

Automotive Technical DATA BOOK

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MENU HELP

HELP

Engine and cooling system

Serena 2.0i (C23)	1993 to 1997
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Type		SR20DE DOHC 16V 93kW
Capacity (cm³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	9.5 / ≥10.8
Oil pressure	bar	0.8 [4.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
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 system

Serena 2.0i (C23) 1993 to 1997

Idle speed - manual [auto]	rpm	800±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	3.0
Octane rating	RON	95[U]

Ignition system

Serena 2.0i (C23)	1993 to 1997
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Type		Computerized
Ignition coil		Hanshin SMC-200, Mitsu. F-097
Primary resistance	ohms	1.0
Ballast resistor	ohms	—
Voltage - Trmnl 15(+) to earth	V	12.0
Distributor		Hitachi
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static V = Vacuum NV = No Vacuum	° Crankshaft @ rpm	15±2 BTDC @ 800±50 V
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	—
Maximum vacuum advance	° Crankshaft	Computer control
Spark plugs		NGK BKR5EY
Type		0.80 to 0.90
Electrode gap	mm	

Electrical system

Serena 2.0i (C23)	1993 to 1997
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Battery	V / CC / RC	12 / 65Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 63 / 3000
Starter motor current / voltage - cranking	A / V	78 / 11.5
- locked	A / V	-

Running gear

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Brakes -			
Front (min. friction material thickness)	mm	2.0	
Rear (min. friction material thickness)	mm	1.5	
Tyres			
Saloon	Size	195/70x14	
Estate / Van	Size	-	
Pressure - front / rear - Saloon	bar	2.0 / 2.6	
- Estate / Van	bar	-	
Front suspension / wheel alignment			
Toe-in (+) / Toe-out (-)	mm [°]	+3.1 to 5.1	
Camber		-30' to +1° N/A	
Castor		+2°5' to 3°35' N/A	
King pin inclination		+12°45' to 14°15'	
Rear suspension / wheel alignment			
Toe-in (+) / Toe-out (-)	mm [°]	-1.8 to +1.8	
Camber		-1°15' to 15°	

Torque wrench settings

Serena 2.0i (C23)	1993 to 1997
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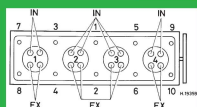
Cylinder head - stage 1	Nm	39
- stage 2	Nm	78, loosen completely
Cylinder head - stage 3	Nm	39±5 + 90 to 100°
- stage 4	Nm	+ 90 to 100°
Big-end bearings	Nm	15 + 60 to 65°
Main bearings	Nm	35 + 45 to 50°
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	83 to 93
Front hubs	Nm	206 to 284
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

Capacities

Serena 2.0i (C23)	1993 to 1997
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Engine oil & filter	litres	3.9
Gearbox - 4-speed [5-speed]	litres	2.1
Automatic transmission - refill	litres	-
Final drive	litres	1.5
Cooling system	litres	9.3
Fuel tank	litres	60

Notes and Illustrations

1998 cm²ECCS, 1998 cm³