MITSUBISHI MOTORS
TECHNICAL INFORMATION

[redacted]

SUBJECT: FUEL LEVELING VALVE AND FUEL FILLER CHECK VALVE REPLACEMENT — SAFETY RECALL CAMPAIGN	No: SR-04-008
	DATE: August, 2004
	MODEL: 2002-04 Montero

CIRCULATE TO:	[ ] GENERAL MANAGER	[X] PARTS MANAGER	[X] TECHNICIAN
[X] SERVICE ADVISOR	[X] SERVICE MANAGER	[X] WARRANTY PROCESSOR	[ ] SALES MANAGER

PURPOSE

This bulletin contains information concerning a Safety Recall Campaign relating to a possible fuel leakage condition caused by the fuel leveling valve. When the fuel tank is full and the vehicle is parked forward on an upward slope, the fuel tank leveling valve may not maintain proper sealing when fuel expands from a rise in ambient temperature. If the fuel leveling valve does not seal properly, gasoline may leak onto the ground. Gasoline in the presence of an ignition source may result in a fire.

AFFECTED VEHICLES

2002-04 Montero built **beginning April 4, 2001 and continuing through May 21, 2004.**

CUSTOMER NOTIFICATION

A letter will be sent to all owners of affected vehicles asking them to bring their vehicle to their Mitsubishi Motors dealer to have the fuel leveling valve and related fuel filler tube check valve replaced. To simplify the repair procedures, customers are being asked to bring their vehicle in with less than 1/2 tank of fuel. A copy of the customer notification letter appears later in this bulletin.

REQUIRED OPERATIONS

Before starting the PROCEDURES section of this bulletin, **CHECK THE WARRANTY SUPER-SCREEN** to verify that the vehicle is an affected VIN for this campaign and that this campaign procedure has not already been completed.

Repair procedures will include replacing the fuel tank leveling valve and the fuel filler tube check valve according to the instructions in this bulletin.

IMPORTANT
Affected new or used inventory vehicles must be repaired before the vehicle is sold. A list of affected VINs in your dealership's inventory is included with this bulletin.

PROCEDURES

Before starting these recall procedures:

- Check the fuel tank fuel level. If the tank is over 1/2 full, carefully drain the tank into a clean container, until the fuel level is less than 1/2 full.
- Remove the right side rear wheel

Proceed with Sections A, B, C, & D

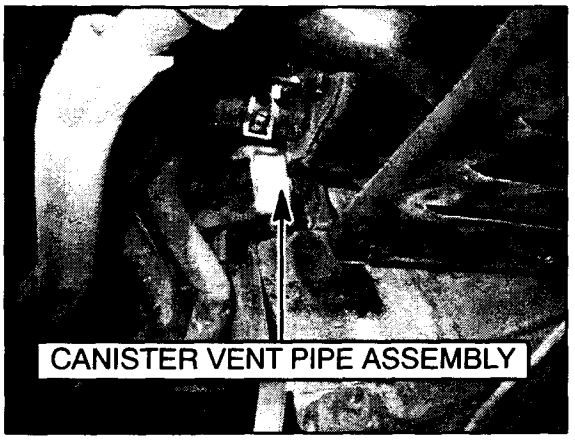
Continued

A. Evaporative Emission Canister Inspection & Purge Procedures

The evaporative emission canister must be inspected for leakage before replacing the fuel leveling valve and fuel filler tube check valve. If the leveling valve leaked previously, the canister may be damaged and require replacement. Perform the following checks to determine if the canister requires replacement.

NOTE: There should be very few cases (less than 1% of the total number of affected vehicles) where the canister will require replacement. If you determine that the canister requires replacement, you must call Techline for canister replacement authorization before ordering the canister. Refer to CAPS for the canister part number.

Canister Inspection



1. Visually inspect the area around the canister vent pipe assembly (located at the rear of the right rear wheel house) for any signs of fuel leakage. If you find any indication of fuel leakage, replace the canister.

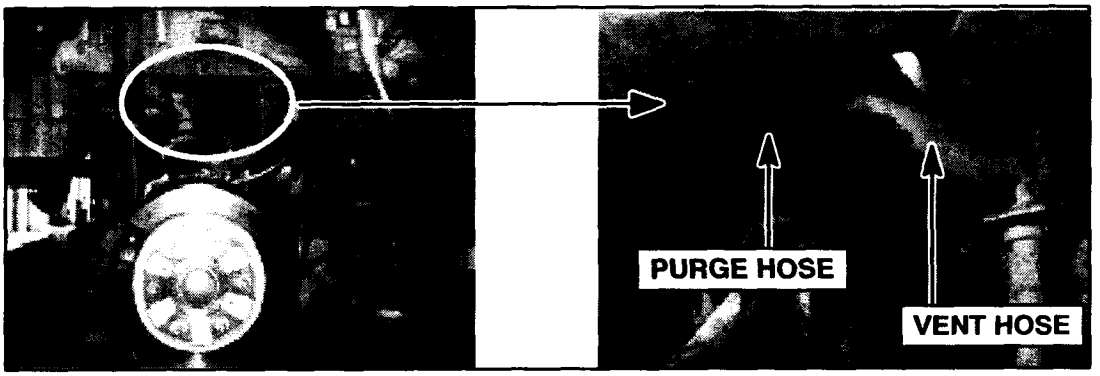
   NOTE: If canister replacement is necessary, refer to Section 17 in the Service Manual. If the canister is replaced, purging is not required. After replacement, go to Section B.

2. Start the engine and let it idle for about 10 minutes. If there is any engine stalling or severe rough idling, replace the canister.

3. Connect the scan tool and check for DTCs. If DTC P0441 is recorded, replace the canister.

4. If none of the above conditions apply, do not replace the canister. Proceed with the Canister Purging procedures beginning with Step 5.

Canister Purging



5. Disconnect the purge hose and the vent hose on the right side of the canister. The canister can be reached through the right rear wheel house, above the upper suspension arm.

