

Engine running rough, engine diagnosis indicator lamp lights up, fault code P11C300 or P019185 present in CDI control unit

Topic number	LI07.04-N-060527
Version	5
Function group	07.04 Sender, Feeler, Sensors
Date	02-21-2018
Validity	Engine 642 in model 906 ### #S from 819883 to 898437 Engine 642 in model 906 ### #N from 558446 to 580281
Reason for change	Modified complaint field.
Reason for block	

Complaint:
Engine running rough, engine diagnosis indicator lamp lights up, fault code P11C300 or P019185 present in CDI control unit.

Cause:
Possibly incorrectly crimped contact sockets of electrical connector (1) on rail pressure sensor or fuel pressure sensor (2).

Remedy:
Important: Do not replace the rail pressure sensor or the fuel pressure sensor (2)!

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If the fault code P11C300 or P019185 is present in the CDI control unit:

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1. Connect diagnostic device (see AD00.00-D-2000-04SD).

 2. Perform quick test with diagnostic device and print out (see AD00.00-D-2000-04SD).

 3. On model 906: Remove air intake hose (see AR09.10-D-8030SF).

 4. Disconnect electrical connector (1) from rail pressure sensor or fuel pressure sensor (2) (see picture 01).

 5. Cut off electrical connector (1).
Information: The severed electrical connector (1) is no longer required and can be disposed of.

 6. Cut electrical lines (3) offset (dimension (a) = approx. 45 mm) to each other (see picture 02 and AR54.18-D-0100-06A).

XENTRY TIPS

Note: This is necessary so that the axial solder connectors (5) are not directly beside each other in subsequent steps.

Follow the procedure for repairs using axial solder connectors in the WIS document (see AR54.18-D-0100-06A).

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7. Strip wire ends of electrical lines (3, 4).

Information: Dimension (b) = approx. 15 mm, see picture 02 and AR54.18-D-0100-06A.

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8. Cut electrical lines (4) according to lengths of electrical lines (3).

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9. Twist axial solder connectors (5) onto electrical lines (3) (see picture 03).

Note: Only the axial solder connectors (5) specified here may be used!

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10. Twist electrical lines (3) together with electrical lines (4) according to the line colors (see picture 04 and AR54.18-D-0100-06A).

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11. Twist axial solder connectors (5) over the twisted wires (see picture 05).

Note: Position the axial solder connectors (5) centrally over the twisted wires. The red soldering rings are in the center of the axial solder connectors (5).

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12. Use a heat gun (6) to heat the red soldering rings of the axial solder connectors (5) until the red soldering rings melt over the twisted wires.

Information: In this way the electrical lines (3, 4) are soldered together (see picture 04 and AR54.18-D-0100-06A).

Note: Protect the working area with a heat shield (7).

Follow the procedure for axial solder connectors (5) in the WIS document (see AR54.18-D-0100-06A). Only the axial solder connectors (5) specified here may be used!

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13. After the line repair, wrap the repair point with fabric tape (8) (see picture 06 and AR00.19-D-0100-08A).

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14. Cut protective hose (9) to the required length according to the repair point.

Note: Cut the protective plastic wire cover (9) in a spiral with scissors (see picture 07). This makes it easier to pull the protective plastic wire cover (9) over the repair point.

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15. Twist protective plastic wire cover (9) over repair point.

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16. Connect electrical connector repair solution (10) to rail pressure sensor or fuel pressure sensor (2).

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17. On model 906: Install air intake hose (see AR09.10-D-8030SF).
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XENTRY TIPS

18. Perform quick test with diagnostic device and erase fault memory (see AD00.00-S-2000-04SD).

19. Disconnect diagnostic device (see AD00.00-D-2000-04SD).

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If this is a repeat repair:

1. Perform quick test with diagnostic device (see AD00.00-S-2000-04SD).

2. Create a PTSS case and attach the current quick test results and photographs of previous repair.

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Attachments	
File	Description
01.jpg	Electrical connector (1), Rail pressure sensor or fuel pressure sensor (2), Electrical lines (3)
02.jpg	Cut electrical lines (3, 4) offset to each other. Dimension (a) = 45 mm. Remove insulation on line ends Approx. dimension (b) = 15 mm.
03.jpg	Electrical lines (3), Electrical lines (4), Axial solder connectors (5), Electrical connector repair solution (10)
04.jpg	Electrical lines (3), Electrical lines (4), Axial solder connectors (5), Electrical connector repair solution (10)
05.jpg	Axial solder connectors (5), Heat gun (6), Heat shield (7), Electrical connector repair solution (10)
06.jpg	Fabric tape (8), Electrical connector repair solution (10)
07.jpg	Protective hose (9), Electrical connector repair solution (10)

Symptoms
Power generation / 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

XENTRY TIPS

Power generation / Engine management / Engine performance / Poor acceleration

Control unit/fault code

Control unit	Fault code	Fault text
N3/35 - Motor electronics 'CDI60' for combustion engine 'OM642' (CDI) (Code: MP6) (CR60NFZ_EURO6)	P019185	The rail pressure sensor has a malfunction. There is a signal above the permissible limit value.
CDI60Common Rail Diesel Injection (CR60NFZ)	P11C300	The upper limit value of component B4/17 (Rail pressure sensor) has been exceeded.
CDI6Common Rail Diesel Injection (CR6NFZ)	11C300	The upper limit value of component B4/17 (Rail pressure sensor) has been exceeded.

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 642 150 52 01			Electrical connector repair solution	1	Information: The electrical connector repair solution (10) is supplied including the electrical lines (4).	X
A 000 982 96 10			Axial solder connector	3	Axial solder connector with ø 0.8 mm2.	X
A 006 989 84 85	10		Fabric adhesive tape	1		X
A 000 546 16 30			Protective hose	1	Material bought by the meter	X

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
54-1011	PERFORM QUICK TEST	-		
54-9204	REPAIR ELECTRICAL LINE FOR ...	-	07297 73	Rail pressure sensor - Electrical fault The listed damage code is not to be considered as an acceptance of costs. The general guidelines in the Warranty Manual apply.
54-0650	BATTERY CHARGER DURING QUICK TEST			

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-2101-97AV	Wiring diagram of common rail diesel injection control unit	Engine 642 as of 01.07.13 in model 906.1/2/6/7 with code MP6 (Engine version Euro VI)	Remedy

