

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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HELP

Engine and cooling system Passat 2.3 VR5 1997

Type	AGZ SOHC 10V VR5 110kW	
Capacity (cm ³) / number of cylinders	2326 / 5	
Compression ratio / pressure	bar	10.0 / _
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	-	
No 1 cylinder position	-	
Thermostat opening temperature	°C	-
Radiator cap pressure	bar	-

Fuel system Passat 2.3 VR5 1997

Idle speed - manual [auto]	rpm	-
Fast idle speed - manual [auto]	rpm	-
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	-
O ₂ @ idle speed [3000 rpm] - see page VI	%	-
Carburettor / fuel injection	_ Bosch	
Type / ref	M3.8.2-Motronic	
Main jet / needle	-	
Injection pressure	bar	-
Pump pressure	bar	-
Octane rating	RON	95[U]

Ignition system Passat 2.3 VR5 1997

Type	Motronic	
Ignition coil	-	
Primary resistance	ohms	-
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	-
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	_/_	
Type	-	
Electrode gap	mm	-

Electrical system Passat 2.3 VR5 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 2.3 VR5 1997

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0
Tyres		
Saloon	Size	195/65x15:205/60x15:205/55x16
Estate / Van	Size	-
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- 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 2.3 VR5 1997

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

Capacities Passat 2.3 VR5 1997

Engine oil & filter	litres	-
Gearbox - 4-speed [5-speed]	litres	2.25
Automatic transmission - refill	litres	5.4
Final drive	litres	WT. AT: 1.0
Cooling system	litres	-
Fuel tank	litres	62

Notes and Illustrations

