

ESP, BAS, PRE-SAFE - Fault message in instrument cluster - Model series 204/212/207 as of production year 2013 and selected engine variants

Topic number	LI54.18-P-059464
Version	1
Design group	54.18 Cable harnesses
Date	07-22-2014
Validity	Vehicles as of production year 2013: Model 204 with M276, M271, OM642 Model X204 with M276, OM642 Model 207 with M276, M278, M271 Model 212 with M272, M271, M278, M276
Reason for change	
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.

Fault codes concerning the plausibility of the accelerator pedal sensors (B37) are logged in the engine control unit. Consequential faults may have been logged in the ESP.

Cause:

In vehicles of model series 204, 212, 207 as of production year 2013, transition resistances may occur intermittently at the contacts. This can result in warnings due to the sensitivity of the system.

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 (e.g. accelerator pedal fault from production years prior to 2013), the following work must be carried out:

- Check contacts of accelerator pedal plug connector (B37) for widening/damage! Make sure that testing is performed using the correct contact spring (here MLK1.2), otherwise the contact could be damaged! A new pigtail must be used for testing (see part number below). If damage/widening is found, the female contacts must be replaced (on the accelerator pedal only).

- Disconnect engine control unit "plug connector - F" (vehicle side) once and reconnect.

Notes:

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

Symptoms
Power generation / Engine management / 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 / Nonfunctional
Chassis/suspension / Brake system / Brakes/traction regulation system / Brake assist system BAS / Indicator lamp / Goes on
Chassis/suspension / Brake system / Brakes/traction regulation system / Electronic Stability Program ESP / Indicator lamp / Goes on
Chassis/suspension / Brake system / Brakes/traction regulation system / Electronic Stability Program ESP / Display message / Display text, yellow/white / Unavailable - ESP - See Operator's Man.
Communication/information / Warning and control system / COLLISION PREVENTION ASSIST / Warning system nonfunctional

Control unit/fault code		
Control unit	Fault code	Fault text
CDI - Motor electronics 'CDI6' for combustion engine 'OM642' (N3/9) (CR6) (GLK (204),C (204))	101F00	Component 'B37 (Accelerator pedal sensor)' has a plausibility error.
ESP® - Electronic stability program (N30/4) (ESP9_212) (E (212),E (207))	C03A400	The CAN message from control unit 'Engine' is faulty.
ME - Motor electronics 'ME97' for combustion engine 'M272' (N3/10)	0089	The values from the position sensors of the accelerator pedal are implausible relative to each other.
ME - Motor electronics 'MED177' for combustion engine 'M276 Abgasturbolader' (N3/10) (MED177V6LA) (E (212),E (207))	P213800	The values from the position sensors of the accelerator pedal are implausible relative to each other. _
ME - Motor electronics 'MED177' for combustion engine 'M276' (N3/10)	P213800	The values from the position sensors of the accelerator pedal are implausible relative to each other. _
ME - Motor electronics 'MED40' for combustion engine 'M274' (N3/10)	P213800	The values from the position sensors of the accelerator pedal are implausible relative to each other. _
ME - Motor electronics 'MED40CNG' for combustion engine 'M274' (N3/10) (E (212))	P213800	The values from the position sensors of the accelerator pedal are implausible relative to each other. _
ME - Motor electronics 'MED97' for combustion engine 'M272' (N3/10)	0089	The values from the position sensors of the accelerator pedal are implausible relative to each other.

