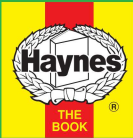


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive  
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HELP

Engine and cooling system4x4 Pick-up 2.4i CAT (D21)1990 to 1994

Type		Z24i SOHC
Capacity (cm³) / number of cylinders		2389 / 4
Compression ratio / pressure	bar	8.3 / ≥9.0
Oil pressure	bar	[3.2 to 4.6]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.30 H
Valve clearance - exhaust	mm	0.30 H
Firing order		1-3-4-2
No 1 cylinder position		F
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	0.78 to 1.00

Fuel system4x4 Pick-up 2.4i CAT (D21)1990 to 1994

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 7.0 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Nissan TBI ECCS
Type / ref		
Main jet / needle		
Injection pressure	bar	2.5
Pump pressure	bar	—
Octane rating	RON	91[U]

Ignition system4x4 Pick-up 2.4i CAT (D21)1990 to 1994

Type		Electronic
Ignition coil		2x CIT-72/106, STC-72/106
Primary resistance	ohms	0.84 to 1.02
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Mitsubishi
Points gap (air gap)	mm	[0.30 to 0.50]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static]	° Crankshaft @ rpm	10±2 BTDC @ 800±50
V = Vacuum  NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	—
° Crankshaft @ rpm		—
° Crankshaft @ rpm		—
Centrifugal check.	° Crankshaft @ rpm	0 to 1 @ 1274 to 1320
° Crankshaft @ rpm		12 to 15 @ 2650
° Crankshaft @ rpm		17 to 21 @ 4200
Vacuum range check	mbar	133 to 307
Maximum vacuum advance	° Crankshaft	21
Spark plugs		NGK/Champion
Type		BPR5ES / RN9YC
Electrode gap	mm	0.80 to 0.90

Electrical system4x4 Pick-up 2.4i CAT (D21)1990 to 1994

Battery	V / CC / RC	12 / 180 / 60Ah
Alternator voltage / full load current / engine rpm		14.4 to 15.0 / 60 / 2500
Starter motor current / voltage - cranking	A / V	100 / 11.0
- locked	A / V	—

Running gear4x4 Pick-up 2.4i CAT (D21)1990 to 1994

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.5
Tyres		
Saloon	Size	—
Estate / Van	Size	205x16: 215x15
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	1.8 / 2.2
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+4.0±1.0°
Camber		+36±30°
Castor		+1°18'±30°²
King pin inclination		+8°5'±30°
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	—
Camber		—

Torque wrench settings4x4 Pick-up 2.4i CAT (D21)1990 to 1994

Cylinder head - stage 1	Nm	29
- stage 2	Nm	78
Cylinder head - stage 3	Nm	Loosen, then 29
- stage 4	Nm	+ 90 to 95°
Big-end bearings	Nm	37 to 45
Main bearings	Nm	44 to 54
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	137 to 157
Front hubs	Nm	WSM
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	118 to 147
Spark plugs	Nm	20 to 29

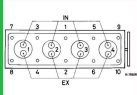
Capacities4x4 Pick-up 2.4i CAT (D21)1990 to 1994

Engine oil & filter	litres	4.3
Gearbox - 4-speed [5-speed]	litres	4.0²
Automatic transmission - refill	litres	—
Final drive	litres	Front: 1.3²
Cooling system	litres	8.2
Fuel tank	litres	60, 80

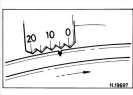
Notes and Illustrations

¹Wagon: +3.0±1.0°  
²Wagon: +1°37'±30°  
³Transfer: 2.2  
⁴Rear: 2.8

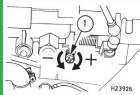
1: Idle speed2: CO / Mixture



2389 cm³, 8V



2389 cm³, 8V



TBI ECCS