

LTB00154NAS4



TECHNICAL BULLETIN

16 NOV 2017

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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.

INFORMATION

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

Changes are highlighted in blue

SECTION:

211-02: Power Steering

SUBJECT/CONCERN:

Squeak Noise From Steering Gear

AFFECTED VEHICLE RANGE:

MODEL:	MODEL YEAR:	VIN:	ASSEMBLY PLANT:
LR3 (LA)	2005-2009	000360-513325	Solihull
LR4 (LA)	2010-2016	510742-847658	Solihull

MARKETS:

NORTH AMERICA

CONDITION SUMMARY:**SITUATION:**

A 'squeak' noise may be heard from the steering column area when turning the steering wheel.

CAUSE:

This may be caused by a lack of lubrication to the power steering gear pinion seal.

ACTION:

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

PARTS:

PART NUMBER	DESCRIPTION	QUANTITY
LR010545	Steering rack pinion seal kit	1
QYG500100	Steering column bolt	1
QYH500160	Tie-rod end nuts	2
FC114136	Steering gear mounting bolts	2

PART NUMBER	DESCRIPTION	QUANTITY
FS108166M	Screw M8 x 16 mm	1
LR020210	6 mm O-ring seal	1
LR009346	11 mm O-ring seal	1

TOOLS:

Refer to Workshop Manual for any required special tools.

WARRANTY:

NOTES:

- 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 JLR claims submission system to obtain the latest repair time.
- The JLR Claims Submission System 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
Replace pinion oil seal - V6 3.0L S/C Petrol	57.15.89.41	2.4	42	LR011316
Replace pinion oil seal - V6 4.0L Petrol	57.15.89.41	2.2	42	LR011316
Replace pinion oil seal - V8 4.4L Petrol	57.15.89.41	2.3	42	LR011316
Replace pinion oil seal - V8 5.0L Petrol	57.15.89.41	2.2	42	LR011316

NOTE:

Normal Warranty procedures apply.

SERVICE INSTRUCTION:

- 1 Remove steering gear (see TOPIx Workshop Manual section 211-02: Power Steering).

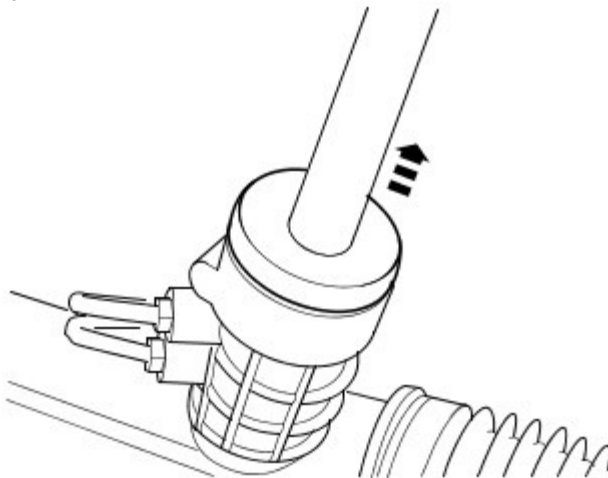
2

CAUTION:

Do not over tighten the vice or damage the feed pipes.

Secure steering gear in vice (using soft-jaws to protect the housing) with the pinion located vertically.

