

TECHNICAL BULLETIN

No: LTB00310 (ISSUE 2)
20 SEPTEMBER 2010

RANGE ROVER



CIRCULATE TO: SERVICE PARTS WARRANTY BODY SHOP
 ✓ ✓ ✓ ✓

ISSUE '2' CHANGES ARE HIGHLIGHTED IN GRAY

SECTION: 204

Air Suspension System - New Height Sensor Availability

AFFECTED VEHICLE RANGE:

LR3 (LA)

VIN: 5A000360 - 9A513325

Model Year: 2005 - 2009

Range Rover Sport (LS)

VIN: 6A900290 - 9A215620

Model Year: 2006 - 2009

CONDITION SUMMARY:

Situation: The red or amber suspension warning lamp in the instrument pack may be illuminated and one or more of the following Diagnostic Trouble Codes (DTC) may be stored: C1A031C, C1A0326, C1A0329, C1A041C, C1A0426, C1A0429, C1A051C, C1A0526, C1A061C, C1A0626, or C1A0629. This may be caused by a variety of reasons.



NOTE: If any other DTCs are present, diagnose and repair as a separate claim.

Action: In the event of a customer concern of the above, refer to the Repair Procedure outlined below to install updated air suspension height sensor(s).

PARTS:

LR020155	.....Height sensor kit - LHF - LR3 - AH22-3C097-AB	Qty: 1
LR020157	.....Height sensor kit - RHF - LR3 - BH22-3C097-AA	Qty: 1
LR020159	.....Height sensor kit - LHR - LR3 / Range Rover Sport - BH22-5B732-AA	Qty: 1
LR020161	.....Height sensor kit - RHR - LR3 / Range Rover Sport - AH22-5B732-AB	Qty: 1
LR020473	.....Height sensor kit - LHF - Range Rover Sport - BH32-3C097-AA	Qty: 1
LR020474	.....Height sensor kit - RHF - Range Rover Sport - AH32-3C097-AB	Qty: 1

TOOLS:

IDS with latest IDS-DVD and Calibration File; first available on IDS-DVD120_V6.08 Calibration File 29
Land Rover-Approved Midtronics Vehicle Power Supply
Refer to Workshop Manual for any required special tools

WARRANTY:



NOTE: Repair procedures are under constant review, and therefore times are subject to change; those quoted here must be taken as guidance only. Always refer to DDW to obtain the latest repair time.

DDW requires the use of causal part numbers. Labor only claims must show the causal part number with a quantity of zero.

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 this bulletin applies to a specific vehicle.

DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
Height sensor - Front - One Side	60.36.01	0.10	42	LR020155
Height sensor - Front - Both Sides	60.36.02	0.20		
Height sensor - Rear - One Side	64.36.01	0.10		
Height sensor - Rear - Both Sides	64.36.02	0.20		
Height sensor - Vehicle Set	60.36.04	0.40		

Normal warranty policies and procedures apply.

REPAIR PROCEDURE

REPLACE SUSPENSION SYSTEM HEIGHT SENSOR

NOTE: Left-hand (LH) shown; right-hand (RH) similar.

1. Inspect ride height sensor bracket position for orientation. (Figure 1)

CAUTION: The bracket shown in Figure 2 may have two or three holes. It is important that the orientation of the bracket is noted and not the number of holes.

NOTE: The position of the ride height sensor electrical connector remains the same for both original and new sensors.

- If the orientation of the left-hand rear (LHR) ride height sensor bracket is the same as Figure 2, continue to step 3.
- If the orientation of the LHR ride height sensor bracket is not the same as Figure 2, continue to step 2.
- If the ride height sensor bracket is installed as shown in Figure 3, continue to step 2.

