

Engine & Cooling

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Automotive Technical
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Engine and cooling systemPrimera 2.0i (P11)1996 to 1997

Type		SR20De DOHC 16V
Capacity (cm ³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	10.0 / ≥10.79
Oil pressure	bar	≥0.78 [3.14 to 3.92]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
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 2.0i (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	2.35
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemPrimera 2.0i (P11)1996 to 1997

Type		—
Ignition coil		—
Primary resistance	ohms	0.5 to 1.0
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	15±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		BKR5EY / RC9MCC
Electrode gap	mm	1.00 to 1.10

Electrical systemPrimera 2.0i (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 2.0i (P11)1996 to 1997

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

Tyres		
Saloon	Size	185/65x14: 195/60x15
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 2.0i (P11)1996 to 1997

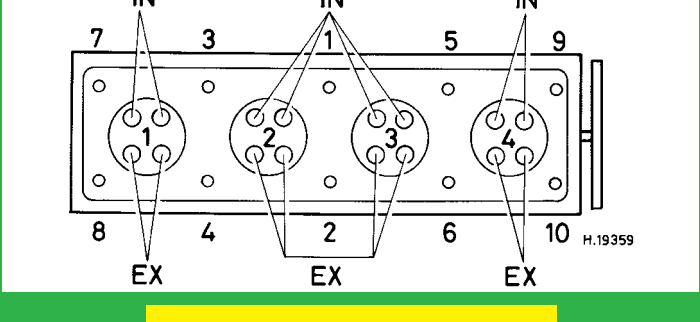
Cylinder head - stage 1	Nm	39, then 78
- stage 2	Nm	Slacken, then 39
Cylinder head - stage 3	Nm	+90 to 95°
- stage 4	Nm	+90 to 95°
Big-end bearings	Nm	14 to 16 +60 to 65°
Main bearings	Nm	7 to 13 +75 to 80 ¹
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	83 to 93
Front hubs	Nm	235 to 314
Rear hubs	Nm	186 to 255
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

CapacitiesPrimera 2.0i (P11)1996 to 1997

Engine oil & filter	litres	3.0
Gearbox - 4-speed [5-speed]	litres	3.6
Automatic transmission - refill	litres	7.0
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	60

Notes and Illustrations

¹Then slacken, then 32 to 38 +30 to 35°



1998 cm³, 16V