Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU HELP

Engine and cooling system

		200 SX & CAT (S13) 1989 to 1994
Type		CA18DET DOHC 16V Turbo
Capacity (cm³) / number of cylinders		1809 / 4
Compression ratio / pressure	bar	8.5 / ≥9.8
Oil pressure	bar	[3.5 to 4.1]
Oil temperature	ºC	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	ºC	88
Radiator cap pressure	bar	0.78 to 0.98

Fuel system

		200 SX & CAT (S13) 1989 to 1994
Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤2.0. CAT: 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
Main jet / needle		_
Injection pressure	bar	2.0 @ idle
Pump pressure	bar	2.5 @ idle
Octane rating	RON	95[U]

Ignition system

		200 SX & CAT (S13) 1989 to 1994
Type		Direct electronic
Ignition coil		_
Primary resistance	ohms	0.6 to 0.8
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	º (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	º Crankshaft @ rpm	15±2 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	Computer control
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	º Crankshaft	_
Spark plugs		NGK/Champion
Type		BCPR6ES-11 / RC7YC4²
Electrode gap	mm	1.00 to 1.10

Electrical system

		200 SX & CAT (S13) 1989 to 1994
Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 80 / 2500
Starter motor current / voltage - cranking	A / V	50 to 90 / 11.0 (no load)
- locked	A / V	_

Running gear

		200 SX & CAT (S13) 1989 to 1994
Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0
Tyres		
Saloon	Size	195/60x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.3
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	0 to +2.0
Camber		-1°25' to +5' N/A
Castor		+5°55' to 7°25' N/A
King pin inclination		+12°25' to 13°55' N/A
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	0 to +5.0
Camber		-1°40' to -40'

Torque wrench settings

		200 SX & CAT (S13) 1989 to 1994
Cylinder head - stage 1	Nm	29
- stage 2	Nm	103, then loosen bolts
Cylinder head - stage 3	Nm	29
- stage 4	Nm	+ 85 to 90°
Big-end bearings	Nm	41 to 44
Main bearings	Nm	44 to 54
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	98 to 108
Front hubs	Nm	147 to 216
Rear hubs	Nm	206 to 275
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

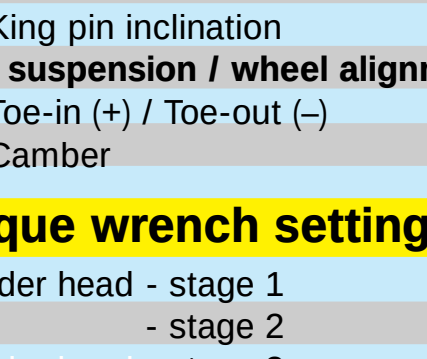
Capacities

		200 SX & CAT (S13) 1989 to 1994
Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	7.9
Final drive	litres	1.8
Cooling system	litres	7.0
Fuel tank	litres	60

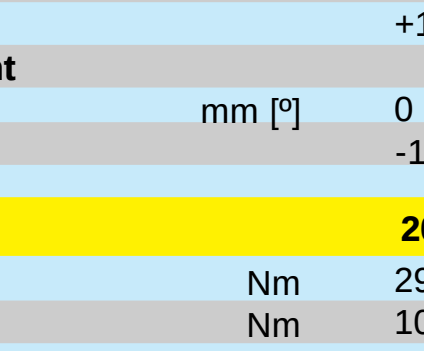
Notes and Illustrations

²CAT: PFR6A-11

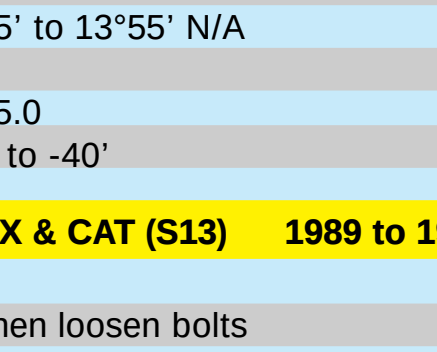
1: Idle speed 2: CO / Mixture



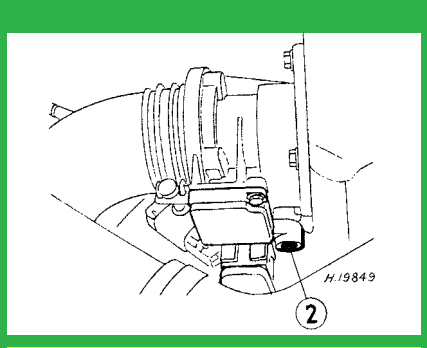
1809 cm³, DOHC



1809 cm³, DOHC



ECCS, 200 SX



ECCS, 200 SX