

TECHNICAL BULLETIN

No: LTB00269 (ISSUE 4)
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RANGE ROVER



CIRCULATE TO: SERVICE PARTS WARRANTY BODY SHOP
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THIS BULLETIN SUPERSEDES TECHNICAL BULLETINS LA204-002, LM204-002, AND LS204-004; NO OTHER CHANGES HAVE BEEN MADE TO ISSUE '4'

SECTION: 204

Air Suspension Compressor Delivery Valve / Drier / Relay Replacement; Software Update

AFFECTED VEHICLE RANGE:

LR3 (LA)	VIN: 5A000360 - 9A513325 Model Year: 2005 - 2009
LR4 (LA)	VIN: AA510742 - AA524416 Model Year: 2010
Range Rover Sport (LS)	VIN: 6A900129 - AA229700 Model Year: 2006 - 2010
Range Rover (LM)	VIN: 6A198058 - AA316152 Model Year: 2006 - 2010

CONDITION SUMMARY:

Situation: The amber or red Suspension system warning indicator may illuminate and 'Suspension system inactive' may display in the message center or there may be a noticeable degradation of suspension system performance. Diagnostic Trouble Codes (DTC) C1A20-64, C1130-7A, C1131-92, C1A27-14, and/or C1A27-12 may also be stored in the Ride Level Control Module.

Action: In the event of a customer concern of the above, refer to the Repair Procedure outlined below to:

- Replace the air suspension compressor delivery valve;
- Replace the air suspension compressor drier;
- Replace the air suspension compressor relay; and
- Update the air suspension system control module software.

PARTS:

LR020590	Air suspension compressor delivery valve kit	Qty: 1
VUB504700.....	Air suspension compressor drier	Qty: 1
YWB500220.....	Air suspension compressor relay	Qty: 1

TOOLS:

IDS with latest IDS-DVD and Calibration File; first available on IDS-DVD125_V7 Calibration File 74
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
Re-work air suspension compressor delivery valve and air drier; replace air suspension compressor relay LR3, LR4, and Range Rover Sport	60.50.89.51	0.50	04	LR015303
Update Ride Level Control Module software LR3, LR4, and Range Rover Sport	60.90.16	0.20	04	LR015303
Re-work air suspension compressor delivery valve and air drier; replace air suspension compressor relay Range Rover	60.50.89.51	0.60	04	LR015089
Update Ride Level Control Module software Range Rover	60.90.16	0.20	04	LR015089

Normal Warranty policies and procedures apply

REPAIR PROCEDURE

REPLACE COMPRESSOR DELIVERY VALVE AND AIR DRIER

1. Refer to Workshop Manual, section 204-05, *Vehicle Dynamic Suspension*, and remove the air suspension system compressor drier.



CAUTION: Plugs must be installed in the open connections to prevent contamination.



NOTE: All figures shown are LR3 / LR4 / Range Rover Sport; Range Rover similar.

2. Install plugs in the inlet and outlet connections. (Figure 1)
3. Remove the delivery valve-retaining plug. (Figure 2)
4. Remove and discard the return spring and delivery valve.
5. Install a new O-ring seal to the delivery valve-retaining plug.
6. Install the new spring and delivery valve into the compressor.
 - Tighten the delivery valve-retaining plug to **12Nm (8.8 lbf ft)**.
7. Remove plugs in the inlet and outlet connections.
8. Refer to Workshop Manual, section 204-05, *Vehicle Dynamic Suspension*, and install the new air suspension system compressor drier.

Figure 1

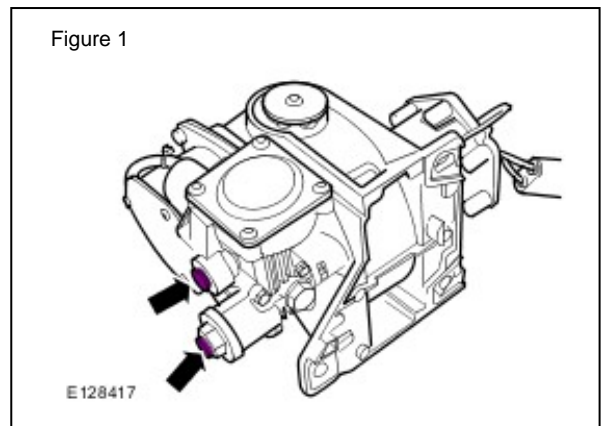
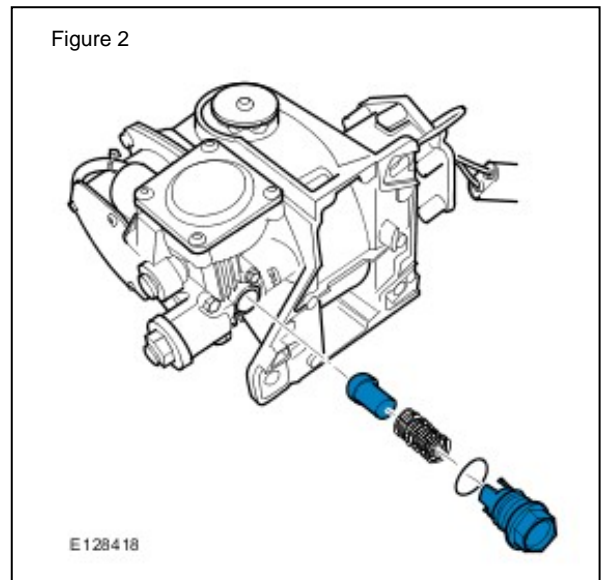


Figure 2



REPLACE AIR SUSPENSION COMPRESSOR RELAY - LR3, LR4, RANGE ROVER SPORT

1. Access the engine bay fuse box.
2. Replace the air suspension compressor relay. (Figure 3)

Figure 3



REPLACE AIR SUSPENSION COMPRESSOR RELAY - RANGE ROVER

1. Access the right-hand side luggage compartment fuse box.
2. Replace the air suspension compressor relay. (Figure 4)

Figure 4



UPDATE THE RIDE LEVEL CONTROL MODULE SOFTWARE



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 prior to control module software update.
 - If the compressor is not running, continue to step 4.



NOTE: IDS must be loaded with **IDS-DVD125_V7** or later *and* **Calibration File 74** 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 'Diagnosis'.
7. Select the 'Selected Symptoms' tab, and then select:
 - Chassis > Suspension system > Vehicle dynamic suspension
8. Select 'continue'.
9. Select the 'Recommendations' tab.
10. From the Recommendations tab, select 'Run' to configure the 'Ride level control module'
 - Follow all on-screen instructions to complete this task.
11. Exit the current session.
12. Disconnect the IDS and the Midtronics Vehicle Power Supply from the vehicle.