

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

Topic number	LI54.18-P-062956
Version	6
Function group	54.18 Cable harnesses
Date	01-25-2019
Validity	Model 205 and 253
Reason for change	Repair method and validity revised
Reason for block	

Complaint:

ESP®, BAS, PRE-SAFE®, HOLD function, Hill-Start Assist and ESP® trailer stabilization may be unavailable, 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 will be 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 engine control unit, or in model 205 as of code 809 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 high resistance at contacts.

Remedy:

The remedy refers only to the model series listed 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 female contacts at the connector/ feed line of the accelerator pedal sensor (B37).
- These could be female contacts of the contact family MLK 1.2, which must be replaced by female contacts of the contact family MCP 1.2 LL (safety spring) (see parts table).
- The coupling housing is suitable for both families of female contacts and can be reused.

Only in model 205 before code 809 (Facelift) and model 253:

- Disconnect engine control unit "plug connector - F" once and reconnect.

Please do not replace any other components (e.g. accelerator pedal sensor).

Reoccurrence of the complaint:

1. If the fault occurs again, or if this is a reoccurrence of the same complaint, please make sure that the female contacts have been crimped properly.
2. In case of doubt, please repeat the repair. Historically, we have seen repetition of the repair to be effective.
3. If the complaint reoccurs after the second repair attempt, please create a PTSS case with informative photos of all six crimps on the female contacts.

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

XENTRY TIPS

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

Control unit/fault code		
Control unit	Fault code	Fault text
N3/9 - Motor electronics 'CR43' for combustion engine 'OM651' (CDI)	P213800	The values from the position sensors of the accelerator pedal are implausible relative to each other. _
N3/10 - Motor electronics 'MED40' for combustion engine 'M274' (ME)	P060D64	There is an internal control unit fault affecting the calculation of the accelerator pedal position. There is an implausible signal.
N127 - Control unit 'Powertrain' (PTCU) (CPC_ NG) (C (205))	P213800	The values from the position sensors of the accelerator pedal are implausible relative to each other. _
N30/4 - Electronic stability program (ESP®) (ESP167) (C (205))	U040181	Implausible data were received from control unit 'combustion engine'. Incorrect data were received.
N30/4 - Electronic stability program (ESP®) (ESP167) (C (205))	U0401EC	Implausible data were received from control unit 'combustion engine'. _
N30/4 - Electronic stability program (ESP®) (ESP167) (C (205))	U0401FC	Implausible data were received from control unit 'combustion engine'. _
N30/4 - Electronic stability program (ESP®) (ESP167) (C (205))	U0416FA	Implausible data were received from control unit 'Traction system'. _
N3/9 - Motor electronics 'CR43' for combustion engine 'OM651' (CDI)	P212100	Position sensor 1 for the accelerator pedal has a malfunction. _
N3/9 - Motor electronics 'CR43' for combustion engine 'OM651' (CDI)	P2121FA	Position sensor 1 for the accelerator pedal has a malfunction. _
N3/9 - Motor electronics 'CR43' for combustion engine 'OM651' (CDI)	P212164	Position sensor 1 for the accelerator pedal has a malfunction. There is an implausible signal.

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 021 545 13 26			Female contact MCP 1.2 LL	6	B37 - Accelerator pedal sensor	X
A 000 545 69 80			Single-wire seal	6	B37 - Accelerator pedal sensor	X
W22058901992 5			Release tool MLK 1.2	1	Special tool	
W22058904991 0			Crimping set MCP 1.2 ELA	1	Special tool	

XENTRY TIPS

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
AR54.18-P-0100-06A	Repair wiring harness using axial solder connectors		Remedy
AH00.19-P-1000-11A	Notes on protecting lines		Remedy