

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system80, 2.3 CAT1992 to 1994

Type		NG (98kW) SOHC 10V
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 system80, 2.3 CAT1992 to 1994

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 system80, 2.3 CAT1992 to 1994

Type		FEI
Ignition coil		N70
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
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 system80, 2.3 CAT1992 to 1994

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

Running gear80, 2.3 CAT1992 to 1994

Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	7.0 with backing

Tyres		
Saloon	Size	195/65x15: 205/60x15
Estate / Van	Size	195/65x15: 205/60x15
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	2.0 / 2.0

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+10'±10']
Camber		-45'±30'
Castor		+2°10'±30'
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+15'±10']. 4x4: [+10'±10'] PW
Camber		-1°30'±20'. 4x4: -40'±30'

Torque wrench settings80, 2.3 CAT1992 to 1994

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°
Front hubs	Nm	M14: 120 + 90° ¹
Rear hubs	Nm	WSM ²
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	20

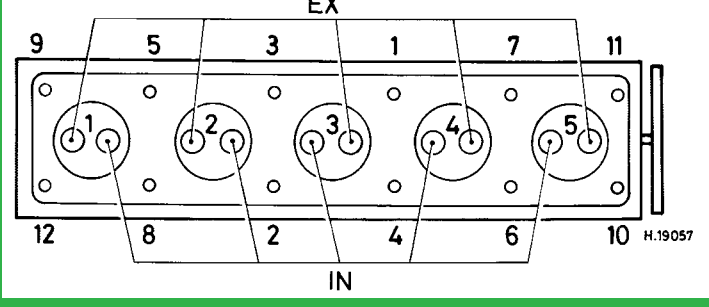
Capacities80, 2.3 CAT1992 to 1994

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	1.0
Cooling system	litres	8.0
Fuel tank	litres	66

Notes and Illustrations

¹M16: 200 + 90°

²4x4: as front



2309 cm³, 10V