



RECALL ACTION

Recall Action
Number: P017

Brake Vacuum Assistance System	Publication No.:	P017v6 Australia v4
	Model:	Discovery 3/LR3 2.7L TDV6
	Model Year:	2005-2009
	VIN Range:	LA000005 – LA513325
	Model:	Range Rover Sport 2.7L TDV6
	Model Year:	2005-2009
	VIN Range:	LS900002 – LS999999 LS100000 – LS215618
	Date of Issue:	19th July 2010

To:	All National Sales Companies, Importers and Australian Dealers.
For the Attention of:	The Service Manager.
Copies To:	The Parts Manager, Service Reception, Workshop Supervisor, Workshop and Warranty Personnel.

Related Information:	<p>This Recall Action is being reissued to notify dealers of the extension to the VIN ranges affecting additional EU3 vehicles.</p> <p>Specific vehicles in the VIN ranges LA412125 – LA487033, LS100008 – LS181999, LS980310 - LS999998 are eligible for Recall Action P008 which must be carried out at the same time as this Recall Action.</p>
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RE: Brake Vacuum Assistance System

Urgent Note: Where Discovery 3 and Range Rover Sport TDV6 **EU3** diesel vehicle has been repaired using **EU4 Brake Booster Vacuum Pipe part # LR018673**, these vehicles **MUST** be repaired again using the **EU3 Brake Booster Vacuum Pipe part # LR019703** (as the brake booster vacuum pipe is of a different design) and claimed via warranty as per the process included in this document.

Please check **DDW** to ensure the vehicle **EU specification** and if the Recall Action is outstanding prior to repair commencement.

Dear Colleagues

A concern has been identified on the above vehicles where oil is collecting in the brake booster causing a progressive loss of brake assistance, resulting in hard brake pedal and increased stopping distances for the same pedal effort. Engine oil in the brake master cylinder will lead to a loss of one or both of the foundation brake system hydraulic brake circuits and therefore increased brake pedal travel, increased stopping distances and, in the event of both primary and secondary brake master cylinder seal failure, a total loss of service brakes.

Temporary sticking of the non-return valve leads to a temporary loss of vacuum assistance on the braking system. The hydraulic braking system itself remains fully functional. Once the valve has unstuck the booster vacuum is immediately restored, full braking assistance is available, and the brakes perform normally for the remainder of that drive cycle.

Action to be taken

Land Rover has taken the decision to recall affected vehicles and you will be required to replace the brake booster vacuum pipe, the vacuum pump non return valve and check for oil in the brake booster. Where oil is detected in the brake booster, the brake booster and if necessary master cylinder will be replaced. For the workshop procedure see Appendix 1.

Land Rover Australia will be writing to owners; requesting that the owner contact their nearest dealer, as soon as possible, to arrange for the vacuum pipe and valve to be replaced and/or associated components. Prior to recall letter mailing which will be dependant on material availability, Dealers are requested to contact owners of affected vehicles and repair.

Dealers are reminded that they should not sell vehicles identified as affected by a safety recall until such time as the safety recall has been successfully completed on affected vehicles.

Please check DDW to ensure that the vehicle is affected by this Recall Action prior to undertaking any rework action. DDW will be updated to reflect only those vehicles affected. A listing of the 2005MY affected vehicles is attached to the bulletin as Appendix 3.

At the time of confirming a booking for vehicle repair, please ensure you check DDW and that all outstanding Field Service Actions are identified to ensure the correct parts are available and adequate workshop time is allocated for repairs to be completed at one visit.

For information purposes, a Technical Question and Answer document is attached as Appendix 2.

Parts Information

The parts from Table 1 should be ordered from Land Rover Parts in the normal manner.

