



BMW, all models with M52 engine

Hard starting with the engine warm

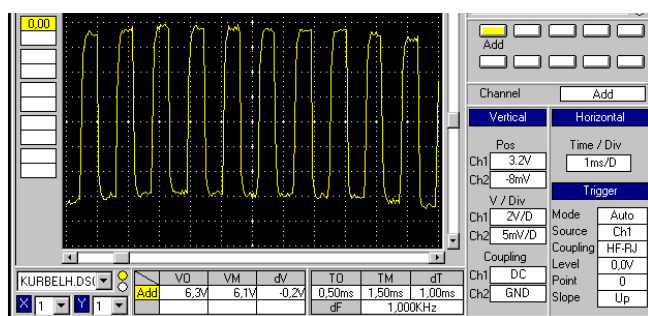
If there are complaints about the above-mentioned fault, the camshaft sensors could be responsible. The customer could also complain about a lack of power when starting from rest. In addition, the fault codes 18 (exhaust camshaft, implausible signal) and 65 (intake camshaft, implausible signal) are stored.

In this case the sensor signal images should be checked using an oscilloscope. Record the signal using a suitable diagnosis cable (see Fig. 1) or two suitable test prods. Evaluate the signal image (see illustrations below). If a signal image is faulty the respective sensor must be replaced.



Fig. 1

Camshaft sensor OK



Camshaft sensor faulty

