

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. E. E. Conner Manager, Product Investigations General Motors Corporation REB 1-6, Room 304 30500 Mound Road Warren, MI 48090-9055 NEF-111bdh 94V-077

Dear Mr. Conner:

This acknowledges receipt of your Defect Information Report involving the fuel systems on certain General Motors Corporation (GM) vehicles submitted in accordance with 49 CFR Part 573, "Defect and Noncompliance Reports."

RECALL CAMPAIGN INFORMATION

NHTSA Recall Campaign ID Number: 94V-077

(Please refer to this number in all future correspondence.)

NHTSA Contact: Jonathan D. White, Chief

Telephone: (202) 366-5227

Technical Analysis Branch

Fax:

(202) 366-7882

Date of Letter: April 15, 1994

Number of Vehicles Recalled: 232,988 GM 1991 and 1992 Chevrolet Camaro and Pontiac Firebird model vehicles manufactured from October 1989 through August 1992.

Noncompliance: These vehicles fail to comply with Federal Motor Vehicle Safety Standard No. 301 "Fuel Integrity," because there can be cracks or "pin holes" at the fuel filler neck solder joint, resulting in fuel odor or fuel leakage. If an ignition source was present, fuel leakage from this condition could result in a vehicle fire.

This recall campaign was the subject of an Engineering Analysis, EA93-005, conducted by the Office of Defects Investigation.

GM is responsible for the remedy of these vehicles from this date forward, regardless of vehicle age, mileage, or ownership. You should know that the agency provides a listing of safety recalls to the media at the end of each month. This recall will be a part of that listing.

ADDITIONAL INFORMATION REQUIRED

In order for us to complete our file on this matter, please provide the following additional information.

Under Part 573.5(c)(8), we request that GM identify and describe how the remedial program will be conducted. It is otherwise assumed that this recall shall begin nationally, and uniformly, within 30 calendar days. We request that GM provide a proposed schedule for the implementation of this recall. The schedule should include, but not be limited to, the date the manufacturer's news release to the media will be published, the date(s) of notification to distributors and dealers/retailers, and the date(s) of notification to purchasers. Identify the date on which parts necessary for remedy of this recall will be available. The schedule must also include an explanation for any delay in the implementation of this recall. Provide a copy/transcript of any news release issued on this recall and the date the news release was provided to the media.

Please provide this information, referencing the National Highway Traffic Safety Administration's identification codes on page 1 of this letter, to this office by July 7, 1994.

NOTIFICATION TO PURCHASERS

Notification to purchasers should begin as soon as possible. A final copy of all the notification documents must be submitted to this office within 5 working days after the documents are first sent to purchasers and dealers as required in Part 573.5(c)(9).

QUARTERLY STATUS REPORTS

Quarterly reports are due for the first 6 consecutive quarters once owner notification has begun. In the case where the recall appears to be completed, quarterly reporting is required until your company is notified otherwise by this office. The first quarterly status report for this campaign, as required in Part 573.6, is required to be submitted within 25 working days after the close of the calendar quarter in which notification to purchasers begins. For instance, the current calendar quarter ends on June 30, 1994, and the first quarterly report for recalls where owner notification begins in this quarter is due by August 5, 1994.

Also, in the first quarterly report, we request that GM identify, separately, the number of vehicles which were returned or otherwise remedied prior to sale to owners.

Sincerely,

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James P. Talentino, Chief Recall Analysis and Information Division Office of Defects Investigation Enforcement



North American Operations

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DEFECT VEFE

941/-077

April 15, 1994

Mr. William A. Boehly Associate Administrator for Enforcement National Highway Traffic Safety Administration 400 Seventh Street, S.W. Washington, D.C. 20593

Dear Mr. Boehly:

The following information is submitted pursuant to the requirements of 49 CFR 573.5 as it applies to a determination by General Motors of a noncompliance involving certain 1991 and 1992 F model cars.

573 5(c)(1): Chevrolet and Pontiac Motor Divisions of General Motors Corporation.

573 5(c)(2)(3)(4): This information is shown on the attached sheet.

573.5(c)(5): General Motors has determined that certain 1991-92 F model vehicles fail to conform to the requirements of Federal Motor Vehicle Safety Standard (FMVSS) 301, "Fuel System Integrity." These vehicles could exhibit cracks or "pin holes" at the fuel filler neck solder joint. This could result in fuel odor or fuel leakage. If an ignition source was present, fuel leakage from this condition could result in a vehicle fire.

573.5(c)(7): General Motors began its investigation of this condition after receiving PE 92-073 from NHTSA in September, 1992 regarding 1991 F car fuel tanks. In December of 1993 GM was notified by NHTSA of eleven F cars with possible fuel tank filler neck joint leaks in Columbus, Ohio. After investigation of these incidents, GM decided to conduct a field survey. Upon review of the final survey results, GM determined that a noncompliance existed in 1991 and 1992 F model cars and initiated a recall.

