

(SUGGESTED DEALER LETTER)

General Motors has decided that a defect which relates to motor vehicle safety exists in certain 1999-2000 Chevrolet Silverado and GMC Sierra pickup trucks; and 2000 Chevrolet Tahoe and Suburbans, and GMC Yukon and Yukon XL vehicles. Some of these vehicles have a clearance condition between the front right-hand brake pipe and the body cross sill that may decrease to the point of allowing contact during the life of the vehicle. If contact occurs and the brake pipe becomes damaged, in half of the brake system there can be a loss of brake fluid and pressure. The brake warning lamp will be activated when the brake fluid level reaches the indicator limit. During braking, the pedal will be lower than normal and stopping distances will be longer. If this occurs when stopping distance is limited, a crash could occur.

We will inspect the front right-hand brake pipe and ensure sufficient clearance between the brake pipe and the body cross sill. During this inspection if the brake pipe shows signs of wear, we will replace this section of brake pipe. This service will be performed for you at no charge.

Please contact us as soon as possible to arrange a service date.

We sincerely regret any inconvenience this causes you; however, we have taken this action in the interest of your continued satisfaction with our products.

GMODC
General Motors Corporation

00093A

/11



File In Section: Product Campaigns
Bulletin No.: 00093A
Date: February, 2001

Campaign Bulletin

00V-345

RECEIVED
FEB 21 PM 3:15
OFFICE INVESTIGATION



PRODUCT SAFETY CAMPAIGN

SUBJECT: 00093A – FRONT BRAKE PIPE CONTACT WITH BODY CROSS SILL

MODELS: 1999-2000 CHEVROLET SILVERADO; AND GMC SIERRA
2000 CHEVROLET TAHOE AND SUBURBAN, AND GMC YUKON AND YUKON XL

DUE TO THE AVAILABILITY OF PARTS, THIS CAMPAIGN IS BEING ADMINISTERED IN TWO PHASES. THE FIRST PHASE CONSISTED OF 3/4 TON VEHICLES. THIS SECOND AND FINAL PHASE CONSISTS OF 1/2 TON VEHICLES. ENCLOSED IS THE DEALER LISTING FOR INVOLVED VEHICLES IN THIS SECOND PHASE. THIS REVISED CAMPAIGN BULLETIN INCLUDES INFORMATION TO SERVICE THE 1/2 TON VEHICLES. DISCARD CAMPAIGN BULLETIN 00093, DATED JANUARY, 2001.

CONDITION

General Motors has decided that a defect which relates to motor vehicle safety exists in certain 1999-2000 Chevrolet Silverado and GMC Sierra pickup trucks; and 2000 Chevrolet Tahoe and Suburbans, and GMC Yukon and Yukon XL vehicles. Some of these vehicles have a clearance condition between the front right-hand brake pipe and the body cross sill that may decrease to the point of allowing contact during the life of the vehicle. If contact occurs and the brake pipe becomes damaged, in half of the brake system there can be a loss of brake fluid and pressure. The brake warning lamp will be activated when the brake fluid level reaches the indicator limit. During braking, the pedal will be lower than normal and stopping distances will be longer. If this occurs when stopping distance is limited, a crash could occur.

CORRECTION

Dealers are to inspect the front right-hand brake pipe for wear. If there are signs of wear, dealers are to replace this section of brake pipe with a new brake pipe section. If there are no signs of wear on the brake pipe, dealers are to install a spacer clip on 3/4 ton vehicles to ensure sufficient clearance between the brake pipe and the body cross sill. All 1/2 ton vehicles will have a bracket installed to ensure sufficient clearance between the brake pipe and the body cross sill.

VEHICLES INVOLVED

Involved are certain 1999-2000 Chevrolet Silverado and GMC Sierra pickup trucks, and 2000 Chevrolet Tahoe and Suburbans, and GMC Yukon and Yukon XL vehicles built within these VIN breakpoints:

YEAR	DIVISION	MODEL	PLANT	FROM	THROUGH
1999	GMC	1500	Oshawa	X1500001	X1571405
1999	GMC	1500	Pontiac East	XE500001	XE851659
1999	GMC	1500	Ft. Wayne	XZ500001	XZ540998
2000	GMC	1500	Oshawa	Y1100003	Y1384256
2000	GMC	1500	Pontiac East	YE100014	YE388894
2000	GMC	1500	Ft. Wayne	YZ100002	YZ344205
2000	GMC	1500	Janesville	YJ100002	YJ181581
2000	GMC	1500	Silao	YG100003	YG205260
1999	GMC	2500	Pontiac East	XE500005	XE555871
1999	GMC	2500	Ft. Wayne	XZ503455	XZ540927
2000	GMC	2500	Pontiac East	YE100001	YE225535
2000	GMC	2500	Ft. Wayne	YZ100158	YZ194084
1999	Chevrolet	1500	Oshawa	X1100001	X1299265
1999	Chevrolet	1500	Pontiac East	XE100002	XE256732
1999	Chevrolet	1500	Ft. Wayne	XZ100001	XZ214624
2000	Chevrolet	1500	Oshawa	Y1100002	Y1384257
2000	Chevrolet	1500	Pontiac East	YE100002	YE388905
2000	Chevrolet	1500	Ft. Wayne	YZ100001	YZ344202
2000	Chevrolet	1500	Janesville	YJ100001	YJ181588
2000	Chevrolet	1500	Silao	YG100004	YG205271
1999	Chevrolet	2500	Pontiac East	XE100001	XE256729
1999	Chevrolet	2500	Ft. Wayne	XZ102058	XZ214601
2000	Chevrolet	2500	Pontiac East	YE100004	YE225562
2000	Chevrolet	2500	Ft. Wayne	YZ100159	YZ194112

IMPORTANT: Dealers should confirm vehicle eligibility through **GMVIS** (GM Vehicle Inquiry System) or **GM Access Screen** (Canada only) or **DCS Screen 445** (IPC only) before 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 Motor Vehicle Registration Records. The use of such motor vehicle registration data for any other purpose is a violation of law in several states/provinces/countries. 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" before 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.

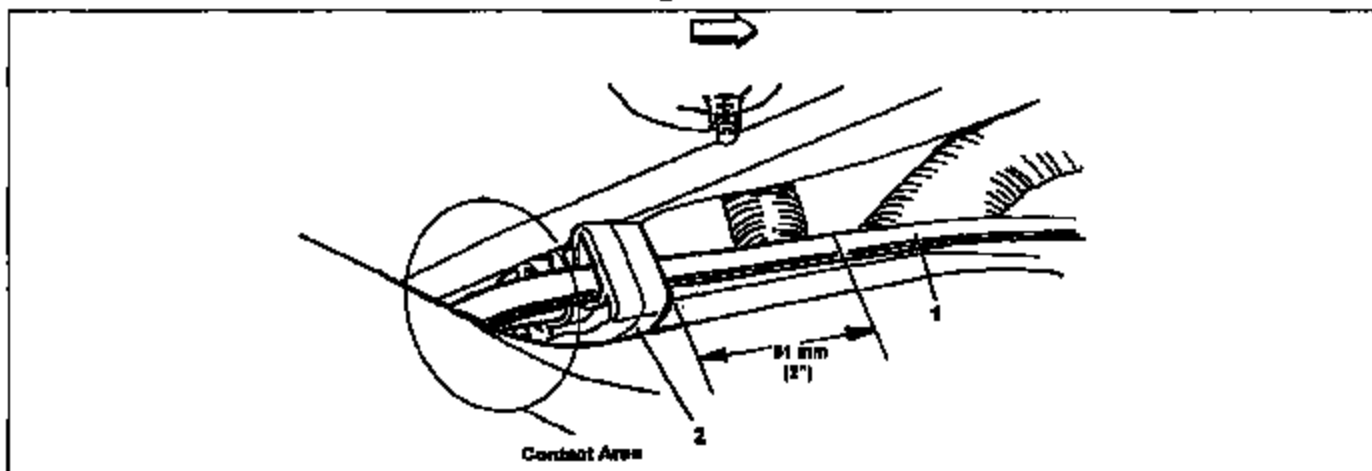
1500 Series		
Part Number	Description	Quantity/Vehicle
15070819	Bracket, Frt Brk C/Ovr Pipe Clip	1
11516569	Bolt, Hex Hd W/Fiat Wa	1
12337820	Strap, Adj Tie (4WD Only)	2
15070818	Pipe, Asm Frt Brk Frt - (2WD Pickup)	1 - (If Req'd)
15070816	Pipe, Asm Frt Brk Frt - (4WD Pickup)	1 - (If Req'd)
15070817	Pipe, Asm Frt Brk Frt - (Utility)	1 - (If Req'd)
*15724652	Nut	2 - (If Pipe Replaced)
*15758797	Fitting	1 - (If Pipe Replaced)
*12377967	Fluid, Hyd Brk	0.5 Litre/1 Pint - (If Pipe Replaced)

2500 Series		
Part Number	Description	Quantity/Vehicle
15054936	Clip, Front Brake Pipe (2500 Series)	1 - (If No Pipe Wear)
15064301	Pipe Asm, Frt Brk Frt (2500 Series)	1 - (If Req'd)
*15724652	Nut	2 - (If Pipe Replaced)
*15758797	Fitting	1 - (If Pipe Replaced)
*12377967	Fluid, Hyd Brk	0.5 Litre/1 Pint - (If Pipe Replaced)

* Part used for both 1500 and 2500 Series vehicles

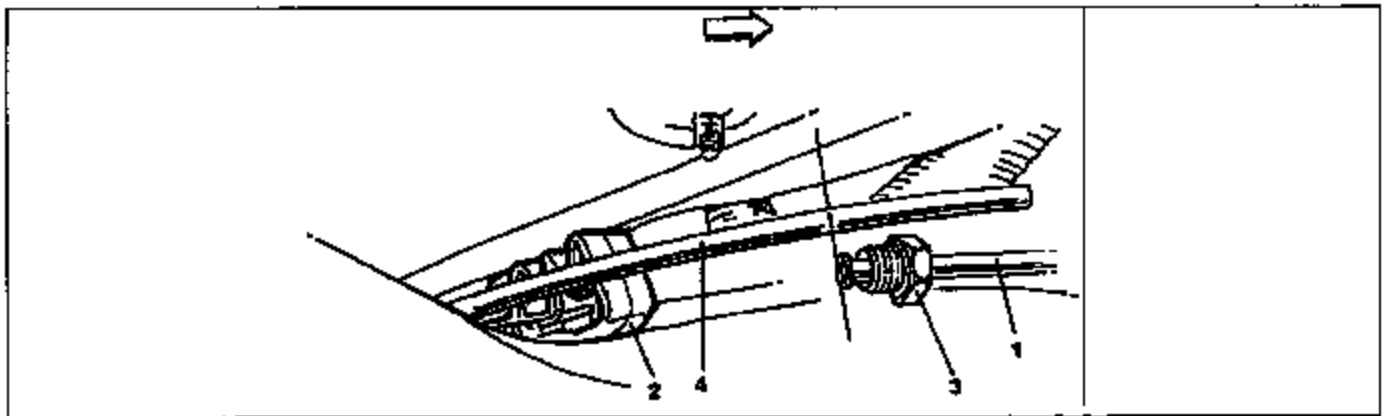
SERVICE PROCEDURE**1500 Series (1/2 Ton) Vehicles**

