



Technical Publications

SERVICE BULLETIN

Bulletin Number	Issue date	Model(s) Affected	Subject
SBM00002	8/7/00	2001 MX400 - up to and including VIN 5B6AA11C21B000034	transmission mainshaft circlip groove inspection

Dear Cannondale Motorsports Dealer,

Please inspect for the following condition: Incorrect transmission mainshaft circlip groove machining.

If the circlip groove is machined incorrectly, the clip retaining the clutch hub can be pushed off of the shaft by the hub and allow the hub to move outward on the shaft. When this occurs, the clutch cannot be disengaged. Please inspect the circlip groove according to the procedure in this bulletin.

Best Regards,

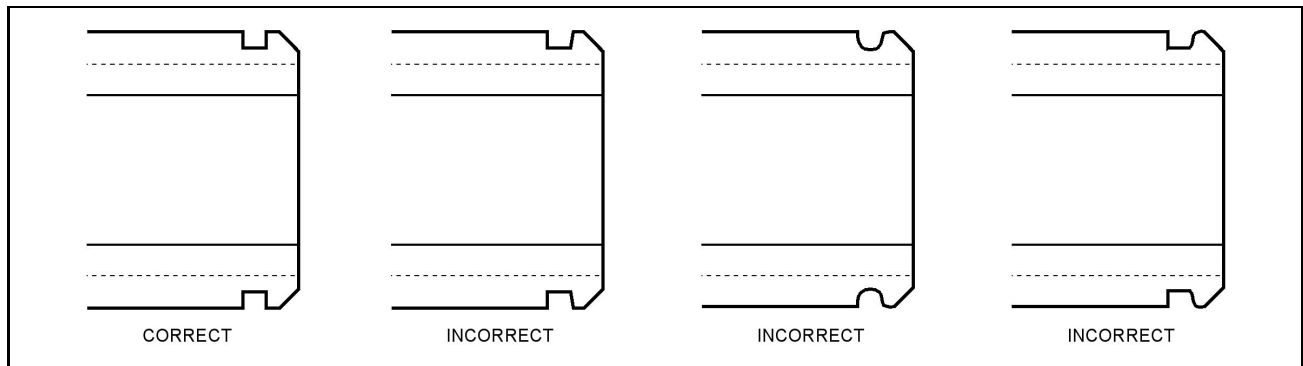
The Cannondale Aftersales Support Team

TRANSMISSION MAINSHAFT CIRCLIP GROOVE INSPECTION

- 1 Secure the motorcycle in a vertical position on a suitable stand.

NOTE: The transmission oil level is below the clutch cover and the oil does not need to be drained to perform this procedure. The clutch cover seal does not need to be replaced for this procedure

- 2 Remove the shift lever bolt and remove the shift lever.
- 3 Remove the clutch cover.
- 4 Remove the six bolts, washers, and springs securing the clutch pressure plate. Loosen the bolts in stages in a criss-cross pattern.
- 5 Remove the pressure plate.
- 6 Remove the clutch plates.
- 7 Remove the circlip retaining the clutch hub.
- 8 Inspect the circlip groove with a minimum 10x magnifying lens for the conditions illustrated. Holding a white piece of paper opposite the side of the groove being inspected will improve the contrast.



- 9 Inspect each spline individually as the condition of the groove may vary between splines. If more than 5 splines in total or 3 in a row exhibit an incorrect condition, the shaft must be replaced. Please call Cannondale Dealer Service at (877) 357-6686 for the procedure. If the circlip groove is correct install the new circlip supplied with the rounded edge of the circlip toward the clutch hub.

WARNING

The circlip must be installed with the rounded edge of the circlip facing the clutch hub. If installed in the opposite direction the circlip can be pushed off of the shaft by the clutch hub and allow the hub to move outward on the shaft. When this occurs, the clutch cannot be disengaged and may cause the rider to lose control of the motorcycle.

- 10 Install the clutch plates.

- 11 Install the pressure plate.
- 12 Install the six bolts, washers, and springs. Start the bolts several turns by hand and tighten in stages in a criss-cross pattern. TORQUE: 3.3lbf-ft. (4.5Nm).
- 13 Install the shift lever and bolt. TORQUE: 3.3lbf-ft. (4.5Nm)
- 14 Test ride the motorcycle.

REIMBURSEMENT

Follow the procedure for completing and submitting the Warranty Claim Form in the service policy section of the Motorcycle *Parts and Service Policy Manual*.

On the *Warranty Claim Form*

REPAIR INFORMATION

Date Problem Occurred:..... leave blank.
Date Problem Repaired..... enter date repaired.
Problem Code 350.
Labor Code..... TC030.
Labor Time (.3).

TYPE OF CLAIM

Service Campaign: check.
Authorization Number..... SBM00002
Problem Description: "Perform Service Bulletin SBM00002".
Repair Performed leave blank.

PRIMARY FAILED PART NUMBER: 543-5000288.

PRIMARY FAILED PART DESCRIPTION: transmission mainshaft

Please discard the removed circlip.

A dealership representative must sign the form. If the motorcycle has been delivered the owner must also sign the form.

Mail the completed form within 10 days of the date repaired to the Form only address at the bottom of the form.