Engine diagnosis warning lamp is active, DTC P052E71

Topic number	LI07.70-P-058650
Version	5
Design group	07.70 Direct injection gasoline injection and ignition system
Date	03-30-2015
Validity	M270 in model series C117 (country code 705 USA)
Reason for change	
Reason for block	

Complaint:

Engine diagnosis warning lamp active - check engine light (CEL) on.

The fault code P052E71 is logged in the fault memory of the engine control unit.

Cause:

Possible cause:

The component or the electrical actuation at the partial load crankcase ventilation valve (Y58/2) may be faulty or might not activate initially.

Remedy:

1) Check function and actuation of partial load crankcase ventilation valve (Y58/2) using Xentry Diagnostics (with AddOn 3507). Perform tests step for fault code.

If the actuation is successful and no component faults are found, perform the following work:

2) Erase fault memory and do not perform any further work. Release vehicle. (The partial load crankcase ventilation valve could have been initially stuck on a new vehicle - with relatively low mileage - when the line is dry and spring built inside the valve could not overcome friction forces - hence the fault code could have been set. During the guided test actuations, the valve is forced to open and close and then performing as design.)

3) If the test reveals a faulty partial load crankcase ventilation valve (Y58/2), replace the valve / intake pipe assembly (part number A 270 090 08 29).

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 'MED40' for combustion engine 'M274' (N3/10)	P052E71	The valve for crankcase ventilation has a malfunction. The actuator is blocked.

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Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 270 090 08 29			Intake line assembly	1	Intake line assembly with Y58/2	X

Work units				
Op. no.	Operation text	Time	Damage code	Note
			09312 38	Actuation successful, part not replaced
54-0650	BATTERY CHARGER / MAINTAIN VOLTAGE			
54-1011	SHORT TEST			
07-0641	GUIDED TEST			
			09312 04	Actuation unsuccessful, replace crankcase vent valve
54-0650	MAINTAIN VOLTAGE/ BATTERY CHARGER			
54-1011	SHORT TEST			
07-0641	GUIDED TEST			
09-8401	ENGINE INTAKE AIR DUCT DOWNSTREAM OF AIRFILTER REPLACE			

Validity		
Vehicle	Engine	Transmission
117.342	270.910	*
117.343	270.910	*
117.344	270.920	*
117.345	270.920	*
117.346	270.920	*

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