



# Technical Service Bulletin

No.JTB00055  
07 August 2007

Reissue

Please replace the previous edition of this bulletin.

This bulletin supersedes TSB A211-002v7/2006 dated 08 September, which should either be destroyed or clearly marked to show it is no longer valid (e.g. with a line across the page).

This bulletin supersedes TSB B211-001v5/2006 dated 08 September, which should either be destroyed or clearly marked to show it is no longer valid (e.g. with a line across the page).

This bulletin supersedes TSB S211-004v6/2006 dated 08 September, which should either be destroyed or clearly marked to show it is no longer valid (e.g. with a line across the page).

<b>Subject/Concern:</b>	Steering Gear Squeak
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<b>Models:</b>		
S-TYPE		VIN-range: M45255 Onwards
X-TYPE		VIN-range: C00294 Onwards
XJ Range		VIN-range: G00442 Onwards

**Markets:** All

**Section:** 211-00

<b>Summary:</b>
This bulletin addresses the possibility of a squeaking noise being emitted from the power steering system.
<b>This version has been issued due to a change in the Labor Time and Service Instruction.</b>
<b>Cause:</b> The power steering pinion seal lacks lubrication and dries out.
<b>Action:</b> Should a customer express concern, add the specified fluid additive (see 'Parts Required') to the power steering system and maneuver the steering wheel to lubricate the pinion seal. Follow the Service Instruction outlined below. Note that this Bulletin is to fix 'squeaks' only.

<b>Parts Required:</b>		
<b>Description</b>	<b>Part Number</b>	<b>Quantity</b>
Fluid additive	C2S 48887	1

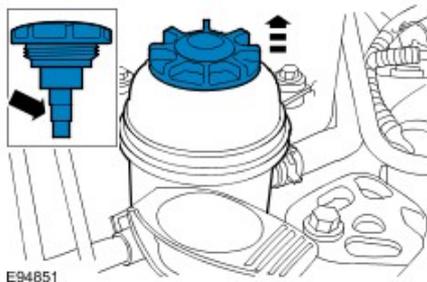
<b>Labour Time:</b>		
<b>Operation Description</b>	<b>Operation No.</b>	<b>Time</b>
Power Steering Squeaking Noise - Service Fix	57.91.29/01	0.2 hours

<b>Repair/Claim Coding:</b>	
<b>Causal Part:</b>	C2S 48887
<b>ACES Condition Code:</b>	42
<b>Defect Code:</b>	

## Service Instruction

**NOTE:** This Service Instruction must be carried out in conjunction with SSM 34548, which contains a video clip showing the procedure.

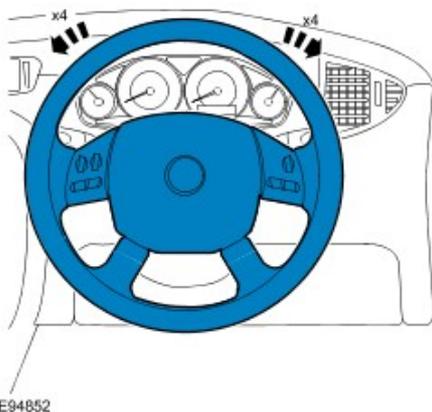
- 1 . Open driver door.
- 2 . Ensure the gear lever is in neutral/park, the parking brake is 'ON', and the ignition is 'OFF'.
- 3 . Open hood and install fender protectors.
- 4 . Remove the power steering fluid reservoir cap (and filter mesh on XJ and S-Type vehicles) and ensure the fluid level is correct.



- 5 . Using a suitable clean syringe, remove 50ml of steering fluid.
- 6 . Replenish the power steering fluid reservoir with 50ml of the specified fluid additive. The fluid additive must only be added once, and the supplied label must then be affixed to the power steering reservoir to show that it has been added.
- 7 . **NOTE:** Ensure suitable temperature reading equipment is positioned into the power steering fluid reservoir, (filter mesh must be removed on XJ and S-Type vehicles) and that the temperature can be read while carrying out the heating process.

Insert the temperature reading equipment probe into the power steering fluid reservoir (about halfway into the depth of the fluid).

- 8 . Turn ignition 'ON' and start the engine.
- 9 . With the engine idling, turn the steering wheel from end-lock to end-lock four times (to cycle the fluid additive into the system).



#### Heating the steering fluid to $100 \pm 5^\circ\text{C}$

- 10 .  **CAUTION: Under no circumstances turn the steering wheel to end-lock while heating the steering fluid (to avoid damage to the steering system).**

 **CAUTION: While carrying out the following procedure, ensure that  $105^\circ\text{C}$  is not exceeded.**

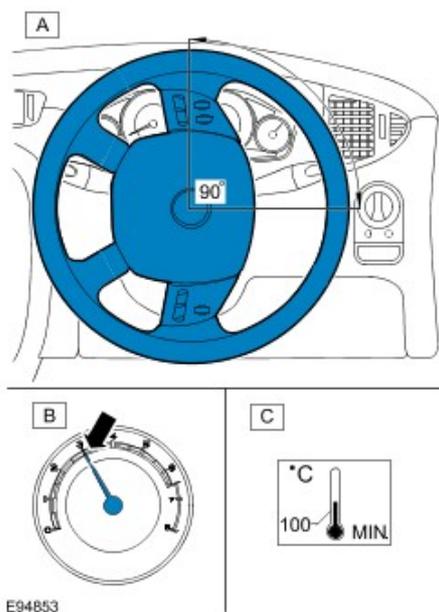
While stationary and with the steering wheel in the centre position (road wheels in the straight ahead position), turn the steering wheel  $90^\circ$  (quarter turn) right and hold firmly with both hands.

1 Increase the engine speed to 3000rpm.

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2 Monitor the power steering fluid temperature until  $100 \pm 5^\circ\text{C}$  is reached.

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### Performing the steering manoeuvre

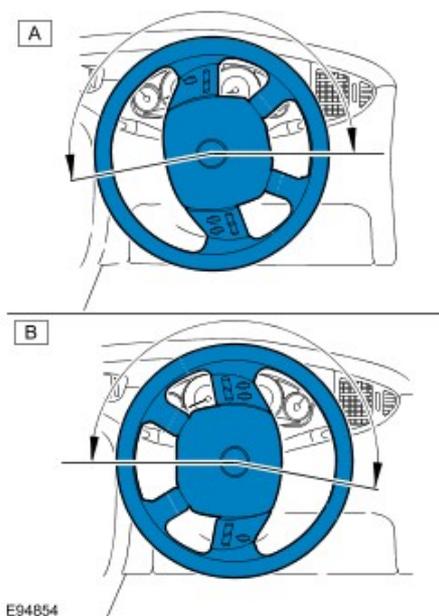
**NOTE:** The steering manoeuvre should be carried out on a hard flat surface outside of the workshop.

- 11 .  **CAUTION: Do not hold the steering wheel on full lock for more than two seconds as this may cause damage to the steering system.**

**NOTE:** With the power steering fluid temperature at  $100 \pm 5^\circ\text{C}$  (with the engine set between minimum 900rpm and maximum 1000rpm).

Turn the steering wheel to full lock and hold for two seconds. Then from full lock turn the steering wheel quickly and rapidly back a quarter ( $90^\circ$ ) turn (refer to SSM 34548 which contains a video clip showing this procedure).

- 12 . Repeat step 11 eight times.  
 13 . Turn the steering wheel to the opposite lock, and repeat steps 11 and 12.



- 14 . Remove the temperature reading equipment from the power steering fluid reservoir.  
 15 . Install the power steering fluid reservoir cap, remove fender protectors, and close hood.  
 16 . **NOTE:** If the vehicle continues to exhibit a squeak after the road test, carry out the 'Heating the steering fluid to  $100 \pm 5^\circ\text{C}$ ' (Step 10) and 'Performing the steering manoeuvre' (Steps 11, 12 & 13) to a maximum of two times. If further problems occur, contact Dealer Technical Support on (ROW) +44 1926 691738, (UK) 0870 8501666..

Road test the vehicle and check for a squeaking noise from the power steering system.

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