

Loss of Power and Check Engine Light with Fault Codes P15FF00 or P245411

Topic number	LI07.08-N-065219
Version	3
Function group	07.08 Governor
Date	03-21-2018
Validity	Model 906.### #N as of 574794 up to 605428 with engine 642 Model 906.### #S as of 874134 up to 977452 with engine 642
Reason for change	Content of remedy updated and additional step (operation step 5) inserted.
Reason for block	

Complaint:

Loss of Power and Check Engine Light with Fault Codes P15FF00 or P245411

Cause:

Engine control unit connection (CR60NFZ).

Remedy:

Important: Do not replace engine control unit, differential pressure sensor and engine wiring harness!

If fault codes P15FF00 or P245411 are stored in the engine control unit (CR60NFZ):

1. Run initial quick test.
2. Visual Inspection: Line condition in area of differential pressure sensor (sensor up to diesel particulate filter) as well as check of electrical connections and wiring up to branch-off line for engine wiring harness.
3. If there is no issue found with any of the components mentioned in test step 2, please remove the engine control unit (see AR07.08-D-7006SD).
4. Clean contact pins on engine control unit as per operation steps 4.1 to 4.4:

4.1 A total of 154 contact pins have to be cleaned on the engine control unit (see 1.jpg).

Important: One cleaning contact is sufficient to clean all the contact pins in a color-marked area (see 2.jpg and 3.jpg).

4.2. Apply cleaning fluid to cleaning contact. Avoid forming droplets! It need only be applied once to clean the specified number of pins per cleaning contact (see 4.jpg).

Warning: Please observe the applicable operating instructions and safety information for this product when handling cleaning fluid.

4.3 The cleaning contact is used for 2 contacts at the same time on the small contact pins. Clean pins by moving up and down 2 times in succession. Slide cleaning contact onto pins until the cleaning contact impacts with the multipoint connector housing (see 5.jpg, 6.jpg and 7.jpg).

Warning: If the cleaning contact is tilted, adjacent contacts may be damaged or bent.

XENTRY TIPS

Important: Cleaning fluid volatilizes immediately after the cleaning process. This means that installation of the cable sets for the engine control unit can be commenced immediately after the cleaning process.

4.4 Install engine control unit (see AR07.08-D-7006SD).

Warning: Care should be taken prior to installation to ensure that the contacts do not exhibit any signs of deformation. Deformation may lead to contact problems in the engine control unit that then render the engine control unit unusable!

5. If cleaning the contact pins does not remedy the problem, the differential pressure sensor repair wiring harness (A 642 150 80 01) must be installed. Use approved end sleeves.
6. Fasten differential pressure sensor plug under engine control unit to vehicle wiring harness using cable tie across center of plug housing (see 8.jpg and 9.jpg.).
7. Erase fault memory.

If this is a repeat repair:

1. Run initial quick test.
2. Create a PTSS case and attach the following documents:
 - Quick test 1: First workshop visit # Clean contact pins on engine control unit
 - Quick test 2: Current quick test with fault freeze frame data

Attachments	
File	Description
1.jpg	View of contact pins on control unit
2.jpg	View of color-marked areas (connection M)
3.jpg	View of color-marked areas (connection F)
4.jpg	Apply cleaning fluid to cleaning contact, Avoid dropping any fluid onto the felt!
5.jpg	Slide cleaning contact onto pins (small) (connection M)
6.jpg	Slide cleaning contact onto pins (large) (connection F)
7.jpg	Slide cleaning contact onto pins (small) (connection F)
8.jpg	Differential pressure sensor plug not fastened
9.jpg	Differential pressure sensor plug fastened

Symptoms
Power generation / Engine management / Indicator lamp / Engine diagnosis / lit
Power generation / Engine management / Engine performance / No/poor output

Control unit/fault code		
Control unit	Fault code	Fault text
CDI60Common Rail Diesel Injection (CR60NFZ)	P15FF00	The signal line of component 'B28/20 (Diesel particulate filter differential pressure sensor)' has a short circuit to ground. (MOPF)

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 540 38 04			Cleaning contact	15	For cleaning contact pins	X

XENTRY TIPS

A 008 989 55 71		Cleaning fluid set	1	For cleaning contact pins. IMPORTANT: Please observe operating instructions and safety information for fluid set	X
A 642 150 80 10		Differential pressure sensor repair wiring harness	1		X

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
54-1011	PERFORM QUICK TEST		5900D 01	
07-1647	CLEAN PINS ON ENGINE MANAGEMENT CONTROL UNIT (AFTER QUICK TEST)		5900D 01	
49-0000	VISUAL INSPECTION		5900D 01	

