

VOLKSWAGEN

Golf 2.0

1996 to 1997

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system

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1996 to 1997

Type	AGG SOHC 8V 84kW	
Capacity (cm ³) / number of cylinders	1984 / 4	
Compression ratio / pressure	bar	9.6 /
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	750 to 850 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	Volkswagen	
Type / ref	Simos 4S MPI	
Main jet / needle	—	
Injection pressure	bar	2.5
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system

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Type	Simos	
Ignition coil	—	
Primary resistance	ohms	0.5 to 1.2
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	5 to 15 BTDC fluctuating 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	
Type	BUR6ET	
Electrode gap	mm	0.70 to 0.90

Electrical system

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Battery	V / CC / RC	—
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	185/60x14:195/50x15: 205/50x15
Estate / Van	Size	195/60x14: 195/50x15
Pressure - front / rear - Saloon	bar	2.3 / 2.1
- Estate / Van	bar	1.8: 2.1 / 2.1: 2.1

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' N/A	

Torque wrench settings

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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°
Main bearings	Nm	65 +90°
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	30

Capacities

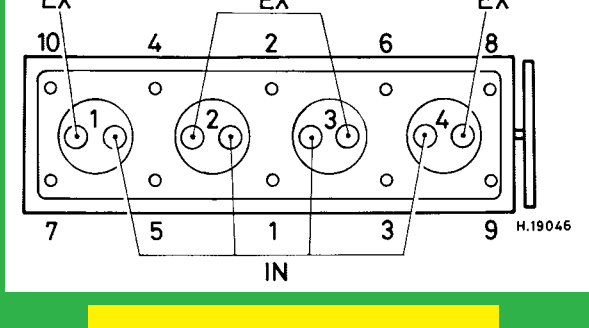
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Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	1.9 4x4: 2.4
Automatic transmission - refill	litres	3.0
Final drive	litres	AT: 0.75 Rear 4x4: 0.7
Cooling system	litres	5.5
Fuel tank	litres	55 Est: 60

Notes and Illustrations

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1984 cm³