
Engine in limp-home mode, engine diagnosis indicator lamp lights up, fault code P213862, P213864, P211271, P225113, P019122 or P019185 stored in control unit

Topic number	LI07.08-N-056829
Version	1
Design group	07.08 Control modules
Date	07-18-2013
Validity	MODEL 906 with OM651
Reason for change	Fault codes and remedy added
Reason for block	

Complaint:

Engine in limp-home mode, engine diagnosis indicator lamp lights up, fault code P213862, P213864, P211271, P225113, P019122 or P019185 stored in control unit.

Cause:

Electrical contact of engine control unit (CDID2).

Remedy:

Important: Engine control unit, rail/accelerator pedal must not be replaced!

- Initial repair:

If fault code P213862, P213864, P225113, P019122 or P019185 is stored in the engine control unit

1. Perform quick test
2. Unplug both connectors on engine control unit and reconnect
3. Erase fault memory

If fault code P211271 is stored in the engine control unit:

1. Perform quick test
2. Read/check part number of installed throttle valve actuator

If throttle valve actuator A651 090 00 70, A651 090 02 70 or A651 090 03 70 -> Continue with step 3

If throttle valve actuator A651 090 04 70 -> Continue with step 4

3. Perform throttle valve actuator test with DAS and replace if necessary after the test
4. Unplug both connectors on engine control unit and reconnect
5. Erase fault memory

- Only in case of follow-up repairs:

If one of these fault codes reoccurs in the vehicle after the repair, then perform the following steps:

1. Perform quick test
2. Depending on the fault code, replace the female contacts on the wiring harness at the engine control unit connector

Important: TOOLS: W 220 589 04 99 00 -Wiring harness repair kit, supplement for passenger cars NOTE: Only the listed female contacts must be used (see Parts)!

- Fault code for accelerator pedal: P213862 or P213864

at vehicle wiring harness

Production date before 01.09.2011: Replace female contacts 7, 13, 14, 24, 25, 26 (A003 982 85 26)

Production date as of 01.09.2011: Replace female contact 7 (A003 982 87 26) and replace female contacts 13, 14, 24, 25, 26 (A003 982 85 26)

Production date as of 01.11.2012: Replace female contacts 7, 13, 14 (A003 982 87 26) and replace female contacts 24, 25, 26 (A003 982 85 26)

- Fault code for oxygen sensor P225113

at vehicle wiring harness. Replace female contacts

16, 30, 31, 32, 45 (A 003 982 87 26) and replace oxygen sensor

- Fault code for rail pressure sensor: P019122 or P019185

at engine wiring harness

Replace female contacts 58, 59, 60 (A003 982 85 26)

- Fault code for throttle valve actuator: P211271

at engine wiring harness

Replace female contacts 19, 21, 22 (A003 982 85 26)

3. Erase fault memory

- In case of further follow-up repairs:

1. Perform quick test

2. Create a TIPS case and attach the following documents:

- Quick test 1: First workshop visit # Unplug and replug both engine connectors
- Quick test 2: Second workshop visit # Replace female contacts
- Quick test 3: Current quick test

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 / Poor/delayed throttle response
Power generation / Engine management / Engine performance / No/poor output
Power generation / Engine management / Engine performance / Cuts off
Power generation / Engine management / Engine performance / Poor acceleration

Control unit/fault code		
Control unit	Fault code	Fault text
CDID2Common Rail Diesel Injection (CRD2_NFZ)	P019122	The rail pressure sensor has a malfunction.The signal amplitude is greater than the maximum amplitude.
CDID2Common Rail Diesel Injection (CRD2_NFZ)	P019185	The rail pressure sensor has a malfunction.There is a signal above the permissible limit value.
CDID2Common Rail Diesel Injection (CRD2_NFZ)	P213862	The values from the position sensors of the accelerator pedal are implausible in relation to each other.The signal comparison is faulty.
CDID2Common Rail Diesel Injection (CRD2_NFZ)	P213864	The values from the position sensors of the accelerator pedal are implausible in relation to each other.There is an implausible signal.
CDID2Common Rail Diesel Injection (CRD2_NFZ)	P211271	The throttle valve is jammed closed.The actuator is blocked.
CDID2Common Rail Diesel Injection (CRD2_NFZ)	P225113	The signal return line connection of oxygen sensor 1 (cylinder bank 1) has an electrical fault or open circuit.There is an open circuit.

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 003 982 85 26			Contact		As required	X	
A 003 982 87 26			Contact		As required	X	

Work units				
Op. no.	Operation text	Time	Damage code	Note
07-1739	REPLACE THROTTLE VALVE ACTUATOR		14404 H2	Mixing chamber/throttle valve actuator - Jammed. Only if the throttle valve actuator has to be replaced!
54-0000	UNPLUG CONNECTORS ON ENGINE CONTROL UNIT AND RECONNECT		5900D 01	
54-9203	REPLACE FEMALE CONTACT FOR ENGINE CONTROL UNIT		5900D 01	
07-5303	REPLACE O2 SENSOR OF LAMBDA CONTROL (AFTER CHECK)		5900D 01	
54-1011	PERFORM QUICK TEST		5900D 01	

WIS-References			
Document number	Title	Note	Allocation
WS54.00-Z-9999AZ	Special tool for car electrical system	Overview of wiring harness repair kit	Remedy
PE07.16-D-2101-97AH	Wiring diagram of common rail diesel injection control unit		Remedy

Validity		
Vehicle	Engine	Transmission
Sprinter III	651	*

Full model designation breakdown		
Vehicle	Engine	Transmission
906.111	651.955	711.651
906.111	651.955	711.660
906.111	651.955	711.680
906.111	651.955	711.685
906.111	651.955	722.683

906.111	651.955	722.684
906.111	651.955	722.686
906.111	651.955	722.902
906.111	651.955	722.908
906.111	651.956	711.651
906.111	651.956	711.660
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