Table 1

Part No.	Description	Drive	Model	Variant	Qty
LR014527	Master Cylinder Kit	RHD	Both	All	1
SJJ500090	Brake Booster Kit	Both	Discovery	All	1
SJJ500070	Brake Booster Kit	Both	RRS	Without Brembo Brakes	1
SJJ500080	Brake Booster Kit	Both	RRS	With Brembo Brakes	1
SIJ500040	Brake Fluid – 1Ltr	Both	Both	All	1
LR019703	Brake Booster Vacuum Pipe and Vacuum Pump Valve	RHD	Both	EU3	1
LR018673	Brake Booster Vacuum Pipe and Vacuum Pump Valve	RHD	Both	EU4	1

Warranty Information

Table 2 – SROs

Description	Trans.	SRO	Time
Check/replace vacuum pipe and Vacuum pump non return valve	Both	70.50.89.30	0.3
Check oil in brake booster and master cylinder	Both	70.50.89.31	0.1
Replace brake booster	Manual	70.50.01	1.1
Replace brake booster	Automatic	70.50.01	0.8
Replace master cylinder and brake booster	Manual	70.50.89.28	1.5
Replace master cylinder and brake booster	Automatic	70.50.89.28	1.3
Diagnose oil in brake booster - insufficient oil, re-fit original booster and master cylinder	Manual	70.50.89.32	0.6
Diagnose oil in brake booster - insufficient oil, re-fit original booster and master cylinder	Automatic	70.50.89.32	0.3
Drive in/drive out	Both	02.02.02	0.2




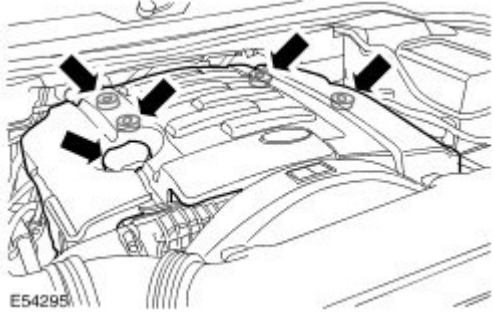
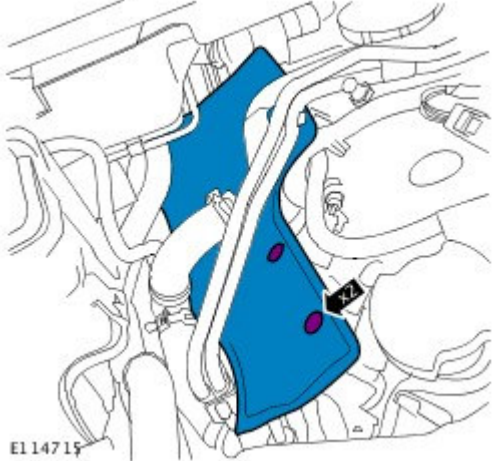

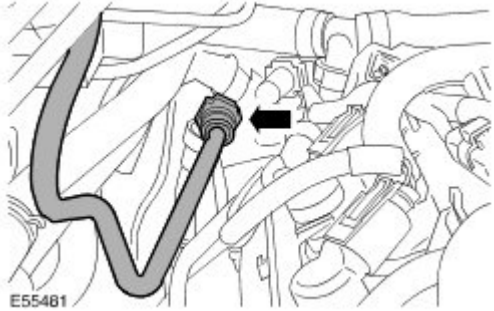

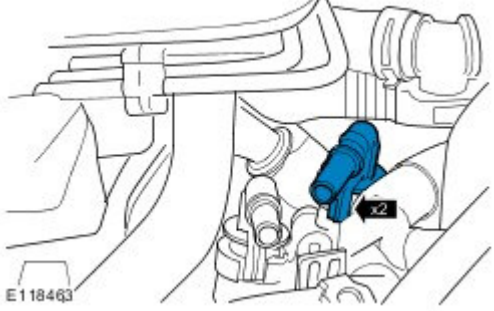
Warranty Claims should be submitted quoting program code **P017** together with option code X. In this instance it will also be necessary to quote the relevant SROs and parts from Tables 1 and 2.

NOTE: The option that contains the drive in/drive out allowance may only be claimed when the vehicle has been brought back into the workshop for this action alone to be undertaken.

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.