3

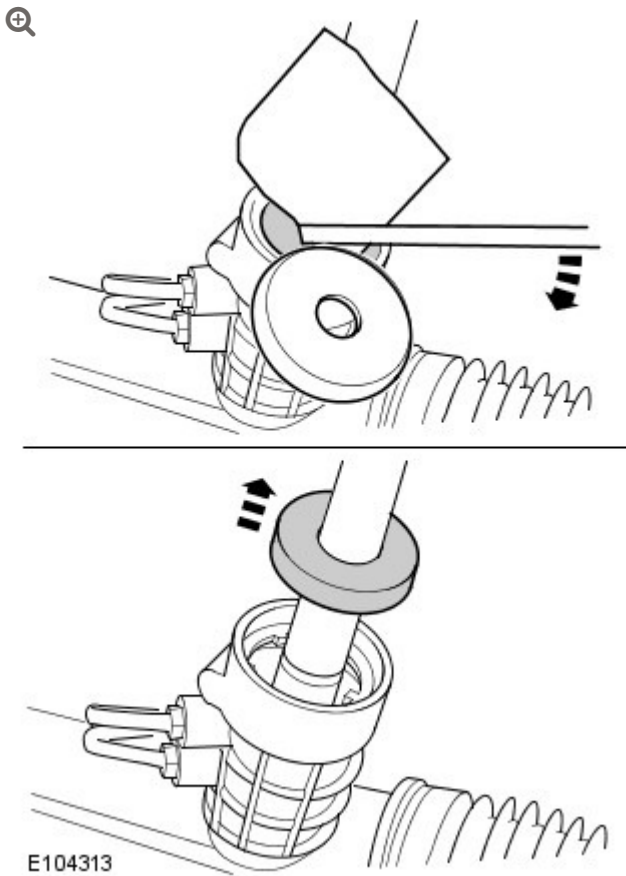


E104312

Remove (by hand) the top white dust cover and discard.

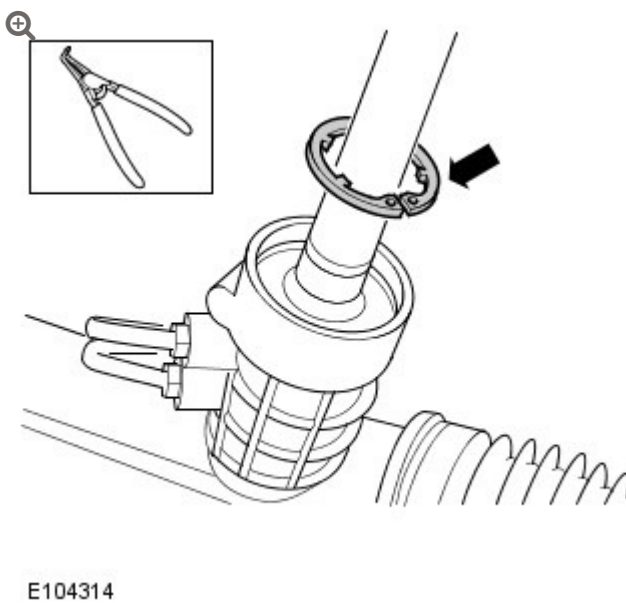
- Clean the cavity, housing, and shaft of any excess grease.

4



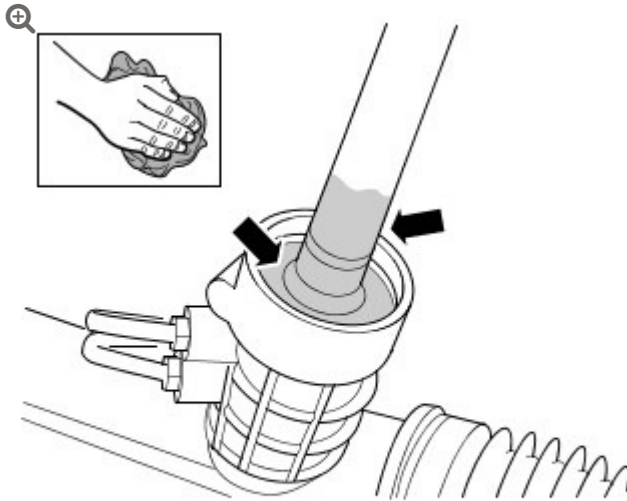
Using a suitable lever and a protective card to protect the pinion housing, pry the black dust excluder from the housing and discard.

5



Using suitable internal pliers, remove the circlip situated in the cavity and place aside.

