

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

Topic number	LI46.35-P-055436
Version	9
Design group	46.35 Electrical steering
Date	01-12-2017
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/#77/#82/#79 Model 231.457/473
Reason for change	Clarification in description for attachment 002.jpg and text under remedy for model 217/222 changed to: 1. P063500 with the following sub-faults: -> 101 - D508 - MDG driver - Current measurement gain error detection -> 66 - D609 - SDA driver - Star point relay switch-off test Perform software update of electric power steering (ES) control unit via "Adaptations". The part number of the optimized software is: A 222 902 86 12
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:

XENTRY TIPS

Software of electric power steering.

Remedy:

Follow the procedure below exactly!

Important note for model 204/207/212:

The optimized software is now available for both control unit hardware variants.

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".

- Part number of optimized software for steering gears with control unit hardware variant A212 901 74 04 is: A212 902 20 11

The software is available as of Xentry Diagnostics DVD 03/2015 with add-on 4437.

- Part number of optimized software for steering gears with control unit hardware variant A212 901 66 06 is: A212 902 43 11

The software is available as of Xentry Diagnostics DVD 03/2015 with add-on 4663, or DVD 05/2015 with add-on 4664 or DVD 07/2015 with add-on 4665.

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 two digit year (3) and three digit day (4) 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
- > 66 - D609 - SDA driver - Star point relay switch-off test

Perform software update of electric power steering (ES) control unit via "Adaptations". The part number of the optimized software is: A 222 902 86 12

Model 231:

XENTRY TIPS

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".

If the current software version is already installed, please contact GSP/TPC via your local market support department.

Attachments	
File	Description
002.jpg	- Location of steering gear number in the vehicle - Identification of manufacture date by reference to steering gear number (digits associated to call-outs 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 / Function / Support
Chassis/suspension / Steering system / Function / Stiff/sluggish
Chassis/suspension / Steering system / Display message / Pow. steer. faulty Serviced Required

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

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
54-0991	CONTROL UNIT:..... INSTALL SOFTWARE (AFTER QUICK TEST)		46494 90	

XENTRY TIPS

46-3400	REMOVE/INSTALL POWER STEERING		46494 73	
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WIS-References

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

Attachments

002.jpg:

