

Engine & Cooling

Fuel

Ignition

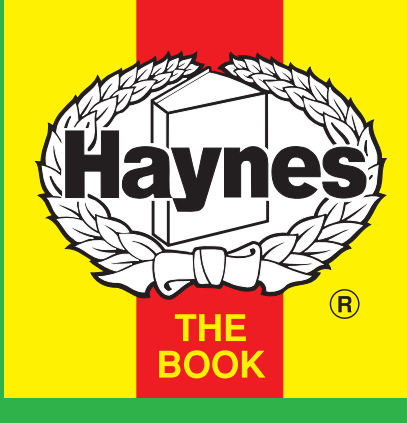
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system			100 & Avant, 2.0i	1985 to 1988
Type			KP (85kW) SOHC	
Capacity (cm³) / number of cylinders			1994 / 5	
Compression ratio / pressure		bar	10.0 / ≥9.0	
Oil pressure		bar	[2.0]	
Oil temperature		°C	80	
Valve clearance - inlet		mm	0.20 to 0.30 ¹	
Valve clearance - exhaust		mm	0.40 to 0.50 ¹	
Firing order			1-2-4-5-3	
No 1 cylinder position			TBE	
Thermostat opening temperature		°C	87	
Radiator cap pressure		bar	1.2 to 1.5	
Fuel system			100 & Avant, 2.0i	1985 to 1988
Idle speed - manual [auto]		rpm	800±50	
Fast idle speed - manual [auto]		rpm	—	
CO @ idle speed [3000 rpm] - see page VI		%	1.0±0.5	
HC @ idle speed [3000 rpm] - see page VI		ppm	≤1200	
CO2 @ idle speed [3000 rpm] - see page VI		%	—	
O2 @ idle speed [3000 rpm] - see page VI		%	—	
Carburettor / fuel injection			Bosch	
Type / ref			K-Jetronic	
Main jet / needle			—	
Injection pressure		bar	3.0 to 4.1 ²	
Pump pressure		bar	4.7 to 5.4 ³	
Octane rating		RON	98[E 98 RON] ⁴	
Ignition system			100 & Avant, 2.0i	1985 to 1988
Type			TCI-H	
Ignition coil			Bosch	
Primary resistance		ohms	0.52 to 0.76	
Ballast resistor		ohms	—	
Voltage - Tmnl 15(+) to earth		V	—	
Distributor			Bosch	
Points gap (air gap)		mm	—	
Dwell angle		° (%)	N/A	
Condenser capacity		µF	—	
Rotation			Clockwise	
Ignition timing - basic [static		° Crankshaft @ rpm	18±1 BTDC @ 800±50 ⁴	
V = Vacuum NV = No Vacuum			V	
Total ignition advance		° Crankshaft @ rpm	—	
		° Crankshaft @ rpm	—	
		° Crankshaft @ rpm	—	
Centrifugal check.		° Crankshaft @ rpm	5 to 9 @ 1500	
		° Crankshaft @ rpm	16 to 21 @ 2500	
		° Crankshaft @ rpm	22 to 28 @ 6500	
Vacuum range check		mbar	120 to 260	
Maximum vacuum advance		° Crankshaft	11 to 13	
Spark plugs			Bosch/Champion	
Type			W7DTC / N7YCX	
Electrode gap		mm	0.70 to 0.90	
Electrical system			100 & Avant, 2.0i	1985 to 1988
Battery		V / CC / RC	12 / 45Ah	
Alternator voltage / full load current / engine rpm			12.5 to 14.5 / _ / 3000	
Starter motor current / voltage - cranking		A / V	—	
- locked		A / V	—	
Running gear			100 & Avant, 2.0i	1985 to 1988
Brakes -				
Front (min. friction material thickness)		mm	7.0 with backing	
Rear (min. friction material thickness)		mm	2.5	
Tyres				
Saloon		Size	185/70x14	
Estate / Van		Size	185/70x14	
Pressure - front / rear - Saloon		bar	2.1 / 1.9	
- Estate / Van		bar	2.1 / 1.9	
Front suspension / wheel alignment				
Toe-in (+) / Toe-out (–)		mm [°]	[0+5' -10']	
Camber			-30'±30'	
Castor			+50'±40'	
King pin inclination			—	
Rear suspension / wheel alignment				
Toe-in (+) / Toe-out (–)		mm [°]	[+10'±5'] PW	
Camber			-40'±30'. 01.88 ►: -50'±30'	
Torque wrench settings			100 & Avant, 2.0i	1985 to 1988
Cylinder head - stage 1		Nm	40 N	
- stage 2		Nm	60	
Cylinder head - stage 3		Nm	+ 90°	
- stage 4		Nm	+ 90°	
Big-end bearings		Nm	50	
Main bearings		Nm	65	
Clutch cover		Nm	25	
Flywheel [driveplate]		Nm	Without shoulder: 75 ⁵	
Front hubs		Nm	280	
Rear hubs		Nm	WSM	
Wheel nuts / bolts		Nm	110	
Spark plugs		Nm	20	
Capacities			100 & Avant, 2.0i	1985 to 1988
Engine oil & filter		litres	4.5	
Gearbox - 4-speed [5-speed]		litres	2.6	
Automatic transmission - refill		litres	3.0	
Final drive		litres	AT: 1.0	
Cooling system		litres	8.0	
Fuel tank		litres	80	

Notes and Illustrations

¹8.85 ►: 0: Hydraulic adjusters

²7.86 ►: 4.3 to 4.6

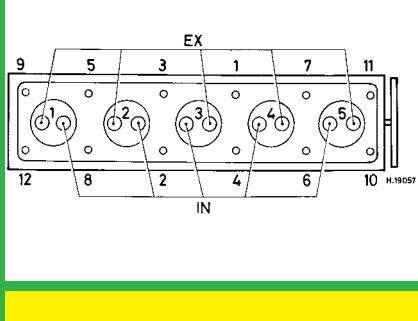
³7.86 ►: 5.6 to 6.0

⁴[E 95 RON], 10-2 BTDC @ 800±50

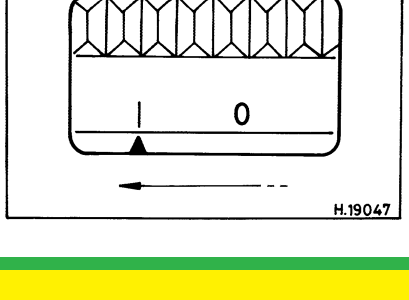
⁵With shoulder: 30 + 90°

1: Idle speed

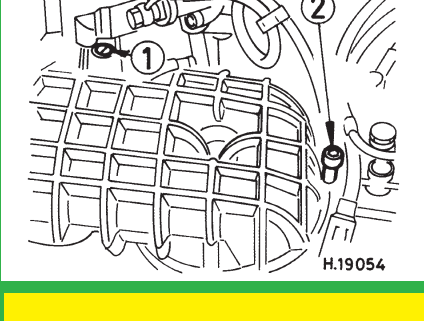
2: CO / Mixture



1994 cm³, 10V



1994 cm³, 10V



K-Jetronic, KP