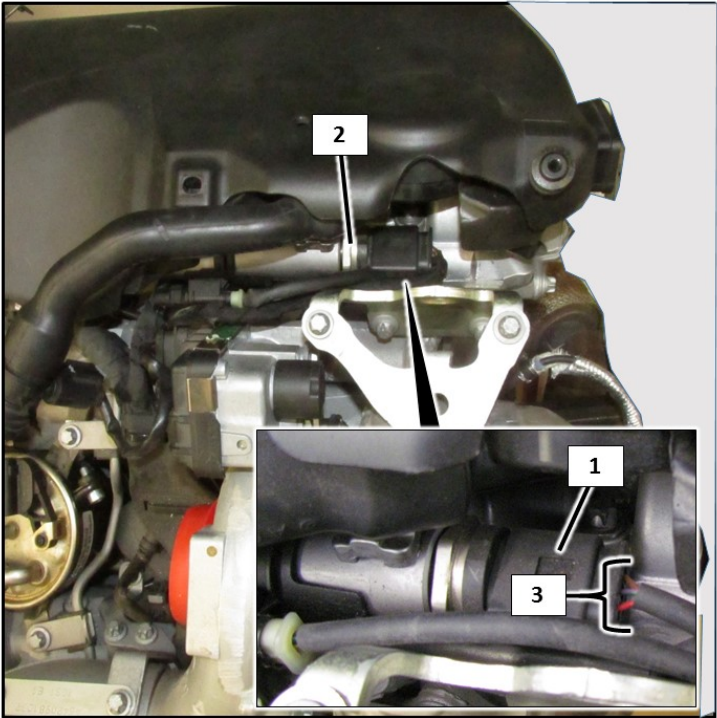
XENTRY TIPS

		except code MH3 (Low-emission engine EPA 13 / CARB) except code ZL3 (National version for Latin America) except code ZU7 (National version for Canada) except code ZU8 (National version for USA)	
AR54.18-D-0100-06A	Repair wiring harness using axial solder connectors	Model 906	Remedy
AR00.19-D-0100-08A	Protect repair point after line repair	Model 906	Remedy
WS54.00-P-0049B	000 588 00 84 00 Heat gun		Remedy
AD00.00-D-2000-04SD	Connect STAR DIAGNOSIS, read out fault memory	Model 906	Remedy
AR09.10-D-8030SF	Remove/install air intake hose	Engine 642.896/898/992/993 in model 906 Air intake hose downstream of air filter	Remedy

Validity		
Vehicle	Engine	Transmission
Sprinter III	642	*

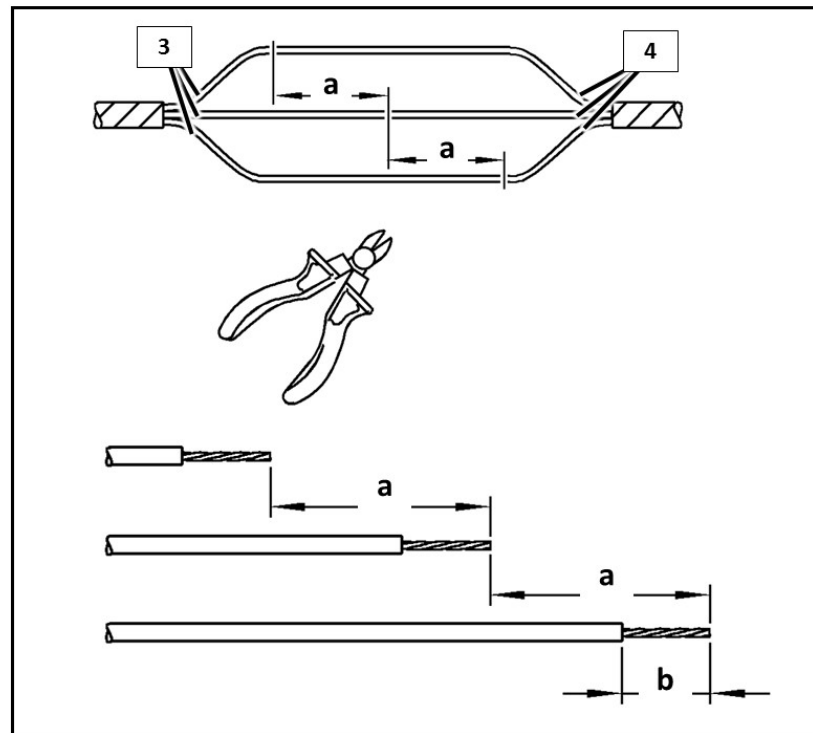
Attachments

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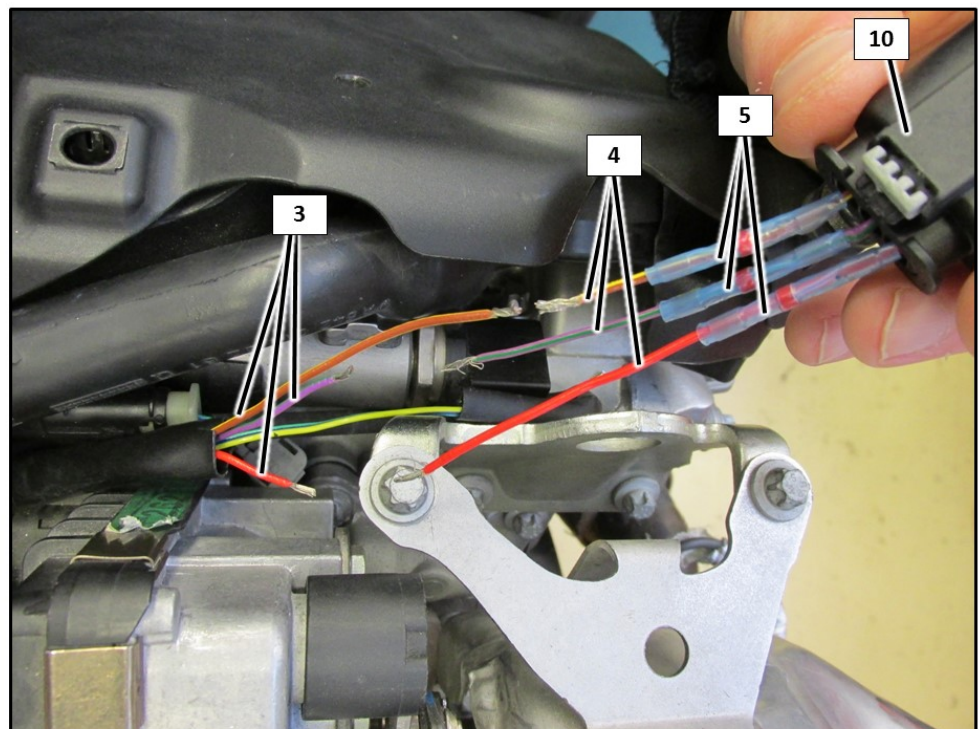


