MITSUBISHI MOTORS

MEDIC UPDATE
SAFETY RECALL BULLETIN

SUBJECT:			No: SR-08-005
FUEL TANK BRACKET SAFETY RECALL			DATE: **September, 2008**
			MODEL: **See Below**
CIRCULATE TO:	[ ] GENERAL MANAGER	[**X**] PARTS MANAGER	[**X**] TECHNICIAN
[**X**] SERVICE ADVISOR	[**X**] SERVICE MANAGER	[**X**] WARRANTY PROCESSOR	[**X**] SALES MANAGER

PURPOSE

Some affected vehicles may have a left (driver's side) rear fuel tank support bracket that was formed with a weak spot in the material. In some cases, the material of the bracket has cracked. In a severe collision, the bracket could break and allow the fuel tank to drop down, possibly causing a fuel leak.

This Recall Campaign Bulletin provides instructions for inspection of the left rear fuel tank support bracket, and if necessary, installation of a reinforcement cap to strengthen the bracket.

AFFECTED VEHICLE(S)

- 2006 - 2007 Eclipse
- 2005 - 2007 Galant
- 2005 - 2007 Endeavor
- 2007 Eclipse Spyder

Affected vehicles produced between 3/17/2005 and 2/21/2007

IMPORTANT

Affected new or used inventory vehicles must be inspected, and repaired if necessary, before the vehicle is sold. Dealers must check their inventory vehicles' VINs on the Warranty Super Screen to verify whether the vehicle is involved in this recall campaign. Please contact owners of recently sold VINs to bring their vehicle to the dealership for this procedure.

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 have the left rear fuel tank support bracket inspected, and reinforced if necessary. When scheduling, remind the customer to present the vehicle with 1/4 of a tank of fuel or less and to clear the back seat of any personal items. A copy of the customer notification letter appears later in this bulletin.

PARTS AND EQUIPMENT

Each dealer will be shipped an initial quantity of parts based on shipment of Affected Vehicles. Refer to the PARTS INFORMATION section later in this bulletin for additional information regarding parts. Dealers will also be supplied one APGUN50004 - 3M EPX Plus-II Applicator for applying adhesive when repairs are required. Two copies of an "Inspection Criteria for Bracket Necking" job aid are included in this mailing.

REQUIRED OPERATIONS

Before starting this recall campaign procedure, CHECK 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.

Following the instructions in this recall bulletin, inspect the left rear fuel tank bracket for signs of weakening of the material. If necessary, install a reinforcement cap provided in the repair kit.

Continued

INSPECTION PROCEDURE

The following equipment is required to complete the inspection.

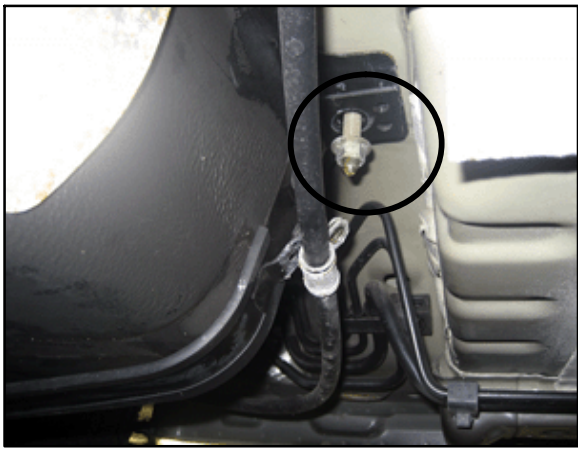
- Extendable and flexible mirror.
- Flashlight

1. Raise the vehicle on a lift.

2. Locate the front and rear mounting brackets for the left (driver's) side fuel tank strap.
   (This illustration shows the rear of the left fuel tank strap, secured with a nut over the bracket and stud assembly.)

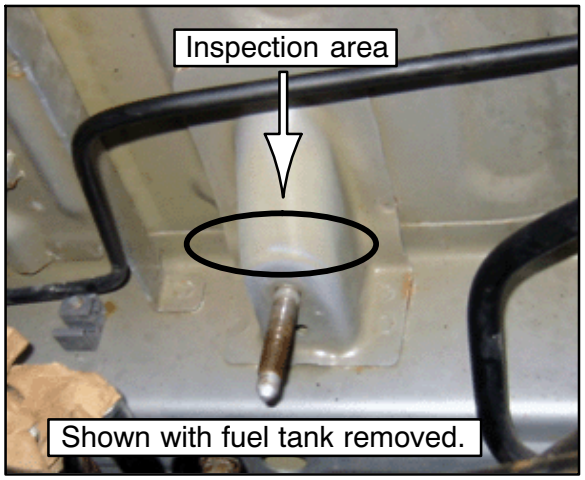
NOTE: If the vehicle has more than 1/4 tank of fuel in it, use a transmission jack to support the tank.

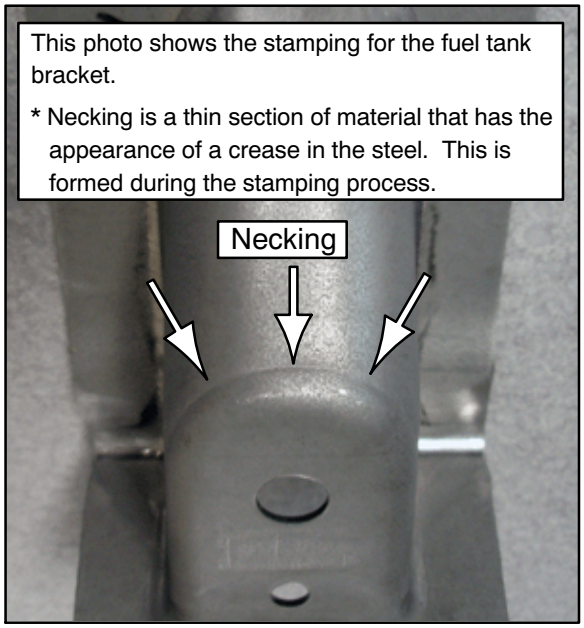
NOTE: For Endeavor, it will be necessary to remove the front fuel tank protective shields to access the front fuel tank strap nuts.



