

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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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 systemVanette 2.4i CAT (C22)1987 to 1994

Type		Z24i SOHC
Capacity (cm³) / number of cylinders		2389 / 4
Compression ratio / pressure	bar	8.3 / ≥9.0
Oil pressure	bar	[2.9 to 3.9]
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 systemVanette 2.4i CAT (C22)1987 to 1994

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
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 systemVanette 2.4i CAT (C22)1987 to 1994

Type		Electronic
Ignition coil		Hanshin MCC-110A & 110B
Primary resistance	ohms	0.8 to 1.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Hitachi
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static]	° Crankshaft @ rpm	10±2 BTDC @ 800±50
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	ECCS control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	ECCS control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK/Champion
Type		BPR5ES / RN9YC
Electrode gap	mm	0.80 to 0.90

Electrical systemVanette 2.4i CAT (C22)1987 to 1994

Battery	V / CC / RC	12 / 65Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 70 / 2500
Starter motor current / voltage - cranking	A / V	100 / 11.0 (no load)
- locked	A / V	—

Running gearVanette 2.4i CAT (C22)1987 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	195/70x14
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	3.0 / 3.0
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0 to +1.0 ¹
Camber		-15° to +45° ¹
Castor		+1°5' to 2°5'±1
King pin inclination		+9° to 10° ¹
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	—
Camber		—

Torque wrench settingsVanette 2.4i CAT (C22)1987 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	265 to 353
Rear hubs	Nm	—
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

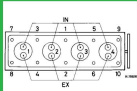
CapacitiesVanette 2.4i CAT (C22)1987 to 1994

Engine oil & filter	litres	4.1
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	—
Final drive	litres	1.3
Cooling system	litres	9.1
Fuel tank	litres	55

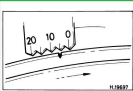
Notes and Illustrations

¹90 ±: -1.0 to +3.0
¹90 ±: -30° to +1°
¹90 ±: +50° to 2°20'
¹90 ±: +8°45' to 10°15'

1: Idle speed 2: CO / Mixture



2389 cm³



2389 cm³



Nissan TBI ECCS