

Engine & Cooling

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Automotive Technical
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Engine and cooling systemQX 3.0 (A32)1994 to 1997

Type		VQ30DE DOHC 24V V6 143kW
Capacity (cm ³) / number of cylinders		2988 / 6
Compression ratio / pressure	bar	10.0 / ≥9.8
Oil pressure	bar	[4.3 to 5.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.26 to 0.34
Valve clearance - exhaust	mm	0.29 to 0.37
Firing order		1-2-3-4-5-6
No 1 cylinder position		—
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	0.8 to 1.0

Fuel systemQX 3.0 (A32)1994 to 1997

Idle speed - manual [auto]	rpm	625±50 [700±50]
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
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
Type / ref		ECCS MPI
Main jet / needle		—
Injection pressure	bar	2.35
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemQX 3.0 (A32)1994 to 1997

Type		Electronic
Ignition coil		—
Primary resistance	ohms	—
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	15±2 BTDC @ 675 [700]
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK
Type		PFR6G-11
Electrode gap	mm	1.00 to 1.10

Electrical systemQX 3.0 (A32)1994 to 1997

Battery	V / CC / RC	12 / 65Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 100A
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearQX 3.0 (A32)1994 to 1997

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	195/65x15: 205/65x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.5 / 2.2. 205/65: 2.0 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.0 to 3.0
Camber		-1° to 30' N/A
Castor		2° to 3°30' N/A
King pin inclination		13°35 to 15°

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-3.0 to +5.0 N/A
Camber		-1°45' to -15' N/A

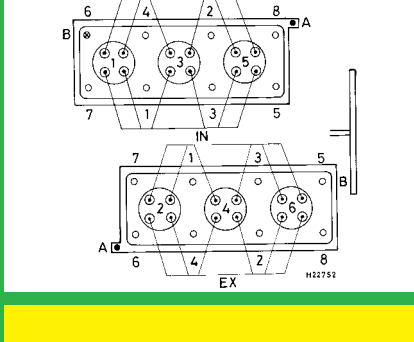
Torque wrench settingsQX 3.0 (A32)1994 to 1997

Cylinder head - stage 1	Nm	98, Loosen
- stage 2	Nm	34 to 44
Cylinder head - stage 3	Nm	+90°
- stage 4	Nm	+90°
Big-end bearings	Nm	20 +90°
Main bearings	Nm	32 to 38 +90°
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	83 to 93
Front hubs	Nm	235 to 314
Rear hubs	Nm	186 to 255
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

CapacitiesQX 3.0 (A32)1994 to 1997

Engine oil & filter	litres	4.1
Gearbox - 4-speed [5-speed]	litres	4.5 to 4.8. RS5F50V: 4.4
Automatic transmission - refill	litres	9.4
Final drive	litres	WT
Cooling system	litres	6.7
Fuel tank	litres	70

Notes and Illustrations



2988 cm³ 24V