



# TECHNICAL BULLETIN

No: RB039

Issue: 1

Date: 25 May 2006

CIRCULATE: TO

Service Mgr  
X

Warranty  
X

Workshop  
X

Body Shop  
X

Parts  
X

**SECTION:** 204

## RECALL: Left-Hand Front Brake Flexible Hose – Possible Foul Condition

### AFFECTED VEHICLE RANGE:

Range Rover Sport (LS)

VIN: 6A900129 to 6A949108★

★ Specific vehicles within this Range

### CONDITION SUMMARY:

#### POTENTIAL FOR BRAKE HOSE AND WIRING DAMAGE FROM WHEEL WEIGHT

**Situation:** A concern has been identified with the left hand front brake hose on Range Rover Sport vehicles with 9Jx19-inch wheels and ***without*** Brembo brakes. The front left brake hose/ABS wheel speed sensor lead/brake pad wear warning sensor lead may chafe against the clip-on wheel balance weights when the wheel is at full left steering lock and the suspension is moving towards full bump.

The customer may complain of the following:

- A brake warning light and/or an ABS warning light and/or a worn brake pad message.
- The warnings could possibly lead to a long brake pedal together with increased stopping distances.

**Action:** Retailers are to inspect the Left Hand Front brake hose, ABS sensor wiring and pad wear sensor wiring for damage and where necessary replace affected components. The inner clip-on wheel balance weights on **vehicles with 9Jx19-inch wheels and *without* Brembo brakes** must also be replaced with stick-on balance weights as part of this Recall action. See the workshop Repair Procedure in this bulletin.

### PARTS:



**NOTE:** The following spare parts are currently available in limited quantities. Retailers should only stock modest quantities to ensure a potentially damaged vehicle. Most affected vehicles will not have experienced damage.

SHB500038 .....	Brake Hose	Qty 1	
SEM500062 .....	Pad Wear Warning Sensor	Qty 1	
SSB500132.....	ABS Sensor	Qty 1	Up To VIN 924696
SSB500133.....	ABS Sensor	Qty 1	From VIN 924697



**NOTE:** The following items should be sourced locally. An allowance to cover the costs incurred should be claimed against miscellaneous item code ZZZ001. The costs should be entered in local currency and must not exceed £1.50 sterling (US\$2.65).

Locally sourced/supplies:

- Wheel Cleaning Fluid
- Stick on balance weights
- Brake Fluid (TOP UP using LRND0T4 – Shell ESL)

**NOTE:** The information in Technical 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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## WARRANTY:



**NOTE:** Always refer to DDW to verify vehicle eligibility for this Service Campaign and to determine if the vehicle is affected by any other Service Actions.

Warranty claims should be submitted quoting program code **B039** together with Option Code "**X**". It will also be necessary to quote the **relevant parts** used for the repair and the **SRO** from the table below used to perform the procedure. Use the miscellaneous item code **ZZZ001** to cover the locally sourced supplies. This will result in payment for the stated time and parts entered.

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
B039	X	Check LHF brake hose, pad wear sensor & ABS sensor – replace balance weights	70.15.89/31	0.2	As Required			ZZZ001
B039	X	Check and replace LHF brake hose – replace balance weights	70.15.89/32	0.6	As Required			ZZZ001
B039	X	Check and replace LHF pad wear sensor – replace balance weights	70.15.89/33	0.5	As Required			ZZZ001
B039	X	Check and replace LHF ABS sensor – replace balance weights	70.15.89/34	0.7	As Required			ZZZ001
B039	X	Check and replace LHF brake hose, pad wear sensor and ABS sensor – replace balance weights	70.15.89/35	1.0	As Required			ZZZ001
B039	X	Drive in/Drive out	02.02.02	0.2	N/A			

*Normal warranty policy and procedures apply.*



## REPAIR PROCEDURE

### REPLACE INNER WHEEL WEIGHTS AND INSPECT FOR DAMAGE

1. Drive the vehicle onto a lift and raise to comfortable working heights.
2. Record the wheel balance weight values from both the inner and outer wheel edge on each of the four wheels.
3. Select the appropriate stick-on wheel weight from the table below to replace the INNER clip-on weights only:

OE Clip-on Weight Value	Replacement Stick-on Weight
25g	Use <b>same</b> mass for stick-on weight
30g - 45g	Use a stick-on weight with <b>5g higher</b> mass (Example: replace 35g clip-on with 40g stick-on)
50g - 60g	Use a stick-on weight with <b>10g higher</b> mass (Example replace 50g clip-on with 60g stick-on)

4. Clean the inner wheel surface at the locations where the clip-on weights are situated with a suitable cleaner (Brake-kleen® or similar).
5. Apply the stick-on weights to the **inner rim surface** at the corresponding location to the clip-on weight.
6. When application of stick-on weights is completed for all four wheels, remove **all** the INNER clip-on balance weights.
7. From underneath the vehicle inspect the condition of the front LH Brake Hose, ABS Sensor Lead and Pad Wear Warning Sensor Lead.



**NOTE:** Only parts that are observed to be damaged or have signs of contact in the inspection are to be replaced.



**NOTE:** GTR lookup sequence is as follows:

GTR Home > North America > Service Information/ LS – Range Rover Sport/2006 > Workshop Manuals > Range Rover Sport 2005 Workshop Manual > Bookmark "Chassis/BrakeSystem/ 206-03 Front Disc Brake" Link "Brake Disc - Vehicles Without: Brembo Brakes (70.12.10)"

8. If there is any evidence of damage on the inspected parts, refer to GTR section 70.12.10 and replace any damage part.



# TECHNICAL Q&A

FOR USE ON INQUIRY

## Recall B039

### Range Rover Sport (LS) with 9Jx19" wheels

**Main Message:** Front left brake hose and/or the ABS wheel speed sensor lead and/or the pad wear warning sensor lead can chafe against the clip-on wheel balance weights when at full left steering lock and the suspension is moving towards full "bump" at the upper limits of suspension travel. Being in "Access" or "Crawl" mode can contribute to the conditions that can lead to wheel weight chafe.

**Q1 Why is Land Rover recalling certain models?**

A To ensure the continued satisfactory operation of the brake system on all Range Rover Sport vehicles that could have this defect.

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

A During certain maneuvers when the steering system is on full left lock and the suspension is moving towards full "bump" the front left brake hose and/or the ABS wheel speed sensor lead and/or the pad wear warning sensor lead can catch on the wheel balance weight as the wheel rotates.

**Q3 Does this recall affect vehicle safety?**

A Yes.

**Q4 Has Land Rover received many complaints?**

A To date there have been 57 claims around the world for this complaint from nearly 50000 vehicles produced.

**Q5 Have there been any accidents or injuries?**

A As far as we are aware, there has been one minor incident without injury.

**Q6 How was the condition discovered?**

A The condition was first discovered by retailers in Italy when repairing vehicles where a brake warning light had been illuminated.

**Q7 What has Land Rover done in production?**

A The Wheel Balance Weight has been changed from a type that clips onto the inside rim of the wheel to a 'stick on' type to increase the clearance to the Brake Hose and Sensor Leads.

**Q8 What will authorized repairers do to the vehicles?**

A The vehicles will have their inner Wheel Balance Weights changed to a 'stick on' type.

**Q9 Which vehicles are affected by this recall?**

A All Range Rover Sport models fitted with 19" alloy wheels not equipped with Brembo brakes.

**Q10 Are other Land Rover models affected by these actions?**

A No.

**Q11 Are parts available to rework vehicles?**

A Yes.



## TECHNICAL Q&A

**Q13 How much will the recall cost Land Rover?**

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

**Q14 How do I know if my Range Rover Sport is affected?**

A If the tire sidewall is printed with 255/50R19 and the vehicle is not equipped with Brembo brakes, then your vehicle is affected.

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

**Q15 Can customers check their own vehicles?**

A Owners should contact a Land Rover authorized retailer for the vehicle to be inspected and repaired.

**Q16 How long does it take for the car to be inspected and repaired?**

A Depending on the results of the inspection the vehicle will be required between half an hour and an hour. Because of retailer schedules, vehicles may be required for longer.

**Q17 Can I continue to drive my Range Rover Sport safely until it has been recalled?**

A While the vehicle remains safe to drive, Land Rover would ask customers to be aware of the need to avoid steering the vehicle sharply while in access/crawl mode. Customers should react promptly to this recall to ensure maximum safety.