

Engine diagnosis warning lamp lights up, increased idle speed

Topic number	LI09.20-P-058236
Version	1
Design group	09.20 Intake manifold, intake manifold preheater
Date	01-14-2014
Validity	M 156
Reason for change	
Reason for block	

Complaint:

Engine diagnosis warning lamp lights up, increased idle speed

Note:

Possible stored fault codes:

FC 1061 (The load limiter is active)

FC 1916 (B28 signal implausible)

Cause:

Internal leakage in intake manifold in area of intermediate plate.

Attachments	
File	Designation
Saugrohr Var 4.pdf	Legend: Figure 1 item A Throttle valve and cable, original condition Figure 2 item B Throttle valve and cable removed, intake manifold leaking at marked point Figure 2 item C Intake manifold in direction of travel

Remedy:

1. Remove intake manifold
2. Disassemble intake manifold (see WIS reference).
3. Remove cable of throttle valve and check for any damage/leakage at intermediate plate (see attachment)
4. If there are noticeable problems: Replace intake manifold (see WIS reference)

Note:

- Observe tightening pattern of intake manifold mounting bolts
- Use new bolts

Legend to attachment:

Figure 1 item A Throttle valve and cable, original condition

Figure 2 item B Throttle valve and cable removed, intake manifold leaking at marked point

Figure 2 item C Intake manifold in direction of travel

Symptoms
Power generation / Engine management / Engine running / Surges
Power generation / Engine management / Engine running / RPM too high/low

Power generation / Engine management / Engine running / Runs rough/shakes

Power generation / Engine management / Engine management indicator lamp / Engine diagnosis / lit

Control unit/fault code		
Control unit	Fault code	Fault text
ME - Motor electronics 'ME97 AMG' for combustion engine 'M156' (N3/10), ME 9.7 (AMG) -Motor electronics 9.7 (AMG) (ME97AMG) (CL (216),CLK (209),M (164),E (211),SL (230),R (251),CLS (219),S (221))	1915	B28 (Pressure sensor): Implausible value(P0106)
ME - Motor electronics 'ME97 AMG' for combustion engine 'M156' (N3/10), ME 9.7 (AMG) -Motor electronics 9.7 (AMG) (ME97AMG) (C (204),E (212))	1913	The intake manifold pressure sensor has a malfunction.
ME - Motor electronics 'ME97 AMG' for combustion engine 'M156' (N3/10), ME 9.7 (AMG) -Motor electronics 9.7 (AMG) (ME97AMG) (CL (216),CLK (209),M (164),E (211),SL (230),R (251),CLS (219),S (221))	1916	B28 (Pressure sensor): Implausible value(P0106)
ME - Motor electronics 'ME97 AMG' for combustion engine 'M156' (N3/10), ME 9.7 (AMG) -Motor electronics 9.7 (AMG) (ME97AMG) (C (204),E (212))	1916	The intake manifold pressure sensor has a malfunction.
ME - Motor electronics 'ME97 AMG' for combustion engine 'M156' (N3/10), ME 9.7 (AMG) -Motor electronics 9.7 (AMG) (ME97AMG) (CL (216),CLK (209),M (164),E (211),SL (230),R (251),CLS (219),S (221))	1914	B28 (Pressure sensor): Implausible value(P0106)
ME - Motor electronics 'ME97 AMG' for combustion engine 'M156' (N3/10), ME 9.7 (AMG) -Motor electronics 9.7 (AMG) (ME97AMG) (C (204),E (212))	1915	The intake manifold pressure sensor has a malfunction.
ME - Motor electronics 'ME97 AMG' for combustion engine 'M156' (N3/10), ME 9.7 (AMG) -Motor electronics 9.7 (AMG) (ME97AMG) (CL (216),CLK (209),M (164),E (211),SL (230),R (251),CLS (219),S (221))	1061	The load limit is active.
ME - Motor electronics 'ME97 AMG' for combustion engine 'M156' (N3/10), ME 9.7 (AMG)	1061	The torque control system has triggered torque limitation or shut-off of the combustion engine.

-Motor electronics 9.7 (AMG) (ME97AMG) (C (204),E (212))		
ME - Motor electronics 'ME97 AMG' for combustion engine 'M156' (N3/10), ME 9.7 (AMG) -Motor electronics 9.7 (AMG) (ME97AMG) (CL (216),CLK (209),M (164),E (211),SL (230),R (251),CLS (219),S (221))	1913	B28 (Pressure sensor): Implausible value(P0106)
ME - Motor electronics 'ME97 AMG' for combustion engine 'M156' (N3/10), ME 9.7 (AMG) -Motor electronics 9.7 (AMG) (ME97AMG) (C (204),E (212))	1914	The intake manifold pressure sensor has a malfunction.

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 159 141 05 80			Intake manifold seal	2		X	
A 004 990 53 12			Bolt (aluminum)	10	Only use once	X	
A 156 141 08 01			Intake manifold	1	Code: 923-P98 Also order A 156 010 02 70 for model series 165/251 up to engine ident no. 60 000591	X	
A 156 141 09 01			Intake manifold	1	Code: 923/P98/P61	X	

WIS-References			
Document number	Title	Note	Allocation
AR07.61-P-1401AMG	Remove/install throttle valve actuator	For orientation when disassembling intake manifold	Remedy
AR09.20-P-1961GZS	Remove/install intake manifold	Model 164/251	Remedy
AR09.20-P-1961CMG	Remove/install intake manifold	Model 204/212	Remedy
AR09.20-P-1961TMG	Remove/install intake manifold	Model 209/211/219	Remedy
AR09.20-P-1961SMG	Remove/install intake manifold	Model 216/221	Remedy
AR09.20-P1961RMG	Remove/install intake manifold	Model 230	Remedy

Validity		
Vehicle	Engine	Transmission

*	156.984	*
*	156.980	*
*	156.985	*
*	156.983	*
*	156.982	*
*	156.981	*

Full model designation breakdown		
Vehicle	Engine	Transmission
164.177	156.980	722.907
204.077	156.985	722.907
204.077	156.985	722.930
204.277	156.985	722.907
204.277	156.985	722.930
204.377	156.985	722.907
204.377	156.985	722.930
209.377	156.982	722.907
209.477	156.982	722.907
211.077	156.983	722.907
211.277	156.983	722.907
212.077	156.985	722.930
212.277	156.985	722.930
216.377	156.984	722.907
216.377	156.984	722.930
219.377	156.983	722.907
219.377	156.983	722.930
221.077	156.984	722.907
221.077	156.984	722.930
221.177	156.984	722.907
221.177	156.984	722.930
230.470	156.981	722.930
251.077	156.980	722.907
251.177	156.980	722.907