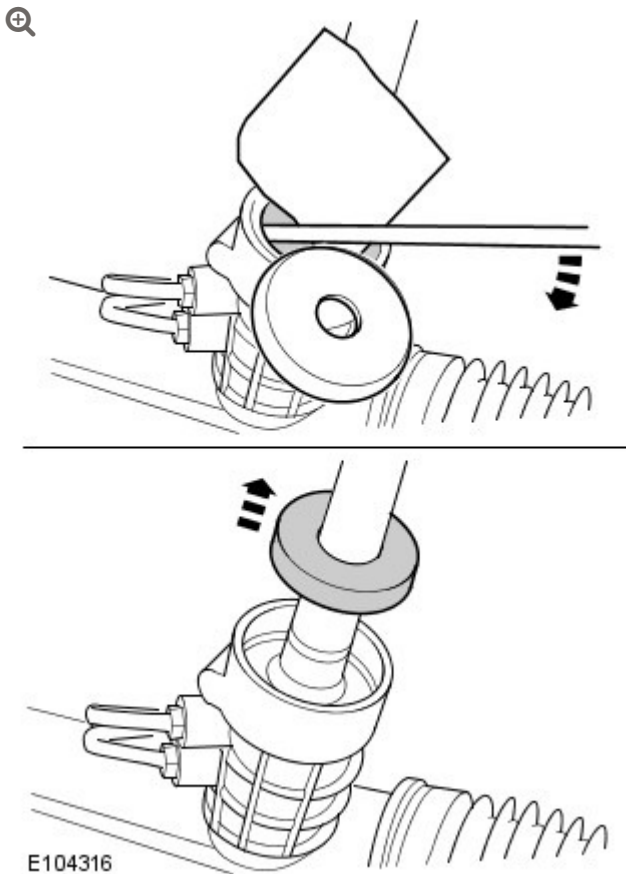
6



E104315

Clean the cavity, housing and shaft of any excess grease.

7

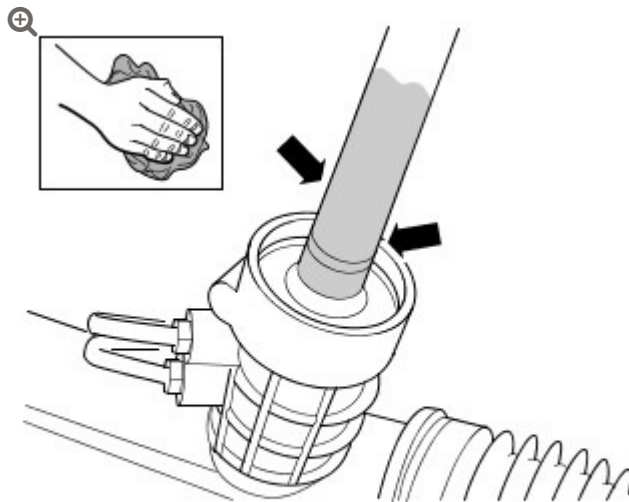


Using a suitable lever, an 8mm flat screw driver and a protective card against the pinion, carefully prize the black top seal from the housing and discard.

8

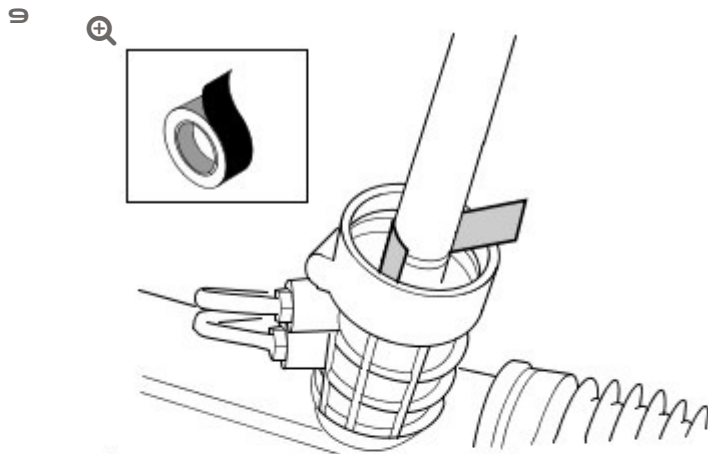
NOTE:

If any gouge/scratch or damage has occurred to the internal surfaces of the housing, a new steering gear must be installed.



