

XENTRY

Engine diagnosis warning lamp (CEL), stored fault concerning throttle valve actuator

Topic number	LI54.18-P-058597
Version	2
Design group	54.18 Cable harnesses
Date	08-12-2014
Validity	All models with engine 276 All models with engine 278
Reason for change	
Reason for block	

Complaint:

The engine diagnosis warning lamp - check engine lamp (CEL) is active.

One or more of the faults relating to the throttle valve actuator (M16/6) listed under 'Control unit / Fault' is/are stored in the engine control unit (N3/10).

Cause:

Contamination of the contact surfaces could cause the fault to occur.

Remedy:

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:

M276:

- Visually inspect contacts at throttle valve actuator (M16/6)
- Visually inspect contacts at engine control unit (N3/10) connector M+F (engine and body side connector)

M278:

- Visually inspect contacts X26 (intermediate connector M16/6 - N3/10) (see WIS reference for location)
- Visually inspect contacts at engine control unit (N3/10) connector M+F (engine and body side connector)

If no noticeable problems are found, reconnect the connector and erase the fault.

Do not replace any components!**Note:**

Some minuscular contamination at the connector pins might be present however not apparently visible. Simply re-connecting plugs at ME would clean pins and restore suitable connection at contact surfaces.

Note:

If other fault codes in various vehicles' systems are present in addition to any of the P213xxx fault codes, the issue might originate in other areas. Consider prudently checking vehicle's wiring for chafing and other damages.

If the fault reoccurs after above checks are performed or visual inspections reveal concerns, please address the problem through PTSS by opening the case and providing all possible information including any related illustrations.

Note:

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

Control unit/fault code		
Control unit	Fault code	Fault text
ME - Motor electronics 'MED177' for combustion engine 'M276' (N3/10), MED 17.7-Motor electronics for direct injection 17.7 (MED177) (GLK (204),S (222),C (204), SLK (172),E (212),SL (231), CLS (218),M (166),E (207),GL (166))	P213500	The values from the position sensors of the throttle valve are implausible relative to each other. _
ME - Motor electronics 'MED177' for combustion engine 'M276 Abgasturbolader' (N3/10) , MED 17.7-Motor electronics for direct injection 17.7 (MED177V6LA) (R (251))	P213629	The values from position sensors 'A/C' of the throttle valve are implausible relative to each other. There is an invalid signal.
ME - Motor electronics 'MED177' for combustion engine 'M276 Abgasturbolader' (N3/10) , MED 17.7-Motor electronics for direct injection 17.7 (MED177V6LA) (S (222), SLK (172),E (212),SL (231), CLS (218),M (166),E (207),GL (166))	P213700	The values from position sensors "B/C" of the throttle valve are implausible relative to each other. _
ME - Motor electronics 'MED177' for combustion engine 'M276 Abgasturbolader' (N3/10) , MED 17.7-Motor electronics for direct injection 17.7 (MED177V6LA) (S (222), SLK (172),E (212),SL (231), CLS (218),M (166),E (207),GL (166))	P213629	The values from position sensors "A/C" of the throttle valve are implausible relative to each other. There is an invalid signal.
ME - Motor electronics 'MED177' for combustion engine 'M276 Abgasturbolader' (N3/10) , MED 17.7-Motor electronics for direct injection 17.7 (MED177V6LA) (R (251))	P213500	The values from the position sensors of the throttle valve are implausible in relation to each other.

