



TECHNICAL BULLETIN

No: P001
Issue: 1
Date: 15 Mar 2007

CIRCULATE: TO	Service Mgr X	Warranty X	Workshop X	Body Shop X	Parts X
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SECTION: 310-01B

RECALL: Fuel Tank Replacement

AFFECTED VEHICLE RANGE:

Land Rover LR3 (LA)

VIN: 5A000360 to 5A342827 – Specific Vehicles
5A342834 to 6A359153

CONDITION SUMMARY:

DISCONNECTED VAPOR RECOVERY SYSTEM TUBE POSES RISK FOR FUEL LEAK



NOTE: This Recall is an extension of the Recall B016 VIN range into the 2006 Model Year. It also includes a relatively small number of repaired vehicles in the B016 vehicle population (5A000360 to 5A342827) that will require a new tank. The affected vehicles were built or repaired with an "interim" tank configuration that now requires replacement. The new Recall number has been utilized to clearly track and identify all vehicles involved in this expansion of the original B016 Recall. The P001 repair procedure is the same as the previously issued Recall B016.

Situation: Land Rover has decided to recall vehicles in the affected VIN ranges to install a replacement fuel tank. Under certain circumstances a fuel tank internal breather tube can become disconnected. When the fuel level in the tank is above the level of the detached joint, fuel may then enter the breather tube. The vehicle may exhibit Check Engine (MIL) symbol illumination, fuel odor, and drivability concerns such as hesitation, misfire, stalling, rough running or difficulty in starting. If the amount of fuel flowing into the breather tube reaches the vapor canister and exceeds its capacity, the excess fuel may be discharged onto the ground. Liquid fuel, in the presence of an ignition source could result in a fire.

Action: Under the provisions of this Recall action the fuel tank assembly will be replaced.

PARTS:

WHK500220Fuel Tank Qty 1



NOTE: Removed tanks must be safely disposed of following local regulations and established Land Rover policy. Your Aftersales Market Managers (AMM) has been provided with further details on disposal cost reimbursement procedures incurred because of local legislation or high volume. Contact your AMM for additional information.

NOTE: The information in Technical Information bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment required to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers."
If you are not a Retailer, do not assume that a condition described affects your vehicle. Contact an authorized Land Rover service facility to determine whether the bulletin applies to a specific vehicle.



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No: P001
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WARRANTY:

Warranty claims should be submitted quoting program code **P001** together with the appropriate option code. As option codes are used, there is no requirement to enter parts or labor. They are provided for information only.

Drive in/drive out can only be claimed if the vehicle is brought back into the workshop for this action alone to be undertaken.

Program Code	Option	Job Description	SRO	Time (Hours)	Part Number	Part Description	QTY	Misc Expense
P001	B	Replace fuel tank	19.55.89/44	1.3	WHK500220	Fuel Tank Assembly	1	
P001	C	Replace fuel tank Drive in/drive out	19.55.89/44 02.02.02	1.3 0.2	WHK500220	Fuel Tank Assembly	1	



NOTE: Removed tanks must be safely disposed of following local regulations and established Land Rover policy. Your Aftersales Market Managers (AMM) has been provided with further details on disposal cost reimbursement procedures incurred because of local legislation or high volume. Contact your AMM for additional information.

Warranty claims should be submitted in accordance with the current Land Rover Warranty Policy and Procedures Manual and its amendments unless stated otherwise in this Recall Action.



REPAIR PROCEDURE

REMOVE FUEL TANK



NOTE: GTR lookup sequence is as follows:

GTR Home > NAS > Service Information/ LA LR3/2005 > Workshop Manuals > Discovery 3 / LR3 2005 Workshop Manual > Open Bookmarks "Powertrain/Fuel System/310-01B: Fuel Tank and Lines - 4.4L" > Link "Fuel Tank (19.55.01)"



WARNING: Always observe Workshop Manual procedures, Warning and Cautions when working with gasoline systems on the vehicle.