1. Raise and support the vehicle.

Figure 1

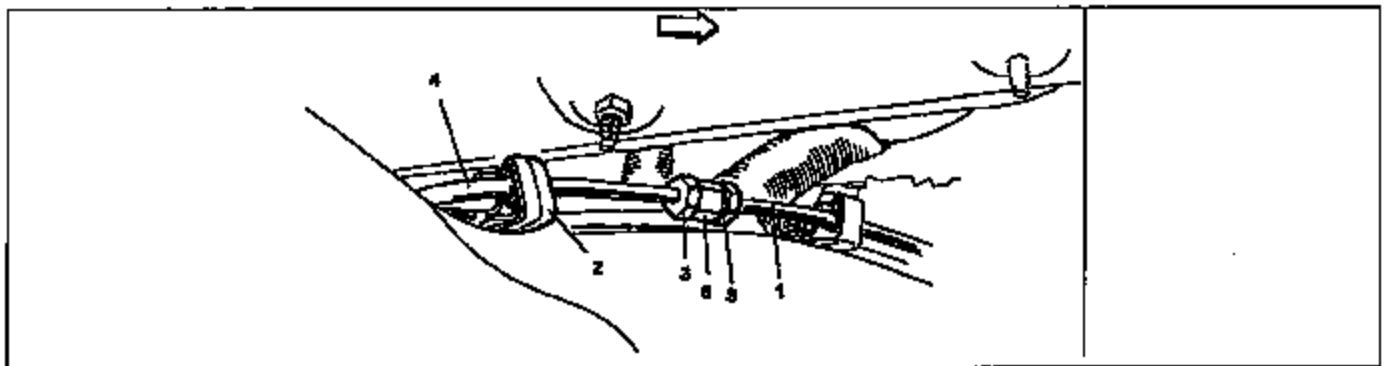
2. Locate the area just rearward of the driver side front-wheel-well opening, where the brake pipes leading from the Brake Pressure Modulator Valve (BPMV) crossover from the outboard to the inboard side of the frame rail, Figure 1.
3. Inspect the brake pipe (1) that leads to the right front brake caliper for any indication that it has been contacted by the body in the area where it is routed over the frame rail.
4. Based on the results of the inspection performed in Step 3, proceed as indicated below.
 - **No** brake pipe to body contact - Proceed to Step 19 and install a new additional brake pipe bracket.
 - Brake pipe **contacted** by body - Proceed to Step 5 and replace the brake pipe section, and then install a new additional brake pipe bracket.
5. Measure and mark a point on the brake pipe (1) that is 50 mm (2 in) forward of the brake pipe clip (2), as shown in Figure 1.
6. Disconnect the brake pipe (1) leading to the right front brake caliper at the BPMV.
7. Unclip the disconnected brake pipe (1) from the brake clips located forward of the BPMV.
8. Position the brake pipe away from the frame rail and cut/deburr the pipe at the point located in Step 5.
9. Remove and discard the rear section of the brake pipe (1).