ME - Motor electronics 'MED177' for combustion engine 'M276 Abgasturbolader' (N3/10), MED 17.7-Motor electronics for direct injection 17.7 (MED177V6LA) (S (222), SLK (172),E (212),SL (231), CLS (218),M (166),E (207),GL (166))	P213500	The values from the position sensors of the throttle valve are implausible relative to each other. _
ME - Motor electronics 'MED177' for combustion engine 'M276 Abgasturbolader' (N3/10), MED 17.7-Motor electronics for direct injection 17.7 (MED177V6LA) (R (251))	P213700	The values from position sensors 'B/C' of the throttle valve are implausible relative to each other.
ME - Motor electronics 'MED177' for combustion engine 'M276' (N3/10), MED 17.7-Motor electronics for direct injection 17.7 (MED177) (CL (216),R (251),S (221))	P213500	The values from the position sensors of the throttle valve are implausible in relation to each other.
ME - Motor electronics 'MED177' for combustion engine 'M276' (N3/10), MED 17.7-Motor electronics for direct injection 17.7 (MED177) (CL (216),R (251),S (221))	P213700	The values from position sensors 'B/C' of the throttle valve are implausible relative to each other. ((ECU1_DEF_DIOVAR@M278LA_VC7_0_Serie)or(ECU1_DEF_DIOVAR@M278LA_VC8)or(ECU1_DEF_DIOVAR@M278LA_VC9)or(ECU1_DEF_DIOVAR@M278LA_VC10)or(ECU1_DEF_DIOVAR@M278LA_VC11)or(ECU1_DEF_DIOVAR@M278LA_VC12)or(ECU1_DEF)
ME - Motor electronics 'MED177' for combustion engine 'M276' (N3/10), MED 17.7-Motor electronics for direct injection 17.7 (MED177) (GLK (204),S (222),C (204), SLK (172),E (212),SL (231), CLS (218),M (166),E (207),GL (166))	P213629	The values from position sensors "A/C" of the throttle valve are implausible relative to each other. There is an invalid signal.
ME - Motor electronics 'MED177' for combustion engine 'M276' (N3/10), MED 17.7-Motor electronics for direct injection 17.7 (MED177) (CL (216),R (251),S (221))	P213700	The values from position sensors 'B/C' of the throttle valve are implausible relative to each other.
ME - Motor electronics 'MED177' for combustion engine 'M276' (N3/10), MED 17.7-Motor electronics for direct injection 17.7 (MED177) (CL (216),R (251),S (221))	P213629	The values from position sensors 'A/C' of the throttle valve are implausible relative to each other. There is an invalid signal.
ME - Motor electronics 'MED177' for combustion engine 'M276' (N3/10), MED 17.7-Motor electronics for direct	P213629	The values from position sensors 'A/C' of the throttle valve are implausible relative to each other. There is an invalid signal. ((ECU1_DEF_DIOVAR@M278LA_VC7_0_Serie)or(ECU1_DEF_DIOVAR@M278LA_VC8)or(ECU1_DEF_DIOVAR@M278LA_VC9)or(ECU1_DEF_DIOVAR@M278LA_VC10)or(ECU1_DEF_DIOVAR@M278LA_VC11)or(ECU1_DEF_DIOVAR@M278LA_VC12)or(ECU1_DEF)

injection 17.7 (MED177) (CL (216),R (251),S (221))		VC9)or(ECU1_DEF_DIOVAR@M278LA_VC10)or(ECU1_DEF_DIOVAR@M278LA_VC11)or(ECU1_DEF_DIOVAR@M278LA_VC12)or(ECU1_DEF)
ME - Motor electronics 'MED177' for combustion engine 'M276' (N3/10), MED 17.7-Motor electronics for direct injection 17.7 (MED177) (GLK (204),S (222),C (204), SLK (172),E (212),SL (231), CLS (218),M (166),E (207),GL (166))	P213700	The values from position sensors "B/C" of the throttle valve are implausible relative to each other. _
ME - Motor electronics 'MED177' for combustion engine 'M276' (N3/10), MED 17.7-Motor electronics for direct injection 17.7 (MED177) (CL (216),R (251),S (221))	P213500	The values from the position sensors of the throttle valve are implausible in relation to each other. ((ECU1_DEF_DIOVAR@M278LA_VC7_0_Serie)or(ECU1_DEF_DIOVAR@M278LA_VC8) or(ECU1_DEF_DIOVAR@M278LA_VC9)or(ECU1_DEF_DIOVAR@M278LA_VC10)or(ECU1_DEF_DIOVAR@M278LA_VC11) or(ECU1_DEF_DIOVAR@M278LA_VC12)or(ECU1_DEF)

WIS-References			
Document number	Title	Note	Allocation
gf00.19-p-1001-01naa	Locations of line and plug connectors - Left engine compartment	M278 - X26 connector	Remedy

Validity			
Vehicle	Engine	Transmission	
166.055	276	*	
166.056	276	*	
166.057	276	*	
166.058	276	*	
166.062	276	*	
166.856	276	*	
207.355	276.957	*	
207.359	276.957	*	
207.362	276.820	*	
207.365	276.820	*	
207.388	276.957	*	
207.455	276.957	*	
207.459	276.957	*	
207.462	276.820	*	
207.465	276.820	*	
212.055	276.952	*	
212.059	276.952	*	
212.065	276.820	*	

XENTRY

212.067	276.820	*
212.080	276.952	*
212.088	276.952	*
212.095	276.952	*
212.162	276.820	*
212.165	276.820	*
212.167	276.820	*
212.168	276.820	*
212.195	276.952	*
212.255	276.952	*
212.259	276.952	*
212.265	276.820	*
212.267	276.820	*
212.280	276.952	*
212.288	276.952	*
218.355	276.952	*
218.359	276.952	*
218.959	276.952	*
222.057	276	*
222.082	278.929	*
222.085	278.929	*
222.157	276	*
222.162	276	*
222.165	276	*
222.182	278.929	*
222.185	278.929	*
C (204)	276	*
CL (216)	278	*
CLS (218)	278	*
E (207)	278	*
E (212)	278	*
GL (166)	278	*
GLK (204)	276	*
M (166)	278	*
R (251)	276	*
S (221)	278	*
S (221)	276	*
SL (231)	278	*
SL (231)	276	*
SLK (172)	276	*