

Workshop 51

Testing Crankshaft Position Sensor (Bosch Setup)

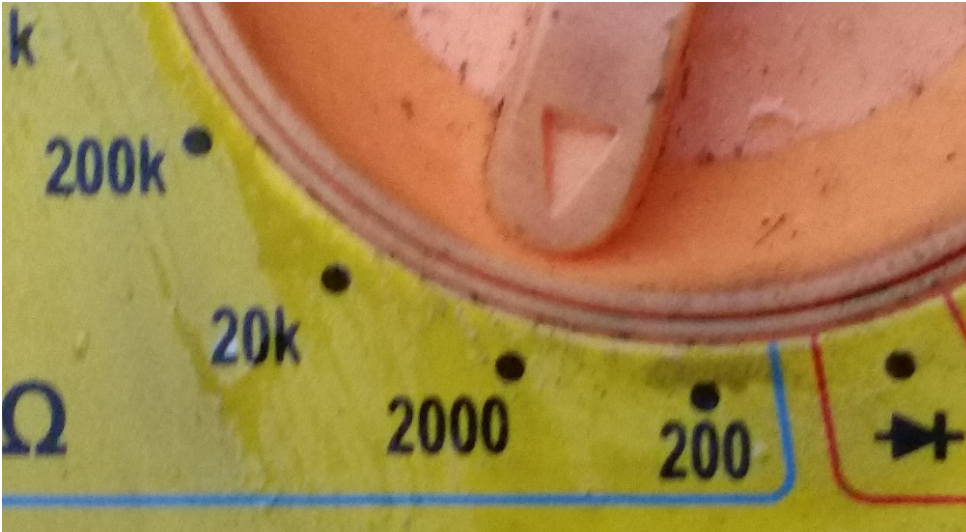
Tools Needed

Digital Multi Meter

On a Bosch setup the Crankshaft Position Sensor is located on the bell housing with the cable and electrical connector running up the side of the engine and ends right next to the engine oil dipstick.

To test the sensor, at the connector grab both sides with finger and thumb and pull upwards (towards you) gently to remove from its mounting, once free the plug can be removed by pressing in the silver retaining pin and pulling the two apart.

Set your multimeter to read Ohms as below;



Then with the plug in hand place the testing probes on the pins as below with the engine OFF.



The expected reading should be **900 ohms at 25 degrees Celsius** according to the workshop download (EC – 388) any more or less and the sensor is faulty and should be replaced. It is advised that a reading is taken whilst the engine is cold and then another when the engine is at normal operating temperature. From my experience the CPS gives me the MIL light at temperature rather than when the engine is warming up.

For reference, the Zexel Terrano setup should read **1500 ohms**

If your sensor is faulty, a direct replacement from Nissan will cost you almost £400, Euro Car Parts also sell a replacement for between £80-90 however an Audi A4 sensor with slight modification can be found here for sum of £12.50 with a few modifications.

<http://www.nissan4x4ownersclub.com/forum/showthread.php?t=24535&highlight=crankshaft+position+sensor>

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