BMW X3 G01 - check engine lamp comes on

Data sheet	
Manufacturer	BMW
Vehicle model	X3 G01
Engine	2.0 d
Engine code	B47
Year of manufacture	2019 to 2021
Symptoms	Check engine lamp comes on

Important safety information

Error memory entries relating to the diesel particulate sensor

In the case of the vehicle type mentioned above, error memory entries relating to the diesel particulate sensor may be stored in the engine control unit, or a corresponding warning message may be displayed. This fault may be caused by a defective diesel particulate sensor which is providing incorrect or implausible measured values.

The diesel particulate sensor is integrated into the exhaust system downstream of the diesel particulate filter. A measuring sensor is used to record the amount of particles in the exhaust gas. This information is used to control regeneration strategies and also functions relating to emissions.

If no abnormalities have been detected in the power supply or the plug connections during troubleshooting, replacing the diesel particulate sensor may resolve the issue.

If the diesel particulate sensor needs to be replaced, it is essential to ensure that it is installed in the correct position. For models identified appropriately, the marking or QR code on the sensor housing must face downwards (see illustration). Incorrect installation may result in the sensor

failing again. The vehicle manufacturer’s specifications are applicable. Any markings on the spare part are intended to guide you during the installation process.

The sensor must be fitted to the exhaust system using the tightening torque specified by the vehicle manufacturer. The installation location must be dry and completely free of all types of contamination.

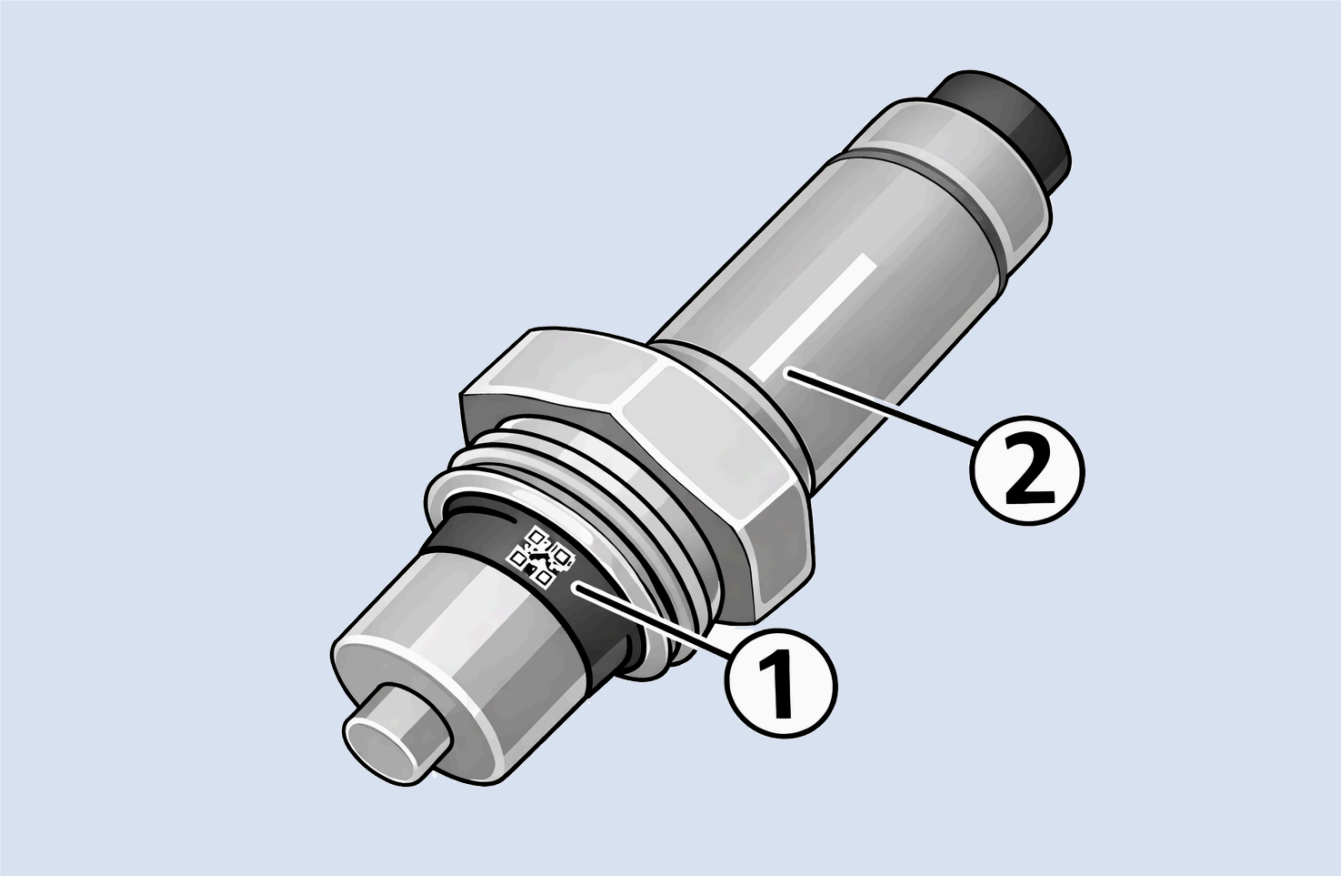
After replacing the diesel particulate sensor, it may be necessary to update the software on the higher-level control units. A software update can be carried out, for example, via Hella Gutmann macsRemote Services or by using a pass-through-capable diagnostic device from the mega macs series. Furthermore, registered access to the vehicle manufacturer's online portal is required. If the appropriate equipment is not available, please contact an authorised specialist workshop.

Once the cause of the fault has been eliminated, delete the error memory and then carry out a test drive.

Please note

Please always observe the maintenance and repair notes provided by the vehicle manufacturer when carrying out such work and checks!

This fault pattern may also occur in other vehicle models with a comparable equipment variant.



An example illustration of a diesel particulate sensor.

On models marked appropriately, the marking (2) or the QR code (1) is used to ensure correct alignment in accordance with the vehicle manufacturer’s specifications