

# TECHNICAL BULLETIN

## Q427 UPS7814-3bNAS1

### 04 NOV 2014



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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.

Changes are highlighted in gray

### **SECTION: 204-06**

Update Prior to Sale: Dynamic Response Valve Block Safety Control Valve Sticking Open

### **AFFECTED VEHICLE RANGE:**

#### **Range Rover Sport (LW)**

**Model Year:** 2014-2015

**VIN:** LW [REDACTED]-LW [REDACTED]

**Engine:** V8 S/C 5.0L Petrol

#### **Range Rover (LG)**

**Model Year:** 2014-2015

**VIN:** LG [REDACTED]-LG [REDACTED]

**Engine:** V8 S/C 5.0L Petrol

### **MARKETS:**

NAS

### **CONDITION SUMMARY:**

**Situation:** A potential issue has been identified with the Dynamic Response valve block on certain 2014-2015 Range Rover Sport (L494) and Range Rover (L405) vehicles (5.0L S/C V8 only) within the listed VIN ranges. Unexpected body movements when the vehicle is stationary may be experienced due to the system self-test pulse resulting in pressure in the actuators which is normally isolate from them.

**Action:** Retailers are required to **HOLD** only affected vehicles that are within your control and refrain from releasing the vehicles for new or used vehicle sale pending completion of the rework action detailed in this Technical Bulletin. Unsold vehicles should have this performed as part of the Pre-Delivery Inspection (PDI) process but **must** have it completed prior to vehicle handover to the customer.

### **PARTS:**



**NOTE: \* when ordering parts, order only the expected percentage demand of parts identified**

DESCRIPTION	PART No. / SUNDRY CODE	QTY. / VALUE	EXPECTED % of VEHICLES REQUIRING PARTS*
Valve block	LR061527	1	10
Dynamic Response System fluid	STC50519	\$82.30	10

\*\* - an allowance equivalent approximately \$82.30 (£51.00) has been provided to cover the cost of the Dynamic Response System fluid.

**SPECIAL TOOLS:**

**NOTE:** This document is an 'Active Bulletin' that will display a functional programming shortcut if accessed within a diagnostic session using SDD.

SDD with latest SDD-DVD and Calibration File; first available on DVD139.08 v.191

Jaguar Land Rover-approved Midtronics Battery Power Supply

Refer to Workshop Manual / Service Instruction for any required tools

**WARRANTY:**



**NOTE:** Check DDW to ensure that a vehicle is affected by this program prior to undertaking any rework action. Repair procedures are under constant review, and therefore times / prices are subject to change; those quoted here must be taken as guidance only. Refer to TOPIx to obtain the latest repair time. At the time of confirming a booking for vehicle repair, ensure that all outstanding 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.





**NOTE:** Claims for vehicles repaired using Option Codes from Technical Bulletin UPS7814-2bNAS1 / Service Bulletin SGI14-46 (issue 1; 30-OCT-14) may be submitted for payment. All new repairs and claims must follow this revised bulletin procedure.

Warranty claims must be submitted quoting Program Code '**Q427**' together with the relevant Option Code from the table. The SRO and part information listed have been included for information only. The Option Code(s) that allows for the drive in / drive out allowance may only be claimed if the vehicle is brought into the workshop for this action alone to be undertaken.

This program is valid for a limited time only. Warranty claims with a repair date prior to the **29 April 2015** closure date must be submitted for payment within 30 calendar days of completion of the repair.

PROGRAM CODE	OPTION CODE	DESCRIPTION	SRO	TIME (HOURS)	PARTS / SUNDRY CODE	QTY. / VALUE
Q427	F	SDD routine and drive test	05.10.70	0.7	-	-
Q427	G	SDD routine and drive test Drive in/drive out	05.10.70 02.02.02	0.7 0.2	-	-
Q427	H	 <b>NOTE: Range Rover Sport (L494) only</b>  SDD routine and drive test Replace valve block	05.10.70 60.60.20	0.7 2.5	LR061527 ZZZ999	1 ** \$82.30
Q427	J	 <b>NOTE: Range Rover Sport (L494) only</b>  SDD routine and drive test Replace valve block Drive in/drive out	05.10.70 60.60.20 02.02.02	0.7 2.5 0.2	LR061527 ZZZ999	1 ** \$82.30
Q427	H		05.10.70	0.7	LR061527	1

		 <b>NOTE: Range Rover (L405) only</b>  SDD routine and drive test Replace valve block	60.60.20	2.7	ZZZ999	** \$82.30
Q427	J	 <b>NOTE: Range Rover (L405) only</b>  SDD routine and drive test Replace valve block Drive in/drive out	05.10.70 60.60.20 02.02.02	0.7 2.7 0.2	LR061527 ZZZ999	1 ** \$82.30

\*\* - an allowance equivalent approximately \$82.30 (£51.00) has been provided to cover the cost of the Dynamic Response System fluid.