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

<u>573.5(c)(9)</u>: Draft copies of the owner notification letter and dealer bulletin are attached. The final letter and bulletin will be forwarded when they are available.

Very truly yours,

E. E. Conner Manager

Product Investigations

1598 attachments

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

VEHICLES POTENTIALLY AFFECTED BY MAKE, MODEL, AND MODEL YEAR <u>PLUS INCLUSIVE DATES OF MANUFACTURE</u>

EST. NO.	• Unknown	ţ			
DESCRIPTIVE INFO. TO PROPERLY DENT, VEH.	Camaro	Camero	Firebird	Firebird	
MANUFACTURING DATES (FROM) (TO)	16/70	08/92	07/91	08/92	
INCL MANUFACTO (FROM)	10/39	08/91	10/89	08/91	
NUMBER INVOLVED	96,039	266,997	44,905	25,047	232,958
MODEL YEAR	1991	1992	1991	1992	GM TOTAL
NODEL SERIES	Ĺ	IL.	μ	ш	Ū
MAKE	Chevrolet	Chevrolet	Pontiac	Pontiac	

* All affected vehicles will be inspected and corrected

6C

__., 1994

PRODUCT SAFETY CAMPAIGN 92C## - FUEL FILLER NECK TO FUEL TANK SENDER JOINT 1991-92 CHEVROLET CAMARO

To: All Chevrolet/Geo 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 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 owner 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 that is being sent to owners, the owners are being instructed to contact the Chevrolet 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.

DEFECT INVOLVED

General Motors has determined that certain 1991-92 Chevrolet Camaro model vehicles fail to conform to the requirements of Federal Motor Vehicle Safety Standard (FMVSS) 301, "Fuel System Integrity". These vehicles could exhibit cracks or "pin holes" at the fuel filler neck solder joint. This could result in fuel odor or fuel leakage. If an ignition source was present, fuel leakage resulting from this condition could result in a vehicle fire.

To correct this condition, dealers are to inspect the fuel tanks of involved vehicles and replace those tanks that exhibit the crack or "pin hole" condition.

944-07

Number: 9#C## Section: #_ Page No: 2

VEHICLES INVOLVED

Involved are certain 1991-92 Chevrolet Camaro model vehicles built within the following VIN breakpoints:

YEAR	HODEL	PLANT	PLANT	PRON	THROUGH
1991	F-Car	Van Nuys	"L"	ML100001	ML200843
1992	F-Car	Van Nuys	"t"	NL100001	NL170008

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 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 has no involved vehicles currently assigned.

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

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 <u>before</u> owners take possession of these vehicles.

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.

Owners of vehicles recently sold from your new vehicle inventory with no owner information indicated on the dealer listing, are to be contacted by the dealer, and arrangements made to make the required correction according to the instructions contained in this bulletin. This could be done by mailing to such owners a copy of the owners letter accompanying this bulletin. Campaign follow-up cards should not be used for this purpose, since the owner may not as yet have received the notification letter.

Number: 9#C## Section: # Page No: 3

BEALER CAMPAIGN RESPONSIBILITY (Con't)

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.

PARTS INFORMATION

Parts required to complete this campaign are to be obtained from General Motors Service Parts Operations (GMSPO). To ensure these parts will be obtained as soon as possible, they should be ordered from GMSPO on a "V.I.P." order with no special instruction code, but on an advise code (1).

Part Number	Description	Quantity/ Vehicle
10269091	Fuel Tank Unleaded	1 - If Required
10269092	Fuel Tank Leaded (Export Vehicles Only)	1 - If Required
22515965	Sending Unit Seal	1 - If Required
10239826	Fuel Tank Insulator - Upper	2 - If Required

LIQUID LEAK DETECTOR

Each dealer will be shipped a tube of SNOOP liquid leak detector, J-####, for use in this campaign during the week of ##, 1994. This first tube of liquid leak detector is being furnished at no charge. Additional tubes, if required, may be purchased by contacting Kent-Moore Tool Company at 1-800-345-2233. Liquid leak detector may also be purchased locally if the dealer prefers but ONLY "BNOOP" brand liquid leak detector is to be used in the performance of this campaign.

SERVICE PROCEDURE

Tools Required:

J-##### J-24460-1 SNOOP Liquid Leak Detector Radiator Pressure Test Pump

INSPECTION PROCEDURE

TBD

REPAIR PROCEDURE

ÎBD

Install Campaign Identification Label.

Number: 9/C// Section: /

Page No: 4

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 for periodic servicing by the owner. Additional "Campaign Identification Labels" can be obtained from DAC.

