

VOLKSWAGEN

Golf/Vento VR6

1992 to 1997

Engine & Cooling

Fuel

Ignition

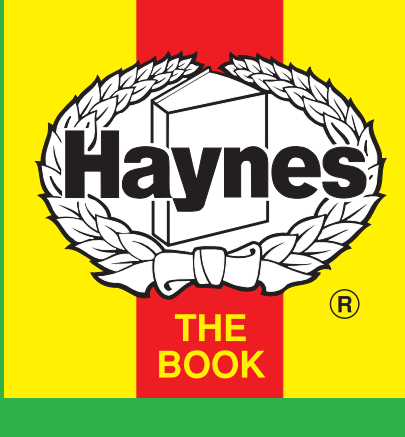
Electrical

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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 (cm <sup>3</sup> ) / 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

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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 <sup>1</sup>
Ignition coil		Bosch N152 <sup>1</sup>
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 <sup>2</sup>
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

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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

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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	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

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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

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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

<sup>1</sup>93 ►: M2.9-Motronic DIS with 6 output coil  
<sup>2</sup>M2.9-Motronic: 6 BTDC @ 650 to 750 fluctuating

2792 cm<sup>3</sup>