

TECHNICAL INFORMATION

RECALL Dynamic Stability Control Yaw Rate Sensor Inspection



No: RB178
FGN
Ref:
Issue: 1
Date: 08 March 2005

AFFECTED VEHICLE RANGE:

New Range Rover (LM)
Production dates

4A1757238 to 4A178015
22 June 2004 – 09 July 2004

SITUATION:

INTERNAL SENSOR FAULT POSSIBLE

Range Rover vehicles equipped with Dynamic Stability Control (DSC) could have had a yaw rate sensor installed that has internally delaminated. This could actuate the DSC system incorrectly, resulting in uneven and unexpected application of the brakes.

RESOLUTION:

INSPECT SENSOR AND REPLACE IF INDICATED

Inspect the suspect yaw rate sensor to determine if it is from the affected production batch. Replace the sensor if it is indicated by the inspection.

PARTS INFORMATION:



NOTE: It is expected that at least 30% of the 23 affected vehicles will require inspection only.

SRO 000010Yaw Rate Sensor Qty 1

DDW WARRANTY CLAIMS:

Warranty claims should be submitted quoting program code B178 together with the appropriate option code. As option codes are used, there is no requirement for you to enter parts or labor. They are repeated here 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
B178	A	Inspect DSC sensor identification label – no further action required	70.70.89/28	0.5	N/A	N/A		
B178	K	Inspect DSC sensor identification label – no further action required	70.70.89/28	0.5	N/A	N/A		
		Drive in/drive out	02.02.02	0.2				
B178	B	Inspect DSC sensor and renew	70.70.89/29	0.6	SRO 000010	DSC Sensor	1	
B178	C	Inspect DSC sensor and renew	70.70.89/29	0.6	SRO 000010	DSC Sensor	1	
		Drive in/drive out	02.02.02	0.2				

Normal warranty policy and procedures apply.
Material allowance is included in labor operation.

TIB RB178	CIRCULATE: TO	Service Mgr X	Warranty X	Workshop X	Body Shop X	Parts X
--------------	------------------	------------------	---------------	---------------	----------------	------------

REPAIR PROCEDURE

INSPECT AND REPLACE YAW RATE SENSOR

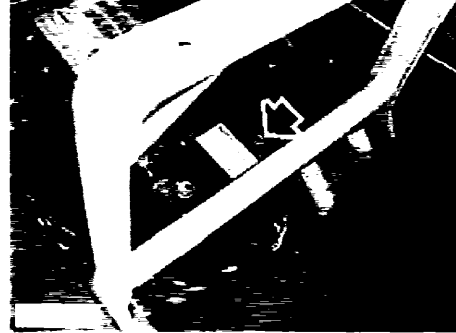
 **NOTE:** Many affected vehicles have been repaired at the port of entry prior to retail sale. It is important to verify that this Recall action is still outstanding on the vehicle under repair.

1. Verify that the vehicle is subject to the Recall using the DDW "Vehicle History" screen.

 **NOTE:** GTR lookup sequence is as follows:
GTR Home > NAS > Service Information/ LM Range Rover 2004 > Workshop Manuals > Service Procedures > Bookmark "BRAKES/REPAIRS" > link "Sensor – dynamic stability control (DSC)"

2. Refer to GTR Workshop Manual section 70.70.35 and access the yaw rate sensor.
3. Inspect the parts identification label on the top of the sensor for production lot numbers **S0029201**, **S0029202** or **S0029284**. (Figure 1)
4. If any of the production lot numbers **S0029201**, **S0029202** or **S0029284** is determined, replace the sensor.
5. Install removed center console components.

Figure 1





Land Rover North America, Inc.
Land Rover Canada

SERVICE BULLETIN

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

Bulletin **SRE05-04**

Section: **Recall**

Date: **08 March 2005**

Model: **Range Rover**

Applicable to: **USA**

Page: **1 of 4**

Subject: **Vehicle Safety Recall – B178 (NHTSA #04V-554)**

A possible defect which relates to motor vehicle safety may exist in some 2004 model year Range Rover vehicles imported by Land Rover North America, Inc.

DESCRIPTION OF DEFECT

Land Rover has decided to Recall all vehicles in the VIN range 4A175723 to 4A178015 that have not been repaired under a port quarantine process. The vehicles will be inspected and, if necessary, the yaw rate sensor will be replaced.

Range Rover vehicles within the VIN range that are equipped with Dynamic Stability Control (DSC) could have had a yaw rate sensor installed that has internally delaminated. This could actuate the DSC system incorrectly, resulting in uneven and unexpected application of the brakes.

VEHICLES INVOLVED/CUSTOMER NOTIFICATION

A total of 23 Range Rover vehicles (17 United States vehicles) are involved in this Recall action. The list below provides VIN's of US vehicles affected by this Recall. Customer notification will begin in March 2005. 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 new vehicle is delivered to the buyer or lessee. Violation of this requirement by a Retailer could result in a civil penalty of up to \$5,000 per vehicle.