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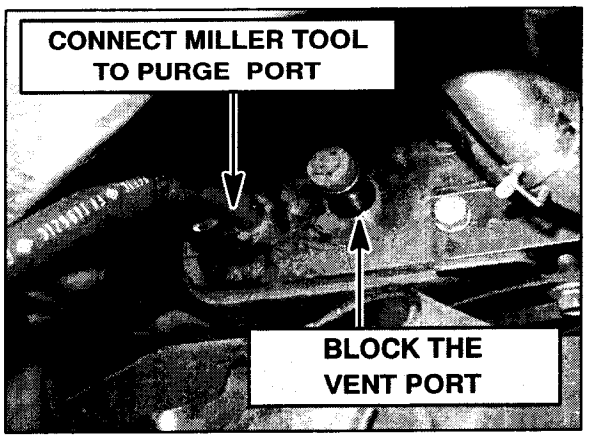
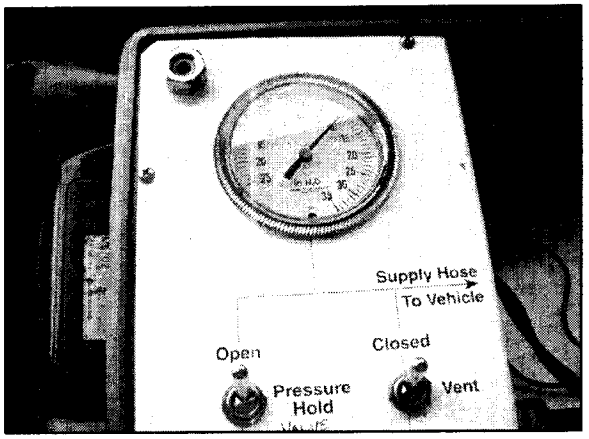
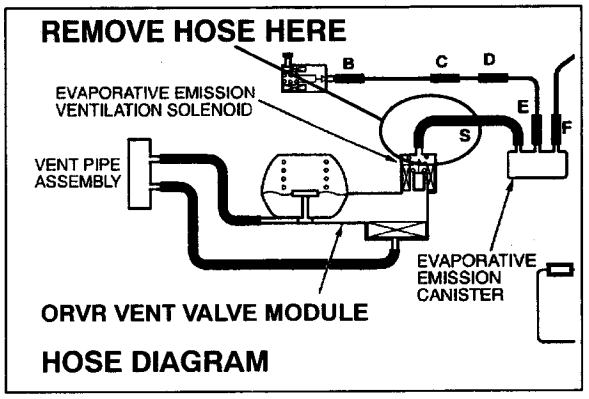


6. Block off the canister vent port using a rubber damper, p/n MU720011 or equivalent. Connect the hose from the Miller Pressure Pump Tool (Miller # 6872A) to the canister purge port.



7. Run the Miller Pressure Pump Tool for 4 complete 15 minute cycles. On the Miller Tool, set the Pressure Hold switch to Open and the Vent switch to Closed. The Miller Tool gauge should indicate less than 15 in. H_2O during the purging procedure. While the Miller tool is running, proceed to Sections B & C.
NOTE: If the Miller Tool gauge gives a high reading (over 15 in. H_2O) disconnect the hose, labeled "S" in the hose diagram, and start the Miller Tool again. If the reading remains high, replace the canister. If the reading drops to about 15 in. H_2O or less with the hose disconnected, a restriction in the ORVR Vent Valve Module is indicated. Refer to Service Manual Section 13A to diagnose the condition.

⚠ CAUTION During purging, if any liquid fuel leaks from the canister, stop the purging procedures and replace the canister.



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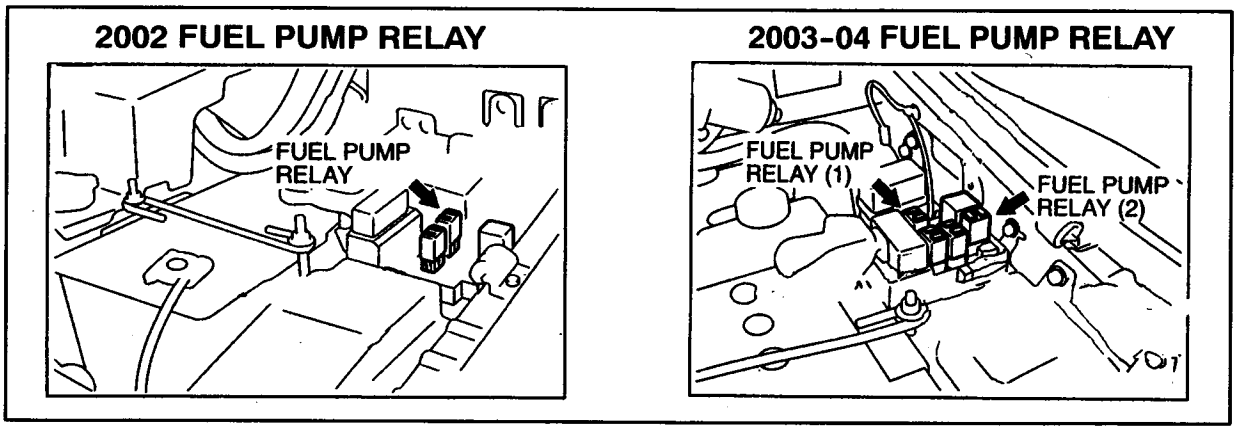
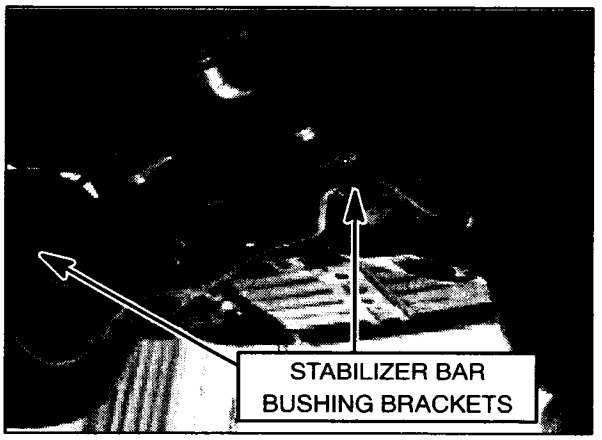
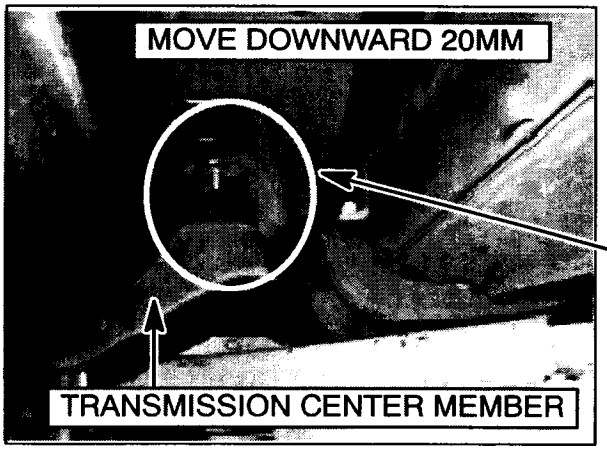
B. Fuel Leveling Valve Replacement



