

Red display message in instrument cluster "Power Steering Malfunction - See Owner's Manual" immediately after engine start

Topic number	LI46.35-P-055436
Version	5
Design group	46.35 Electric steering
Date	04-27-2015
Validity	Model 204.#02/#31 with CODE 211 (Direct steering) Model 207 with CODE 211 (Direct steering), except CODE M005 (4MATIC) Model 212 with CODE 211 (Direct steering), except CODE M005 (4MATIC), except 212.074/075/076/077/274/275/276/277 Model 217.382 Model 222.#04/#23/#32/#57/#62/#63/#65/#76/#82 Model 231.457/473
Reason for change	Text under Complaint, Cause and Remedy revised. Attachments optimized and added to provide a better explanation. Validity for models 217 and 222 added.
Reason for block	

Complaint:

Red display message in instrument cluster "Power Steering Malfunction - See Owner's Manual" immediately after engine start, steering assistance reduced.

An acoustic warning also sounds.

Fault code P063500 is stored in the control unit of the electric power steering (ES) together with the sub-fault listed under "Remedy".

The sub-fault is logged in the control unit log or in the fault freeze frame data in the line "Root_cause_of_DTC_failure_ID" – see example in attachment ("001").

Attachments	
File	Description
001.pdf	Display of internal fault codes in control unit log or in fault freeze frame data

Cause:

Software of electric power steering.

Remedy:

Follow the procedure below exactly!

Important note for model 204/207/212:

- The procedure below is valid only for steering gears with control unit hardware variant A212 902 74 04. Check the hardware variant in the quick test or the ES control unit log (Attachment "200"). Xentry Diagnostics automatically detects the variant.

- Optimized software for steering gears with the hardware variant A212 901 66 06 will be available as of approximately July 2015.

Model 204/207/212

1. P063500 with the following sub-faults:

-> 33 - D401 - SDH driver - RPS sensor data comparison failure

-> 164 - D609 - SDA driver - star point relay switch-off test

-> 176 - D423 - AAD driver - AAD driver timeout

Perform software update of electric power steering (ES) control unit via "Adaptations". The part number of the optimized software is: A212 902 20 11

Note: As of Xentry Diagnostics DVD 03/2015 use add-on number 4437.

2. P063500 with the following sub-faults:

-> 108 - SDA driver - Star Point Relay switch-on test

-> 209 - D508 - MDG driver - Current measurement gain error detection

- Check manufacture date of steering gear -> see digits 3 (year) and 4 (day) in attachment ("002"):

a. Manufacture date greater than or equal to "12065": Perform software update of electric power steering (ES) control unit - [see step 1](#)

b. Manufacture date less than "12065": Replace steering gear

Note: Make sure that the current software is installed in the new electric power steering.

Model 217/222:

1. P063500 with the following sub-faults:

-> 101 - D508 - MDG driver - Current measurement gain error detection

Perform software update of electric power steering (ES) control unit via "Adaptations". The part number of the optimized software is: 222 902 53 10

Note: As of Xentry Diagnostics DVD 03/2015 use add-on number 4437.

Model 231:

1. P063500 with the following sub-faults:

-> 108 - SDA driver - Star Point Relay switch-on test

-> 176 - D423 - AAD driver - AAD driver timeout

-> 209 - D508 - MDG driver - Current measurement gain error detection

Perform software update of electric power steering (ES) control unit via "Adaptations".

ONLY if above steps were not successful and the current software version is already installed, please submit a PTSS case with the following information:

- Quick test with freeze frame data
- Electric power steering (ES) control unit log

Attachments	
File	Description
002.jpg	- Location of steering gear number in the vehicle - Identification of manufacture date by reference to steering gear number (digits 3 and 4 are important) 1-Part number 2-Manufacturer 3-Production year 4-Production date 5-Serial number 6-Check digit
200.pdf	Identification of software variant in quick test or control unit log 1 -> English 2 -> German

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

Control unit/fault code		
Control unit	Fault code	Fault text
ES - Electrical power steering (N68) (EPS212) (C (204),E (212),SL (231),E (207))	P063500	The electric power steering has a malfunction. _

Work units				
Op. no.	Operation text	Time	Damage code	Note
54-0991	CONTROL UNIT:..... INSTALL SOFTWARE (AFTER QUICK TEST)		46494 90	
46-3400	REMOVE/INSTALL POWER STEERING		46494 73	

WIS-References			
Document number	Title	Note	Allocation
AR46.20-P-0600RK	Remove/install rack-and-pinion steering		Remedy

Validity		
Vehicle	Engine	Transmission
204.002	*	*
204.031	*	*
204.202	*	*
204.231	*	*
204.331	*	*
207.302	*	*
207.303	*	*
207.322	*	*
207.323	*	*
207.326	*	*
207.334	*	*
207.336	*	*
207.347	*	*
207.348	*	*
207.355	*	*
207.356	*	*
207.357	*	*
207.359	*	*
207.362	*	*
207.365	*	*
207.372	*	*
207.373	*	*
207.402	*	*
207.403	*	*
207.422	*	*
207.423	*	*
207.426	*	*
207.434	*	*
207.436	*	*
207.447	*	*
207.448	*	*
207.455	*	*
207.456	*	*
207.457	*	*
207.459	*	*
207.462	*	*
207.465	*	*
207.472	*	*
207.473	*	*
212.001	*	*

212.002	*	*
212.003	*	*
212.004	*	*
212.005	*	*
212.020	*	*
212.021	*	*
212.023	*	*
212.024	*	*
212.025	*	*
212.026	*	*
212.027	*	*
212.034	*	*
212.035	*	*
212.036	*	*
212.040	*	*
212.041	*	*
212.047	*	*
212.048	*	*
212.052	*	*
212.053	*	*
212.054	*	*
212.055	*	*
212.056	*	*
212.057	*	*
212.059	*	*
212.065	*	*
212.072	*	*
212.073	*	*
212.095	*	*
212.098	*	*
212.195	*	*
212.202	*	*
212.203	*	*
212.205	*	*
212.220	*	*
212.221	*	*
212.223	*	*
212.224	*	*
212.225	*	*
212.226	*	*
212.227	*	*
212.234	*	*
212.236	*	*

212.247	*	*
212.248	*	*
212.254	*	*
212.255	*	*
212.256	*	*
212.257	*	*
212.259	*	*
212.265	*	*
212.272	*	*
212.273	*	*
212.298	*	*
217.382	*	*
222.004	*	*
222.032	*	*
222.057	*	*
222.082	*	*
222.104	*	*
222.123	*	*
222.132	*	*
222.157	*	*
222.162	*	*
222.163	*	*
222.165	*	*
222.176	*	*
222.182	*	*
222.976	*	*
222.982	*	*
231.457	*	*
231.473	*	*

Attachments

002.jpg:

