

**Engine Control Module: All Technical Service Bulletins****Recall - Corrosion/Moisture Entering the PCM**

Product Emission 99090 - PCM Corrosion/Moisture Intrusion #99090

99090--PCM Corrosion/Moisture Intrusion (Install Protective PCM Shield/Cover Assembly)

Certain 1997, 1998 and 1999 Chevrolet Cavaliers and Pontiac Sunfires Located in Fifteen U.S. High Road Salt Corrosion States (CT, IL, IN, MA, ME, MN, NH, NJ, NY, OH, PA, RI, VT, and WI) and in Ontario, Quebec and Atlantic Provinces, and Certain 1995, 1996, 1997, 1998 and 1999 Chevrolet Cavaliers and Pontiac Sunfires located in Manitoba, Saskatchewan, Alberta, British Columbia, the Yukon and Northwest Territories.

**Condition**

General Motors has decided to conduct a Voluntary Emission Campaign involving certain 1997, 1998 and 1999 Chevrolet Cavalier and Pontiac Sunfire model vehicles located in fifteen U.S. high salt corrosion states and in Ontario, Quebec and Atlantic provinces; and certain 1995, 1996, 1997, 1998, and 1999 Chevrolet Cavalier and Pontiac Sunfire model vehicles located Manitoba, Saskatchewan, Alberta, British Columbia, the Yukon and Northwest Territories. These vehicles have the potential to experience moisture entering the Powertrain Control Module (PCM), as a result of corrosion after extended exposure to road salt, Moisture entering the PCM can lead to symptoms including illumination of the Check Engine light or the engine running rough. If these symptoms are ignored, the engine may stall and may not be able to be restarted.

**Correction**

Dealers are to seal the Powertrain Control Module (PCM) in a protective shield/cover assembly.

Year	Division	Model	Plant	From	Through
1995	Chevrolet	Calvalier	Ramos	SS800044	SS887817
1995	Chevrolet	Calvalier	Lordstown	S7100376	S7105101
1995	Chevrolet	Calvalier	Genasys	SB100072	SB100899
1995	Pontiac	Sunfire	Ramos	SS800124	SS887880
1995	Pontiac	Sunfire	Lordstown	S7500359	S7500865

1995	Pontiac	Sunfire	Genasys	SB00064	SB200304
1996	Chevrolet	Cavalier	Ramos	TS800021	TS912845
1996	Chevrolet	Cavalier	Lordstown	T7119960	T7298583
1996	Chevrolet	Cavalier	Genasys	TB100226	TB107274
1996	Pontiac	Sunfire	Ramos	TS800034	TS912797
1996	Pontiac	Sunfire	Lordstown	T7506489	T7586752
1996	Pontiac	Sunfire	Genasys	TB200102	TB205592
1997	Chevrolet	Cavalier	Ramos	VS800001	VS882360
1997	Chevrolet	Cavalier	Lordstown	VM100002	V7344843
1997	Chevrolet	Cavalier	Lansing	VB100002	VM168269
1997	Chevrolet	Cavalier	Genasys	VB100002	VB109222
1997	Pontiac	Sunfire	Ramos	VS800002	VS882353
1997	Pontiac	Sunfire	Lordstown	V7500001	V7614924
1997	Pontiac	Sunfire	Genasys	VB200001	VB207927
1998	Chevrolet	Cavalier	Ramos	WS800002	WS872028
1998	Chevrolet	Cavalier	Lordstown	W7100006	W7338853
1998	Chevrolet	Cavalier	Lansing	WM100011	WM125954
1998	Chevrolet	Cavalier	Genasys	WB900003	WB907093
1998	Pontiac	Sunfire	Ramos	WS800001	WS71999
1998	Pontiac	Sunfire	Lordstown	W7500002	W7603242
1998	Pontiac	Sunfire	Genasys	WB200002	WB206759
1999	Chevrolet	Cavalier	Ramos	XS800006	XS836737
1999	Chevrolet	Cavalier	Lordstown	X7100004	X7230758
1999	Chevrolet	Cavalier	Genasys	XB900002	XB904347
1999	Pontiac	Sunfire	Ramos	XS800005	XS836765
1999	Pontiac	Sunfire	Lordstown	X7500004	X7548778
1999	Pontiac	Sunfire	Genasys	XB200005	XB203205

### Vehicles Involved

Involved are certain 1997, 1998 and 1999 Chevrolet Cavalier and Pontiac Sunfire model vehicles located in fifteen U.S. high salt corrosion states and in Ontario, Quebec and Atlantic provinces; and certain 1995, 1996, 1997, 1998, and 1999 Chevrolet Cavalier and Pontiac Sunfire model vehicles located Manitoba, Saskatchewan, Alberta, British Columbia, the Yukon and Northwest Territories built within the following VIN breakpoints:

### Important

Dealers should confirm vehicle eligibility through GMVIS (GM Vehicle Inquiry System) of GM Access Screen (Canada only) 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 listing 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 dealers listing 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

### Important

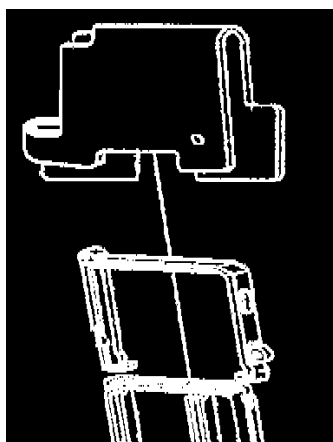
An initial supply of covers and shields required to complete this campaign will be pre-shipped to involved dealers of record. This pre-shipment will occur the week of May 8, 2000. Pre-shipped parts will be charged to dealer's open parts account.

Part Number	Description	Qty/Vehicle
22623903	Cover, PCM	1
22623904	Shield, PCM	1
10121502	Retainer, PCM (push-in) (20/pkg)	1
22581725	Clip, Fuel Evap Tube	1 if required
12040984	Clip, Horn Wiring Harness (10/pkg)	1 if required

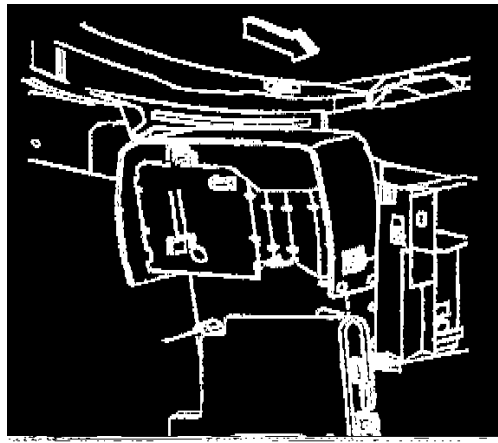
Parts required to complete this campaign are to be obtained from General Motors Service Parts Operations (GMSPO). Please refer to you "involved vehicles listing" prior to ordering requirements Normal orders should be placed on a DRO = Daily Replenishment Order. An emergency requirement should be ordered on a CSO = Customer Special Order.

### Service Procedure

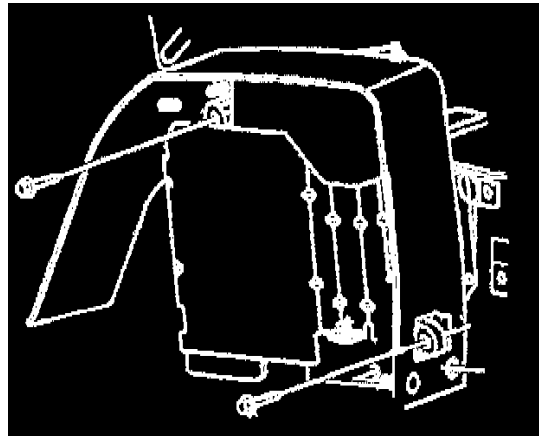
1. Disconnect the negative battery cable.
2. Remove the right-hand engine splash shield (in front of the right front tire assembly)
3. Remove the horn attachment bolt. Disconnect the wire and remove the horn.



4. Remove the PCM retainer attachment bolts (2). Slide the PCM and the retainer from the PCM and the retainer from the PCM bracket.



5. Install the PCM cover, P/N 22623903, over the PCM with the "F" facing outward.
6. Install the PCM into the vehicle bracket.