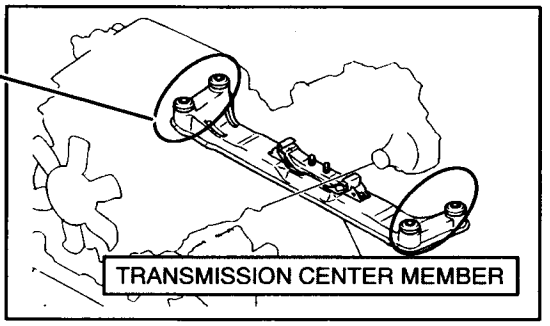
1. Release the fuel pressure of the high pressure fuel line by removing the fuel pump relay(s) and then starting the engine and letting it idle until it runs out of fuel. This takes the fuel pressure off the high pressure fuel line.



2. Remove the two bolts from each of the rear stabilizer bar bushing brackets and move the stabilizer bar downward.



3. Place a transmission jack under the transmission center member for support. Then loosen (but do not remove) the four center member attachment bolts so the center member can move downward away from the frame about 20mm.



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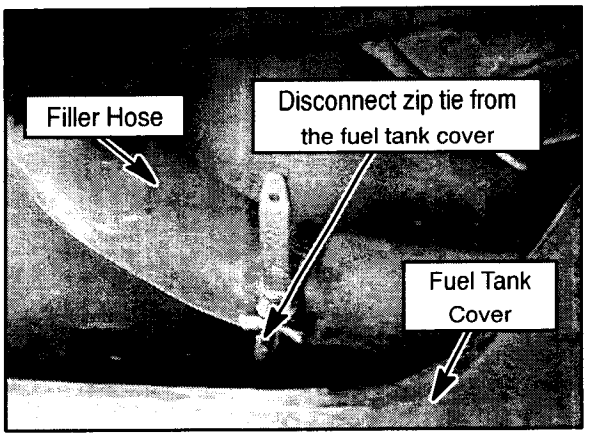
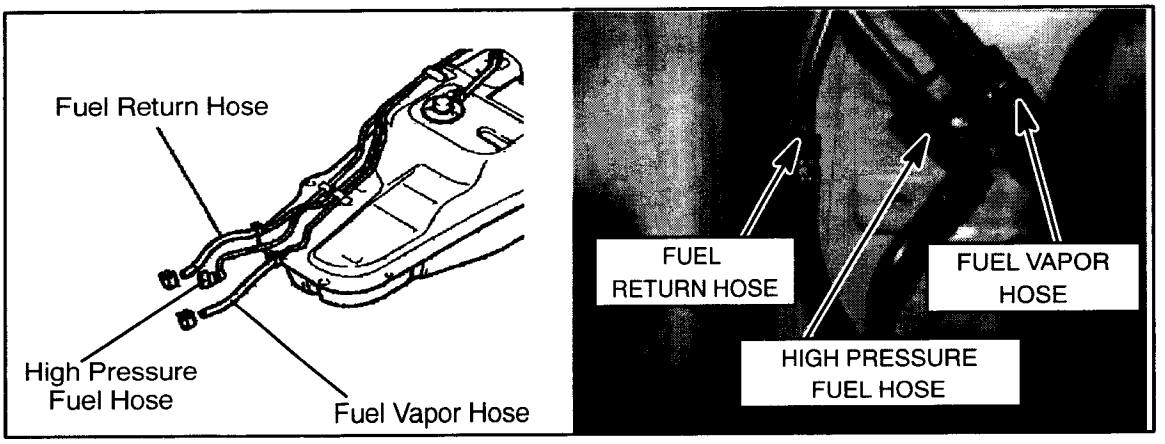
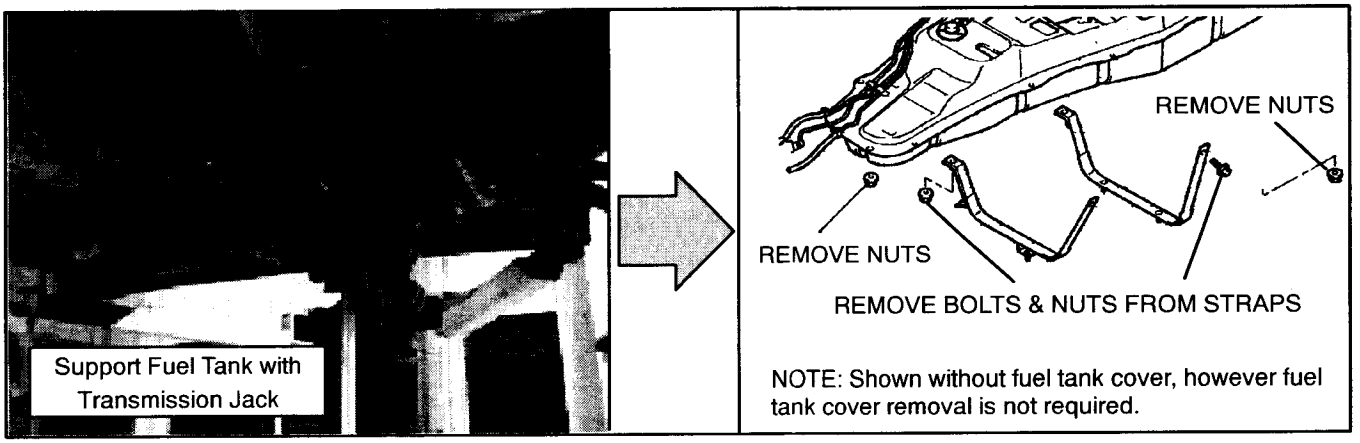


4. Detach the clip of the zip tie securing the fuel filler hose to the fuel tank cover so the hose can be moved away from the cover when the fuel tank is lowered later in these procedures.



5. Disconnect the high pressure fuel hose, fuel return hose, and fuel vapor hose where they connect to fittings on the underside of the vehicle at the front of the fuel tank.

⚠ CAUTION **Be sure you have released the pressure from the high pressure fuel line before removing these hoses. See Step B.1.**



6. With the fuel tank supported by a transmission jack, remove the four fuel tank attachment nuts (two at the front of the tank and two at the rear) and the bolt and nut from each of the two fuel tank support straps.

