

VOLKSWAGEN

Passat 2.8 DOHC 30V

1997

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system		Passat 2.8 DOHC 30V	1997
Type		ACK DOHC 30V 142kW	
Capacity (cm ³) / 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		Passat 2.8 DOHC 30V	1997
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		Passat 2.8 DOHC 30V	1997
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		Passat 2.8 DOHC 30V	1997
Battery	V / CC / RC	—	
Alternator voltage / full load current / engine rpm		—	
Starter motor current / voltage - cranking	A / V	—	
- locked	A / V	—	

Running gear		Passat 2.8 DOHC 30V	1997
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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		Passat 2.8 DOHC 30V	1997
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		Passat 2.8 DOHC 30V	1997
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			