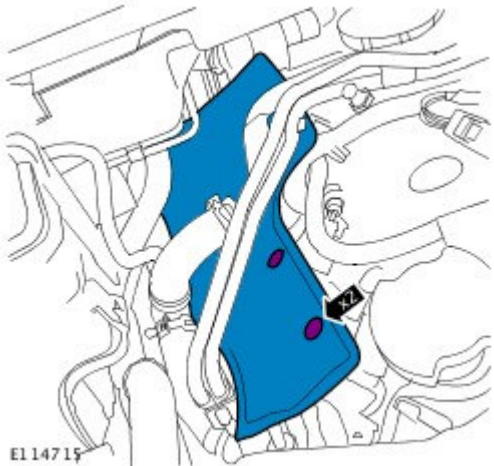
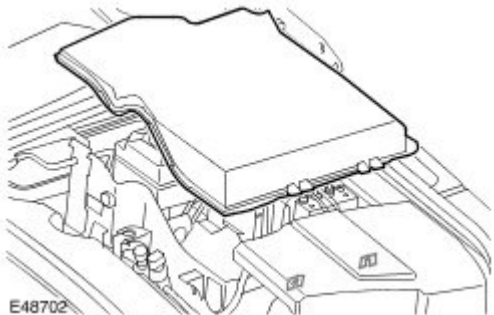
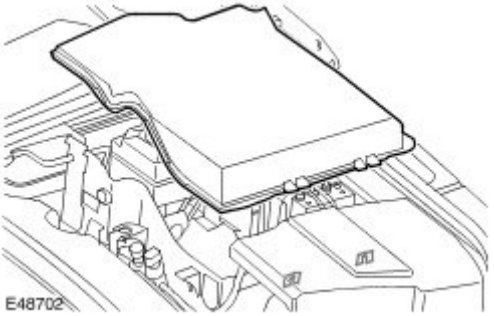
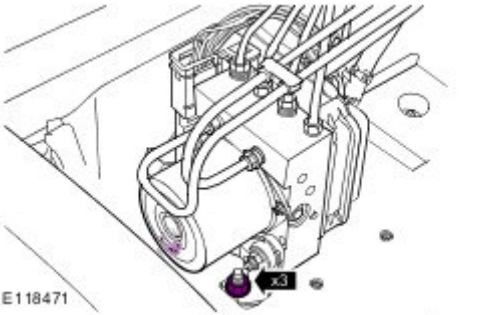
Attached **Appendix 1 – Workshop Procedure**
 Appendix 2 – Technical Q & A
 Appendix 3 – Affected VIN Listing of 2005MY Outstanding EU3 vehicles.


