

Red display message in instrument cluster "Steering Malfunction - See Owner's Manual", accompanied by noticeable vibrations at steering wheel

Topic number	LI46.35-P-065046
Version	1
Design group	46.35 Electric steering
Date	10-18-2016
Validity	Model 213 except 4MATIC (CODE M005)
Reason for change	

Complaint:

Red display message in instrument cluster "Steering Malfunction - See Owner's Manual"

Steering assistance is reduced

Steering wheel vibrates or may have too much play while stationary.

The following fault code combinations may be logged in the fault memory of the electric power steering (ES):

"P063507 - The electric power steering has a malfunction. There is a mechanical fault." with sub-fault "88 - Freezing blocking detection"

and/or

"P063571 - The electric power steering has a malfunction. The actuator is blocked" with sub-fault "87 - D1010 - Freezing detection"

The sub-fault is logged in the control unit log or in the fault freeze frame data from the quick test in the line "Development data (Internal_error_ID)" – see example in attachment.

Attachments	
File	Description
001.pdf	Fault code with sub-fault

Cause:

Water entry into steering gear through damaged boot

or

Possible software error in steering gear

Remedy:

1. Check steering gear for damage. Work through the following steps:

- Check boots on left and right for external damage. If any holes, cracks or other damage are found, the steering gear must be replaced complete.

XENTRY TIPS

Note: In this case the problem was not caused by the manufacturer and the repair must not be billed under warranty or goodwill!

- With the vehicle raised, turn the steering gear from side to side without running the engine and feel for pressure points or other (even slight) points of excessive resistance.

2. If no noticeable problems were found in step 1, perform a software update of the control unit of the steering gear (ES) via the menu item "Adaptations".

The part number of the optimized software is: A 213 902 21 10

The software is available as of Xentry Diagnostics DVD 09/2016 with add-on 6437.

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
54-0991	CONTROL UNIT:..... INSTALL SOFTWARE (AFTER QUICK TEST)		46494 90	scenario 1 and 2
54-0650	12V		46494 90	scenario 1 and 2
54-1011	QUICK TEST		46494 90	scenario 1 and 2
46-3611	STEERING GEAR		46486 04	scenario 2
40-1590	WHEELS		46486 04	scenario 2
40-6500	ALIGNMENT		46486 04	scenario 2
61-1087	UNDER PAN		46486 04	scenario 2