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ME - Motor electronics 'SIM271DE20' for combustion engine 'M271EVO' (N3/10)	P213862	The values from the position sensors of the accelerator pedal are implausible relative to each other. The signal comparison is faulty.
ME - Motor electronics 'SIM271KE20' for combustion engine 'M271' (N3/10) (GLK (204),C (204))	2138	The values from the position sensors of the accelerator pedal are implausible relative to each other.
ME - Motor electronics 'SIM271KECNG' for combustion engine 'M271CNG' (N3/10) (E (212))	2138	The values from the position sensors of the accelerator pedal are implausible relative to each other.
CDI - Motor electronics 'CDI60LS' for combustion engine 'OM642' (N3/9) (CR60LS)	101F00	Component 'B37 (Accelerator pedal sensor)' has a plausibility error.
CDI - Motor electronics 'CDI61' for combustion engine 'OM642' (N3/9) (CR61) (E (212),E (207))	P213800	The values from the position sensors of the accelerator pedal are implausible relative to each other. _
CDI - Motor electronics 'CDI6BIN5EU6' for combustion engine 'OM642' (N3/9) (CR6BIN5EU6) (E (212))	101F00	Component 'B37 (Accelerator pedal sensor)' has a plausibility error.
CDI - Motor electronics 'CDI6EU5' for combustion engine 'OM642' (N3/9) (CR6EU5)	101F00	Component 'B37 (Accelerator pedal sensor)' has a plausibility error.
CDI - Motor electronics 'CDID2' for combustion engine 'OM651' (N3/9) (CRD2)	P213864	The values from the position sensors of the accelerator pedal are implausible relative to each other. There is an implausible signal.
CDI - Motor electronics 'CDID3' for combustion engine 'OM651' (N3/9) (CRD3)	P213800	The values from the position sensors of the accelerator pedal are implausible relative to each other. _
CDI - Motor electronics 'CR42' for combustion engine 'OM651' (N3/9)	P213800	The values from the position sensors of the accelerator pedal are implausible relative to each other. _
CDI - Motor electronics 'CR43' for combustion engine 'OM651' (N3/9) (E (212),E (207))	P213800	The values from the position sensors of the accelerator pedal are implausible relative to each other. _

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 002 982 58 26			Female contact MLK1.2S ----- 0.5mm ²		"B37 - Accelerator pedal"	X	
A 000 982 30 26			Female contact MLK1.2S ----- 0.75mm ²		"B37 - Accelerator pedal"	X	
A 001 545 50 80			Single-wire seal		"B37 - Accelerator pedal"	X	

XENTRY

A 001 540 87 05		Pigtail MLK1.2S	1	Pigtail MLK1.2S for testing the contacts	X	
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Work units				
Op. no.	Operation text	Time	Damage code	Note
			598BF 74	Connector/line F for gasoline engine control unit
			598DF 74	Connector/line F for diesel engine control unit

Validity		
Vehicle	Engine	Transmission
C (204)	276	*
C (204)	271	*
C (204)	642	*
E (207)	276	*
E (207)	278	*
E (207)	271	*
E (212)	272	*
E (212)	271	*
E (212)	278	*
E (212)	276	*
GLK (204)	642	*
GLK (204)	276	*

Full model designation breakdown		
Vehicle	Engine	Transmission
204.022	642.960	711.670
204.022	642.960	722.902
204.023	642.834	711.670
204.023	642.834	722.903
204.025	642.830	711.670
204.025	642.830	722.902
204.041	271.950	711.656
204.041	271.950	716.607
204.041	271.950	716.635
204.041	271.950	722.695
204.041	271.950	722.997
204.044	271.910	711.655
204.044	271.910	711.656

XENTRY

204.044	271.910	716.635
204.044	271.910	722.695
204.045	271.910	711.655
204.045	271.910	716.607
204.045	271.910	722.695
204.046	271.952	711.656
204.046	271.952	716.607
204.046	271.952	716.635
204.046	271.952	722.695
204.046	271.952	722.997
204.047	271.860	722.618
204.047	271.860	722.997
204.048	271.860	711.655
204.048	271.860	716.607
204.048	271.860	716.612
204.048	271.860	722.696
204.048	271.860	722.997
204.049	271.820	711.655
204.049	271.820	716.607
204.049	271.820	716.612
204.049	271.820	722.696
204.049	271.820	722.997
204.055	276.957	722.906
204.057	276.957	722.906
204.080	276.957	722.960
204.088	276.957	722.960
204.089	642.961	722.962
204.092	642.832	722.962
204.222	642.960	711.670
204.222	642.960	722.902
204.223	642.834	711.670
204.223	642.834	722.903
204.225	642.830	711.670
204.225	642.830	722.902
204.241	271.950	711.656
204.241	271.950	716.635
204.241	271.950	722.695
204.241	271.950	722.997
204.245	271.910	711.655
204.245	271.910	716.607
204.245	271.910	722.695
204.246	271.952	711.656
204.246	271.952	716.607

