



GENERAL MOTORS NORTH AMERICA
Safety Center

00V-055 (1)

February 25, 2000

Mr. K. N. Weinstein
 Associate Administrator for Safety Assurance
 National Highway Traffic Safety Administration
 400 Seventh Street, S.W.
 Washington, D.C. 20590

Dear Mr. Weinstein:

The following information is submitted pursuant to the requirements of 49 CFR 573.5 as it applies to a determination by General Motors of defect which relates to motor vehicle safety involving certain 2000 light duty trucks.

573.5(c)(1): Chevrolet and GMC Divisions of the General Motors Corporation.

573.5(c)(2)(3)(4): This information is shown on the attached sheet.

573.5(c)(5): General Motors has decided that a defect which relates to motor vehicle safety exists in certain 2000 Chevrolet 2 and 4-wheel drive Silverado pickup trucks, GMC 2 and 4-wheel drive Sierra pickup trucks, Chevrolet 4-wheel drive extended-cab S-10 pickup trucks, and GMC 4-wheel drive extended-cab Sonoma pickup trucks equipped with 4 wheel disc brakes. Some of these vehicles have an Antilock Brake System (ABS) motor containing an out-of-specification spring clip. As the number of ABS stops accumulates, this clip could allow the motor bearing to become misaligned. If misalignment occurs, the noise during ABS activation caused by the ABS motor will become progressively louder, and retainer/bearing friction will increase, resulting in higher motor-current draw. Eventually, this could render the ABS non-functional. If this occurs, both the amber ABS warning light and the red brake warning light will illuminate. The base brakes would remain fully functional, but the Dynamic Rear Proportioning (DRP) system, which optimizes front to rear brake balance would become inoperative. If the driver were to ignore the red brake warning light, the higher rear-brake output could potentially decrease vehicle stability during braking that slides the rear wheels. This instability could result in a vehicle crash.

573.5(c)(6): General Motors was first notified of the condition by the supplier in August of 1999. General Motors and the supplier initiated an investigation to determine the extent of the condition and its effect on vehicle performance.

573.5(c)(8): This information will be set forth in the dealer bulletin.

573.5(c)(9): Draft copies of the owner notification and dealer bulletin are attached. General Motors plans to begin this campaign in April 2000. The final owner letter and dealer bulletin will be forwarded when they are available.

Sincerely,


 Frank C. Sorye, Jr.
 Director
 Product Investigations

1924 / 00013
 attachments

Product Investigations
 Mail Code: 480-108-304 • 3000 Mound Road • Warren, MI 48090-9055
 Phone: (810) 898-8029 • Fax: (810) 947-2318
 1224.DCC



573.5(c)(2),(3),(4)

VEHICLES POTENTIALLY AFFECTED BY MAKE, MODEL, AND MODEL YEAR
PLUS INCLUSIVE DATES OF MANUFACTURE

<u>MAKE</u>	<u>MODEL SERIES</u>	<u>MODEL YEAR</u>	<u>NUMBER INVOLVED</u>	<u>INCLUSIVE MANUFACTURING DATES (FROM) (TO)</u>		<u>DESCRIPTIVE INFO. TO PROPERLY IDENT. VEH.</u>	<u>EST. NO. W/CONDITION</u>
Chevrolet	T Trk	2000	6	8/99	8/99	S10	100%
Chevrolet	C/K Trk	2000	8,034	8/99	8/99	Silverado	100%
GMC	T Trk	2000	-3	8/99	8/99	Sonoma	100%
GMC	C/K Trk	2000	2,631	7/99	8/99	Sierra	100%
GM TOTAL:			10,674				

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00V-055 (2)



Campaign Bulletin

00V-055 (3)

"GM Confidential"

