

VOLKSWAGEN

Polo Classic / Caddy 1.6

1996 to 1997

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Polo Classic / Caddy 1.6

1996 to 1997

Type		1F SOHC 8V 55kW
Capacity (cm ³) / number of cylinders		1598 / 4
Compression ratio / pressure	bar	9.0 / ≥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	87
Radiator cap pressure	bar	1.3 to 1.5

Fuel system

Polo Classic / Caddy 1.6

1996 to 1997

Idle speed - manual [auto]	rpm	700 to 1000 N/A
Fast idle speed - manual [auto]	rpm	2500 to 2800
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 [≤0.3] Ex 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		Mono-Motronic
Main jet / needle		—
Injection pressure	bar	1.2
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system

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1996 to 1997

Type		Motronic
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	Computer control 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		Bosch/NGK
Type		W8LTCR / BUR5ET
Electrode gap	mm	0.90 to 1.10 / 0.70 to 0.90

Electrical system

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1996 to 1997

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	185/60x14
Estate / Van	Size	175/65x14
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	—

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

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	(0°20'±10')
Camber		-1°30'±10' ²

Torque wrench settings

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1996 to 1997

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	20
Flywheel [driveplate]	Nm	60 +90° N
Front hubs	Nm	265
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities

Polo Classic / Caddy 1.6

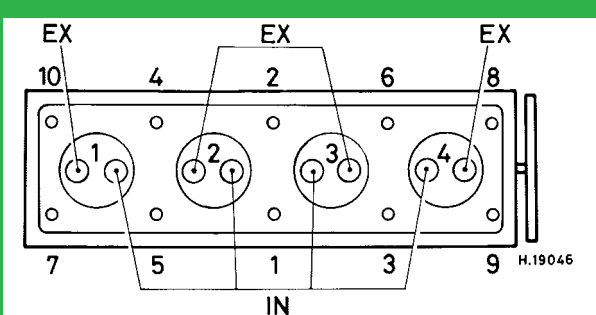
1996 to 1997

Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	2.7
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	—
Fuel tank	litres	—

Notes and Illustrations

¹Caddy: 0°33'±30'

²Caddy: -1°±10'



1598 cm³