7. Install the PCM shield assembly, P/N 22623904, to the vehicle. Drape the shield over the PCM bracket. Removing the evap hose clip fastener and reinstall through the shield. Push the square cut over the PCM attachment nut. Remove the horn wiring attachment clip and reinstall through the shield.
8. Install the push-in retainer, P/N 10121502, through the lower front hole of the PCM shield and then through the side hold of the PCM cover.
9. Install the Campaign Identification Label.

#### Campaign Identification Label

##### For US

Place the 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 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 Labels for US dealers can be obtained from Dealer Support Materials by calling 1-888-549-6152 (Monday-Friday, 8:00 am to 5:00 pm EST). Ask for Item Number S-1015 when ordering.

#### Campaign Identification Label

##### For CANADA

Place the 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 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 am to 5:00 pm EST). Ask for Item Number GMP 91 when ordering.

#### Claim Information

Repair Performed	Part Count	Part No.	Parts Allow	CC-FC	Labor OP	Labor Hours*
Install cover, shield and retainer pin	---	---	**	MA-96	V0442	0.9 hr*
*_ For Campaign Administrative Allowance, add 0.1 hours to the "Labor Hours". **-- The "Parts Allowance" should be the sum total of the current GMSPO Dealer Net price plus applicable Mark-Up for parts needed to complete the repair.						

Submit a Product Campaign Claim with the information indicated.

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

#### 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.

In order to ensure full protection under the emission warranty, and the right to participate in future recalls, the customer notification letter recommends that customers have their vehicles serviced as soon as possible. It also advises that failure to do so could legally be determined to be lack of proper maintenance. The vehicle may fail a state or local emission inspection test if the recall work is not completed.

#### Dealer Campaign Responsibility

For US and CANADA

All unsold new vehicles in dealers' possession and subject to this campaign MUST be held and inspected/repared 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 owner, 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 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.

May, 2000

Dear Customer:

This notice is sent to inform you that General Motors is conducting a voluntary emission recall campaign that includes your vehicle.

#### Reason For This Recall

General Motors has decided that certain 1997, 1998 and 1999 Chevrolet Cavalier and Pontiac Sunfire model vehicles located in fifteen U.S. high salt corrosion states and in Ontario, Quebec and Atlantic provinces; and certain 1995, 1996, 1997, 1998, and 1999 Chevrolet Cavalier and Pontiac Sunfire model vehicles located Manitoba, Saskatchewan, Alberta, British Columbia, the Yukon and Northwest Territories. These vehicles have the potential to experience moisture entering the Powertrain Control Module (PCM), as a result of corrosion after extended exposure to road salt. Moisture entering the PCM can lead to symptoms including illumination of the Check Engine light or the engine running rough. If these symptoms are ignored, the engine may stall and may not be able to be restarted.

#### What Will Be Done

To prevent this condition from occurring, your GM dealer will seal the Powertrain Control Module (PCM) in a protective shield/cover assembly. This service will be performed for you at no charge.

#### Contacting Your Dealer

Please contact your dealer as soon as possible to arrange a service date and to assure parts availability. Instructions for making this correction have been sent to your dealer. Please ask your dealer if you wish to know how much time will be needed to schedule, process and repair your vehicle.

Division	Number	Deaf, Hearing Impaired, or Speech Impaired*
Chevrolet	1-800-222-1020	1-800-833-2438
Pontiac	1-800-762-2737	1-800-833-7668

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

Should your dealer be unable to schedule a service date within a reasonable time, you should contact the appropriate Customer Assistance/Relations Center at the number listed.

#### Customer Replay 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 reply card and returning it to us in the postage paid envelope.

#### Courtesy Transportation

Your dealer may provide you with shuttle service or some other form of courtesy transportation while your vehicle is at the dealership for this repair. Please refer to your Owner's Manual and your dealer for details on Courtesy Transportation.

#### Emission Law Information

In order to ensure your full protection under the emission warranty made applicable to your vehicle by State or Federal Law, and your right to participate in future recalls, it is recommended that you have your vehicle serviced as soon as possible. Failure to do so could legally be determined to be lack of proper maintenance of your vehicle. Also, your vehicle may fail a state or local emission inspection if this recall is not accomplished.

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

(Chevrolet, Pontiac-GMC) Division