



TECHNICAL INFORMATION

SUBJECT: <b>HYDRAULIC BRAKE BOOSTER ACCUMULATOR — SAFETY RECALL CAMPAIGN</b>		No: <b>SR-01-008REVII</b>	
		DATE: <b>October, 2001</b>	
		MODEL: <b>See below</b>	
CIRCULATE TO:	<input checked="" type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY PROCESSOR	<input checked="" type="checkbox"/> SALES MANAGER

*This bulletin supercedes SR-01-008REV, which should be discarded. This bulletin contains revised accumulator discharge and disposal procedures. The new procedures are marked by ►.*

## PURPOSE

The hydraulic brake booster (HBB) accumulator on affected vehicles may have been manufactured improperly, which over a period of time may result in leakage of the pressurized nitrogen gas from inside the accumulator. The loss of this gas pressure may result in an abnormal noise from the left side of the dash panel when the brakes are applied, and possibly a delayed first time brake boost assist after the vehicle has been parked for a period of time.

Replace the HBB accumulator with the new, improved parts listed in the PARTS INFORMATION section of this bulletin.

## AFFECTED VEHICLES

2001-2002 Montero models produced before 6/20/01.

## CUSTOMER NOTIFICATION

A letter will be sent to all owners of affected vehicles, telling them to bring their vehicle to their Mitsubishi Motors dealer to replace the hydraulic brake booster accumulator. A copy of the customer notification letter appears later in this bulletin.

## REQUIRED OPERATIONS

Before starting this procedure, **CHECK ON THE WARRANTY SUPERSCREEN** to verify that the vehicle is an affected VIN for this campaign and that this campaign procedure has not already been completed.

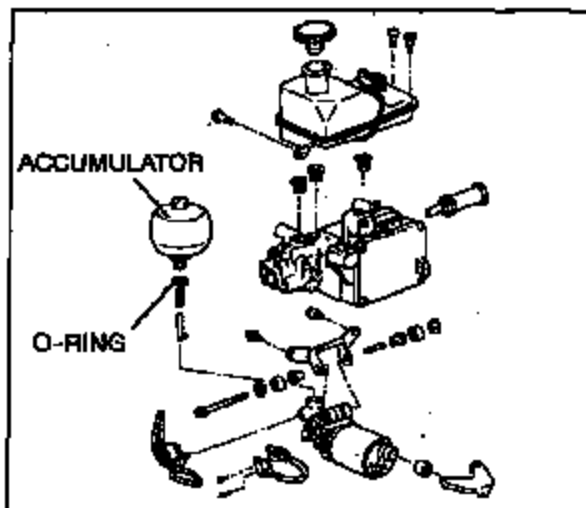
1. Inspect the color of the nut at the top of the hydraulic brake booster accumulator.
  - a. If the nut is painted pink, **STOP**. The improved accumulator has already been installed. Do not continue with this campaign procedure.
  - b. If the nut is **not** painted pink, continue with Step 2 to replace the hydraulic brake booster accumulator.
2. With the ignition turned to the LOCK position, depress the brake pedal repeatedly (up to 40 times) until the pedal becomes hard (high pedal effort). This will relieve the pressure in the accumulator.

### **▲ CAUTION**

**If pressure is left in the power assist system, brake fluid will spill when removing the accumulator.**

Continued

FILE UNDER:	<b>Safety Recall Bulletin in the Dealer Service Information Binder</b>	<b>(2371)</b>
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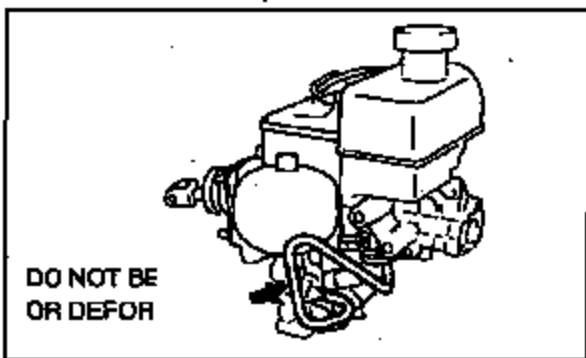
3. Use a 21 mm socket to remove the accumulator. Place a cloth under the accumulator to prevent brake fluid spillage.

