

Check Engine Light (CEL) on, DTC code for misfire (cylinder 1 or 4 - P030100, P030400) in M271 EVO ME engine control module

Topic number	LI07.70-P-059951
Version	1
Design group	07.70 Direct injection gasoline injection and ignition system
Date	10-24-2014
Validity	Model 204 and model 172 with M271 EVO engines (271.8)
Reason for change	
Reason for block	

Complaint:

The Check Engine Light (CEL) is on in the instrument cluster. Customer may complain of reduced power under full throttle acceleration at highway speeds. DTC fault codes P030100 or P030400 in the ME engine control module. The situation might be very intermittent.

Cause:

Issue is being investigated.

Remedy:

Perform the usual misfire checks related to fuel, plugs, coils or injectors. Check compression and leak-down. Swap components from cylinder 1 to 2 and from 3 to 4 to ensure that misfire condition does not move. 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.

It is encouraged to report cases through PTSS for investigation and recording purposes. In repeat occurrences it is mandatory to submit a PTSS case.

When submitting a PTSS case for this condition please attach always required QT and CUL as well as compression and leak down test results and any other related important information. Include this LI number in the case text.

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 'SIM271DE20' for combustion engine 'M271EVO' (N3/10)	P030400	Combustion misfiring of cylinder 4 has been detected.
ME - Motor electronics 'SIM271DE20' for combustion engine 'M271EVO' (N3/10)	P030200	Combustion misfiring of cylinder 2 has been detected.

ME - Motor electronics 'SIM271DE20' for combustion engine 'M271EVO' (N3/10)	P030300	Combustion misfiring of cylinder 3 has been detected.
ME - Motor electronics 'SIM271DE20' for combustion engine 'M271EVO' (N3/10)	P030100	Combustion misfiring of cylinder 1 has been detected.

Validity		
Vehicle	Engine	Transmission
*	271.860	*
*	271.861	*
*	271.820	*

Full model designation breakdown		
Vehicle	Engine	Transmission
172.447	271.861	711.653
172.447	271.861	711.654
172.447	271.861	722.997
172.448	271.861	711.655
172.448	271.861	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
204.247	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
204.347	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
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
207.447	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
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
212.147	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
212.247	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