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

CLAIM INFORMATION

Submit a Product Campaign Claim with the information indicated below:

RĒPAIR PIRFORMED	₽C	PAILED PART NO.	PARTE	CC-FC	LABOR OP	LABOR EOURS	OTHER BOURS	NET AMOUNT
Inspect Fuel Tank Filler Neck For Leaks - No Leaks Present, No Repair Required	-			8K-00	vo	9.9	0.1	***
Inspect Fuel Tank Filler Neck For Leaks - Leaks Found, Fuel Tank Replaced	4	*******	**	SR-00	V1	1.1	0.1	***

- * Campaign Administrative Allowance.
- ** The "Parts Allowance" should be the sum total of the current GMSPO Dealer Net price plus 30% of all parts required for the repair.
- *** The amount identified in the "Net Amount" column should represent the sum of the current GMSPO Dealer Net price plus 30% for ----- used to perform the required repairs.

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

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

(Notification Used By Chevrolet Motor Division)

____ ___, 1994

Dear Chevrolet Camaro Owners

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

REASON FOR THIS RECALL

General Motors has determined that certain 1991-92 Chevrolet Camaro model vehicles fail to conform to the requirements of Federal Motor Vehicle Safety Standard (FMVSS) 301, "Fuel System Integrity". These vehicles could exhibit cracks or "pin holes" at the fuel filler neck solder joint. This could result in fuel odor or fuel leakage. If an ignition source was present, fuel leakage resulting from this condition could result in a vehicle fire.

WHAT WE WILL DO

To correct this condition, your dealer will inspect your vehicle's fuel tank and replace the tank if it exhibits the crack or "pin hole" condition. This service will be performed for you at no charge.

WHAT YOU SHOULD DO

Please contact your Chevrolet dealer as soon as possible to arrange a service data and so the dealer may order the necessary parts for the repair. Instructions for making this inspection/correction have been sent to your dealer and parts are available. The labor time necessary to perform this service correction is approximately. Please ask your dealer if you wish to know how much additional time will be needed to schedule and process your vehicle.

Your Chevrolet dealer is best equipped to obtain parts and provide service to ensure that your vehicle is corrected as promptly as possible. If, however, you take your vehicle to your dealer on the agreed service date, and they do not remedy this condition on that date or within five (5) days, we recommend you contact the Chevrolet Customer Assistance Center by calling 1-800-222-1020.

After contacting your dealer and the Customer Assistance Center, if 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, S.W., Washington, D.C. 20590 or call 1-800-424-9393 (Washington D.C. residents use 366-0123).

The enclosed owner reply card identifies your vehicle. Presentation of this card to your dealer will assist in making the necessary inspection/correction in the shortest possible time. If you have sold or traded your 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 Motor Division GENERAL MOTORS CORPORATION

Enclosure



North American Operations

James P. Talentino, Chief
Defect Identification Division
Office of Defects Investigation Enforcement
National Highway Traffic Safety Administration
400 Seventh Street, S.W.
Washington, D.C.

July 1, 1994

Dear Mr. Talentino:

NEF-111bdh 94V-077

This is in response to your letter of June 20, 1994 regarding the above referenced recall campaign.

Copies of the final bulletin (including service procedure) and owner letter are included in Attachment A. Dealer bulletins were mailed on May 24, 1994 and owner letters on May 31, 1994. General Motors issued a press release concerning this campaign the week of June 6, 1994 and a copy is provided in Attachment B. The parts necessary to conduct this recall are currently available.

Very truly yours,

E E. Conner

Manager

Product Investigations

attachments



CHEVROLET MOTOR DIVISION

General Motors Corporation Service Department Q4V077
Dealer
Product
Campaign
Bulletin

92C36

Number.

6C

Section. June, 1994

Date:

Subject: PRODUCT SAFETY CAMPAIGN 92C36 ~ FUEL FILLER NECK TO FUEL TANK SOLDER JOINT

Model and Year: 1991-92 CHEVROLET CAMARO

To: All Chevrolet/Geo 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 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 owner 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 that is being sent to owners, the owners are being instructed to contact the Chevrolet 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.

DEFECT INVOLVED

General Motors has determined that **certain** 1991-92 Chevrolet Camaro model vehicles fail to conform to the requirements of Federal Motor Vehicle Safety Standard (FMVSS) 301, "Fuel System Integrity". These vehicles could exhibit cracks or "pin holes" at the fuel filler neck solder joint. This could result in fuel odor or fuel leakage. If an ignition source was present, fuel leakage resulting from this condition could result in a vehicle fire.

DEFECT INVOLVED (Con't)

To correct this condition, dealers are to inspect the fuel tanks of involved vehicles and replace those tanks that exhibit the crack or "pin hole" condition.

