

VOLKSWAGEN

Passat 1.8 Turbo

1997

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system

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Type		AEB DOHC 20V 110kW
Capacity (cm ³) / number of cylinders		1781 / 4
Compression ratio / pressure	bar	9.5 / _
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		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	_
Radiator cap pressure	bar	1.2 to 1.5

Fuel system

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Idle speed - manual [auto]	rpm	820 to 900 N/A
Fast idle speed - manual [auto]	rpm	2500 to 2800 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		M3.2-Motronic
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	3.5 to 4.0
Octane rating	RON	95[U]

Ignition system

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Type		Motronic
Ignition coil		_
Primary resistance	ohms	0.5 to 1.5
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/NGK
Type		F7LTCR / BKUR6ET
Electrode gap	mm	0.90 to 1.10. NGK: 0.7 to 0.9

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	40 N
- stage 2	Nm	60
Cylinder head - stage 3	Nm	+180°
- stage 4	Nm	_
Big-end bearings	Nm	30 + 90°
Main bearings	Nm	65
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	60 + 90°. 2 mass: 40 + 180°
Front hubs	Nm	M14: 115 + 90°. M16: 190 + 90°
Rear hubs	Nm	WSM 4x4: 115 + 90°
Wheel nuts / bolts	Nm	120
Spark plugs	Nm	30

Capacities

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Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	012: 2.25 / 01A: 2.75
Automatic transmission - refill	litres	_
Final drive	litres	WT. Rear 4x4: 1.9
Cooling system	litres	7.0
Fuel tank	litres	62

Notes and Illustrations

