

During long drives in humid states, the Check Engine Light may illuminate with DTCs for misfire on cylinder(s) 1,2,3 or 4 (P030100,P030200,P030300 or P030400).

Topic number	LI07.70-P-059951
Version	6
Function group	07.70 Gasoline injection and ignition system direct injection
Date	09-18-2019
Validity	Model 204 and model 172 with M271 EVO engines (271.8)
Reason for change	Cause and Remedy clarified.
Reason for block	

Complaint:

The Check Engine Light (CEL) is on in the instrument cluster and a misfire or reduced power may be felt by the customer.

Cause:

Possible accumulation of condensation in the intercooler during long steady drives, in high humidity states during seasons with humidity >70%.

Refer to attachment for determining a humid state during warm/hot seasons.

NOTE: Localized high humidity conditions may occur outside of the areas on the map.

Attachments	
File	Description
US map of humidity by state.pdf	US map of humidity by state.

Remedy:

Perform guided test for fault code P030100, P030200,P030300 or P030400 with XENTRY diagnosis. The guided test will direct workshop to check intercooler if the fault occurred with high engine load (>80%) and extended drive time (>3600 seconds).

NOTE: If the complaint occurred after a short stop-over (i.e. stopping at a rest stop) the guided test may not advise a check of the intercooler. In this case confirm with customer that an extended drive was performed before the stop-over.

Workshop must only replace intercooler with updated part if directed by Xentry and if the complaint is in a humid state or area.

XENTRY TIPS

"If no obvious causes of misfire are found, check the fault setting condition, erase fault code and release vehicle without replacing any components.

Submit a labor only claim as outlined in the DTC Verified – No Repair section of the Warranty Manual."

Symptoms
Power generation / Engine management / Indicator lamp / Engine diagnosis / lit

Control unit/fault code		
Control unit	Fault code	Fault text
N3/10 - Motor electronics 'SIM271DE20' for combustion engine 'M271EVO' (ME)	P030400	Combustion misfiring of cylinder 4 has been detected. _
N3/10 - Motor electronics 'SIM271DE20' for combustion engine 'M271EVO' (ME)	P030200	Combustion misfiring of cylinder 2 has been detected. _
N3/10 - Motor electronics 'SIM271DE20' for combustion engine 'M271EVO' (ME)	P030300	Combustion misfiring of cylinder 3 has been detected. _
N3/10 - Motor electronics 'SIM271DE20' for combustion engine 'M271EVO' (ME)	P030100	Combustion misfiring of cylinder 1 has been detected. _

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A0995003501			Charge air cooler (Intercooler)	1	Parts in critical supply. Part to be used only if indicated by Xentry!	

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
09-6820	REPLACE CHARGE AIR COOLER (INTERCOOLER).	.9	50070 47	