XENTRY TIPS

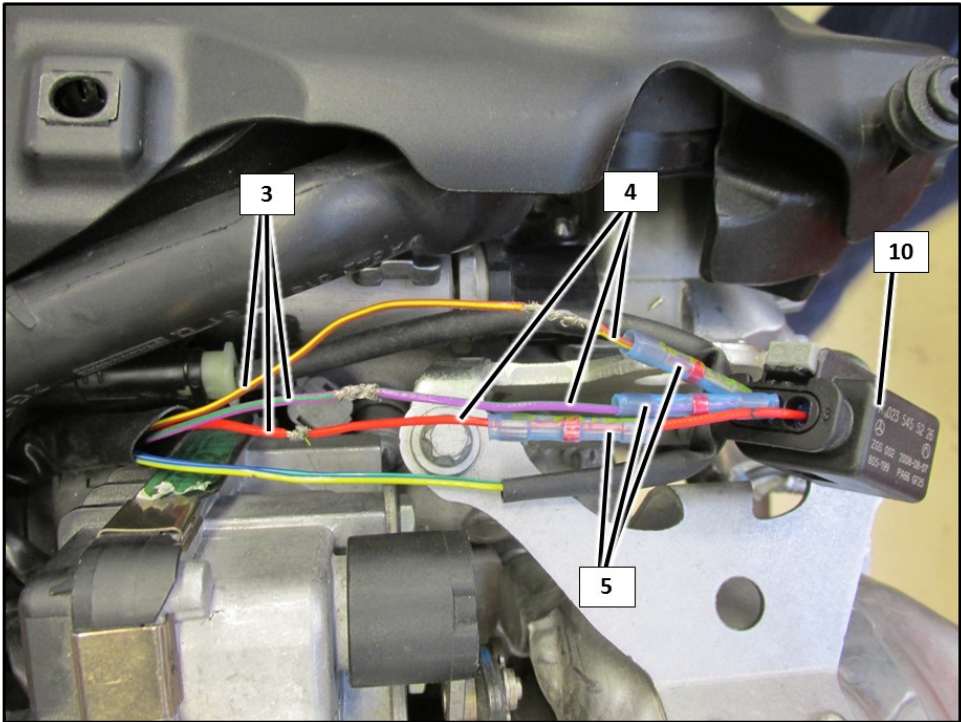
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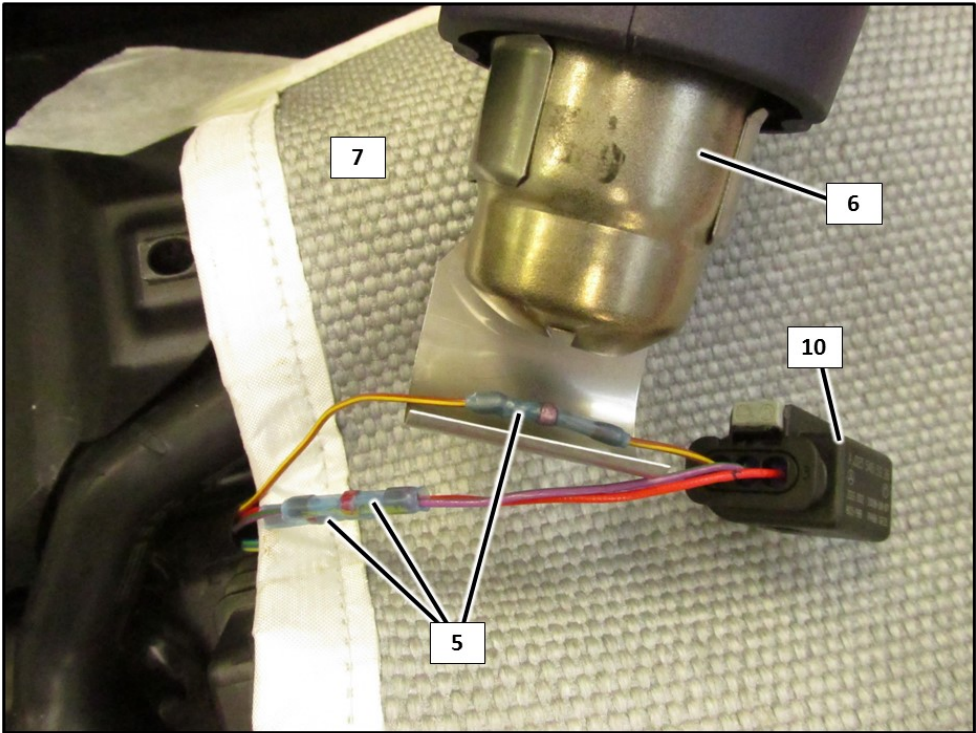
