

Engine & Cooling

Fuel

Ignition

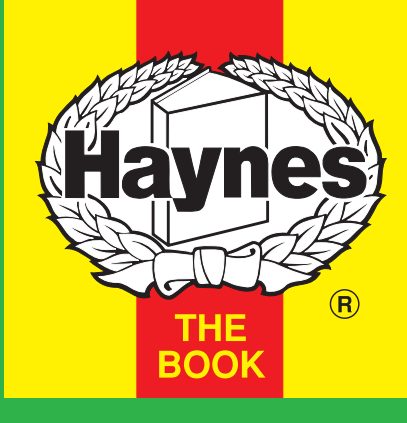
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system

100 & Avant, 2.0i & CAT

1988 to 1991

Type		RT 85kW CAT: 83kW SOHC
Capacity (cm ³) / 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: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
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 & CAT

1988 to 1991

Idle speed - manual [auto]	rpm	750 to 850
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.2. CAT: ≤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. CAT: KE-Jetronic
Main jet / needle		—
Injection pressure	bar	4.3 to 4.6
Pump pressure	bar	5.4 to 6.2 ¹
Octane rating	RON	98[E 98 RON] ²

Ignition system

100 & Avant, 2.0i & CAT

1988 to 1991

Type		TSZ ³
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 @ 750 to 850
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1100 to 1300 ⁴
	° Crankshaft @ rpm	11 to 15 @ 2600 to 3800 ⁴
	° Crankshaft @ rpm	18 to 22 @ 5600 ⁴
Vacuum range check	mbar	120 to 420 ⁴
Maximum vacuum advance	° Crankshaft	12 to 14 ⁴
Spark plugs		NGK
Type		BUR6ET
Electrode gap	mm	0.80 to 0.90

Electrical system

100 & Avant, 2.0i & CAT

1988 to 1991

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 & CAT

1988 to 1991

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		–50'±30'

Torque wrench settings

100 & Avant, 2.0i & CAT

1988 to 1991

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	30 + 90°
Main bearings	Nm	65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	Without shoulder: 75 ⁵
Front hubs	Nm	200 + 90°
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	20

Capacities

100 & Avant, 2.0i & CAT

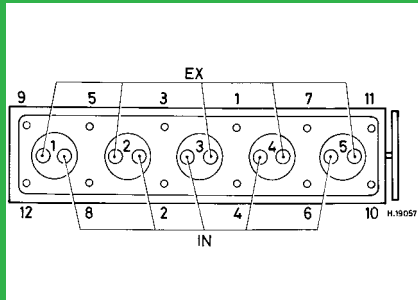
1988 to 1991

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

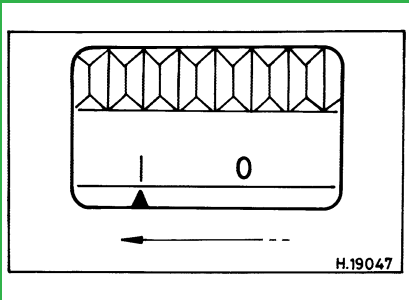
Notes and Illustrations

- ¹CAT: 6.1 to 6.5
- ²CAT: 95 [U]
- ³CAT: FEI
- ⁴CAT: computer control
- ⁵With shoulder: 30 + 90°

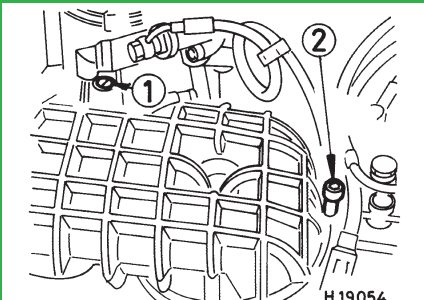
1: Idle speed 2: CO / Mixture



1994 cm³, 10V



1994 cm³, 10V



K/KE-Jetronic, RT