

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.

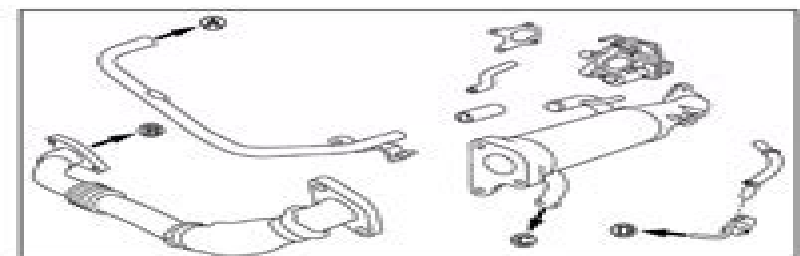
ZD30DDTi Exhaust Gas Recirculation (EGR) System

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

Gu Patrol Workshop Manual Zd30 Motor

Mike Jess

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents Gu Patrol Workshop Manual Zd30 Motor

1. Understanding the eBook Gu Patrol Workshop Manual Zd30 Motor
 - The Rise of Digital Reading Gu Patrol Workshop Manual Zd30 Motor
 - Advantages of eBooks Over Traditional Books
2. Identifying Gu Patrol Workshop Manual Zd30 Motor
 - 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 Gu Patrol Workshop Manual Zd30 Motor
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gu Patrol Workshop Manual Zd30 Motor
 - Personalized Recommendations
 - Gu Patrol Workshop Manual Zd30 Motor User Reviews and Ratings

- Gu Patrol Workshop Manual ZD30 Motor and Bestseller Lists
- 5. Accessing Gu Patrol Workshop Manual ZD30 Motor Free and Paid eBooks
 - Gu Patrol Workshop Manual ZD30 Motor Public Domain eBooks
 - Gu Patrol Workshop Manual ZD30 Motor eBook Subscription Services
 - Gu Patrol Workshop Manual ZD30 Motor Budget-Friendly Options
- 6. Navigating Gu Patrol Workshop Manual ZD30 Motor eBook Formats
 - ePub, PDF, MOBI, and More
 - Gu Patrol Workshop Manual ZD30 Motor Compatibility with Devices
 - Gu Patrol Workshop Manual ZD30 Motor Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gu Patrol Workshop Manual ZD30 Motor
 - Highlighting and Note-Taking Gu Patrol Workshop Manual ZD30 Motor
 - Interactive Elements Gu Patrol Workshop Manual ZD30 Motor
- 8. Staying Engaged with Gu Patrol Workshop Manual ZD30 Motor
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gu Patrol Workshop Manual ZD30 Motor
- 9. Balancing eBooks and Physical Books Gu Patrol Workshop Manual ZD30 Motor
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gu Patrol Workshop Manual ZD30 Motor
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Gu Patrol Workshop Manual ZD30 Motor
 - Setting Reading Goals Gu Patrol Workshop Manual ZD30 Motor
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gu Patrol Workshop Manual ZD30 Motor
 - Fact-Checking eBook Content of Gu Patrol Workshop Manual ZD30 Motor
 - 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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