

### ENGINE CONTROL SYSTEM - EC

#### ZD30DDTi Inputs to ECM

##### 19. Engine Oil Pressure Sensor

An Engine Oil Pressure Sensor is now utilised in place of the Oil Pressure "High" switch utilised on the previous Engine.

The signal from the pressure sensor is sent directly to the ECM. If the ECM detects that the Oil Pressure has fallen below a certain value for given conditions, a signal is sent from the ECM to the Instrument Cluster via CAN.

The Instrument Cluster will then illuminate the Oil Pressure warning light (Red Oil Can).

A standard Oil Pressure "Low" switch continues to be used as well. It is located adjacent to the Oil Filter & it's connected directly to the instrument cluster only. It illuminates the "Red Oil Can" in the conventional manner.

Refer to page 70 of this Training Manual for further discussion on the operation of the Engine Oil Pressure warning light.

##### Engine Oil Pressure Warning Light Operation

If the ECM detects the below conditions, it sends a signal to the Instrument Cluster via CAN.

After the ECM has detected the following conditions for MORE than 5 seconds:

- a) Engine rpm: 3600 – 4200rpm
- b) Coolant temp: Less than 95 deg C
- c) Oil pressure: Less than 2.5 BAR (Oil pressure sensor voltage less than 2V approx.)

The "RED OIL CAN" warning light on the instrument cluster is illuminated by the Unified Meter Control Unit (instrument cluster) after it receives a request from the ECM via CAN to illuminate the light.

##### Engine Oil Pressure Inspection

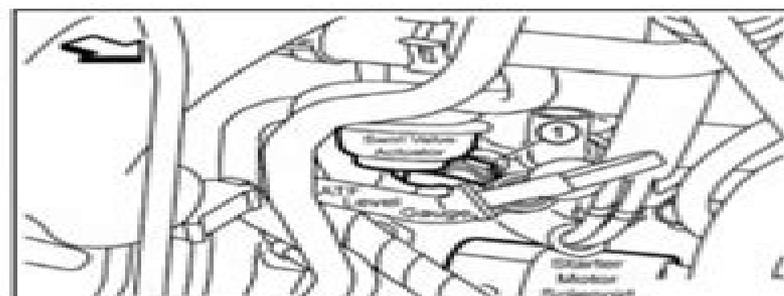
If there is any doubt over the Oil Pressure in the Engine, the Engine Oil Pressure Sensor located above the Starter Motor should be removed & a **Known Good Oil Pressure Gauge** should be installed.

With the engine running at various speeds, the Oil Pressure should be observed & the results written down.

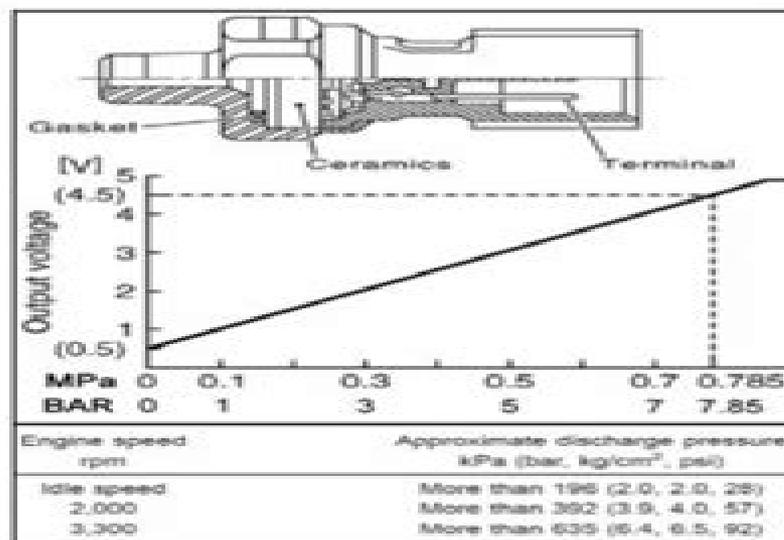
##### Note:

**DO NOT TAKE THE ENGINE OIL PRESSURE READINGS FROM THE OIL PRESSURE SWITCH LOCATION.**

The Oil Pressure SWITCH is located adjacent to the Oil Filter.



1; Oil Pressure Sensor



# Nissan Engineering Standard M0301

**Xiaolong Qi**



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