

VOLKSWAGEN

Polo 1.0i

1994 to 1996

Engine & Cooling

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Automotive Technical
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Engine and cooling system

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Type		AEV SOHC 8V. 33kW
Capacity (cm ³) / number of cylinders		1043 / 4
Compression ratio / pressure	bar	10.0 / ≥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	84 to 98
Radiator cap pressure	bar	1.30 to 1.50

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	%	—
HC @ idle speed [3000 rpm] - see page VI	ppm	—
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		_ Bosch
Type / ref		M1.2.3R-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		Motronic
Ignition coil		Bosch
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		—
Ignition timing - basic [static	° Crankshaft @ rpm	5±1 BTDC @ 750 to 850 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/Bosch
Type		BUR6ET / W7LTCR
Electrode gap	mm	0.70 to 0.90.Bos: 0.90 to 1.10

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	2.5

Tyres		
Saloon	Size	155/70x13: 175/65x13 ¹
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 2.1. 175/65: 1.9 / 1.9
- Estate / Van	bar	—

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

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+20'±10'] N/A
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 +90°
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60 + 90° N
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities

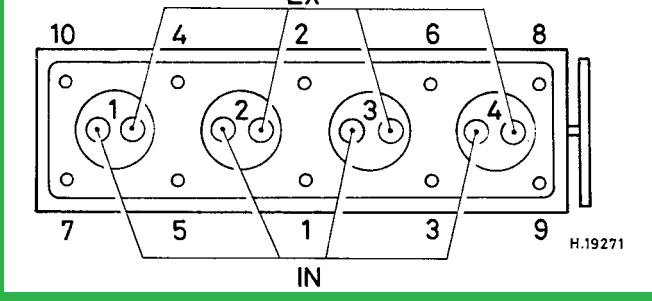
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Engine oil & filter	litres	3.4
Gearbox - 4-speed [5-speed]	litres	3.1
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	5.6
Fuel tank	litres	45

Notes and Illustrations

¹185/55x14: 195/45x15



The diagram shows a cross-section of an oil pan with four oil level marks numbered 1, 2, 3, and 4. Mark 1 is the lowest, followed by 2, 3, and 4. An arrow labeled 'EX' points to mark 2, and an arrow labeled 'IN' points to mark 1. The oil level is indicated to be between marks 1 and 2. The diagram is labeled H.19271.

1043 cm³