

VOLKSWAGEN

Passat 2.0 CAT

1993 to 1995

Engine & Cooling

Fuel

Ignition

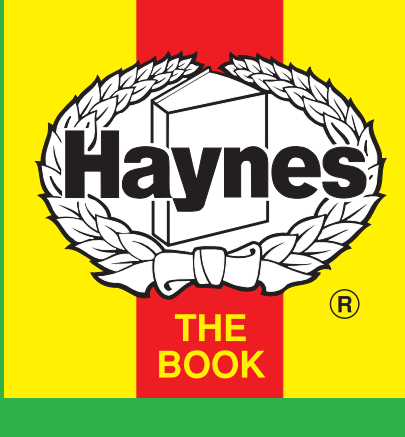
Electrical

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

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Type		ABF DOHC 16V 110kW
Capacity (cm ³) / number of cylinders		1984 / 4
Compression ratio / pressure	bar	10.5 / ≥7.5
Oil pressure	bar	[2.0 @ 2000rpm]
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	85 to 105
Radiator cap pressure	bar	1.4 to 1.6

Fuel system

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Idle speed - manual [auto]	rpm	775 to 875 N/A
Fast idle speed - manual [auto]	rpm	–
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 Ex [≤0.3] 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		_Volkswagen
Type / ref		Digifant
Main jet / needle		–
Injection pressure	bar	–
Pump pressure	bar	–
Octane rating	RON	95[U]

Ignition system

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Type		Digifant
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	3 to 9 BTDC fluctuating 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		NGK/Champion
Type		BK7EKU / C6VPYC
Electrode gap	mm	0.80. Champion: 0.80 to 0.90

Electrical system

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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	7.0
Rear (min. friction material thickness)	mm	7.0

Tyres		
Saloon	Size	205/50x15:195/55x15
Estate / Van	Size	205/50x15:195/55x15
Pressure - front / rear - Saloon	bar	2.4/2.4
- Estate / Van	bar	2.4/2.4

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0'±10'
Camber		-1°10'±20'
Castor		3°20'±30'
King pin inclination		–

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

Torque wrench settings

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Cylinder head - stage 1	Nm	40 N
- stage 2	Nm	60
Cylinder head - stage 3	Nm	+90°
- stage 4	Nm	+90°
Big-end bearings	Nm	30 +90° oiled
Main bearings	Nm	65 +90°
Clutch cover	Nm	–
Flywheel [driveplate]	Nm	60, +90° N
Front hubs	Nm	90 + 45°
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	–

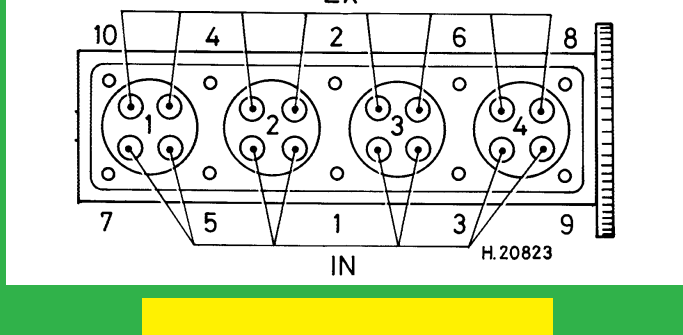
Capacities

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Engine oil & filter	litres	4.3
Gearbox - 4-speed [5-speed]	litres	[2.0]
Automatic transmission - refill	litres	–
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	–

Notes and Illustrations



1984 cm³, 16V ABF