

Engine & Cooling

Fuel

Ignition

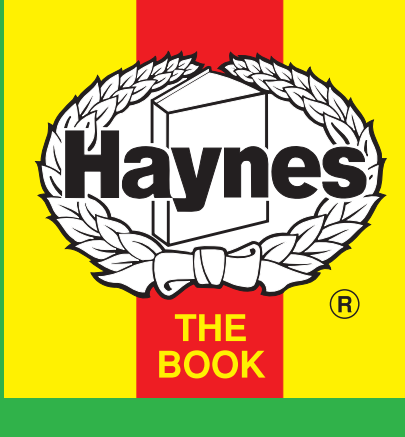
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling systemSerena 2.0i (C23)1993 to 1997

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.
Valve clearance - 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 systemSerena 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 systemSerena 2.0i (C23)1993 to 1997

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

Electrical systemSerena 2.0i (C23)1993 to 1997

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 gearSerena 2.0i (C23)1993 to 1997

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 settingsSerena 2.0i (C23)1993 to 1997

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

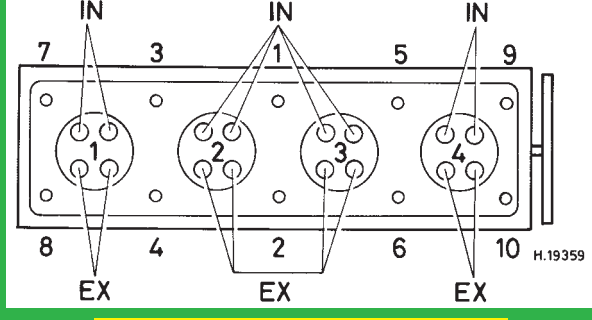
CapacitiesSerena 2.0i (C23)1993 to 1997

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

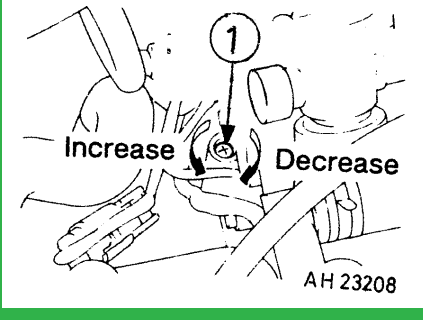
Notes and Illustrations



1: Idle speed 2: CO / Mixture



1998 cm³



ECCS, 1998 cm³