
Check Engine Lamp illuminated with DTCs P0101FA, P0101Fb or P0101FC in the CDI control unit memory.

Topic number	LI07.07-P-058244
Version	1
Design group	07.07 Air flow meter, air mass meter
Date	01-13-2014
Validity	GLK with engine OM 651 and Bosch CR42 system
Reason for change	Countries extended
Reason for block	

Complaint:

CEL illuminated with below mentioned DTCs in CDI control unit:

P0101FA: "Mass air flow sensor 1 has a malfunction"

P0101FB: "Mass air flow sensor 1 has a malfunction"

P0101FC: "Mass air flow sensor 1 has a malfunction"

Cause:

Several causes are possible.

- Seal under engine control unit compressed.
- Air filter cartridge/element slats distorted.
- Leakage in intake system.

Attachments	
File	Designation
Dichtung verdrückt.JPG	Seal compressed

Remedy:

- Check intake air system for leaks (clean air line and seal under ECU).
- Replace air filter element.
- Reset HFM drift compensation via menu Adaptations > Teach-in processes > Reset HFM drift compensation values (see file "Reset HFM" in attachment). - End diagnosis and disconnect multiplexer from vehicle. - Keep CAN bus idle for 10 min (ignition key removed, veh. locked). - Connect Star Diagnosis and erase fault code.

If the steps listed above are unsuccessful, then perform the next step.

- Check HFM power supply pin 2-3 (should be - 5.0V). - Check resistance of signal lines. (wiring diagram in attachment)

The engine control unit must NOT be replaced to remedy this complaint.

Attachments	
File	Designation
HFM zurücksetzen.pdf	Reset HFM
HFM CR42 OM651.pdf	Wiring diagram

Symptoms
Power generation / Engine management / Engine management indicator lamp / Engine diagnosis / lit
Power generation / Engine management / Engine performance / Goes into limp-home mode

Control unit/fault code		
Control unit	Fault code	Fault text
CDI - Motor electronics 'CR42' for combustion engine 'OM651' (N3/9)	-	-
CDI - Motor electronics 'CR42' for combustion engine 'OM651' (N3/9)	P0101FA	Mass air flow sensor 1 has a malfunction. _
CDI - Motor electronics 'CR42' for combustion engine 'OM651' (N3/9)	P0101FB	Mass air flow sensor 1 has a malfunction. _
CDI - Motor electronics 'CR42' for combustion engine 'OM651' (N3/9)	P0101FC	Mass air flow sensor 1 has a malfunction. _

Validity		
Vehicle	Engine	Transmission
GLK (204)	651	*