

Engine & Cooling

Fuel

Ignition

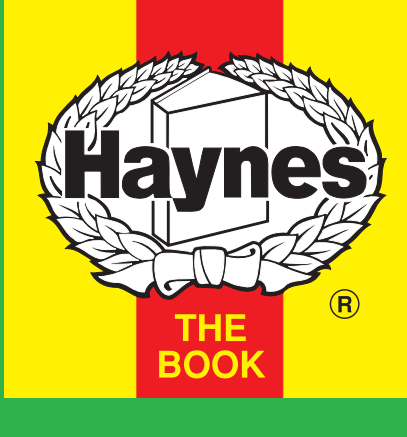
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system100NX 1.6 CAT (B13)1991 to 1996

Type		GA16DS/E DOHC 16V 70kW US83
Capacity (cm³) / number of cylinders		1597 / 4
Compression ratio / pressure	bar	9.8 / ≥11.3
Oil pressure	bar	[3.4 to 4.4]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.32 to 0.40 H
Valve clearance - exhaust	mm	0.37 to 0.45 H
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 system100NX 1.6 CAT (B13)1991 to 1996

Idle speed - manual [auto]	rpm	750±50 [850±50] ⁵
Fast idle speed - manual [auto]	rpm	2100±200 [2400±200]
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
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		NikkiNissan
Type / ref		21L304-13. AT: -14 ⁴
Main jet / needle		92, 135
Injection pressure	bar	2.9
Pump pressure	bar	0.21 to 0.34
Octane rating	RON	95[U]

Ignition system100NX 1.6 CAT (B13)1991 to 1996

Type		Electronic
Ignition coil		Hanshin STC-143
Primary resistance	ohms	1.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	12.0
Distributor		Mitsubishi/Hitachi
Points gap (air gap)	mm	[0.30 to 0.50]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	2 BTDC @ idle ⁶
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	10±2 BTDC @ idle
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	-2 to +2 @ 1200
	° Crankshaft @ rpm	16 to 19 @ 2400 to 2800
	° Crankshaft @ rpm	23 to 27 @ 4400
Vacuum range check	mbar	134 to 533 ¹
Maximum vacuum advance	° Crankshaft	18 to 22. AT: 8 to 12
Spark plugs		NGK
Type		BKR6E
Electrode gap	mm	0.80 to 0.90

Electrical system100NX 1.6 CAT (B13)1991 to 1996

Battery	V / CC / RC	12 / 60, 65Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 65, 70 / 2500
Starter motor current / voltage - cranking	A / V	50 to 90 / 11.0 to 11.5
- locked	A / V	—

Running gear100NX 1.6 CAT (B13)1991 to 1996

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

Tyres		
Saloon	Size	175/65x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	—

Front suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	0 to +4.0
Camber		-1° to +15'
Castor		+1°5' to 2°35' N/A
King pin inclination		+13°15' to 14°45' N/A

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	-1.0 to +3.0
Camber		-1°55' to -25'

Torque wrench settings100NX 1.6 CAT (B13)1991 to 1996

Cylinder head - stage 1	Nm	29
- stage 2	Nm	59
Cylinder head - stage 3	Nm	Loosen, then 29
- stage 4	Nm	+ 50 to 55 ²
Big-end bearings	Nm	15 + 35 to 40°
Main bearings	Nm	46 to 52
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	83 to 93 ³
Front hubs	Nm	196 to 275
Rear hubs	Nm	186 to 255
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

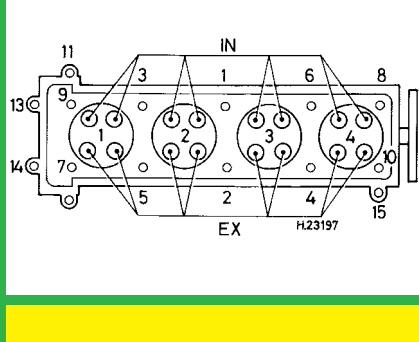
Capacities100NX 1.6 CAT (B13)1991 to 1996

Engine oil & filter	litres	3.2
Gearbox - 4-speed [5-speed]	litres	2.9
Automatic transmission - refill	litres	7.0
Final drive	litres	WT
Cooling system	litres	5.5. [AT: 5.9]
Fuel tank	litres	50

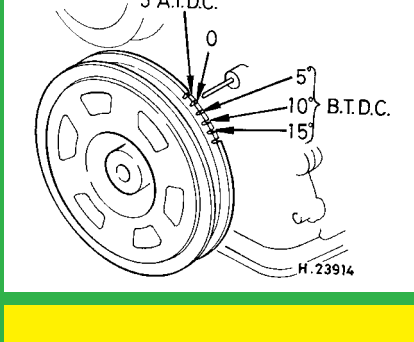
Notes and Illustrations

- ¹AT: 113 to 333
- ²Bolts 11 to 15: 6.3 to 8.3
- ³[93 to 103]
- ⁴GA16DE: ECCS
- ⁵GA16DE; 750±50 [800±50]
- ⁶GA16DS only

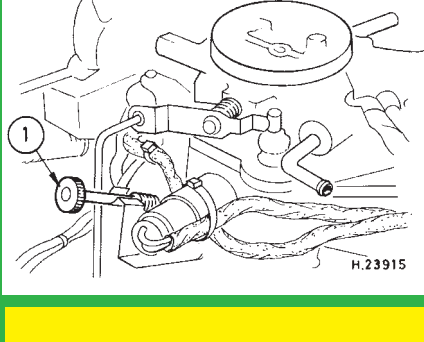
1: Idle speed 2: CO / Mixture



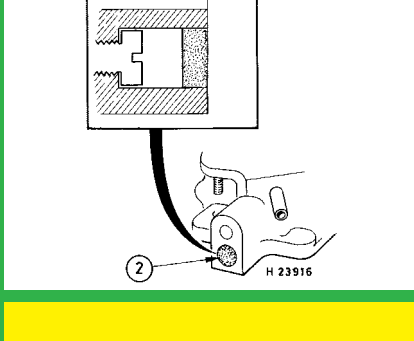
1597 cm³, 16V



1597 cm³, 16V



21L304-13/14



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