

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	5
Design group	07.07 Air flow meter, air mass meter
Date	03-28-2014
Validity	GLK and ML with engine OM 651
Reason for change	damage code update
Reason for block	

**Complaint:**

Engine lamp on and fault code concerning HFM logged.

**Cause:**

Air filter cartridge/element slats distorted.

Attachments	
File	Designation
Dichtung verdrückt.JPG	Seal compressed

**Remedy:**

1. Replace air filter element.
2. 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.

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

The engine control unit must NOT be replaced for this complaint.

Only replace the HFM if the guided test fails and steps 1-4 above has been performed.

Attachments	
File	Designation
HFM zurücksetzen.pdf	Reset HFM

## 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. _

## Work units

Op. no.	Operation text	Time	Damage code	Note
			0900H 01	Special Damage Code

## Validity

Vehicle	Engine	Transmission
GLK (204)	651.912	*
GLK (204)	651.916	*
M (166)	651.960	*