

Heating element of AdBlue tank has malfunction, fault code 20BE1B and/or 20BD1B logged in BlueTec control unit

Topic number	LI49.20-P-056353
Version	4
Design group	49.20 Exhaust aftertreatment unit
Date	06-01-2015
Validity	Model 164 with engine 642 and SA code U42 (BlueTec SCR diesel exhaust treatment) Model 166 with engine 642 and SA code U42 (BlueTec SCR diesel exhaust treatment) Model X204 with engine 642 and SA code U42 (BlueTec SCR diesel exhaust treatment) Model 212 with engine 642 and SA code U42 (BlueTec SCR diesel exhaust treatment) Model 218 with engine 642 and SA code U42 (BlueTec SCR diesel exhaust treatment) Model 221 with engine 642 and SA code U42 (BlueTec SCR diesel exhaust treatment) Model 251 with engine 642 and SA code U42 (BlueTec SCR diesel exhaust treatment) Model 463 with engine 642 and SA code U42 (BlueTec SCR diesel exhaust treatment)
Reason for change	Text edit
Reason for block	

Complaint:

Engine diagnosis warning lamp active.

Fault code 20BE1B and/or 20BD1B (The heating element of the AdBlue tank has a malfunction) is logged in the Blue-Tec control unit.

Cause:

Due to resistance changes in the heating element, a malfunction may be diagnosed.

Remedy:

1. Work through the guided tests in XENTRY and follow the instructions.
2. Perform the guided test for DTC in the CDI control unit
3. Perform repairs as per guided tests
4. Update the SCR control unit with the latest software using (XENTRY version 03/2013 or later).

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

Control unit/fault code		
Control unit	Fault code	Fault text
SCR - Selective catalytic reduction (N118/5) (SCRCM) (GLK (204),M/GLE (166),E (212),CLS (218),G (463))	20BD1B	The output for the heating element of the AdBlue® tank has an electrical fault or an open circuit.
SCR-Selective Catalytic Reduction (M (164),R (251),S (221),G (463))	20BD1B	The output for heating element 'AdBlue tank' has an electrical fault or open circuit.
SCR - Selective catalytic reduction (N118/5) (SCRCM) (GLK (204),M/GLE (166),E (212),CLS (218),G (463))	20BE1B	The output for the heating element of the AdBlue® tank has a malfunction.
SCR-Selective Catalytic Reduction (M (164),R (251),S (221),G (463))	20BE1B	The output for heating element 'AdBlue tank' has a malfunction.

Validity		
Vehicle	Engine	Transmission
218.323	642	*
218.326	642	*
218.393	642	*
218.394	642	*
218.923	642	*
218.993	642	*
E (212)	642	*
G (463)	642.886	*
G (463)	642.970	*
GLK (204)	642	*
M (164)	642	*
M/GLE (166)	642	*
R (251)	642	*
S (221)	642	*

Full model designation breakdown		
Vehicle	Engine	Transmission
164.120	642.940	722.902
164.121	642.820	722.902
164.122	642.940	722.902
164.124	642.820	722.902
164.125	642.820	722.902
166.023	642.826	722.903
166.023	642.826	725.031

166.024	642.826	722.903
166.024	642.826	725.031
204.983	642.961	722.962
204.992	642.832	722.962
204.993	642.835	722.966
212.020	642.850	722.902
212.021	642.852	711.670
212.021	642.852	722.903
212.021	642.852	725.011
212.023	642.852	711.670
212.023	642.852	722.903
212.023	642.852	725.011
212.024	642.850	711.670
212.024	642.850	722.902
212.024	642.850	725.011
212.025	642.850	711.670
212.025	642.850	722.902
212.025	642.850	725.011
212.025	642.856	711.670
212.025	642.856	722.902
212.025	642.856	725.011
212.026	642.852	711.670
212.026	642.852	722.903
212.026	642.852	725.011
212.027	642.852	711.670
212.027	642.852	722.903
212.027	642.852	725.011
212.089	642.856	722.962
212.093	642.858	722.966
212.093	642.858	725.021
212.094	642.858	722.966
212.094	642.858	725.021
212.220	642.850	722.902
212.221	642.852	711.670
212.221	642.852	722.903
212.221	642.852	725.011
212.223	642.852	711.670
212.223	642.852	722.903
212.223	642.852	725.011
212.224	642.850	711.670
212.224	642.850	722.902
212.224	642.850	725.011
212.225	642.850	711.670

212.225	642.850	722.902
212.225	642.850	725.011
212.226	642.852	711.670
212.226	642.852	722.903
212.226	642.852	725.011
212.227	642.852	711.670
212.227	642.852	722.903
212.227	642.852	725.011
212.289	642.856	722.962
212.293	642.858	722.966
212.293	642.858	725.021
212.294	642.858	722.966
212.294	642.858	725.021
218.323	642.852	722.903
218.323	642.852	725.011
218.323	642.853	722.903
218.323	642.853	725.011
218.326	642.852	722.903
218.326	642.852	725.011
218.393	642.854	722.966
218.393	642.858	722.966
218.394	642.858	722.966
218.923	642.852	722.903
218.923	642.852	725.011
218.923	642.853	722.903
218.923	642.853	725.011
218.993	642.854	722.966
218.993	642.858	722.966
221.022	642.930	722.902
221.026	642.862	722.903
221.080	642.932	722.962
221.083	642.868	722.966
221.122	642.930	722.902
221.126	642.862	722.903
221.180	642.932	722.962
221.183	642.868	722.966
251.020	642.950	722.902
251.021	642.872	722.903
251.022	642.950	722.902
251.023	642.872	722.903
251.026	642.950	722.902
251.122	642.950	722.902
251.123	642.872	722.903

XENTRY

251.124	642.870	722.902
251.125	642.870	722.902
251.126	642.950	722.902
463.303	642.970	722.902
463.306	642.886	722.902
463.306	642.970	722.902
463.336	642.886	722.902
463.340	642.970	722.902
463.341	642.970	722.902
463.346	642.886	722.902