

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

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### Engine and cooling system 80, 90, Coupé & Cabrio 2.3 1987 to 1995

Type		NG 98kW SOHC
Capacity (cm <sup>3</sup> ) / number of cylinders		2309 / 5
Compression ratio / pressure	bar	10.0 / ≥8.0
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 80, 90, Coupé & Cabrio 2.3 1987 to 1995

Idle speed - manual [auto]	rpm	720 to 860 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
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		KE III-Jetronic
Main jet / needle		—
Injection pressure	bar	4.3 to 4.6
Pump pressure	bar	6.1 to 6.5
Octane rating	RON	95[U]

### Ignition system 80, 90, Coupé & Cabrio 2.3 1987 to 1995

Type		FEI
Ignition coil		Bosch
Primary resistance	ohms	0.5 to 1.5
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	15±1 BTDC @ 720 to 860 N/A
V = Vacuum  NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK
Type		BPR5EKU
Electrode gap	mm	0.70 to 0.90

### Electrical system 80, 90, Coupé & Cabrio 2.3 1987 to 1995

Battery	V / CC / RC	12 / 63Ah
Alternator voltage / full load current / engine rpm		12.5 to 14.5 / _ / 2000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

### Running gear 80, 90, Coupé & Cabrio 2.3 1987 to 1995

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0

<b>Tyres</b>		
Saloon	Size	195/60x14:205/50x15:205/60x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 2.1 <sup>1</sup>
- Estate / Van	bar	—

### Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[+10'±10']
Camber		-45'±30' <sup>2</sup>
Castor		+1°15'±30' <sup>3</sup>
King pin inclination		—

### Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[+20'±20'].4x4: [+20'±10']
Camber		-1°±20'. 4x4: -45'±30'

### Torque wrench settings 80, 90, Coupé & Cabrio 2.3 1987 to 1995

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	30 + 90° N
Front hubs	Nm	265 LkC <sup>4</sup>
Rear hubs	Nm	WSM <sup>5</sup>
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	20

### Capacities 80, 90, Coupé & Cabrio 2.3 1987 to 1995

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	2.4. 4x4: 2.9
Automatic transmission - refill	litres	3.0
Final drive	litres	AT & 4x4: 0.75
Cooling system	litres	7.0
Fuel tank	litres	68. Coupé: 70

### Notes and Illustrations

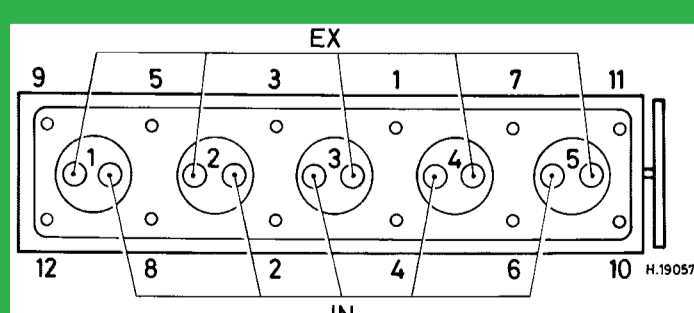
<sup>1</sup>90: 2.3 / 2.3

<sup>2</sup>Coupé & 4x4: -50'±30'

<sup>3</sup>Coupé & 4x4: +1°25'±30'

<sup>4</sup>PAS+4x4 with detachable wheel housing: M14: 120+ 90° M16: 200 + 90°

<sup>5</sup>4x4: 320



2309 cm<sup>3</sup>, 10V