

ENGINE MECHANICAL - EM

ZD30DDTi Intake Manifold

The Intake Manifold as shown right is mounted on the RH side of the Cylinder Head.

An electrically operated Air Intake Control Valve is utilised & the Swirl Valves have been incorporated inside the intake manifold.

Electric Throttle Control Actuator;

On the previous ZD engine as well as the non DPF YD25 engine, the Air Intake Control valve was vacuum controlled. Now on the new ZD30 CRD engine, the valve has the same purpose as previous, however it is electrically operated. Its operation is very much the same as a ETC unit found on many petrol engines.

The Throttle valve is fully opened when the engine is running. The valve is closed only to perform smooth engine stop when the ignition switch is turned OFF. A feedback sensor (Throttle Position Sensor – TPS) is also installed to ensure the ECM can detect the throttle plates position.

(Vacuum operated) Swirl Valves;

The swirl control valve is installed inside the manifold assembly. While idling and during low engine speed operation, the swirl control valve closes, thus the velocity of the air in the intake passage increases to produce a swirl (rush of air to promote cleaner burning when the fuel is injected into the air) into the combustion chamber. Once the engine speed increases to a certain speed, the valves open to allow more air to enter the engine. Further information regarding the components shown right can be found in section EM & EC of the Service Manual.

ZD30DDTi Exhaust Gas Recirculation (EGR) System

Major changes have occurred with the EGR system on the new ZD30 CRD engine.

The EGR volume control valve continues to be electrically controlled by the ECM, however it has a throttle valve arrangement & works in a similar way to an ETC unit found on current petrol engines.

The Pipe linking the exhaust manifold to the EGR control valve assembly is also water cooled as it is on R51 / D40 YD25 A/T models.

Further information regarding the components shown right can be found in section EM & EC of the Service Manual.



A, C, D: Engine Coolant
B: Exhaust Gases

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S Ashworth



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Table of Contents Nissan Zd30 Workshop Manual Yd25

1. Understanding the eBook Nissan Zd30 Workshop Manual Yd25
 - The Rise of Digital Reading Nissan Zd30 Workshop Manual Yd25
 - Advantages of eBooks Over Traditional Books
2. Identifying Nissan Zd30 Workshop Manual Yd25
 - 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 Zd30 Workshop Manual Yd25
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nissan Zd30 Workshop Manual Yd25
 - Personalized Recommendations
 - Nissan Zd30 Workshop Manual Yd25 User Reviews and Ratings
 - Nissan Zd30 Workshop Manual Yd25 and Bestseller Lists
5. Accessing Nissan Zd30 Workshop Manual Yd25 Free and Paid eBooks
 - Nissan Zd30 Workshop Manual Yd25 Public Domain eBooks

- Nissan Zd30 Workshop Manual Yd25 eBook Subscription Services
- Nissan Zd30 Workshop Manual Yd25 Budget-Friendly Options
- 6. Navigating Nissan Zd30 Workshop Manual Yd25 eBook Formats
 - ePub, PDF, MOBI, and More
 - Nissan Zd30 Workshop Manual Yd25 Compatibility with Devices
 - Nissan Zd30 Workshop Manual Yd25 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nissan Zd30 Workshop Manual Yd25
 - Highlighting and Note-Taking Nissan Zd30 Workshop Manual Yd25
 - Interactive Elements Nissan Zd30 Workshop Manual Yd25
- 8. Staying Engaged with Nissan Zd30 Workshop Manual Yd25
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nissan Zd30 Workshop Manual Yd25
- 9. Balancing eBooks and Physical Books Nissan Zd30 Workshop Manual Yd25
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nissan Zd30 Workshop Manual Yd25
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nissan Zd30 Workshop Manual Yd25
 - Setting Reading Goals Nissan Zd30 Workshop Manual Yd25
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nissan Zd30 Workshop Manual Yd25
 - Fact-Checking eBook Content of Nissan Zd30 Workshop Manual Yd25
 - 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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