

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling systemNSX1991 to 1997

Type		C30A DOHC 24V V-TEC 201kW
Capacity (cm ³) / number of cylinders		2977 / 6
Compression ratio / pressure	bar	10.2 / ≥10.0
Oil pressure	bar	0.7 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.15 to 0.19
Valve clearance - exhaust	mm	0.17 to 0.21
Firing order		1-4-2-5-3-6
No 1 cylinder position		PER
Thermostat opening temperature	°C	78±2
Radiator cap pressure	bar	0.93 to 1.23

Fuel systemNSX1991 to 1997

Idle speed - manual [auto]	rpm	800±50 [750±50]
Fast idle speed - manual [auto]	rpm	1500±400
CO @ idle speed [3000 rpm] - see page VI	%	≤0.1 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		Honda
Type / ref		PGM-Fi MPI
Main jet / needle		—
Injection pressure	bar	2.7 to 3.2
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemNSX1991 to 1997

Type		Direct electronic
Ignition coil		—
Primary resistance	ohms	0.9 to 1.1
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 [750]
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		PFR6G-11
Electrode gap	mm	1.00 to 1.10

Electrical systemNSX1991 to 1997

Battery	V / CC / RC	12 / 65Ah
Alternator voltage / full load current / engine rpm		13.5 / 110 / 2000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearNSX1991 to 1997

Brakes -		
Front (min. friction material thickness)	mm	1.6
Rear (min. friction material thickness)	mm	1.6

Tyres		
Saloon	Size	205/50x15:225/50x16:245/40x17
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	Refer to vehicle
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-3.5±1.0
Camber		-20'±30'
Castor		+8°±45'
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+6.0±1.0
Camber		-1°30'±30'

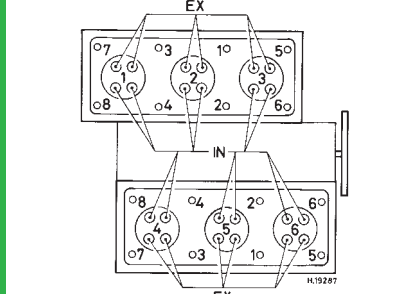
Torque wrench settingsNSX1991 to 1997

Cylinder head - stage 1	Nm	40
- stage 2	Nm	78
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	20 + 95°
Main bearings	Nm	M10: 50. M11: 66
Clutch cover	Nm	26
Flywheel [driveplate]	Nm	105 [75]
Front hubs	Nm	335
Rear hubs	Nm	335
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	18

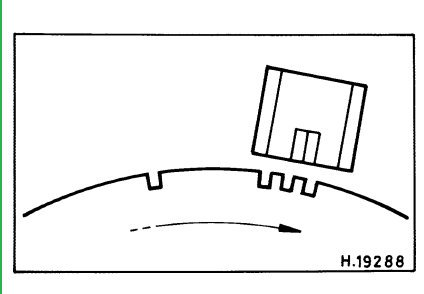
CapacitiesNSX1991 to 1997

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	2.7
Automatic transmission - refill	litres	2.9
Final drive	litres	WT
Cooling system	litres	16.0 [AT: 16.5]
Fuel tank	litres	70

Notes and Illustrations



2977 cm³



2977 cm³