SALME11474A176708	SALME11454A176884	SALME11484A177009
SALME11454A176738	SALME11464A176893	SALME11414A177076
SALME11454A176805	SALME11424A176907	SALME11474A177082
SALME11434A176818	SALME11464A176960	SALME11494A177102
SALME11474A176823	SALME11494A176984	SALME11474A177311
SALME11404A176842	SALME11444A176987	

WORK PROCEDURES

While not all vehicles affected by this Recall have the manufacturing defect, an inspection of the yaw rate sensor is required to determine if the vehicle is affected. If the inspection reveals that a potentially defective sensor has been installed, the sensor will be replaced under this Recall action. Refer to Technical Information Bulletin RB178 "RECALL: Dynamic Stability Control Yaw Rate Sensor Inspection" 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.

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

PARTS SUPPLY



NOTE: It is expected that at least 30% of the 23 affected vehicles will require inspection only.

The following part may be necessary to complete this Recall. The sensors are available from Land Rover and should be ordered as needed.

SRO 000010DCS Sensor Qty 1

CLAIM REIMBURSEMENT INFORMATION

Warranty claims should be submitted quoting program code **B178** 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
B178	A	Inspect DSC sensor identification label – no further action required	70.70.89/28	0.5	N/A	N/A		
B178	K	Inspect DSC sensor identification label – no further action required	70.70.89/28	0.5	N/A	N/A		
		Drive in/drive out	02.02.02	0.2				
B178	B	Inspect DSC sensor and renew	70.70.89/29	0.6	SRO 000010	DSC Sensor	1	
B178	C	Inspect DSC sensor and renew	70.70.89/29	0.6	SRO 000010	DSC Sensor	1	
		Drive in/drive out	02.02.02	0.2				

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.

Vehicles Affected: Range Rover

Model Year: 2004

RE: B178 Recall Action – Range Rover (4A176708 to 4A177695)

Dynamic Stability Control Yaw Rate Sensor Inspection

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 that relates to motor vehicle safety exists in 2004 Range Rover vehicles. A number of Range Rover vehicles equipped with Dynamic Stability Control (DSC) could have been fitted with a yaw rate sensor that is not within specification. Land Rover is therefore implementing this Recall Action on affected Range Rover vehicles that could exhibit this concern. If you are a recipient of this notice, and an owner of a Range Rover vehicle within the affected range, this letter is to inform you that your vehicle is included in the Recall Action.

What is the problem?

Land Rover is recalling Range Rover models equipped with Dynamic Stability Control (DSC) that were built between 22 June 2004 and 9 July 2004. Range Rover vehicles equipped with DSC and built between the affected dates could have been fitted with a defective yaw rate sensor. An out-of-specification yaw rate sensor could actuate the DSC system incorrectly, resulting in uneven and unexpected application of the brakes which will increase the likelihood of an accident.

What will Land Rover and your Land Rover Retailer do?

An authorized Land Rover Retailer will inspect the yaw rate sensor for a production code. If the code falls within the affected range the Retailer will install a new sensor to correct the situation.

What should you do?

Please contact your authorized Land Rover Retailer to schedule an appointment to have this work completed on your vehicle at your earliest convenience. This work will be carried out free-of-charge. When you contact the Retailer, inform them of the need to have Recall Action B178 "Stability Control Yaw Rate Sensor Inspection" completed on your vehicle.

How long will it take?

Expected repair time is estimated to be approximately 1 hour to complete this Recall Action. However, due to service scheduling requirements at the Retailer, your vehicle may be needed for a longer period of time. Please contact your authorized Retailer to schedule an appointment.

What you should do if you have already paid to have this repair completed?

If you meet all the following requirements, you are eligible to receive reimbursement

1. You own or have owned a 2004 Range Rover within the VIN range listed above.
2. You have paid for a yaw rate sensor repair due to the defect outlined previously in this letter.
3. The repair was performed before February xx, 2004
4. You have an original or legible copy of the paid repair order or invoice showing:
 - A description of the concern reported
 - Itemized parts and labor charges
 - The vehicle model and year and the vehicle identification number
 - The repair date
 - Repair mileage
 - Name and address of the Land Rover Retailer or licensed repair shop
 - Your name and address at the time of the repair

If you have all of the above information, present it to the Service Manager at your authorized Land Rover Retailer and they will arrange reimbursement of your claim. Please ensure that you retain copies of all of the paperwork supporting this claim.

If an authorized Land Rover Retailer fails or is unable to satisfactorily answer your concerns about this notice without charge within 60 days, pursuant to law 49 U.S.C. Chapter 301 you may submit a complaint to the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street, S.W., Washington, D.C. 20590 or call the toll-free Auto Safety Hotline at 888-327-4236.

Attention Leasing Agencies.

Federal regulation requires that you forward this Recall notice to the lessee within 10 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 or by e-mail: lowner@landrover.com

Sincerely yours,

A handwritten signature in black ink, appearing to read "Ben I. Weiner", written in a cursive style.

Benjamin I. Weiner

Customer Satisfaction Manager