

VOLKSWAGEN

Golf/Vento VR6

1992 to 1997

Engine & Cooling

Fuel

Ignition

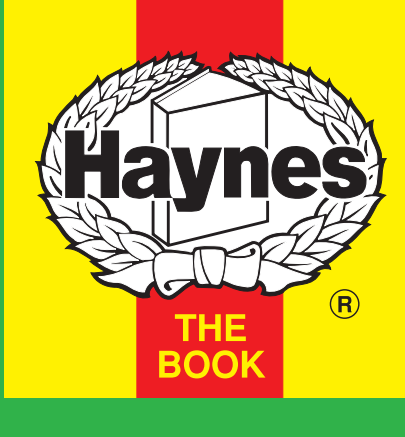
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system		Golf/Vento VR6	1992 to 1997
Type		AAA. 128kW	
Capacity (cm³) / number of cylinders		2792 / 6	
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		1-5-3-6-2-4	
No 1 cylinder position		PER	
Thermostat opening temperature	°C	80	
Radiator cap pressure	bar	1.2 to 1.5	

Fuel system		Golf/Vento VR6	1992 to 1997
Idle speed - manual [auto]	rpm	650 to 750 N/A	
Fast idle speed - manual [auto]	rpm	2500 to 2800	
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 [≤0.3] N/A	
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		Bosch	
Type / ref		M2.7/M2.9-Motronic	
Main jet / needle		—	
Injection pressure	bar	3.50	
Pump pressure	bar	—	
Octane rating	RON	95[U]	

Ignition system		Golf/Vento VR6	1992 to 1997
Type		Motronic ¹	
Ignition coil		Bosch N152 ¹	
Primary resistance	ohms	0.5 to 0.7	
Ballast resistor	ohms	—	
Voltage - Tmnl 15(+) to earth	V	—	
Distributor		Bosch	
Points gap (air gap)	mm	—	
Dwell angle	° (%)	—	
Condenser capacity	µF	—	
Rotation		—	
Ignition timing - basic [static	° Crankshaft @ rpm	4 to 8 BTDC @ 650 to 750 N/A ²	
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		BKR5EKU / BKR5EKUP	
Electrode gap	mm	≤0.70	

Electrical system		Golf/Vento VR6	1992 to 1997
Battery	V / CC / RC	12 / 220 / 44, 280 / 60Ah	
Alternator voltage / full load current / engine rpm		—	
Starter motor current / voltage - cranking	A / V	—	
- locked	A / V	—	

Running gear		Golf/Vento VR6	1992 to 1997
Brakes -			
Front (min. friction material thickness)	mm	7.0 with backing	
Rear (min. friction material thickness)	mm	7.0 with backing	
Tyres			
Saloon	Size	205/50x15	
Estate / Van	Size	—	
Pressure - front / rear - Saloon	bar	2.6 / 2.4 Vento: 2.5 / 2.3	
- Estate / Van	bar	—	

Front suspension / wheel alignment			
Toe-in (+) / Toe-out (–)	mm [°]	[0±10°]	
Camber		-40'±20'	
Castor		+3°25'±30'	
King pin inclination		—	
Rear suspension / wheel alignment			
Toe-in (+) / Toe-out (–)	mm [°]	[+20'±10°]	
Camber		-1°30'±10'	

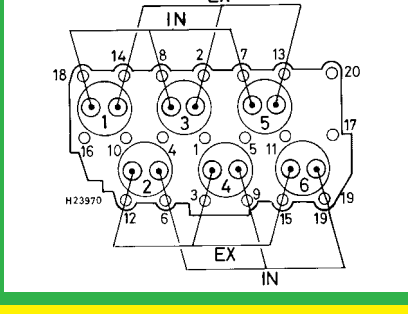
Torque wrench settings		Golf/Vento VR6	1992 to 1997
Cylinder head - stage 1	Nm	40	
- stage 2	Nm	60	
Cylinder head - stage 3	Nm	+ 90°	
- stage 4	Nm	+ 90°	
Big-end bearings	Nm	30 + 90°	
Main bearings	Nm	30 + 180°	
Clutch cover	Nm	20	
Flywheel [driveplate]	Nm	60 + 90° N	
Front hubs	Nm	265 + WSM	
Rear hubs	Nm	WSM	
Wheel nuts / bolts	Nm	110	
Spark plugs	Nm	25	

Capacities		Golf/Vento VR6	1992 to 1997
Engine oil & filter	litres	5.5	
Gearbox - 4-speed [5-speed]	litres	2.0	
Automatic transmission - refill	litres	3.0	
Final drive	litres	AT: 0.75	
Cooling system	litres	10.0	
Fuel tank	litres	55	

Notes and Illustrations

¹93 ►: M2.9-Motronic DIS with 6 output coil

²M2.9-Motronic: 6 BTDC @ 650 to 750 fluctuating



2792 cm³