In addition, for vehicles which require fuel tank replacement, owners are being informed that an alternate means of transportation will be provided free of charge until the fuel tank replacement is completed.

VEHICLES INVOLVED

Involved are certain 1991-92 Chevrolet Camaro model vehicles built within the following VIN breakpoints:

			PLANT		
YEAR	MODEL	PLANT	CODE	FROM	THROUGH
1991	F-Car	Van Nuys	"L"	ML100001	ML200843
1992	F-Car	Van Nuys	"L"	NL100001	NL170008

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 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 has no involved vehicles currently assigned.

PARTS INFORMATION

It is anticipated that less than 3% of suspect fuel tanks assemblies will require replacement. Place orders accordingly.

Parts required to complete this campaign are to be obtained from General Motors Service Parts Operations (GMSPO). To ensure these parts will be obtained as soon as possible, they should be ordered from GMSPO on a "V.I.P." order with no special instruction code, but on an advise code (1).

Part Number	Description	Quantity/ Vehicle
10269091	Fuel Tank Unleaded	1 - If Required
10269092	Fuel Tank Leaded (Export Vehicles Only)	1 - If Required
22515965	Sending Unit Seal	1 - If Required
10113029	Fuel Tank Insulator - Upper	2 - If Required

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

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

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.

Owners of vehicles recently sold from your new vehicle inventory with no owner information indicated on the dealer listing, are to be contacted by the dealer, and arrangements made to make the required correction according to the instructions contained in this bulletin. This could be done by mailing to such owners a copy of the owners letter accompanying this bulletin. Campaign follow-up cards should not be used for this purpose, since the owner 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.

This bulletin is notice to you that the new motor vehicles included in this campaign may not comply with the standard identified above. Under Section 108 of the National Traffic and Motor Vehicle Safety Act, it is illegal for a dealer to sell a new motor vehicle which the dealer knows does not comply with an applicable Federal Motor Vehicle Safety Standard. As a consequence, if you sell any of these motor vehicles without first performing the campaign correction, your dealership may be subject to a civil penalty up to \$1,000 for each such sale.

LIOUID LEAK DETECTOR

Each dealer will be shipped a bottle of SNOOP liquid leak detector, J-41365, for use in this campaign during the week of May 23, 1994. Additional bottles, if required, may be purchased by contacting Kent-Moore Tool Company at 1-800-345-2233. Liquid leak detector may also be purchased locally if the dealer prefers but ONLY "SNOOP" brand liquid leak detector is to be used in the performance of this campaign.

Each bottle contains enough liquid leak detector to inspect approximately 16 vehicles (8 oz. bottle - approx. 1/2 oz. per vehicle).

SERVICE PROCEDURE

	TOOLS REQUIRED
J-41365	SNOOP Liquid Leak Detector
J-24460-01	Radiator Pressure Test Pump

NOTICE: GASOLINE OR GASOLINE VAPORS ARE HIGHLY FLAMMABLE. IF AN IGNITION SOURCE IS PRESENT A FIRE COULD OCCUR. HAVE A DRY CHEMICAL (CLASS B) FIRE EXTINGUISHER NEARBY.

INSPECTION PROCEDURE

1. With ignition key in the run position, check fuel gauge to insure there is no more than 3/4 of a tank of fuel in vehicle. Note fuel gauge reading for reference in performing step 9.

NOTICE: In cases where gauge indicates above 3/4 of a tank of fuel, remove enough fuel from tank so that a 3/4 gauge reading is indicated. Follow "Draining Fuel Tank" procedure in applicable service manual Section 6C-6, Engine Fuel.

- Disconnect negative battery cable after noting radio settings so they may be reset later.
- 3. Remove fuel tank filler cap.
- Remove fuel filler door and cup assembly (6 attaching screws).
 Install filler cap and rotate until at least three clicks are noted.
- 5. Remove left rear wheel well fuel filler neck shield (2 attaching screws).
- 6. Underhood, in area of fuel vapor canister, locate tank pressure control valve and disconnect valve from hose which connects valve to chassis fore-aft fuel vapor pipe (Figure 1).
- 7. Disconnect radiator test cap from Radiator Pressure Test Pump (Kent-Moore Tool J-24460-01 or equivalent) at hose to cap fitting.

NOTICE: Do not, under any circumstances, use shop air in place of radiator pressure tester hand pump. Over pressurizing of fuel tank or emissions system could lead to system leakage or damage. If an ignition source is present, a fire could occur.

 Insert threaded end of radiator pressure tester hose fitting into hose connected to chassis fore-aft vapor pipe.

