

VOLKSWAGEN

Passat 1.6i

1994 to 1996

Engine & Cooling

Fuel

Ignition

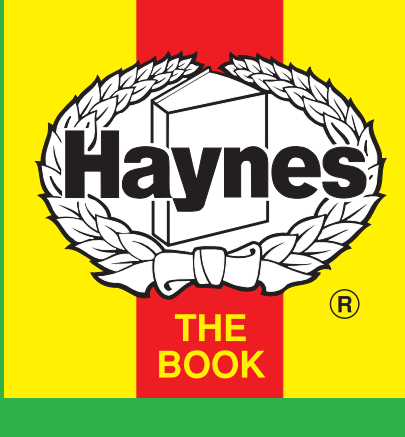
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

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Type	AEK SOHC 8V (X-Flowhead) 74kW	
Capacity (cm ³) / number of cylinders	1597 / 4	
Compression ratio / pressure	bar	10.3/7.5
Oil pressure	bar	[2.0 @ 2000rpm]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	1-3-4-2	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	87 to 102
Radiator cap pressure	bar	1.3 to 1.5

Fuel system

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Idle speed - manual [auto]	rpm	800 to 880 N/A
Fast idle speed - manual [auto]	rpm	2500 to 2800
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 {≤0.3} N/A
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	M2.9-Motronic	
Main jet / needle	—	
Injection pressure	bar	2.5
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition system

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Type	Motronic	
Ignition coil	—	
Primary resistance	ohms	0.5 to 1.2
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	0 to 15 BTDC fluctuating 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	BKUR5ET	
Electrode gap	mm	0.70 to 0.90

Electrical system

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

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	2.5

Tyres		
Saloon	Size	185/65x14:195/60x14:205/50x15
Estate / Van	Size	185/65x14:195/60x14:205/50x15
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[0±10']
Camber	-1°20'±20'	
Castor	1°40'±30' N/A	
King pin inclination	—	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[20'±10'] N/A
Camber	-1°30'±10 N/A	

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° oiled
Main bearings	Nm	65, +90°
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	60 N
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

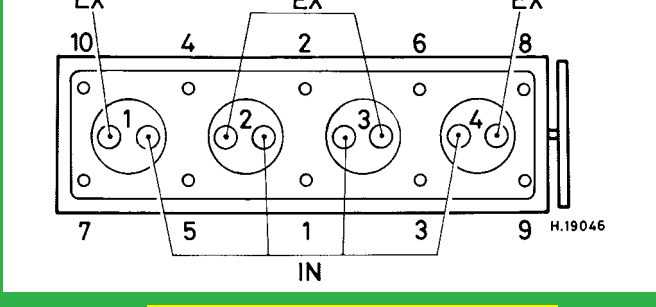
Capacities

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Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	—

Notes and Illustrations



1597 cm³