3. Spray the threads of both the front and rear fuel tank strap studs with rust penetrant to prevent stud damage, then remove the nut securing the left rear fuel tank strap to the bracket.
4. Loosen, but do not remove, the front fuel tank strap nut (see photo).
5. Remove the fuel tank strap from the rear stud so that the left rear fuel tank bracket can be easily seen.
6. Spray the bracket with non-chlorinated brake cleaner and clean all debris from the bracket using a clean rag to prepare for inspection.

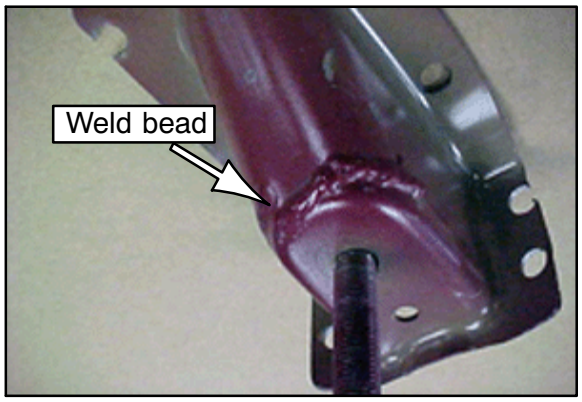
7. Carefully inspect the bracket using a mirror and flashlight. Pay close attention to the indicated area of the rear bracket for necking* or any sign of a crack.





8. Compare the on-vehicle condition with the photos that follow and the "Inspection Criteria for Bracket Necking" job aid.

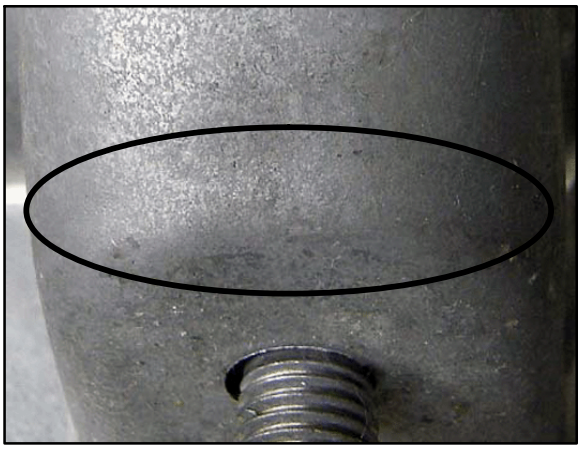
Inspection Result



EVIDENCE OF WELDING OR NO NECKING VISIBLE

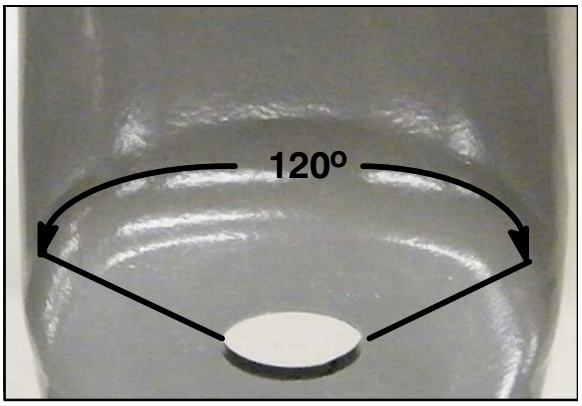
a. If there is no sign of necking in the inspection area, or if a bead of welding is seen across the surface of the bracket, no repairs are required. Reattach the tank strap and retorque the nuts to 26 - 31 Nm (19 - 22 ft-lbs). Reassemble the tank strap, lower the vehicle, and return the vehicle to the customer.

If necking is present, refer to the following photos and descriptions to determine the severity of necking and whether repairs are necessary.



LIGHT NECKING

b. If necking is light (almost no crease visible or not continuous along the radius of the part.), **no repairs are required.** Reassemble the tank strap and retorque the nuts to 26 - 31Nm (19 - 22 ft--lbs). Lower the vehicle and return it to the customer.



MEDIUM NECKING

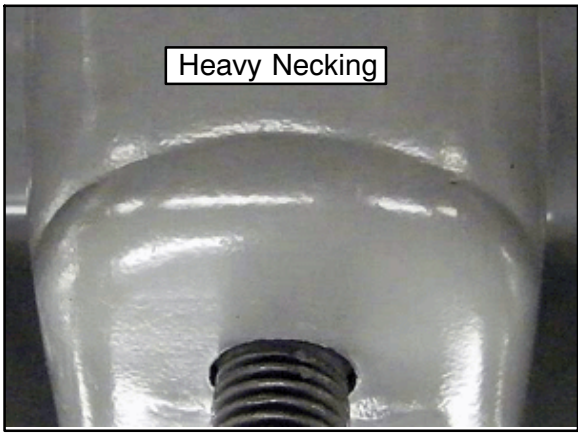
c. If necking is medium, determine if it exceeds 120º as shown in the photo.

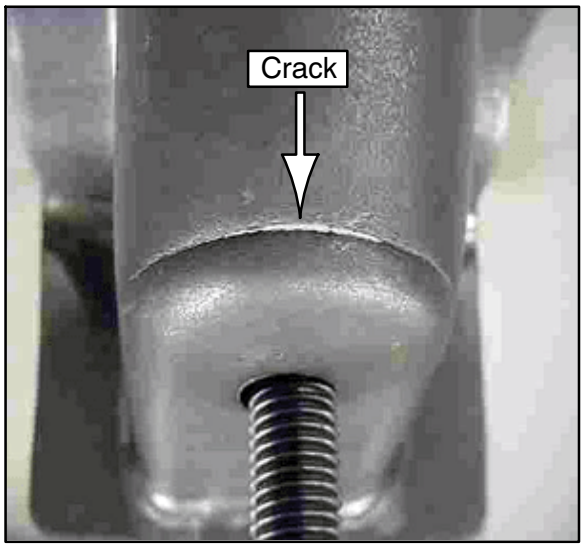
(1) If medium necking is less than 120º, **no repairs are required.** Reassemble the tank strap and retorque the nuts to 26 - 31Nm (19 - 22 ft-lbs). Lower the vehicle and return it to the customer.

(2) If medium necking is 120º or greater, lower the vehicle and proceed to the repair procedure.

HEAVY NECKING OR VISIBLE CRACK

d. If necking is heavy or if there is a crack with a visible gap, lower the vehicle and proceed to the Repair Procedure.





REPAIR PROCEDURE

Remove the Fuel Tank

NOTE: The fuel tank removal process described is generic to all models. For details about the model you are working on, refer to the FUEL SUPPLY section under Group 13 -FUEL of the applicable service manual for the specific model.

1. If the fuel tank is more than 1/4 full, remove as much fuel as possible, storing it in clean containers approved for gasoline storage. You will return this fuel to the vehicle when repairs are complete.
2. Reduce fuel pressure (refer to Group 13A - FUEL, On Vehicle Service).
3. Remove the rear seat cushions and gain access to the service hole(s) by removing the cover(s).
   a. For Endeavor, the carpet is partially cut at the service hole locations. Use a knife to complete the cuts to gain access to the service holes.
4. Disconnect the fuel pump electrical connector
5. Disconnect the fuel tank differential pressure sensor.
6. Disconnect both of the fuel level sending unit connectors (main and sub).

⚠ CAUTION **Take steps to prevent the vehicle from rolling during step 7.**

7. For Endeavor AWD, turn the ignition key to the “ON” position, place the shift lever in ’N’ (Neutral) and release the parking brake. Turn the key to the ACC. position, turn off all accessories (fans, radio, etc.).
8. Raise the vehicle.
9. Remove the center exhaust pipe.
10. For Endeavor AWD only, perform the following steps:
    a. Remove the propeller shaft from the differential.
    b. Remove the nuts securing the rear propeller shaft support bearing.
    c. Place the propeller shaft as far to one side as possible and secure it to the lift assembly using a strap.
11. Remove the parking brake cable clamps.
12. Disconnect the fuel tank vapor hoses.
13. Disconnect the fuel filler hose.
14. Disconnect the high pressure fuel hose.
15. Remove the fuel tank support straps.
16. Using a transmission jack as support, carefully lower the fuel tank out from under the vehicle.

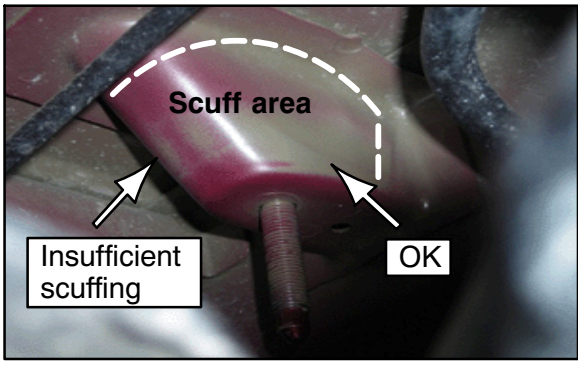
Equipment

The following parts and equipment are required to complete the Reinforcement Cap Installation.

- Part # BRACKETKIT - Cap/Adhesive Kit
- Drill with 3/16” drill bit
- Arrow Model RH200S, Rivet Tool (or equivalent)
- Torque wrench with 14mm socket.
- 3M EPX Plus-II Adhesive Applicator.
- Scotch-weld DP805

Reinforcement Cap Installation

⚠ CAUTION **There are several operations in the Reinforcement Cap Installation procedure where safety glasses should be worn.**



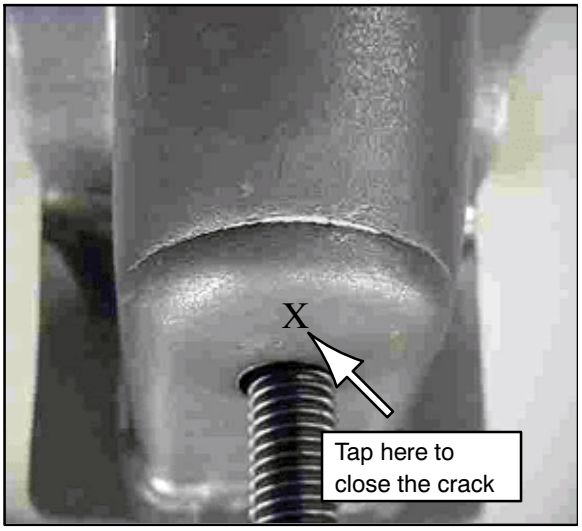
READ THROUGH THE FOLLOWING PROCEDURE PRIOR TO INSTALLING THE REINFORCEMENT CAP.

1. Clean the stud and left rear support bracket of residual spray lubricant using non-chlorinated brake cleaner.
2. Using the Scotch-brite® pad included in the repair kit, scuff the entire surface of the left fuel tank support bracket to remove paint overspray just until the green primer (e-coat) is dull.

!! IMPORTANT !!

Take care to prevent exposing the bare metal of the bracket.

3. Using the Scotch-brite® pad included in the repair kit, scuff the entire surface on the **INSIDE** of the reinforcement cap to provide a good adhesion surface.



!!CAUTION!! WEAR SAFETY GLASSES

NOTE: If the bracket has a crack with a gap greater than 0.3 mm (0.012”) use a long drift to tap the surface of the bracket upwards until the gap is closed. The lower surface of the bracket MUST remain flat.

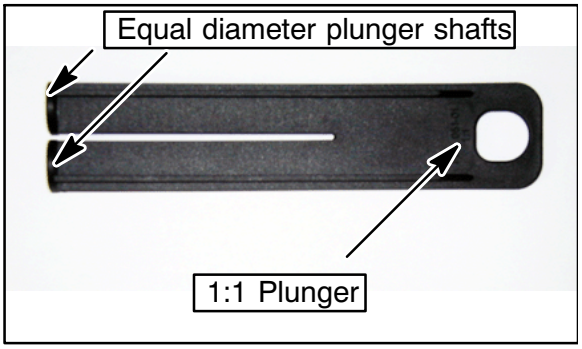
CAUTION: Do not distort the bracket.

!!CAUTION!! WEAR SAFETY GLASSES

4. Place the reinforcement cap from the repair kit over the bracket's stud and secure it in position using the tank strap nut.
5. Using the hole in the cap as a guide, drill a 3/16" hole perpendicular (90° angle) to the surface of the bracket through the bracket only. Refer to the photo for the angle of drilling.

!!! CAUTION !!! DO NOT drill through the floor pan. Drill through the bracket only,

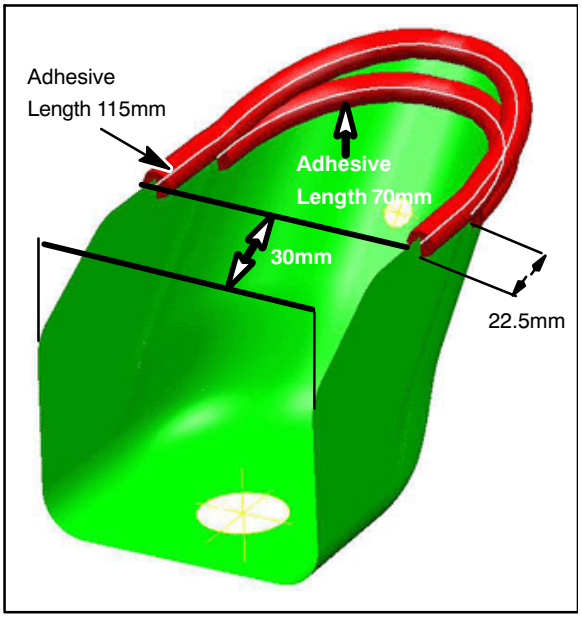
6. Remove the nut and remove the cap.
7. Wipe both scuffed surfaces, inside the cap and outside the bracket, with isopropyl alcohol to clean them. This will ensure good adhesion.



NOTE: The applicator is packaged with 2 plungers. **Use the 1:1 plunger**. Discard the 2:1 plunger.

8. Assemble the applicator gun using the plunger marked as 1:1 (both shafts of the plunger are equal diameter). **Do not cut the end of the tube**.
9. Have the rivet and rivet tool ready for prompt setting of the supplied rivet.

!!! IMPORTANT !!!! ADHESIVE WORKING TIME IS LESS THAN 4 MINUTES!



10. Refer to the Parts Information section of this bulletin and check the date code of the adhesive being used. **DO NOT USE OUTDATED ADHESIVE.**
11. Load the adhesive (3M DP805) into the applicator gun and attach the mixing tube from the kit to the adhesive container per the 3M instructions. **Do not cut the end of the tube**.
12. Apply 2 beads of adhesive to the inside surface of the reinforcement cap exactly as shown in the illustration.

- The bead along the inside top edge of the reinforcement cap starts at a point 30mm from the open end of the reinforcement cap on one side and ends at the same point on the opposite side.
- The second bead is shorter and is positioned below the top bead. It starts 22.5mm from the beginning of the top bead and ends at the same point on the opposite side of the reinforcement cap.

13. *IMMEDIATELY p*lace the reinforcement cap onto the bracket. Do not allow adhesive to get on the stud.

⚠ CAUTION **If adhesive gets on the stud, remove it immediately using isopropyl alcohol.**

14. *IMMEDIATELY* place the rivet through the hole in the cap and bracket to avoid the adhesive hardening in the hole. Do not set it at this time. While pressing the cap towards the rear of the vehicle, torque the nut to hold the cap in position during the rivet installation and to maintain cap alignment during initial adhesive curing. Torque to 26 - 31 Nm (19 - 22 ft-lbs).

!!CAUTION!! WEAR SAFETY GLASSES

15. Using the rivet tool, set the rivet.
16. Remove the mixing tube from the adhesive container and discard it. Replace the cap on the unused portion of the adhesive and store in a cool location (60°F/15°C).

!!! IMPORTANT !!! Do not remove the nut at this time. The adhesive must have 30 minutes to cure initially before the nut is removed. Reinstall the fuel tank while the adhesive sets. Securing the strap with this nut will be the last step in that process.

Fuel Tank Installation

NOTE: The fuel tank installation process described is generic to all models. For details about the model you are working on, refer to the FUEL SUPPLY section under Group 13 -FUEL of the applicable service manual for the specific model.

1. Place the front of the fuel tank straps over their respective studs and start the nuts.
2. Slide the fuel tank back into position and attach the rear of the right fuel tank strap over its stud. Leave the rear of the left tank strap loose at this time. Support the tank with a transmission jack.
3. For Endeavor - Torque the 3 tank strap nuts to 26 - 31 Nm (19 - 22 ft-lbs).

   For all other models - Torque the right tank strap nut and the nuts holding the front of the tank to the cross member to 26 - 31 Nm (19 - 22 ft-lbs).
4. Reattach the high pressure fuel hose, the fuel filler hose, and the fuel tank vapor hoses.
5. Reposition the parking brake cables and reattach the cable clamps.
6. For Endeavor AWD, install the propeller shaft and the center exhaust pipe.
7. Remove the nut from the reinforced bracket, attach the fuel tank strap over the stud and torque the nut to 26 - 31 Nm (19 - 22 ft-lbs).
8. Lower the vehicle, place the transmission selector in P (park) and remove the key from the ignition.
9. Reattach the connectors to the fuel tank differential pressure sensor, the fuel level sending units, and the fuel pump.
10. Return the fuel removed at the start of the repair procedure to the vehicle's fuel tank.
11. Start the vehicle and check for fuel leaks from the hose connections.
12. Reinstall the covers over the service holes in the interior floor and reinstall the rear seat cushions.

!! IMPORTANT !! - Ensure that the seatbelt buckles are accessible and positioned correctly prior to securing the seat.

INSPECTION

Using the MUT-III, perform an EVAP leak test to ensure integrity of the fuel hose connections. The system must pass this test prior to the vehicle being returned to the customer.

1. Check that the fuel cap is securely closed (tighten until three clicks are heard).
2. Connect the MUT-III to the data link connector.
3. Turn the ignition switch to the ”ON” position.
4. From the MUT-III Main Menu, click on “System Select.”
5. For 2006 and later vehicles, input the applicable VIN information for your vehicle.
   For 2005 and earlier vehicles, continue to step 6.
6. Select “MFI” from the System List.
7. For 2005 models, select Mitsubishi.
   For 2006 and later models, continue to step 8.
8. Select “Diagnostic Trouble Code.” Record any DTCs. Address them at the end of the procedure.
9. Select “Erase DTCs.” This clears all completed monitors and allows the the Evap Leak Test to run.
10. Return to the MFI Menu.
    For 2006 and later models, select Special Function.
    For 2005 models, select Emissions Test.
11. Start the engine. The A/C should be OFF. Allow the engine to warm up to operating temperature.
12. Select ”Evap Leak Mon.”
13. During this test, keep the accelerator pedal at the idle position.
14. When the monitor test starts, the ”In Progress” item on MUT-III will change from ”NO” to ”YES.”
15. When the evap leak monitor test is complete, turn the ignition switch to the ”LOCK” (OFF) position, and disconnect the MUT-III.
16. Address any DTCs that set using the applicable service manual diagnostic procedures. Check all hose connections and conduct further diagnosis on those DTCs that may have been noted in step 8 above.

PARTS INFORMATION

Use the following Genuine Mitsubishi Parts kit when installing the reinforcement cap.

Part #	Description
BRACKETKIT	Cap/Adhesive Kit

- Qty 1 - Cap, bracket
- Qty 1 - Rivet, 3/16” stainless steel
- Qty 1 - Mixing tube
- Qty 1 - Scotch-brite
- Qty 1 - 3M Scotch-Weld DP805

NOTE: 3M Scotch-weld containers are date coded using either of the following coding methods.

DATE CODING FOR 3M SCOTCH WELD DP805

Example: 08123A8W

FIRST 5 DIGITS (08123) = LOT NUMBER

6TH POSITION (Letter) = Month

- A = January
- B = February
- C = March
- D = April
- E = May
- F = June
- G = July
- H = August
- I = September
- J = October
- K = November
- L = December

7TH POSITION (Number) = Year of Mfg.

- 8 = 2008
- 9 = 2009

8th POSITION (Letter) = Location ID

EXAMPLE: 8023K4

FIRST POSITION (Number) = Year of Mfg.

NEXT 3 POSITIONS (Number) = Julian Date of Mfg.

- (023) = 23rd day of the year.

LAST 2 CHARACTERS (K4) = LOT CODE

!! IMPORTANT !!

The shelf life of the 3M DP805 is 6 months from the date code when stored in an un-opened container at 60°F/15°C. Remove the mixing tube from the adhesive container and discard it. Replace the cap on the un-used portion of the adhesive and store in a cool location.

RECALL CAMPAIGN CLAIM INFORMATION

Campaign Labor Operation: C0805KXX

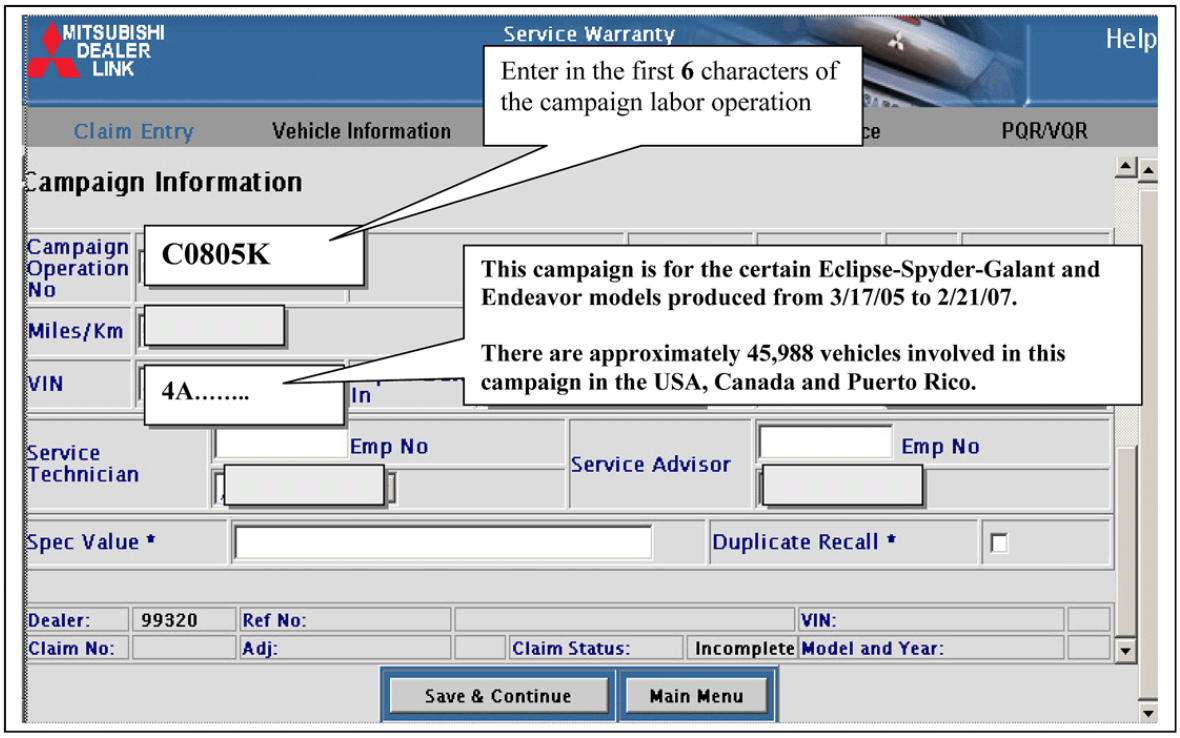
Labor Time:
0.5 hours - To Inspect
2.2 hours - For Inspection and Repair (all except Endeavor AWD)
2.9 hours - For Inspection and Repair (Endeavor AWD only)

Required Kit Part Numbers

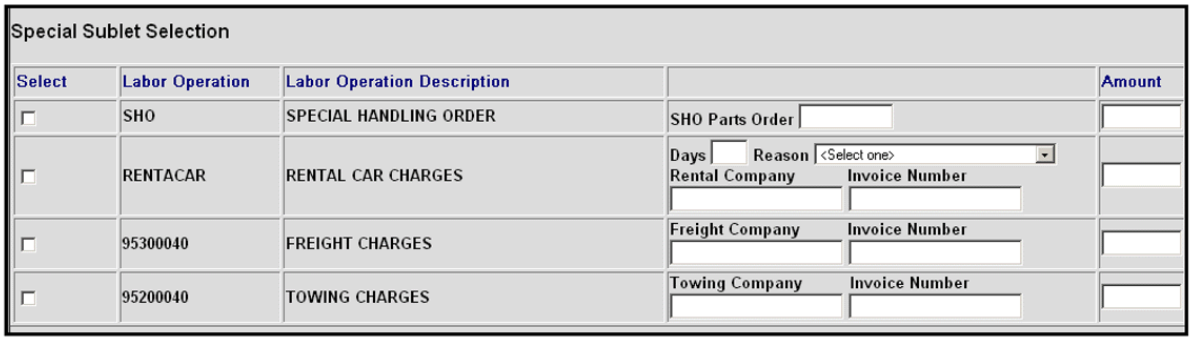
Each repair requires the use of one repair kit. Claim only part number BRACKETKIT with a quantity (QTY) of 1.

Please follow the recall claim example shown below and on the next page.

Header Section **Eclipse-Spyder-Galant-Endeavor Fuel Tank Bracket Inspection**

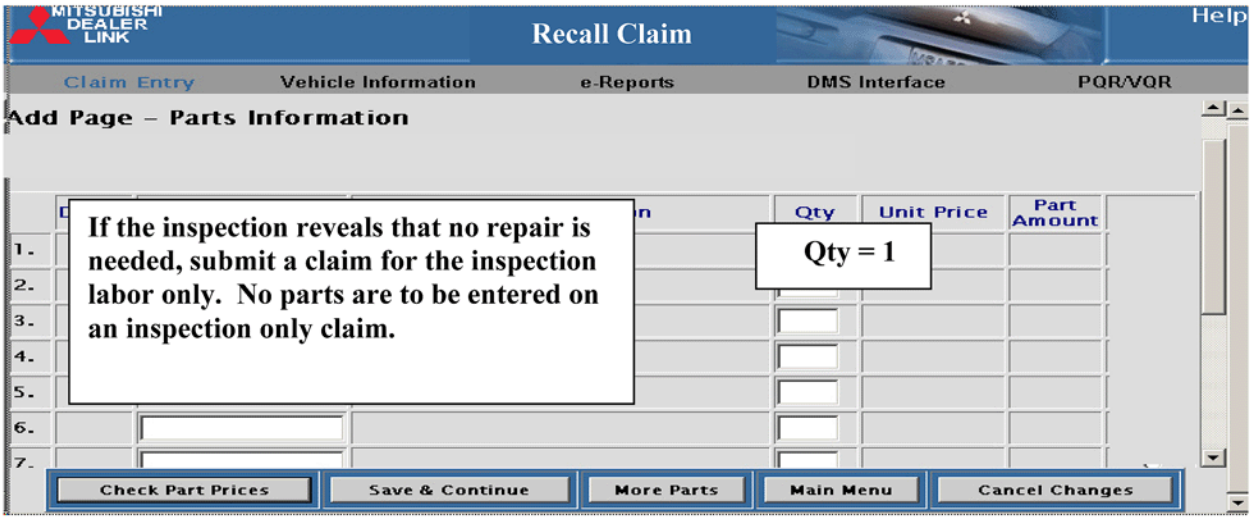


Note: In some instances, it may be necessary to arrange towing and/or to provide a temporary rental / loaner vehicle to a customer. Please use the entry fields at the bottom of the campaign claim's labor section.

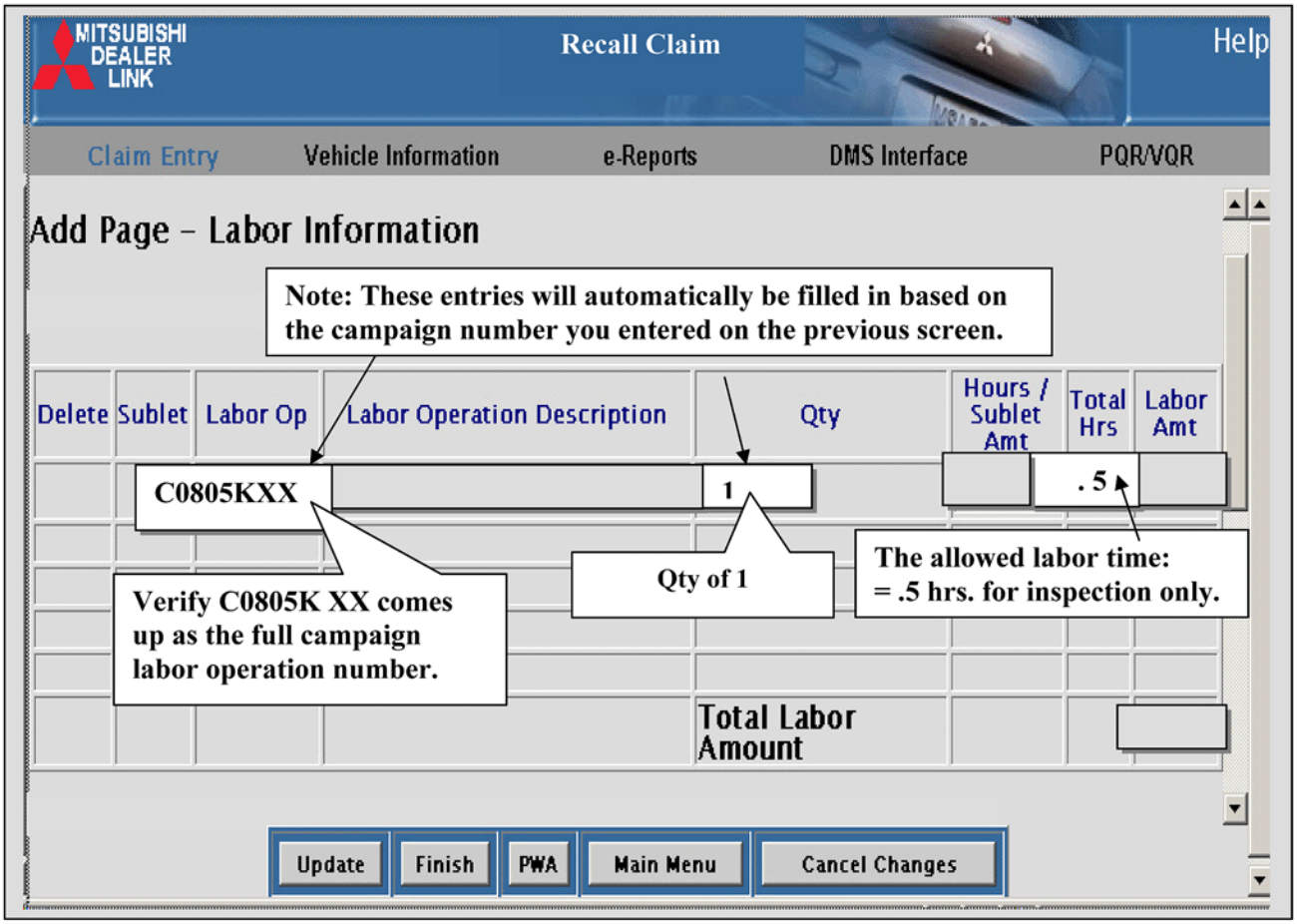


CLAIM EXAMPLE: FUEL TANK BRACKET – INSPECTION ONLY – NO REPAIRS NEEDED

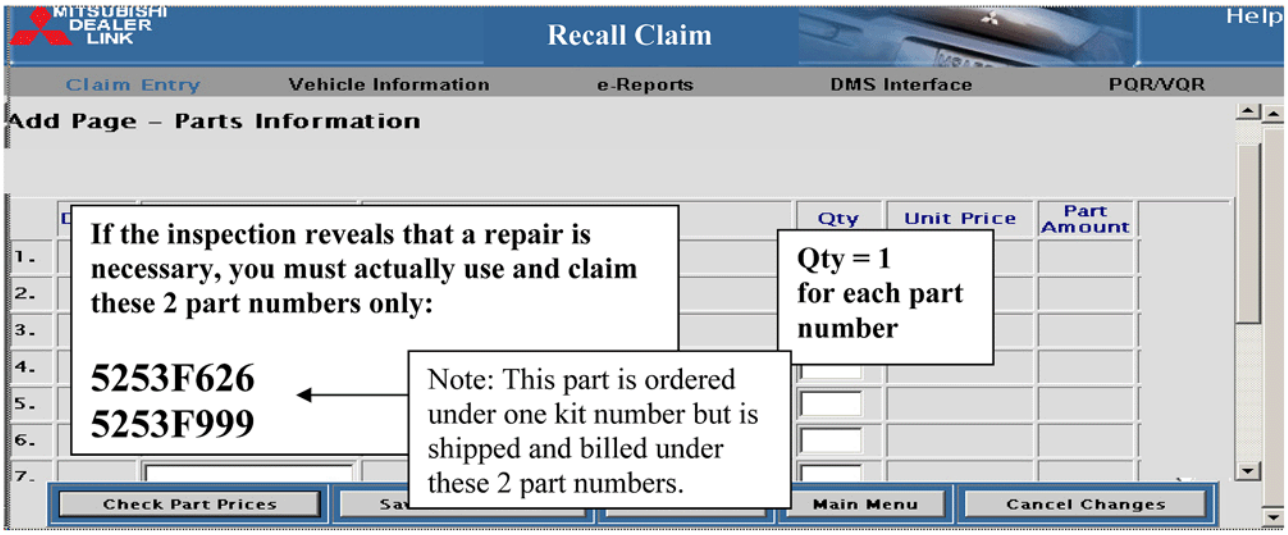
PARTS SECTION: NO PARTS CLAIMED FOR AN INSPECTION ONLY CLAIM



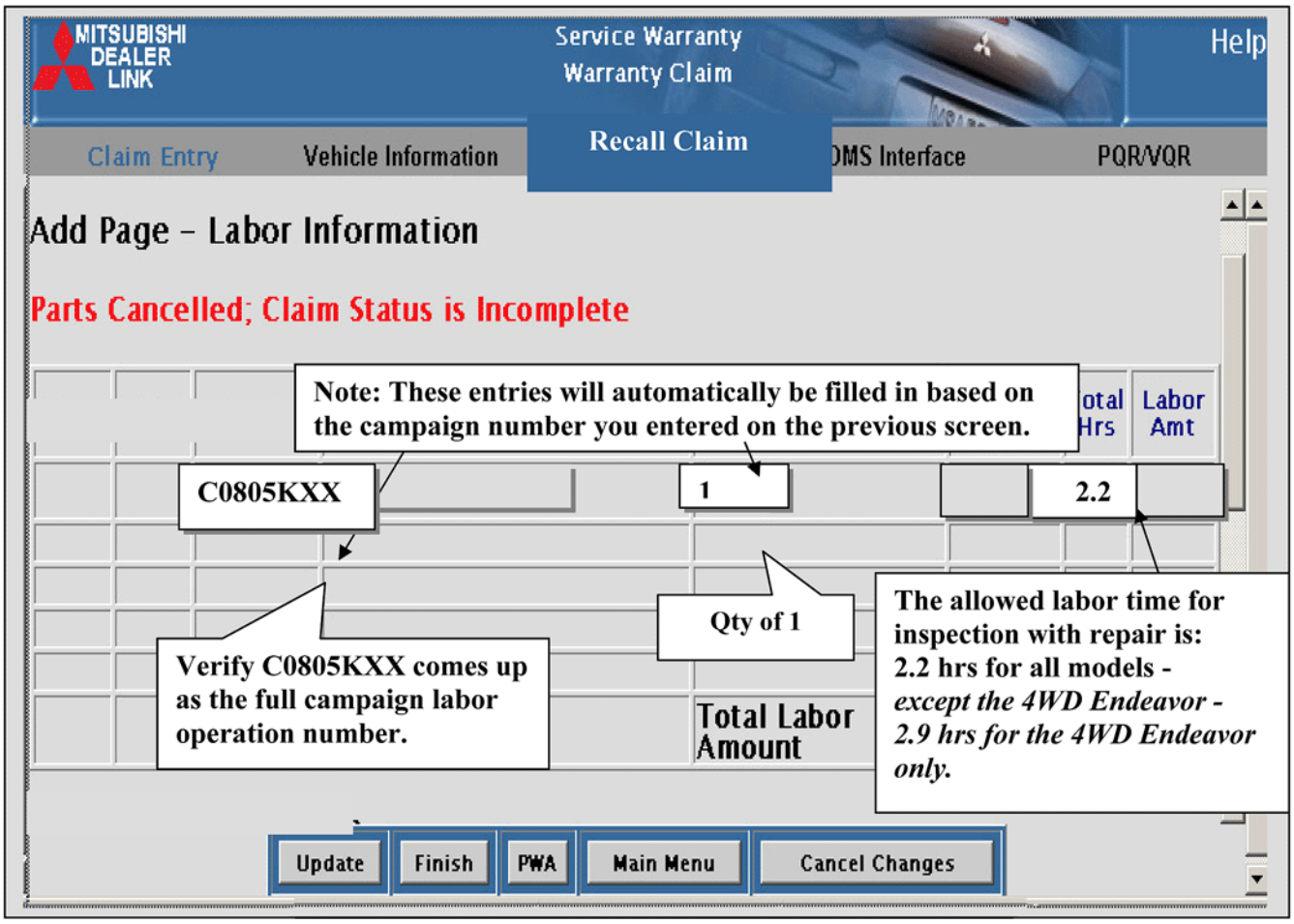
LABOR SECTION: LABOR FOR THE INSPECTION ONLY SCENARIO



PARTS SECTION: PARTS CLAIMED FOR AN INSPECTION with REPAIR



LABOR SECTION: LABOR FOR THE INSPECTION with REPAIR



MITSUBISHI MOTORS

AFFECTED VEHICLES
MODELS: 2005-2007 GALANT
2005-2007 ENDEAVOR
2006-2007 ECLIPSE
2007 ECLIPSE SPYDER

Date: September, 2008

Dear Mitsubishi Owner,

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

Reason For Notice: Mitsubishi Motors North America, Inc. (MMNA) has decided that a defect that relates to vehicle safety exists in certain 2006-2007 Galant, Eclipse/Eclipse Spyder and Endeavor vehicles. The left rear fuel tank mounting bracket may have been formed with a weak area in the metal. Should the vehicle be involved in a severe collision, the bracket could fail, possibly causing a fuel leak, which could lead to a fire.

What you should do: Please contact your Authorized Mitsubishi Dealer to schedule an appointment to have the left rear fuel tank support bracket inspected and if necessary reinforced. When you bring your vehicle in, please show the dealer this letter. If you misplace this letter, the dealer will still install the parts on your vehicle, free of charge.)

What your dealer will do: The dealer will inspect the bracket and if necessary, install a cap to reinforce the fuel tank bracket.

How long will it take? The time needed for the inspection of the bracket is approximately 30 minutes. If the vehicle requires that the bracket be reinforced, it will take approximately 2.5 hours. 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 the Mitsubishi Customer Relations Department at **888-648-7820**.
Hours: Monday through Friday 6 a.m. to 5 p.m. (Pacific 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, 1200 New Jersey Avenue SE, Washington, D.C. 20590, or call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153), or go to http://www.safercar.gov.

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.

Sincerely,

Mitsubishi Motors North America, Inc. C0805KXX