

Engine power insufficient, engine diagnosis indicator lamp lights up and differential pressure sensor fault codes current and/or stored in CDI control unit

Topic number	LI07.04-N-056999
Version	4
Design group	07.04 Senders, sensors
Date	09-29-2014
Validity	OM642 in MODEL 906.### #S up to 772677 OM642 in MODEL 906.### #N up to 545455
Reason for change	Distribution extended
Reason for block	

Complaint:

- Engine warning lamp in instrument cluster
- Reduced engine power
- Fault code current/stored in CDI control unit

Cause:

Cause 1:

Iodomethane degassing from the pressure differential hoses (rubber) can be deposited on the differential pressure sensor. Lifting (arrow) of the chip in the differential pressure sensor from the circuit board caused by the degassing of iodomethane from the pressure differential hoses (see picture: 02.jpg).

Cause 2:

Contact fault in electrical connection of diesel particulate filter differential pressure sensor.

Cause 3:

Cooler of exhaust gas recirculation system blocked (see picture: 06.jpg).

Attachments	
File	Description
02.jpg	Chip lifting off circuit board
06.jpg	Cooler of exhaust gas recirculation system

Remedy:

Remedy for cause 1:

Safety notice: Risk of injury to skin and eyes when handling hot or glowing objects. Gloves, protective clothing and safety glasses must be worn when working in the vicinity of the exhaust system.

- Replace differential pressure sensor (see: AR07.04-D-0006SD).
- Replace all pressure differential hoses.

Note: The new hoses do not contain iodomethane.

Note: Disconnect pressure differential hoses from differential pressure sensor carefully to avoid damage.

In all cases the pressure differential hoses must be replaced and reordered! Do not use pressure differential hoses from old stocks!

Remedy for cause 2:

1. Remove air filter housing (see: AR09.10-D-1150SF).
2. Separate electrical connection (1) (see picture: 03.jpg).
3. Replace diesel particulate filter differential pressure sensor (B28/20) (see: AR07.04-D-0006SD).
4. Replace all pressure hoses with hose clamps between diesel particulate filter differential pressure sensor (B28/20) and diesel particulate filter (see: AR09.10-D-1150SF).
5. Cut off wiring harness (2) approx. 10 mm before electrical connection (1) (see picture: 03.jpg at arrow).
6. Cut new lines (3), to length "a" (approx. 150 mm) from the electrical connection (9) (see picture: 03.jpg).

Note: Fabricating the new lines (3) in the workshop is not permissible, as this can lead to more contact faults.

7. Attach new lines (3) to wiring harness (2) with solder connector sleeves (5) (see picture: 03.jpg).

Note: Refer to the circuit diagram when connecting the new lines (3) (see pictures: 04.jpg and 05.jpg).

Special tools: Use special tools 220 589 01 99 40 (wire stripper), 220 589 04 99 00 (wiring harness repair kit supplement for passenger cars) and 129 589 01 98 00 (welding pearl catcher).

Commercially available tools: Hot air gun.

8. Insulate wiring harness (2) and new electrical lines (3) with fabric tape (see picture: 03.jpg).
9. Plug in new electrical connections (9) (see picture: 03.jpg).

Note: The electrical connection (9) must lock correctly.

10. Fasten new electrical wiring harness with cable tie (8) (see picture: 03.jpg).

Note: The cable tie (7) already on the electrical connection (9) must not be removed.

11. Install air filter housing (see: AR09.10-D-1150SF).

Remedy for cause 3:

1. Check cooler of exhaust gas recirculation system.

Condition: Only if fault code 170400 is still present.

Note: If the cooler of the exhaust gas recirculation system is blocked, continue with step 2 below.

2. Create a TIPS case.

Note: In this case a photo of the cooler of the exhaust gas recirculation system must be forwarded to the MPC.

Attachments	
File	Description
03.jpg	Remedy 2: Wiring harness extension for diesel particulate filter differential pressure sensor
04.jpg	Remedy 2: Wiring diagram
05.jpg	Remedy 2: Wiring diagram

Symptoms

Power generation / Engine management / Engine management indicator lamp / Engine diagnosis / lit
Power generation / Engine management / Engine management indicator lamp / Electronic diesel control / lit
Power generation / Engine management / Engine performance / No/poor output
Power generation / Engine management / Engine performance / Poor acceleration

Control unit/fault code		
Control unit	Fault code	Fault text
CDI6Common Rail Diesel Injection (CR6NFZ)	159100	The value of component B28/20 (Diesel particulate filter differential pressure sensor) is implausible.
CDI6Common Rail Diesel Injection (CR6NFZ)	15FF00	B28/20 (Diesel particulate filter differential pressure sensor)-Signal implausible
CDI6Common Rail Diesel Injection (CR6NFZ)	159200	The pressure differential in the diesel particulate filter is too low.
CDI6Common Rail Diesel Injection (CR6NFZ)	156800	The value of component B28/20 (Diesel particulate filter differential pressure sensor) is implausible.
CDI6Common Rail Diesel Injection (CR6NFZ)	170400	Differential pressure sensorDiesel particulate filter-Plausibility error due to defective hose lines
CDI6Common Rail Diesel Injection (CR6NFZ)	15FE00	B28/20 (Diesel particulate filter differential pressure sensor)-Signal implausible
CDI6Common Rail Diesel Injection (CR6NFZ)	118A00	Plausibility error due to defective exhaust gas pressure lines between diesel particulate filter and differential pressure sensor

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 005 997 69 52			Exhaust hose	2	Remedy for cause: 1 and 2. Cut hose to 300 mm before installing.	X	
A 005 997 70 52			Exhaust hose	2	Remedy for cause: 1 and 2. Cut hose to 205 mm before installing.	X	
A 906 997 07 52			Exhaust hose	1	Remedy for cause: 1 and 2.	X	
A 906 997 08 52			Exhaust hose	1	Remedy for cause: 1 and 2.	X	
A 642 905 01 00			Pressure sensor	1	Remedy for cause: 1 and 2.	X	
A 006 997 18 90			Hose clamp		Diameter: 13–14.5 mm. As required.	X	
A 004 997 25 90			Hose clamp		Diameter: 11.5 mm. As required.	X	
A 001 995 19 90			Cable strap	1	Remedy for cause: 2.	X	
A 001 546 99 41			Solder connector sleeves	3	Remedy for cause: 2.	X	
A 006 989 84 85	10		Fabric tape		Remedy for cause: 2. As required.	X	
A 204 440 64 40			Electrical wiring harness	1	Remedy for cause: 2.	X	

Attachments	
File	Description
01.jpg	Exhaust hoses

Work units				
Op. no.	Operation text	Time	Damage code	Note
			14463 73	Differential pressure sensor - Electrical fault

WIS-References			
Document number	Title	Note	Allocation
AR07.04-D-0006SD	Remove/install pressure differential sensor	Note: Also replace hoses.	Remedy
AR09.10-D-1150SF	Remove/install air filter housing		Remedy

Validity		
Vehicle	Engine	Transmission
Sprinter III	642	*

Full model designation breakdown		
Vehicle	Engine	Transmission
906.111	642.896	711.651
906.111	642.896	711.660
906.111	642.896	711.680
906.111	642.896	711.685
906.111	642.896	722.683
906.111	642.896	722.684
906.111	642.896	722.686
906.111	642.896	722.902
906.111	642.896	722.908
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906.111	642.992	711.660
906.111	642.992	711.680
906.111	642.992	711.685
906.111	642.992	722.683
906.111	642.992	722.684
906.111	642.992	722.686
906.111	642.992	722.902
906.111	642.992	722.908

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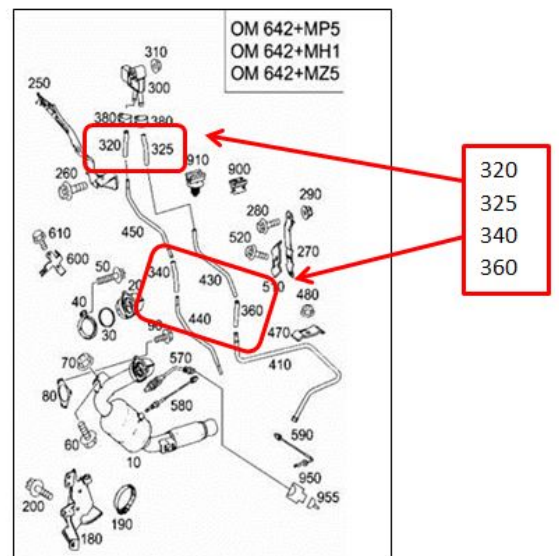
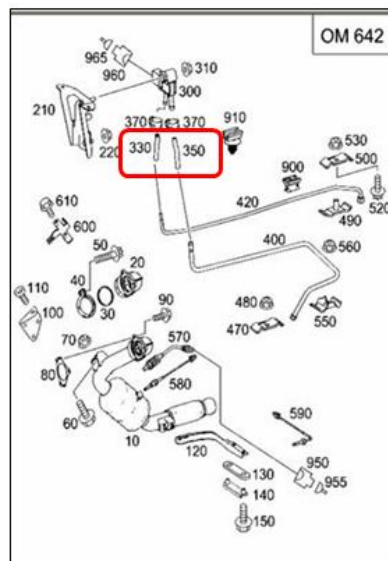
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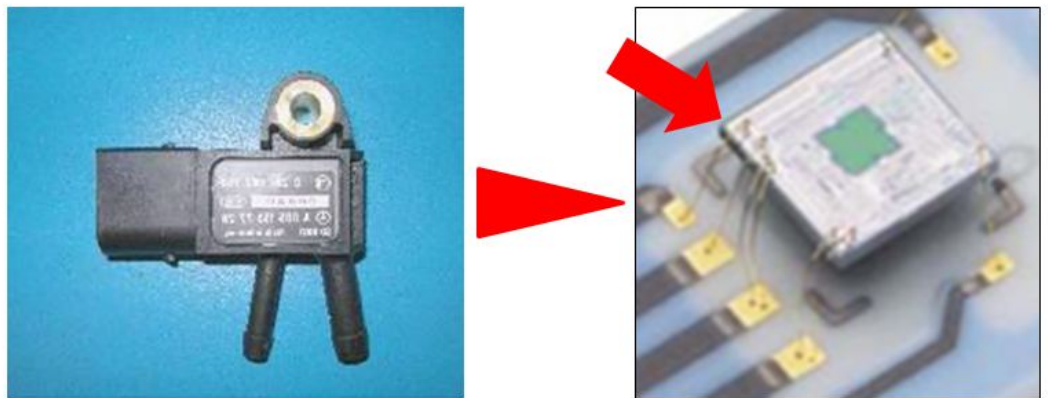
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Attachments