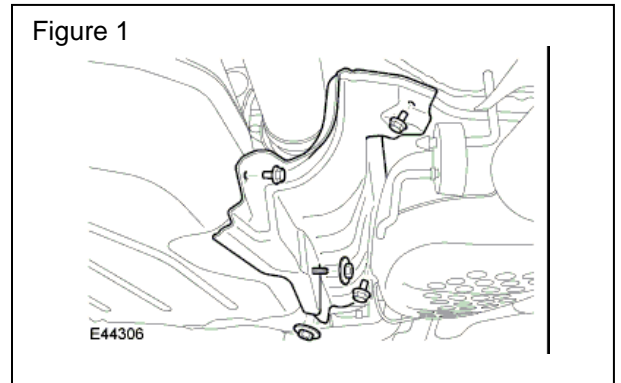
- The vehicle must be placed in a well-ventilated, quarantined area. 'No Smoking/Gasoline Fumes' signs should be displayed about the vehicle.
 - Cellular phones pose the risk of person injury when used in the vicinity of any fuel related components. Highly flammable vapors are always present and may ignite.
 - Smoking or carrying lighted tobacco or open flame of any type when working on or near any fuel related components could result in personal injury. Highly flammable vapors are always present and may ignite.
 - The spilling of fuel is unavoidable during this operation. All necessary precautions must be taken to prevent fire and explosion.
 - Before disconnecting or removing components, the area around the joint faces and connections must be clean. Open connections must be plugged to prevent contamination.
1. Disconnect the battery ground cable.
 2. Drain the fuel tank contents into a clean fuel caddy for future refill.



WARNING: Always support the vehicle on safety stands when working under it.

3. Raise and support the vehicle.
4. Remove the three bolts and two nuts securing the fuel tank heat shield (Figure 1).

Figure 1



⚠ CAUTION: Before the disconnection or removal of any components, the area around joint faces and connections must be clean. Open connections should always be plugged to prevent contamination.

5. Disconnect the fuel filler neck from the filler neck hose:
 - Remove the tamper-proof clamp screw cover if fitted.
 - Remove the hose clamp from the filler connector hose. (Figure 2)
6. Disconnect the fuel supply and purge lines quick release connections at the front of the fuel tank. (Figure 3)
7. Disconnect the fuel tank vent line at the rear of the fuel tank, over the integrated body frame. (Figure 4)
8. Release the fuel tank harness.
9. Release the parking brake emergency release cable and the two emergency release cable clips. (Figure 5)

Figure 2

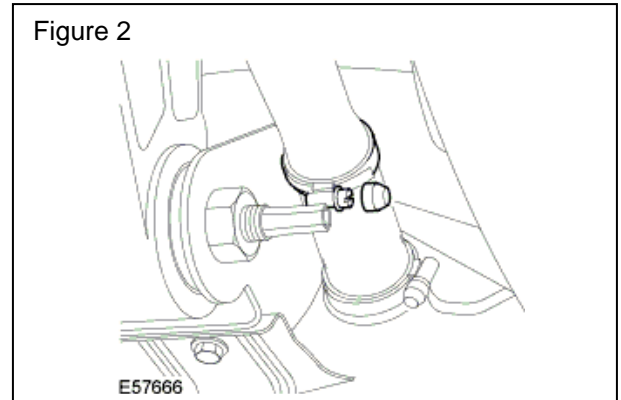


Figure 3

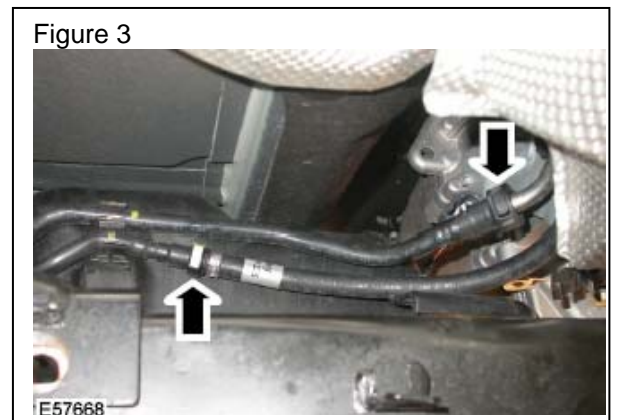
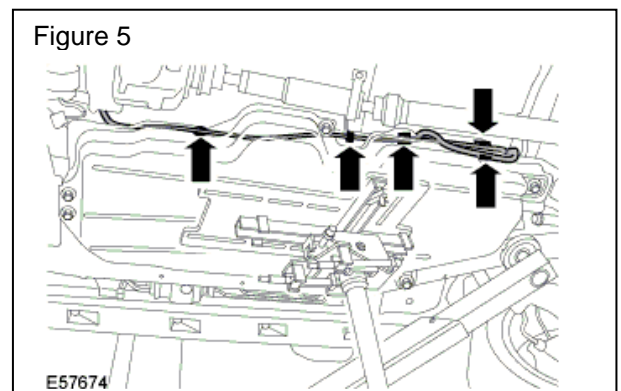


Figure 4



Figure 5



⚠ WARNING: To ensure stability the fuel tank must be secured to the transmission jack.

△ NOTE: The rear bolt is fitted with 2 washers.

10. Secure the tank to a suitable transmission jack and remove the six fuel tank retaining bolts. (Figure 6)

⚠ CAUTION: Connectors at the top of the tank permit lowering the fuel tank only 250 mm (9.75 in) in the following step.

11. Lower the fuel tank sufficiently to access the top of the fuel tank – approximately 9 inches.

12. Disconnect the fuel pump module electrical connector. (Figure 7)

13. Release the purge line from the top of the fuel tank (Figure 8):

- Remove the adhesive pad.
- Release from the five clips.

14. Lower the fuel tank.

⚠ CAUTION: Before the disconnection or removal of any components, ensure the area around joint faces and connections are clean. Plug any open connections to prevent contamination.

15. Remove the fuel tank vent line (Figure 9):

- Disconnect the quick release connector.
- Remove from the 3 clips.

16. With assistance, remove the fuel tank from the transmission jack.

Figure 6

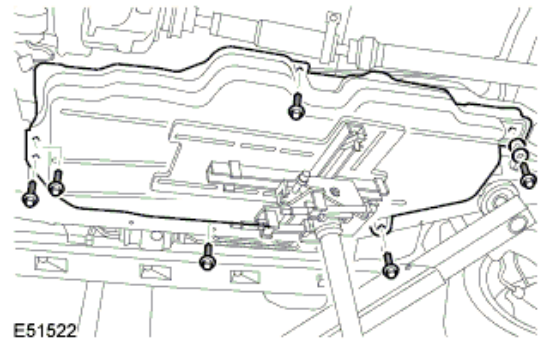


Figure 7

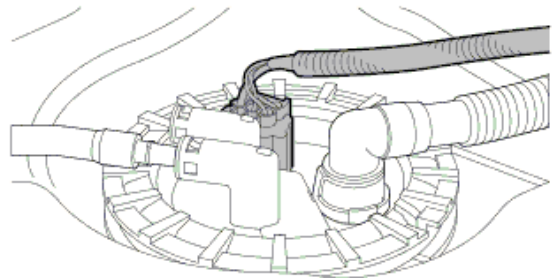


Figure 8

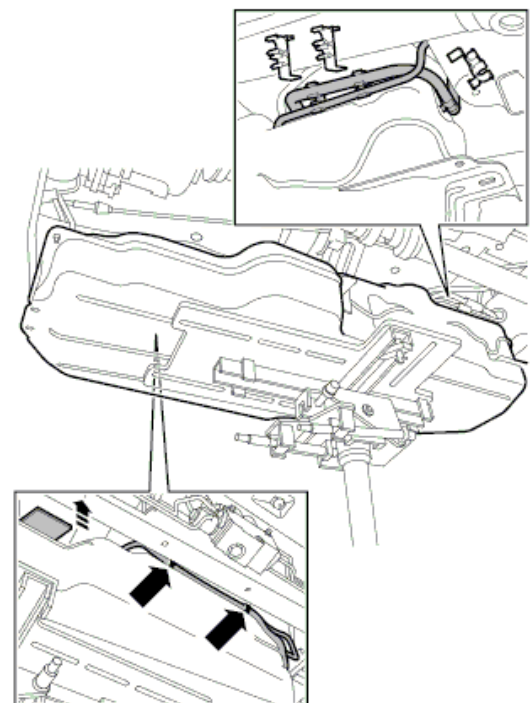
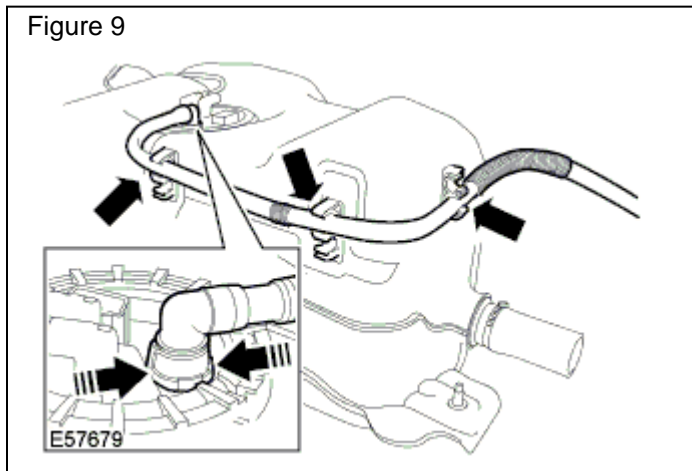


