

1984 Corvette: Recall: Product Safety Campaign 84C25 Rear Axle Differential Cross Shaft



Subject: Product Safety Campaign 84C25 Rear Axle Differential Cross Shaft

Model and Year: 1984 Chevrolet Corvette Models

Source: Chevrolet Dealer Product Campaign Bulletin

Bulletin No: 84C25

Section: 4B

Date: September, 1985



CHEVROLET MOTOR DIVISION
General Motors Corporation



Chevrolet Dealer Product Campaign Bulletin

84C25

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Subject: PRODUCT SAFETY CAMPAIGN 84C25
REAR AXLE DIFFERENTIAL CROSS SHAFT

Attn: Service Manager

Model and Year: 1984 CHEVROLET CORVETTE MODELS

TO: ALL CHEVROLET DEALERS

The National Traffic and Motor Vehicle Safety Act, as amended, provides that each vehicle which is subject to a recall campaign of this type must be adequately repaired within a reasonable time after the owner has tendered it for repair. A failure to adequately repair within 60 days after tender of a vehicle is prima facie evidence of failure to repair within a reasonable time.

If the condition is not adequately repaired within a reasonable time, the owners may be entitled to an identical or reasonably equivalent vehicle at no charge or to a refund of the purchase price less a reasonable allowance for depreciation.

To avoid having to provide these burdensome solutions, every effort must be made to promptly schedule an appointment with each owner and to repair their vehicle as soon as possible. As you will see in reading the attached copy of the letter which is being sent to owners, the owners are being instructed to contact the nearest Chevrolet Zone Office if their dealer does not remedy the condition within five days of the mutually agreed upon service date. If the condition is not remedied within a reasonable time, they are instructed on how to contact the National Highway Traffic Safety Administration.

DEFECT INVOLVED

General Motors has determined that a defect which relates to Motor Vehicle Safety exists in some 1984 Chevrolet Corvette models. Some 1984 Corvettes may experience loss of the wire snap rings that retain the differential cross shaft in its proper position in the rear axle differential case assembly. This may result in the differential cross shaft protruding out of the differential case assembly and contacting the carrier or pinion teeth, possibly locking up the rear wheels and resulting in a vehicle crash without prior warning.

GSD 148D
Rev. 6-85

DEFECT INVOLVED (CONT'D)

To prevent the possibility of this condition occurring a rear axle differential cross shaft retention kit will be installed on all involved vehicles.

VEHICLES INVOLVED

The involved vehicles are identified within the following vehicle parameters:

<u>PLANT</u>	<u>FROM</u>	<u>THROUGH</u>
Bowling Green	E5100001	E5148659

Involved vehicles have been identified by Vehicle Identification Number Computer Listings. Computer listings contain the complete Vehicle Identification Number, owner name and address data, and are furnished to the involved dealers with the campaign bulletin. Owner name and address data furnished will enable dealers to follow-up with owners involved in this campaign.

These listings may contain owner names and addresses obtained from State Motor Vehicle Registration Records. The use of such motor vehicle registration data for any other purpose is a violation of law in several states. Accordingly, you are urged to limit the use of this listing to the follow-up necessary to complete this campaign. Any dealer not receiving a computer listing with the campaign bulletin was not shipped any involved vehicles.

OWNER NOTIFICATION

Owners will be notified of this campaign on their vehicles by Chevrolet Motor Division (see copy of Owner Letter included with this bulletin).

DEALER CAMPAIGN RESPONSIBILITY

Dealers are to service all vehicles subject to this campaign at no charge to owners, regardless of mileage, age of vehicle, or ownership, from this time forward.

Whenever a vehicle subject to this campaign is taken into your new or used vehicle inventory, or it is in your dealership for service in the future, you should take the steps necessary to be sure the campaign correction has been made before reselling or releasing the vehicle.

DEALER CAMPAIGN RESPONSIBILITY

Owners of vehicles recently sold from your new vehicle inventory are to be contacted by the dealer, and arrangements made to make the required modification according to instructions contained in this bulletin.

SERVICE PROCEDURE

1. Remove differential carrier and cover assembly from vehicle following appropriate procedure noted in 1985 Corvette Shop Manual.
2. With differential carrier and cover assembly positioned on a suitable working surface, remove six (6) bolts securing cover to differential carrier, remove cover and drain lube.
3. Remove snap rings retaining differential output yokes and slide yokes out of the assembly.

