

VOLKSWAGEN

Golf 2.0i 16V

1992 to 1997

Engine & Cooling

Fuel

Ignition

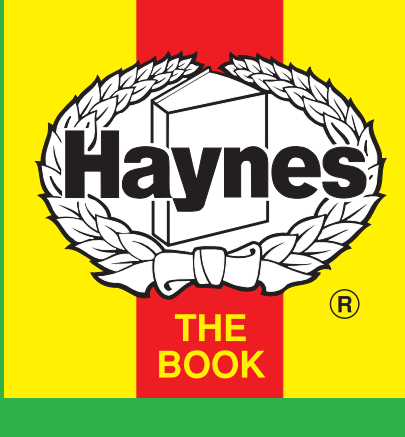
Electrical

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Automotive Technical  
DATA BOOK

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Engine and cooling system

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Type		ABF 110kW DOHC 16V
Capacity (cm <sup>3</sup> ) / number of cylinders		1984 / 4
Compression ratio / pressure	bar	10.5 / ≥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	775 to 875 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		Digifant 3.0. 94 ►: 3.2
Main jet / needle		–
Injection pressure	bar	2.5
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition system

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Type		Digifant
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	3 to 9 BTDC @ 775 to 875 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/Champion
Type		BK7EKU / C6VPYC
Electrode gap	mm	≤0.80 / 0.80 to 0.90

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	7.0 with backing

Tyres		
Saloon	Size	195/50x15: 205/50x15
Estate / Van	Size	–
Pressure - front / rear - Saloon	bar	2.6: 2.2 / 2.4: 2.0
- Estate / Van	bar	–

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

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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>2</sup>
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	4.3
Gearbox - 4-speed [5-speed]	litres	2.2
Automatic transmission - refill	litres	–
Final drive	litres	WT
Cooling system	litres	5.5
Fuel tank	litres	55

Notes and Illustrations

- <sup>1</sup>205/50x15: 2.2 / 2.0
- <sup>2</sup>Replace with fully threaded shank bolts: 65 + 90°

