

TECHNICAL BULLETIN

Q590NAS2

30 AUG 2016



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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: 204-05

Service Action: Air Suspension Compressor Blocked

AFFECTED VEHICLE RANGE:

Range Rover Sport (LW)

Model Year: 2014
VIN: 384430-399999 Vehicles With: Dynamic Suspension
Assembly Plant: Solihull

Range Rover Sport (LW)

Model Year: 2014-2015
VIN: 500023-512246 Vehicles With: Dynamic Suspension
Assembly Plant: Solihull

Range Rover Sport (LW)

Model Year: 2014-2015
VIN: 600025-606832 Vehicles With: Dynamic Suspension
Assembly Plant: Solihull

Range Rover (LG)

Model Year: 2014-2015
VIN: 181688-206213 Vehicles With: Dynamic Suspension
Assembly Plant: Solihull

MARKETS:

NAS

CONDITION SUMMARY:

Situation: An issue has been identified on a limited number of vehicles within the listed Affected Vehicle Range which may experience an amber or red warning symbol and associated text in the Instrument Cluster.

- Amber symbol - no change to vehicle or suspension performance, but suspension unable to lower on demand; warning message 'Suspension fault' displayed.
- Red symbol - vehicle height is above nominal standard ride height and unable to lower on demand; warning message 'Do not exceed 30 MPH' displayed.

Action: Retailers are required to **HOLD** affected new vehicles that are within your control and refrain from releasing the vehicles for **new vehicle sale** pending completion of the Service Instruction 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. Affected vehicles already in the hands of customers should be updated at the next available opportunity.

PARTS:

NOTE: Order only the expected percentage demand of parts identified.

| DESCRIPTION | PART No./SUNDRY CODE | QTY./VALUE | EXPECTED % of VEHICLES REQUIRING PARTS |
|---|----------------------|------------|--|
| Suspension compressor (suspension air supply unit) - vehicles without 7 seats | LR069691 | 1 | 21 |
| Suspension compressor (suspension air supply unit) - vehicles with 7 seats | LR069693 | 1 | 1 |
| Valve connector | LR041295 | 1 | 22 |
| Air suspension compressor (suspension air supply unit) silencer | LR088858 | 1 | 78 |

* - an allowance has been provided to cover the cost.

SPECIAL TOOLS:

E179225

Jaguar Land Rover-approved diagnostic tool with latest SDD software and Calibration File



E192494

Jaguar Land Rover-approved Midtronics Battery Power Supply

Refer to Workshop Manual/Service Instruction for any required special tools

WARRANTY:



NOTE: Check DDW to ensure that a vehicle is affected by this program prior to undertaking any rework action.

At the time of confirming a booking for vehicle repair, ensure that **all** outstanding Recalls and 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.

Warranty claims must be submitted quoting Program Code **Q590** together with the relevant Option Code from the table. SRO and parts information is included for information only. The Option Code(s) that allows for the drive in / drive out allowance can only be claimed if the vehicle is brought back 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 **31 July 2018** closure date must be submitted or payment within 30 calendar days of completion of the repair.

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.

| PROGRAM CODE | OPTION CODE | DESCRIPTION | SRO | TIME (HOURS) | PARTS/SUNDRY CODE | QTY./VALUE |
|--------------|-------------|---|----------------------------------|----------------------|--------------------------------|------------------|
| Q590 | B | Range Rover Sport (L494; vehicles without 7 seats); Range Rover (L405) Inspect and replace the suspension air supply unit silencer Configure the chassis control module | 05.10.60 60.90.21 | 0.60 0.20 | LR088858 - | 1 - |
| Q590 | C | Range Rover Sport (L494; vehicles without 7 seats); Range Rover (L405) Inspect and replace the suspension air supply unit silencer Configure the chassis control module Drive in/drive out | 05.10.60 60.90.21 02.02.02 | 0.60 0.20 0.20 | LR088858 - - | 1 - - |
| Q590 | F | Range Rover Sport (L494; vehicles with 7 seats) Inspect and replace the suspension air supply unit silencer Configure the chassis control module | 05.10.50 60.90.21 | 0.50 0.20 | LR088858 - | 1 - |
| Q590 | G | Range Rover Sport (L494; vehicles with 7 seats) Inspect and replace the suspension air supply unit silencer Configure the chassis control module Drive in/drive out | 05.10.50 60.90.21 02.02.02 | 0.50 0.20 0.20 | LR088858 - - | 1 - - |
| Q590 | K | Range Rover Sport (L494; vehicles without 7 seats); Range Rover (L405) Suspension air supply unit - renew Configure the chassis control module | 60.50.10 60.90.21 | 0.50 0.20 | LR041295 LR069691 - | 1 1 - |
| Q590 | L | Range Rover Sport (L494; vehicles without 7 seats); Range Rover (L405) Suspension air supply unit - | 60.50.10 60.90.21 02.02.02 | 0.50 0.20 0.20 | LR041295 LR069691 - - | 1 1 - - |