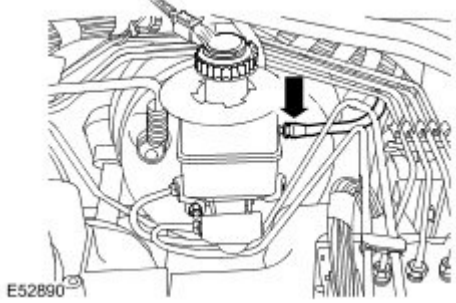



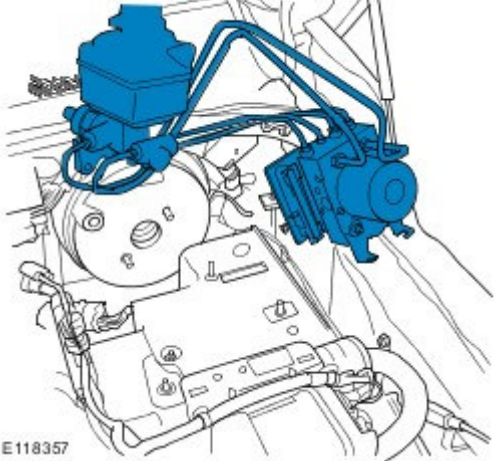
Appendix 1 – Workshop Procedure

Item	Description	
Brake Booster Non-Return valve		
1	<p>CAUTION:  To avoid dirt or contamination entering the brake vacuum system ensure that prior to disconnection of the brake vacuum pipe and during the non return valve replacement the area around the brake vacuum pump is clean and clear of any debris.</p> <p>Pump the brake pedal until the brake vacuum assistance is exhausted.</p>	
2	<p>Remove the engine cover (see Fig. 1).</p> <ul style="list-style-type: none"> Remove the oil filler cap. Release the 4 clips. 	 <p>E54295</p>
Fig. 1		
3	<p>Remove the fuel injector sound proofing (see Fig. 2).</p>	 <p>E114715</p>
Fig. 2		
4	<p>CAUTION:  Always plug any open connections to prevent contamination.</p> <p>Disconnect the brake booster vacuum line from the brake vacuum pump (see Fig. 3).</p>	 <p>E55481</p>
Fig. 3		
5	<p>CAUTION:  Failure to follow this instruction may cause damage to the vehicle.</p> <p>Remove and discard the brake vacuum pump upper inlet valve spigot (see Fig. 4).</p> <ul style="list-style-type: none"> Release the 2 clips. 	 <p>E118463</p>
Fig. 4		

<p>6</p>	<p>Remove and discard the brake vacuum pump inlet valve spring, ball and washer (see Fig. 5).</p>	<p>E118464</p>
<p>Fig. 5</p>		
<p>7</p>	<p>Remove the auxiliary battery cover.</p> <ul style="list-style-type: none"> • Release the 2 clips (see Fig. 6). 	<p>E48702</p>
<p>Fig. 6</p>		
<p>8</p>	<p>Disconnect the brake booster vacuum hose from the brake booster (see Fig. 7).</p> <ul style="list-style-type: none"> • Check for presence of oil in one way valve. • If no oil presence in the one way valve, carry out steps 9 to 18 and release the vehicle. • If oil is present in the one way valve, carry out steps 9 to 33. 	<p>E118473</p>
<p>Fig. 7</p>		
<p>Install</p>		
<p>9</p>	<p>CAUTION: Using a mirror ensure the correct orientation of the spring.</p> <p>CAUTION: Failure to follow this instruction may cause damage to the vehicle.</p> <p>CAUTION: If new components are damaged when installing a new valve kit must be used.</p> <p>Install the brake vacuum pump inlet valve spring (see Fig. 8).</p>	<p>E118465</p>
<p>Fig. 8</p>		

10	<p>CAUTION: Using a mirror ensure the correct orientation of the spring.</p> <p>CAUTION: Failure to follow this instruction may cause damage to the vehicle.</p> <p>Install the new brake vacuum pump inlet flat valve and washer (see Fig. 9).</p>	
11	<p>CAUTION: Make sure the O-ring is securely fitted to the spigot.</p> <p>CAUTION: Do not use excess force when fitting inlet valve spigot.</p> <p>CAUTION: Using a mirror make sure the spigot is securely fitted and undamaged.</p> <p>CAUTION: Failure to follow this instruction may cause damage to the vehicle.</p> <p>NOTE: An audible click is heard when the clips are fully latched.</p> <p>Install the new brake vacuum pump inlet valve spigot (see Fig. 10).</p> <ul style="list-style-type: none"> Secure with the clips. 	
12	<p>NOTE: Connect the vacuum gauge to the valve and run the engine for 5 seconds. The gauge should maintain vacuum for at least 5 seconds with the engine not running. If the vacuum is not maintained the valve has been fitted incorrectly.</p> <p>Check the operation of the valve using a suitable vacuum gauge (see Fig. 11).</p> <ul style="list-style-type: none"> Using a suitable cap blank off lower spigot. 	
13	<p>CAUTION: Always plug any open connections to prevent contamination.</p> <p>CAUTION: Make sure that a new component is installed.</p> <p>Connect the 2 new brake booster vacuum lines to the brake vacuum pump (see Fig. 12). Note: Ensure that correct EU3/EU4 Brake Booster Vacuum Pipe is fitted.</p>	