WIS-References			
Document number	Title	Note	Allocation
PE07.16-D-2101-VVA	Wiring diagram of common rail diesel injection control unit, CR60 commercial vehicle		Remedy
AR07.08-D-7006SD	Remove/install diesel injection system control unit	ENGINE 642 Model 906	Remedy
WS54.00-Z-9999AZ	Special tool for car electrical system	Overview of wiring harness repair kit	Remedy

Validity		
Vehicle	Engine	Transmission
Sprinter III	642.992	*
Sprinter III	642.898	*
Sprinter III	642.896	*
Sprinter III		*
Sprinter III	642.993	*

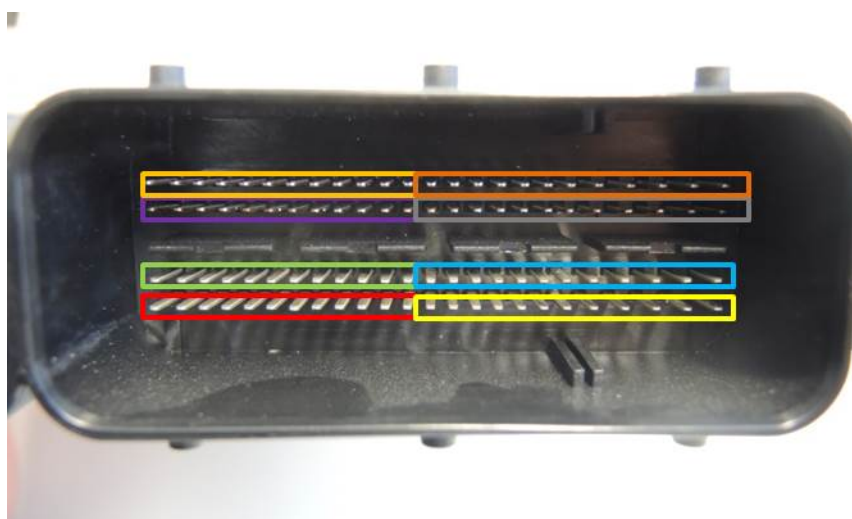
Attachments

XENTRY TIPS

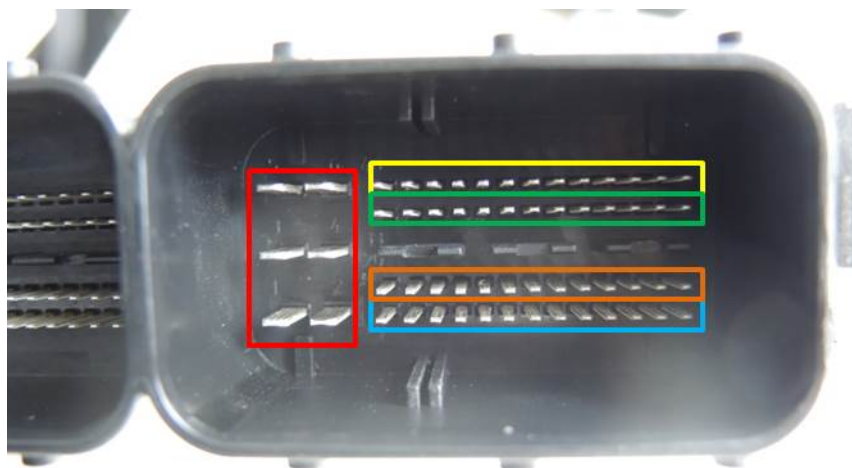
1.jpg:



2.jpg:

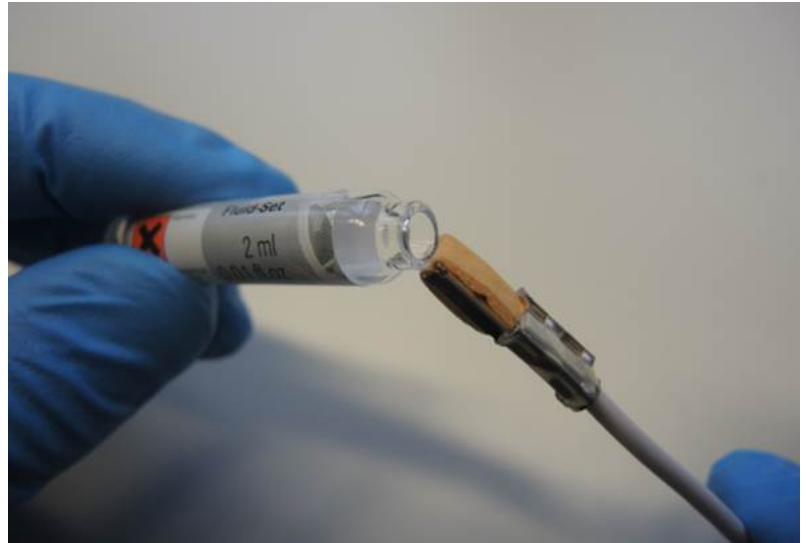


3.jpg:

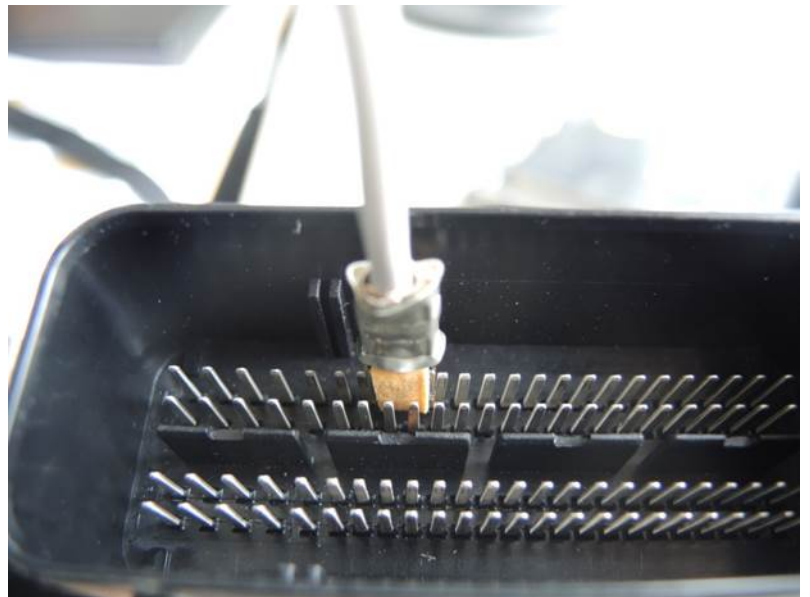


XENTRY TIPS

4.jpg:

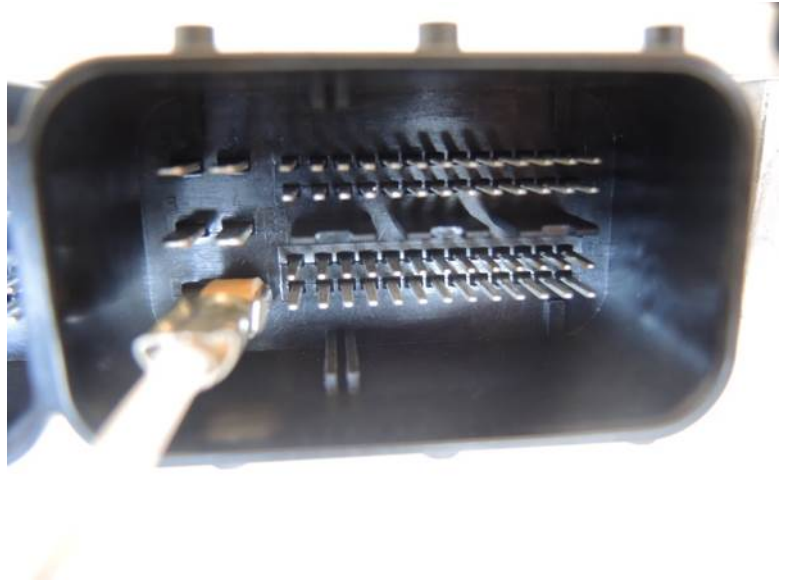


5.jpg:

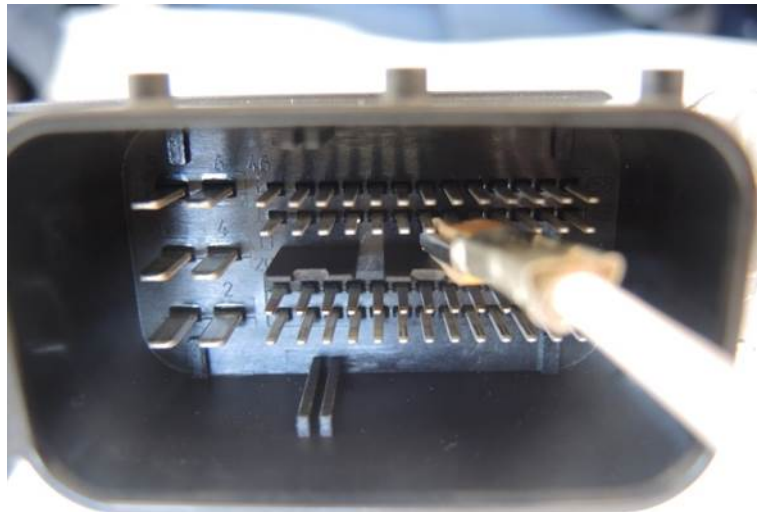


XENTRY TIPS

6.jpg:



7.jpg:



XENTRY TIPS

8.jpg:



9.jpg:

