

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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Engine and cooling system Primera 1.6 (P10) 1990 to 1992

Type	GA16DS DOHC 16V 71kW	
Capacity (cm ³) / 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 system Primera 1.6 (P10) 1990 to 1992

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	2300±200
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	Nikki	
Type / ref	2V: 21L304-05	
Main jet / needle	100, 135	
Injection pressure	bar	—
Pump pressure	bar	0.21 to 0.34
Octane rating	RON	95[E 95 RON]

Ignition system Primera 1.6 (P10) 1990 to 1992

Type	Electronic	
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	[0.30 to 0.45]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation	Anticlockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	2±2 BTDC @ 750±50
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	10±5 BTDC @ 750±50
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0±2 @ 1200
	° Crankshaft @ rpm	17±2 @ 2400
	° Crankshaft @ rpm	25±2 @ 4400
Vacuum range check	mbar	133 to 533
Maximum vacuum advance	° Crankshaft	20±2
Spark plugs	NGK/Champion	
Type	BKR6EY / RC9YCC	
Electrode gap	mm	0.80 to 0.90

Electrical system Primera 1.6 (P10) 1990 to 1992

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 gear Primera 1.6 (P10) 1990 to 1992

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.5
Tyres		
Saloon	Size	165x13
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 settings Primera 1.6 (P10) 1990 to 1992

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 16 ²
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

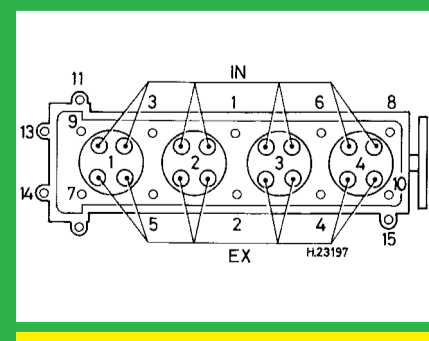
Capacities Primera 1.6 (P10) 1990 to 1992

Engine oil & filter	litres	3.2
Gearbox - 4-speed [5-speed]	litres	2.9
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.4
Fuel tank	litres	60

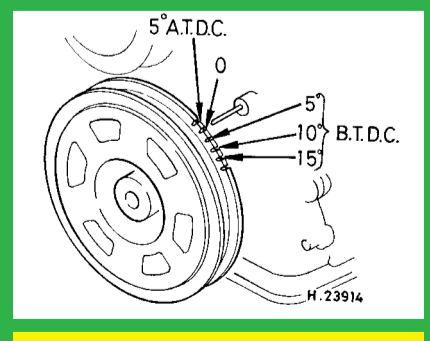
Notes and Illustrations

¹Tighten bolts 11 to 15 to 6.3 to 8.3
²+ 35 to 40°

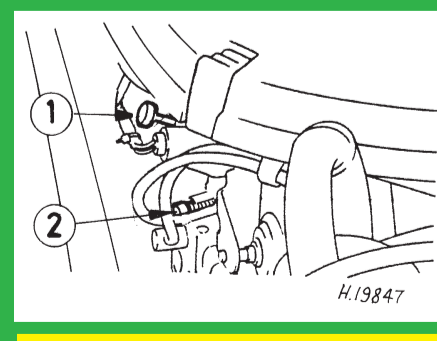
1: Idle speed 2: CO / Mixture



1597 cm³



1597 cm³



Nikki 21L304-05