

**TECHNICAL BULLETIN**  
**LTB00553NAS2**  
**09 OCT 2015**



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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.

**This reissue replaces all previous versions. Please destroy all previous versions.**

Changes are highlighted in gray

**SECTION: 308-07B**

**Transfer Case Noise**

**AFFECTED VEHICLE RANGE:**

**Range Rover (LG)**

**Model Year:** 2013  
**VIN:** 000010-124981  
**Manufacturing Plant:** Solihull

**MARKETS:**

NAS

**CONDITION SUMMARY:**

**Situation:** A rubbing/scraping/drone-type noise and/or a vibration may appear to be evident from the front left-hand corner of the vehicle. The noise may also be described as similar to a brake rubbing or wheel bearing noise and can be variable from vehicle to vehicle. The issue can occur at different speeds/gears and in steady state driving conditions up to 50/60mph (80/100km/h). The noise in most cases is more prominent in second gear coast down, particularly around 12mph (20km/h). To confirm the transfer case is the root cause, the noise can listened to using a 'Chassis Ear' fixed to front differential right-hand mount.

**Cause:** This may be caused by a chordal vibration of the transfer case chain on coast/overrun.

**Action:** Refer to SSM67137, Transfer Case Noise Diagnosis Reference LTB00553NAS1, for a sound file of the noise. Should a customer express this concern, follow the Service Instruction outlined below.

**PARTS:**

LR049160	Transfer Case assembly	Quantity: 1
LR038842	Front differential support bracket - 5.0L NA V8	Quantity: 1
FB110186	Bolt	Quantity: 1
FS110256	Bolt	Quantity: 2

**TOOLS:**

Refer to Workshop Manual for any required special tools.

**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 TOPIx to obtain the latest repair time.**

**NOTE: DDW requires the use of causal part numbers. Labor only claims must show the causal part number with a quantity of zero.**

DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART

Transfer gearbox - 5.0L NA/SC V8 - Renew	<b>41.20.25</b>	3.80	42	LR045477
Front differential support bracket - 5.0L NA V8 - Install	<b>54.10.89.48</b>	0.30	42	LR045477

 **NOTE: Normal Warranty procedures apply.**

**DIAGNOSTIC PROCEDURE:**

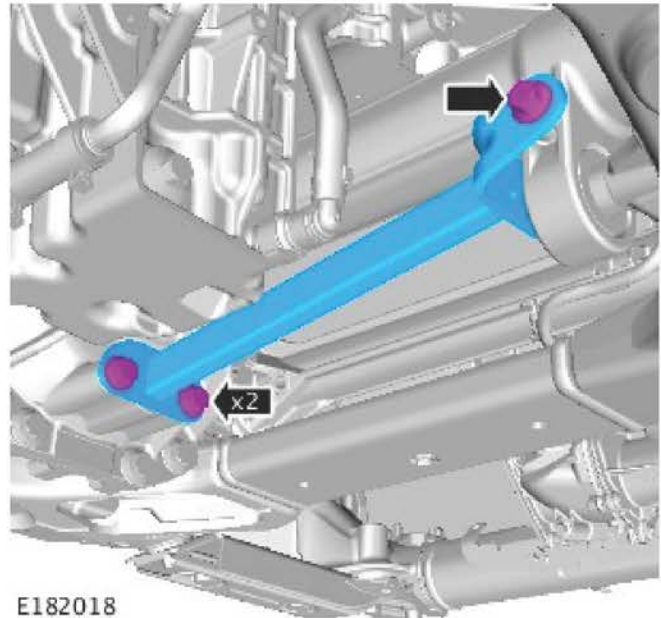
**1** Using 'chassis ears' (or similar) affixed to the front differential right-hand mount, verify noise is coming from the transfer case.

- **Vehicles with 5.0L SC V8 engine only:** if the noise is coming from the front differential area, continue to the Service Instruction below to renew the transfer case.
- **Vehicles with 5.0L NA V8 engine only:** if the noise is coming from the front differential area, continue to the next step.

**2**  **NOTE: vehicles with 5.0L NA V8 engine only.**

Install the front differential support bracket.


- Torque: 50Nm.
  - If the noise is no longer coming from the front differential area, no further action is required.
  - If the noise is still coming from the front differential area, continue to the Service Instruction below to renew the transfer case.



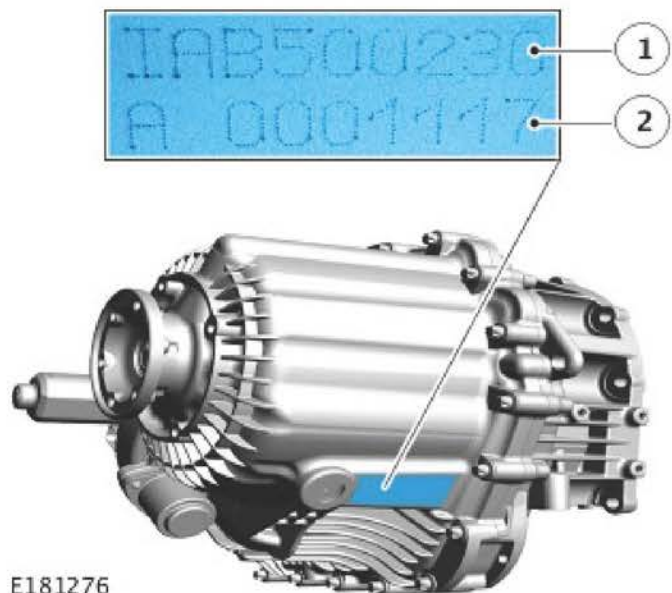
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**SERVICE INSTRUCTION:**

All vehicles (unless noted in step 2 of Diagnostic Procedure)

**1**  **NOTE: inspect the serial number on the transfer case ('2'). Make sure the serial number of the transfer case being fitted is post 'A 1025861'.**

Replace the transfer case assembly (see TOPIx Workshop Manual, section 308-07B: Transfer Case).



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