| PROGRAM CODE | OPTION CODE | DESCRIPTION | SRO | TIME (HOURS) | PARTS/SUNDRY CODE | QTY./VALUE |
|--------------|-------------|--|-------------------------------------|----------------------|--------------------------------|------------------|
| | | renew Configure the chassis control module Drive in/drive out | | | | |
| Q590 | P | Range Rover Sport (L494; vehicles with 7 seats) Suspension air supply unit - renew Configure the chassis control module | 60.50.10.50 60.90.21 | 0.40 0.20 | LR041295 LR069693 - | 1 1 - |
| Q590 | R | Range Rover Sport (L494; vehicles with 7 seats) Suspension air supply unit - renew Configure the chassis control module Drive in /drive out | 60.50.10.50 60.90.21 02.02.02 | 0.40 0.20 0.20 | LR041295 LR069693 - - | 1 1 - - |

Normal Warranty policies and procedures apply.

SERVICE INSTRUCTION:



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



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



NOTE: The Jaguar Land Rover-approved diagnostic tool must be loaded with SDD146.02 v.243 or later.

1. Connect the Jaguar Land Rover-approved Midtronics battery power supply to the vehicle battery.
2. Turn ignition ON (engine not running).
3. Connect the Jaguar Land Rover-approved diagnostic tool to the vehicle and begin a new session.
4. Follow the on-screen prompts, allowing the diagnostic tool to read the VIN and identify the vehicle and initiating the data collect sequence.
5. Select **Diagnosis** from the Session Type screen.
6. Select the **Selected Symptoms** tab, and then select the following:
 - **Chassis - Suspension system - Vehicle dynamic suspension**
7. Read and close any publication from the list of recommended candidates to expose the Extras tab.
8. Select the **Extras** tab.
9. From the Recommendations tab, select **Run** to perform the **Configure existing module - Chassis control module** option.

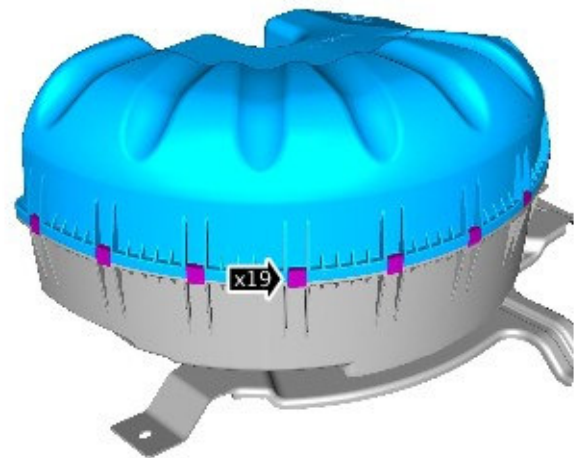
10. Follow all on-screen instructions to complete this task, ensuring all Diagnostic Trouble Codes (DTC) are cleared.
11. When all tasks are complete, select the **Session** tab and then select the **Close Session** option.
12. Disconnect the diagnostic tool and battery power supply from the vehicle.

 **CAUTION: Before disconnecting or removing components, make sure the area around the joint faces and connections are clean. Plug open connections to prevent contamination.**