Figure 2



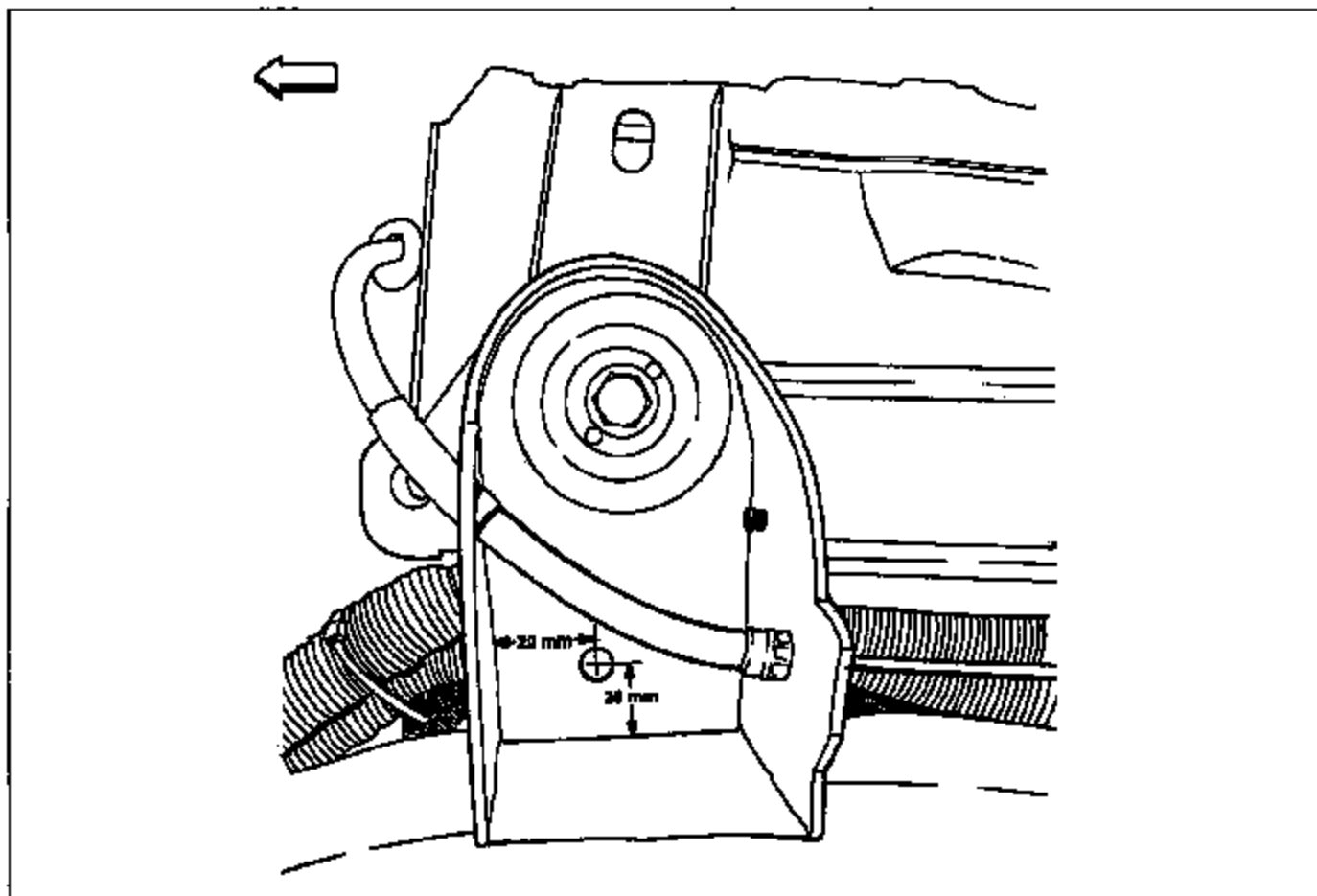
10. Install the new brake fitting (3) onto the portion of the brake pipe (1) remaining in the vehicle, and double flare the end of the pipe, (Figure 2).
11. Position the new brake pipe (4) in the vehicle and mark it at the point where it is in alignment with the end of the flare on the existing brake pipe (1) as shown in Figure 2.
12. Remove the new brake pipe (4) and cut/deburr it at the point determined in the previous step.
13. Install the new brake pipe fitting (3) onto the brake pipe (4), and double flare the end of the pipe.

Figure 3



14. Install the new brake pipe (4) in the vehicle and connect it to the existing pipe (1) by hand-starting the union (5) to the fittings (3), as shown in Figure 3.
15. Hand-start the fitting on the opposite end of the new brake pipe (4) to the BPMV.
16. Install the brake pipes (1 & 4) into the brake pipe clips to ensure that the pipes are positioned correctly.
17. Tighten the brake pipe fittings (3) and the fitting at the BPMV to 30 Nm (22 lb ft) using a back-up wrench on the union (5) when tightening the fittings (3).
18. Bleed the brake system. Refer to "Automated Bleed Procedure" in the applicable Service Manual.

Figure 4



19. On the body-mount-frame bracket, located just rearward of the left (driver's side) front wheel well opening, locate and mark a point on the bracket's lower surface, as shown in Figure 4.

