

TECHNICAL BULLETIN
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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. Only refer to the electronic version of this Technical Bulletin in TOPIx.

Changes are highlighted in gray

SECTION: 303-12C

Supercharger 'Clattering' / 'Knock' / 'Rattle' Noise - 5.0L V8 SC Engine

AFFECTED VEHICLE RANGE:

Range Rover Sport (LS) Model Year: 2010-2013 VIN: AA212147-DA814820	Engine: V8 S/C 5.0L Petrol
Range Rover Sport (LW) Model Year: 2014 Onwards VIN: EA000001 Onwards	Engine: V8 S/C 5.0L Petrol
Range Rover (LM) Model Year: 2010-2012 VIN: AA304426-CA393639	Engine: V8 S/C 5.0L Petrol
Range Rover (LG) Model Year: 2013 Onwards VIN: DA000183 Onwards	Engine: V8 S/C 5.0L Petrol

MARKETS:

NAS

CONDITION SUMMARY:

Situation: A 'clattering' / 'knock' / 'rattle' noise may be heard from the engine.

Cause: This may be caused by torsional isolator and/or the torsional isolator spring support shaft wear causing excessive backlash in the supercharger drive.

Action: Should a customer express this concern, follow the Service Instruction outlined below.

PARTS:

LR058080	Supercharger spring isolator kit - 5.0L V8 SC - Range Rover Sport (L320), Range Rover (L322)	Quantity: 1 (as required)
LR058083	Supercharger spring isolator kit - 5.0L V8 SC - Range Rover Sport (L494), Range Rover (L405)	Quantity: 1 (as required)
LR011585	Gasket - Right-hand	Quantity: 1
LR011586	Gasket - Left-hand	Quantity: 1

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
Isolator - Supercharger - Renew - 5.0L V8 SC - Range Rover Sport (L320)	19.46.24	4.2	01	LR032056
Isolator - Supercharger - Renew - 5.0L V8 SC - Range Rover Sport (L494)	19.46.24	4.6	01	LR032056
Isolator - Supercharger - Renew - 5.0L V8 SC - Range Rover (L322)	19.46.24	4.0	01	LR032056
Isolator - Supercharger - Renew - 5.0L V8 SC - Range Rover (L405)	19.46.24	4.6	01	LR032056

 **NOTE: Normal Warranty policies and procedures apply.**

REPAIR PROCEDURE:

-  **NOTE: Removal of the supercharger drive belt and running of the engine to verify the noise is emanating from the supercharger assembly must be done prior to the fitting of a new supercharger assembly.**

Remove the supercharger drive belt and rotate the supercharger pulley by hand:

- If there is a 'clunk' / 'knock' noise from the supercharger or significant free play when turning the pulley before the rotors start to turn and **not** one of the symptoms below, install a supercharger spring isolator kit (see TOPIx Workshop Manual, section 303-12C).
- If any of the following symptoms are present, replace the supercharger assembly. To be performed as a separate claim.
 - The pulley does not rotate freely ('sticks', difficult to move, roughness felt in bearing); **and/or**
 - The blades / rotors are damaged; **and/or**
 - Customer reported excessive 'whine' noise.