

Engine & Cooling

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Automotive Technical
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Engine and cooling system200SX (S14)1994 to 1997

Type		SR20DET DOHC 16V Turbo 148kW
Capacity (cm³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	8.5 / ≥8.8
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		TBE
Thermostat opening temperature	°C	76.5
Radiator cap pressure	bar	0.78 to 0.98

Fuel system200SX (S14)1994 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	2.45
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system200SX (S14)1994 to 1997

Type		DIS
Ignition coil		—
Primary resistance	ohms	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 @ 800
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		PFR6B-9
Electrode gap	mm	0.90

Electrical system200SX (S14)1994 to 1997

Battery	V / CC / RC	12 / 55Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 90A
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear200SX (S14)1994 to 1997

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

Tyres		
Saloon	Size	205/55x16
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.0 to 3.0
Camber		-1°35' to -0°5' N/A
Castor		5°55' to 7°25' N/A
King pin inclination		12°25' to 14°25'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0 to +5.0
Camber		-1°40' to -40' N/A

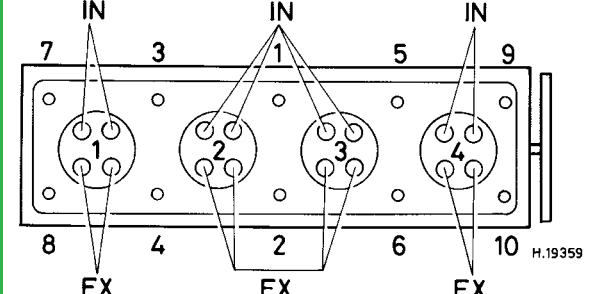
Torque wrench settings200SX (S14)1994 to 1997

Cylinder head - stage 1	Nm	39
- stage 2	Nm	78, Loosen
Cylinder head - stage 3	Nm	34 to 44
- stage 4	Nm	+90° +90°
Big-end bearings	Nm	14 to 16 +60 to 65°
Main bearings	Nm	WSM
Clutch cover	Nm	34 to 44
Flywheel [driveplate]	Nm	127 to 137
Front hubs	Nm	206 to 284
Rear hubs	Nm	206 to 275
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

Capacities200SX (S14)1994 to 1997

Engine oil & filter	litres	3.7
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	7.9
Final drive	litres	1.8
Cooling system	litres	6.2
Fuel tank	litres	65

Notes and Illustrations



1998 cm³, 16V