Figure 9



17. Remove the fuel tank bracket (Figure 10):

- Remove the two clips.
- Remove the two bolts.
- Remove the retaining plate.

INSTALL NEW FUEL TANK WHK500220

1. Install the fuel tank bracket on the new tank assembly:

- Install the retaining plate.
- Install the clips.
- Tighten the bolts to **3.5Nm (2.5 lbf-ft)**.

2. With assistance, position and secure the replacement fuel tank assembly onto the transmission jack.

3. Position the fuel tank under the vehicle, allowing access to the top of the tank.

4. Secure the purge line to the fuel tank:

- Secure with the clips.
- Install the adhesive pad.

5. Connect the electrical connector.



NOTE: The rear bolt is fitted with 2 washers.

6. Install the fuel tank and tighten the bolts to **45Nm (33 lbf-ft)**.

7. Install the two emergency release cable clips.

8. Secure the parking brake emergency release cable and secure the four securing clips.

9. Secure the fuel tank electrical harness.

10. Install the vent line as follows:

- Connect the quick release connector.
- Secure into the 3 clips

11. Connect the fuel supply and purge lines.

12. Connect the fuel filler neck as follows:

- Position the removed retaining hose clamp over the tank hose.
- Install the hose over the filler pipe.
- Tighten the hose clamp to **3-4Nm (2-3 lbf-ft)**.

13. Install the fuel tank heat shield as follows:

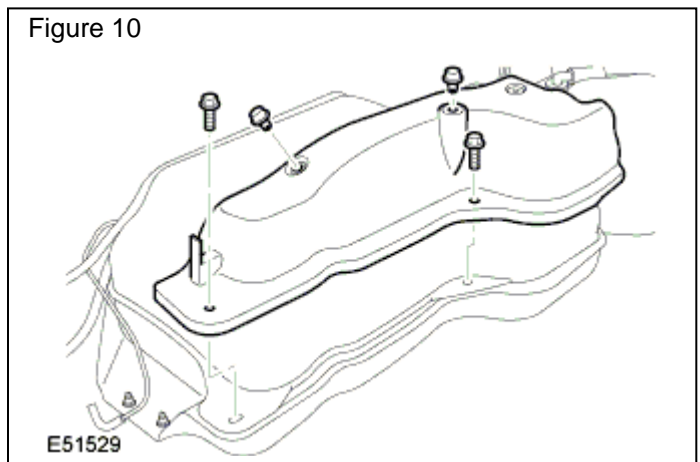
- Position the shield to the tank.
- Tighten the bolts to **5 Nm (4 lbf-ft)**.
- Tighten the nuts to **3 Nm (2 lbf-ft)**.

14. Refill the fuel tank with removed gasoline.

15. Check for security of fuel, purge and vent lines.

16. Connect battery ground cable.

17. Start and run the engine for a minimum of two minutes.





Land Rover North America, Inc.

