



# Technical Service Bulletin

No.LTB00204v3  
22 May 2009

Reissue

**Please replace the previous edition of this bulletin.**

This bulletin supersedes TSB LTB00204v2/2009 dated 11 March, which should either be destroyed or clearly marked to show it is no longer valid (e.g. with a line across the page).

<b>Subject/Concern:</b>	Front Suspension Knock (Straight Ahead) – Vehicles With Dynamic Response Only
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<b>Models:</b>	
Range Rover Sport (LS)	VIN-range: 6A900290-9A211334

**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, with the vehicle driven straight ahead or with minimal hand input to the steering wheel.
<b>This Version has been issued for a change in Parts Required and a VIN Change.</b>
<b>Cause:</b> Various (see Diagnostic Procedure). <b>Suggested Customer Concern Code - C50.</b>
<b>NOTE:</b> For a 'thud' noise with steering input, refer to the latest version of Technical Bulletin LTB00198. For creak/squeak noises refer to the latest version of Technical Bulletin LS204-002 (VIN 5A901924-6A960521).
<b>Action:</b> Should a customer express concern, carry out the latest version of Technical Bulletin LTB00123. If the noise is still apparent, carry out the Diagnostic Procedure outlined below.

<b>Parts Required:</b>		
Description	Part Number	Quantity
Stabilizer Bar - 07 MY onwards	LR017271	1
Stabilizer Bar - Prior 07 MY	LR017272	1
Clamp bolt	RYP501110	2
Clamp bolt	RYP501120	4
ARC Oil	STC50519	1
Driveshaft bolt	TYG500141	6
Stabilizer bar nut	FY114056	2
ARC pipe o-rings	RVW500010	2

**NOTE:** This Technical Bulletin is for carrying out the Diagnostic Procedure only, any other repairs are to be carried out as a separate Warranty Claim.

<b>Labour Time:</b>		
Operation Description	Operation No.	Time
Dynamic Response System Diagnostic Procedure	60.60.89/50	1.2 hour

Front stabilizer bar - Renew - AJV8 Supercharged	60.60.50	2.8 hours
Front stabilizer bar - Renew - AJV8 Naturally Aspirated	60.60.50	3.4 hours
Front stabilizer bar - Renew - 2.7L	60.60.50	3.5 hours
Front stabilizer bar - Renew - TDV8	60.60.50	3.1 hours

<b>Repair/Claim Coding:</b>	
<b>Causal Part:</b>	LRO17271
<b>ACES Condition Code:</b>	33
<b>Defect Code:</b>	

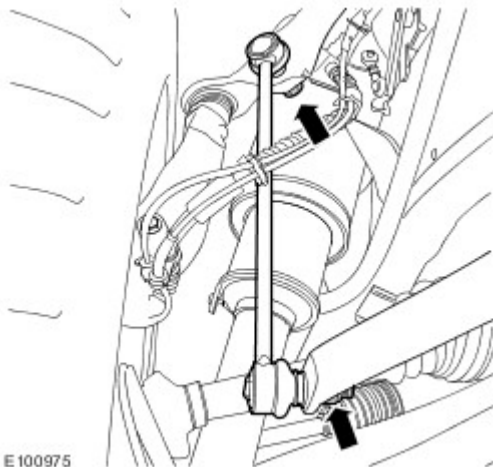
## Diagnostic Procedure

**NOTE:** Follow this bulletin only after the latest version of Technical Bulletin **LTB00123** has been followed carefully and the noise is still evident on the vehicle.

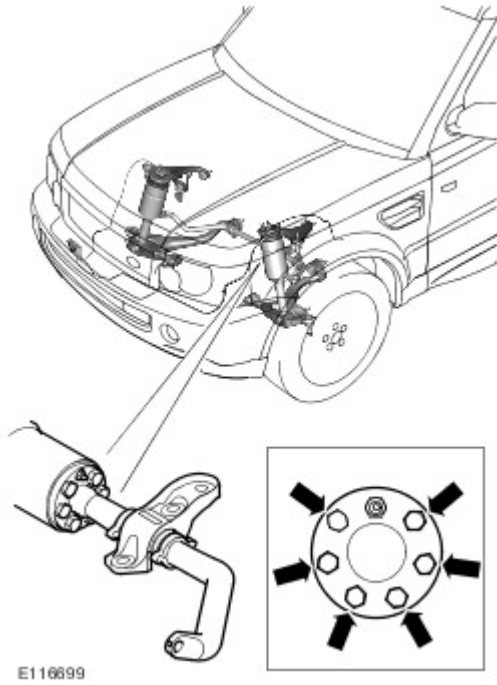
**NOTE:** Ensure vehicles prior to VIN 996253 has had the latest version of Technical Bulletin **LTB00029** carried out.

