

Reissue

Please replace the previous edition of this bulletin.

This bulletin supersedes TSB LTB00187/2008 dated 20 November, which should either be destroyed or clearly marked to show it is no longer valid (e.g. with a line across the page).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: Steering Gear Tie Rod End Replacement

Models:

Range Rover Sport (LS)

VIN-range: 900290-191876

Markets: All

Section: 211-00

Summary:

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The purpose of this bulletin is to provide clarity as to the required parts replacement for steering gears following the replacement of the M12 steering tie rod end with an M14 steering tie rod end. This version has been issued for a change to the parts description of the wheel knuckle and steering gear in appendix 1.

Cause: Production update with the ability to retro-fit new revised parts on a fix on fail basis only. Suggested Customer Concern Code H50.

Action: Should a customer express concern, see Appendix 1 and follow the Service Instruction outlined below.

Parts Required:			
Description	Part Number	Quantity	
Steering Gear	QEB500640	1	
Steering Gear	QEB500630	1	
Steering Gear	QEB500417	1	
Steering Gear	QEB500427	1	
Wheel Knuckle	RUB500320	1	
Wheel Knuckle	RUB500330	1	
M14 Tie Rod End Kit	LR010673	1	
M12 Tie Rod End Kit	LR010674	1	
M12 Outer Ball Joint Kit	LR010675	1	
M14 Outer Ball Joint Kit	LR010676	1	

Labour Time:		
Operation Description	Operation No.	Time
Steering Gear Linkage Checking Procedure	57.35.10	0.2 hours
Tie rod - Set - Inner - Renew (Without Wheels Removed)	57.55.05	0.8 hours
Tie rod - Set - Outer - Renew (Without Wheels Removed)	57.55.08	0.5 hours
Ball Joint Tie Rod End Outer - Each	57.55.07	0.3 hours
Ball Joint Tie Rod End - Set	57.55.08	0.5 hours
Ball Joint Tie Rod End Inner LH	57.55.03	0.5 hours
Ball Joint Tie Rod End Inner RH	57.55.04	0.5 hours

Steering gear - Renew - 4.4L	57.10.01/06	0.8 hours
Steering gear - Renew - 2.7L Diesel	57.10.01/06	1.0 hour
Steering gear - Renew - 4.2L SC	57.10.01/06	1.2 hours
Steering gear - Renew - 3.6L TDV8	57.10.01/06	1.3 hours
Wheel knuckle - Both sides - Renew	60.25.03	2.4 hours
Front wheel alignment	57.65.01	1.1 hours

Repair/Claim Coding:		
Causal Part:	QEB500630	
ACES Condition	42	
Code:	42	
Defect Code:		

Appendix 1

NOTE: In all cases where front suspension damage has occurred (for example damaged lower control arm), dealers are requested to inspect all parts of the steering gear and follow the replacement requirements below. You are reminded that repairs undertaken for damage may not be claimable as Warranty.

NOTE: For all repairs, check MicroCat for the latest part levels and required fixings.

Reason for Repair	Required Repair	Parts Required
Steering gear housing is damaged due to impact abuse, possible symptoms include broken housing, notchiness or binding/broken casting.	Replace steering gear with M14 outer ball joint level along with both wheel knuckles.	Steering gear QEB500640 (LHD) or QEB500630 (RHD) Wheel Knuckle RUB500320 (RH) and RUB500330 (LH)
	 If gear housing is structurally damaged or if gear exhibits notchiness or binding then replace complete steering gear to M14 outer ball joint level along with both Wheel knuckles. If gear suitable for repair install a new tie rod kit which includes the M14 outer ball joint. Wheel knuckle change required. Replace both LH and RH units. 	1) Steering Gear QEB500640 (LHD) or QEB500630 (RHD) Wheel knuckle RUB500320 (RH) and RUB500330 (LH) OR 2) M14 Tie rod kit LR010673 (2 required) Knuckle RUB500320 (RH) and RUB500330 (LH)
Outer ball joint is damaged or deformed (the taper in the knuckle may be damaged).	 If gear housing is structurally damaged or if gear exhibits notchiness or binding then replace complete gear to M14 outer ball joint level along with wheel knuckles. 2) If gear is suitable for repair install a new tie rod kit which includes the M14 outer ball joint. Wheel knuckle change required. Replace both LH and RH units. 	1) Steering Gear QEB500640 (LHD) or QEB500630 (RHD) Wheel knuckle RUB500320 (RH) and RUB500330 (LH) OR 2) M14 Tie rod kit LR010673 (2 required) Wheel knuckle RUB500320 (RH) and RUB500330 (LH)
	If The Steering Gear Requires Service For Any Other Reason Than Damage	
Steering gear requires replacement due to normal wear and tear or performance	Replace steering gear with like for like.	Steering gear QEB500427 (LHD) (M12) or QEB500417 (RHD) (M12) OR QEB500640

concern.		(LHD) (M14) or QEB500630 (RHD) (M14)
		M12 Tie rod kit LR010674 OR M14 Tie rod kit LR010673
Outer ball joint has free-play due to normal wear and tear.	Replace outer ball joint with like for like item.	M12 outer ball joint kit LR010675 OR M14 outer ball joint kit LR010676

Service Instruction

1. Tie rod - Set - Renew (see Global Technical Reference GTR Workshop Manual, section 211-03).

1 For vehicles fitted with an M12 nut, install a new nut and tighten to 76 Nm (56 lb.ft).

2 For vehicles fitted with an M14 nut, install a new nut and tighten to 150 Nm (111 lb.ft). .

- 2. Steering gear Renew (see Global Technical Reference GTR Workshop Manual, section 211-02).
- 3. Wheel knuckle Both sides Renew (see Global Technical Reference GTR Workshop Manual, section 204-01).
- 4. Four-wheel alignment (see Global Technical Reference GTR Workshop Manual, section 204-00).

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