Remove the accumulator **vertically**, to prevent metal shavings from accidentally entering the HBB. Remove the O-ring.

**CAUTION**

**DO NOT USE AIR TOOLS TO REMOVE OR INSTALL THE ACCUMULATOR.**

Use of air tools will likely result in shearing the nut from the top of the accumulator.



**CAUTION**

**USE CARE TO PREVENT BENDING OR DEFORMING THE TUBE.**

**WARNING** THE NITROGEN GAS INSIDE THE ORIGINAL ACCUMULATOR MUST BE DISCHARGED BEFORE DISPOSAL. SEE STEP 7.

4. Install the new accumulator provided in the kit (listed in the PARTS INFORMATION section of this bulletin):
  - a. Be sure to use the new O-ring (from the kit) at the bottom of the threaded area of the accumulator.
  - b. Be sure to install the accumulator **vertically**. **DO NOT USE AIR TOOLS TO INSTALL THE NEW ACCUMULATOR.**
  - c. Tighten to 53.9 Nm (40 ft/lbs).
5. Bleed air from the HBB system as follows:
  - a. Turn the ignition on. The HBB pump motor should come on automatically.

Continued

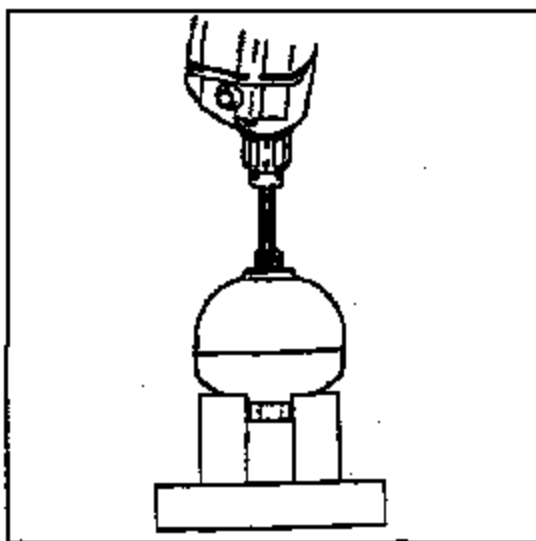
- b. When the HBB pump motor stops, turn off the ignition. Depress the brake pedal up to 40 times, until the pedal becomes hard (high pedal effort). Pump the brake pedal slowly, about one stroke per second.
  - c. Repeat Steps 5a. and 5b. **four times**.
  - d. Replenish the brake fluid in the reservoir tank until it reaches the MAX level.
6. Check for any brake fluid leakage around the accumulator.
7. Discharge and dispose of the old accumulator as follows:

**⚠ WARNING**

**THE NITROGEN GAS INSIDE THE ACCUMULATOR MUST BE DISCHARGED BEFORE DISPOSAL.**

**WEAR SAFETY GLASSES DURING THIS PROCEDURE.**

- ▶ a. Discharge the accumulator in an area away from all vehicles, to prevent any possible damage from brake fluid, rubber and plastic particles that may spray out.



- ▶ b. Secure the accumulator in a vise, with the threaded nipple pointing upward.
- ▶ c. Insert a 4mm drill bit in the hole in the nipple. Then **SLOWLY** drill through the hole in the nipple. You will hear a hissing sound as the nitrogen gas is released. The gas is odorless, colorless, and harmless.  
NOTE: Small pieces of plastic and/or rubber may spray out from the drilled hole.
- ▶ d. Scratch a large X on the accumulator near the nipple, to identify that it has been discharged.
- ▶ e. If any brake fluid remains in the accumulator, drain the fluid out.
- f. Dispose of the accumulator in compliance with Federal, state, and local laws.

### PARTS INFORMATION

A small supply of HBB accumulator kits will be shipped to each dealer automatically. Orders for additional parts can be placed through the normal parts system.

Part No.	Description	Quantity Required
MF977223	HBB Accumulator Kit (contains accumulator and O-ring)	1
MZ311987	Mitsubishi Genuine Brake Fluid	As needed

Continued

## **WARRANTY INFORMATION**

Claims for this campaign must be entered as Recall type "C" claims on your Diamond Network Service Menu. Sample claim screens are shown on the next pages.

***Hydraulic Brake Booster Accumulator - Inspection Only***  
***Campaign Labor Operation: C0106WXX      Time allowance: 0.2 hrs.***

***Hydraulic Brake Booster Accumulator - Inspection and Replacement***  
***Campaign Labor Operation: C0106WXX      Time allowance: 0.5 hrs.***

**Allowable Parts:** Refer to the PARTS INFORMATION section of this bulletin.

Mitsubishi Motor Sales of America, Inc.

**SERVICE CAMPAIGN CLAIM SAMPLE - LABOR OPERATION - 00109WXX**

**ADVANCED DIAMOND NET SCREENS FOR RECALL CLAIMS**

**SERVICE MENU - SELECT RECALL CLAIM (C)**



ENTER THIS CLAIM AS  
RECALL CLAIM TYPE 'C'  
ONLY.

**RECALL CAMPAIGN CUSTOMER / REPAIR INFO SCREEN**



FILL IN ALL OF THE REQUIRED  
OWNER INFORMATION ITEMS  
INCLUDING PHONE NUMBER.

*Be sure the vehicle is actually  
involved in this campaign.  
Check the Super Screen to be  
sure.*

**RECALL CAMPAIGN CLAIM PARTS AND LABOR DETAIL INFO SCREEN:**

- **USE C8109WXX TO INSPECT THE HYDRAULIC BRAKE ACCUMULATOR ASSEMBLY.**

**INSPECTION ONLY SAMPLE CLAIM**

2008

JA...

17017

**INSPECT ONLY -  
HYDRAULIC BRAKE ACCUMULATOR**

*Verify the vehicle is actually involved in this campaign by checking the Superscreen.*

Part Number: C8109WXX

Qty: 02

Labor: 1

No parts will be needed for an inspection only claim.

Enter C8109WXX

Enter a qty of 1 x 0.2 hrs. labor x your dealership's warranty labor rate.

Pl of 1

Send





8408 KATILLA AVENUE  
CYPRESS, CALIFORNIA 90630-2558  
(800) 4A7M0001



October, 2001

RE: IMPORTANT SAFETY RECALL NOTIFICATION: SR-01-008

Dear Mitsubishi Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. Mitsubishi Motor Sales of America, Inc. has determined that a defect which relates to vehicle safety exists in certain 2001-2002 Montaro vehicles produced before June 20, 2001.

**What is the safety issue?** The hydraulic brake booster accumulator may leak pressurized nitrogen gas. This could cause an abnormal noise when the brakes are applied, and a delay in brake booster assist after the vehicle has been parked for a period of time, which could result in a crash.

**What you should do:** Please call your Mitsubishi dealer immediately to schedule a repair date. Check whether parts are in stock for Safety Recall 01-008. If your dealer does not have parts in stock, the parts should be ordered before scheduling a repair date. When bringing your vehicle in, please bring this letter. (If you misplace this letter, the dealer will still take care of repair, free of charge.)

**What your dealer will do:** The dealer will replace the hydraulic brake booster accumulator on your vehicle free of charge.

**How long will it take?** The time needed for repair is about 30 minutes. However, your dealer may need your vehicle for a longer period of time due to scheduling issues.

**Have you changed address or sold the vehicle?** If you have sold your vehicle, please fill out the enclosed postcard and mail it to:

If you have any trouble getting your vehicle repaired promptly and at no charge, please inform us by calling:

Mitsubishi Customer Relations Department  
(888) MITSUBU-2002 (888-848-7820)  
(Central Standard Time) Monday - Saturday 7 a.m. to 10 p.m.

If after contacting Mitsubishi Customer Relations, you still have a problem having your vehicle repaired promptly and without charge, write to the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street S.W., Washington, D.C. 20590, or call the Auto Safety Hotline toll-free (888) 327-4238.

Mitsubishi is committed to making your safety our first concern and we sincerely regret the inconvenience to you caused by this recall.

Sincerely,

SR-01-008  
C0109WXX

Richard Donnelson  
Director, Customer Relations

[Notice to Lessors: If you are a lessor of five or more leased vehicles as of the date of this letter, you have an obligation under federal law (49 CFR Part 577) to provide the lessee of the above referenced vehicle with a copy of this letter by first class mail within ten days of receipt. Also, you must maintain a record which identifies the lessee to whom you sent a copy of this letter, the date you sent it, and the vehicle identification number (VIN) of the subject vehicle.]





