

AUDI

100 S4 & A6 S6, 2.2 CAT

1991 to 1997

Engine & Cooling

Fuel

Ignition

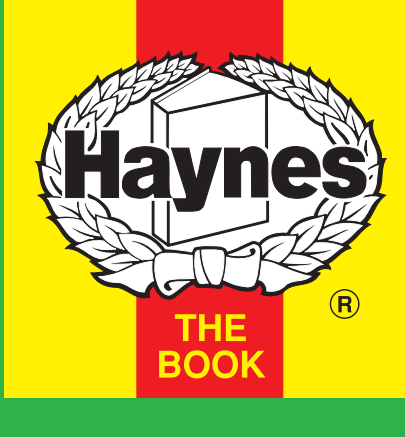
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system

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Type		AAN (169kW) DOHC 20V
Capacity (cm ³) / number of cylinders		2226 / 5
Compression ratio / pressure	bar	9.3 / ≥7.0
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

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Idle speed - manual [auto]	rpm	800±30 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		M2.3.2 Motronic
Main jet / needle		—
Injection pressure	bar	3.4 to 3.7
Pump pressure	bar	4.0 to 4.2
Octane rating	RON	95[U]

Ignition system

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Type		DME Motronic
Ignition coil		Direct
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		Bosch
Type		F5DPOR
Electrode gap	mm	0.60±0.10

Electrical system

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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 gear

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

Tyres		
Saloon	Size	225/50x16: 245/40x17
Estate / Van	Size	225/50x16
Pressure - front / rear - Saloon	bar	2.4 / 2.4
- Estate / Van	bar	2.4 / 2.4

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'±5']
Camber		-50'±30'

Torque wrench settings

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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	40 + 180°
Front hubs	Nm	200 + 90°
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	20

Capacities

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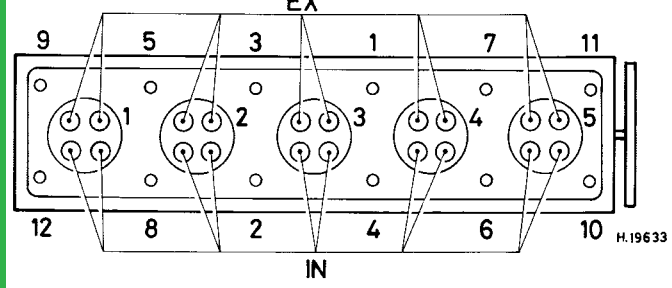
1991 to 1997

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.6 ¹
Automatic transmission - refill	litres	2.7
Final drive	litres	1.5 ²
Cooling system	litres	9.0
Fuel tank	litres	80

Notes and Illustrations

¹+ 0.1 special gear additive

²01F: front: 0.7. Rear: 1.02



2226 cm³, DOHC 20V