Figure 1

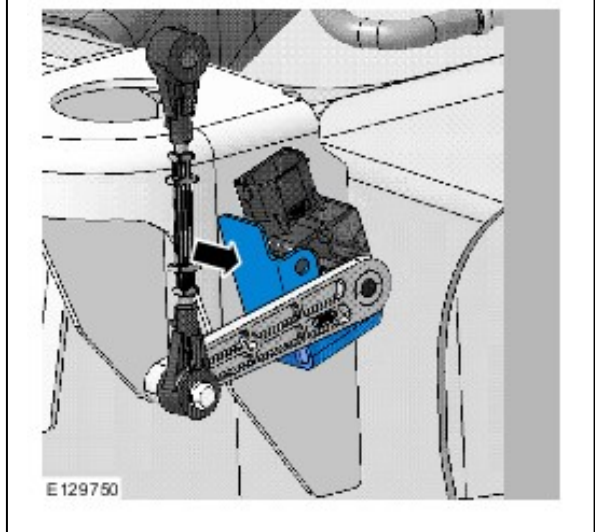


Figure 2

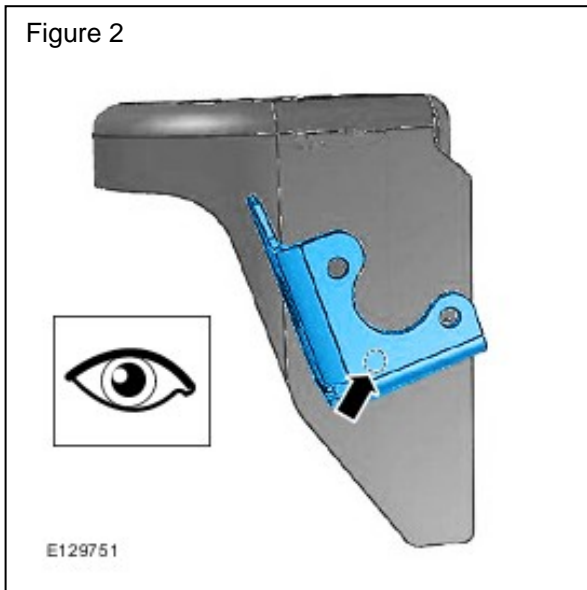
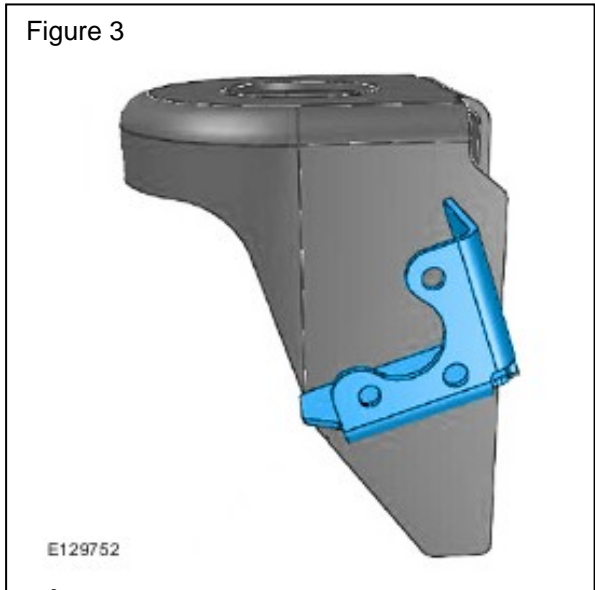




Figure 3



NOTE: This condition affects only a small number of chassis frames of vehicles built at the end of 2009.

2. Remove the bracket from the new ride height sensor:
(Figure 4)
 - Remove the two screws.
 - Discard the bracket.

 **CAUTION:** Failure to follow this instruction may result in damage to the vehicle.

 **NOTE:** If the sensors are fitted in the incorrect position the vehicle will sit on the bump stops and not calibrate.

 **NOTE:** Verify parts to ensure correct sensors are fitted to the correct position on the vehicle.

3. Refer to Workshop Manual, section 204-05: Vehicle Dynamic Suspension > Removal and Installation > *Suspension Height Sensor (60.36.01)*, and replace the height sensor.

 **NOTE: Range Rover Sport only:**

- Remove and discard the sensor link pin from the upper arm. (Figure 5)
- Install the new sensor link pin to the upper arm.
- Tighten bolts to **9Nm (6.6lbf ft)**.