E104317

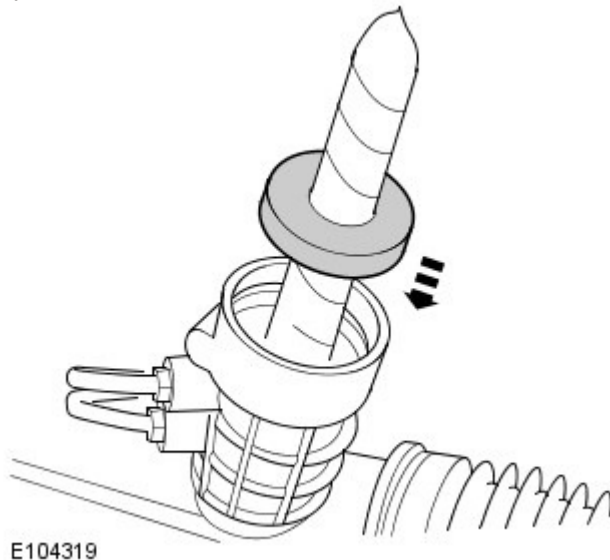
Clean the pinion shaft and verify that no damage has occurred to the pinion diameter while removing the seal.



E104318

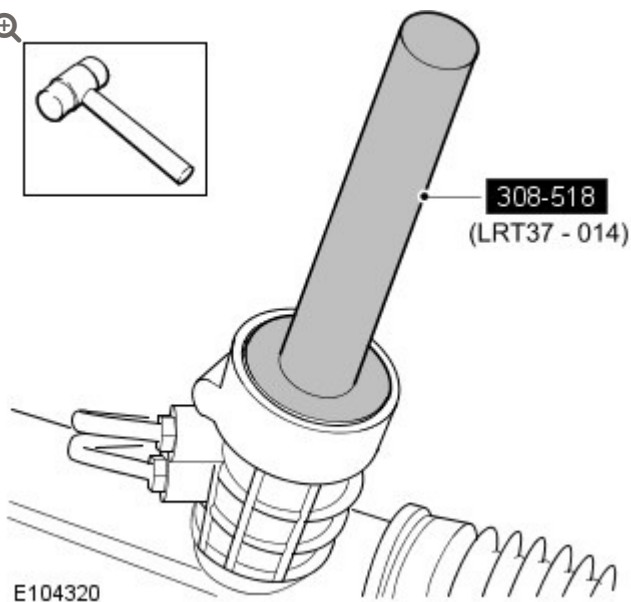
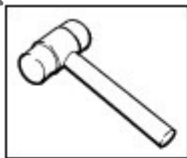
Place clean adhesive tape around the pinion (starting at the lower chamfer and winding upwards) to cover the input shaft completely.

10



Install (by hand) the new hydraulic top seal over the pinion and slide down the pinion.

11

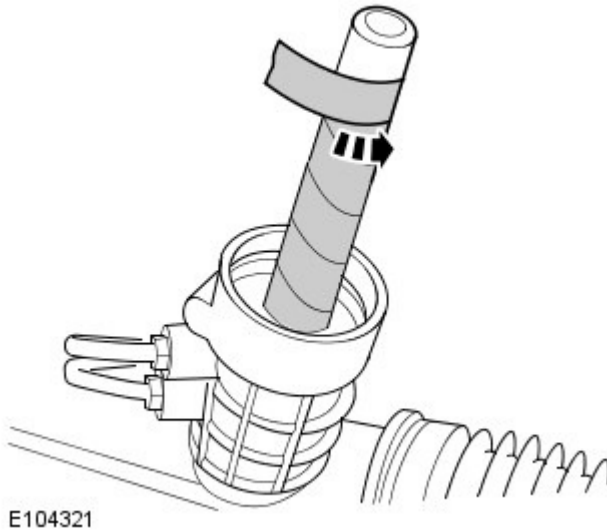


Use special tool LRT37-014 (308-518) to install the new seal; apply squarely and firmly into the housing against the top bearing.

12

CAUTION:

Do not use sharp objects to remove the adhesive tape.

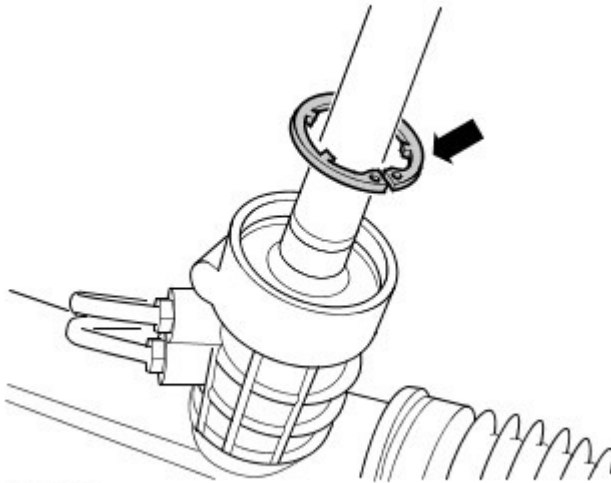


Peel off and remove all the adhesive tape from the pinion and discard.

13

CAUTION:

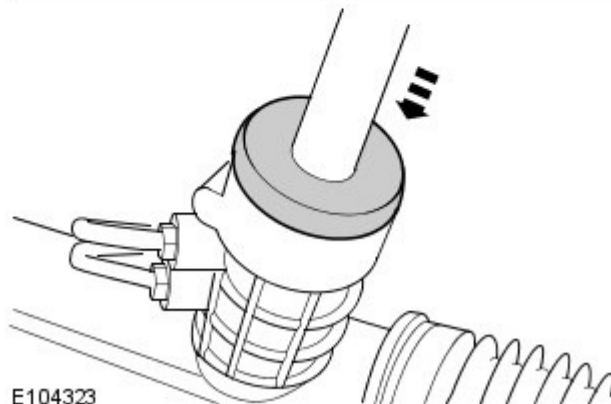
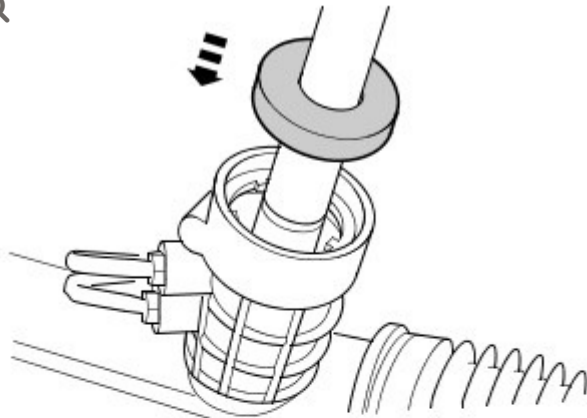
Ensure that the circlip is correctly located in the slot, by visually verifying by the extension of the circlip ears. Verify that the circlip gap is correct when installed, using suitable vernier callipers.



E104322

Install the circlip, ensuring that the circlip is correctly located.

14



E104323

Install (by hand) the new dirt excluder and dust cover, ensuring that they are firmly seated.

15 Install steering gear (see TOPIx Workshop Manual section 211-02: Power Steering).

16 Start vehicle and check the area around the top of the steering housing for leaks.