

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

Topic number	LI54.18-P-067550
Version	6
Function group	54.18 Cable harnesses
Date	05-23-2019
Validity	Model 213, 238 and 257
Reason for change	Information on alternative to repair wiring harness
Reason for block	

Complaint:

ESP®, BAS, PRE-SAFE®, HOLD function, Hill-Start Assist and ESP® trailer stabilization are unavailable due to a malfunction. Also the adaptive brake lights, Adaptive Brake Assist and/or ATTENTION ASSIST may have failed or be deactivated. The brake system continues to operate with normal effectiveness. The support functions listed may have failed, but 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 may have been caused by occasional transition resistance at contacts.

Additional special consideration for engine model 642:

Check whether the cable strap on the plug housing of the control unit is missing (see photo), and install if necessary.

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 connector/ feed line to the accelerator pedal sensor (B37) using the wiring harness repair kit (see parts table).

Please ensure that the twisted lines are untwisted as little as possible.

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

Reoccurrence of the problem:

If the fault occurs again, or if this is a reoccurrence of the same problem, please make sure that the line connectors between the repair wiring harness and the interior wiring harness are fitted correctly and that the solder has dispersed evenly. In case of doubt, please repeat the repair as the previous repair attempt may not have been successful. If the repair does not remedy the complaint, please create a TIPS case with informative photos of all line connectors.

Information on alternative to repair wiring harness:

The contact sockets on the accelerator pedal sensor can be replaced as an alternative to the above repair if you there is a delay in wiring harness availability.

Attachments	
File	Description
KabelbandSteckerF.JPG	Cable strap on engine control unit on engine model 642.

XENTRY TIPS

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

Control unit/fault code		
Control unit	Fault code	Fault text
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'. _
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. _
N30/4 - Electronic stability program (ESP®) (ESP213)	U0401EC	Implausible data were received from control unit 'combustion engine'. _
N30/4 - Electronic stability program (ESP®) (ESP213)	U0401FA	Implausible data were received from control unit 'combustion engine'. _
N30/4 - Electronic stability program (ESP®) (ESP213)	U0401FC	Implausible data were received from control unit 'combustion engine'. _
N127 - Control unit 'Powertrain' (PTCU) (CPC_NG)	P213800	The values from the position sensors of the accelerator pedal are implausible relative to each other. _
B37n1 - Haptic accelerator pedal module (HFPM) (FFAP205) (E (213),E (238))	U044229	Implausible data were received from control unit 'Drivetrain'. There is an invalid signal.

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 213 540 10 91			Accelerator pedal sensor wiring harness repair	1		X
A 000 982 95 10			Cable connector	6		X
W22058901992 5			Release tool MLK 1.2	1	Alternative: 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	Alternative: New contact socket on plug for accelerator pedal sensor B37.	X

XENTRY TIPS

A 000 545 68 80		Single-wire seal	6	Alternative	X
W22058904991 0		Crimping set MCP 1.2 ELA	1	Alternative	

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
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

Attachments

KabelbandSteckerF.JPG:

