



Technical Service Bulletin 27 September 2006

Reissue

No.LS204-009V2

Please replace the previous edition of this bulletin.

This bulletin supersedes TSB LS204-009/2006 dated 31 July, which should either be destroyed or clearly marked to show it is no longer valid (e.g. with a line across the page).

Subject/Concern: Range Rover Sport - Uneven Tire Wear

Models:

Range Rover Sport (LS)

VIN-range: 5A900109-6A970174

Markets: All **Section:** 204-00

Summary:

A customer may report a concern of uneven tire wear.

This bulletin has been re-issued to change the labor time to reflect the usage of the new tight tolerance geometry setting mode.

Cause: Certain vehicles may experience a degree of 'bush settle' after the initial geometry setting following production (this has now been compensated for using calculated geometry settings introduced from the VIN above). This 'bush settle' may change the geometry settings to outside of normal tolerance and may increase tire wear. This issue is not experienced on all vehicles and the toe sensitivity may be attributed to other factors.

Action: Should it become necessary to adjust vehicle geometry due to specific complaints of tire wear, or where the components detailed below have been changed, the geometry should be set to the target values detailed in this bulletin. These target values are within the geometry specifications detailed in the workshop manual but are purposely detailed to address the above concern.

Labour Time:

Operation Description	Operation No.	Time
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Geometry alignment (includes tight tolerance mode - activate and deactivate)

57.65.04

1.80 hours

Repair/Claim Coding:

Causal Part:	ALGN4W
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ACES Condition Code:	W6
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Defect Code:	
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Service Information



CAUTION: When checking or adjusting front or rear steering geometry, the vehicle must either have a full fuel tank or have sufficient weight placed in the vehicle's load space to give the equivalent weight of a full fuel tank. The weight must be evenly distributed at the front and the right hand side of the load space. The fuel tank capacity is 86.3 liters (18.9 Imperial gallons) (22.7 US gallons). Depending on the amount of fuel in the tank, calculate the amount of weight which must be added:

1 liter of fuel weighs 0.8 kg (1.7 pounds).

1 Imperial gallon of fuel weighs 3.6 kg (8.0 pounds).

1 US gallon of fuel weighs 3.0 kg (6.7 pounds).

When setting suspension geometry specifically to correct tire wear concerns, or after front/rear, upper/lower control arm bushes component changes, the target setting for the rear (refer to the table below) should be to the maximum toe-in within specification (up to, but not greater than 22').

NOTE: Vehicles that have any of the front or rear, upper or lower control arm bushes changed should complete a ten mile road test before having the geometry set to allow the suspension to settle.

- NOTE:** The air suspension tight tolerance mode should be activated when checking/setting geometry (refer to the procedure on GTR).

Adjust the front and rear wheel alignment, using the target setting values below. For additional information, refer to Global Technical Reference (GTR) Range Rover Sport Workshop Manual Section 204-00, General Information, Specifications.

Target Values

Adjustment	Specification (degrees/minutes)
Front total toe	0° 02'
Left-hand rear toe	0° 11'
Right-hand rear toe	0° 11'
Rear total toe	0° 22'