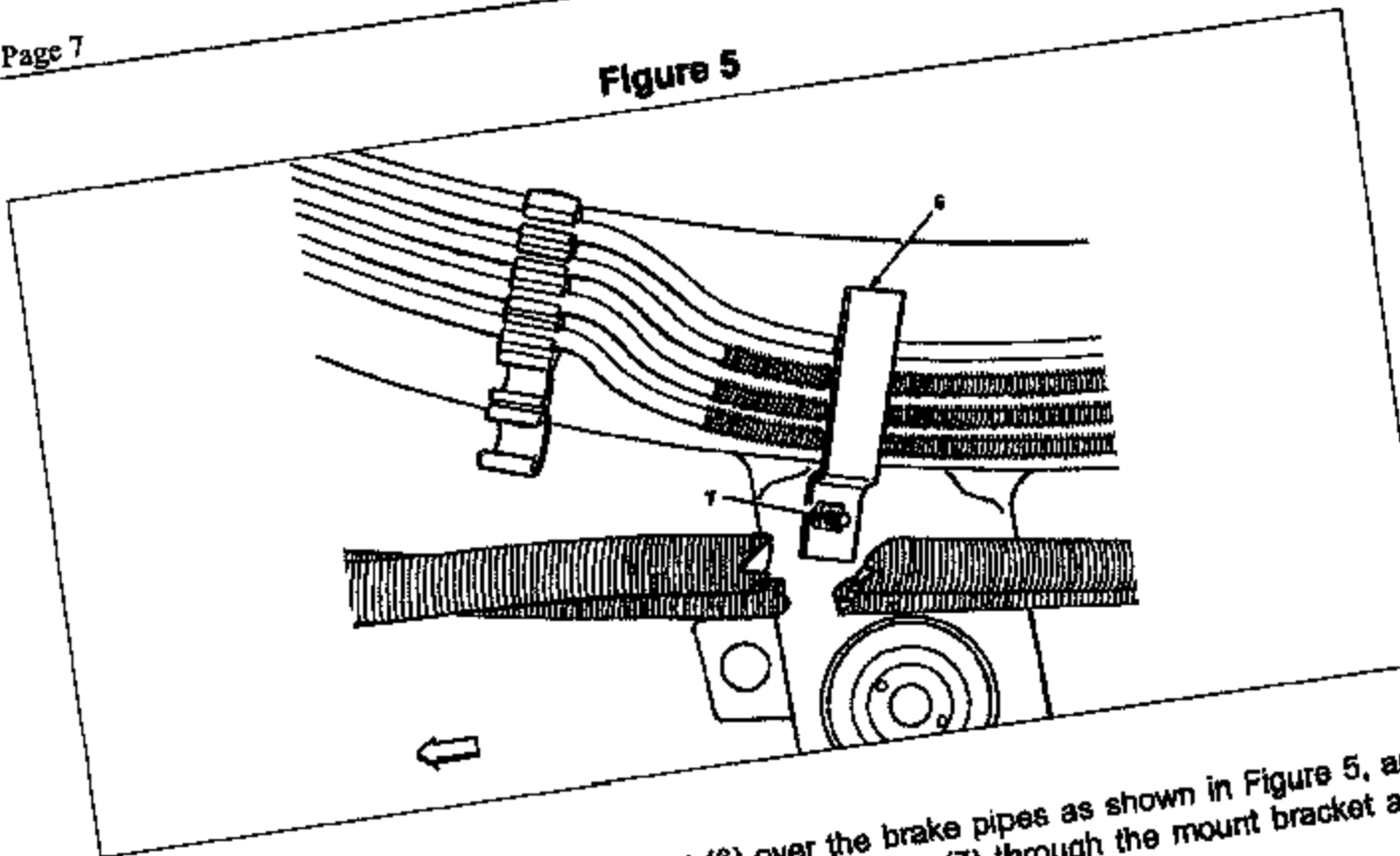
Note: To protect the brake pipes and the wiring harnesses during drilling operations, insert a thin piece of sheet metal between the mount bracket and the brake pipes.

20. Being careful not to damage or displace the brake pipes, drill an 8 mm hole through the mount bracket at the point located in the previous step.

