

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



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Table of Contents Nissan Zd30ddti Engine Master Service Manual

1. Understanding the eBook Nissan Zd30ddti Engine Master Service Manual
 - The Rise of Digital Reading Nissan Zd30ddti Engine Master Service Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Nissan Zd30ddti Engine Master Service Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nissan Zd30ddti Engine Master Service Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nissan Zd30ddti Engine Master Service Manual
 - Personalized Recommendations
 - Nissan Zd30ddti Engine Master Service Manual User Reviews and Ratings
 - Nissan Zd30ddti Engine Master Service Manual and Bestseller Lists
5. Accessing Nissan Zd30ddti Engine Master Service Manual Free and Paid eBooks
 - Nissan Zd30ddti Engine Master Service Manual Public Domain eBooks
 - Nissan Zd30ddti Engine Master Service Manual eBook Subscription Services

- Nissan Zd30ddti Engine Master Service Manual Budget-Friendly Options
- 6. Navigating Nissan Zd30ddti Engine Master Service Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Nissan Zd30ddti Engine Master Service Manual Compatibility with Devices
 - Nissan Zd30ddti Engine Master Service Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nissan Zd30ddti Engine Master Service Manual
 - Highlighting and Note-Taking Nissan Zd30ddti Engine Master Service Manual
 - Interactive Elements Nissan Zd30ddti Engine Master Service Manual
- 8. Staying Engaged with Nissan Zd30ddti Engine Master Service Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nissan Zd30ddti Engine Master Service Manual
- 9. Balancing eBooks and Physical Books Nissan Zd30ddti Engine Master Service Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nissan Zd30ddti Engine Master Service Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nissan Zd30ddti Engine Master Service Manual
 - Setting Reading Goals Nissan Zd30ddti Engine Master Service Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nissan Zd30ddti Engine Master Service Manual
 - Fact-Checking eBook Content of Nissan Zd30ddti Engine Master Service Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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