

## The intake manifold pressure sensor has a malfunction

Topic number	LI54.18-P-056664
Version	2
Design group	54.18 Cable harnesses
Date	02-06-2014
Validity	Models 172, 204, 207, 212 with engine 271.8 (evo) Only vehicles up to production date 11/2011 are affected. Up to chassis end numbers: 204xxx xA 651830 204xxx xF 808353 204xxx xR 213247 204xxx xL 160434 207xxx xF153320 212xxx xA 556108 212xxx xL 050892 172xxx xF 031052
Reason for change	Fault code adjusted
Reason for block	

### Complaint:

The engine intermittently has reduced output and the engine diagnosis warning lamp is/was active. One or more of the faults relating to the intake manifold pressure sensor listed under 'Control unit / Fault code' may be stored in the engine control unit.

### Cause:

Possible transition resistances in engine wiring harness.

### Remedy:

- Check engine compartment wiring harness for chafe marks and repair if necessary.
  - Check ground connections of engine control unit and clean/repair if necessary.
- If no noticeable problems are found, perform the following work:
- Cut the Z-connector sleeves (Z7/41, Z7/44, see Figure 1 for location) out of the wiring harness and repair using a solder connector; insert an extension piece with solder connectors if necessary.

### Note:

In warranty cases the Z-connector sleeves must be sent in together with the quick test and the fault freeze frame data if necessary.

Attachments	
File	Designation
position Z-Connector.JPG	Figure 1

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

Power generation / Engine management / Engine performance / No/poor output

Control unit/fault code

Control unit	Fault code	Fault text
ME - Motor electronics 'SIM271DE20' for combustion engine 'M271EVO' (N3/10)	P010664	The intake manifold pressure sensor has a malfunction. There is an implausible signal.
ME - Motor electronics 'SIM271DE20' for combustion engine 'M271EVO' (N3/10)	P006800	The position of the throttle valve is implausible relative to the mass air flow or intake manifold pressure. _
ME - Motor electronics 'SIM271DE20' for combustion engine 'M271EVO' (N3/10)	P010600	The intake manifold pressure sensor has a malfunction.

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 002 546 01 41			Solder connector		3.5 – 8.0 mm	X	
A 002 546 00 41			Solder connector		2.0 – 4.0 mm	X	
A 001 546 99 41			Solder connector		0.7 – 2.4 mm	X	
A 002 546 11 41			Solder connector		7.5 – 12 mm	X	

Work units

Op. no.	Operation text	Time	Damage code	Note
			59076 74	Connector/line*, intake manifold pressure sensor

WIS-References

Document number	Title	Note	Allocation
AR00.19-P-0100A	Wiring harness general repair methods		Remedy
AH00.19-P-1000-05A	Assessment of damage to wiring harnesses		Remedy
AR54.18-P-0100-06A	Repair wiring harness using axial solder connectors		Remedy
AR00.19-P-0100-09A	Assessment of damage to wiring harnesses		Remedy

Validity

Vehicle	Engine	Transmission
204.047	271.860	*
204.048	271.860	*
204.049	271.820	*
204.247	271.860	*
204.248	271.860	*
204.249	271.820	*
E (207)	271.860	*
E (212)	271.860	*
SLK (172)	271.861	*

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	711.653
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	711.653
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	711.653
204.249	271.820	711.655

204.249	271.820	716.607
204.249	271.820	716.612
204.249	271.820	722.696
204.249	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	716.607
212.248	271.860	716.612
212.248	271.860	722.696
212.248	271.860	722.997

Attachments

position Z-Connector.  
JPG:

