

VOLKSWAGEN

Passat 2.0 & Syncro

1994 to 1996

Engine & Cooling

Fuel

Ignition

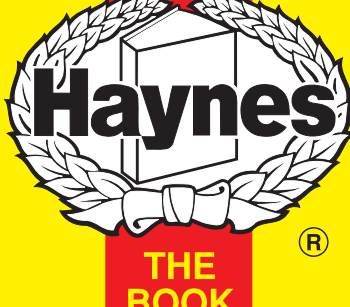
Electrical

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Automotive Technical  
DATA BOOK

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Engine and cooling system		Passat 2.0 & Syncro	1994 to 1996
Type		ADY SOHC 8V 85kW	
Capacity (cm <sup>3</sup> ) / number of cylinders		1984 / 4	
Compression ratio / pressure	bar	10.0 / ≥7.5	
Oil pressure	bar	[2.0]	
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	85 to 105	
Radiator cap pressure	bar	1.3 to 1.5	

Fuel system		Passat 2.0 & Syncro	1994 to 1996
Idle speed - manual [auto]	rpm	750 to 850 N/A	
Fast idle speed - manual [auto]	rpm	2500 to 2800	
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 Ex [≤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		_Volkswagen	
Type / ref		Simos	
Main jet / needle		—	
Injection pressure	bar	—	
Pump pressure	bar	—	
Octane rating	RON	95[U]	

Ignition system		Passat 2.0 & Syncro	1994 to 1996
Type		Simos	
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	5 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		BUR6ET	
Electrode gap	mm	0.70 to 0.90	

Electrical system		Passat 2.0 & Syncro	1994 to 1996
Battery	V / CC / RC	—	
Alternator voltage / full load current / engine rpm		—	
Starter motor current / voltage - cranking	A / V	—	
- locked	A / V	—	

Running gear		Passat 2.0 & Syncro	1994 to 1996
Brakes -			
Front (min. friction material thickness)	mm	7.0 with backing	
Rear (min. friction material thickness)	mm	7.0 with backing	

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	—	

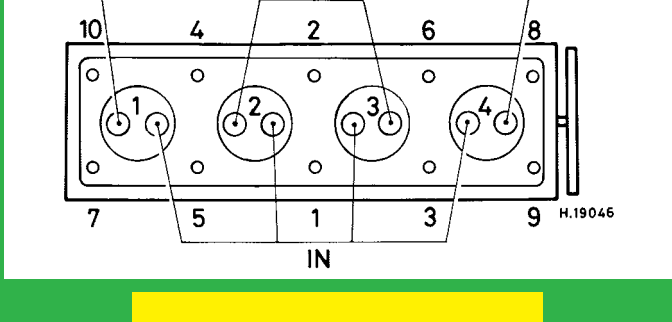
Front suspension / wheel alignment			
Toe-in (+) / Toe-out (–)	mm [°]	[0±10']	
Camber		-1°20'±20'	
Castor		1°40'±30'	
King pin inclination		—	

Rear suspension / wheel alignment			
Toe-in (+) / Toe-out (–)	mm [°]	[20'±10'] 4x4: [15'±20']	
Camber		-1°30'±10' 4x4: -1°15'±30'	

Torque wrench settings		Passat 2.0 & Syncro	1994 to 1996
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° N	
Main bearings	Nm	65 +90° N	
Clutch cover	Nm	—	
Flywheel [driveplate]	Nm	60 +90° N	
Front hubs	Nm	WSM	
Rear hubs	Nm	WSM	
Wheel nuts / bolts	Nm	110	
Spark plugs	Nm	30	

Capacities		Passat 2.0 & Syncro	1994 to 1996
Engine oil & filter	litres	3.8	
Gearbox - 4-speed [5-speed]	litres	2.0 4x4: 2.4	
Automatic transmission - refill	litres	3.0	
Final drive	litres	AT: 0.75 Rear 4x4: 0.7	
Cooling system	litres	6.0	
Fuel tank	litres	—	

Notes and Illustrations



1984 cm<sup>3</sup>, 8V