Normal Warranty policies and procedures apply

### **SERVICE INSTRUCTION:**

-  **NOTE: Disable the stop/start function using the console button; the engine must remain running during this check.**

Start the engine and drive the vehicle in a forward direction reaching at least 3 mph (5 km/h) for a period of 5 seconds.

- Stop the vehicle and select 'P' on the Transmission Control Switch (TCS), wait 60 seconds, and identify which of the following occurs;
  - If the vehicle moves left then right approximately every 12 seconds - this suggests the safety control valve is stuck open. If body movement is significant, the system may detect a sticking safety control valve with an amber warning lamp on with DTC C1048-72 stored. Carry on from step 16.
  - If no body movement occurs - this suggests the safety control valve is functioning normally. Carry on from Step 3.

-  **CAUTION: A Jaguar Land Rover-approved Midtronics battery power supply must be connected to the vehicle battery during SDD diagnosis / module programming.**

 **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.**

 **NOTE: SDD must be loaded with DVD139.08 v.191 or later.**

Connect the Jaguar Land Rover-approved Midtronics battery power supply to the vehicle battery.

- Connect the Symptom Driven Diagnostics (SDD) system to the vehicle and begin a new session.
- Follow the on-screen prompts, allowing SDD to read the VIN and identify the vehicle and initiating the data

collect sequence.

6. If the hyperlink is not available, the application can be found as follows:

Select 'Diagnosis' session type.

Select the following symptoms: Chassis > Suspension system > Vehicle dynamic suspension

From 'Recommendations'.

Run 'Configure existing module - Dynamic response module - Hydraulic system - Manual test'.

- Open and close the safety control valve 40 times.
- Whether the test was a pass or fail , carry on from Step 7.

7. If the hyperlink is not available, the application can be found as follows:

Select 'Diagnosis' session type.

Select the following symptoms: Chassis > Suspension system > Vehicle dynamic suspension

From 'Recommendations'.

Run 'Configure existing module - Dynamic response hydraulic control - system test'.

- Whether the test was a pass or fail , carry on from Step 8.

8. Follow all on-screen instructions to complete this task.

9. Exit the current session.

10. Disconnect the SDD and the battery power supply from the vehicle.

11.  **NOTE: Disable the stop/start function using the console button; the engine must remain running during this check.**

Start the engine and drive the vehicle in a forward direction reaching at least 3 mph (5 km/h) for a period of 5 seconds.

12. Stop the vehicle and select 'P' on the TCS, wait 60 seconds, and identify which of the following occurs;

- If the vehicle moves left then right approximately every 12 seconds - this suggests the safety control valve is stuck open. If body movement is significant, the system may detect a sticking safety control valve with an amber warning lamp on with DTC C1048-72 stored. Carry on from step 16.
- If no body movement occurs - this suggests the safety control valve is functioning normally. Carry on from Step 13.

**13.** Perform a road drive of up to five (5) miles (eight [8 ]kilometers) which includes the following;

- 5 separate stationary periods of minimum 20 seconds each.
- Include broken/uneven road surfaces.
- Include as many junctions as possible (not just a straight road drive).

**14.**  **NOTE: Disable the stop/start function using the console button; the engine must remain running during this check.**

Start the engine and drive the vehicle in a forward direction, reaching at least 3 mph (5 km/h) for a period of 5 seconds.

**15.** Stop the vehicle and select 'P' on the TCS, wait 60 seconds, and identify which of the following occurs;

- If the vehicle moves left then right approximately every 12 seconds - this suggests the safety control valve is stuck open. Carry on from step 16.
- If no body movement occurs - this suggests the safety control valve is functioning normally. Release the vehicle.

**16.** Install a new valve block (see TOPIx Workshop Manual, section 204-06).