

Workshop 42

Changing the high speed oil sensor on a Terrano ZD 3.0 engine

Introduction

The 3 litre ZD Terrano engine is reasonably reliable but does suffer from the high speed oil pressure sensor failing from time to time (around every 20,000 miles in my case).

Nissan did a recall in 2005 which added a short extension to the rear of the sensor to try and prevent future failures.

Usual symptoms are the oil light fails to extinguish after the engine is first started but if the engine is stopped and restarted after waiting a minute the oil light usually extinguishes. In severe cases the oil light will not extinguish.

Do not automatically assume if the oil light comes on it is a sensor failure !!

Parts and tools required

- 1) Oil sensor Nissan part number 25240-2X901 or sensor with extension and thread-lock (Loctite 271) kit 10007-2X90B **please check part numbers with dealer before purchase.** Note the yellow band.



- 2) 26mm long socket (a 27mm long hex drive socket should also work).
- 3) 1/2" universal joint
- 4) 10" long 1/2" extension.
- 5) 1/2" Ratchet
- 6) Torque wrench
- 7) Jack, axle stand and nut wrench for removing wheel.

Procedure.

- 1) Raise the vehicle remove the offside front (right hand) wheel and support on axel stands.
- 2) Remove the rubber skirt as shown by pulling out the plastic pegs.



- 3) Locate the sensor, it lies above and to the rear of the starter motor. Note:



Picture shows sensor with connector removed.

- 4) Slide back the rubber boot and press with tab with your thumb to remove the connector. (Picture shows connector after removal).



- 5) Remove the sensor using the 26 or 27mm long socket on the end of the 1/2" drivers.



- 6) Lightly coat the thread of the new sensor with thread-lock.
- 7) Screw sensor in by hand as far as it will go.
- 8) Torque to 13-17Nm (9-12 ft lbs) torque DO NOT OVER TIGHTEN !!
(I have assumed both oil pressure sensors are set to the same torque.)
- 9) Refit connector,
- 10) Refit skirt.
- 11) Refit wheel.

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