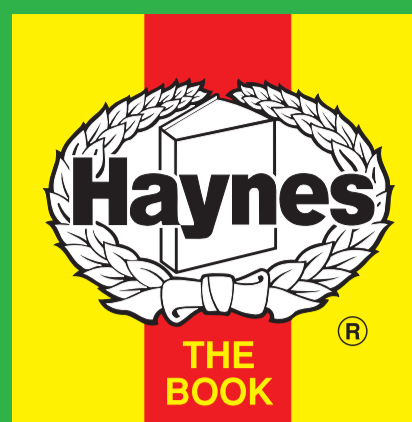


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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# Automotive Technical DATA BOOK

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.

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HELP

### Engine and cooling system 80, Coupé & 4x4, 1.8i 1983 to 1988

Type		DZ (82kW) 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 80, Coupé & 4x4, 1.8i 1983 to 1988

Idle speed - manual [auto]	rpm	950±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.5 to 1.5
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		Bosch
Type / ref		K-Jetronic
Main jet / needle		—
Injection pressure	bar	4.7 to 5.4
Pump pressure	bar	—
Octane rating	RON	98[E 98 RON] <sup>2</sup>

### Ignition system 80, Coupé & 4x4, 1.8i 1983 to 1988

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	° (%)	N/A
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	6±1 BTDC @ 950±50 <sup>2</sup>
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	4 to 8 BTDC @ 950±50
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 1050 to 1450
	° Crankshaft @ rpm	9 to 14 @ 2200
	° Crankshaft @ rpm	17 to 21 @ 4000
Vacuum range check	mbar	60 to 260 <sup>3</sup>
Maximum vacuum advance	° Crankshaft	13 to 17
Spark plugs		Bosch/Champion
Type		W7DTC / N7YCX
Electrode gap	mm	0.70 to 0.90

### Electrical system 80, Coupé & 4x4, 1.8i 1983 to 1988

Battery	V / CC / RC	12 / 45Ah
Alternator voltage / full load current / engine rpm		14.0 / _ / 2000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

### Running gear 80, Coupé & 4x4, 1.8i 1983 to 1988

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

<b>Tyres</b>		
Saloon	Size	175/70x13: 185/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.7 / 1.7 <sup>4</sup>
- Estate / Van	bar	—

<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	[+10'±10']
Camber		-40'±30'
Castor		+30'±30'. PAS: +1°20'±30' <sup>5</sup>
King pin inclination		—

<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	[+20'±20']
Camber		-1°±20'

### Torque wrench settings 80, Coupé & 4x4, 1.8i 1983 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	45
Main bearings	Nm	65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60 + 90°
Front hubs	Nm	230
Rear hubs	Nm	WSM <sup>6</sup>
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	20

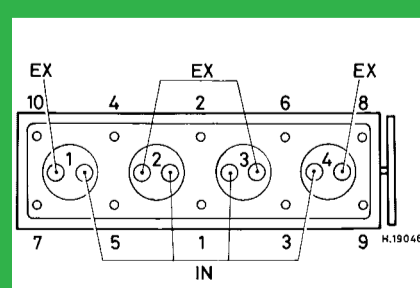
### Capacities 80, Coupé & 4x4, 1.8i 1983 to 1988

Engine oil & filter	litres	Steel sump: 3.0 <sup>7</sup>
Gearbox - 4-speed [5-speed]	litres	1.7 [2.0] <sup>8</sup>
Automatic transmission - refill	litres	3.0
Final drive	litres	AT: 0.75 <sup>9</sup>
Cooling system	litres	6.2. 4x4: 7.0
Fuel tank	litres	68. 4x4: 70

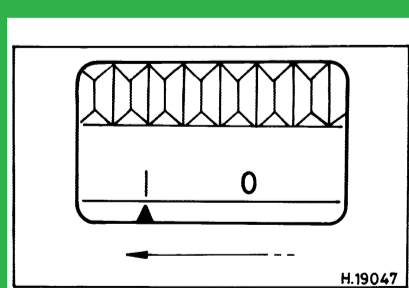
### Notes and Illustrations

- <sup>1</sup>8.85 ▶: 0: Hydraulic adjusters
- <sup>2</sup>[E 95 RON]: 0±1 BTDC @ 950±50
- <sup>3</sup>8.84 ▶: 60 to 255
- <sup>4</sup>185/60x14: 1.6 / 1.6
- <sup>5</sup>Coupé with PAS: +1°25'±30'
- <sup>6</sup>4x4: 280 with locking compound
- <sup>7</sup>Aluminium sump: 3.5
- <sup>8</sup>4x4: 3.2. 8.84 ▶: 2.2. 4x4 7.86 ▶: 2.85
- <sup>9</sup>4x4 rear: 2.2

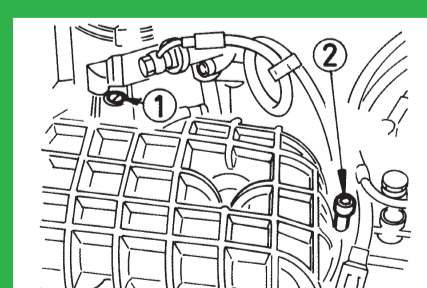
1: Idle speed 2: CO / Mixture



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



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



K-Jetronic