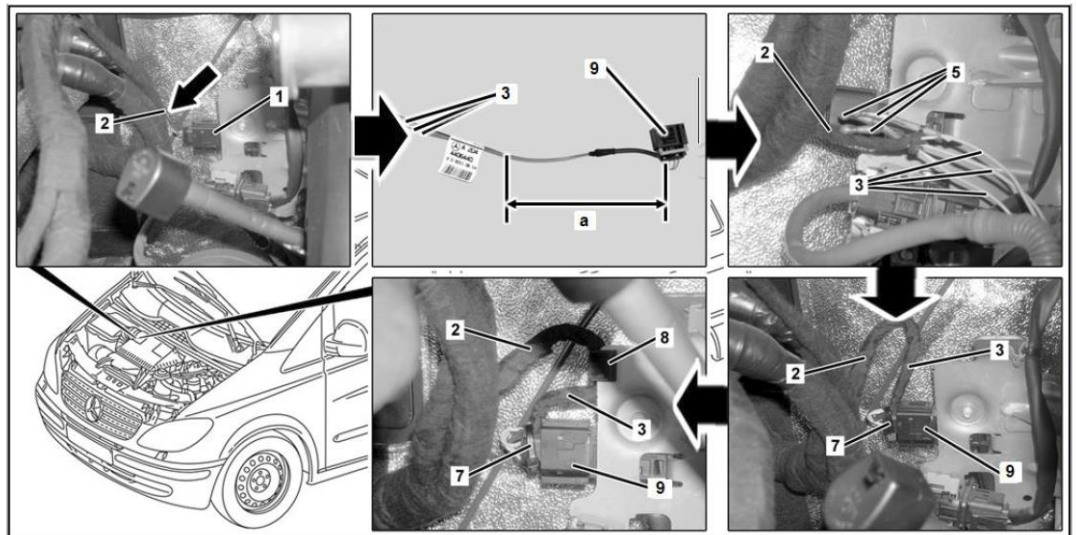
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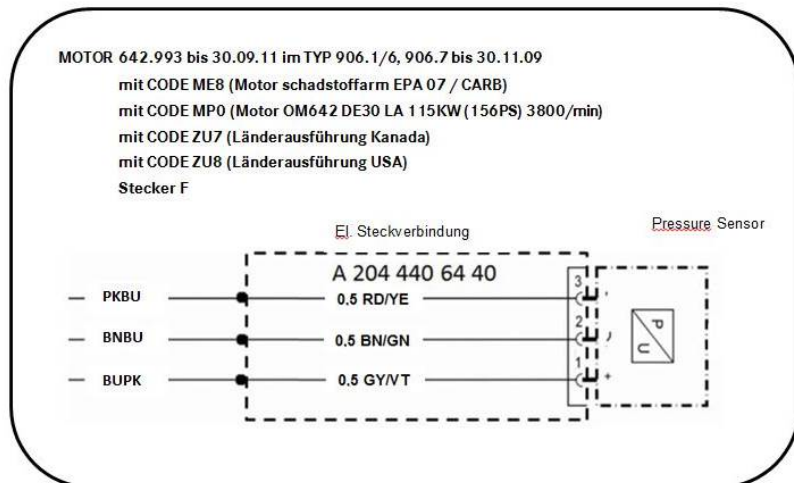
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MOTOR 642.898 bis 8/31/11 im TYP 906.1/6/7
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 mit CODE MH1(Motor schadstoffarm EPA 10 / CARB)
 mit CODE ZU7(Länderausführung Kanada)
 mit CODE ZU8(Länderausführung USA)
 Stecker M

