

Fuel level sensor fault code P046100 | P046109 | P206600 | P206609 | P13E600 in the FSCM_GEN 4 / 5 / 6

Topic number	LI47.50-P-078804
Version	1
Function group	47.50 - Sender, feeler, sensors
Date	1/24/25
Validity	(N118) FSCM_GEN 4/5/6
Reason for change	Diagrams updated
Reason for block	New version is being compiled

Complaint

Customer-perceived problem:

- Fuel gauge reading implausible
- MIL ON (market-dependent)

N118/3

Fault codes in control units FSCM_GEN4/5/6

- For these fault codes, the tests contained in XENTRY must be carried out
P046109 / P206609 / P13E600
- For these fault codes, the connector couplings/wiring harness routing must be checked for damage
P206600 / P046100

Cause

Various

Remedy

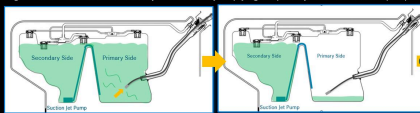
Carry out XENTRY tests for the listed fault codes in the FSCM (N118) and document the monitor graphics for the primary/secondary lever-type sensors.

For additional information, see attachments

Attachments	
File	Description
Prim_Sec_Testing Routine_EN.JPG	

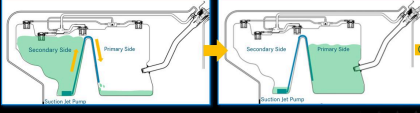
Primary/Secondary fuel fill level sensor test routine

Begin with full tank and start Primary Sensor test by emptying the primary side with external pump



primary good

Begin with empty primary side and start pump-over function test from secondary to primary



secondary good
suction jet pump good

Example: NOK
Suction jet pump „not working“

Mercedes-Benz

Disclaimer

NOTE: The information contained in this document is intended for use by trained, professional technicians with the knowledge to properly and safely perform diagnosis and repairs on Mercedes-Benz vehicles, using Mercedes-Benz approved tools and equipment. It informs service technicians about conditions that could occur in certain vehicles and provides information that could assist in proper vehicle diagnosis, service, or repair. It does not indicate that a defect is present in any vehicle referenced in this document nor does it imply warranty coverage. DO NOT assume that a symptom or condition, or a described cause of a symptom or condition, affects any particular vehicle or groups of vehicles, or that a described repair applies to any particular vehicle or groups of vehicles. There can be multiple causes resulting in the same or similar symptoms or conditions described in this document, and trained professional service technicians must use their diagnostic skills to make evaluations on a case-by-case basis. The information contained in this document does not guarantee warranty coverage nor does it extend the vehicle's warranty in any way.

Symptoms

Power generation > Fuel system > Fuel tank > Function > Different level

Power generation > Engine management > Indicator lamp > Engine diagnosis > lit

Power generation > Fuel system > Indicator lamp > Fuel reserve lamp > lit

Power generation > Fuel system > Indicator lamp > Fuel reserve lamp > Malfunction

Power generation > Fuel system > Fuel tank > Function > Empty too quickly

Control unit/fault code

Control unit	Fault text
N118 - Control unit 'Fuel pump' (FSCU09) (FSCM_GEN5)	P13E600 - The suction jet pump has a malfunction. _
N118 - Control unit 'Fuel pump' (FSCU09) (FSCM_GEN5)	P206800 - The component 'Secondary fill level sensor' has a short circuit to positive. P206700 - The component 'Secondary fill level sensor' has a short circuit to ground P046300 - The component 'Primary fill level sensor' has a short circuit to positive. P046200 - The component 'Primary fill level sensor' has a short circuit to ground
N118/3 - Control unit 'Fuel pump' (FSCU10) (FSCM_GEN6)	P046300 - The component 'Primary fill level sensor' has a short circuit to positive. P046200 - The component 'Primary fill level sensor' has a short circuit to ground

	<p>P206800 - The component 'Secondary fill level sensor' has a short circuit to positive.</p> <p>P206700 - The component 'Secondary fill level sensor' has a short circuit to ground</p> <p>P046109 - The component 'Primary fill level sensor' has a malfunction. There is a component fault.</p> <p>P046100 - The component 'Primary fill level sensor' has a malfunction.</p> <p>P206609 - The component 'Secondary fill level sensor' has a malfunction. There is a component fault.</p> <p>P206600 - The component 'Secondary fill level sensor' has a malfunction.</p>
<p>N118 - Control unit 'Fuel pump' (FSCU08) (FSCM_GEN4)</p>	<p>P046400 - The component 'Primary fill level sensor' has a short circuit to positive.</p> <p>P046300 - The component 'Primary fill level sensor' has a short circuit to positive.</p> <p>P046200 - The component 'Primary fill level sensor' has a short circuit to ground</p> <p>P206900 - The component 'Secondary fill level sensor' has a sporadic malfunction.</p> <p>P206800 - The component 'Secondary fill level sensor' has a short circuit to positive.</p> <p>P206700 - The component 'Secondary fill level sensor' has a short circuit to ground</p> <p>P046109 - The component 'Primary fill level sensor' has a malfunction. There is a component fault.</p> <p>P046100 - The component 'Primary fill level sensor' has a malfunction.</p> <p>P206609 - The component 'Secondary fill level sensor' has a malfunction. There is a component fault.</p> <p>P206600 - The component 'Secondary fill level sensor' has a malfunction.</p>
<p>N118 - Control unit 'Fuel pump' (FSCU09) (FSCM_GEN5)</p>	<p>P046109 - The component 'Primary fill level sensor' has a malfunction. There is a component fault.</p> <p>P046100 - The component 'Primary fill level sensor' has a malfunction.</p> <p>P206609 - The component 'Secondary fill level sensor' has a malfunction. There is a component fault.</p> <p>P206600 - The component 'Secondary fill level sensor' has a malfunction.</p>

XENTRY Tips

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note