File in Section: Product Campaigns

Bulletin No.: B-05-99-06

Date: Month, 199#

Draft



PRODUCT SAFETY CAMPAIGN

SUBJECT: 990## - ABS EBC325 RETAINING CLIP

MODELS: 2000 CHEVROLET 2 & 4WD SILVERADO PICKUP TRUCKS, GMC 2 & 4WD SIERRA PICKUP TRUCKS, CHEVROLET 4WD EXTENDED-CAB S-10 PICKUP TRUCKS, AND GMC 4WD EXTENDED CAB SONOMA PICKUP TRUCKS

DRAFT
A FINAL VERSION OF THIS DRAFT WILL BE USED
IF THERE IS A DECISION TO CAMPAIGN

The Highway 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 customer has tendered it for repair. A failure to repair within sixty (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 customer 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 remedies, every effort must be made to promptly schedule an appointment with each customer and to repair their vehicle as soon as possible. As you will see in reading the attached copy of the divisional letter that is being sent to customers, the customers are being instructed to contact the appropriate Customer Assistance Center if their dealer does not remedy the condition within five (5) 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.

General Motors has decided that a defect which relates to motor vehicle safety exists in certain 2000 Chevrolet 2 and 4-wheel drive Silverado pickup trucks, GMC 2 and 4-wheel drive Sierra pickups, Chevrolet 4-wheel drive extended-cab S-10

pickup trucks, and GMC 4-wheel drive extended-cab Sonoma pickup trucks equipped with 4 wheel disc brakes. Some of these vehicles have Antilock Braking System (ABS) motors containing an out-of-specification spring clip. As the number of ABS stops accumulate, the out-of-specification spring clip could allow the motor bearing to become misaligned. If misalignment occurs, the noise during ABS activation caused by the ABS motor will become progressively louder, and retainer/bearing friction will increase resulting in higher motor-current draw. Eventually, this could render the ABS non-functional. When this occurs, both the amber ABS warning light and the red brake warning light will be illuminated. The base brakes would immediately be fully functional; however, the Dynamic Rear Proportioning (DRP), which provides the proportioning valve function that optimizes front to rear brake balance would become inoperative. If the driver were to ignore the red brake warning light, the higher rear-brake output could potentially decrease the vehicle stability during braking that slides the rear wheels. This instability could result in a vehicle crash.

To prevent the possibility of this condition occurring, dealers are to replace the brake pressure module valve assembly.

VEHICLES INVOLVED

Involved are certain 2000 Chevrolet 2 and 4-wheel drive Silverado pickup trucks, GMC 2 and 4-wheel drive Sierra pickups, Chevrolet 4-wheel drive extended-cab S-10 pickup trucks, and GMC 4-wheel drive extended-cab Sonoma pickup trucks equipped with 4 wheel disc brakes and built within the following VIN breakpoints:

YEAR	DIVISION	MODEL	PLANT	FROM	THROUGH
2000	GMC	T Pickup	Shreveport	Y8112662	Y8112744
2000	GMC	C/K Pickup	Oshawa	Y1100162	Y1127014
2000	GMC	C/K Pickup	Pontiac East	YE121791	YE138098
2000	GMC	C/K Pickup	Ft. Wayne	YZ123046	YZ136379
2000	Chevrolet	T Pickup	Shreveport	Y8112087	Y8112804
2000	Chevrolet	C/K Pickup	Oshawa	Y1101159	Y1127013
2000	Chevrolet	C/K Pickup	Pontiac East	YE117721	YE138018
2000	Chevrolet	C/K Pickup	Ft. Wayne	YZ115367	YZ138826

Important: Dealers should confirm vehicle eligibility through VISS (Vehicle Information Service System) prior to beginning campaign repairs. [Not all vehicles within the above breakpoints may be involved.]

Involved vehicles have been identified by Vehicle Identification Number. Computer listings containing the complete Vehicle Identification Number, customer name and address data have been prepared, and are being furnished to involved dealers with the campaign bulletin. The customer name and address data furnished will enable dealers to follow-up with customers involved in this campaign. Any dealer not receiving a computer listing with the campaign bulletin has no involved vehicles currently assigned.

These dealer listings may contain customer 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.