TAG YOKES AND SNAP RINGS TO INDICATE WHICH SIDE THEY WERE REMOVED FROM TO INSURE PROPER REASSEMBLY.

4. Remove differential cross shaft retaining clips and discard.

IF ONE OR BOTH RETAINING CLIPS ARE NOT PRESENT ON CROSS SHAFT, INSPECT DIFFERENTIAL CARRIER FOR MISSING CLIPS TO INSURE THEIR REMOVAL PRIOR TO REASSEMBLY.

5. Rotate case assembly to position illustrated in Figure 1. With appropriate size drift and small mallet, lightly tap on cross shaft to determine if movement of shaft can be achieved.

EXCESSIVE IMPACTING OF CROSS SHAFT CAN RESULT IN DAMAGING OF DIFFERENTIAL SIDE BEARINGS.

6. Based on determination made in performing previous step, proceed to remove existing cross shaft and install new cross shaft by one of the following methods:

- a. Loose Cross Shaft - (Movement can be achieved with light tapping).

Tap cross shaft inboard approximately $1\frac{1}{4}$ inches and rotate case 180°. Utilizing vise grips and a back and forth motion, remove shaft. Install new cross shaft insuring detents in the shaft are positioned properly to accept spheres (balls) to be installed between shaft and output yokes as illustrated in Figure 2.

- b. Tight Cross Shaft - (No movement can be achieved with light tapping).

SERVICE PROCEDURE (CONT'D)

Remove case assembly from carrier following appropriate procedure in 1985 Corvette Shop Manual. Press existing cross shaft out of case and install new cross shaft insuring detents in the shaft are positioned properly to accept spheres (balls) to be installed between shaft and output yokes as illustrated in Figure 2. Reinstall case assembly following appropriate 1985 Shop Manual procedure.