SERVICE PROCEDURE (Con't)

INSPECTION PROCEDURE (Con't)

9. At a rate of two (2) strokes per second, pressurize fuel system with applicable number of full strokes of Radiator Pressure Tester Hand Pump as indicated below by fuel gauge reading:

FUEL GAUGE READING	NUMBER OF STROKES
Empty to 1/4	50
1/4 to 1/2	45
1/2 to 3/4	35

10. Immediately proceed to rear of vehicle at fuel filler door opening. Working through the wheel well access opening and observing through the quarter panel fuel filler door opening, apply a liberal amount of SNOOP Liquid Leak Detector (Kent-Moore J-41365) completely around fuel tank to filler neck solder joint following instructions on container (Figure 2).

NOTICE: A flashlight or other light source should be used to illuminate area being inspected.

- 11. Visually inspect entire area around solder joint and, based on whether or not bubbles appear in SNOOP Liquid Leak Detector, proceed as indicated below:
 - A. Bubbles Apparent Around Joint Leak indicated, proceed directly to "Fuel Tank Replacement Procedure" below.
 - B. No Bubbles Apparent Around Joint Slowly loosen fuel filler cap while listening for pressure being released past the fuel filler cap seal. If pressure release is heard, proceed with remainder of "Inspection Procedure" steps (steps 12 thru 17).

NOTICE: If pressure release is <u>not</u> heard repeat Steps 9-11 insuring there are no leaks at hose connections and filler cap. Correct leaks as required and proceed with inspection procedure.

- 12. Disconnect Radiator Pressure Test Pump from chassis fore-aft vapor pipe hose and connect tank pressure control valve to hose. Secure hose with existing clamp.
- 13. Install fuel filler neck shield (2 attaching screws).
- 14. Install fuel filler door and cup assembly (6 attaching screws).
- 15. Reconnect negative battery cable. Reset radio settings and clock.
- 16. If fuel was drained from tank in step 1, refill tank to previous level with fuel that was drained.
- 17. Install Campaign Identification Label.

92C36 Number: Section: 6C Page No: 6 1. FUEL VAPOR CANISTER 2. TANK PRESSURE CONTROL VALVE 3. CHASSIS FORE-AFT FUEL VAPOR PIPE FIGURE 1 (TYPICAL) 4. HOSE 5. HOSE CLAMP 6. RADIATOR PRESSURE TEST PUMP HOSE



SERVICE PROCEDURE (Con't)

FUEL TANK REPLACEMENT PROCEDURE

- Disconnect Radiator Pressure Test Pump from chassis fore-aft vapor pipe hose and connect tank pressure control valve to hose. Secure hose with existing clamp.
- Replace existing fuel tank and fuel sender assembly 0-ring gasket with new components following applicable service manual procedures, Section 60-6, Engine Fuel.
- 3. Install fuel filler door and cup assembly (6 attaching screws).
- 4. Reconnect negative battery cable. Reset radio settings and clock.
- 5. If fuel was drained from tank in step 1 of inspection procedure, refill tank to previous level with fuel that was drained.
- 6. Install 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 for periodic servicing by the owner. Additional "Campaign Identification Labels" can be obtained from DAC.

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

CLAIM INFORMATION

Submit a Product Campaign Claim with the information indicated below:

		<u> </u>		,			γ 	i
repair Performed	₽C	FAILED PART NO.	Parts Allon	CC-FC	LABOR OP	LABOR HOURS	OTHER HOURS	net Amount
Inspect Fuel Tank Filler Neck For Leaks - Not Necessary To Drain Fuel From Tank - No Leaks Present, No Repair Required	-			sk-00	V8940	0.3	0.1	***
Inspect Fuel Tank Filler Neck For Leaks - Fuel Drained From Tank - No Leaks Present, No Repair Required	-			SK-00	V8941	0.4	0.1	***
Inspect Fuel Tank Filler Neck For Leaks - Not Necessary To Drain Fuel From Tank - Leaks Found, Fuel Tank Replaced	4	102690 9 1	**	sK-00	V8942	2.2	0.1	***
Inspect Fuel Tank Filler Neck For Leaks - Fuel Drained From Tank Leaks Found, Fuel Tank Replaced	4	10269091	**	\$K-00	V8943	2.3	0.1	***

- * Campaign Administrative Allowance.
- ** The "Parts Allowance" should be the sum total of the current GMSPO Dealer Net price plus 30% of all parts required for the repair.
- *** The amount identified in the "Net Amount" column for labor operations V8940, V8941, V8942 and V8943 should represent the cost of 1/2 oz. of SNOOP liquid leak detector used to perform the inspection procedure.

In addition, the "Net Amount" for labor operations V8942 and V8943 should include the cost of providing the customer alternative transportation ("loaner" car) until fuel tank replacement is completed. DAC authorization is required to recover alternate transportation charges.

