

VOLKSWAGEN

Golf/Vento, 1.8i CAT

1992 to 1997

Engine & Cooling

Fuel

Ignition

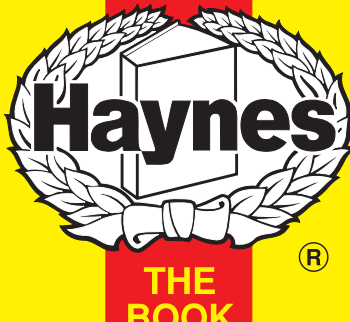
Electrical

Running gear

Torque settings

Capacities

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Automotive Technical
DATA BOOK

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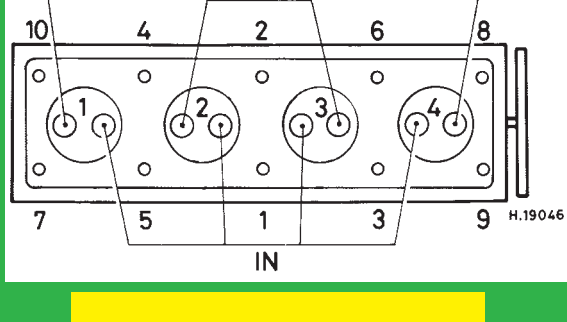
Engine and cooling system			Golf/Vento, 1.8i CAT	1992 to 1997
Type			AAM. 55kW	
Capacity (cm³) / number of cylinders			1781 / 4	
Compression ratio / pressure	bar		9.0 / ≥7.0	
Oil pressure	bar		[2.0]	
Oil temperature	°C		80	
Valve clearance - inlet	mm		0: Hyd.	
Valve clearance - exhaust	mm		0: Hyd.	
Firing order			1-3-4-2	
No 1 cylinder position			TBE	
Thermostat opening temperature	°C		87 to 102	
Radiator cap pressure	bar		1.3 to 1.5	
Fuel system			Golf/Vento, 1.8i CAT	1992 to 1997
Idle speed - manual [auto]	rpm		700 to 1025 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			Mono-Motronic	
Main jet / needle			—	
Injection pressure	bar		0.8 to 1.2	
Pump pressure	bar		—	
Octane rating	RON		91[U]	
Ignition system			Golf/Vento, 1.8i CAT	1992 to 1997
Type			DME Motronic	
Ignition coil			Bosch N152	
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			Anticlockwise	
Ignition timing - basic [static	° Crankshaft @ rpm		6±1 BTDC @ 700 to 1025 N/A	
V = Vacuum NV = No Vacuum			NV	
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/Bosch	
Type			BUR5ET / W8LTCR	
Electrode gap	mm		0.70 to 0.90 / 0.90 to 1.10	
Electrical system			Golf/Vento, 1.8i CAT	1992 to 1997
Battery	V / CC / RC		12 / 220 / 44Ah	
Alternator voltage / full load current / engine rpm			—	
Starter motor current / voltage - cranking	A / V		—	
- locked	A / V		—	
Running gear			Golf/Vento, 1.8i CAT	1992 to 1997
Brakes -				
Front (min. friction material thickness)	mm		7.0 with backing	
Rear (min. friction material thickness)	mm		2.5	
Tyres				
Saloon	Size		175/70x13:185/60x14:195/50x15	
Estate / Van	Size		185/60x14:195/60x14:195/50x15	
Pressure - front / rear - Saloon	bar		2.1 / 1.9 Vento: 2.0 / 1.8	
- Estate / Van	bar		2.1: 1.8: 2.1 / 2.1: 1.8: 2.1	
Front suspension / wheel alignment				
Toe-in (+) / Toe-out (-)	mm [°]		[0±10']	
Camber			-30'±20' 95 ►: -36'±20'	
Castor			+1°45'±30' 95 ►: 1°50'±30'	
King pin inclination			—	
Rear suspension / wheel alignment				
Toe-in (+) / Toe-out (-)	mm [°]		[+20'±10'] ¹	
Camber			-1°30'±10' N/A ²	
Torque wrench settings			Golf/Vento, 1.8i CAT	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		65 ³	
Clutch cover	Nm		25	
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, 1.8i CAT	1992 to 1997
Engine oil & filter	litres		3.8	
Gearbox - 4-speed [5-speed]	litres		1.9	
Automatic transmission - refill	litres		3.0	
Final drive	litres		AT: 0.75	
Cooling system	litres		5.5	
Fuel tank	litres		55 Est: 60	

Notes and Illustrations

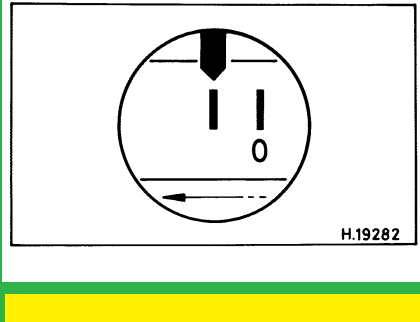
¹Estate: (0°20'+10'-30)

²Estate: -1°35'±10'

³Replace with fully threaded shank bolts: 65 + 90°



1781 cm³, 8V



1781 cm³, 8V