

### 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 x 102.0	93.0 x 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 gear & chain drive
Injection	Direct – HP Common Rail (1800 Bar DENSO)	Direct – HP Radial type pump (Bosch 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 & 403 / 2000	116 / 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 A/T & M/T on Ser IV, figures not shown.

# Nissan Zd30 Engine Manual

**C Cleary**



## **Nissan Zd30 Engine 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 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 Engine, Model P Nissan Jidōsha Kabushiki Kaisha, 196? Covers the engine used in the 60 series automobiles Nissan Model TD Series Diesel Engine, 1989 Nissan Service Manual, 1972 **Nissan Patrol MQ Series 1980-1987** Universal Publishers, 1987-07-01 **Nissan Datsun Service Manual Model SD22 and SD33 Diesel Engine**, 1980 Nissan Owners Workshop Manual Peter G. Strasman, 1986 *Service Manual Model L23 Engine* Motor Co. Ltd Nissan, 1975 Nissan R33 Engine Service Manual JPNZ (Firm), 2002-01-01 Service Manual Motor Co. Ltd Nissan, 1979 **Service Manual**, 1978 *Nissan Model 160 & 61 Series* Nissan Motor Co., Ltd, 1980 **Nissan Model L13, L16 and L20 Engine Service Manual**, 197? Nissan Model 910 Series Service Manual Nissan Motor Co., Ltd, 1980 **Nissan Owners Workshop Manual** P. G. Strasman, John Harold Haynes, 1987 *Service Manual, Model A10 & A12 Engine* Nissan Jidōsha Kabushiki Kaisha, 1970 *Service Manual*, 1969\* Covers the engines used in some Bluebirds 510s 610s and 710s **Nissan Model R 30 Series: Service manual** Nissan Motor Company, 1983

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