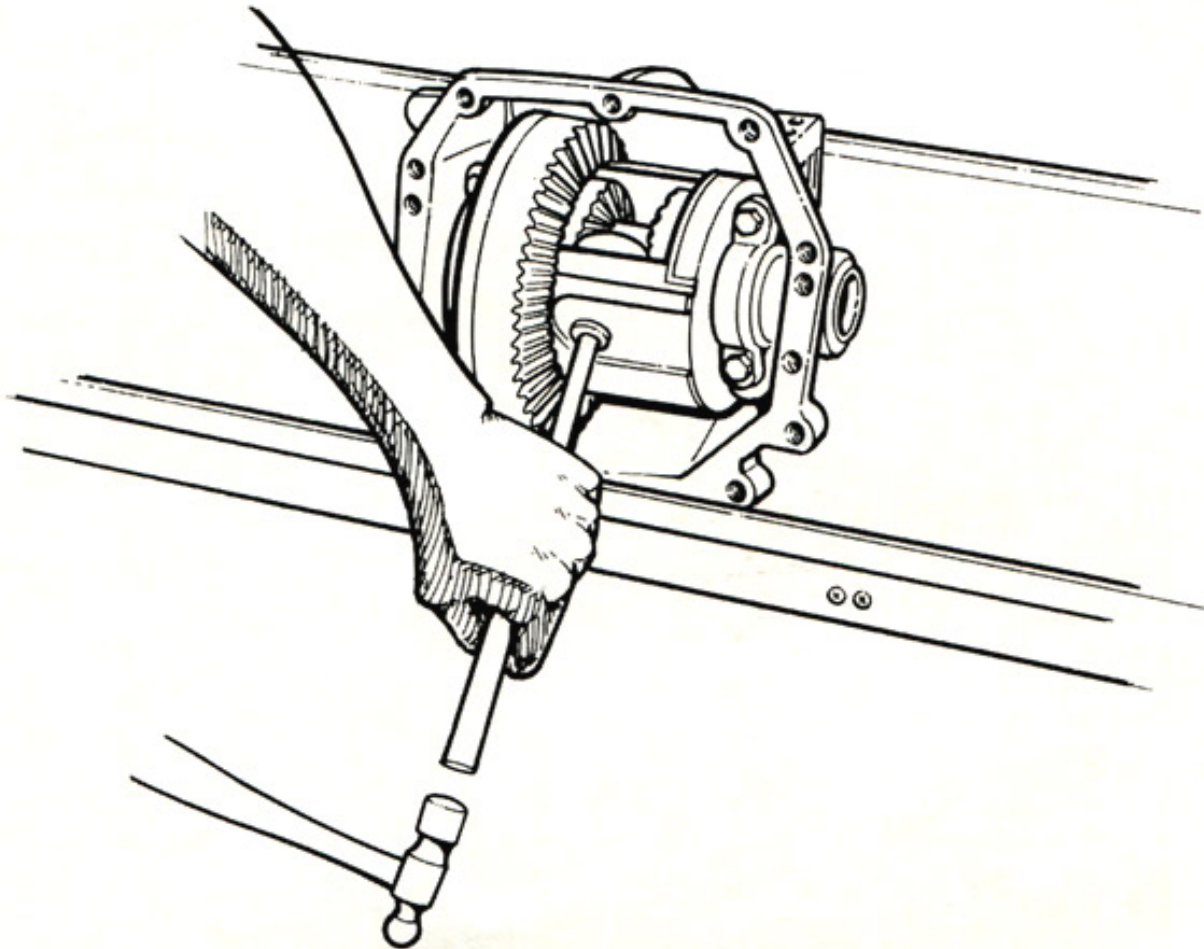


FIGURE 1

7. Install new differential cross shaft retaining clips and insure they are properly seated.
8. Clean differential output yokes of any oil and dirt. Place a small amount of standard wheel bearing grease on the ends of the output yokes at the inboard (spline end) center drill hole.
9. Place sphere (balls) in the center drill holes of the output yokes. Install output yokes, insuring spheres (balls) will be positioned properly in the detents of the differential cross shaft.

SERVICE PROCEDURE (CONT'D)

10. Install differential output yoke snap rings and insure they are properly seated. Visually inspect that spheres (balls) are in proper position after snap ring installation and seating.

TAPPING INBOARD ON OUTPUT YOKES MAY BE REQUIRED TO INSURE SNAP RINGS CAN BE PROPERLY SEATED IN OUTPUT YOKE GROOVES.

11. Clean mating surfaces of cover and differential carrier insuring surfaces are free of any oil film and/or foreign material. Apply a continuous $\frac{1}{4}$ " bead of RTV to the mating surface of the carrier.

RTV BEAD MUST BE POSITIONED INBOARD AROUND THE BOLT HOLES TO INSURE PROPER SEALING OF THE ASSEMBLY.

12. Position cover on carrier and install the six (6) attaching bolts. Torque bolts to 27-34 Nm (20-25 Ft. Lbs.) while RTV is still wet.
13. Install differential carrier and cover assembly in vehicle following appropriate procedure noted in 1985 Corvette Shop Manual.
14. Install Campaign identification label.

