

Fault relating to SCR AdBlue warning strategy

Topic number	LI14.40-N-060049
Version	1
Design group	14.40 Exhaust-gas Aftertreatment, AdBlue
Date	10-20-2014
Validity	MODEL 906 with engine OM642 MODEL 906 with engine OM651
Reason for change	
Reason for block	

Complaint:

Fault relating to SCR AdBlue warning strategy.

Cause:

The fault memory was only erased. The fault was not processed completely via the guided troubleshooting in the engine control unit and/or SCR control unit.

Note: It is absolutely essential to process faults relating to the SCR AdBlue warning strategy completely via the guided troubleshooting procedure.

Remedy:

1. Read out and document the fault freeze frame data for each fault code from the engine control unit and the SCR control unit.
2. Record the performance data for the CDI control unit (under "Special processes" in XENTRY Diagnostics) or the development diagnosis sheet (DAS).
3. The guided troubleshooting procedure should be followed in full for each fault code present.
4. After replacing a component of the SCR system (e.g. NOx sensors, metering valve, SCR catalytic converter, etc.), it is essential to perform the corresponding initialization routine in the CDI control unit (under "Adaptations" - "Teach-in processes" - "Initialization after replacement of components").
5. In the SCR control unit run the function "Reset parameters: Limit value for warning" under "Teach-in processes".
6. In the CDI control unit run the function "Reset parameters: Limit value for warning" under "Special processes".

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

Control unit/fault code		
Control unit	Fault code	Fault text
CDI - Motor electronics 'CDI43' for combustion engine 'OM651' (N3/33) (CR43)	P13DF00	AdBlue® system Warning stage 1: The AdBlue® system has a malfunction.
CDI - Motor electronics 'CDI60' for combustion engine 'OM642' (N3/35) (CR60NFZ_ EURO6)	P13DF09	The AdBlue® system has a malfunction. There is a component fault.

CDI60Common Rail Diesel Injection (CR60NFZ)	P16CE00	The AdBlue® system has not yet been tested. The frequency counter 'Possible engine starts' is active. (MOPF)
CDI60Common Rail Diesel Injection (CR60NFZ)	P16D500	null (MOPF)
CDI60Common Rail Diesel Injection (CR60NFZ)	P16D400	The test of the AdBlue system has not yet been carried out. The remaining driving distance is limited.
CDI60Common Rail Diesel Injection (CR60NFZ)	P16D300	null (MOPF)
CDI60Common Rail Diesel Injection (CR60NFZ)	P16CF00	The AdBlue® system has not yet been tested. Frequency counter for tampering attempts on the AdBlue® system (MOPF)
CDI - Motor electronics 'CDI43' for combustion engine 'OM651' (N3/33) (CR43)	P13E500	Starting the engine is not possible due to a malfunction in the AdBlue® system. _ ((#SG/Detached_ECU/Gueltigkeiten/Fehlercode_ausblenden))
CDI - Motor electronics 'CDI43' for combustion engine 'OM651' (N3/33) (CR43)	P13E400	The remaining driving distance is limited due to a malfunction in the AdBlue® system. _ ((#SG/Detached_ECU/Gueltigkeiten/Fehlercode_ausblenden))
CDI - Motor electronics 'CDI43' for combustion engine 'OM651' (N3/33) (CR43)	P13DF09	The AdBlue® system has a malfunction. There is a component fault. ((#SG/Detached_ECU/Gueltigkeiten/Fehlercode_ausblenden))
CDI - Motor electronics 'CDI43' for combustion engine 'OM651' (N3/33) (CR43)	P13E300	AdBlue® system Warning stage 2: The number of possible engine starts is limited due to a malfunction in the AdBlue® system.
CDI - Motor electronics 'CDI60' for combustion engine 'OM642' (N3/35) (CR60NFZ_EURO6)	P13DF00	The AdBlue® system has a malfunction. _
CDI - Motor electronics 'CDI60' for combustion engine 'OM642' (N3/35) (CR60NFZ_EURO6)	P1C7E00	The remaining driving distance and the vehicle speed are limited due to a malfunction in the exhaust aftertreatment system. _
CDI - Motor electronics 'CDI60' for combustion engine 'OM642' (N3/35) (CR60NFZ_EURO6)	P1C7D00	The remaining driving distance without speed limitation is limited due to a malfunction in the exhaust aftertreatment system. _
CDI - Motor electronics 'CDI60' for combustion engine 'OM642' (N3/35) (CR60NFZ_EURO6)	P1C6D00	The vehicle speed will soon be limited due to a malfunction in the exhaust aftertreatment system. _

Validity		
Vehicle	Engine	Transmission
Sprinter III	642	*
Sprinter III	651	*