<b>SUBJECT:</b> <b>HYDRAULIC BRAKE BOOSTER ACCUMULATOR — SAFETY RECALL CAMPAIGN</b>			<b>No:</b> SR-01-008
			<b>DATE:</b> September, 2001
			<b>MODEL:</b> See below
<b>CIRCULATE TO:</b>	<input type="checkbox"/> GENERAL MANAGER	<input type="checkbox"/> PARTS MANAGER	<input type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY PROCESSOR	<input checked="" type="checkbox"/> SALES MANAGER

**PURPOSE**

The hydraulic brake booster (HBB) accumulator on affected vehicles may have been manufactured improperly, which over a period of time may result in leakage of the pressurized nitrogen gas from inside the accumulator. The loss of this gas pressure may result in an abnormal noise from the left side of the dash panel when the brakes are applied, and possibly a delayed first time brake boost assist after the vehicle has been parked for a period of time.

Replace the HBB accumulator with the new, improved parts listed in the PARTS INFORMATION section of this bulletin.

**AFFECTED VEHICLES**

2001-2002 Montero models produced before 8/20/01

**CUSTOMER NOTIFICATION**

A letter will be sent to all owners of affected vehicles, telling them to bring their vehicle to their Mitsubishi Motors dealer to replace the hydraulic brake booster accumulator. A copy of the customer notification letter appears later in this bulletin.

2001-2002 MONTERO  
 OFFICE OF TECHNICAL SERVICES  
 11/20/01 5:25:10 PM  
 11/20/01 5:25:10 PM  
 11/20/01 5:25:10 PM

**REQUIRED OPERATIONS**

Before starting this procedure, **CHECK ON THE WARRANTY SUPERSCREEN** to verify that the vehicle is an affected VIN for this campaign and that this campaign procedure has not already been completed.

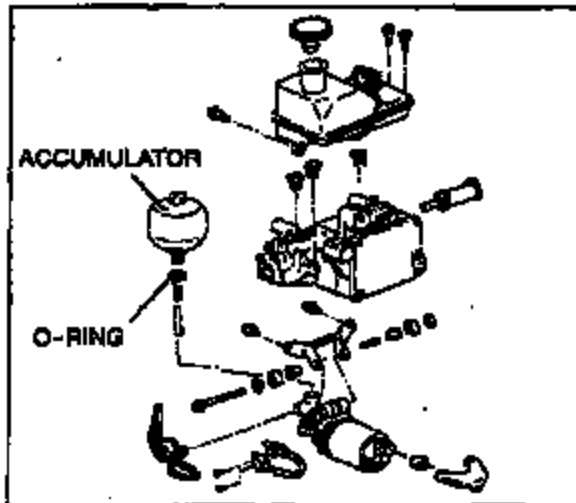
1. Inspect the color of the nut at the top of the hydraulic brake booster accumulator.
  - a. If the nut is painted pink, **STOP**. The improved accumulator has already been installed. Do not continue with this campaign procedure.
  - b. If the nut is not painted pink, continue with Step 2 to replace the hydraulic brake booster accumulator.
2. With the ignition turned to the LOCK position, depress the brake pedal repeatedly (up to 40 times) until the pedal becomes hard (high pedal effort). This will relieve the pressure in the accumulator.

**CAUTION**

If pressure is left in the power assist system, brake fluid will spill when removing the accumulator.

Continued

<b>FILE UNDER:</b>	<b>Safety Recall Bulletin in the Dealer Service Information Binder</b>	<b>(2302)</b>
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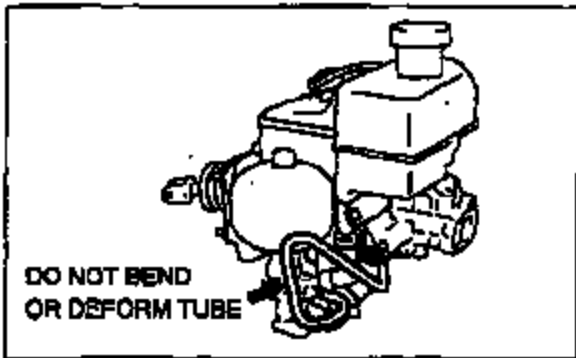


3. Use a 21 mm socket to remove the accumulator. Place a cloth under the accumulator to prevent brake fluid spillage.

Remove the accumulator vertically to prevent metal shavings from accidentally entering the HBB. Remove the O-ring.

