

Engine & Cooling

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Automotive Technical
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Engine and cooling systemPrimera Estate 1.6 (W10)1994 to 1997

Type		GA16DE DOHC 16V 75kW
Capacity (cm³) / number of cylinders		1597 / 4
Compression ratio / pressure	bar	9.8 / ≥11.8
Oil pressure	bar	[3.4 to 4.4]
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	76.5
Radiator cap pressure	bar	0.78 to 0.98

Fuel systemPrimera Estate 1.6 (W10)1994 to 1997

Idle speed - manual [auto]	rpm	700±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 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	2.5
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemPrimera Estate 1.6 (W10)1994 to 1997

Type		Computerized
Ignition coil		—
Primary resistance	ohms	2.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	12.0
Distributor		—/—
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	10±2 BTDC @ 625
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		BKR5E
Electrode gap	mm	0.80 to 0.90

Electrical systemPrimera Estate 1.6 (W10)1994 to 1997

Battery	V / CC / RC	12 / 50 or 65Ah
Alternator voltage / full load current / engine rpm		13.6 to 14.6 / 70 / 3000
Starter motor current / voltage - cranking	A / V	50 to 90 / 11.0
- locked	A / V	—

Running gearPrimera Estate 1.6 (W10)1994 to 1997

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

Tyres		
Saloon	Size	—
Estate / Van	Size	195/65x14
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	2.0 / 2.0

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.0 to 3.0
Camber		-5' to +1°25' N/A
Castor		+1°15' to 2°45' N/A
King pin inclination		+13°15' to 14°45'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-1.0 to +3.0 N/A
Camber		-2°15' to -45' N/A

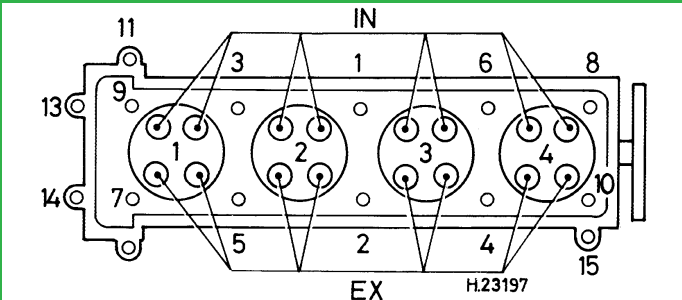
Torque wrench settingsPrimera Estate 1.6 (W10)1994 to 1997

Cylinder head - stage 1	Nm	29, 59, then slacken
- stage 2	Nm	29
Cylinder head - stage 3	Nm	+ 50 to 55°
- stage 4	Nm	Bolts 11 to 15: 6 to 8
Big-end bearings	Nm	15 + 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 Estate 1.6 (W10)1994 to 1997

Engine oil & filter	litres	3.5
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