

VOLKSWAGEN

Polo 1.05i CAT

1989 to 1990

Engine & Cooling

Fuel

Ignition

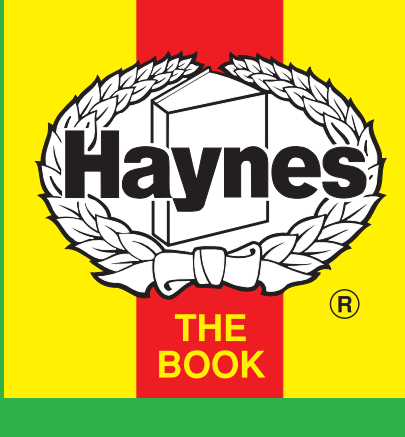
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical  
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system

Polo 1.05i CAT

1989 to 1990

Type		AAK. 33kW
Capacity (cm <sup>3</sup> ) / number of cylinders		1043 / 4
Compression ratio / pressure	bar	9.5 / ≥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	87
Radiator cap pressure	bar	1.2 to 1.5

Fuel system

Polo 1.05i CAT

1989 to 1990

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-Jetronic
Main jet / needle		–
Injection pressure	bar	0.8 to 1.2
Pump pressure	bar	–
Octane rating	RON	91[U]

Ignition system

Polo 1.05i CAT

1989 to 1990

Type		TCI-H
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 @ 800
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	–
	° Crankshaft @ rpm	–
	° Crankshaft @ rpm	–
Centrifugal check.	° Crankshaft @ rpm	5 to 9 @ 2600
	° Crankshaft @ rpm	14 to 18 @ 4000
	° Crankshaft @ rpm	24 to 28 @ 5700
Vacuum range check	mbar	190 to 390
Maximum vacuum advance	° Crankshaft	12 to 16
Spark plugs		Bosch/Champion
Type		W7DTC / N7BYC
Electrode gap	mm	0.70 to 0.90

Electrical system

Polo 1.05i CAT

1989 to 1990

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

Polo 1.05i CAT

1989 to 1990

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	145x13
Pressure - front / rear - Saloon	bar	1.7 / 1.7'
- Estate / Van	bar	1.6 / 1.6

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 [°]	[+25'±15']
Camber		-1°40'±20'

Torque wrench settings

Polo 1.05i CAT

1989 to 1990

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	210
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	20

Capacities

Polo 1.05i CAT

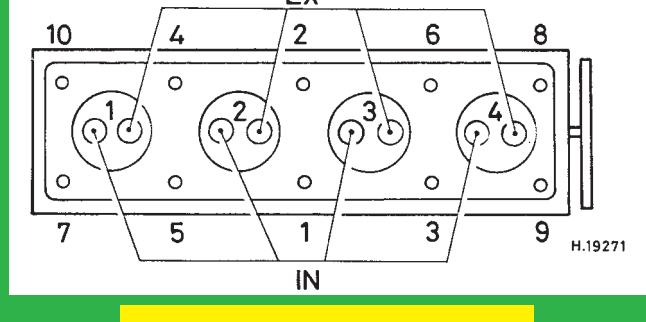
1989 to 1990

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

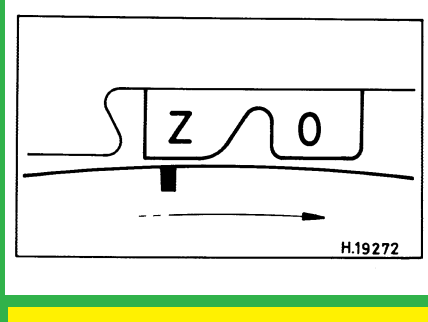
Notes and Illustrations

<sup>1</sup>135x13: 1.8 / 1.8

<sup>2</sup>Replace with fully threaded shank bolts: 65 + 90°



1043 cm³



1043 cm³