

Engine & Cooling

Fuel

Ignition

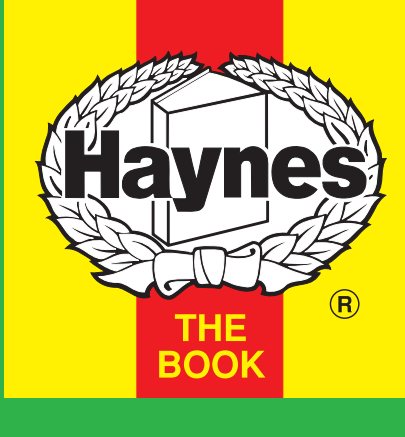
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling systemPrimera 1.6 CAT (P10)1990 to 1994

Type		GA16DS DOHC 16V 67kW
Capacity (cm³) / number of cylinders		1597 / 4
Compression ratio / pressure	bar	9.8 / ≥11.8
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		TCE
Thermostat opening temperature	°C	76.5
Radiator cap pressure	bar	0.78 to 0.98

Fuel systemPrimera 1.6 CAT (P10)1990 to 1994

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	2300±200
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Nikki
Type / ref		2V: 21L304-06
Main jet / needle		092, 135
Injection pressure	bar	—
Pump pressure	bar	0.21 to 0.34
Octane rating	RON	95[U]

Ignition systemPrimera 1.6 CAT (P10)1990 to 1994

Type		Computerized
Ignition coil		Hanshin SMC-400
Primary resistance	ohms	1.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	12.0
Distributor		Lucas/Hitachi
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	2 BTDC @ 750±50
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	10±2 BTDC @ 750±50
	° 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/Champion
Type		BKR6EY / RC9YCC
Electrode gap	mm	0.80 to 0.90

Electrical systemPrimera 1.6 CAT (P10)1990 to 1994

Battery	V / CC / RC	12 / 59 or 65Ah
Alternator voltage / full load current / engine rpm		13.6 to 14.6 / 67 / 3000
Starter motor current / voltage - cranking	A / V	75 to 78 / 11.5
- locked	A / V	—

Running gearPrimera 1.6 CAT (P10)1990 to 1994

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	165x13: 175/70x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+0.2 to 4.2
Camber		-45' to +1°
Castor		+1° to 2°30'
King pin inclination		+13°45' to 15°15'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-2.0 to +2.0
Camber		-1°45' to -15'

Torque wrench settingsPrimera 1.6 CAT (P10)1990 to 1994

Cylinder head - stage 1	Nm	29
- stage 2	Nm	59, loosen completely
Cylinder head - stage 3	Nm	29
- stage 4	Nm	+ 50 to 55 ^{o1}
Big-end bearings	Nm	14 to 16²
Main bearings	Nm	46 to 52
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	83 to 93
Front hubs	Nm	235 to 314
Rear hubs	Nm	186 to 255
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

CapacitiesPrimera 1.6 CAT (P10)1990 to 1994

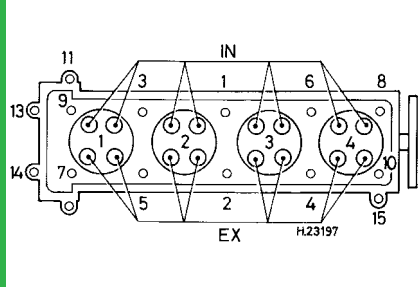
Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	2.9
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	5.5
Fuel tank	litres	60

Notes and Illustrations

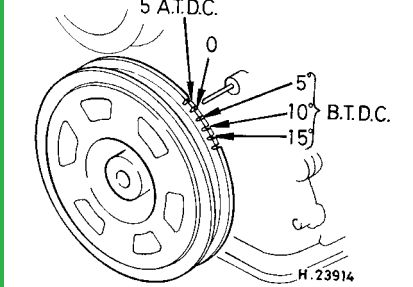
¹Tighten bolts 11 to 15 to 6.3 to 8.3

²+ 35 to 40°

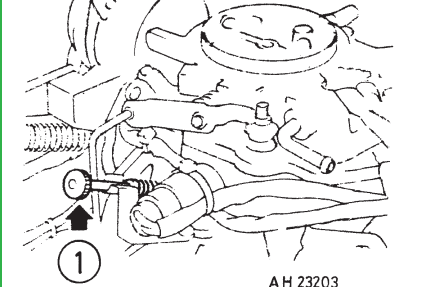
1: Idle speed 2: CO / Mixture



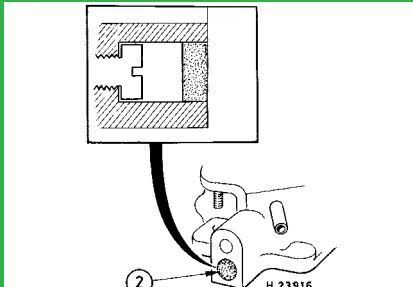
1597 cm³



1597 cm³



Nikki 21L304-06



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