

ENGINE CONTROL SYSTEM - EC

ZD30DDTi Outputs from ECM

4. Electric Cooling Fan Relay

Whenever the A/C is operated regardless of the engine or ambient temperature, the electric cooling fan located behind the grill is operated. The ECM in actual fact switches on a relay which in turn directs current to the fan motor. If the engine temperature exceeds a pre-determined level the electric fan is also operated with or without the A/C switched on.

5. Air Conditioner Relay

The ECM has the final control over the A/C compressor operation via control of a relay. The driver request for A/C comes from the A/C Amplifier (Auto Temp Control models) or the control panel switch (Manual Temp Control models) on the dash. The signal is sent to the instrument cluster. The signal is then sent from the instrument cluster to the ECM via the CAN.

If conditions such as acceleration demand, excessive engine temperature, excessive A/C system pressure or lack of A/C system pressure (no gas) are NOT evident, the ECM will operate the A/C relay which will direct power to the A/C compressor clutch.

6. EGR Volume Control Valve

The EGR valve is an all new design for the ZD30 CRD engine.

It simply works like a conventional Electric Throttle Control (ETC) valve found on current Petrol engine models.

The valve is operated via a simple 12V DC electric motor. As the valve opens & closes, there is a sensor following the movement of the valve. This sensor sends a signal back to the ECM & therefore the ECM can see what the position the valve is at for any given moment.

NOTE:

If the EGR Valve is disconnected, removed & refitted or replaced, YOU MUST carry out the following operations;

- EGR Volume Control Valve Closed Position Learning Value Clear

- EGR Volume Control Valve Closed Position Learning

Please refer to section EC - Basic Service Procedure in the Service Manual for more detail.



1: Cooling Fan Relay. 2: A/C Compressor Relay
3: Battery



Nissan Zd30ddti Engine Master Service Manual

M Woodhall



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