

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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Engine and cooling system Primera 1.6i (P11) 1996 to 1997

Type		GA16DE DOHC 16V
Capacity (cm ³) / number of cylinders		1597 / 4
Compression ratio / pressure	bar	9.8 / ≥11.28
Oil pressure	bar	≥0.59 [≥4.22]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.21 to 0.49 H
Valve clearance - exhaust	mm	0.30 to 0.58 H
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	0.78 to 0.98

Fuel system Primera 1.6i (P11) 1996 to 1997

Idle speed - manual [auto]	rpm	700±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.2 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		ECCS MPI
Main jet / needle		—
Injection pressure	bar	2.45
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system Primera 1.6i (P11) 1996 to 1997

Type		—
Ignition coil		—
Primary resistance	ohms	2.0
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	10±2 BTDC @ 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/Champion
Type		BKR5E / RC9YCC
Electrode gap	mm	1.00 to 1.10

Electrical system Primera 1.6i (P11) 1996 to 1997

Battery	V / CC / RC	—
Alternator voltage / full load current / engine rpm		—
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear Primera 1.6i (P11) 1996 to 1997

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

Tyres		
Saloon	Size	175/705x14: 185/65x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.2 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+1.0±1.0
Camber		0±45' N/A
Castor		1°45'±45' N/A
King pin inclination		14°30'±45' N/A

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+1.0±4.0 N/A
Camber		-1°±45' N/A

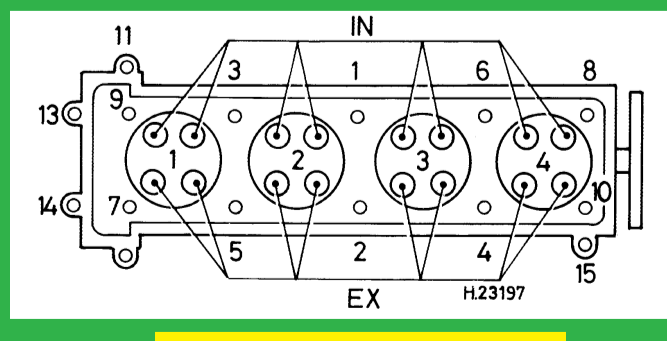
Torque wrench settings Primera 1.6i (P11) 1996 to 1997

Cylinder head - stage 1	Nm	29, then 59
- stage 2	Nm	Slacken, then 29
Cylinder head - stage 3	Nm	+50 to 55°
- stage 4	Nm	Bolts 11 to 15: 6.3 to 8.3
Big-end bearings	Nm	13 to 16 +35 to 40°
Main bearings	Nm	46 to 52
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

Capacities Primera 1.6i (P11) 1996 to 1997

Engine oil & filter	litres	3.3
Gearbox - 4-speed [5-speed]	litres	2.9
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	5.5
Fuel tank	litres	60

Notes and Illustrations



1597 cm³, 16V