Figure 4

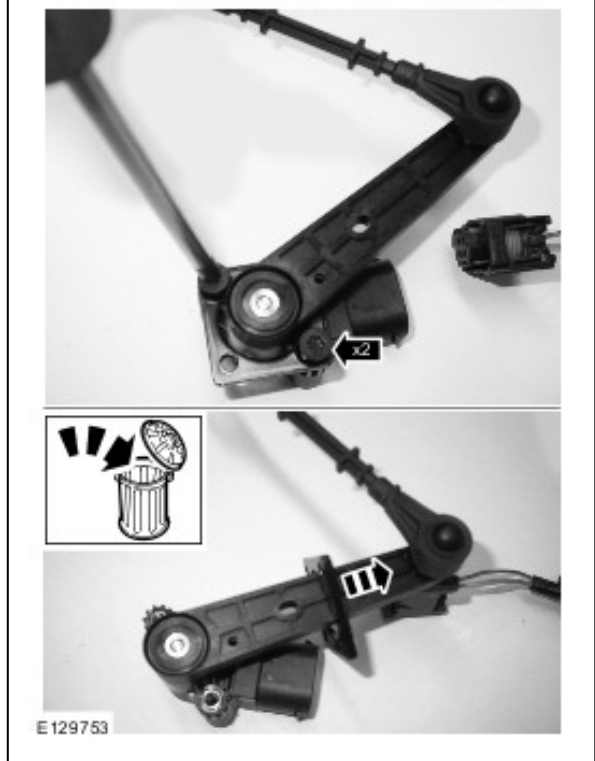
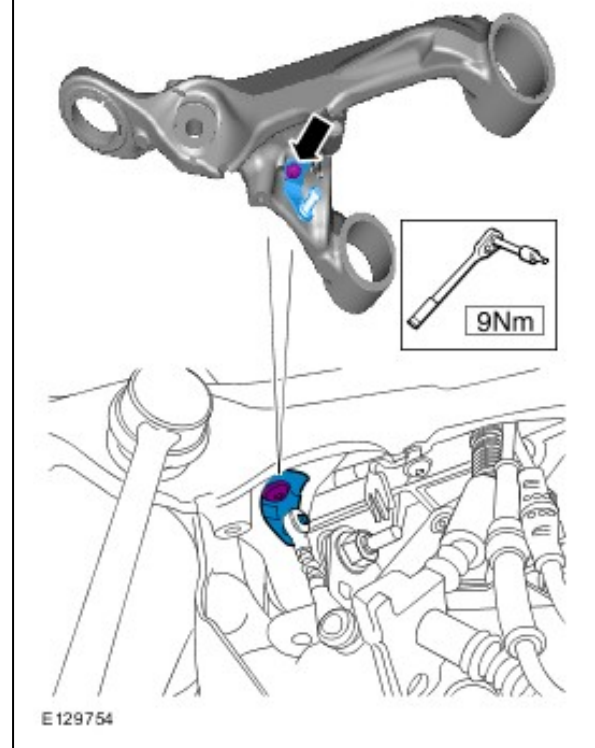


Figure 5



CALIBRATE SUSPENSION SYSTEM RIDE HEIGHT



CAUTION: Ensure all ignition 'ON' / ignition 'OFF' requests are carried out; failure to perform these steps may cause damage to control modules in the vehicle.



CAUTION: A Land Rover-approved Midtronics Vehicle Power Supply must be connected to the vehicle battery during IDS diagnosis / module programming.

1. Connect the Land Rover-approved Midtronics Vehicle Power Supply to the vehicle battery.
2. Turn ignition 'ON' (engine not running).
3. Verify air suspension system compressor is not running.
 - If the compressor is running, use the Integrated Diagnostic System (IDS) for Diagnostic Trouble Codes (DTC) and rectify as necessary.
 - If the compressor is not running, continue to step 4.



NOTE: IDS must be loaded with **IDS-DVD120_V6.08** or later *and* **Calibration File 29** or later.

4. Connect the IDS to the vehicle and begin a new Symptom Driven Diagnostics (SDD) session.
5. Follow the on-screen prompts, allowing SDD to read the VIN and identify the vehicle.
6. From the Session Type selection screen, choose 'Service Functions'.
7. Select the 'Selected Symptoms' tab, and then select:
 - Chassis
8. Select 'continue'.
9. Select and run the 'Suspension system - Height calibration' option.
 - Follow all on-screen instructions to complete this task.
10. Exit the current session.
11. Disconnect the IDS and the Midtronics Vehicle Power Supply from the vehicle.