14	Install the injector sound proofing (see Fig. 13).	 <p style="text-align: right;">Fig. 13</p>
15	Install the engine cover.	
16	Connect the brake booster vacuum hose.	
17	Install the cover(see Fig. 14).	 <p style="text-align: right;">Fig. 14</p>
18	Start engine and check the brake booster operation.	
	Check for oil in the brake servo and master cylinder	
	All vehicles	
19	Pump the brake pedal until the brake vacuum assistance is exhausted.	
20	Remove the auxiliary battery cover (see Fig. 15). <ul style="list-style-type: none"> Release the two clips. 	 <p style="text-align: right;">Fig. 15</p>
21	If installed, remove the auxiliary battery.	
22	Release the anti-lock brake system modulator (see Fig. 16). <ul style="list-style-type: none"> Remove the three nuts. Release the brake tubes from the clip. 	 <p style="text-align: right;">Fig. 16</p>
23	Disconnect the low brake fluid warning indicator switch electrical connector.	

	<p>CAUTION:  Brake fluid will damage paint finished surfaces. If spilled, immediately remove the fluid and clean the area with water.</p> <p>Position an absorbent cloth to collect fluid spillage.</p>	
24	<p>Vehicles with manual transmission</p> <p>Disconnect the clutch master cylinder supply line (see Fig. 17).</p> <ul style="list-style-type: none"> Using a suitable cap blank off the supply line. 	 <p>E52890</p>
		<p>Fig. 17</p>
25	<p>All vehicles</p> <p>CAUTION:  Make sure the wings and trim panels are covered and protected, failure to follow this instruction may result in damage to the vehicle.</p> <p>CAUTION:  Make sure that excessive force is not used when maneuvering Master Cylinder and ABS Modulator. Failure to follow this instruction may lead to movement of brake pipe joints, and air ingress into brake system and or fluid leaks.</p> <p>CAUTION:  Move Master Cylinder, Brake Pipes and ABS Modulator assembly only a sufficient amount to gain access to master cylinder push rod. Taking care not to twist pipes in their unions (see Fig 18).</p> <p>Displace the master cylinder (see Fig. 18).</p> <ul style="list-style-type: none"> Remove the two nuts. Check for oil deposit on master cylinder push rod. 	 <p>E118357</p>
		<p>Fig. 18</p>

26	<p>Check for oil ingress in brake booster (see Fig. 19).</p> <ul style="list-style-type: none"> Using a suitable white cable tie check for oil ingress. If oil on the master cylinder push rod, install a new master cylinder (See (GTR), Workshop Procedure, section: 206-06). If oil is in the brake booster, install a new brake booster (See (GTR), Workshop Procedure, section: 206-07). If no oil in the brake booster and master cylinder, carry on from step 27. 	
		Fig. 19
All vehicles		
27	<p>CAUTION: Make sure the master cylinder is correctly aligned. Failure to ensure master cylinder is correctly aligned to the brake booster actuation rod may cause component damage or poor brake performance.</p> <p>Install the brake master cylinder.</p> <ul style="list-style-type: none"> Tighten the nuts to 26 Nm (19 lb.ft). 	
28	<p>Secure the anti-lock brake system modulator.</p> <ul style="list-style-type: none"> Install the three nuts. Secure the brake tubes to the clip. 	
29	<p>Check the security of the brake pipe to brake master cylinder and brake pipe to anti-lock brake system modulator unions and tighten to 15 Nm if required.</p>	
Vehicles with manual transmission		
30	<p>Connect the clutch master cylinder supply line.</p> <ul style="list-style-type: none"> Remove cap. 	
All vehicles		
31	<p>Connect the low brake fluid warning indicator switch electrical connector.</p>	
32	<p>If installed, install the auxiliary battery.</p>	
Vehicles with manual transmission		
33	<p>Bleed the clutch system (see Global Technical Reference (GTR), Workshop Procedure, section: 308-00).</p>	
All vehicles		
34	<p>Start engine and check the brake booster operation.</p>	
35	<p>Endorse the Service Portfolio book with the Recall Action number and complete and attach the Recall Label (LSTPR1516, Sample Below) to the 'A' pillar R/H/S. Labels can be obtained via Haynes Bookworks – phone # 02 8713 1400. email sales@bookworks.com.au</p>	


**"VEHICLE SAFETY
RECALL"**

RECTIFICATION DETAILS

RECALL No.: P017
DATE: 6/8/09
DLR CODE: xxxxx

RECALL No.:
DATE:
DLR CODE:
RECALL No.:
DATE:
DLR CODE:

Appendix 2 – Technical Q & A.

