Peugeot 206+ - engine jerks

Data sheet	
Manufacturer	Peugeot
Vehicle model	206+
Engine	1.4i
Year of manufacture	2009 to 2013
Symptoms	Engine jerks and judders
HELLA spare parts to replace	6PT 009 309 -161
Recommended HGS tool	megamacsX

Important safety information

Engine jerks, increased fuel consumption

With the above-mentioned vehicle type, it can happen that engine judder becomes noticeable. Furthermore, another symptom is that fuel consumption can also increase.

If the above-mentioned fault arises and no definite faults have been found in the periphery of the affected systems during troubleshooting, particular attention should be paid to the sensor for the coolant temperature.

This sensor is installed in the engine coolant circuit. It utilises the temperature dependence of materials with negative temperature coefficients (NTC). This means that the resistance of the sensor decreases as the temperature rises. A defective coolant temperature sensor can cause various problems. Difficulties starting the engine, increased idle speed and poor exhaust gas values can all also occur if the sensor is defective.

In the course of further troubleshooting, the temperature sensor should be checked using a suitable diagnostic device on the basis of the parameter query. If abnormalities are detected here, replacing the sensor can remedy the problem. Anomalies that indicate a defective sensor are,

for example, that the engine temperature value remains static, jumps back and forth or is not plausible in relation to the actual engine temperature.

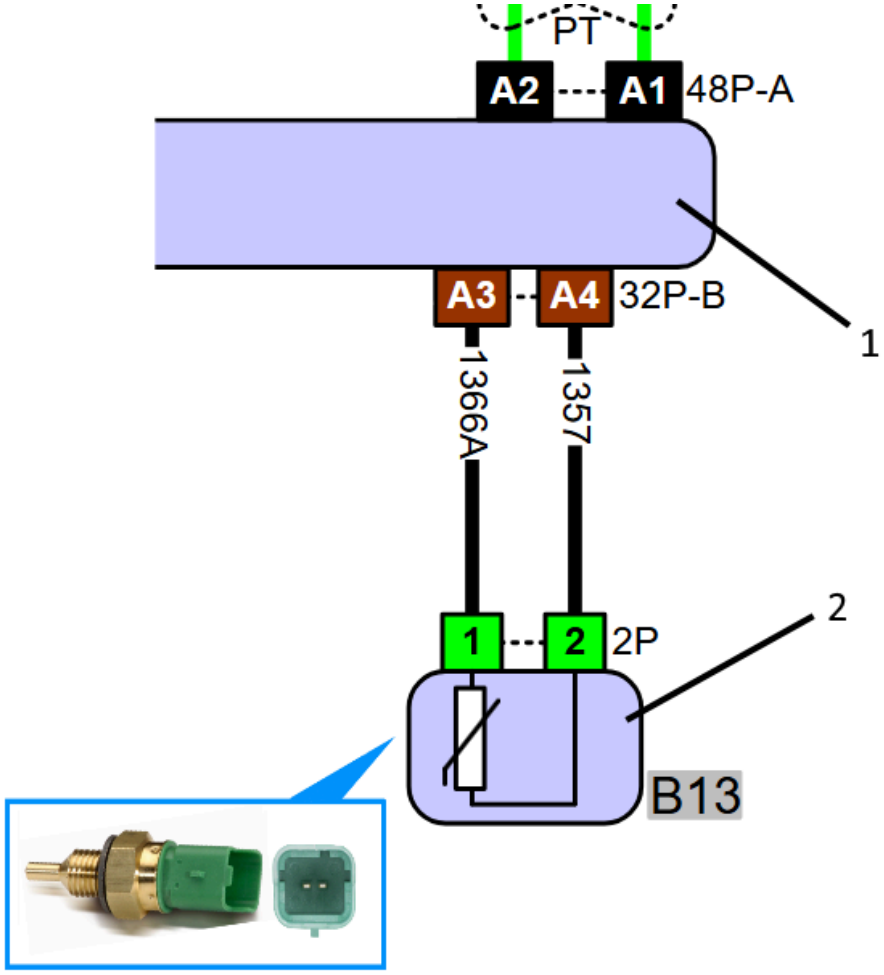
Furthermore, the resistance of the sensor can be checked with a suitable measuring device. The resistance is temperature-dependent, with high impedance when the engine is cold and low impedance when it is warm. These values can be in the following measuring ranges, for example: between 2.0 and 6 kOhm at 25 °C or around 300 Ohm at 80 °C. However, please observe the target values issued by the vehicle manufacturer.

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

Repair and maintenance work on the cooling system must be carried out in accordance with the manufacturer's instructions. Some manufacturers stipulate special venting routines that must be adhered to.

Please note

Please always follow the repair instructions from the vehicle manufacturer when carrying out such work!



Peugeot circuit diagram Caption: 1: Engine control unit 2: Coolant temperature sensor

Reprinting, distribution, reproduction, exploitation in any form whatsoever or disclosure of the contents of this document, even in part, is prohibited unless our express permission has been obtained in writing beforehand and the source is stated. The schematic illustrations, pictures and descriptions are provided for explanatory purposes and are only intended as a visual supplement to the document text, so they cannot be used as the basis for installation or assembly work. All rights reserved.