February, 2001

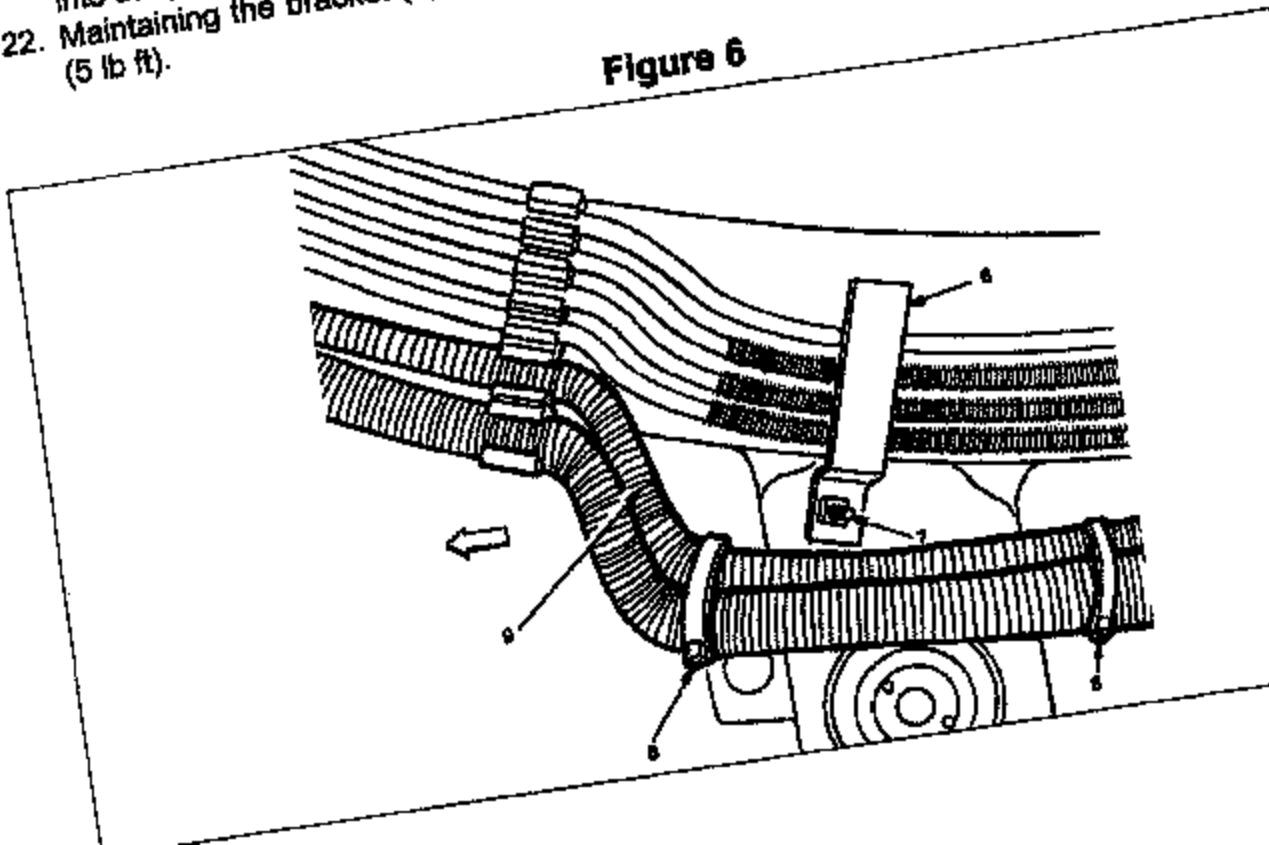
Page 7

Figure 5



21. Position the new brake pipe bracket (6) over the brake pipes as shown in Figure 5, and hand start the new brake pipe bracket retaining bolt (7) through the mount bracket and into the pipe bracket (6).
22. Maintaining the bracket (6) in the position shown in Figure 5, tighten the bolt (7) to 7 ft-lb (5 lb ft).

Figure 6

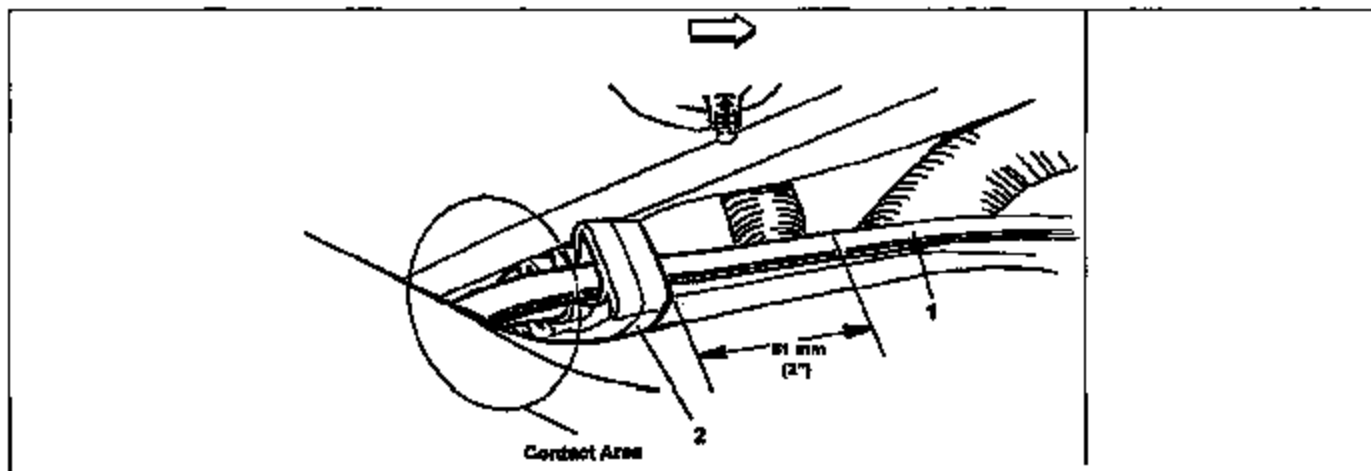


23. Secure the 4X4 harness to the chassis harness (9) with tie straps (8), P/N 12337820, fore and aft of the frame body mount bracket as shown in Figure 6. If the truck is 2WD, tie straps are not required.
24. Inspect the wiring harness routing to ensure that there is no contact between the harness and the new brake pipe bracket retaining bolt.
25. Lower vehicle.
26. Install the GM Campaign Identification Label.

2500 Series (3/4 Ton) Vehicles

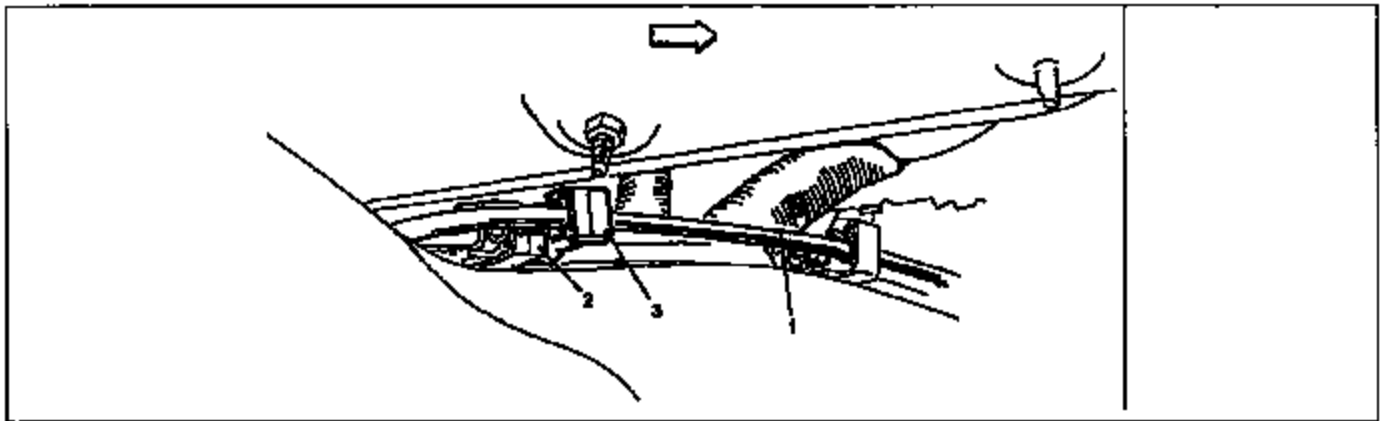
1. Raise and support the vehicle.

Figure 1



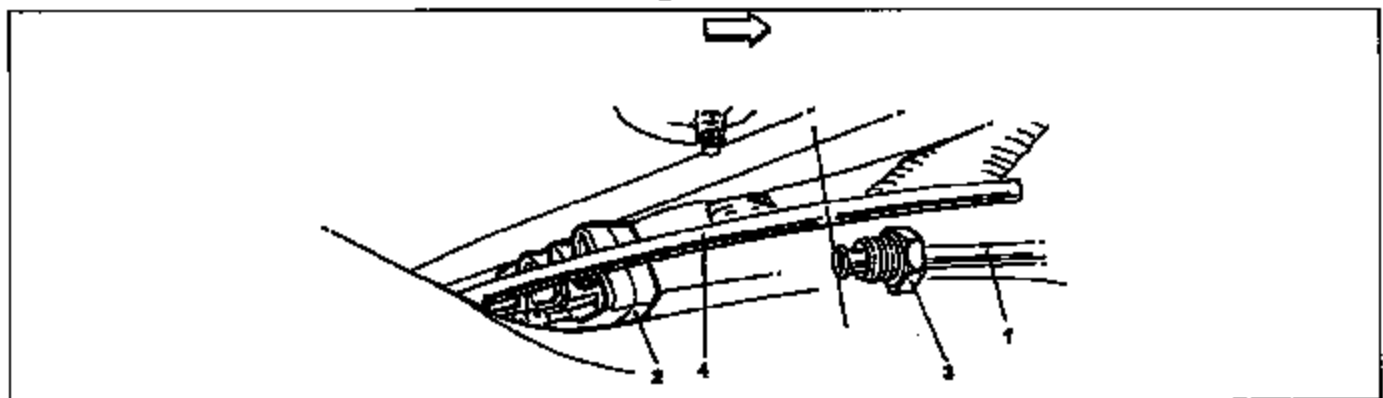
2. Locate the area just rearward of the driver side front wheel well opening, where the brake pipes leading from the brake pressure modulator valve (BPMV) cross over from the outboard to the inboard side of the frame rail (Figure 1).
3. Inspect the brake pipe (1) that leads to the right front brake caliper for any indication that it has been contacted by the body in the area where it is routed over the frame rail.
4. Based on the results of the inspection performed in Step 3, proceed as indicated below:
 - **No brake pipe to body contact** – Proceed to Step 5 and install new additional brake pipe clip.
 - **Brake pipe contacted by body** – Proceed to Step 8 and replace the brake pipe section.

Figure 2



5. Cut off the most inboard retaining feature of the brake pipe bundle clip (2) as shown in Figure 2.
6. Position the new brake pipe bundle clip (3) directly forward of the existing brake clip (2) and install the clip over the three pipes that are routed outboard of the brake pipe (1) as shown in Figure 2.
7. Insert the brake pipe (1) into the inboard retaining feature of the new brake clip (3) and snap the clip closed. Proceed to Step 22.
8. Measure and mark a point on the brake pipe (1) that is 50 mm (2 in) forward of the brake pipe clip (2) as shown in Figure 1.
9. Disconnect the brake pipe (1) leading to the right front brake caliper at the BPMV.
10. Unclip the disconnected brake pipe (1) from the seven brake clips located forward of the BPMV.
11. Position the pipe away from the frame rail and cut/deburr the pipe at the point located in Step 8.
12. Remove and discard the rear section of the brake pipe (1).

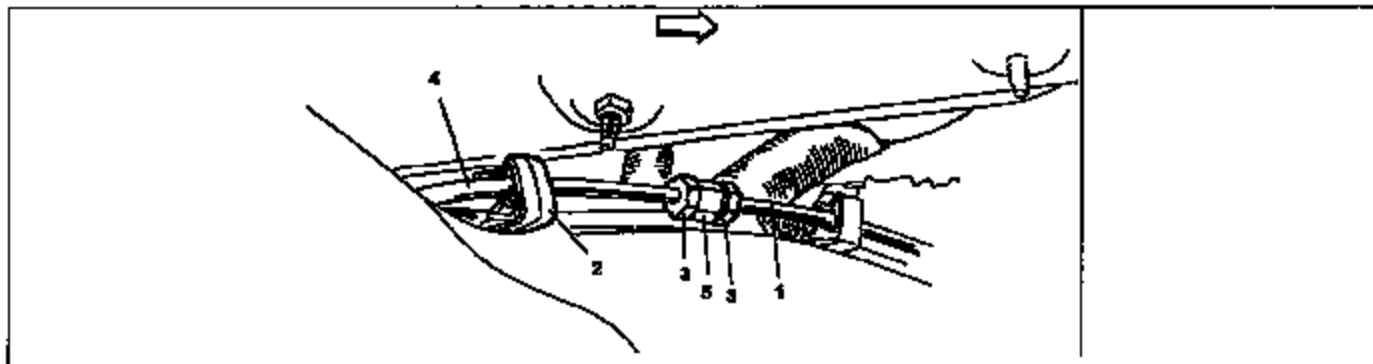
Figure 3



13. Install the new brake fitting (3) onto the portion of the brake pipe (1) remaining in the vehicle and double flare the end of the pipe as shown in Figure 3.
14. Position the new brake pipe (4) in the vehicle and mark it at the point where it is in alignment with the end of the flare on the existing brake pipe (1) as shown in Figure 3.