**CAUTION**

**DO NOT USE AIR TOOLS TO REMOVE OR INSTALL THE ACCUMULATOR.**  
Use of air tools will likely result in shearing the nut from the top of the accumulator.



**CAUTION**

**USE CARE TO PREVENT BENDING OR DEFORMING THE TUBE.**

**WARNING** THE NITROGEN GAS INSIDE THE ORIGINAL ACCUMULATOR MUST BE DISCHARGED BEFORE DISPOSAL. SEE STEP 7.

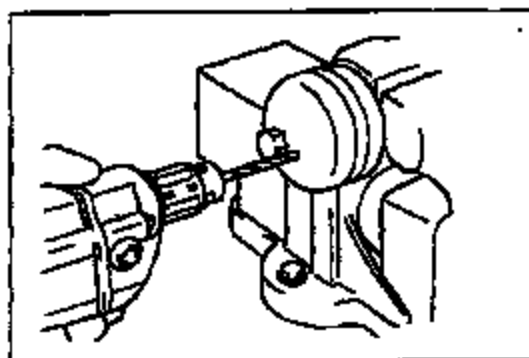
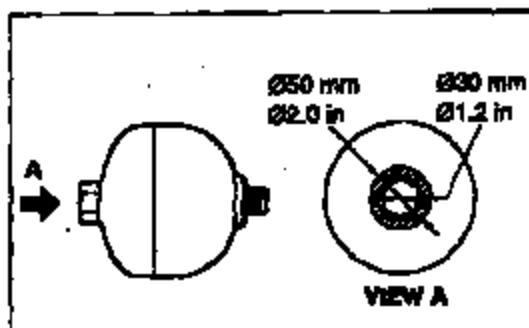
4. Install the new accumulator provided in the kit (listed in the PARTS INFORMATION section of this bulletin):
  - a. Be sure to use the new O-ring (from the kit) at the bottom of the threaded area of the accumulator.
  - b. Be sure to install the accumulator vertically. **DO NOT USE AIR TOOLS TO INSTALL THE NEW ACCUMULATOR.**
  - c. Tighten to 53.9 Nm (40 ft/lbs).
5. Bleed air from the HBB system as follows:
  - a. Turn the ignition on. The HBB pump motor should come on automatically.

Continued

- b. When the HBB pump motor stops, turn off the ignition. Depress the brake pedal up to 40 times, until the pedal becomes hard (high pedal effort). Pump the brake pedal slowly, about one stroke per second.
  - c. Repeat Steps 5a. and 5b. four times.
  - d. Replenish the brake fluid in the reservoir tank until it reaches the MAX level.
6. Check for any brake fluid leakage around the accumulator.
  7. Discharge and dispose of the old accumulator as follows. Wear safety glasses during this procedure.

**⚠ WARNING**

**THE NITROGEN GAS INSIDE THE ACCUMULATOR MUST BE DISCHARGED BEFORE DISPOSAL.**



- a. Secure the accumulator in a vise.
- b. Use a punch at the location shown to create a small dimple for drilling.

- c. Using a drill with a 4 mm drill bit, slowly drill a hole in the accumulator to discharge the nitrogen gas. The accumulator will not burst during drilling.

**NOTE:** You will hear the nitrogen gas discharge. The discharged nitrogen gas is colorless, odorless, and harmless.

- d. Dispose of the accumulator in compliance with Federal, state, and local laws.

**PARTS INFORMATION**

A small supply of HBB accumulator kits will be shipped to each dealer automatically. Orders for additional parts can be placed through the normal parts system.

Part No.	Description	Quantity Required
MR977223	HBB Accumulator Kit (contains accumulator and O-ring)	1
MZ311987	Mitsubishi Genuine Brake Fluid	As needed

Continued

## **WARRANTY INFORMATION**

Claims for this campaign must be entered as Recall type "C" claims on your Diamond Network Service Menu. Sample claim screens are shown on the next pages.

