

VOLKSWAGEN

Golf/Vento, 1.8i CAT

1992 to 1997

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Golf/Vento, 1.8i CAT

1992 to 1997

Type		AAM. 55kW
Capacity (cm ³) / 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

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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

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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 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

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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

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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	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

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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 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

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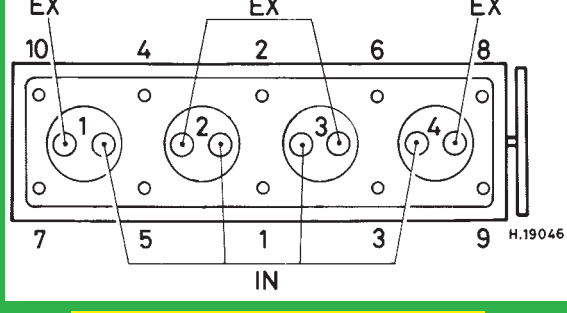
Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	3.0
Final drive	litres	AT: 0.75
Cooling system	litres	5.5
Fuel tank	litres	55 Est: 60

Notes and Illustrations

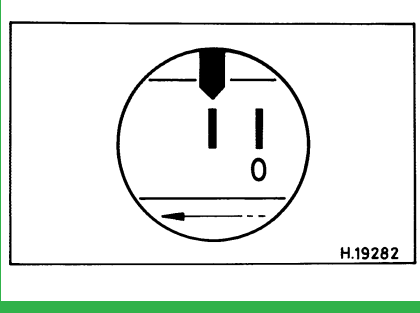
¹Estate: (0°20'+10'-30)

²Estate: -1°35'±10'

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



1781 cm³, 8V



1781 cm³, 8V