 **NOTE: Removal steps in this procedure may contain installation details.**

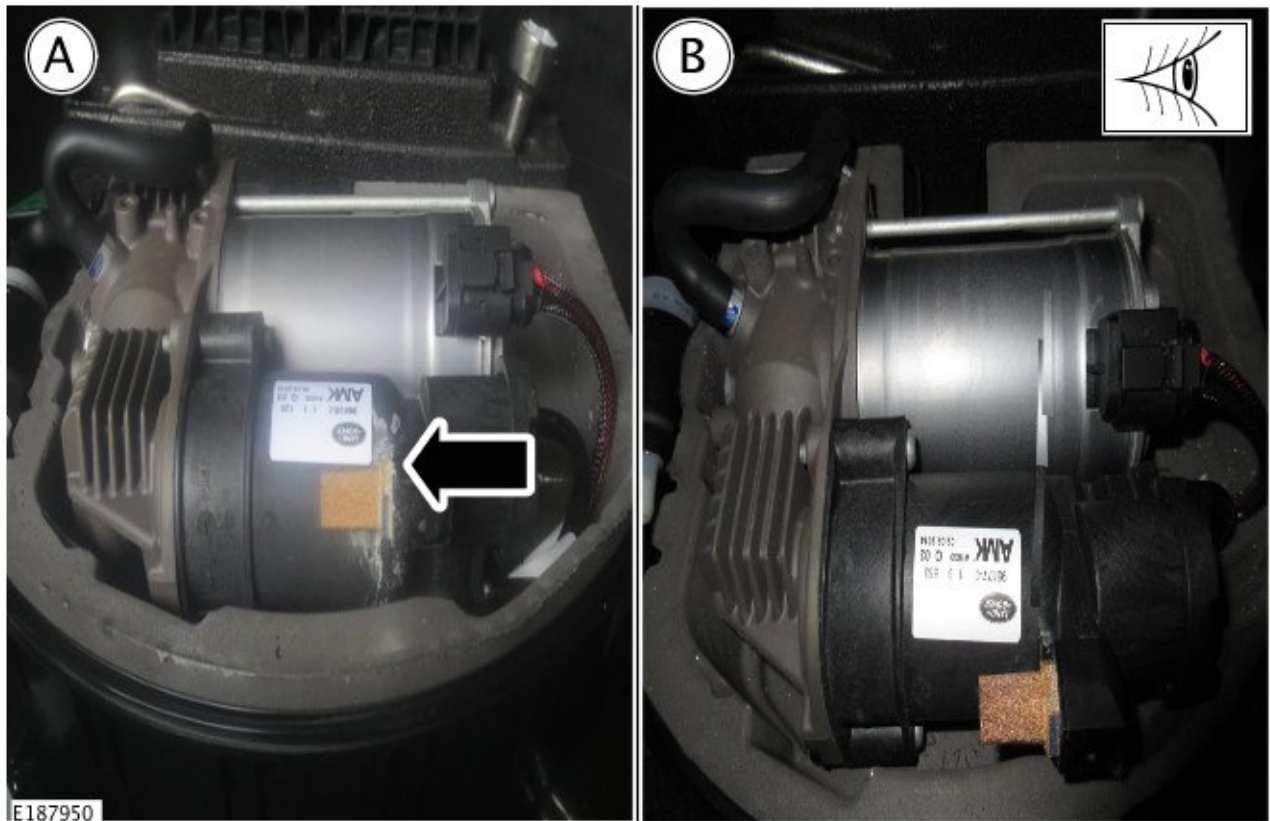
 **NOTE: Parts shown removed for clarity.**


13. Remove the suspension air supply unit (see TOPIx Workshop Manual section 204-05: Vehicle Dynamic Suspension).
14. Remove the suspension air supply unit cover.



E161582

15. Check for white powder at the suspension air supply unit silencer.
 - If white powder is present at the silencer **(A)**, replace the suspension air supply unit (see TOPIx Workshop Manual, section 204-05: Vehicle Dynamic Suspension).
 - If no white powder is present at the silencer **(B)**, continue to the Step 16.

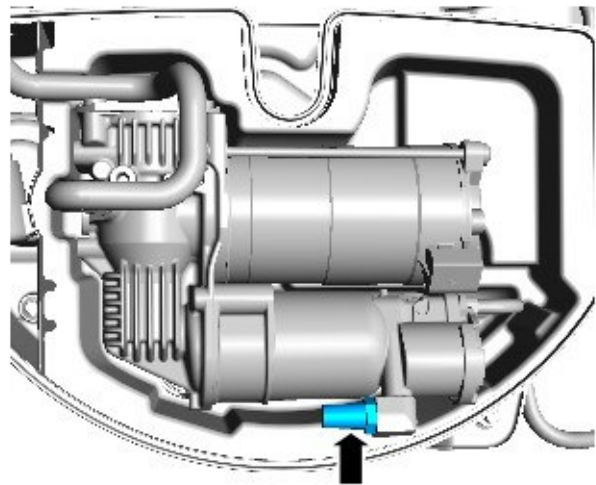


16.  **CAUTION:** Make sure to support the plastic casing when unscrewing the air suspension compressor silencer, there is a possibility of damaging the suspension air supply unit silencer if not careful.

Replace the suspension air supply unit silencer.

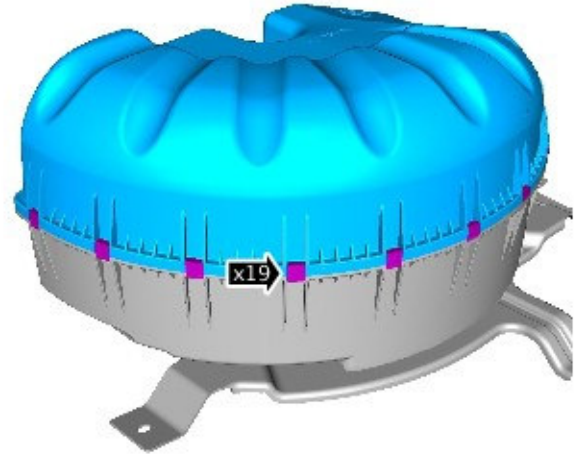
1. Remove the suspension air supply unit silencer from the suspension air supply unit.
2. Install the suspension air supply unit silencer into the suspension air supply unit.

- Torque: **2.5Nm**



E193912

17. Install the suspension air supply unit cover.



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