

VOLKSWAGEN

Passat 2.8 DOHC 30V

1997

Engine & Cooling

Fuel

Ignition

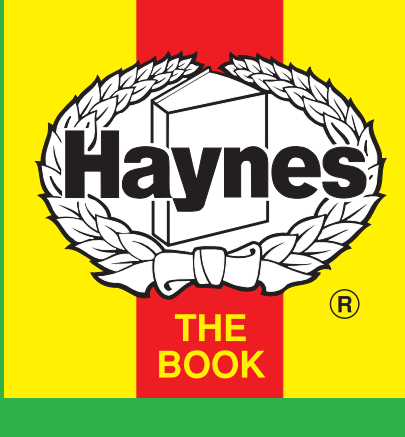
Electrical

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Automotive Technical  
DATA BOOK

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HELP

Engine and cooling system

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Type		ACK DOHC 30V 142kW
Capacity (cm <sup>3</sup> ) / number of cylinders		2771 / 6
Compression ratio / pressure	bar	10.6 / ≥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		1-4-3-6-2-5
No 1 cylinder position		FR
Thermostat opening temperature	°C	87 to 102
Radiator cap pressure	bar	1.2

Fuel system

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Idle speed - manual [auto]	rpm	640 to 760 N/A
Fast idle speed - manual [auto]	rpm	N/A
CO @ idle speed [3000 rpm] - see page VI	%	—
HC @ idle speed [3000 rpm] - see page VI	ppm	—
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		_Bosch
Type / ref		Motronic MPI
Main jet / needle		—
Injection pressure	bar	3.2 to 3.8
Pump pressure	bar	3.8 to 4.2
Octane rating	RON	98[U]

Ignition system

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Type		Motronic
Ignition coil		—
Primary resistance	ohms	≤5.0
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
V = Vacuum    NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		Bosch/NGK
Type		F7LTCR / BKUP6ET-10
Electrode gap	mm	0.90 to 1.10

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	7.0 with backing

Tyres		
Saloon	Size	195/65x15:205/60x15:205/55x16
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.4 / 2.4
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+10'±5']
Camber		-20'±20'. Sports: -35'±20'
Castor		—
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+10'±5']. Sports: [+15'±5']PW
Camber		-1°30'±20' PW

Torque wrench settings

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Cylinder head - stage 1	Nm	60 N
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	—
Big-end bearings	Nm	30 + 90° N
Main bearings	Nm	60 + 180° N
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	40 + 180° [30 + 90°] N
Front hubs	Nm	M14: 115 + 90°. M16: 190 + 90°
Rear hubs	Nm	WSM. 4x4: 115 + 90°
Wheel nuts / bolts	Nm	120
Spark plugs	Nm	25

Capacities

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Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	012: 2.25 / 01A: 2.75
Automatic transmission - refill	litres	2.6
Final drive	litres	WT. AT: 0.75. Rear 4x4: 1.9
Cooling system	litres	8.0
Fuel tank	litres	62

Notes and Illustrations

