

Engine & Cooling

Fuel

Ignition

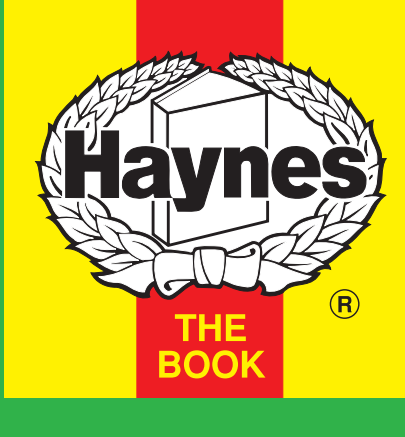
Electrical

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Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

100, 1.8i CAT

1988 to 1991

Type		4B (66kW) SOHC
Capacity (cm ³) / number of cylinders		1781 / 4
Compression ratio / pressure	bar	9.0 / ≥7.0
Oil pressure	bar	[2.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	85
Radiator cap pressure	bar	1.2 to 1.5

Fuel system

100, 1.8i CAT

1988 to 1991

Idle speed - manual [auto]	rpm	750 to 950 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
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		Mono-Jetronic
Main jet / needle		—
Injection pressure	bar	0.8 to 1.2
Pump pressure	bar	—
Octane rating	RON	91[U]

Ignition system

100, 1.8i CAT

1988 to 1991

Type		TSZ
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	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	6±1 BTDC @ 750 to 950
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 950 to 1200
	° Crankshaft @ rpm	14 to 18 @ 2600
	° Crankshaft @ rpm	26 to 30 @ 6000
Vacuum range check	mbar	100 to 260
Maximum vacuum advance	° Crankshaft	10 to 14
Spark plugs		NGK
Type		BUR6ET
Electrode gap	mm	0.70 to 0.90

Electrical system

100, 1.8i 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, 1.8i 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	1.9 / 1.9
- Estate / Van	bar	1.9 / 1.9

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[0+5' -10'] 4x4: [+5'+5' -10']
Camber		-30'±30'
Castor		+50'±40'
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+10'±5'] 4x4: [+10'±10']
Camber		-40'±30'. 4x4: -15'±15'

Torque wrench settings

100, 1.8i 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	60 + 90° N
Front hubs	Nm	280 ¹
Rear hubs	Nm	WSM ²
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities

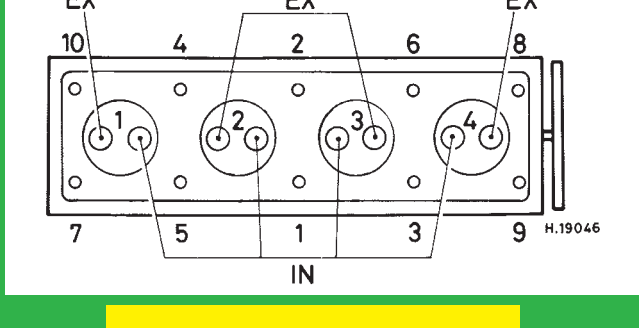
100, 1.8i CAT

1988 to 1991

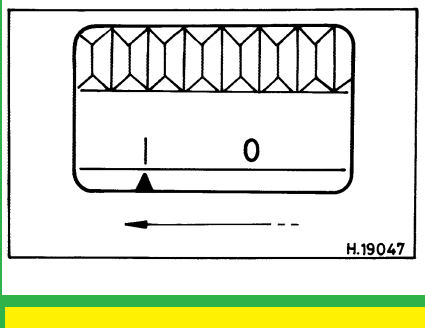
Engine oil & filter	litres	3.0
Gearbox - 4-speed [5-speed]	litres	2.0. 4x4: 2.85
Automatic transmission - refill	litres	3.0
Final drive	litres	AT: 0.75 ³
Cooling system	litres	7.0
Fuel tank	litres	80

Notes and Illustrations

- ¹4x4: 360
- ²4x4: 360
- ³4x4 rear: 1.6



1781 cm³, 8V



1781 cm³, 8V