***Hydraulic Brake Booster Accumulator - Inspection Only***

***Campaign Labor Operation: C0109W0X      Time allowance: 0.2 hrs.***

***Hydraulic Brake Booster Accumulator - Inspection and Replacement***

***Campaign Labor Operation: C0109W0X      Time allowance: 0.5 hrs.***

**Allowable Parts:** Refer to the PARTS INFORMATION section of this bulletin.

Mitsubishi Motor Sales of America, Inc.



**RECALL CAMPAIGN CLAIM PARTS AND LABOR DETAIL INFO SCREEN:**

- **USE C0109WXX TO INSPECT THE HYDRAULIC BRAKE ACCUMULATOR ASSEMBLY.**

**INSPECTION ONLY SAMPLE CLAIM**

2008 C JA... 17077

**INSPECT ONLY -  
HYDRAULIC BRAKE ACCUMULATOR**

*Verify the vehicle is actually involved in this campaign by checking the Superscreen.*

Part Number	Description	Qty	Unit
A	C0109WXX	0.2	

No parts will be needed for an inspection only claim.

Enter C0109WXX

Enter a qty of 1 x 0.2 hrs. labor x year dealership's warranty labor rate.

• **USE C0109WXX TO REPLACE THE HYDRAULIC BRAKE ACCUMULATOR ASSEMBLY.**

**INSPECT AND REPLACE SAMPLE CLAIM**

2009 C

JA... 17077

**INSPECT AND REPLACE IF NEEDED - HYDRAULIC BRAKE ACCUMULATOR**

Verify the vehicle is actually involved in this campaign by checking the Superscreen.

A C0109WXX 1 0.5

Enter **C0109WXX**

Enter a qty of 1 x 0.5 hrs. labor x your dealership's warranty labor rate.

**MR977411**  
This kit is the only part that is required.

"Top off" brake fluid if needed may be claimed using MZ311987 for \$1.00.



3401 PATELLA AVENUE  
CYPRESS, CALIFORNIA 92625-3528  
©2001 MITSUBISHI



October, 2001

**RE: IMPORTANT SAFETY RECALL NOTIFICATION: SR-01-008**

Dear Mitsubishi Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. Mitsubishi Motor Sales of America, Inc. has determined that a defect which relates to vehicle safety exists in certain 2001-2002 Montero vehicles produced before June 20, 2001.

- What is the safety issue?** The hydraulic brake booster accumulator may leak pressurized nitrogen gas. This could cause an abnormal noise when the brakes are applied, and a delay in brake booster assist after the vehicle has been parked for a period of time, which could result in a crash.
- What you should do:** Please call your Mitsubishi dealer immediately to schedule a repair date. Ask whether parts are in stock for Safety Recall 01-008. If your dealer does not have parts in stock, they can be ordered before scheduling a repair date. When you bring your vehicle in, show the dealer this letter. (If you misplace this letter, the dealer will still make the repair, free of charge.)
- What your dealer will do:** The dealer will replace the hydraulic brake booster accumulator on your vehicle free of charge.
- How long will it take?** The time needed for this repair is about 30 minutes. However, your dealer may need your vehicle for a longer period of time due to service scheduling issues.
- Have you changed address or sold the vehicle?** If you have changed your address, or sold the vehicle, please fill out the enclosed postcard and mail it to us.

If you have any trouble getting your vehicle repaired promptly and at no charge, please inform us by calling:

Mitsubishi Customer Relations Department  
(888) MITSUBU-2002 (888-648-7820)  
Hours: (Central Standard Time) Monday - Saturday 7 a.m. to 10 p.m.

If after contacting Mitsubishi Customer Relations, you still have a problem having your vehicle repaired promptly and without charge, write to the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street S.W., Washington, D.C. 20590, or call the Auto Safety Hotline toll-free (888) 327-4236.

Mitsubishi is committed to making your safety our first concern and we sincerely regret the inconvenience to you caused by this recall.

Sincerely,

SR-01-008  
C0109WXX

Richard Donahoe  
Director, Customer Relations

[Notice to Lessees: If you are a lessee of five or more leased vehicles as of the date of this letter, you have an obligation under federal law (49 CFR Part 577) to provide the lessee of the above referenced vehicle with a copy of this letter by first class mail within ten days of receipt. Also, you must maintain a record which identifies the lessee to whom you sent a copy of this letter, the date you sent it, and the vehicle identification number (VIN) of the subject vehicle.]