

XENTRY

Fault message in instrument cluster on engine start "Power Steering Malfunction, Service Required"

Topic number	LI46.35-P-059241
Version	3
Design group	46.35 Elec tric steering
Date	12-11-2014
Validity	Model 117 VIN end number: N000197 to N083207 Model 156 VIN end number: J000000 to J007025 Model 176 VIN end number: J013984 to J259123 Model 176 VIN end number: V000000 to V012801 Model 242 VIN end number: J000066 to J000427 Model 246 VIN end number: J113948 to J251692 Model 246 VIN end number: N024511 to N085775
Reason for change	New: Note "Feedback for MPC" added
Reason for block	

Complaint:

Immediately after the engine is started, the instrument cluster displays the warning message "Power Steering Malfunction, Service Required". An acoustic warning sounds at the same time. The steering is sluggish.

Features of the problem:

1. There are no faults logged in the steering control unit (N68).
2. Fault code C063100 is logged in the ESP control unit (N30/4) together with fault code U013187 in the instrument cluster control unit (A1).

Cause:

Two possible fault causes:

1. Faulty contact of power supply to electric steering.
2. Component fault in control unit of electric steering.

Remedy:

1. Check power supply of electric steering (ground connection/ threaded connection at prefuse box).
2. If the problem is still present after the check in step 1, replace the electric steering's control unit/motor unit.

Note: If vehicles after the specified validity period suffer from this complaint, please create a PTSS case with the following information:

- Quick test with fault freeze frame data
- ES Control Unit Log

Symptoms
Chassis/suspension / Steering system / Steering System Function / Support
Chassis/suspension / Steering system / Steering System Function / Stiff movement
Communication/information / Information display / Indicator lamp / lit
Chassis/suspension / Steering system / Steering System Display / Pow. steer. faulty Serviced Required

Control unit/fault code		
Control unit	Fault code	Fault text
ESP® - Electronic stability program (N30/4) (ESP9MFA)	C063100	No CAN message was received from control unit 'N68 (Electric power steering control unit)'.
ESP® - Regenerative braking system (N30/4) (RBS242) (B (242, 246))	C063100	No CAN message was received from control unit 'N68 (Electric power steering control unit)'.
IC - Instrument cluster (A1) (IC172)	U013187	Communication with control unit "Power steering" has a malfunction. The message is missing.
IC - Instrument cluster (A1) (IC_204)	U013187	Communication with control unit "Power steering" has a malfunction. The message is missing.

Work units				
Op. no.	Operation text	Time	Damage code	Note
			46494 52	Electric rack-and-pinion steering control unit does not operate correctly.

WIS-References			
Document number	Title	Note	Allocation
AR46.20-P-0701NKB	Remove/install engine controller unit for electric power steering (ES)	MODEL 117, 156, 176, 242, 246	Remedy

Validity		
Vehicle	Engine	Transmission
117.301	*	*
117.302	*	*
117.303	*	*
117.305	*	*
117.308	*	*
117.312	*	*
117.342	*	*
117.343	*	*
117.344	*	*
117.345	*	*
117.346	*	*
117.347	*	*
117.352	*	*
156.902	*	*

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156.903	*	*
156.905	*	*
156.908	*	*
156.912	*	*
156.942	*	*
156.943	*	*
156.944	*	*
156.945	*	*
156.946	*	*
156.952	*	*
A (176)	*	*
B (242, 246)	*	*