PARTS INFORMATION

Parts required to complete this campaign are to be obtained from General Motors Service Parts Operations (GMSPO). Please refer to your "Involved Vehicles Listing" prior to ordering parts. Normal orders should be placed on a DRO = Daily Replenishment Order. In an emergency situation, parts should be ordered on a CSO = Customer Special Order.

Part Number	Description	Quantity/ Vehicle
12475583	Brake Pressure Module Valve Asm (C/K)	1
12475645	Brake Pressure Module Valve Asm (S/T)	1
12377967	Delco Supreme II Brake Fluid	1 pint

CUSTOMER NOTIFICATION

Customers will be notified of this campaign on their vehicles by General Motors (see copy of typical customer letter included with this bulletin - actual divisional letter may vary slightly).

DEALER CAMPAIGN RESPONSIBILITY

All unsold new vehicles in dealers' possession and subject to this campaign must be held and inspected/repaired per the service procedure of this campaign bulletin before customers take possession of these vehicles.

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

Customers who have recently purchased vehicles sold from your vehicle inventory, and for which there is no customer information indicated on the dealer listing, are to be contacted by the dealer. Arrangements are to be made to make the required correction according to the instructions contained in this bulletin. This could be done by mailing to such customers a copy of the customer letter accompanying this bulletin. Campaign follow-up cards should not be used for this purpose, since the customer may not as yet have received the notification letter.

In summary, whenever a vehicle subject to this campaign enters your vehicle inventory, or is in your dealership for service in the future, please take the steps necessary to be sure the campaign correction has been made before selling or releasing the vehicle.

SERVICE PROCEDURE

1. Disconnect the negative battery cable.
Important: Thoroughly remove all loose dirt and/or contaminants from around the Electro-Hydraulic Control Unit (EHCU) to prevent contamination of disassembled ABS components.
2. Disconnect the two electrical harness connectors from the Electronic Brake Control Module (EBCM).
3. Disconnect and identify the location for assembly purposes, the five brake lines from the BPMV.
4. Remove the bolts securing the EHCU mounting bracket to the vehicle.
5. Remove the bolts securing the EHCU to its mounting bracket.
6. Disconnect the 2-way ABS pump motor electrical connector.
7. Remove and discard the T-25 Torx screws securing the EBCM to the BPMV.
Important: Do not use a tool to pry the EBCM or the BPMV. Excessive force will damage the units.
8. Remove the EBCM from the BPMV and discard the BPMV. Removal may require a light amount of force to separate the units.
9. Clean the EBCM to BPMV mounting surfaces with a clean cloth.
Important: Do not use RTV or any other type of sealant on the EBCM gasket or mating surfaces.
10. Install the BPCM onto the new BPMV and hand start the four new T-25 Torx screws.
11. Tighten the four T-25 Torx screws to 5 Nm (44 lb in) in an X-pattern.
12. Connect the 2-way ABS pump motor electrical connector to the EBCM.
13. Install the EHCU to its mounting bracket and hand start the bolts.
14. Tighten the EHCU to bracket bolts to 9 Nm (80 lb in).
15. Install the EHCU and bracket assembly into the vehicle.
Important: If the brake pipes are retained by a frame mounted plastic clip, ensure that the pipes are positioned in the clip properly.
16. Connect the five brake pipes to the BPMV and tighten the pipe fittings to 30 Nm (22 lb ft).
17. Connect the two electrical harness connectors to the EBCM.
18. Bleed the brake system.
19. Connect the negative battery cable.
20. Install the GM Campaign Identification Label.

CAMPAIGN IDENTIFICATION LABEL

Each vehicle corrected 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 campaign number and the five (5) digit dealer code of the dealer performing the campaign service. This information may be inserted with a typewriter or a ball point 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 by the customer for periodic servicing. When installing the Campaign Identification Label, be sure to pull the tab to allow adhesion of the clear protective covering. Additional Campaign Identification Labels can be obtained from Dealer Support Materials by calling 1-888-414-6322 (Monday-Friday, 8:00 a.m. to 5:00 p.m. EST). Ask for Item Number S-1015 when ordering.



