



# Technical Service Bulletin

No.JTB00093  
07 March 2008

<b>Subject/Concern:</b>	Power Steering Leak/Heavy/Noisy-Diagnostics
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<b>Models:</b>			
X-TYPE			

**Markets:** All

**Section:** 211-00

<b>Summary:</b>
This bulletin is for information only, to advise Authorized Repairers of a consolidation of various SSMS (30660, 30797, 33183 and 36424) concerning power steering leaks, heavy or noisy operation.
Should a customer express concern, follow the Diagnostic Procedure outlined below.

## Diagnostic Procedure

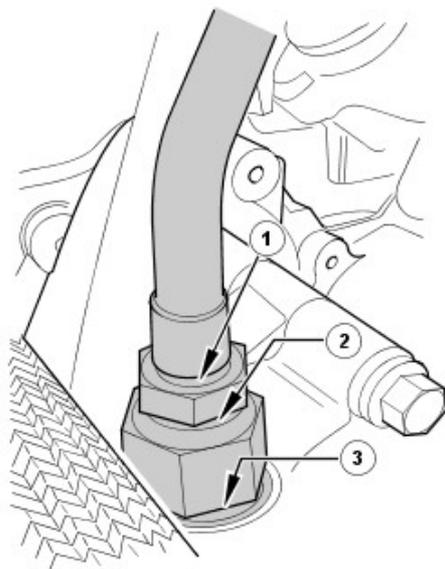
### Power Steering Leaks (including noise due to leaks)

For power steering leaks use Customer Concern Code - L68.

- 1 . Prior to deciding to change any part it should be clearly identified where the leak point is:
  - 1 clean off the oil residue and run the power steering system to confirm the leak.
- 2 . **NOTE:** It should never be necessary to change both the power steering pump and the high pressure feed hose.

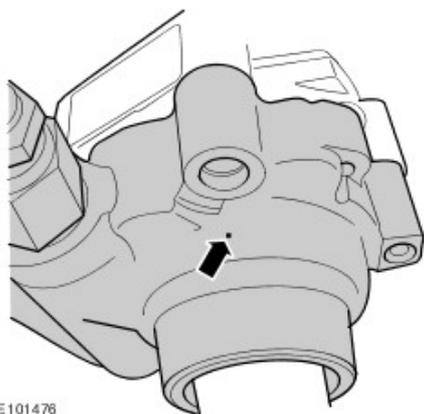
The power steering pump has several potential leak points. At the pump outlet the leak could be from three different points (see E101474).

- 1 Leak at the pipe o-ring in the quick connector - change pipe and connector (part number XR83295) and tighten to 57+/-3Nm.
- 2 Leak at the quick connector to pump adaptor - disconnect joint and renew washer (part number XR85010) and tighten to 57+/-3Nm.
- 3 Leak at pump adaptor to pump body - change pump but remove the quick connector from the replacement pump to allow installation of original pipe, which will retain its quick connector (tighten to 57+/-3Nm).



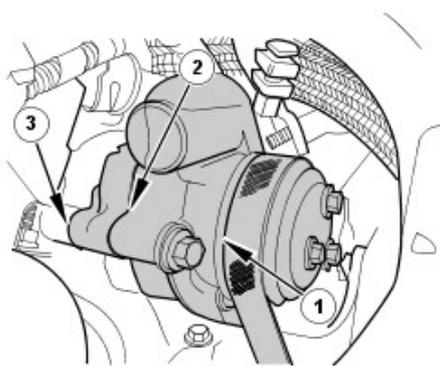
E101474

- 3 . The other common leak point is a pin-hole in the main body (see E101478).



E101478

- 4 . The other potential leak points are; the front seal behind the pulley, the gasket in the middle of the pump, and the rear seal where it drives the water pump (see E101475). Particularly from the rear seal area, instances have been identified where the leak has been from the water pump and not from the power steering pump, so care should be taken over accurate identification. It is not necessary to change the power steering pump if there is only a water pump leak.



E101475

### **Power Steering Heavy (including noisy and heavy when there is no leak)**

For power steering heavy use Customer Concern Code - N22.

- 5 . When a power steering system has become heavy, and particularly when this is either intermittent or there is evidence of contamination in the system, flushing the power steering fluid by the process in SSM 36424 will in most cases cure the issue. It should be noted that the reservoir should be changed after flushing to remove all traces of contaminants from the system.

1 Where this fails to cure the lack of power assistance, the pump should be tested to confirm it is not generating the required system pressure prior to its removal. If the correct pressure is being generated, contact Dealer Technical Support for further guidance.

### **Power Steering Noisy (grinding at the end of lock/cornering - due to front hub bearing issue)**

For power steering noises use Customer Concern Code - C50.

- 6 . This has been found on a number of occasions to be due to the front hub bearing moving and causing a contact between the brake disc and caliper.

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