

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 systemPrimera 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 systemPrimera 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
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	2.45
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemPrimera 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 systemPrimera 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 gearPrimera 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

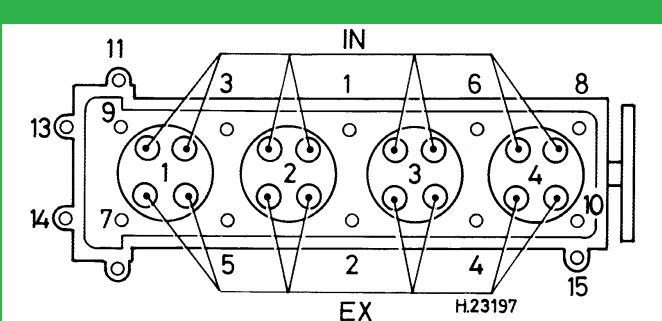
Torque wrench settingsPrimera 1.6i (P11)1996 to 1997

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

CapacitiesPrimera 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