

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.

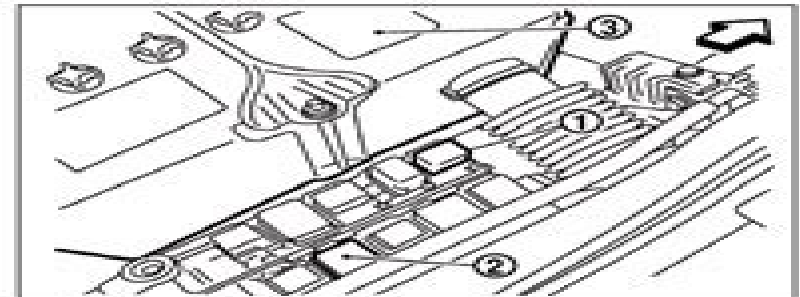
NOTE:

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

Motor Co. Ltd Nissan



Nissan Zd30ddti Engine Master Service Manual:

Nissan Patrol 1998 to 2009 Vehicle Repair Manual Max Ellery, 2009-12-15 Nissan Patrol 1998 to 2009 Diesel and Petrol Gasoline Engines including Turbo with World Wide Specs This manual has over 500 pages It has step by step instructions in every chapter Covering both model produced the Station Wagons and tray models Engine chapters The book covers all diesel engines RD28 TD42 and ZD30 including the common rail engine turbocharged engines are covered All petrol gasoline engines TB42 TB45 and TB48 the TB42 was an option in some countries in the first few years of production Chapters are full of step by step instructions plus plenty of photographs and line illustrations to give the reader explicit detail suitable for everyone regardless of whether you require minor engine work or a major rebuild **Nissan Diesel Engine Repair Manual Model UD63** ,1976* **Nissan Patrol 1998 to 2009 Vehicle Repair Manual** Max Ellery, 2009-12-15 Nissan Patrol 1998 to 2009 Diesel and Petrol Gasoline Engines including Turbo with World Wide Specs This manual has over 500 pages It has step by step instructions in every chapter Covering both model produced the Station Wagons and tray models Engine chapters The book covers all diesel engines RD28 TD42 and ZD30 including the common rail engine turbocharged engines are covered All petrol gasoline engines TB42 TB45 and TB48 the TB42 was an option in some countries in the first few years of production Chapters are full of step by step instructions plus plenty of photographs and line illustrations to give the reader explicit detail suitable for everyone regardless of whether you require minor engine work or a major rebuild **Engine Service Manual** ,1986 **Nissan Model TD Series Diesel Engine** ,1989 Engine Service Manual Nissan Diesel Motor Co Ltd, 1988 **Nissan Service Manual** ,1972 Nissan Engine, Model P Nissan Jidōsha Kabushiki Kaisha, 196? Covers the engine used in the 60 series automobiles **Nissan Datsun Service Manual Model SD22 and SD33 Diesel Engine** ,1980 **Nissan R33 Engine Service Manual** JPNZ (Firm), 2002-01-01 Service Manual Motor Co. Ltd Nissan, 1979 **Diesel Engine Repair Manual** Ken Freund, John Harold Haynes, 1991 Chest pain can be terrifying Many people panic or hope that if they ignore it it will go away But angina must be taken seriously and in addition to taking medical advice it's important to find out what you can do about it and what you can do to help yourself reduce the risk of a heart attack This book answers key questions for anyone worried about angina What is it and why is it happening Does it mean I'm going to have a heart attack What should I do when I have chest pain How do I tell if it's serious Living with Angina is also packed with useful advice about what you can do to deal with high cholesterol or high blood pressure develop a sensible exercise program and make crucial lifestyle changes that will help you live life to the full BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved Service Manual ,1978 **Service Manual, Model A10 & A12 Engine** Nissan Jidōsha Kabushiki Kaisha, 1970 **Service Manual Model L23 Engine** Motor Co. Ltd Nissan, 1975 **Nissan Diesel Engine Model PE6 & PE6(T) Service Manual** Nissan Jidōsha Kabushiki Kaisha, 1986 Nissan Patrol MQ Series 1980-1987 Universal Publishers, 1987-07-01 *Service Manual* ,1972

Cover the engines used in 240Zs and 2000 roadsters
Nissan Car Service Manual. ,1980

SERVICE Manual Datsun NISSAN MOTOR COMPANY.,1977

Whispering the Strategies of Language: An Mental Quest through **Nissan Zd30ddti Engine Master Service Manual**

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