**NOTE:** Refer to GTR for all latest torque figures.

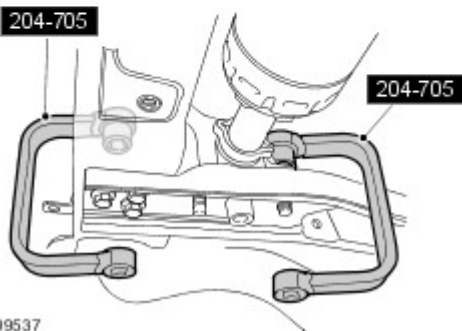
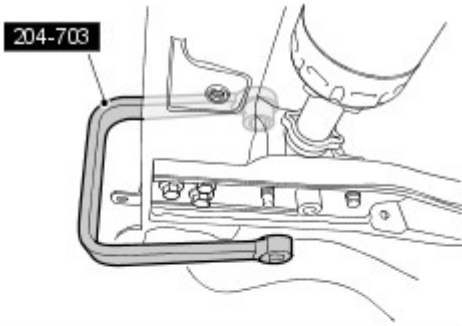
- 1 . Remove engine undershield (see Global Technical Reference GTR Workshop Manual, section 501-02).
- 2 . Check torque of stabilizer bar link (upper and lower) fixings.



- 3 . Check torque of actuator arm flange bolts to actuator body.



- 4 . Check all associated pipe routing, ensure no inadvertent pipe to frame/body contact is evident. Clear stones and contamination from pipes and shields (these are the main recognized routes for increased system noise transfer).
- 5 . Using special tools 204-703 and 204-705, check torque of front actuator clamp fixings.



- 6 . Install engine undershield (see Global Technical Reference GTR Workshop Manual, section 501-02).
  - 7 . **NOTE:** If the knock is still evident, carry on from step 8.
- Carry out a five minute road test over a rough surface.
- 8 . **NOTE:** Checking the function of the rear body mount dampers. Rear right-hand bottom fixing shown, top fixing similar. Left-hand rear body mount damper similar.

Remove both rear body mount dampers.



9 . Carry out a five minute road test over a rough surface.

10 .



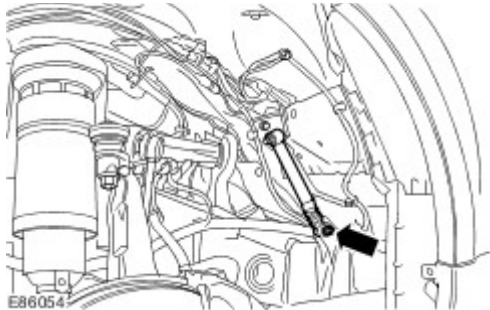
**CAUTION:** The rear body mount dampers must always be installed on customer vehicles.

**NOTE:** Time for installation of the rear dampers is included in SRO 60.60.89/50.

If the knock has improved or been eliminated, replace the rear body dampers as appropriate. If knock still apparent, reinstall the original dampers.

11 . **NOTE:** Front left-hand bottom body mount damper fixing shown, top fixing similar. Right-hand front body mount damper similar.

Remove both front body mount dampers.



12 . **NOTE:** If the knock has been eliminated at step 11, return the vehicle to the customer without refitting the front dampers. It is not necessary to install front body mount dampers on dynamic Response equipped vehicles. If the knock is still evident, carry on from step 13.

Carry out a five minute road test over a rough surface.

13 . Remove engine undershield (see Global Technical Reference GTR Workshop Manual, section 501-02).

14 . **NOTE:** Ensure the clamp and chassis faces are clean and flat and remove possible weld spatter if necessary.

**NOTE:** Fixings should be replaced every time clamps are removed.

Remove actuator clamps, stabilizer bar bushings and fixings

15 . **NOTE:** Due to high component cost, all stabilizer bar claims may be subject to a Warranty audit. Please make sure the Diagnostic Procedure described above in this Technical Bulletin is carried out before renewing the stabilizer bar.

**NOTE:** Ensure the correct stabilizer bar for the VIN of the vehicle is installed, as this eliminates the requirement of replacing the front pipe set.

If there is no obvious damage or deterioration of the mounting bush, install a new front stabilizer bar (see Global Technical Reference GTR Workshop Manual, section 204-06).

16 . Install engine undershield (see Global Technical Reference GTR Workshop Manual, section

501-02).

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