

Misfiring on several cylinders simultaneously

Topic number	LI15.18-P-057000
Version	1
Design group	15.18 Wiring harnesses
Date	08-21-2013
Validity	Model 215, 216, 220, 221, 230 with engine 275
Reason for change	

Complaint:

The engine diagnosis warning lamp (CEL) in the instrument cluster is active.

The engine may run in limp-home mode. The gasoline engine control unit may contain fault codes about misfiring on several cylinders.

Cause:

Possible transition resistances in connector sleeves Z7/43z1 and Z7/43z2 in engine wiring harness.

Remedy:

- Work through all the specified test steps for the fault codes in diagnosis.
- If all test results are OK, repair connector sleeves Z7/43z1 and Z7/43z2 using solder connectors.

Symptoms
Power generation / Engine management / Engine running / Runs rough/shakes
Power generation / Engine management / Engine management indicator lamp / Engine diagnosis / lit
Power generation / Engine management / Engine performance / Goes into limp-home mode

Control unit/fault code		
Control unit	Fault code	Fault text
ME 2.7.2-Motor electronics 2.7.2 (ME272DC) (CL (216),SL (230),S (221))	205B	Misfiring of cylinder 8, damages TWC(P0308)
ME 2.7.2-Motor electronics 2.7.2 (ME272DC) (CL (216),SL (230),S (221))	2057	Misfiring of cylinder 7, damages TWC(P0307)
ME 2.7.2-Motor electronics 2.7.2 (ME272DC) (CL (216),SL (230),S (221))	2052	Misfiring of cylinder 5, damages TWC(P0305)
ME 2.7.2-Motor electronics 2.7.2 (ME272DC) (CL (216),SL (230),S (221))	2054	Misfiring of cylinder 6, damages TWC(P0306)
ME 2.7.2-Motor electronics 2.7.2 (ME272DC) (CL (216),SL (230),S (221))	2059	Misfiring of cylinder 9, damages TWC(P0309)

ME 2.7.2-Motor electronics 2.7.2 (ME272DC) (CL (216),SL (230),S (221))	2058	Misfiring of cylinder 11, damages TWC(P0311)
ME 2.7.2-Motor electronics 2.7.2 (ME272DC) (CL (216),SL (230),S (221))	2055	Misfiring of cylinder 2, damages TWC(P0302)
ME 2.7.2-Motor electronics 2.7.2 (ME272DC) (CL (216),SL (230),S (221))	205A	Misfiring of cylinder 12, damages TWC(P0312)
ME 2.7.2-Motor electronics 2.7.2 (ME272DC) (CL (216),SL (230),S (221))	2050	Misfiring,Damages TWC(P0300)
ME 2.7.2-Motor electronics 2.7.2 (ME272DC) (CL (216),SL (230),S (221))	205C	Misfiring of cylinder 10, damages TWC(P0310)
ME 2.7.2-Motor electronics 2.7.2 (ME272DC) (CL (216),SL (230),S (221))	2051	Misfiring of cylinder 1, damages TWC(P0301)
ME 2.7.2-Motor electronics 2.7.2 (ME272DC) (CL (216),SL (230),S (221))	2053	Misfiring of cylinder 3, damages TWC(P0303)
ME 2.7.2-Motor electronics 2.7.2 (ME272DC) (CL (216),SL (230),S (221))	2056	Misfiring of cylinder 4, damages TWC(P0304)

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 002 546 00 41			Solder connector sleeve		2 - 4 mm ² (for use in engine compartment)	X	
A 001 546 99 41			Solder connector sleeve		0.7 - 2.4 mm ² (for use in engine compartment)	X	

WIS-References			
Document number	Title	Note	Allocation
pe07.61-p-2101-97sae	Wiring diagram for ME-SFI [ME] gasoline injection and ignition system control unit	Model 221	Remedy
pe07.61-p-2101-97km	Wiring diagram for ME-SFI [ME] gasoline injection and ignition system control unit	Model 230	Remedy
pe07.61-p-2101-99sq	Wiring diagram for ME-SFI [ME] gasoline injection and ignition system control unit	Model 220	Remedy

pe07.61-p-2101-99cq	Wiring diagram for ME-SFI [ME] gasoline injection and ignition system control unit	Model 215	Remedy
pe07.61-p-2101-97cac	Wiring diagram for ME-SFI [ME] gasoline injection and ignition system control unit	Model 216	Remedy