

Check Engine Light (CEL) on, DTC fault code(s) concerning throttle valve actuator

Topic number	LI54.18-P-058597
Version	5
Design group	54.18 Cable harnesses
Date	04-07-2015
Validity	All models with engine 276 All models with engine 278
Reason for change	Remedy revised
Reason for block	

Complaint:

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

One or more of the faults (P213500, P213629 or P213700) 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 (even small not really visible) of the contact surfaces between male and female pins at plug connectors could cause the fault to occur.

Attachments	
File	Description
CA010279 1.JPG	example of wiring harness potential issues

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

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.

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

If the fault occurs again, or if this is a reoccurrence of the same problem, the relevant female contacts of the engine control unit connector must be replaced.

The repair may only be performed by specialist personnel and the instructions in the attachment must be followed!

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

Work units				
Op. no.	Operation text	Time	Damage code	Note
			598BM 74	
54-0650	BATTERY CHARGER MAINTAIN 12V			
54-1011	SHORT TEST			
02-0001	UNPLUG/PLUG AND INSPECT CONTACTS			

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
*	275	*
*	278	*
166.055	276	*
166.056	276	*
166.057	276	*
166.058	276	*
166.062	276	*
166.856	276	*
166.872	278.928	*
166.873	278.928	*
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	*
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	*
GLK (204)	276	*
M/GLE (166)	278	*
R (251)	276	*
S (221)	278	*
S (221)	276	*
SL (231)	278	*
SL (231)	276	*
SLK/SLC 172	276	*