<h1>Technical Q&A</h1>	
FOR USE ON INQUIRY	
Recall Extension Land Rover P017	
<i>Discovery 3 and Range Rover Sport TdV6 Only</i>	

Main Message:

Land Rover have determined that oil migration condition described below may also now affect vehicles manufactured from May 2004 rather than the originally identified start point of November 2005. As a result, safety recall P017 has been extended to encompass this increased number of vehicles.

Land Rover has identified two concerns that affect the braking performance on its range Rover Sport and Discovery 3 TDV6 vehicles. Investigations have identified that the brake vacuum servo can become contaminated with engine oil migrating in to the brake booster or exhibit a sticking non return valve within the engine driven brake vacuum pump depending upon when the vehicle was built.

Oil Migration Condition

Customers have reported a reduction in braking assistance performance, and upon investigation dealer technicians report finding oil in the brake booster. When the engine is turned off the non-return valve in the vacuum pump does not in all cases seal. This allows engine oil to be sucked into the vacuum hose that feeds the brake booster (due to by-design residual depression in the brake booster feed hose). Oil may then migrate from the hose into the brake booster, which can lead to a reduction in brake assistance. Eventually the oil may migrate through the brake booster into the brake master cylinder where the main and primary & secondary pumping chamber seals may swell and could fail to seal.

Vehicles manufactured between May 2004 and April 2007 are at most risk of experiencing this condition. A modified vacuum pump was introduced in April 2007 to mitigate against this oil migration.

Valve Sticking Condition

The symptom has been identified as the brake vacuum pump not replenishing the vacuum in the brake booster for up to 60 seconds from engine-on, due to the pump non return valve "sticking" in the closed position. If the brake pedal is depressed typically 3-5 times within this time the brake booster vacuum becomes depleted and braking assistance is lost. Typically, within 60 seconds from engine-on the valve unsticks, the brake booster vacuum is restored and full braking assistance is available. Based on field reports, no further brake assistance symptoms are then experienced during that drive cycle.

Q1 Why is Land Rover recalling certain models?

A Oil collecting in the brake booster causes a progressive loss of brake assistance, resulting in hard brake pedal and increased stopping distances for the same pedal effort. Over time engine oil may migrate from the vacuum booster into the brake master cylinder which can lead to a loss of one or both of the foundation brake system hydraulic brake circuits and therefore increased brake pedal travel, increased stopping distances and, in the event of both primary and secondary brake master cylinder seal failure, a total loss of service brakes.

Temporary sticking of the non-return valve (NRV) leads to a temporary loss of vacuum assistance on the braking system, typically 60 seconds, on initial engine start up, the problem is most prevalent when vehicles have been left parked overnight in near-freezing weather (-5 to +5 degrees centigrade).. The hydraulic braking system itself remains fully functional. Once the valve has unstuck the booster vacuum is immediately restored, full braking assistance is available, and the brakes perform normally for the remainder of that drive cycle.

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

A The brake vacuum system becomes contaminated with engine oil leading to reduced performance, and in severe cases further migration of the oil into the master cylinder can lead to seal damage which in the event of both primary and secondary brake master cylinder seal failure, leads to a total loss of service brakes.

For the sticking NRV condition the valve within the vacuum pump sticks to its seat preventing a supply of vacuum to the booster for a period of up to 60 seconds. This lack of vacuum for a very short time can lead to a hard brake pedal and increased pedal effort to stop the vehicle in the same distance as normal.

Q3 Does this recall affect vehicle safety?

A In the event that the brake booster becomes contaminated with engine oil the customer will notice a harder brake pedal and increased stopping distance for the same pedal effect, the customer will notice the need for greater pedal effort in order to stop in the required distance. If the oil has damaged the brake master cylinder seals, the customer may experience loss of one or both braking circuits. With the sticking NRV foundation (hydraulic) brakes remain fully functional, however, the customer may perceive that the brake performance is significantly reduced due to the increased pedal efforts required to slow the vehicle down.

Q4 Has Land Rover received many complaints?

A To date there have been a significant number of field reports and customer complaints relating to these two conditions.

Q5 Have there been any accidents or injuries?

A There have been 9 minor accidents reported to Land Rover where one of these conditions allegedly led to the accident. Land Rover is unaware of any allegations of injury in relation to these concerns.

Q6 How was the condition discovered?

A These conditions were both reported to Land Rover by dealers from around the world.

Customers have reported a reduction in braking assistance performance, and upon investigation dealer technician's report finding oil in the brake booster or temporary sticking NRV's.

Q7 What has Land Rover done in production?

A A revised vacuum pump was introduced into production with an internal vent to minimize the brake booster oil ingress to an acceptable level in April 2007. The specification of engine that utilized this later specification vacuum pump that exhibited a sticking NRV is no longer in production.

Q8 What will authorized repairers do to the vehicles?

A Authorized repairers will fit a modified vacuum pipe with an additional connection to the vacuum pump secondary outlet port, a revised NRV within the vacuum pump and an additional vacuum NRV at the highest point in the vacuum pipe. For vehicles which are at risk from the oil migration concern, authorized repairers will also inspect the brake booster and master cylinder for signs of oil contamination and replace affected components as necessary.

Q9 Which vehicles are affected by this recall?

A Discovery 3 and Range Rover Sport 2006 – 2009 MY with 2.7 TdV6 engines.

Q10 Are parts available to rework vehicles?

A Parts will be available by the time of customer receive their letters.

Q11 How much will the recall cost Land Rover?

A Cost is never a factor in Land Rover's decisions to recall vehicles.

Q12 How do I know if my Discovery/Range Rover Sport is affected?

A All owners of potentially affected vehicles will receive a letter shortly inviting them to contact a Land Rover authorized repairer for the work to be carried out.

Q13 Can customers check their own vehicles?

A There are some indications in relation to oil migration of the concern being present. These include increased brake pedal effort to get the same degree of deceleration and harder than normal brake pedal feel. Some customers have also reported hearing a 'bubbling' or 'boiling' type noise when braking, caused by oil in the brake booster. Land Rover recommends that if any customer has a concern with the brake performance of their vehicle that they contact their authorised repairer immediately to seek further guidance.

Q14 How long does it take for the car to be inspected and repaired?

A The work to be carried out is expected to be completed in approximately 2 hours. Due to dealer schedules, vehicles may be required for longer.

Q15 Can I continue to drive my vehicle safely until it has been recalled?

A Customers can continue to drive their vehicles providing that there is no detectable reduction in braking performance. Should the customer have any concern that the braking system performance is reduced they should contact there authorized repairer immediately for further guidance.

Q16 Why is Land Rover extending the range of vehicles being recalled?

A Land Rover's investigation that led to the launch of the P017 recall identified a start point of vehicle identification numbers LA 367110 for Discovery 3 and LS 929086 for Range Rover Sport. Land Rover continued to monitor field reports and warranty claims following the launch of the P017 recall. Reports of a similar condition to that covered in recall P017 were being progressively received for vehicles prior to the start point of the originally recalled vehicle population. Further engineering investigations concluded that the same symptoms and effect on vehicle operation were being experienced on vehicles prior to the start point of the original P017 recall. Land Rover has extended the P017 recall to cover those vehicles built prior to the original recall start point