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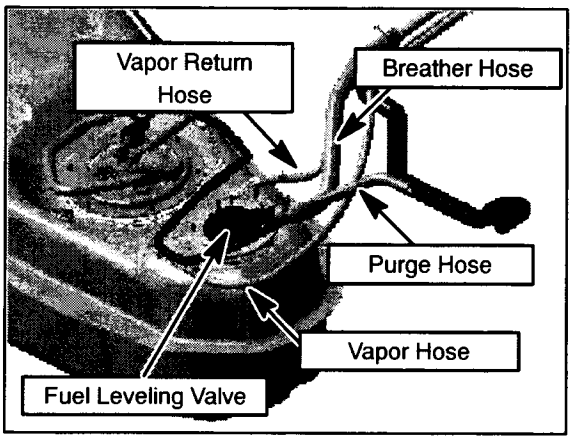
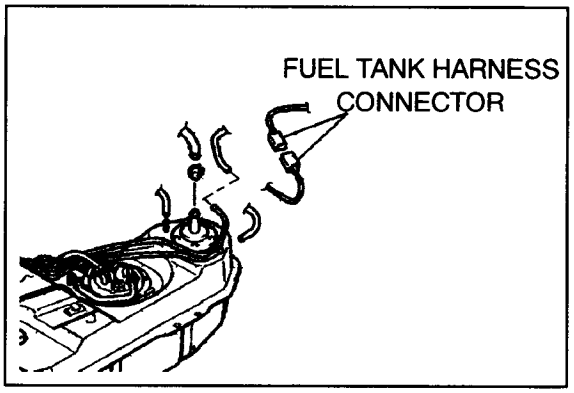
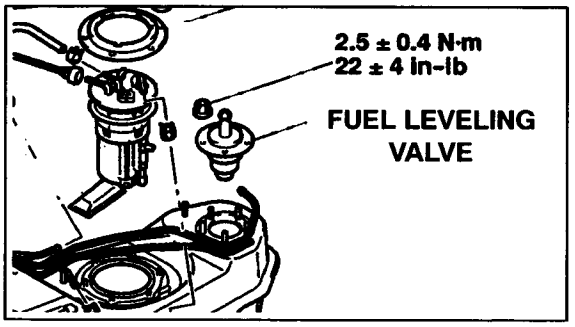


7. Lower the fuel tank downward about 50mm, then disconnect the vapor return hose, the vapor hose, and the purge hose at the fuel tank. Then, disconnect the breather hose from the fuel leveling valve.

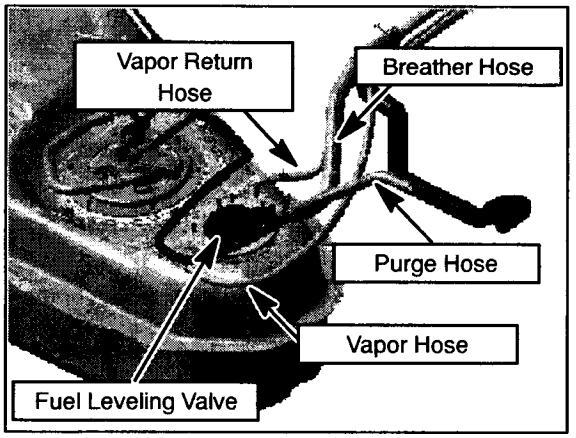


8. Disconnect the fuel tank harness connector or move it away from the fuel leveling valve.



9. Remove the five leveling valve mounting nuts, then remove the leveling valve from the tank. Install the new fuel leveling valve into the fuel tank. Install and tighten the five nuts to 22 ± 4 in-lb (2.5 ± 0.4 Nm).

⚠ CAUTION **Be careful that the leveling valve gasket is not damaged during installation of the new leveling valve.**



10. Connect the vapor hose, the vapor return hose, and the purge hose at the fuel tank. Then reconnect the breather hose to the new leveling valve.

NOTE: Connect the purge hose before connecting the breather hose to the leveling valve.

IMPORTANT: If any of the hoses removed during this repair are damaged, replace with a new hose, referring to CAPS for part numbers.

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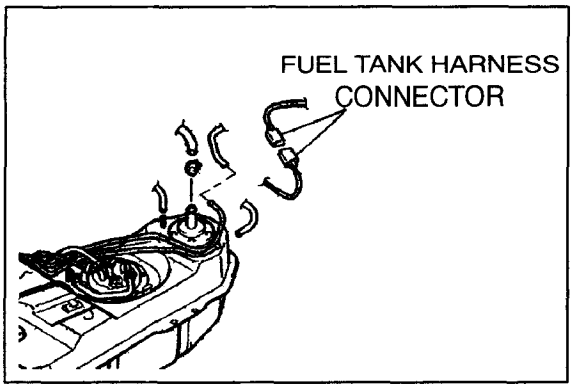
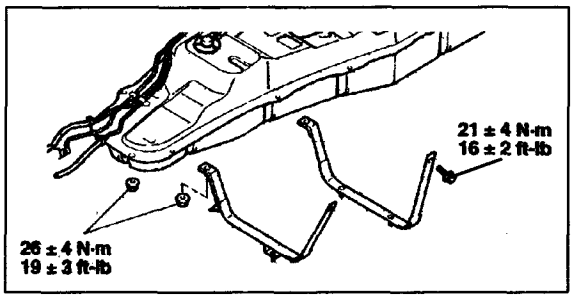
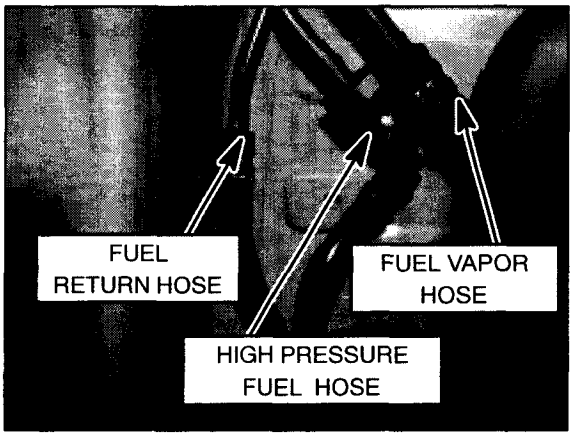


11. If you disconnected the fuel tank harness connector in Step B.8, reconnect it. If you only moved the connector, move it back to its original position.

