUSTOMER INFORMATION : You should not attempt to perform the procedures described in this bulletin or assume that the information contained in this bulletin applies to your vehicle. The bulletin is intended for use only by skilled motorsports service technicians who are equipped with the proper tools and equipment necessary to correctly and safely perform the service described. Always consult an authorized Cannondale Motorsports Dealer to determine if a service procedure described is necessary for your vehicle and to schedule professional service.

Information is subject to change without notice.

REPLACEMENT PROCEDURE

Removing and assembling the replacement wheel

1. Remove the front wheel.
2. Disassemble the removed front wheel. Retain the right and left wheel spacers, tire, tube, rim strip, and rim lock from the removed wheel.
3. Tag the disassembled wheel assembly (rim, spoke nipples, spokes, hub, bearings, seals, and bearing spacer immediately with a Warranty Parts Tag for return to Cannondale. See "Removed Parts" starting on page 2.
4. Assemble the replacement wheel assembly with the removed parts. Inspect each part carefully during reassembly. Replacement cost is not covered under this service bulletin.

Remounting the wheel

CAUTION :

Follow the installation steps provided. Incorrect wheel installation can result in severe damage (e.g., binding during fork travel) to the fork legs.

1. Clean the front wheel axle and the inside of the axle holders (forks) with contact cleaner. Thoroughly dry them with a rag, and apply a light coat of high-quality water-proof grease to the wheel axle.
2. Apply a light coat of high-quality water-proof grease to the dust seal lips.
3. Make sure both spacers are clean and install the wheel spacers into the wheel. The left wheel spacer is the larger one and should be installed on the brake disc side with the "FRONT DISC" mark facing out.
4. Position the front wheel between the fork legs, and install the axle from the right side.
5. Install the front wheel axle nut and tighten to 14.0 lbf•ft (19.0 N•m)
6. Tighten the left axle pinch bolts (brake caliper side) to 14.0 lbf•ft (19.0 N•m)

7. Take the motorcycle off the stand. Squeeze and hold the brake lever, and compress the front forks several times.
8. Tighten the right front wheel axle pinch bolts to the specified torque.
9. Spin the front wheel a few times to make sure that it rotates smoothly and the brake disc is not rubbing against the brake pads. Then, take the motorcycle off the stand, roll it forward and backward a few times, apply the front brake, and make sure it operates properly.

REMOVED PARTS

DO NOT deliver the removed wheel assembly to the consumer!

1. Complete and attach a Warranty Parts Tag, P/N 931-5001269 provided with the service kit to the removed wheel assembly.
2. Package the entire tag/removed wheel assembly in the replacement wheel assembly shipping box.
3. Apply the shipping label provided with the service kit to the outside of the box.
4. Contact the shipping provider for free pickup and delivery to: Warranty Parts Return, Cannondale Corporation, Bedford County Business Park, 2 Corporate Drive, Bedford, PA 15522.


REIMBURSEMENT

Submit a regular Cannondale Warranty Claim Form, P/N 931-5000865 provided with the service kit.

Send the form only to: Cannondale Corporation, 172 Friendship Village Road, Bedford, PA 15522-6600.


Complete the form with the following information:

VEHICLE INFORMATION OWNER INFORMATION DEALER INFORMATION	(as required)	
REPAIR INFORMATION	Date Problem Occurred	(leave blank)
	Date Repaired	Date of repair
	Problem Code	090
	Labor Code	SW050
	Labor Time	.5 hrs
TYPE OF CLAIM	Service Campaign	(check)
PROBLEM DESCRIPTION	"Perform service Bulletin SB02-016"	
REPAIR PERFORMED	(leave blank)	
PRIMARY FAILED PART NUMBER		
QTY	1	
PRIMARY FAILED DESCRIPTION	Front wheel	



CANNONDALE MOTORSPORTS

Warranty Claim Form



PLEASE TYPE OR PRINT CLEARLY.

VEHICLE INFORMATION VIN # _____ Engine # _____ Year _____ Model _____ Miles _____ Hours _____ Date Sold _____	DEALER INFORMATION Open Account # _____ Dealership Name _____ Street Address _____ City _____ State _____ Zip Code _____ Phone () _____	OWNER INFORMATION Owner Name _____ Street Address _____ City _____ State _____ Zip Code _____ Phone () _____	REPAIR INFORMATION Date Problem Occurred _____ Date Problem Repaired _____ Problem Code _____ Labor Code _____ Labor Time _____
TYPE OF CLAIM <input type="checkbox"/> Warranty Repair <input type="checkbox"/> Service Campaign <input type="checkbox"/> Policy Exception	PROBLEM DESCRIPTION _____ _____		REPAIR PERFORMED _____ _____
Authorization Number _____		<small>NOTE: The Warranty Claim Form must be received by Cannondale within 10 days of the date repaired. Parts returns must be received within 10 days of notification.</small>	
PRIMARY FAILED PART NUMBER	QTY	PRIMARY FAILED PART DESCRIPTION	SERVICE DEPT. INFORMATION Repair Order Number _____ Repair Order Date _____ Technician's Name _____
ADDITIONAL PART NUMBERS REPLACED	QTY	ADDITIONAL PART DESCRIPTION	SUBLET LABOR (receipt Required) Sublet Labor Description _____ Sublet Labor Cost \$ _____
CANNONDALE USE Date Received _____ Reviewed By _____ Parts Return Required? <input type="checkbox"/> Yes <input type="checkbox"/> No Yes-Send call tag Date Parts Received _____ Approved? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Incomplete Yes Copy to credit dept No Copy to dealer Incomplete Return to dealer Return Code _____ Date Resubmitted _____			Parts Credit \$ _____ Labor Credit \$ _____ Sublet Credit \$ _____ Total Credit \$ _____
I certify that this repair was actually performed and conforms to Cannondale's Service Policy and Procedure. X _____ Date _____		I certify that this repair was performed to my satisfaction. Owner's Signature _____ Date _____	

Mailing address:
 Form only: Cannondale Corporation, 172 Friendship Village Road, Bedford, PA 15522-6600 Fax: 1-877-MOTO-FAX (668-6329)
 Form with parts: Warranty Parts Return, Cannondale Corporation, Bedford County Business Park, 2 Corporate Drive, Bedford, PA 15522
 www.cannondale.com White copy: Dealer Yellow copy: Owner Pink copy: Credit, Cannondale Corp. Gold copy: Cannondale Corp. 931-5000865 3/00

VEHICLE IDENTIFICATION NUMBERS AFFECTED

2003 X440			
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2003 S440

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