Check engine light on with one or more of the following DTCs P18BC00, P18BD00

Topic number	LI14.40-N-060212
Version	1
Design group	14.40 Exhaust-gas Aftertreament, AdBlue
Date	11-17-2014
Validity	Sprinter 906 with OM642 Starting with: Cab Chassis with production date of January 7, 2014 (WDAPF4CCXE9574993) All other models with production date of January 6, 2014 (WDZPE8CC1E5878342)
Reason for change	
Reason for block	

Complaint:

Check engine light on with one of the following DTCs:

- P18BC00
- P18BD00

Cause:

Software fault or component failure.

Remedy:

Note: Use the current SDS version and ensure all the latest AddOns have been installed.

Please check the following according to the guided tests:

1. Dosing-Quantity-Test (SCR- Functional Chain)
2. AdBlue-Quality-Test

If an error was NOT found in steps 1 AND 2, please follow steps listed below:

- Print out initial "Short Test with Fault Freeze Frame Data"
- Print out "Performance Data" at standstill
- Print out "Control Unit Log"
- Open a PTSS case including TPR number (242106556) for further instructions
- Provide printouts (steps above) as attachments in the PTSS case

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If an error WAS found in steps 1 OR 2, please follow steps listed below:

- Follow the guided tests and correct fault causing component
- Check Engine Control Unit (CDI) and SCR Control Unit (SCRCM) for newer SW, if found update accordingly
- Initialize NOx sensors
- Delete the fault code memory of the CDI and SCRM

Note: If the fault code 16CF00 or 16CE00 (for OM642) or other faults of the SCR warning scenario are additionally listed in the fault code memory, the following steps are necessary:

In the SCR control unit run the function "Reset parameters: Limit value for warning" under "Teach-in processes".

In the CDI control unit run the function "Reset parameters: Limit value for warning" under "Special processes".

- Print out final "Short Test with Fault Freeze Frame Data" and release the vehicle

Symptoms
Power generation / Engine management / Engine management indicator lamp / Engine diagnosis / lit

Control unit/fault code		
Control unit	Fault code	Fault text
CDI60Common Rail Diesel Injection (CR60NFZ)	P18BC00	The upper limit value for long-term adaptation of the SCR exhaust aftertreatment system was exceeded. (MOPF)
CDI60Common Rail Diesel Injection (CR60NFZ)	P18BD00	The lower limit value for long-term adaptation of the SCR exhaust aftertreatment system was dropped below. (MOPF)

Work units				
Op. no.	Operation text	Time	Damage code	Note
			54581 90	Control unit, diesel engine - Software update
			5443A 90	Control unit, BlueTEC - Software status

Validity		
Vehicle	Engine	Transmission
Sprinter III	642	*

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