

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

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

### Engine and cooling system 100 & Avant, 1.8 1983 to 1989

Type		DS (66kW) SOHC
Capacity (cm <sup>3</sup> ) / 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 <sup>1</sup>
Valve clearance - exhaust	mm	0.40 to 0.50 <sup>1</sup>
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
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	-
O <sub>2</sub> @ 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] <sup>2</sup>

### 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

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	2.5

<b>Tyres</b>		
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

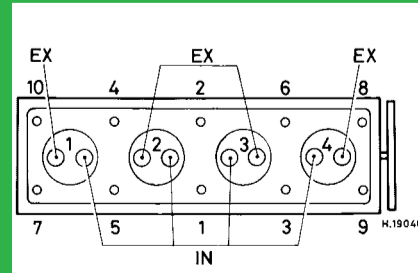
Engine oil & filter	litres	3.0
Gearbox - 4-speed [5-speed]	litres	1.7 [2.0]
Automatic transmission - refill	litres	3.0
Final drive	litres	AT: 0.75
Cooling system	litres	7.0
Fuel tank	litres	80

### Notes and Illustrations

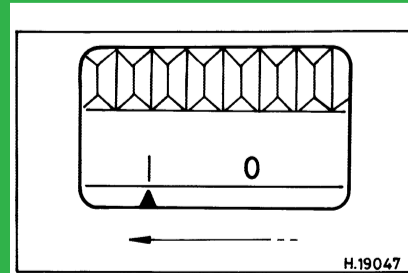
<sup>1</sup>8.85 ▶: 0: Hydraulic adjusters

<sup>2</sup>[E 95 RON] [RA]

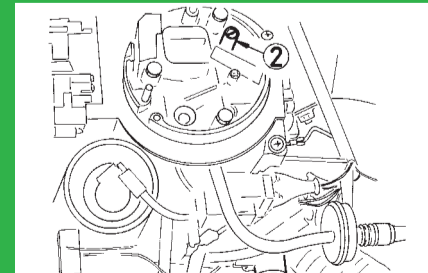
1: Idle speed 2: CO / Mixture



1781 cm<sup>3</sup>, 8V



1781 cm<sup>3</sup>, 8V



Solex / Pierburg 2E2