



Opel Frontera B (6B) Engine: 2.2 i With Kelsey + Hayes ABS

ABS control lamp illuminates

If the ABS control lamp illuminates on these vehicles, the cause could be a defective wheel-speed sensor (See Fig. 1 for an example). As a readout of the fault memory of the Kelsey+Hayes ABS can be taken with only a few test units, an alternative is to test the sensors with the aid of a multimeter. The fuses should be checked beforehand, and the sensors and their electrical plug-connections checked with regard to secure fit and corrosion. The wiring should be checked to make sure that it is not damaged. Furthermore, make sure that the wheel-bearing play is not too great and that the pulse wheel is not damaged/contaminated. The air gap of the sensors is not adjustable. After removal of the electrical plug-connections, the resistance of the sensors can be measured with the multimeter. The ignition must be switched off beforehand.

The measurements should produce the following values:

ABS sensor front right and left: 2100–2600 ohms

ABS sensor rear: 1100–1700 ohms

If the values are not reached, a sensor defect can be assumed. The holder of the sensor is often so corroded that the sensor can be removed only with considerable mechanical assistance, in the course of which the sensor is totally destroyed (Fig. 2). Before fitting the new part, the sensor holder must be cleared completely of rust and dirt.



Under no circumstances should the new sensor be pressed into the holder using force. After replacing the sensor and carrying out a detailed functional test, the fault memory should be deleted.



Fig. 1



Fig. 2