

VOLKSWAGEN

Polo 1.4 16V

1996 to 1997

Engine & Cooling

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Haynes

THE BOOK

Automotive Technical

DATA BOOK

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Engine and cooling system

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1996 to 1997

Type		AFH DOHC 16V 74kW
Capacity (cm <sup>3</sup> ) / number of cylinders		1390 / 4
Compression ratio / pressure	bar	10.5 / ≥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	84
Radiator cap pressure	bar	1.3 to 1.5

Fuel system

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Idle speed - manual [auto]	rpm	820 to 920 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

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Type		Electronic
Ignition coil		–
Primary resistance	ohms	–
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 @ 820 to 920 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		BKUR6ET
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	2.0
Rear (min. friction material thickness)	mm	2.5

Tyres		
Saloon	Size	175/65x13
Estate / Van	Size	–
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	–

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	(0°±10')
Camber		-0°25'±20'
Castor		1°20'±30'
King pin inclination		–

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	(0°20'±10')
Camber		-1°30'±10'

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° N
Main bearings	Nm	65 +90°
Clutch cover	Nm	–
Flywheel [driveplate]	Nm	60 +90° N
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

Capacities

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Engine oil & filter	litres	3.4
Gearbox - 4-speed [5-speed]	litres	3.1
Automatic transmission - refill	litres	–
Final drive	litres	WT
Cooling system	litres	5.6
Fuel tank	litres	45

Notes and Illustrations

1390 cm<sup>3</sup> 16V