

VOLKSWAGEN

Polo 1.3

1985 to 1994

Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

Polo 1.3

1985 to 1994

Type	MH. 89 ►: 2G. 40kW	
Capacity (cm ³) / number of cylinders	1272 / 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 1.3

1985 to 1994

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	2000±100
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
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	Pierburg	
Type / ref	2E3	
Main jet / needle	102.5, 110	
Injection pressure	bar	—
Pump pressure	bar	0.35 to 0.40
Octane rating	RON	91[E 91 RON]

Ignition system

Polo 1.3

1985 to 1994

Type	TCI-H	
Ignition coil	Bosch	
Primary resistance	ohms	0.52 to 0.76 ¹
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±50
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	10 to 14 @ 2600
	° Crankshaft @ rpm	12 to 16 @ 3800
	° Crankshaft @ rpm	15 to 19 @ 5400
Vacuum range check	mbar	120 to 280
Maximum vacuum advance	° Crankshaft	11 to 15
Spark plugs	Bosch/Champion	
Type	W7DTC / N7BYC ²	
Electrode gap	mm	0.70 to 0.90 ²

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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1985 to 1994

Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	2.5

Tyres		
Saloon	Size	145x13: 155/70x13: 165/65x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.7 / 1.7
- Estate / Van	bar	—

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

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1985 to 1994

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 ³
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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1985 to 1994

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

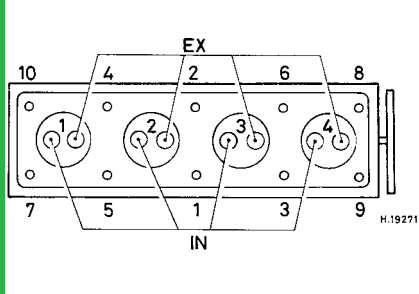
Notes and Illustrations

¹08.87 ►: 0.6 to 0.8

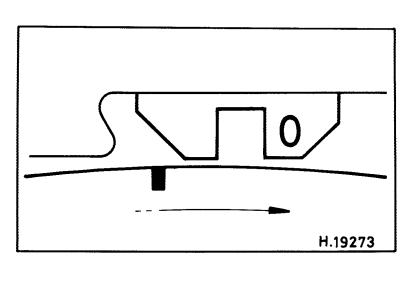
²Coil with grey sticker: W7DCO / N7YCX, gap: 0.70 to 0.80

³Replace with fully threaded shank bolts: 65 + 90°

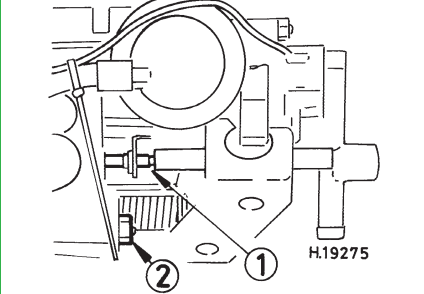
1: Idle speed 2: CO / Mixture



1272 cm³



1272 cm³



Solex / Pierburg 2E3