

XENTRY

Engine in limp-home mode, engine diagnosis indicator lamp lights up, fault code P213862, P213864, P211271, P225113, P019122, P262613, P019185, P225101 or P019128 stored in control unit

Topic number	LI07.08-N-056829
Version	2
Design group	07.08 Control modules
Date	11-14-2014
Validity	MODEL 906 with OM651
Reason for change	Fault code added
Reason for block	

Complaint:

Engine in limp-home mode, engine diagnosis indicator lamp lights up, fault code P213862, P213864, P211271, P225113, P019122, P262613, P019185, P225101 or P019128 stored in control unit.

Cause:

Contact of engine control unit (CDID2 and CDID3).

Remedy:

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

- Initial repair:**

If fault code P213862, P213864, P225113, P019122, P262613, P019185, P225101 or P019128 is stored in the engine control unit (CDID2 or CDID3):

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: TOOL: 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, P225101 or 262613
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, P019128 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 PTSS 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.
CDI - Motor electronics 'CDID3' for combustion engine 'OM651' (N3/28) (CRD3NFZ)	P225101	The signal return line connection of oxygen sensor 1 (cylinder bank 1) has an electrical fault or open circuit. There is a general electrical fault.
CDI - Motor electronics 'CDID3' for combustion engine 'OM651' (N3/28) (CRD3NFZ)	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.
CDI - Motor electronics 'CDID3' for combustion engine 'OM651' (N3/28) (CRD3NFZ)	P262613	The trimming resistor connection of oxygen sensor 1 (cylinder bank 1) has an electrical fault or open circuit. There is an open circuit.
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.

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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.
CDID2Common Rail Diesel Injection (CRD2_NFZ)	P262613	The trimming resistor connection of oxygen sensor 1 (cylinder bank 1) has an electrical fault or open circuit. There is an open circuit. (MOPF)
CDI - Motor electronics 'CDID3' for combustion engine 'OM651' (N3/28) (CRD3NFZ)	P019128	The rail pressure sensor has a malfunction. The signal offset is outside the permissible range.
CDI - Motor electronics 'CDID3' for combustion engine 'OM651' (N3/28) (CRD3NFZ)	P019122	The rail pressure sensor has a malfunction. The signal amplitude is greater than the maximum amplitude.

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC
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!
54-0765	UNPLUG CONNECTORS ON ENGINE CONTROL UNIT AND RECONNECT - (CHECK CABLE SET (AFTER QUICK TEST))		5900D 01	OPERATIONS: UNPLUG CONNECTORS ON ENGINE CONTROL UNIT AND RECONNECT
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

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PE07.16-D-2101-97AH	Wiring diagram of common rail diesel injection control unit		Remedy
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Validity		
Vehicle	Engine	Transmission
Sprinter III	651	*