SERVICE BULLETIN

CIRCULATION:			
Dealer Principal	X	Sales Guide	
General Manager	X	Parts Professional	X
Sales Manager		Warranty Admin	X
Business Manager		Service Advisor	X
Parts Manager	X	Technician	
Service Manager	X		

Bulletin **SRE07-02**

Section: **Recall**

Date: **15 March 2007**

Model: **LR3**

Applicable to: **USA**

Page: **1 of 6**

Attachments **Sample Owner Letter
Technical Q&A**

Subject: **SAFETY RECALL P001 – NTSA # 07V-011**

NOTE: This Recall is an extension of the Recall B016 VIN range into the 2006 Model Year. It also includes a relatively small number of repaired vehicles in the B016 vehicle population (5A000360 to 5A342827) that will require a new tank. The affected vehicles were built or repaired with an "interim" tank configuration that now requires replacement. The new Recall number has been utilized to clearly track and identify all vehicles involved in this expansion of the original B016 Recall. The P001 repair procedure is the same as the previously issued Recall B016.

A possible defect that relates to motor vehicle safety may exist in some 2005 and 2006 model year LR3 vehicles imported by Land Rover North America, Inc.

DESCRIPTION OF DEFECT

Land Rover has decided to recall specific repaired vehicles and vehicles within the extended VIN range to install a replacement fuel tank. Under certain circumstances the fuel tank internal breather tube can become disconnected. When the fuel level in the tank is above the level of the detached joint, fuel may then enter the breather tube. The vehicle may exhibit a Check Engine (MIL) symbol illumination, fuel odor, and drivability concerns such as hesitation, misfire, stalling, rough running or difficulty in starting. If the amount of fuel flowing into the breather pipe reaches the vapor canister and exceeds its capacity, the excess fuel may be discharged onto the ground. Liquid fuel, in the presence of an ignition source could result in a fire.

VEHICLES INVOLVED/CUSTOMER NOTIFICATION

NOTE: Some vehicles within the affected VIN range may have been repaired upon customer complaint under the provisions of the Service Quarantine procedure. These vehicles are included in this Recall Action because the "interim" components utilized for that repair must now be replaced.

A total of approximately 6116 vehicles sold in the United States (of 6464 affected vehicles) are involved in this Recall action. VIN ranges for vehicles affected by the Recall are provided below:

Land Rover LR3 (LA)

**VIN: 5A000360 to 5A342827 – Specific Vehicles
5A342834 to 6A359153**

Customer notification will begin the week of 12 March 2007. A sample of the customer notification letter is attached to this bulletin.

Federal law requires Retailers to complete any outstanding safety recall service before a vehicle is delivered to the buyer or lessee. Violation of this requirement by a Retailer could result in a civil penalty of up to \$6,000 per vehicle.

WORK PROCEDURES

Vehicles in the affected VIN range will have the fuel tank replaced. Refer to Technical Bulletin P001 "RECALL: Fuel Tank Replacement" for detailed repair procedures.

STATUS CHECKING/VEHICLE IDENTIFICATION

You may check the disposition of any vehicle using the Land Rover DDW vehicle history screen. In order to prevent recall duplication always verify the status of a Recall or Service Action using DDW.

Ensure that any outstanding Service Campaigns against a vehicle in this Recall are identified, that any required parts are available and that shop time is allocated to affect those repairs in conjunction with the P001 Recall activity.

PARTS SUPPLY

The complete tank assembly including the fuel pump and sender units must be used for this campaign.

The following parts are necessary to carry out this recall.

WHK500220Fuel Tank Qty 1

NOTE: Removed tanks must be safely disposed of following local regulations and established Land Rover policy. Your Aftersales Market Managers (AMM) has been provided with further details on disposal cost reimbursement procedures incurred because of local legislation or high volume. Contact your AMM for additional information.

CLAIM REIMBURSEMENT INFORMATION

Warranty claims should be submitted quoting program code **P001** together with the appropriate option code. As option codes are used, there is no requirement to enter parts or labor. They are provided in the table for information only.

Drive in/drive out can only be claimed if the vehicle is brought into the workshop for this action alone to be undertaken.

Program Code	Option	Job Description	SRO	Time (Hours)	Part Number	Part Description	QTY	Misc Expense
P001	B	Replace fuel tank	19.55.89/44	1.3	WHK500220	Fuel Tank Assembly	1	
P001	C	Replace fuel tank Drive in/drive out	19.55.89/44 02.02.02	1.3 0.2	WHK500220	Fuel Tank Assembly	1	

Warranty claims should be submitted in accordance with the current Land Rover Warranty Policy and Procedures Manual and its amendments unless stated otherwise in this Recall Action.

SAMPLE OWNER LETTER

RE: Safety Recall Action P001 - Fuel tank replacement

Vehicles Affected: Land Rover LR3

Model Years: 2005 and 2006

Dear Land Rover Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. Land Rover has decided that a defect, relating to motor vehicle safety, exists in certain 2005 and 2006 model year LR3 vehicles. These vehicles may have fuel tanks that contain an internal vapor recovery system fault. A breather tube can become detached inside the tank. Your vehicle is included in this recall action.

It is possible that your vehicle has previously had a similar repair requiring fuel tank replacement. This Recall includes some repaired vehicles in the previously conducted "Recall B016" vehicle population. The affected vehicles were repaired with an "interim" tank configuration that did not completely resolve the condition and now requires replacement.

What is the concern?

If the fuel level in the tank is sufficiently high, fuel can enter the detached breather tube. The vehicle may exhibit "Check Engine" warning lamp illumination, fuel odor, and drivability concerns such as hesitation, misfire, stalling, rough running or difficulty starting. If the amount of fuel flowing into the breather tube reaches the vapor canister and exceeds its capacity, the excess fuel will be discharged onto the ground. Liquid fuel, in the presence of an ignition source, could result in a fire.

What will Land Rover and your Land Rover Retailer do?

An authorized Land Rover Retailer will replace your fuel tank free of charge with a fuel tank that has an improved design.

What should you do?

Please contact your authorized Land Rover Retailer at your earliest convenience to schedule an appointment to have Safety Recall Action P001 completed on your vehicle. In the time prior to the Recall repair Land Rover recommends, as a precaution, that your fuel tank be filled **no more than 3/4 full**. This precaution will reduce the likelihood of fuel ingress into a breather tube that might have detached. The precaution is particularly important in hot climate conditions.

How long will it take?

Expected repair time is estimated to be approximately two hours to install a new fuel tank. However, due to service scheduling requirements at the Retailer, your vehicle may be needed for a longer period of time.

Attention Leasing Agencies:

Federal regulations require that you forward this recall notification to the lessee within TEN days.

Moved or no longer own a Land Rover?

If you are no longer the owner of this vehicle, Land Rover would greatly appreciate the name and address of the new owner, using the enclosed return postage-paid card.

Should you have the need to contact Land Rover by mail, please use the following address:

Land Rover North America
ATTN: Customer Relationship Center
555 MacArthur Boulevard
Mahwah, NJ 07430-2327

What should you do if you have further questions?

Should you have any questions regarding this Recall Action or need assistance in locating your nearest authorized Land Rover Retailer, please contact the Land Rover Customer Relationship Center at: **1-800-637-6837, Option 9.**

You can also contact Land Rover by e-mail: Visit the web site www.landroverusa.com and send an email from the "Contact Us" section.

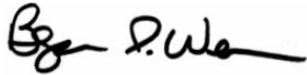
If you are still having difficulty getting your vehicle repaired in a reasonable time or without charge, you may write to the:

Administrator, National Highway Traffic Safety Administration
400 Seventh Street, S.W.,
Washington, D.C. 20590

Or you may call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153), or log on to www.safercar.gov to submit a complaint electronically.

We appreciate your confidence in our product and wish to do everything we can to retain that confidence. Land Rover in cooperation with our authorized Retailer will strive to minimize any inconvenience to you caused by this campaign.

Sincerely,



Benjamin I. Weiner
Customer Satisfaction Manager



Fuel tank – leak from vapor recovery system

Main Message: An issue has been identified on a number of 2005/6 MY LR3 vehicles built between May and September 2005 (VIN range 5A342834 to 6A359153). Individual previously repaired vehicles may contain a similar specification fuel tank.

Some of the affected vehicles may contain a breather pipe that was not made to specification. This may result in excessive swelling and cracking of a grommet and subsequent detachment of the breather pipe from a connector tube. When the fuel level in the tank is above the level of the detached joint, fuel may then enter the breather pipe. The vehicle may exhibit MIL illumination, fuel odor, and drivability concerns such as hesitation, misfire, stalling, rough running or difficulty in starting. If the amount of fuel flowing into the breather pipe reaches the vapor canister and exceeds its capacity, the excess fuel may be discharged onto the ground.

Q1 Why is Land Rover recalling certain LR3 models?

A Land Rover is conducting a voluntary safety recall involving LR3 vehicles to replace the gasoline fuel tank.

Q2 Can you tell me more about what is wrong with the vehicles?

A There is a quality concern with the fuel tank vapor recovery system piping that is internal to the fuel tank.

Q3 How would the customer become aware of potentially having this concern?

A Symptoms that may be noticed by a customer are MIL illumination, fuel odor, and drivability concerns such as hesitation, misfire, stalling, rough running or difficulty in starting. In certain circumstances when the outside air temperature is very high, fuel may be expelled out of the charcoal canister mounted at the rear of the vehicle.

Q4 Does this recall affect vehicle safety?

A Only in as much that liquid fuel can overflow out of the charcoal canister when the outside air temperature is very high. Because most of the reports Land Rover has received of reported fuel leaks indicate that the leaks occurred immediately following refueling of the tank, it is advisable that customers refrain from completely filling their fuel tanks during hot climatic conditions.

Q5 Has Land Rover received many complaints?

A Since the launch of recall action B016, Land Rover has received a limited number of reports of this condition from some markets where there have been sustained high ambient temperatures

Q6 Have there been any accidents or injuries?

A There have been no injuries or accidents associated with this concern.

Q7 How was the condition discovered?

A The condition was discovered by monitoring the warranty data of vehicles built after the initial VIN cut off for the first fuel tank Recall (B016) but prior to the introduction of a new tank assembly onto the production line.

Q8 How long has Land Rover known about this defect?

A Detailed analysis conducted in October 2006 highlighted this concern.



- Q9** Is the defect connected with the fuel tank leading you to any concerns regarding the reliability of a system, which is supposed to be designed and engineered for the passengers' safety? What type of measures are you planning to take?
- A We have no concerns with the reliability of the fuel tank. This issue is a quality concern associated with one of the components integral to the fuel tank that was manufactured away from specification by the supplier.
Once tanks are replaced on affected vehicles, there is no need to undertake any additional work to ensure the fuel tank system is reliable and safe.
- Q10** What has Land Rover done in production?
- A Land Rover and the fuel tank supplier have worked closely together to ensure that fuel tank components are manufactured to the required specification.
- Q11** What will authorized repairers do to the vehicles?
- A Authorized repairers will replace the fuel tank with a known good fuel tank.
- Q12** Which vehicles are affected by this recall?
- A Specific 2005 MY LR3 vehicles in the VIN range 5A000360 to 5A342827 and 2006 MY LR3 vehicles built up to 6A359153.
- Q13** Are other Land Rover models affected by these actions?
- A No other models are known to be affected.
- Q14** Are parts available to rework vehicles?
- A Parts will be available at campaign launch.
- Q15** How much will the recall cost Land Rover?
- A Cost was not a factor in deciding to recall these vehicles.
- Q16** How do I know if my LR3 vehicle is affected?
- A All owners of potentially affected vehicles will shortly receive a letter inviting them to contact a Land Rover authorized repairer for the work to be carried out.
- Q17** How long does it take for the car to be inspected and repaired?
- A The work will be carried out as quickly and efficiently as possible in order to minimize inconvenience to customers and is expected to take no longer than one and a half hours to complete. Naturally, due to dealer schedules, vehicles may be required for longer.
- Q18** Can I continue to drive my LR3 vehicle safely until it has been recalled?
- A Reports from affected markets confirm that this issue has only ever arisen when the air temperature is high, in excess of 40°C (104°F), and immediately following completely filling the fuel tank. And it is only in these circumstances that fuel has leaked out of the charcoal canister. If a customer is at all concerned about operating their vehicle in these conditions, our advice is fill the fuel tank no more than ¾ full.

Note: Please ensure that any Press enquiries are referred to the Land Rover Public Affairs office