

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	
Reason for block	

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

Validity		
Vehicle	Engine	Transmission
S (221)	*	*

Full model designation breakdown		
Vehicle	Engine	Transmission
221.003	651.961	722.908
221.022	642.930	722.902
221.026	642.862	722.903
221.028	629.911	722.903
221.054	272.946	722.999
221.056	272.965	722.906
221.057	276.950	722.906
221.070	273.922	722.904
221.071	273.961	722.904
221.073	278.932	722.909

XENTRY

221.074	157.980	722.931
221.077	156.984	722.907
221.077	156.984	722.930
221.080	642.932	722.962
221.082	276.950	722.960
221.083	642.868	722.966
221.084	273.924	722.961
221.086	273.968	722.961
221.087	272.975	722.960
221.094	278.932	722.967
221.095	272.974	722.950
221.103	651.961	722.908
221.122	642.930	722.902
221.126	642.862	722.903
221.128	629.911	722.903
221.154	272.946	722.999
221.156	272.965	722.906
221.157	276.950	722.906
221.170	273.922	722.904
221.171	273.961	722.904
221.173	278.932	722.909
221.174	157.980	722.931
221.176	275.953	722.649
221.177	156.984	722.907
221.177	156.984	722.930
221.179	275.982	722.649
221.180	642.932	722.962
221.182	276.950	722.960
221.183	642.868	722.966
221.184	273.924	722.961
221.186	273.968	722.961
221.187	272.975	722.960
221.194	278.932	722.967
221.195	272.974	722.950