

Engine & Cooling

Fuel

Ignition

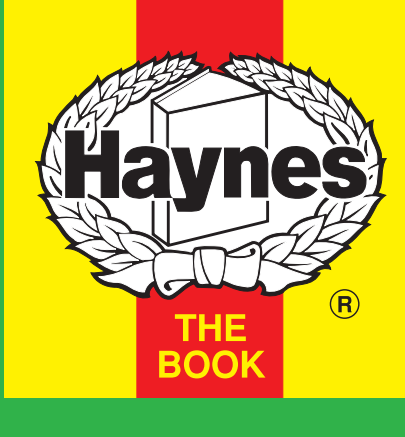
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system

A6, S6 4.2

1994 to 1997

Type		AEC 213kW
Capacity (cm³) / number of cylinders		4172 / 8
Compression ratio / pressure	bar	10.8 / ≥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 to 102
Radiator cap pressure	bar	1.2 to 1.5

Fuel system

A6, S6 4.2

1994 to 1997

Idle speed - manual [auto]	rpm	770 to 830 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	3.4 to 3.7
Pump pressure	bar	4.0 to 4.3
Octane rating	RON	98[U]

Ignition system

A6, S6 4.2

1994 to 1997

Type		Motronic
Ignition coil		—
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	N/A
V = Vacuum NV = No Vacuum		—
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/Bosch
Type		BUR6EFSZ / HGR7KQC
Electrode gap	mm	0.80±0.10

Electrical system

A6, S6 4.2

1994 to 1997

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

Running gear

A6, S6 4.2

1994 to 1997

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	215/60x15: 245/40x17
Estate / Van	Size	215/60x15: 245/40x17
Pressure - front / rear - Saloon	bar	2.4 / 2.4¹
- Estate / Van	bar	2.4 / 2.4¹

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+15'+5'-10']
Camber		-50'+20'-40'
Castor		+55'±40' N/A
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+10'±10']
Camber		-15'±15'

Torque wrench settings

A6, S6 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	25
Flywheel [driveplate]	Nm	60 + 90° N
Front hubs	Nm	200 + 90°
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

Capacities

A6, S6 4.2

1994 to 1997

Engine oil & filter	litres	7.5
Gearbox - 4-speed [5-speed]	litres	3.5²
Automatic transmission - refill	litres	—
Final drive	litres	1.5
Cooling system	litres	8.5
Fuel tank	litres	80

Notes and Illustrations