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

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



CHEVROLET GE®

(Notification Used By Chevrolet Motor Division)

June, 1994

Dear Chevrolet Camaro Owner:

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 determined that certain 1991-92 Chevrolet Camaro model vehicles fail to conform to the requirements of Federal Motor Vehicle Safety Standard (FMVSS) 301, "fuel System Integrity". These vehicles could exhibit cracks or "pin holes" at the fuel filler neck solder joint. This could result in fuel odor or fuel leakage. If an ignition source was present, fuel leakage resulting from this condition could result in a vehicle fire.

WHAT WE WILL DO

•To correct this condition, your dealer will inspect your vehicle's fuel tank and replace the tank if it exhibits the crack or "pin hole" condition. This service will be performed for you at no charge.

In addition, if your vehicle's fuel tank requires replacement, you will be provided an alternate means of transportation free of charge until the replacement is complete.

WHAT YOU SHOULD DO

Please contact your Chevrolet dealer as soon as possible to arrange a service date and so the dealer may order the necessary parts for the repair. Instructions for making this inspection/correction have been sent to your dealer and parts are available. The labor time necessary to perform this service correction is approximately 20 minutes to 2 hours. Please ask your dealer if you wish to know how much additional time will be needed to schedule and process your vehicle.

Your Chevrolet dealer is best equipped to obtain parts and provide service to ensure that your vehicle is corrected as promptly as possible. If, however, you take your vehicle to your dealer on the agreed service date, and they do not remedy this condition on that date or within five (5) days, we recommend you contact the Chevrolet Customer Assistance Center by calling 1-800-222-1020.

After contacting your dealer and the Customer Assistance Center, if 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 Righway Traffic Safety Administration, 400 Seventh Street, S.W., Washington, D.C. 20590 or call 1-800-424-9393 (Washington D.C. residents use 366-0123).

The enclosed owner reply card identifies your vehicle. Presentation of this card to your dealer will assist in making the necessary inspection/correction in the shortest possible time. If you have sold or traded your 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 Motor Division GENERAL MOTORS CORPORATION

Enclosure

JUN-20-94 MON 13:28

GM LEGAL SAFETY

FAX NO. 3139740612

P. 01



GENERAL MOTORS CORPORATION

General Motors Building, Detroit, Michigan 46202

NEWS

For Release

IMMEDIATELY, Monday, June 6, 1994

Contact:

Greg Pierce (313) 974-1965

GM ANNOUNCES VOLUNTARY SAFETY RECALL

DETROIT - General Motors said today it will conduct a voluntary safety recall campaign involving approximately 249,000 1991-1992 model Chevrolet Camaros and Pontiac Firebirds. The vehicles are being recalled to Inspect the fuel filler necks for possible fuel system leaks. **GM is** not aware of any accidents, injuries or fires related to this condition.

Dealers will inspect the fuel systems for possible cracks and/or pinholes in the solder used to attach the fuel filler neck to the fuel tank. The condition could result in the leakage of fuel or fuel odors. It's estimated that only a small percentage of these cars may experience this condition,

Owners of affected vehicles will be notified by mail to bring their vehicles to their dealer to inspect the fuel filter neck solder joint. If a crack or pinhole is detected, the entire fuel tank assembly will be replaced. Inspections and replacements, if necessary, will be made at no charge to owners.

* * * *

D C S A D M I N I S T R A T I V E M E S S A G E F A C S I M I L E

AM94-257

TO: THE FOLLOWING NON-DEALER RECIPIENTS:

REGIONAL MANAGERS
ZONE MANAGERS
DEALER ASSISTANCE CENTER MANAGERS
TECHNICAL ASSISTANCE NETWORK MANAGERS - W.A. OAKES & D. ROBINSON
CUSTOMER ASSISTANCE CENTER MANAGERS - D.M. ELLINGHAM & J.S. WILLIAMS
FLEET SERVICE MANAGERS
SERVICE SYSTEMS MANAGER
REGIONAL SERVICE MANAGERS
ASSISTANT REGIONAL SERVICE MANAGERS
DISTRICT SERVICE MANAGERS

ORIGINATING DEPARTMENT: SALES AND SERVICE - CUSTOMER SUPPORT

CONTACT PERSON: R. J. TREPPA, ADMINISTRATOR PRODUCT CAMPAIGNS

SERVICE OPERATIONS, 8-227-6595

REVISION TO:

ADMIN TYPE:

S

944-077

** ADMINISTRATIVE MESSAGE 01-178 CREATED ON 5/23/94

AT Page 1 of 3

*SUB PRODUCT SAFETY CAMPAIGN 92036

*SUB FUEL FILLER NECK TO
*SUB FUEL TANK SOLDER JOINT

TO: ALL CHEVROLET GEO DEALERS

ATTN: SERVICE & PARTS MANAGERS

MODEL YEAR 1991-92 CAMARO

GENERAL MOTORS HAS DETERMINED THAT CERTAIN 1991-92 CHEVROLET CAMARO MODEL VEHICLES FAIL TO CONFORM TO THE REQUIREMENTS OF FEDERAL MOTOR VEHICLE SAFETY STANDARD (FMVSS) 301, "FUEL SYSTEM INTEGRITY". THESE VEHICLES COULD EXHIBIT CRACKS OR "PIN HOLES" AT THE FUEL FILLER NECK SOLDER JOINT. THIS COULD RESULT IN FUEL DOOR OR FUEL LEAKAGE. IF AN IGNITION SOURCE WAS PRESENT, FUEL LEAKAGE RESULTING FROM THIS CONDITION COULD RESULT IN A VEHICLE FIRE.

