



Oil temperature sensor

General

Depending on the type of vehicle, oil temperature sensors may be installed in addition to oil pressure sensors in some vehicles.

The oil temperature sensor sends its information to a separate instrument or to the ECU for monitoring the oil temperature of the engine. In modern vehicles, oil temperature sensors are integrated into the oil level sensor.



Function

In the housing of the temperature sensor, there is a measuring resistor made of semiconductor material having a negative temperature coefficient (NTC). This measuring resistor has a high resistance at low temperatures, which decreases with increasing temperatures.

Possible causes of failure

- Contact failure on connector
- Internal short-circuits
- Damaged measuring element

Effects of failure

- Missing or incorrect information about the engine oil temperature

Troubleshooting

- Check electrical connectors and wiring for proper fit or damage.
- Verify the resistance values of the sensor.