

Engine diagnosis warning lamp lights up - Fault code entry (FC) 14A600 or 14A700

Topic number	LI14.20-P-052079
Version	3
Design group	14.20 Exhaust gas recirculation
Date	01-13-2014
Validity	Engine 642.820/822/830/832/836 in model 164, 204, 207 Engine 642.850/852/853/856/858 in model 212 Engine 642.862/868 in model 221 Engine 642.870/872 in model 251 Engine 642.884/886 in model 461, 463 Engine 642.862 in model 166
Reason for change	Validity adapted
Reason for block	

Complaint:

Engine diagnosis warning lamp lights up.

Note: The fault code (FC) 14A600, 14A700 or 14B100 is stored in the engine control unit.

Cause:

1. Pinched or dislodged seals or boots on the clean air line (in direction of air filter box and turbocharger).
2. An internally deformed corrugated pipe in the exhaust gas recirculation (EGR) system.
3. Carbonization of the EGR inlet point/ EGR pipe.

Attachments	
File	Designation
Bild zerquetschte Dichtung.jpg	Crushed seal - possible cause for FC entry 14A600 or 14A700
Herausgezogene Manschette an der Reinfluftleitung.jpg	Dislodged seal - possible cause for FC entry 14A600 or 14A700
verdr_ckte AGR Leitung IV.JPG	Deformed EGR line in the inner tube
verdr_ckte AGR Leitung V.JPG	Deformed EGR line in the inner tube

Remedy:

Check the relevant seal/boot on the clean air line and the EGR line in the inner tube - replace these components if necessary.

Please refer to the example pictures in the attachment! Both fault profiles lead to EGR rate control outside the permissible range, and therefore result in the above faults being stored in the engine control unit.

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 'CDI60LS' for combustion engine 'OM642' (N3/9) (CR60LS) (GLK (204),C (204),E (212), CLS (218),M (166),E (207))	14A700	The negative control deviation during exhaust gas recirculation control is too high.
CDI - Motor electronics 'CDI60LS' for combustion engine 'OM642' (N3/9) (CR60LS) (GLK (204),C (204),E (212), CLS (218),M (166),E (207))	14A600	The positive control deviation during exhaust gas recirculation control is too high.
CDI - Motor electronics 'CDI60LS' for combustion engine 'OM642' (N3/9) (CR60LS) (GLK (204),C (204),E (212), CLS (218),M (166),E (207))	14B100	Component 'Hot film mass air flow sensor' has a plausibility error.

Validity		
Vehicle	Engine	Transmission
C (204)	642.830	*
C (204)	642.832	*
CLS (218)	642.852	*
CLS (218)	642.853	*
CLS (218)	642.858	*
E (207)	642.836	*
E (212)	642.850	*
E (212)	642.852	*
E (212)	642.856	*
E (212)	642.858	*
G (461)	642.884	*
G (463)	642.886	*
GL (164)	642.820	*
GL (164)	642.822	*
GLK (204)	642.832	*
M (164)	642.820	*
M (166)	642.826	*
R (251)	642.870	*
R (251)	642.872	*
S (221)	642.862	*
S (221)	642.868	*