

Engine & Cooling

Fuel

Ignition

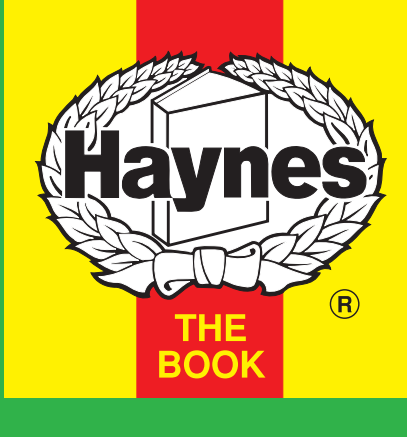
Electrical

Running gear

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Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

100 & Avant, 1.8

1983 to 1989

Type	DS (66kW) SOHC	
Capacity (cm³) / number of cylinders	1781 / 4	
Compression ratio / pressure	bar	10.0 / ≥7.5
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	1-3-4-2	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	85
Radiator cap pressure	bar	1.2 to 1.5

Fuel system

100 & Avant, 1.8

1983 to 1989

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	3000±200
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	Solex/Pierburg	
Type / ref	2E2	
Main jet / needle	105, 120	
Injection pressure	bar	—
Pump pressure	bar	0.20 to 0.25
Octane rating	RON	98[E 98 RON] ²

Ignition system

100 & Avant, 1.8

1983 to 1989

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 @ 750±50
V = Vacuum NV = No Vacuum	V	
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 900 to 1100
	° Crankshaft @ rpm	14 to 19 @ 2400
	° Crankshaft @ rpm	22 to 26 @ 4700
Vacuum range check	mbar	60 to 320
Maximum vacuum advance	° Crankshaft	13 to 15
Spark plugs	Bosch/Champion	
Type	W7DTC / N7YCX	
Electrode gap	mm	0.70 to 0.90

Electrical system

100 & Avant, 1.8

1983 to 1989

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, 1.8

1983 to 1989

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']
Camber	-30'±30'	
Castor	-15'±40'. PAS: +50'±40'	
King pin inclination	—	

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

Torque wrench settings

100 & Avant, 1.8

1983 to 1989

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
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

Capacities

100 & Avant, 1.8

1983 to 1989

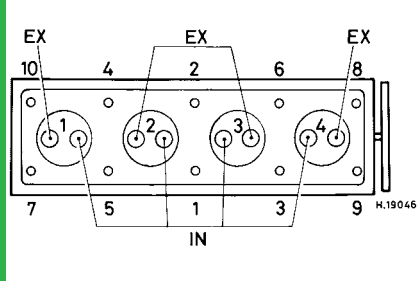
Engine oil & filter	litres	3.0
Gearbox - 4-speed [5-speed]	litres	1.7 [2.0]
Automatic transmission - refill	litres	3.0
Final drive	litres	AT: 0.75
Cooling system	litres	7.0
Fuel tank	litres	80

Notes and Illustrations

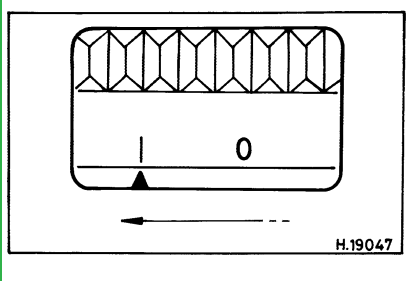
¹8.85 ▶: 0: Hydraulic adjusters

²[E 95 RON] [RA]

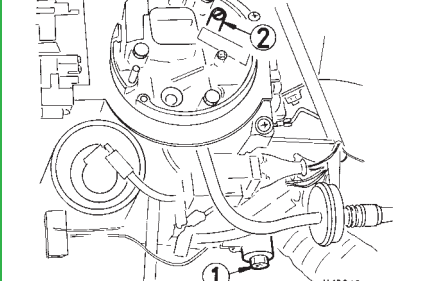
1: Idle speed 2: CO / Mixture



1781 cm³, 8V



1781 cm³, 8V



Solex / Pierburg 2E2