15. Remove the new brake pipe (4) and cut/deburr it at the point determined in previous step.
16. Install the new brake pipe fitting (3) onto the brake pipe (4) and double flare the end of the pipe.

Figure 4



17. Install the new brake pipe (4) in the vehicle and connect it to the existing pipe (1) by hand starting the union (5) to the fittings (3) as shown in Figure 4.
18. Hand start the fitting on the opposite end of the new brake pipe (4) to the BPMV.
19. Install the brake pipes (1 & 4) into the seven brake pipe clips to ensure that the pipes are positioned correctly.
20. Tighten the brake pipe fittings (3) and the fitting at the BPMV to 30 Nm (22 lb ft) using a backup wrench on the union (5) when tightening fittings (3).
21. Bleed the brake system. Refer to the "Automated Bleed Procedure" in the applicable Service Manual.
22. Lower the vehicle.
23. Install the GM Campaign Identification Label.

CAMPAIGN IDENTIFICATION LABEL – For US and IPC

Place a Campaign Identification Label on each vehicle corrected in accordance with the instructions outlined in this Product Campaign Bulletin. 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.

Put the Campaign Identification Label on a clean and dry surface of the radiator core support in an area that will be visible to people servicing the vehicle. **When installing the Campaign Identification Label, be sure to pull the tab to allow adhesion of the clear protective covering.** Additional Campaign Identification Labels for US dealers can be obtained from Dealer Support Materials by calling 1-888-549-6152 (Monday-Friday, 8:00 a.m. to 5:00 p.m. EST). Ask for Item Number S-1015 when ordering.

Additional Campaign Identification Labels for IPC dealers can be obtained from your Regional Marketing Office



CAMPAIGN IDENTIFICATION LABEL – For CANADA

Place a Campaign Identification Label on each vehicle corrected in accordance with the instructions outlined in this Product Campaign Bulletin. 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.

Put the Campaign Identification Label on a clean and dry surface of the radiator core support in an area that will be visible to people servicing the vehicle. **Additional Campaign Identification Labels for Canadian dealers can be obtained from DGN by calling 1-800-668-5539 (Monday-Friday, 8:00 a.m. to 5:00 p.m. EST). Ask for Item Number GMP 91 when ordering.**

**CLAIM INFORMATION**

Submit a Product Campaign Claim with the information indicated below:

REPAIR PERFORMED	PART COUNT	PART NO.	PARTS ALLOW	CC-FC	LAB OP	MODEL	* LAB HRS
Inspect Brake Pipe and Install Spacer Clip/Bracket - (No Brake Pipe Wear)	1	---	**	MA-96	V0809	1500	0.3
						2500	0.2
Inspect and Repair Brake Pipe (Inc. Bracket Installation on 1500)	1	--	**	MA-96	V0810	1500	1.1
						2500	1.0

* 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 applicable Mark-Up or Landed Cost Mark-Up (for IPC) for the parts needed to complete the repair.

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

CUSTOMER NOTIFICATION – For US and CANADA

Customers will be notified of this campaign on their vehicles by General Motors (see copy of customer letter included with this bulletin).

CUSTOMER NOTIFICATION – For IPC

Letters will be sent to known owners of record located within areas covered by the US National Traffic and Motor Vehicle Safety Act. For owners outside these areas, dealers should notify customers using the attached suggested dealer letter.

DEALER CAMPAIGN RESPONSIBILITY – For US and IPC (US States, Territories, and Possessions)

The US National Traffic and Motor Vehicle Safety Act provides that each vehicle that 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 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. In the recall campaign notification letters, customers are told how to contact the US National Highway Traffic Safety Administration if the campaign is not completed within a reasonable time.

DEALER CAMPAIGN RESPONSIBILITY - ALL

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, you must take the steps necessary to be sure the campaign correction has been made before selling or releasing the vehicle.

GM 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 tools, equipment, 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 dealer/retailer for information on whether your vehicle may benefit from the information.



We Support
Voluntary Technician
Certification

00093

(Sample Of Notification Used)

Dear General Motors 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 certain 1999-2000 Chevrolet Silverado and GMC Sierra pickup trucks; and 2000 Chevrolet Tahoe and Suburbans, and GMC Yukon and Yukon XL vehicles. Some of these vehicles have a clearance condition between the front right-hand brake pipe and the body cross sill that may decrease to the point of allowing contact during the life of the vehicle. If contact occurs and the brake pipe becomes damaged, in half of the brake system there can be a loss of brake fluid and pressure. The brake warning lamp will be activated when the brake fluid level reaches the indicator limit. During braking, the pedal will be lower than normal and stopping distances will be longer. If this occurs when stopping distance is limited, a crash could occur.

What Will Be Done: Your dealer will inspect the front right-hand brake pipe and ensure sufficient clearance between the brake pipe and the body cross sill. During this inspection if the brake pipe shows signs of wear, your dealer will replace this section of brake pipe. 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 procedure is approximately twenty minutes. If the brake pipe should require replacement, another 50 minutes will be required. 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 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 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
GMODC	(905) 644-4112	
Puerto Rico - English	1-800-496-9992	
Puerto Rico - Español	1-800-496-9993	
Virgin Islands	1-800-496-9994	

* 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 1-888-327-4236.

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 attached and mailing it in the postage paid envelope.

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.

General Motors Corporation

Enclosure