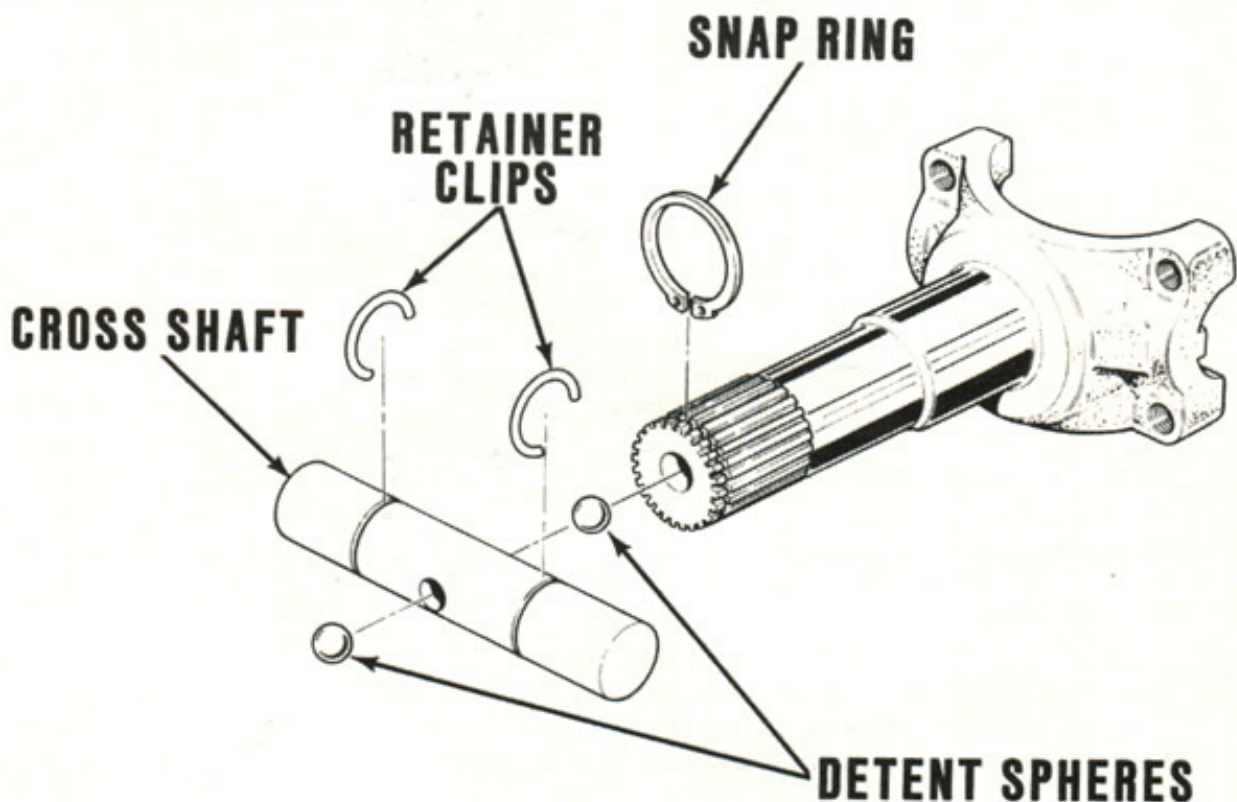


FIGURE 2

PARTS INFORMATION

Parts required to complete this modification are to be obtained from General Motors Warehousing and Distribution Division (GMWDD). To ensure that these parts will be obtained as soon as possible they should be ordered from GMWDD on a C.I.O. order with no special instruction code, but on an advise code (2).

<u>Part Number</u>	<u>Description</u>	<u>Quantity Per Vehicle</u>
14105604	Rear Axle Differential Cross Shaft Retention Kit	1
1052358	Friction Modifier (4 oz.)	1
1052271	Lubricant (24 oz.)	2

CLAIM INFORMATION

Submit a Product Campaign Claim with the information indicated below:

<u>Parts Count</u>	<u>Failed Part No.</u>	<u>**Parts Allowance</u>	<u>Failure Code</u>	<u>Labor Operation</u>	<u>Labor Hours</u>	<u>*Other Hours</u>
4	14105604		00	V2910	3.5	.1

DESCRIPTION: Install Rear Axle Differential Cross Shaft Retention Kit without case removal according to the instructions outlined in this bulletin.

<u>Parts Count</u>	<u>Failed Part No.</u>	<u>**Parts Allowance</u>	<u>Failure Code</u>	<u>Labor Operation</u>	<u>Labor Hours</u>	<u>*Other Hours</u>
4	14105604		00	V2911	3.9	.1

DESCRIPTION: Install Rear Axle Differential Cross Shaft Retention Kit with case removed according to the instructions outlined in this bulletin.

*Campaign Administrative Allowance.

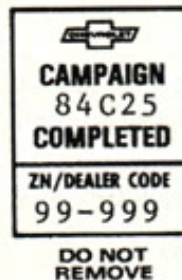
**The Parts Allowance should be the sum total of the current GMWDD Dealer Net plus 30% of all parts required for the repair.

Dealers will automatically receive the correct labor allowance based on the labor operation performed.

Refer to the Chevrolet Claims Processing Manual for details on Product Campaign Claim submission.

CAMPAIGN IDENTIFICATION LABEL

Each vehicle modified in accordance with the instructions outlined in this Product Campaign Bulletin will require a "Campaign Identification Label." Each label provides a space to include the five digit dealer code of the dealer performing the campaign service. This information may be inserted with a typewriter or ballpoint pen.



Each "Campaign Identification Label" is to be located on the radiator core support in an area which will be visible when the vehicle is brought in for periodic servicing by the owner.

Apply "Campaign Identification Label" only on a clean dry surface.

ADMINISTRATIVE PROCEDURE

REFER TO THE CURRENT CHEVROLET SERVICE POLICIES AND PROCEDURES MANUAL AND CLAIMS PROCESSING MANUAL FOR CAMPAIGN HANDLING AND ADMINISTRATIVE PROCEDURES.

Chevrolet Motor Division
General Motors Corporation

Chevrolet bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer." They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your Chevrolet dealer for information on whether your vehicle may benefit from that information.

Online URL:

<https://www.corvetteactioncenter.com/tech/knowledgebase/article/1984-corvette-recall-product-safety-campaign-84c25-rear-axle-differential-cross-shaft-1118.html>