TO CORRECT THIS CONDITION, DEALERS ARE TO INSPECT THE FUEL TANKS OF INVOLVED VEHICLES AND REPLACE THOSE TANKS THAT EXHIBIT THE CRACK OR "PIN HOLE" CONDITION.

IN ADDITION, FOR VEHICLES WHICH REQUIRE FUEL TANK REPLACEMENT, OWNERS ARE BEING INFORMED THAT A "LOANER" CAR WILL BE PROVIDED FREE OF CHARGE UNTIL THE FUEL TANK REPLACEMENT IS COMPLETED.

VEHICLES INVOLVED

INVOLVED ARE CERTAIN 1991-92 CHEVROLET CAMARO MODEL VEHICLES BUILT WITHIN THE FOLLOWING VIN BREAKPOINTS:

YEAR	MCDEL	PLANT	PLANT CODE	FROM	THROUGH
1991	F-CAR	VAN NUYS	¹¹L■	ML100001	ML200843
1992	F-CAR	VAN NUYS	¹¹L■	NL100001	NL170008

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 WILL BE FURNISHED TO INVOLVED DEALERS WITH THE CAMPAIGN BULLETIN. OWNER NAME AND ADDRESS DATA FURNISHED WILL ENABLE DEALERS TO FOLLOW-UP WITH OWNERS INVOLVED IN THIS CAMPAIGN.

OWNER NOTIFICATION

OWNERS WILL BE NOTIFIED OF THIS CAMPAIGN ON THEIR VEHICLES BY CHEVROLET MOTOR DIVISION.

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 <u>BEFORE</u> OWNERS TAKE POSSESSION OF THESE VEHICLES.

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.

PARTS INFORMATION

IT IS ANTICIPATED THAT LESS THAN 3% OF SUSPECT FUEL TANKS ASSEMBLIES WILL REQUIRE REPLACEMENT. PLACE ORDERS -- ACCORDINGLY.

PARTS REQUIRED TO COMPLETE THIS CAMPAIGN ARE TO BE OBTAINED FROM GENERAL MOTORS SERVICE PARTS OPERATIONS (GMSPO). TO ENSURE THESE PARTS WILL BE OBTAINED AS SOON AS POSSIBLE, THEY SHOULD BE ORDERED FROM GMSPO ON A "V.I.P." ORDER WITH NO SPECIAL INSTRUCTION CODE, BUT ON AN ADVISE ADVISED CODE (1).

LIQUID LEAK DETECTOR

EACH DEALER WAS SHIPPED A BOTTLE OF "SNOOP" LIQUID LEAK DETECTOR, J-41365, FOR USE IN THIS CAMPAIGN DURING THE WEEK OF MAY 16, 1994. ADDITIONAL BOTTLES, IF REQUIRED, MAY BE PURCHASED BY CONTACTING KENT-MOORE TOOL COMPANY AT 1-800-345-2233. LIQUID LEAK DETECTOR MAY ALSO BE PURCHASED LOCALLY IF THE DEALER PREFERS BUT ONLY "SYOOP" BRAND LIQUID LEAK DETECTOR IS TO BE USED IN THE PERFORMANCE OF THIS CAMPAIGN.

PAGE 3

EACH BOTTLE CONTAINS ENOUGH LIQUID LEAK DETECTOR TO INSPECT APPROXIMATELY 16 VEHICLES (8 07. BOTTLE - APPROX. 1/2 0Z. PER VEHICLE).

DFALER MAILING OF CAMPAIGN BULLETIN AND INVOLVED VEHICLE LISTINGS BEGINS JUNE 2, 1994. OWNERS LETTER OF NOTIFICATION MAILING BEGINS JUNE 9, 1994.

E. JOHNSON MANAGER -DEALER OPERATIONS

ODI RESUME

EA93-005 INVESTIGATION:

DATE CLOSED: 26-APR-94

SUBJECT :

GM F Car Fuel Tank Leakage

PROMPTED BY

PE92-073

PRINCIPAL ENGINEER:

George D.C. Chiang

MANUFACTURER

MODEL(S)

Chevrolet Camaro and Pontiac Firebird

MODEL YR

1991

VEHICLE POPULATION:

140,943

Improper solder seal at the fuel tank to fuel filler pipe allows leakage of fuel.

