

ESP, BAS, PRE-SAFE - Fault message in instrument cluster

Topic number	LI54.18-P-067550
Version	2
Function group	54.18 Cable harnesses
Date	08-16-2018
Validity	Model 213
Reason for change	Repair method changed
Reason for block	

Complaint:

ESP®, BAS, PRE-SAFE®, HOLD function, Hill-Start Assist and ESP® trailer stabilization may be unavailable due to a malfunction and the adaptive brake lights, Adaptive Brake Assist and/or ATTENTION ASSIST may be deactivated. The brake system continues to operate with normal effectiveness. The support functions listed may have failed, but they are available again after an ignition off/on cycle.

One or more of the faults listed under 'Control unit/fault code' for the accelerator pedal (B37) is logged in the PTCU control unit (N127). Consequential faults may have been logged in the ESP control unit.

Cause:

The fault entry could have been caused by occasional transition resistance at contacts.

Remedy:

The remedy refers only to the 213 chassis and is not compatible with other published TIPS documents for other model series.

If all the test steps stored in XENTRY Diagnostics have been performed and no component faults were found, the following work must be carried out:

- Replace the contact sockets on the coupling/feed line to the accelerator pedal sensor (B37) from "MLK 1.2" (actual state) to "MCP 1.2" (target state).

If the DTC occurs again, or if this is a reoccurrence of the same complaint, a PTSS case must be created.

Notes:

Contact spray must never be used on contacts on the engine wiring harness. The use of contact cleaners can cause consequential damage!

Please do not replace any component parts/assembly parts (accelerator pedal sensor or PTCU control unit)!

Symptoms
Power generation / Engine management / Indicator lamp / Engine diagnosis / lit
Chassis/suspension / Brake system / Brakes/traction regulation system / Brake assist system BAS / Display message / Brake assist - not available
Chassis/suspension / Brake system / Brakes/traction regulation system / Starting-off aid / Malfunction
Chassis/suspension / Brake system / Brakes/traction regulation system / Brake assist system BAS / Indicator lamp / Goes on
Communication/information / Assistance and warning systems / Brake Assist / Malfunction
Chassis/suspension / Brake system / Brakes/traction regulation system / Electronic Stability Program (ESP) / Display message

XENTRY TIPS

Control unit/fault code		
Control unit	Fault code	Fault text
N30/4 - Electronic stability program (ESP®) (ESP213)	U0401EC	Implausible data were received from control unit 'combustion engine'. _
N3/10 - Motor electronics 'MED40' for combustion engine 'M274' (ME)	P2138F1	The values from the position sensors of the accelerator pedal are implausible relative to each other. _
N127 - Control unit 'Powertrain' (PTCU) (CPC_NG)	P213800	The values from the position sensors of the accelerator pedal are implausible relative to each other. _
N30/4 - Electronic stability program (ESP®) (ESP213)	U0401FA	Implausible data were received from control unit 'combustion engine'. _
N30/4 - Electronic stability program (ESP®) (ESP213)	U040181	Implausible data were received from control unit 'combustion engine'. Incorrect data were received.
N30/4 - Electronic stability program (ESP®) (ESP213)	U0416FA	Implausible data were received from control unit 'Traction system'. _
B37n1 - Haptic accelerator pedal module (HFPM) (FFAP205)	U044229	Implausible data were received from control unit 'Drivetrain'. There is an invalid signal.
N30/4 - Electronic stability program (ESP®) (ESP213)	U0401FC	Implausible data were received from control unit 'combustion engine'. _

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
W22058901992 5			Release tool MLK 1.2	1	Release tool MLK 1.2 for removing the old contact sockets from the plug to the accelerator pedal sensor B37.	
A 021 545 17 26			Contact socket MCP 1.2	6	New contact socket on plug to accelerator pedal sensor B37.	X
A 000 545 68 80			Single-wire seal	6	ELA	X
W22058904991 0			Crimping set MCP 1.2 ELA	1		

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			59202 74	Connector/line for accelerator pedal sensor

WIS-References			
Document number	Title	Note	Allocation
AR00.19-P-0100A	Wiring harness general repair methods		Remedy

XENTRY TIPS

AR00.19-P-0120A	Remove contacts from connectors, couplings		Remedy
WS00.19-P-0002B	220 589 02 99 00 Wiring harness repair kit		Remedy
WS00.19-P-0006B	220 589 04 99 00 Wiring harness repair kit, supplement for passenger cars		Remedy