

Oil leak at power supply connector of electrohydraulic power steering pump (EHPS), sometimes with reduced power assistance

Topic number	LI46.30-P-054912
Version	1
Design group	46.30 Power steering pump
Date	10-29-2012
Validity	MODEL 221 as of ident number #A 286000 up to ident number #A 495000 except vehicles with code 489 (Active Body Control) MODEL 216 as of ident number #A 023500 up to ident number #A 030800 except vehicles with code 489 (Active Body Control)
Reason for change	

Complaint:

In individual cases oil may be seen at the power supply connector of the electrohydraulic power steering pump (EHPS) A91/1 (see attachment 001) and at the wiring harness for the power supply (see attachment 002), sometimes in combination with noises when steering and/or with reduced power assistance.

The capillary effect may have cause the oil to penetrate as far as the front prefuse box F32/3 (see attachment 002) or to ground connection W2 (see attachment 002).

There is no fault code stored in the control unit of the electrohydraulic power steering pump.

Attachments	
File	Designation
001.pdf	Leakage of electrohydraulic power steering pump (A91/1)
002.pdf	Oil at wiring harness to front prefuse box (F32/3) and ground connection (W2)

Cause:

Internal leakage of electrohydraulic power steering pump (EHPS).

Remedy:

1. Replace electrohydraulic power steering pump.
2. Replace power supply wiring harness, routing and fastening the new wiring harness parallel to the existing wiring harness. Cut off the power supply connector and the ground connection of the old wiring harness at a suitable point and tie them back so that the line does not touch anywhere.
3. The front prefuse box F32/3 must also be replaced if oil is seen to have penetrated this far (see attachment 002).

Symptoms
Chassis/suspension / Steering system / Steering System Function / Support

Chassis/suspension / Steering system / Steering System Function / Stiff movement
Chassis/suspension / Steering system / Steering System Function / Support starts too late
Chassis/suspension / Steering system / Steering System Display / Pow. steer. faulty Serviced Required

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 216 460 03 80			Power steering pump	1	Electrohydraulic power steering pump EHPS	X	
A 216 540 85 08			Steering wiring harness	1	Valid for MODEL 216/221 LHD vehicle (power supply wiring harness)	X	
A 216 540 86 08			Steering wiring harness	1	Valid for MODEL 216/221 RHD vehicle (power supply wiring harness)	X	

WIS-References			
Document number	Title	Note	Allocation
AR46.30-P-0500SXH	Remove/install power steering pump	MODEL 216/221 with electrohydraulic power steering (EHPS)	Remedy
AR54.15-P-130SY	Remove/install front prefuse box	MODEL 216.3 as of 2.6.08, MODEL 216.3 with CODE (809) Model year 2009, MODEL 221.0 /1 as of 2.6.08, MODEL 221.0 /1 with CODE (809) Model year 2009	Remedy