FAILURE REPORT SUMMARY

BASIS:	ODI	MANUFACTURER_	TOTAL
COMPLAINTS: FIRES: INJ ACCID: # INJURIES: FAT ACCID:	9 0 0 0	113 0 0 0 0	122 0 0 0
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DESCRIPTION OF OTHER:

This Engineering Analysis is closed.

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Recall 94V-0

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An improper connection between the fuel filler pipe and the fuel tank may cause fuel leakage in the subject vehicles. Specifically, the solder joint at the interface between the filler neck and the fuel tank is inadequate. There may be gaps in the solder around the circumference of the joint, or the solder may crack. Another defect may be associated with the filler pipe, which might not be press-fitted into the filler neck joint hole of the fuel tank, allowing fuel to leak through the interface. (cont.)

Fuel leakage may also occur in the fuel cap are resulting from cross threading between the fuel cap and the filler pipe. Improper design and manufacture of the fuel cap threads allegedly cause cross threading.

FUEL FILLER CAP: GM recognized the problem of the filler cap cross threading and has taken steps to correct it. The two service bulletins issued in September 1990 addressed this problem with the availability of a redesigned filler cap. To further alleviate the problem of fuel leakage at the filler cap, GM redesigned the filler neck in May 1991.

The complaint rate for the filler cap is 22.7 per 100,000 vehicles. More than half of the complaints (58 percent) were received from owners with 5,000 miles or less on their vehicles. The number of complaints has decreased since the service bulletins were issued in September 1990. This may indicate the fuel cap problem is now over.

FUEL TANK FILLER PIPE: GM reports 2,656 warranty claims (representing 1.9 percent of the subject vehicles sold) for fuel tanks. Replacement fuel tank sales are 2.2 percent of the total vehicle population. The part sales appear to have peaked in August 1991 and then declined, in a manner similar to the warranty claims, but then climbed again to reach the highest value in October 1992, indicating that the problem is not over.

ODI continues to receive complaints concerning fuel tank leakage in the subject vehicles. The available information indicates that the problem of fuel tank leakage from the filler pipe/fuel tank connection continues. The filler pipe and fuel tank are assembled and installed in the vehicle as one piece. The method for alleviating the problem is replacing the filler neck and tank entirely.

Testing at the VRTC has shown that a high percentage of the subject vehicles may suffer from fuel leaks of the type being investigated. A total of 31 Model Year 1991 Camaro and Firebird vehicles were inspected and 12 leaked fuel from the filler pipe/fuel tank connection.

CONCLUSIONS:

FUEL FILLER CAP:

- There has been a decrease in the number of complaints since GM issued the service bulletins about the availability of a new cap.
- The new cap is available free of charge to the owners of the subject vehicles.

Further investigation of this subject is not necessary as the steps GM has taken are sufficient to correct the problem.

FUEL TANK FILLER NECK:

- Despite the changes GM has made to the assembly procedures, complaints continue to be submitted to ODI.
- Part sales for fuel tank filler neck assemblies continues at a high rate.
- Warranty claims have declined since the changes in assembly procedures.
- 4. There have been no fires, injuries or lawsuits.
- Many other vehicles have been recalled for fuel leaks. (cont.)

6. CM initiated Usafety recall to correct the fuel leaking problem.

BASIS FOR CLOSING: It is recommended that this Engineering Analysis be closed because GM initiated a safety recall (94V-077) of the subject vehicles.







GENERAL MOTORS CORPORATION 1880 L STREET, N. W. WASHINGTON, D. C. 20036 [202] 775-5012

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Auto Safety Hotline VEHICLE OWNER'S QUESTIONNAIRE

NATIONWIDE 1-800-424-9393 DC METRO AREA 202-366-0123

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In determining whether a manufacturer should take appropriate action to correct a safety detect. If the NHTSA proceeds with administrative enforcement or litigation against a manufacturer, your response, or a statistical authmany theract, may be used in support of the agency's action.

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This information is requested pursuant to authority in the National Highway
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to respond to this questionnaire. Your response may be used to assist the NMTSA

in determining whether a manufacturer should take appropriate action to correct a safety defect. If the NHTSA proceeds with administrative emorgement or stopation ageinst a manufacturer, your response, or a statistical summary thereof, may be used in support of the agency's action.

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The Privacy Act of 1974

Public Law 93-579

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in determining whether a manufacturer should take appropriate action to correct a safety detect. If the NHTSA proceeds with administrative enforcement or dispallion against a manufacturer, your response, or a statistical summary the ear, may be used in support of the agency's action.

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