

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 V8, 4.2 CAT 1992 to 1994

Type		ABH 206kW
Capacity (cm ³) / number of cylinders		4172 / 8
Compression ratio / pressure	bar	10.6 / ≥7.5
Oil pressure	bar	—
Oil temperature	°C	—
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-5-4-8-6-3-7-2
No 1 cylinder position		PER
Thermostat opening temperature	°C	87
Radiator cap pressure	bar	1.0

Fuel system V8, 4.2 CAT 1992 to 1994

Idle speed - manual [auto]	rpm	690 to 750 [650 to 770] N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Bosch
Type / ref		Motronic
Main jet / needle		—
Injection pressure	bar	3.4 to 3.7
Pump pressure	bar	4.0 to 4.3
Octane rating	RON	95[U]

Ignition system V8, 4.2 CAT 1992 to 1994

Type		DME Motronic
Ignition coil		Bosch
Primary resistance	ohms	0.5 to 1.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	7 to 15 BTDC @ idle N/A
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK
Type		BUR6-EFSZ
Electrode gap	mm	0.70 to 0.90

Electrical system V8, 4.2 CAT 1992 to 1994

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

Running gear V8, 4.2 CAT 1992 to 1994

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0
Tyres		
Saloon	Size	215/60x15:225/50x16:245/40x17
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.4 / 2.4 ¹
- Estate / Van	bar	—
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+10' +10' -5']
Camber		-30' ±30'
Caster		+1°15' +40'
King pin inclination		—
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+10' ±10']
Camber		-45' ±15'

Torque wrench settings V8, 4.2 CAT 1992 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	—
Main bearings	Nm	—
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	60 + 90° N
Front hubs	Nm	200 + 90°
Rear hubs	Nm	200 + 90°
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

Capacities V8, 4.2 CAT 1992 to 1994

Engine oil & filter	litres	7.5
Gearbox - 4-speed [5-speed]	litres	3.5 ²
Automatic transmission - refill	litres	3.0
Final drive	litres	Front: 0.5 ³
Cooling system	litres	8.5
Fuel tank	litres	80

Notes and Illustrations

- ¹245/40x17: 2.5 / 2.5
- ²01E: + 0.1 special gear additive
- ³Rear: 1.7. 01E: 1.5

