

TECHNICAL BULLETIN

No: LTB00400 (ISSUE 1)
30 AUG 2011

RANGE ROVER



CIRCULATE TO: SERVICE ✓ PARTS ✓ WARRANTY ✓ BODY SHOP

SECTION: 211

Steering Wheel Shimmy / Vibration While Driving

AFFECTED VEHICLE RANGE:

LR4 (LA)

VIN: AA510742 - BA555717

Model Year: 2010 - 2011

Range Rover Sport (LS)

VIN: AA212147 - BA267671

Model Year: 2010 - 2011

CONDITION SUMMARY:

Situation: The steering wheel may exhibit a shimmy / vibration while driving at highway speeds. This may be evident with or without brake system application.

△ **NOTE:** Ensure the vehicle is to original specification (wheels, tires) prior to performing the Repair Procedure outlined below. Refer to Technical Bulletin LTB00401, *Tire / Wheel Balancing and Optimization*, for wheel balancing information prior to performing the Repair Procedure outlined below.

Action: In the event of a customer concern of the above, refer to the chart and perform the appropriate Repair Procedure(s).

PARTS:

△ **NOTE:** Range Rover Sport only -- as non-heated steering wheels are no longer available, heated steering wheels replace non-heated steering wheels; however, the heated function will not be functional if not originally fitted on the vehicle.

LR031744	Steering gear - Range Rover Sport	Qty: 1
LR025794	Steering gear - LR4	Qty: 1
LR025986	Lower arm hydra-bush - LR4, Range Rover Sport	Qty: 2
LR024056	Steering wheel - LR4 - Ebony	Qty: 1
LR023953	Steering wheel - Range Rover Sport - Ebony	Qty: 1
LR023954	Steering wheel - Range Rover Sport - Ebony / Tan	Qty: 1
LR023955	Steering wheel - Range Rover Sport - Ebony / Pimento	Qty: 1
LR023958	Steering wheel - Range Rover Sport - Ebony + Paddle-shift	Qty: 1
LR023959	Steering wheel - Range Rover Sport - Ebony / Tan + Paddle-shift	Qty: 1
LR023960	Steering wheel - Range Rover Sport - Ebony / Pimento + Paddle-shift	Qty: 1

TOOLS:

Refer to Workshop Manual for any required special tools

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.

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 (0).

LR4 VIN RANGE	COMPONENTS TO BE REPLACED		
	LOWER ARM HYDRA-BUSH	STEERING GEAR	STEERING WHEEL
AA510742 - BA550987	✓	✓	✓
BA550988 - BA551693		✓	✓
BA551694 - BA555717			✓

RANGE ROVER SPORT VIN RANGE	COMPONENTS TO BE REPLACED		
	LOWER ARM HYDRA-BUSH	STEERING GEAR	STEERING WHEEL
AA212147 - BA262114	✓	✓	✓
BA262115 - BA265552		✓	✓
BA265553 - BA267671			✓

DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
Steering wheel - renew LR4 - all	57.61.01	0.30	D9	QEB500640
Hydra-bush lower control arm - vehicle set - renew LR4 - AA510742 - BA550987 only	60.35.36	1.30		
Steering gear - renew LR4 - AA510742 - BA551693 only	57.10.01	0.90		
Steering wheel - renew Range Rover Sport - all	57.61.01	0.40		
Hydra-bush lower control arm - vehicle set - renew Range Rover Sport - AA212147 - BA262114 only	60.35.36	1.40		
Steering gear - renew Range Rover Sport - AA212147 - BA265552 only	57.10.01	1.00		
Front wheel alignment	57.65.01	1.10		

Normal Warranty policies and procedures apply

REPAIR PROCEDURE

BALANCE ROAD WHEEL / TIRE ASSEMBLIES

LR4: ALL

RANGE ROVER SPORT: ALL



NOTE: Wheel / tire assembly balancing and optimization must be completed before renewing the lower arm bushing, steering gear assembly, and steering wheel.

1. Refer to Workshop Manual, section 204-04: *Wheels and Tires*, and Technical Bulletin LTB00401, *Tire / Wheel Balancing and Optimization*, and balance and optimize the road wheels and tires. To be carried out as a separate claim.

INSTALL LEFT AND RIGHT FRONT SUSPENSION LOWER ARM REAR HYDRA-BUSHES -

LR4: AA510742 - BA550987 ONLY

RANGE ROVER SPORT: AA212147 - BA262114 ONLY



NOTE: Ensure the vehicle is at Standard Ride Height before the front lower suspension arm fixings are torqued.



NOTE: Wheel / tire assembly balancing and optimization must be completed before renewing the lower arm bushing, steering gear assembly, and steering wheel.

1. Refer to Workshop Manual, section 204-01: *Front Suspension*, and remove the left-hand (LH) front suspension lower arm rear bushing (steps 1-13, 16-17 only).
2. Refer to Workshop Manual, section 204-01: *Front Suspension*, and install the LH front suspension lower arm rear hydra-bush (steps 1-2, 5 -12 only).
3. Repeat steps 1-2 to the right-hand (RH) front suspension lower arm rear bushing.

REPLACE STEERING GEAR ASSEMBLY

LR4: AA510742 - BA551693 ONLY

RANGE ROVER SPORT: AA212147 - BA265552 ONLY



NOTE: The new steering gear may be equipped with outer tie rod ends. If so, discard and re-use the originally-fitted outer tie rod ends.



NOTE: After replacing the steering gear, the customer may notice that the steering feels 'heavier'; this is normal.



NOTE: Wheel / tire assembly balancing and optimization must be completed before renewing the lower arm bushing, steering gear assembly, and steering wheel.

1. Refer to Workshop Manual, section 211-02: *Power Steering*, and replace the steering gear.

REPLACE STEERING WHEEL

LR4: ALL

RANGE ROVER SPORT: ALL



NOTE: Wheel / tire assembly balancing and optimization must be completed before renewing the lower arm bushing, steering gear assembly, and steering wheel.

1. Refer to Workshop Manual, section 211-04: *Steering Column*, and replace the steering wheel.