



HELP

Engine and cooling system	Polo 1.3 MPI CAT	1990 to 1994
Type	25 55kW 116C83	

Capacity (cm ³) / number of cylinders		1272 / 4
Compression ratio / pressure	bar	10.0 / _
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 1.3 MPI CAT	1990 to 1994
-------------	------------------	--------------

Idle speed - manual [auto]	rpm	920±25
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.2
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Volkswagen
Type / ref		Digifant
Main jet / needle		—
Injection pressure	bar	2.5
Pump pressure	bar	3.0
Octane rating	RON	95[11]

Ignition system	Polo 1.3 MPI CAT	1990 to 1994
-----------------	------------------	--------------

Ignition system		Value	Unit	Remarks
Type		Digifant		
Ignition coil		—		
Primary resistance	ohms	0.5 to 0.7		
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 @ 2000 to 2500		
V = Vacuum NV = No Vacuum		—		
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		W6DTC / N6BYC		
Electrode gap	mm	0.70 to 0.90		

Electrical system	Polo 1.3 MPI CAT	1990 to 1994
-------------------	------------------	--------------

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

	1990 to 1994	1995 to 1999	2000 to 2004	2005 to 2009	2010 to 2014	2015 to 2019	2020 to 2024
Running gear							
Belt 1.3 MBL CAT							
1990 to 1994							

Running gear	Polo 1.3 MPI CAT	1990 to 1994
Front		
Rear		

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

Rear (min. friction material thickness)	mm	2.5
Tyres		

Saloon	Size	145x13: 155/70x13: 165/65x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.8 / 1.8

- Estate / Van bar _

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

King pin inclination	—
----------------------	---

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+20'±10']
Roll-over	mm [°]	[+20'±10']

Camber	$-1^{\circ}30' \pm 10'$
--------	-------------------------

Torque wrench settings		Polo 1.3 MPI CAT	1990 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 ¹	
Clutch cover	Nm	25	
Flywheel [driveplate]	Nm	60 + 90° N	
Front hubs	Nm	210	
Rear hubs	Nm	WSM	
Wheel nuts / bolts	Nm	90	
Camshaft lock	Nm	20	

Capacities P. 110-111 NEW DATE: 10/20/10 10/20/10

Capacities		Polo 1.3 MPI CAT	1990 to 1994
Engine oil & filter	litres	3.5	
Gearbox - 4-speed [5-speed]	litres	3.1	
Automatic transmission - refill	litres	—	
Final drive	litres	WT	
Cooling system	litres	5.6	
Fuel tank	litres	42	

10

1. Dolphins with fully threaded shark belts 35 : 333

1: Idle speed 2: CO / Mixture

