



ELECTRONICS FOR THE EXHAUST SYSTEM

NOx sensors EGR valves/modules AdBlue modules Exhaust gas temperature sensors Oxygen sensors Exhaust pressure sensors Pressure converter Power liftgate

IKA Industrie- und Kraftfahrzeugausrüstung GmbH

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GEOBE PART | SERVICE | SOLUTION

COMPACT KNOWLEDGE: e.g. the NOx sensor

Cause of failure



2. Damaged cable



3. Broken cable at the sensor head



AdBlue deposition with injection below 180°C



The worldwide tightening of exhaust gas limits for passenger cars and commercial vehicles required not only constant improvements in internal engine combustion, but also ever more efficient exhaust gas aftertreatment systems.

The so-called SCR system (selective catalytic reduction) is used in today's vehicles to minimize the high level of pollution caused by nitrogen oxides. The various types of nitrogen oxides (NOx) are minimized by using a chemical process.

The NOx sensor is responsible for controlling and monitoring this process. These sensors measure not only the NOx content in PPM (parts per million), but also the residual oxygen content in the exhaust gas for further emission control and injection processes.

This information is passed on to the NOx control unit in the form of voltage signals. This processes the respective signals and sends them to the SCR and engine control unit via the CAN bus (CAN drive).

When replacing the sensors, please note:

Check environmental factors and ensure proper function:

Defective air mass meters or EGR valves can also impair the control function, as can leaky vacuum lines or exhaust systems.

2. **Optical component inspection:**

The NOx sensors are more exposed to environmental influences, especially in exposed installation positions. These include stone chipping, corrosion or marten bites.

3. Always compare the correct part number on the component with the original number:

Software adjustments to the vehicle or manufacturer-related adjustment measures have ensured that part numbers have been omitted or changed. In order to guarantee 100% assignment regardless of the vehicle code, the comparison is fundamentally necessary.

Calibration/adaptation: 4.

NOx sensors work on the principle of hysteresis. This means that in addition to the external influencing factors, your own measurement tolerance also plays a major role in the target/actual comparison, depending on the condition of the particle filter, among other things. Please refer to the manufacturer's repair instructions to determine whether the sensor needs to be adapted to ensure proper function.

Any commercially available model with OBD2 capability and the ability tocalibrate components is suitable as a test device.



SERVICE & QUALITY

GEBE TEST CENTER



This network of experienced master mechanics and vehicle mechatronics provides our technical department and product management with indispensable practical feedback. This is another cornerstone to ensure that GEBE products perform well on the road.

In addition, we can continuously improve quality and service offerings, from damage analysis for better clarification to detailed function tests. With regular internal and external training courses, we ensure that our partners are well prepared for the constantly increasing requirements.

GEBE TEST LAB

In our own test laboratory in Königswinter, we are simulating the environmental influences, interactions in the exhaust system, as well as extensive runtime testing. To guarantee the high quality and operational readiness of our GEBE products, we are continually improving our capabilities. This not only allows to the quality control and development incl. software mapping on our full product range, but also to be the benchmark in response time with regards to first to market products and software updates.



GEBE TECHNICAL TRAININGS



Training Technik-Tipp

Technik-update









HIGHEST DATA QUALITY

SPARE PARTS STARTERS AND ALTERNATORS ~	SENSOR AND ENGINE MANAGEMENT ~	AUTOMOTIVE ELECTRONICS AND RELAYS ~		 STARTERS A 	STARTERS AND ALTERNATORS ~	
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DATA SUPPLIER



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