

VOLKSWAGEN

Golf/Vento 1.8i & 4x4

1994 to 1997

Engine & Cooling

Fuel

Ignition

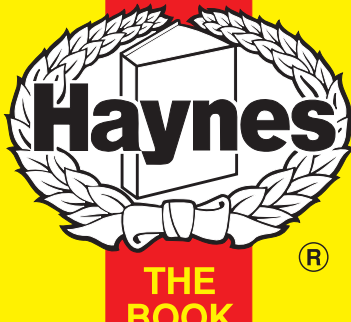
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical  
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system

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1994 to 1997

Type		ADZ SOHC 8V 66kW
Capacity (cm <sup>3</sup> ) / number of cylinders		1781 / 4
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		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	87 to 102
Radiator cap pressure	bar	1.3 to 1.5

Fuel system

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Idle speed - manual [auto]	rpm	700 to 900 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	95[U]

Ignition system

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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 900 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		BUR6ET / W7LTCR
Electrode gap	mm	0.70 to 0.90 / 0.90 to 1.10

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	2.5

Tyres		
Saloon	Size	175/70x13:185/60x14:195/50x15
Estate / Van	Size	195/60x14: 195/50x15
Pressure - front / rear - Saloon	bar	2.1 / 1.9 Vento: 2.2 / 2.0
- Estate / Van	bar	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']. 4x4: [+17'±20'] <sup>1</sup>
Camber		-1°30'±10'. 4x4: -1°30'±30' <sup>2</sup>

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	65 <sup>3</sup>
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60 + 90° N
Front hubs	Nm	265+ WSM
Rear hubs	Nm	WSM. 4x4: 90 + 45°
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities

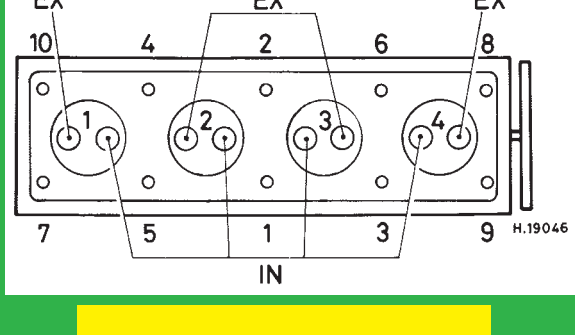
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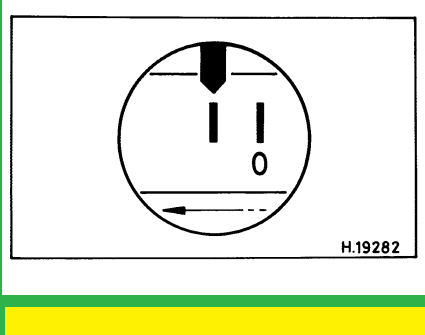
Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	3.0
Final drive	litres	AT: 0.75 Rear 4x4: 0.7
Cooling system	litres	5.5
Fuel tank	litres	55 Est: 60

Notes and Illustrations

<sup>1</sup>Estate: (0°20'+10'-30')  
<sup>2</sup>Estate: -1°35'±10'  
<sup>3</sup>Replace with fully threaded shank bolts: 65 + 90°



1781 cm<sup>3</sup>, 8V



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