



# Technical Service Bulletin

No.LTB00241  
29 October  
2009

<b>Subject/Concern :</b> Front Suspension Knock Improvement
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<b>Models :</b>		
Range Rover Sport (LS)	Vehicles With Dynamic Response	Vehicles With Dynamic Response VIN- range : 983118 Onwards

**Markets :** All

**Section :** 204-01

<b>Summary :</b> A customer may report an audible knock heard from inside the vehicle when driving along a poorly maintained uneven road surface, e.g. with one wheel driving over a drain cover, with the vehicle driven straight ahead.  <b>This TSB must be carried out before carrying out LTB00204v3.</b>  For knocks generated by steering inputs over centre, refer to the latest version of LTB00198.  For steering column knocks, refer to the latest version of LTB00097 (VIN Range: 900109-122778).  For vehicles which do not have Dynamic Response fitted, refer to LTB00123v4.  <b>Cause :</b> Noise transmission into the vehicle cabin of impulses inherent to the suspension system. <b>Suggested Customer Concern Code - N50.</b>  <b>Action :</b> If a customer reports a concern of a 'knock' from the front suspension when driving over rough surfaces, carry out the Service Instruction outlined below.
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<b>Parts Required :</b>		
Description	Part Number	Quantity
Mass Absorber kit	LR020248	1

<b>Labour Time :</b>		
Operation Description	Operation No.	Time
Install Mass Absorber Kit	77.10.89/29	0.2 hours

<b>Repair/Claim Coding :</b>	
<b>Causal Part :</b>	LR020248
<b>ACES Condition Code :</b>	33
<b>Defect Code :</b>	

## Service Instruction

**NOTE : VEHICLE TESTING:** It is important to identify a test route that highlights the customer concern of suspension knock and re-test the vehicle over the same test route when identified in the following procedure. The test route should include roads that have a broken road surface or drain covers that allow one wheel inputs etc. The vehicle speed that highlights the issue should be noted during the initial appraisal of the customer concern and then replicated on the subsequent test drive.

## Body Mount Dampers

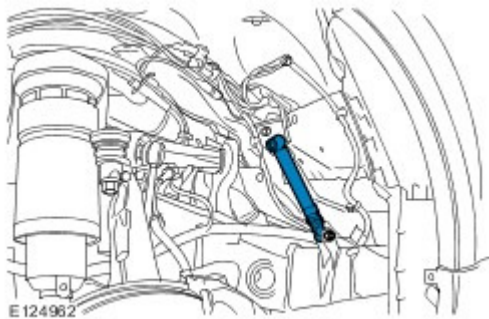
- 1 . Raise vehicle on a suitable ramp (see Global Technical Reference GTR Workshop Manual, section 100-02 - Lifting).
- 2 . Reposition road wheel to gain access to splash shield top grommet (arrow 1 in E124853).
  - 1 . Remove splash shield top grommet.



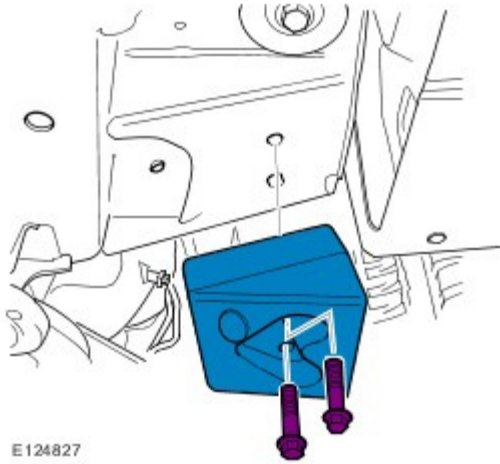
- 3 . **NOTE :** Front left-hand body mount damper shown with splash shield removed for clarity, right-hand body mount damper similar.

If installed, remove front body mount damper and discard.

- 1 . Remove top and bottom body mount damper fixings (access gained through splash shield - arrowed 1 and 2 in E124853) and withdraw damper.



- 4 . Clean the underside of the body mount 2 chassis carrier to remove any contamination.
  - 1 . Install a mass absorber to the body mount 2 chassis carrier (shown in E124827), using the two fixings per mass absorber provided in the Mass Absorber kit (LR020248). Keep the lower face of the mass parallel with the ground.
  - 2 . Tighten fixings to 115 Nm.



E124827

- 5 . Carry out steps 2 to 4 to the opposite side of the vehicle.
- 6 . To re-install the splash shield, reverse removal procedure.
- 7 . Re-test the vehicle. If the knock is still evident, carry out LTB00204v3.

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