

**Engine diagnosis warning lamp lights up. The fault code (FC)
P0101FA or P0101Fb or P0101FC is logged in the engine control unit.**

Topic number	LI07.07-P-058244
Version	6
Design group	07.07 Air flow meter, air mass meter
Date	06-19-2015
Validity	GLK and ML with OM 651 engine and Bosch CR42/CR43 system
Reason for change	Damage code adjusted.
Reason for block	

Complaint:

Engine lamp on and fault code concerning HFM logged.

Cause:

Air filter cartridge/element slats distorted.

Attachments	
File	Description
Dichtung verdrückt.JPG	Seal compressed

Remedy:

- Always replace the air filter element. (Even if it looks new)
- 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)
- Check intake system for leaks.

The engine control unit must NOT be replaced on account of this complaint.

Only replace the HFM if the guided test for the HFM fails. And if the work specified above has been performed.

Attachments	
File	Description
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) (GLK (204))	-	-
CDI - Motor electronics 'CR42' for combustion engine 'OM651' (N3/9) (GLK (204))	P0101FB	Mass air flow sensor 1 has a malfunction. _
CDI - Motor electronics 'CR42' for combustion engine 'OM651' (N3/9) (GLK (204))	P0101FC	Mass air flow sensor 1 has a malfunction. _
CDI - Motor electronics 'CR42' for combustion engine 'OM651' (N3/9) (GLK (204))	P0101FA	Mass air flow sensor 1 has a malfunction. _

Validity		
Vehicle	Engine	Transmission
166.003	651.960	*
166.004	651.960	*
GLK (204)	651.912	*
GLK (204)	651.916	*

Full model designation breakdown		
Vehicle	Engine	Transmission
166.003	651.960	722.908
166.003	651.960	725.031
166.004	651.960	722.908
166.004	651.960	725.031
204.901	651.916	711.653
204.901	651.916	722.908
204.901	651.916	722.996
204.902	651.916	711.653
204.902	651.916	716.658
204.902	651.916	722.908
204.904	651.912	722.965
204.982	651.912	722.965
204.984	651.912	722.965
204.984	651.912	722.967
204.997	651.912	722.965