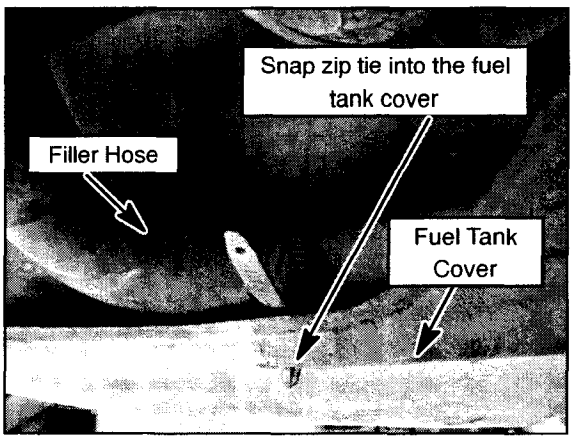


12. Reposition the fuel tank, then reinstall the four fuel tank securing nuts and the fuel tank strap attaching bolts and nuts. Tighten to the proper torque value.

Torque values:
Nuts = 19 ± 3 ft-lb (26 ± 4 Nm)
Bolts = 16 ± 2 ft-lb (21 ± 4 Nm)



13. Reconnect the high pressure fuel hose, the fuel return hose, and the fuel vapor hose to their respective fittings on the underside of the vehicle at the front of the fuel tank.



14. Move the fuel filler hose downward and insert the clip on the fuel filler hose securing zip tie into the fuel tank cover, snapping it securely into position.

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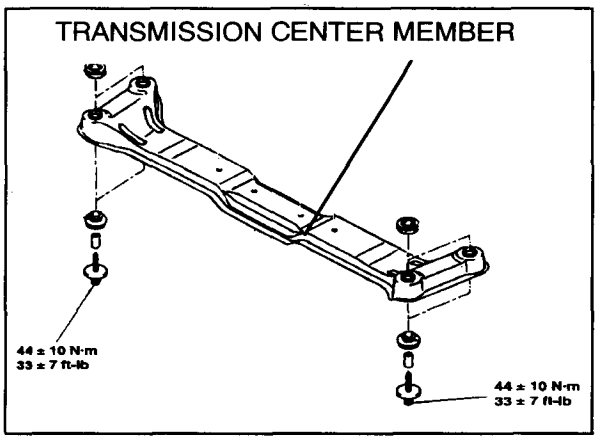
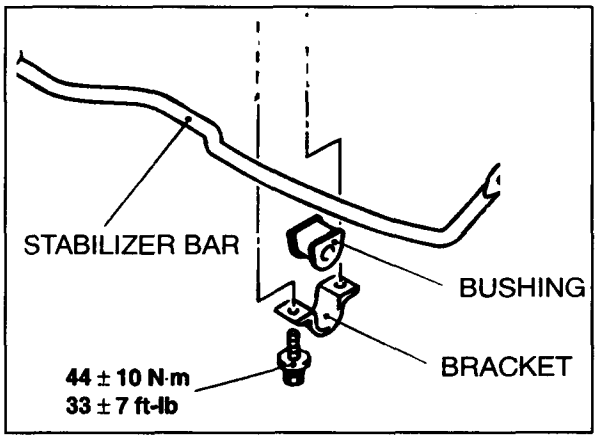


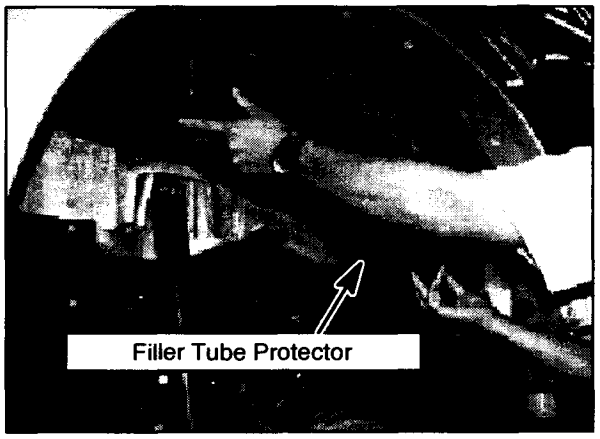
15. Move the transmission center member upward into its original position and tighten the mounting bolts to 33 ± 7 ft-lb (44 ± 10 Nm).



16. Move the stabilizer bar upward into its normally installed position, then install the stabilizer bar bushings, brackets, and bolts. Tighten the bracket bolts to 33 ± 7 ft-lb (44 ± 10 Nm).

    Proceed with section **C. Fuel Filler Check Valve Replacement**.

C. Fuel Filler Check Valve Replacement



1. Remove the fuel tank filler tube protector.

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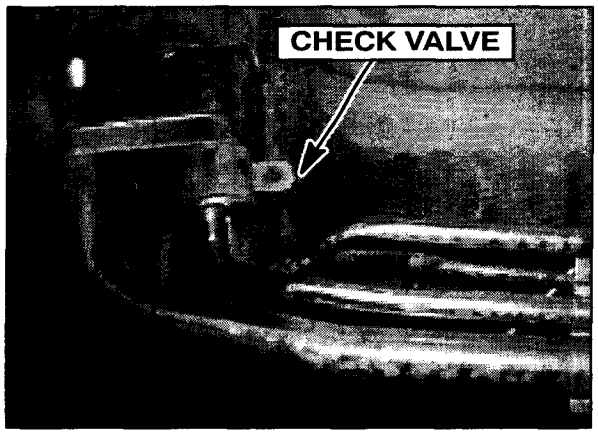
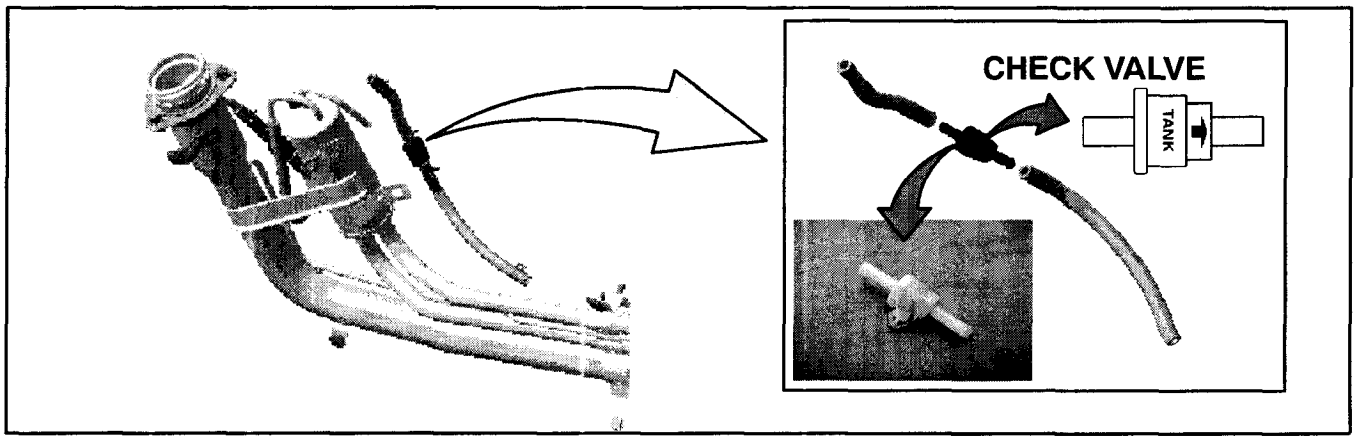


2. Remove the old fuel filler check valve.



3. Install the new fuel filler check valve. Make sure the check valve is installed so that the arrow embossed on the check valve is pointing downward in the direction of the fuel tank as shown.

4. Reinstall the filler tube protector.

5. Disconnect the Miller Tool from the canister purge port, then remove the damper used to block the canister vent port in Step A.6. Reconnect the canister purge hose and vent hose.

   IMPORTANT: If any of the hoses removed during this repair are damaged, replace with a new hose, referring to CAPS for part numbers.

6. Reinstall the right side rear wheel.

7. Reinstall the fuel pump relay(s).

Proceed with section **D. Fuel/Vapor Leakage Check**

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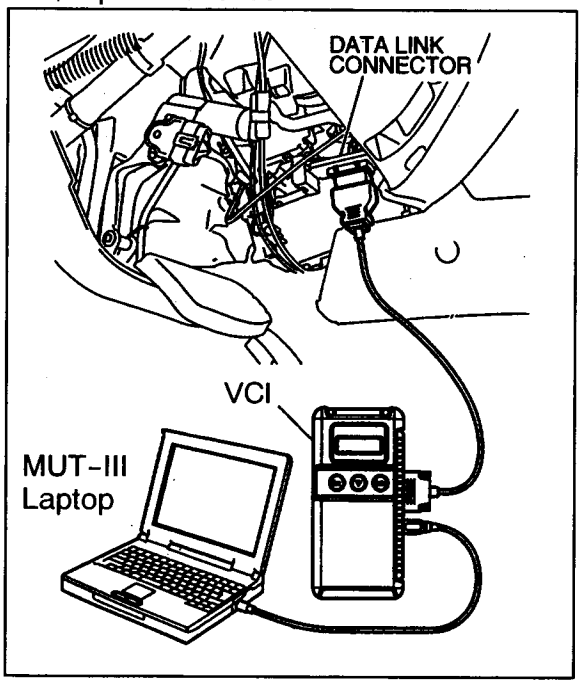
D. Fuel/Vapor Leakage Check

After completing the fuel leveling valve and filler tube check valve replacement, perform the following fuel/vapor leak check.



1. If any fuel was drained from the tank, replace it.
2. Connect the MUT-III scan tool.
3. Start the engine and let the engine run at idle while checking for fuel leaks. If there are any leaks, repair as necessary.
4. Using the MUT-III, run the Evap Leak Monitor. Then check for DTCs and provisional DTCs. If the monitor runs successfully and no DTCs are detected, repairs are complete. If any DTC is detected, refer to Section 13A in the service manual to diagnose the indicated DTC.

PARTS INFORMATION

A small supply of fuel tank leveling valves and fuel filler tube check valves will be automatically shipped to all dealers. Orders for additional parts can be placed through the normal parts system.

Use the genuine Mitsubishi Parts listed below.

Description	Part Number
Fuel Tank Leveling Valve	1785A010
Fuel Filler Tube Check Valve	1755A012

Canister Replacement

NOTE: There should be very few cases (less than 1% of the total number of affected vehicles) where the evaporative emission canister will require replacement.

The canister has a manual allocation code because replacement requires prior approval from Techline. If you determine that the canister requires replacement, you must call Techline for canister replacement authorization before ordering the canister. Refer to CAPS for the canister part number.

Continued

WARRANTY INFORMATION

Claims for this campaign must be entered as Recall type "C" claims. Check the repair process(es) performed. You may only claim the repairs actually made associated with the specific vehicle condition found. Sample claim screens are shown on the next pages.

Fuel Leveling Valve and Fuel Filler Check Valve Replacement

Campaign Labor Operation No. C0408WXX *Time Allowance:* 2.0 hrs.

Fuel Leveling Valve, Fuel Filler Check Valve, and Evap. Emission Canister Replacement

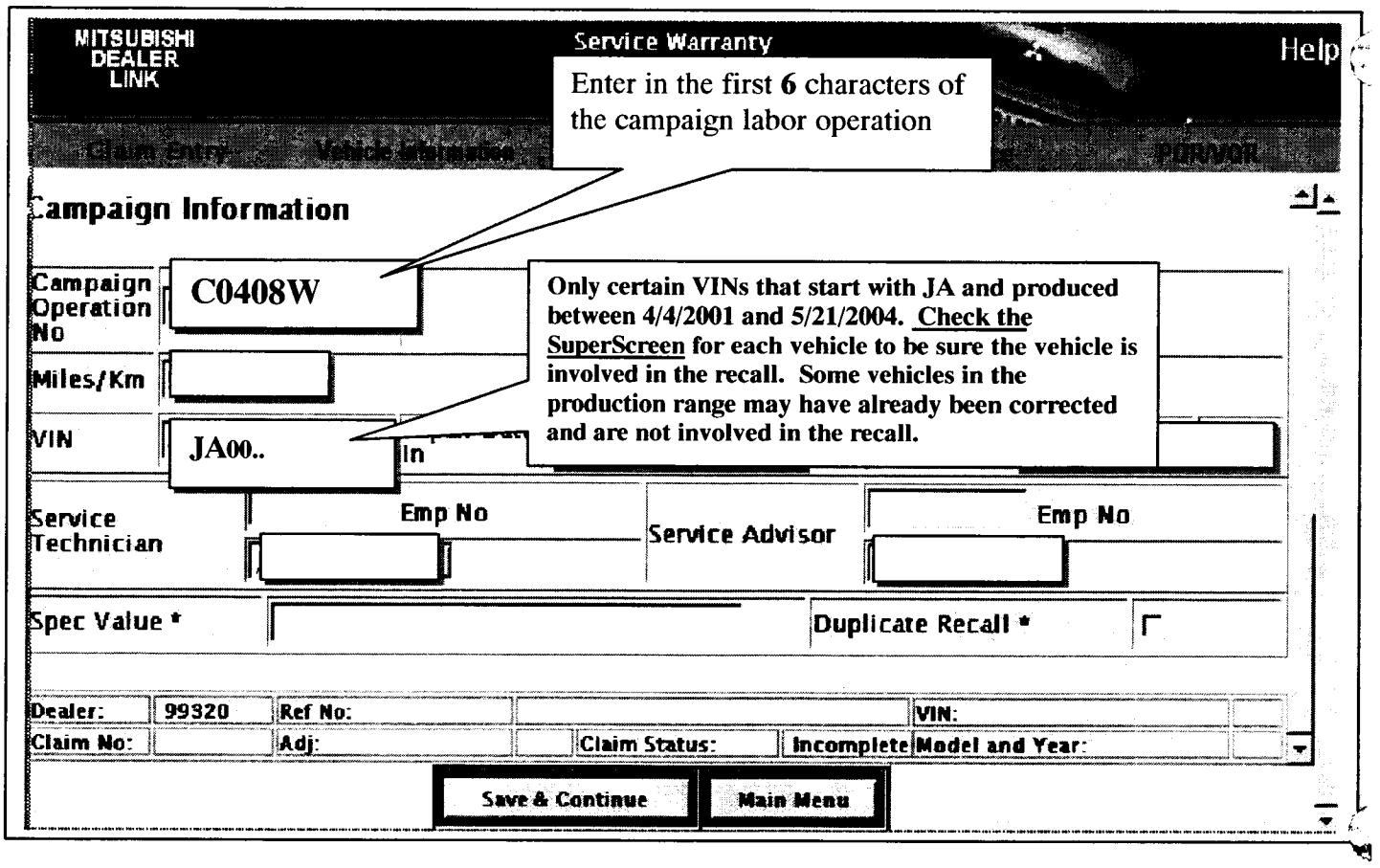
Campaign Labor Operation No. C0408WXX *Time Allowance:* 5.5 hrs.

- Canister replacement will be necessary on very rare occasions
- Retain all replaced parts for at least 30 days after the end-of-month paid claim statement date.
- If the canister requires replacement, be sure to call Techline for authorization before ordering the part. If the vehicle will be down while waiting for the part to arrive, please provide the customer with a rental/loaner vehicle. Since this recall pertains to the Montero, please make sure that the customer is provided with a similar level vehicle.

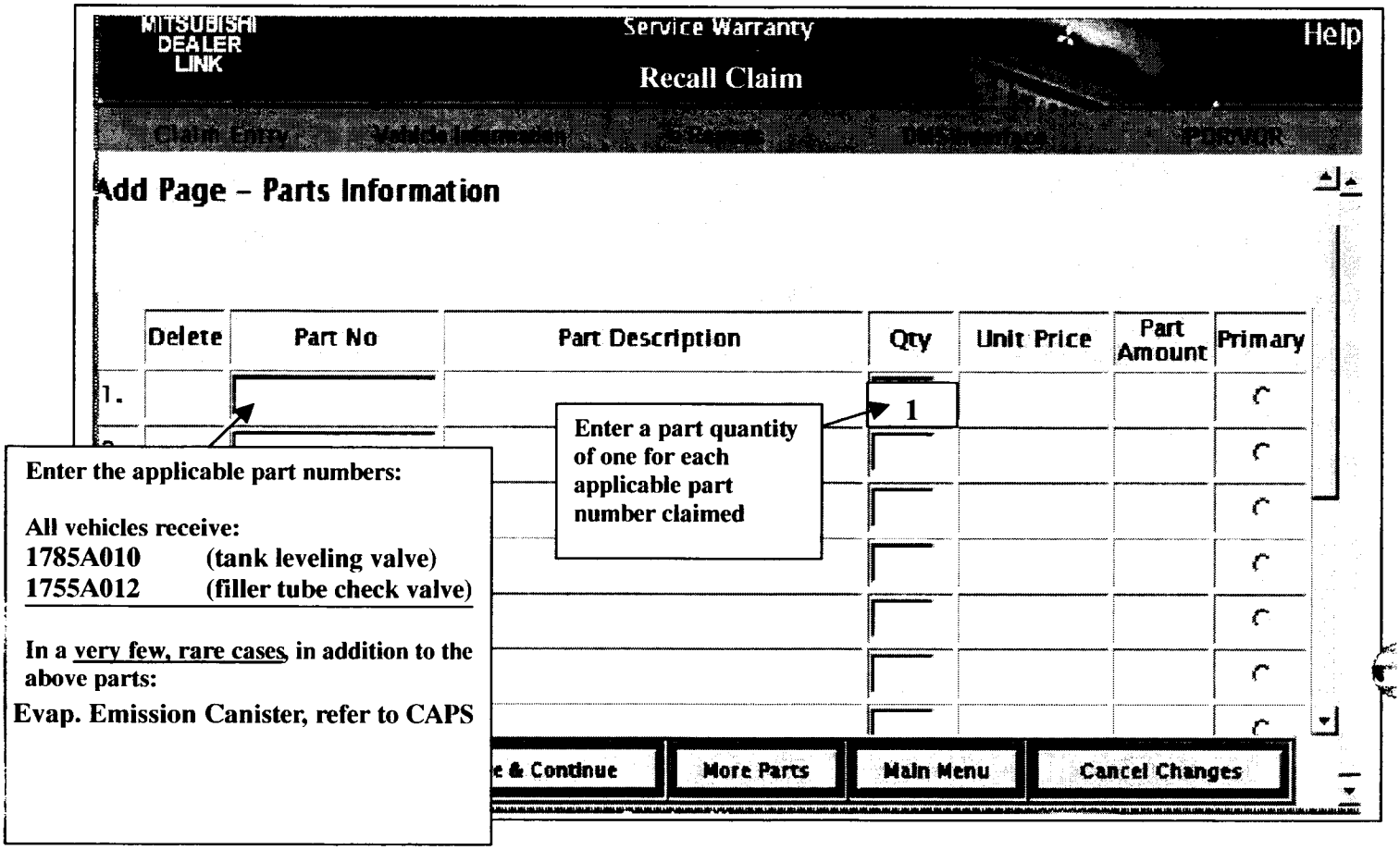
  Reimbursement for the rental/loaner can be submitted on the same recall claim.

WEB BASED CLAIM SYSTEM – RECALL CLAIM SCREENS

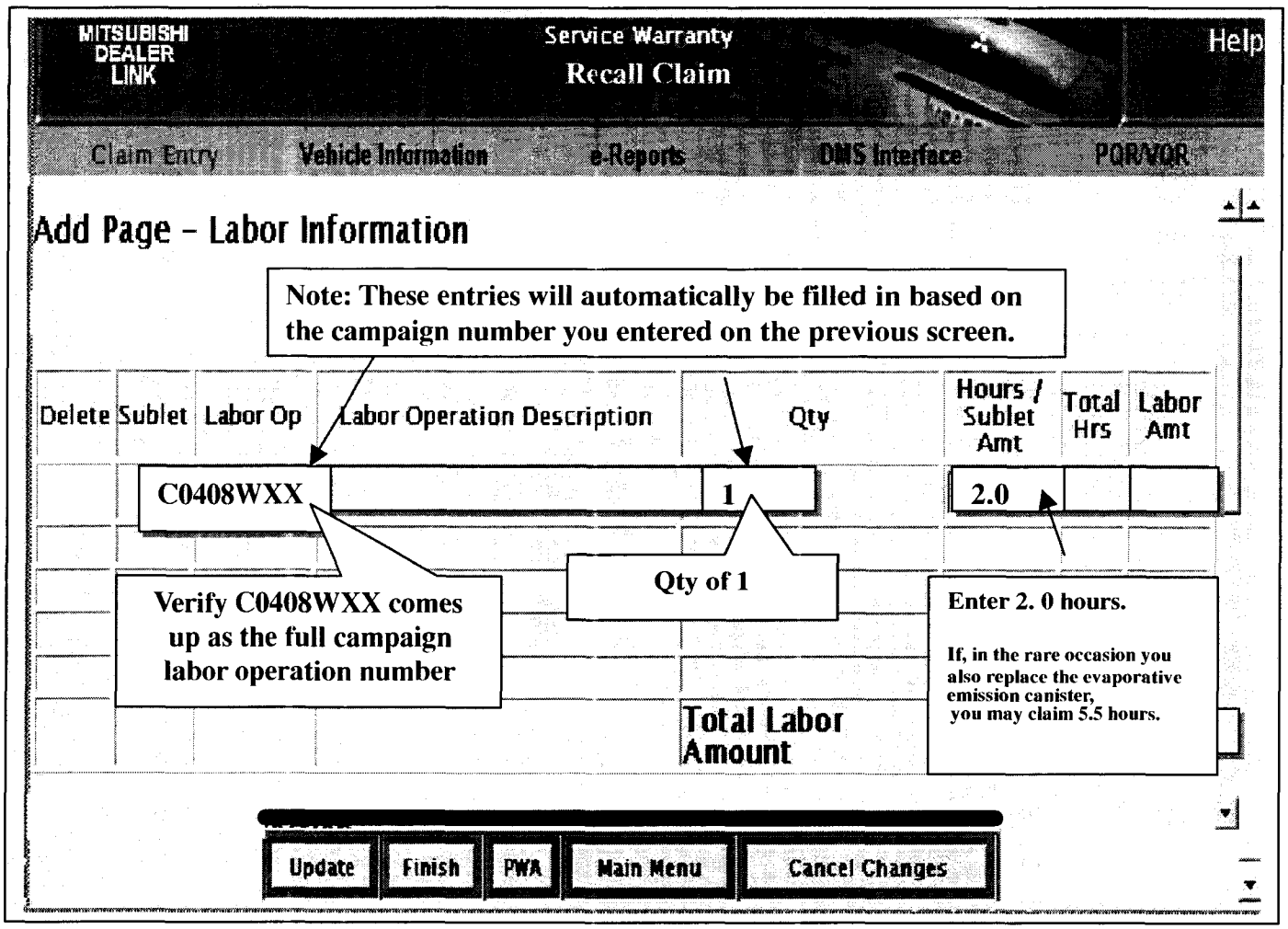
Header Section



Parts Section



Labor Section



MITSUBISHI
MOTORS NORTH AMERICA, Inc.

[redacted]

Date: August 2004

RE: IMPORTANT SAFETY RECALL NOTIFICATION: SR-04-008

Dear Mitsubishi Owner,

This notice is sent to you in accordance with the requirements of the National Traffic and Motor V[illegible]ety Act.

Reason For Notice: Mitsubishi Motors North America, Inc. has decided [illegible] a defect that re[illegible]le safety exists in certain 2002-04 Montero vehicles. W[illegible]fuel [illegible]s in the full co[illegible] and the vehicle is parked forward on an upward slo[illegible] fuel t[illegible]level [illegible]valve m[illegible]t maintain proper sealing in the event the fuel expands f[illegible]m th[illegible]e in am[illegible]t temp[illegible]he fuel-leveling valve does not seal properly, gasoline [illegible]k on[illegible]d. Gasolin[illegible]the presence of an ignition source may result in a fire.

What you should do: Please conta[illegible]Autho[illegible]ubis[illegible]aler to schedule a repair date. When you bring your vehicle in, sho[illegible]er. If yo[illegible]splac[illegible]this letter, they will still make the repair, free of [illegible]) To simp[illegible]ep[illegible]eas[illegible]liver your vehicle to your dealership with less than ½ tank of [illegible].

What your d[illegible]o: T[illegible]eal[illegible]replace the fuel leveling valve and the fuel filler tube check valve. The de[illegible]p will a[illegible]o inspect the fuel vapor canister, replacing it if necessary.

How long w[illegible]e? Th[illegible]e needed for the actual repair is approximately 2 hours if the canister does not require replacement. If canister must be replaced, additional time will be needed. The dealer may need your vehicle for a longer period of time due to service scheduling issues, but every effort will be made to minimize your inconvenience.

If you have any trouble having your vehicle repaired promptly and at no charge, please inform us by calling:
Mitsubishi Customer Relations Department **888-MITSU-2004 (888-648-7820)**
Hours: Monday – Saturday 7 a.m. to 10 p.m. (Central Standard Time)

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

If you have already encountered a problem regarding the above and have paid for the repair, you may send your original receipts and/or other adequate proof of payment to the following address for reimbursement:
Mitsubishi Customer Relations Department, P.O. Box 6400, Cypress, CA 90630-0064

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. Further, 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.

We appreciate your prompt attention to this matter and apologize for any inconvenience. If you have any questions, please contact your Mitsubishi Dealer.

Sincerely,

Chuck Halper
Director of Service

C0408WXX