

Engine & Cooling

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Automotive Technical
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Engine and cooling system

A8, 4.2

1994 to 1997

Type		ABZ 220kW
Capacity (cm³) / number of cylinders		4172 / 8
Compression ratio / pressure	bar	10.8 / ≥7.5
Oil pressure	bar	1.0 to 2.5 [3.0 to 5.0]
Oil temperature	°C	80
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 to 102
Radiator cap pressure	bar	1.2 to 1.5

Fuel system

A8, 4.2

1994 to 1997

Idle speed - manual [auto]	rpm	720 to 800 N/A
Fast idle speed - manual [auto]	rpm	2500 to 2800
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 [≤0.3]
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		_ Bosch
Type / ref		Motronic
Main jet / needle		—
Injection pressure	bar	3.0 to 3.6
Pump pressure	bar	4.2
Octane rating	RON	95[U]

Ignition system

A8, 4.2

1994 to 1997

Type		Direct electronic
Ignition coil		1 per cylinder
Primary resistance	ohms	—
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control N/A
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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		BUR6-EFSZ
Electrode gap	mm	—

Electrical system

A8, 4.2

1994 to 1997

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

Running gear

A8, 4.2

1994 to 1997

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	7.0 with backing

Tyres		
Saloon	Size	225/60x16: 225/55x17
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+15'±5'] PW
Camber		-30'±30' PW
Castor		—
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+6'±5'] PW
Camber		-40'±30' PW

Torque wrench settings

A8, 4.2

1994 to 1997

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°
Front hubs	Nm	200 + 90°
Rear hubs	Nm	200 + 90°
Wheel nuts / bolts	Nm	120
Spark plugs	Nm	30

Capacities

A8, 4.2

1994 to 1997

Engine oil & filter	litres	7.5
Gearbox - 4-speed [5-speed]	litres	—
Automatic transmission - refill	litres	3.0
Final drive	litres	Front: 0.7. Rear: 1.5
Cooling system	litres	9.0
Fuel tank	litres	—

Notes and Illustrations

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