# NISSAN Learning Academy

ZD30DDTi CRD Engine Name Australia July 2008

## **ENGINE MECHANICAL - EM**

# YD & ZD Engine Comparison Chart

	YD25DDTi (R51 & D40) (Non DPF engine)	ZD30DDTi VP44 (Y61)	ZD30DDTi CRD (Y61)
Cylinder Arrangement	Inline 4 Cylinder	Inline 4 Cylinder	Inline 4 Cylinder
Displacement (cc)	2488	2953	2953
Bore & Stroke (mm)	89.0 x 100	93.0 × 102.0	93.0 × 102.0
Compression Ratio	16.5 : 1	17.9:1	17.9 : 1
Firing Order	1-3-4-2	1-3-4-2	1-3-4-2
Cylinder head	Alloy, cross flow	Alloy, cross flow,	Alloy, cross flow,
Air Intake system	Vacuum operated Air Intake Control valve. (No swirl valves)	Vacuum operated Air Intake Control valve. Swirl valves utilised	Electrically operated Air Intake Control valve. Swirl valves utilised
Valve gear & drive system	DOHC, 16 Valve, shim adjustable. All chain driven	DOHC, 16 Valve, shim adjustable. Combination of gear & chain drive	DOHC, 16 Valve, shim adjustable. Combination of gea & chain drive
Injection	Direct - HP Common Rail (1800 Bar DENSO)	Direct – HP Radial type pump (Basch VP44.)	Direct - HP Common Rail (1600 Bar BOSCH)
Cylinder Block	Cast Iron, 1 piece	Cast iron, 2 piece	Cast iron, 2 piece
Power (kW / rpm) & Torque (Nm / rpm)	128 / 4000 8 403 / 2000	1 16 / 3600 & 352 / 2000 (°4) (°5)	MT; 118/3600 & AT; 118/3600 MT; 380/2000 & AT; 354/2000
Balance Shafts	Separate Unit located in sump, gear driven	Integrated into Engine Block, gear driven	Integrated into Engine Block, gear driven
VNT Turbo & Intercooler	Yes & Yes	Yes & Yes (*4)	Yes & Yes
Engine Oil Pressure detection system	Standard single switch system	Dual switch system (*3, *4) (HP & LP switches)	OP sensor & separate OP switch system
Engine Oil Level detection system	Electronic. Oil Level Gauge to manually inspect also	Oil Level Gauge to manually inspect only	Oil Level Gauge to manually inspect only
Engine Oil Maint. Intervals (km's)	10,000	10,000	10,000
Engine Oil Specification	ACEA B3 10W40 (*1) Do NOT use in DPF models.	ACEA B3 10W40 (*2)	ACEA B3 10W40 (*2)

(\*1) REFER TO STB MA 05-001. (\*2) REFER TO STB MA 04-001. (\*3) REFER TO STB's EC 06-002a, EC 05-006, EC 03-006. (\*4) Not D22 models. (\*5) Increase in power & torque, different specs between AT & M/T on Ser IV, figures not shown.

# Nissan Zd30 Engine Manual

**D** Keegan

Nissan Zd30 Engine Manual:

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# **Table of Contents Nissan Zd30 Engine Manual**

- 1. Understanding the eBook Nissan Zd30 Engine Manual
  - The Rise of Digital Reading Nissan Zd30 Engine Manual
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Nissan Zd30 Engine 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 Zd30 Engine Manual
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Nissan Zd30 Engine Manual
  - Personalized Recommendations
  - Nissan Zd30 Engine Manual User Reviews and Ratings
  - Nissan Zd30 Engine Manual and Bestseller Lists

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