

Engine & Cooling

Fuel

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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 (cm³) / 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	
CO2 @ idle speed [3000 rpm] - see page VI	%		—	
O2 @ 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
Brakes -				
Front (min. friction material thickness)	mm		2.0	
Rear (min. friction material thickness)	mm		2.0	
Tyres				
Saloon	Size		195/60x14:205/50x15:205/60x15	
Estate / Van	Size		—	
Pressure - front / rear - Saloon	bar		2.1 / 2.1¹	
- Estate / Van	bar		—	
Front suspension / wheel alignment				
Toe-in (+) / Toe-out (–)	mm [°]		[+10'±10']	
Camber			-45'±30'²	
Castor			+1°15'±30'³	
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 LkC⁴	
Rear hubs	Nm		WSM⁵	
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

¹90: 2.3 / 2.3
²Coupé & 4x4: -50'±30'
³Coupé & 4x4: +1°25'±30'
⁴PAS+4x4 with detachable wheel housing: M14: 120+ 90° M16: 200 + 90°
⁵4x4: 320

