

VOLKSWAGEN

Polo 1.05i CAT

1991 to 1994

Engine & Cooling

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Automotive Technical
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Engine and cooling system

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1991 to 1994

Type		AAU. 33kW. US83
Capacity (cm ³) / number of cylinders		1043 / 4
Compression ratio / pressure	bar	9.8 / ≥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
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	—
CO @ idle speed [3000 rpm] - see page VI	%	0.2 to 1.0 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
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
Primary resistance	ohms	0.5 to 0.8
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±1 BTDC @ 750 to 850
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° 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		Bosch/Champion
Type		W8DTC / N7BYC
Electrode gap	mm	0.70 to 0.90

Electrical system

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Battery	V / CC / RC	12 / 175 / 60
Alternator voltage / full load current / engine rpm		12.5 to 14.5 / _ / 3000
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	135x13: 145x13: 155/70x13
Estate / Van	Size	135x13: 145x13
Pressure - front / rear - Saloon	bar	1.7 / 1.7 ¹
- Estate / Van	bar	1.7 / 1.7

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[0±10']
Camber		0±30'
Castor		+2°20'±30'
King pin inclination		—

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

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 ²
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60 + 90° N
Front hubs	Nm	210
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	25

Capacities

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Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	2.2 [3.1]
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	5.6
Fuel tank	litres	42

Notes and Illustrations

¹**135x13: 1.9 / 1.9**

²**Replace with fully threaded shank bolts: 65 + 90**

1043 cm³

1043 cm³