

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



Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system 4x4 Pick-up 2.4i CAT (D21) 1990 to 1994

Type		Z24i SOHC
Capacity (cm ³) / 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 system 4x4 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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Nissan
Type / ref		TBI ECCS
Main jet / needle		—
Injection pressure	bar	2.5
Pump pressure	bar	—
Octane rating	RON	91[U]

Ignition system 4x4 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 system 4x4 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 gear 4x4 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 ¹
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 settings 4x4 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

Capacities 4x4 Pick-up 2.4i CAT (D21) 1990 to 1994

Engine oil & filter	litres	4.3
Gearbox - 4-speed [5-speed]	litres	4.0 ³
Automatic transmission - refill	litres	—
Final drive	litres	Front: 1.3 ⁴
Cooling system	litres	8.2
Fuel tank	litres	60, 80

Notes and Illustrations

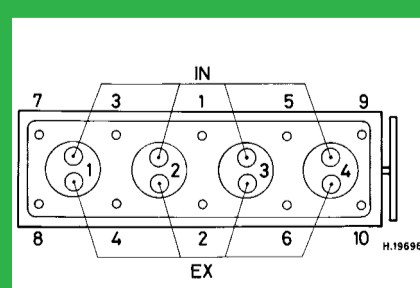
¹Wagon: +3.0±1.0

²Wagon: +1°37'±30'

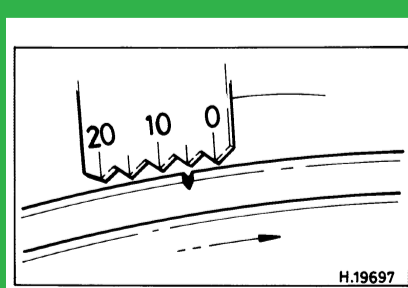
³Transfer: 2.2

⁴Rear: 2.8

1: Idle speed 2: CO / Mixture



2389 cm³, 8V



2389 cm³, 8V



TBi ECCS