XENTRY

204.246	271.952	716.635
204.246	271.952	722.695
204.246	271.952	722.997
204.247	271.860	722.618
204.247	271.860	722.997
204.248	271.860	711.653
204.248	271.860	711.655
204.248	271.860	716.607
204.248	271.860	716.612
204.248	271.860	722.696
204.248	271.860	722.997
204.249	271.820	711.655
204.249	271.820	716.612
204.249	271.820	722.696
204.249	271.820	722.997
204.257	276.957	722.906
204.289	642.961	722.962
204.292	642.832	722.962
204.347	271.860	722.618
204.347	271.860	722.997
204.348	271.860	711.655
204.348	271.860	722.997
204.349	271.820	711.655
204.349	271.820	716.607
204.349	271.820	722.997
204.357	276.957	722.906
204.388	276.957	722.960
204.957	276.957	722.906
204.983	642.961	722.962
204.988	276.957	722.960
204.990	276.957	722.960
204.992	642.832	722.962
204.993	642.835	722.966
207.347	271.860	722.618
207.347	271.860	722.997
207.348	271.860	711.655
207.348	271.860	716.607
207.348	271.860	716.612
207.348	271.860	722.696
207.348	271.860	722.997
207.355	276.957	722.906
207.359	276.957	722.906
207.361	276.850	722.904

XENTRY

207.362	276.820	722.904
207.365	276.820	722.904
207.367	276.820	722.961
207.373	278.922	722.909
207.388	276.957	722.960
207.447	271.860	722.618
207.447	271.860	722.997
207.448	271.860	711.655
207.448	271.860	722.696
207.448	271.860	722.997
207.455	276.957	722.906
207.459	276.957	722.906
207.461	276.850	722.904
207.462	276.820	722.904
207.465	276.820	722.904
207.473	278.922	722.909
212.041	271.958	722.695
212.047	271.860	722.618
212.047	271.860	722.997
212.048	271.860	711.655
212.048	271.860	716.612
212.048	271.860	722.696
212.048	271.860	722.997
212.052	272.923	716.636
212.052	272.923	722.998
212.053	272.980	722.906
212.054	272.952	711.654
212.054	272.952	722.999
212.055	276.952	722.906
212.056	272.980	722.906
212.057	272.983	722.906
212.059	276.952	722.906
212.061	276.850	722.904
212.065	276.820	722.904
212.067	276.820	722.961
212.073	278.922	722.909
212.073	278.922	725.011
212.073	278.922	725.032
212.073	278.922	725.033
212.080	276.952	722.960
212.087	272.977	722.960
212.088	276.952	722.960
212.091	278.922	722.967

XENTRY

212.091	278.922	725.021
212.095	276.952	724.206
212.099	276.850	722.960
212.099	276.850	722.961
212.147	271.860	722.618
212.147	271.860	722.997
212.148	271.860	711.655
212.148	271.860	722.696
212.148	271.860	722.997
212.154	272.952	711.654
212.154	272.952	722.999
212.162	276.820	722.904
212.165	276.820	722.904
212.167	276.820	722.961
212.168	276.820	722.961
212.195	276.952	724.206
212.247	271.860	722.618
212.247	271.860	722.997
212.248	271.860	711.655
212.248	271.860	716.612
212.248	271.860	722.696
212.248	271.860	722.997
212.254	272.952	711.654
212.254	272.952	722.999
212.255	276.952	722.906
212.256	272.980	722.906
212.257	272.983	722.906
212.259	276.952	722.906
212.261	276.850	722.904
212.265	276.820	722.904
212.267	276.820	722.961
212.273	278.922	722.909
212.273	278.922	725.011
212.273	278.922	725.032
212.273	278.922	725.033
212.280	276.952	722.960
212.287	272.977	722.960
212.288	276.952	722.960
212.291	278.922	722.967
212.291	278.922	725.021
212.299	276.850	722.960
212.299	276.850	722.961

XENTRY
