

TECHNICAL BULLETIN

No: LTB00154 (ISSUE 2)
31 AUGUST 2010



CIRCULATE TO: SERVICE ✓ PARTS ✓ WARRANTY ✓ BODY SHOP ✓

ISSUE '2' CHANGES ARE HIGHLIGHTED IN GRAY

SECTION: 211

Squeak from Steering Gear

AFFECTED VEHICLE RANGE:

LR3 (LA)

VIN: 5A000360 - 9A513325

Model Year: 2005 - 2009

LR4 (LA)

VIN: AA510742 - BA551544

Model Year: 2010 - 2011

CONDITION SUMMARY:

Situation: While turning the steering wheel, a 'squeak' noise may be heard from the steering column area. This noise may be caused by a lack of lubrication to the power steering gear pinion seal.

Action: Only in the event of a customer concern of the above, refer to the Repair Procedure below to install a steering gear pinion seal kit.

PARTS:

LR010545Steering gear pinion seal kit

Qty: 1

STC50519PAS Fluid - Texaco Cold Climate PSF 14315

Qty: As needed

TOOLS:

LRT37-014Steering gear pinion seal installer

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.

DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
Replace pinion oil seal - 4.0L V6	57.15.89/41	1.10	42	LR011316
Replace pinion oil seal - 4.4L V8		1.20		
Replace pinion oil seal - 5.0L V8		1.10		

Normal Warranty policies and procedures apply

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.

REPAIR PROCEDURE:

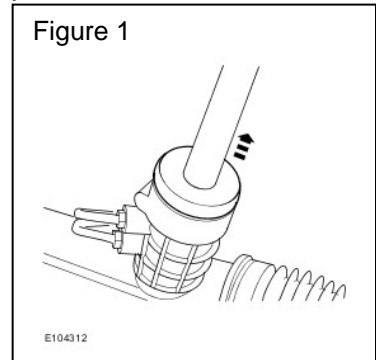
REPLACE STEERING GEAR PINION SEAL

1. Refer to Workshop Manual section 211-02: Power Steering > Removal and Installation > *Steering Gear* to remove the steering gear.



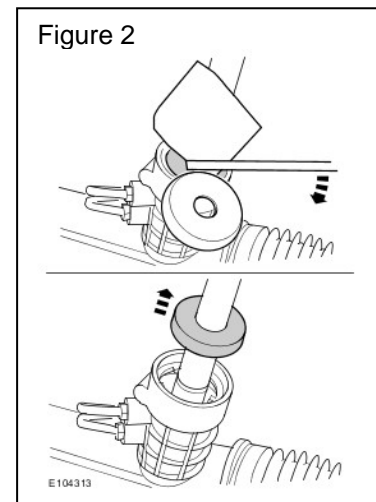
CAUTION: Do not over-tighten vice or damage feed pipes.

2. Using soft-face jaws, secure steering gear in vice with pinion located vertically.
3. Remove and set aside the top white dust cover. (Figure 1)
4. Clean the cavity, housing and pinion of any excess grease.

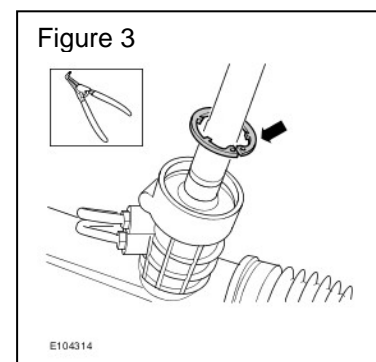


CAUTION: Do not damage pinion and pinion housing.

5. With a protective card against the pinion and the removed white dust cover to protect the pinion housing, use a suitable lever to remove and discard the black dust excluder from the pinion housing. (Figure 2)



6. Using suitable internal pliers remove and set aside the circlip. (Figure 3)



7. Clean pinion, housing and cavity of excess grease. (Figure 4)

△ NOTE: If any gouge or scratch damage has occurred, a new steering gear must be installed.

8. Verify no damage has occurred to the pinion and housing.

9. Place clean adhesive tape around the pinion:

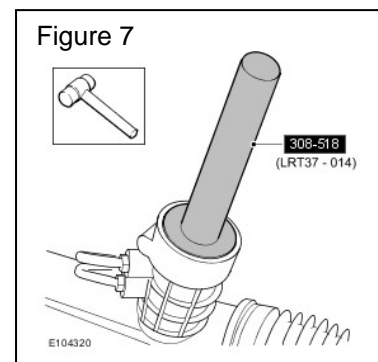
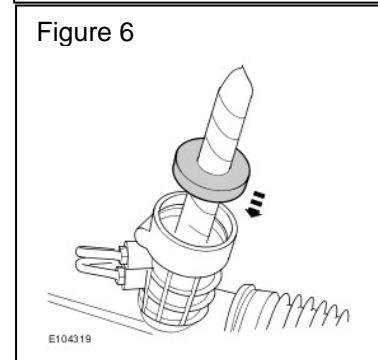
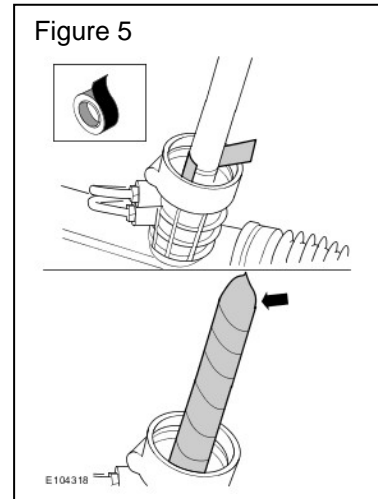
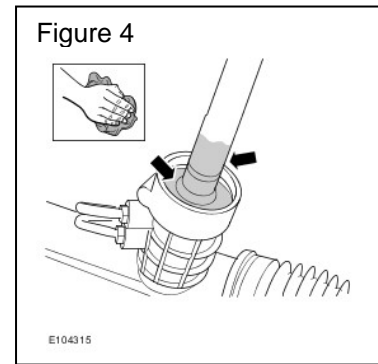
- Starting at the lower pinion chamfer, wind the tape upwards to cover the pinion completely. (Figure 5)

10. Install by hand the **new** hydraulic top seal over the pinion.

11. Slide the **new** hydraulic top seal down the pinion. (Figure 6)

12. Using special tool LRT37-014 (**303-518**), fully install the **new** hydraulic top seal: (Figure 7)

- Apply square and firm pressure to fully seat the seal in the housing against the top bearing.

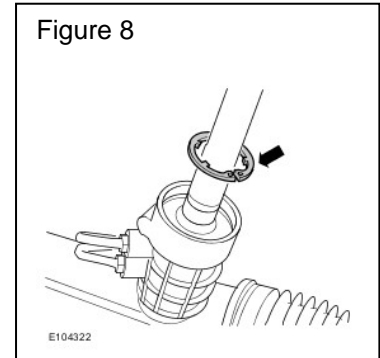


 **CAUTION: Do not use sharp objects to remove the adhesive tape.**

13. Remove and discard the adhesive tape from the pinion.

 **CAUTION: Ensure the circlip is correctly located in the slot by visually inspecting the extension of the circlip ears.**

14. Install the circlip, ensuring correct location. (Figure 8)



15. Install by hand the **new** dirt excluder and top dust cover: (Figure 9)

- Ensure the dirt excluder and dust cover are firmly seated.

16. Refer to Workshop Manual section 211-02: Power Steering > Removal and Installation > *Steering Gear*, and install the steering gear.

17. Start engine.

18. Verify no fluid leaks are evident from the steering housing.