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

CLAIM INFORMATION

Submit a Product Campaign Claim with the information indicated below:

REPAIR PERFORMED	PART CNT	P/N	PARTS ALLOW	CC-FC	LABOR OP	LABOR HOURS
Replace Brake Pressure Module Valve Assembly (Inc. Bleed Brake System)	1	---	**	MA-98	V0__	1.3

- * For Campaign Administrative Allowance, add 0.1 hours to the "Labor Hours".
- ** The "Parts Allowance" should be the sum total of the current GMSPD Dealer Net price plus the appropriate mark-up for the valve assembly and brake fluid needed to complete the repair.

Refer to the General Motors Corporation Claims Processing Manual for details on Product Campaign Claim Submission.



(Sample Of Notification Used)

<Month Of Mailing>, 199#

Dear Chevrolet/GMC Customer:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Reason For This Recall: General Motors has decided that a defect which relates to motor vehicle safety exists in 2000 Chevrolet 2 and 4-wheel drive Silverado pickup trucks, GMC 2 and 4-wheel drive Sierra pickup trucks, Chevrolet 4-wheel drive extended-cab S-10 pickup trucks, and GMC 4-wheel drive extended-cab Sonoma pickup trucks equipped with 4 wheel disc brakes. Some of these vehicles have Antilock Braking System (ABS) motors containing an out-of-specification spring clip. As the number of ABS stops accumulate, the out-of-specification spring clip could allow the motor bearing to become misaligned. If misalignment occurs, the noise during ABS activation caused by the ABS motor will become progressively louder, and retainer/bearing friction will increase resulting in higher motor-current draw. Eventually, this could render the ABS non-functional. When this occurs, both the amber ABS warning light and the red brake warning light will be illuminated. The base brakes would immediately be fully functional; however, the Dynamic Rear Proportioning (DRP), which provides the proportioning valve function that optimizes front to rear brake balance would become inoperative. If the driver were to ignore the red brake warning light, the higher rear-brake output could potentially decrease the vehicle stability during braking that slides the rear wheels. This instability could result in a vehicle crash.

What Will Be Done: To prevent the possibility of this condition occurring, your dealer will replace the brake pressure module valve assembly. This service will be performed for you at no charge.

How Long Will The Repair Take? The length of time required to perform this service correction is approximately 1 hour and 20 minutes. Additional time may be required to schedule and process your vehicle. If your dealer has a large number of vehicles awaiting service, this additional time may be significant. Please ask your dealer if you wish to know how much additional time will be needed to schedule, process and repair your vehicle.

Contacting Your Dealer: Please contact your Chevrolet/GMC dealer as soon as possible to arrange a service date. Parts are available and instructions for making this correction have been sent to your dealer. Your Chevrolet/GMC dealer is best equipped to obtain parts and provide services to correct your vehicle as promptly as possible. Should your dealer be unable to schedule a service date within a

reasonable time, you should contact the appropriate Customer Assistance Center at the listed number below:

Division	Number	Deaf, Hearing Impaired or Speech Impaired *
Chevrolet	1-800-222-1020	1-800-833-2438
GMC	1-800-462-8782	1-800-462-8583

* Utilizes Telecommunication Devices for the Deaf/Text Telephones (TDD/TTY)

If, after contacting the appropriate Customer Assistance Center, you are still not satisfied that we have done our best to remedy this condition without charge and within a reasonable time, you may wish to write the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street SW, Washington, DC 20590 or call 1-800-424-9393 (Washington, DC residents use 202-366-0123).

Customer Reply Card: The attached customer reply card identifies your vehicle. Presentation of this card to your dealer will assist in making the necessary correction in the shortest possible time. If you no longer own this vehicle, please let us know by completing the postage paid reply card and returning it to us.

We are sorry to cause you this inconvenience; however, we have taken this action in the interest of your safety and continued satisfaction with our products.

Chevrolet/Pontiac-GMC Division
General Motors Corporation