

MY19-20 463 with M176/M177 - Poor Acceleration, Rough Running, with Associated Fuel System CEL(s)

Topic number	LI06.10-P-076023
Version	2
Function group	06.10 - Fuel cell
Date	1/5/26
Validity	MY19-20 463 G-Wagon with M176 or M177 Engine
Reason for change	updated pin locations

Complaint

Customer reports illuminated CEL. Additionally no start condition, lack of power, failure to recover from ECO stop, and/or poor acceleration.

Cause

- Under investigation

Remedy

Process FSCU and ME codes via guided test.

Perform fuel pressure test on high and low pressure sides of system.

Check and perform electrical testing from N118 X1 pin 1 to K40/5 S2 pin 1

Check from N118 X1 pin 2 to W10/1 with ignition on. Look for voltage drop.

Check from N118 X2 pin 9 and 10 to X30/21 pin 1 and 2 and check CAN low/high voltages to see if in spec. Check for loose contacts at these pins and/or corrosion.

Check resistance from N118 X1 pin 3,4,5,6 to X18/3 pin 1,4,3,2 and check for loose contacts and/or corrosion. Also pin drag and ensure within spec.

Check and inspect all pins at X18/3 and perform wiggle test while monitoring AV. Ensure within spec.

If all electrical tests pass. Open a TIPS case with the results from them as well as the fuel pressure tests.

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 > Engine management > Engine running > Stalls/goes out
Power generation > Engine management > Engine running > Cuts out intermittently
Power generation > Engine management > Engine running > Runs rough/shakes
Power generation > Fuel system > Fuel pump > Malfunction
Power generation > Engine management > Indicator lamp > Engine diagnosis > lit
Power generation > Engine management > Engine start/stop > Does not start
Power generation > Engine management > Engine performance > No/poor output
Power generation > Engine management > Engine start/stop > No automatic engine start
Power generation > Engine management > Function > Malfunction
Power generation > Engine management > Boost effect > Malfunction

Control unit/fault code	
Control unit	Fault text
N3/10 - Motor electronics 'MED1775' for combustion engine 'M176/M177' (ME) (MED1775)	<p>P00C600 - The fuel pressure in the system during the starting procedure is too low. _</p> <p>P008700 - The fuel pressure in the system is too low. _</p> <p>P01C800 - The fuel pressure (cylinder bank 2) in the system is too low. _</p> <p>P146364 - Sensor 'Low fuel pressure and fuel temperature' has a malfunction during calculation of the fuel pressure. There is an implausible signal.</p> <p>P008A84 - The pressure in the fuel low pressure circuit is too low. There is a signal below the permissible limit value.</p>
N118 - Control unit 'Fuel pump' (FSCU08) (FSCM_GEN4)	<p>P254000 - The signal for the pressure sensor of the low-pressure fuel circuit is implausible. _</p> <p>P008A00 - The pressure in the fuel low pressure circuit is too low. _</p> <p>P008700 - The fuel pressure in the system is too low. _</p>

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