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

**Appendix 3 – Affected VIN Listing of 2005MY EU3 Vehicles.**

VIN - EU3	Vin - EU3	VIN - EU3	VIN - EU3
SALLAAA175A000367	SALLAAA135A322987	SALLAAA135A324354	SALLAAA135A325757
SALLAAA135A000445	SALLAAA175A323017	SALLAAA135A324356	SALLAAA135A325761
SALLAAA135A000453	SALLAAA135A323025	SALLAAA135A324360	SALLAAA135A325762
SALLAAA135A000466	SALLAAA135A323034	SALLAAA135A324361	SALLAAA175A325779
SALLAAA135A000467	SALLAAA135A323041	SALLAAA135A324369	SALLAAA135A325843
SALLAAA135A000468	SALLAAA135A323143	SALLAAA135A324379	SALLAAA175A325873
SALLAAA135A000469	SALLAAA135A323514	SALLAAA135A324387	SALLAAA135A325878
SALLAAA175A000470	SALLAAA135A324006	SALLAAA135A324429	SALLAAA135A325901
SALLAAA135A000471	SALLAAA135A324021	SALLAAA135A324437	SALLAAA135A325936
SALLAAA175A000472	SALLAAA135A324091	SALLAAA135A324494	SALLAAA135A325947
SALLAAA135A000473	SALLAAA135A324093	SALLAAA135A324608	SALLAAA135A326021
SALLAAA175A000532	SALLAAA135A324099	SALLAAA135A324615	SALLAAA135A326159
SALLAAA135A000620	SALLAAA135A324101	SALLAAA175A324619	SALLAAA135A326292
SALLAAA135A000649	SALLAAA135A324112	SALLAAA135A324657	SALLAAA135A326332
SALLAAA135A000665	SALLAAA135A324127	SALLAAA135A324676	SALLAAA135A326343
SALLAAA135A000676	SALLAAA135A324136	SALLAAA135A324757	SALLAAA135A326386
SALLAAA135A000782	SALLAAA135A324149	SALLAAA135A324761	SALLAAA135A326410
SALLAAA135A000870	SALLAAA135A324168	SALLAAA135A324810	SALLAAA135A326414
SALLAAA135A000890	SALLAAA135A324173	SALLAAA135A324843	SALLAAA135A326438
SALLAAA135A000891	SALLAAA135A324174	SALLAAA135A324862	SALLAAA135A326543
SALLAAA135A000896	SALLAAA135A324183	SALLAAA135A324886	SALLAAA135A326559
SALLAAA135A000993	SALLAAA135A324192	SALLAAA135A324926	SALLAAA135A326644
SALLAAA175A300001	SALLAAA135A324203	SALLAAA135A325008	SALLAAA175A326668
SALLAAA135A300002	SALLAAA135A324204	SALLAAA135A325013	SALLAAA135A326696
SALLAAA135A300020	SALLAAA135A324212	SALLAAA135A325022	SALLAAA135A326748
SALLAAA135A300102	SALLAAA135A324228	SALLAAA135A325056	SALLAAA135A327077
SALLAAA175A300121	SALLAAA135A324232	SALLAAA135A325121	SALLAAA135A327081
SALLAAA175A300141	SALLAAA135A324233	SALLAAA135A325123	SALLAAA135A327082
SALLAAA135A300202	SALLAAA135A324240	SALLAAA135A325135	SALLAAA135A327083
SALLAAA135A300322	SALLAAA135A324244	SALLAAA135A325158	SALLAAA135A327089
SALLAAA135A317865	SALLAAA135A324249	SALLAAA135A325198	SALLAAA135A327090
SALLAAA135A317867	SALLAAA135A324252	SALLAAA135A325250	SALLAAA135A327093
SALLAAA135A318306	SALLAAA135A324267	SALLAAA135A325279	SALLAAA135A327097
SALLAAA135A318313	SALLAAA135A324273	SALLAAA135A325326	SALLAAA135A327150
SALLAAA135A318315	SALLAAA135A324277	SALLAAA135A325401	SALLAAA135A327211
SALLAAA135A318319	SALLAAA135A324280	SALLAAA135A325457	SALLAAA135A327217
SALLAAA135A319107	SALLAAA135A324281	SALLAAA135A325461	SALLAAA135A327225
SALLAAA135A319108	SALLAAA135A324296	SALLAAA135A325512	SALLAAA135A327266
SALLAAA135A319109	SALLAAA135A324297	SALLAAA135A325540	SALLAAA135A327298
SALLAAA135A319110	SALLAAA135A324300	SALLAAA135A325554	SALLAAA135A327299
SALLAAA135A322548	SALLAAA135A324306	SALLAAA135A325580	SALLAAA135A327304
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