

Engine & Cooling

Fuel

Ignition

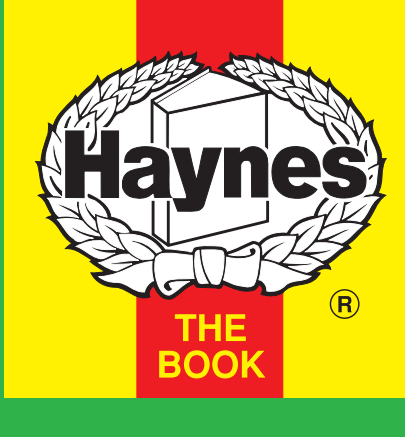
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system

Golf / Vento 1.6i

1995 to 1997

Type		AEE SOHC 8V 55kW
Capacity (cm ³) / number of cylinders		1598 / 4
Compression ratio / pressure	bar	9.8 / ≥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		—
Thermostat opening temperature	°C	84 to 98
Radiator cap pressure	bar	1.4 to 1.6

Fuel system

Golf / Vento 1.6i

1995 to 1997

Idle speed - manual [auto]	rpm	550 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		1AV MPI
Main jet / needle		—
Injection pressure	bar	2.5
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system

Golf / Vento 1.6i

1995 to 1997

Type		Electronic
Ignition coil		—
Primary resistance	ohms	0.5 to 1.2
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	6±1 BTDC @ 600 to 700 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		NGK/Bosch
Type		BUR6ET / W7LTCR
Electrode gap	mm	0.70 to 0.90 / 0.90 to 1.10

Electrical system

Golf / Vento 1.6i

1995 to 1997

Battery	V / CC / RC	—
Alternator voltage / full load current / engine rpm		—
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

Golf / Vento 1.6i

1995 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		-36'±20'
Castor		1°50'±30'
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[20'±10']
Camber		-1°30'±10 N/A

Torque wrench settings

Golf / Vento 1.6i

1995 to 1997

Cylinder head - stage 1	Nm	40 N
- stage 2	Nm	60
Cylinder head - stage 3	Nm	+90°
- stage 4	Nm	+90°
Big-end bearings	Nm	30 +90° N
Main bearings	Nm	65 +90° N
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60 +90° N
Front hubs	Nm	265
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

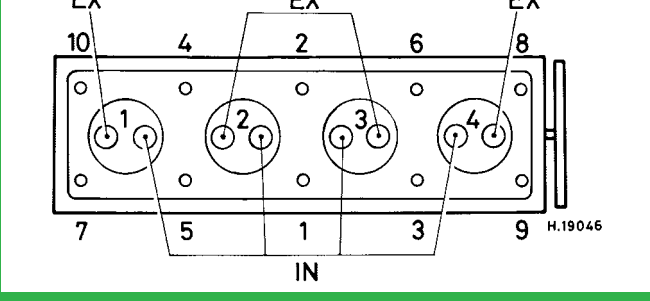
Capacities

Golf / Vento 1.6i

1995 to 1997

Engine oil & filter	litres	3.4
Gearbox - 4-speed [5-speed]	litres	—
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	5.6
Fuel tank	litres	55 Est: 60

Notes and Illustrations



1598 cm³