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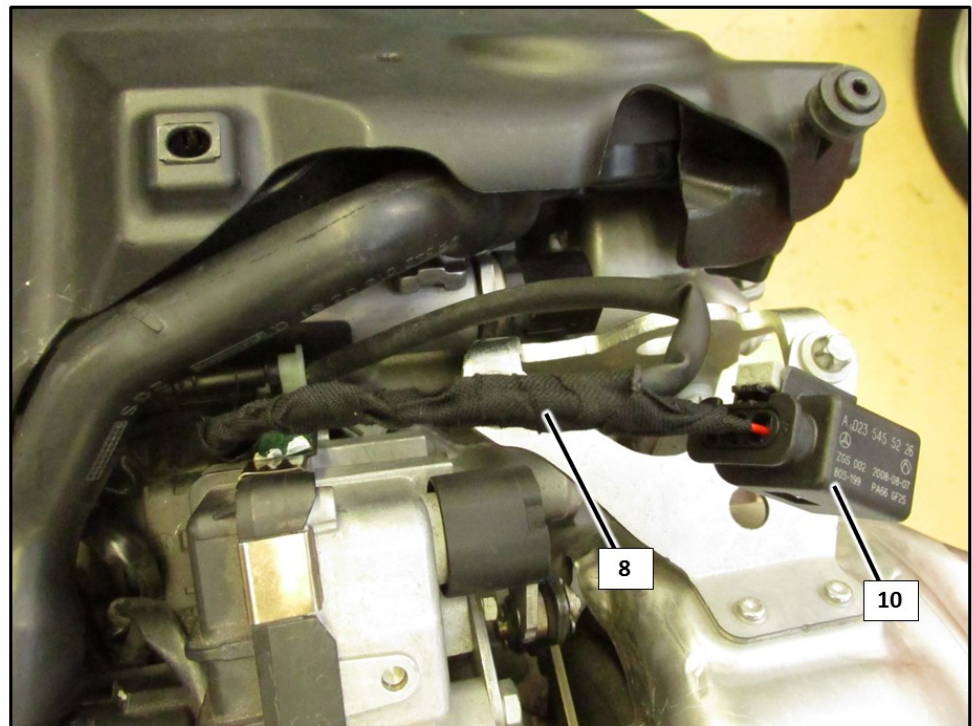
04.jpg:



05.jpg:



06.jpg:



07.jpg:

