

VOLKSWAGEN

Passat 1.8i

1993 to 1994

Engine & Cooling

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Haynes

THE BOOK

Automotive Technical

DATA BOOK

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HELP

Engine and cooling system

Passat 1.8i

1993 to 1994

Type		ABS SOHC 66kW
Capacity (cm ³) / number of cylinders		1781 / 4
Compression ratio / pressure	bar	10.0 / ≥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	1.3 to 1.5

Fuel system

Passat 1.8i

1993 to 1994

Idle speed - manual [auto]	rpm	700 to 900
Fast idle speed - manual [auto]	rpm	2500 to 2800
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 Ex [≤0.3]
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-Motronic
Main jet / needle		—
Injection pressure	bar	0.8 to 1.2
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system

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1993 to 1994

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	N/A
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	—
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK/Bosch
Type		BUR6ET / W7LTCR
Electrode gap	mm	0.7 to 0.9 / 0.9 to 1.1

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 with backing
Rear (min. friction material thickness)	mm	2.5

Tyres		
Saloon	Size	185/65x14:195/60x14:205/50x15
Estate / Van	Size	185/65x14:195/60x14:205/50x15
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[0±10']
Camber		-1°20'±20'
Castor		1°40'±30' N/A
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 N
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities

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1993 to 1994

Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	3.0
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	—

Notes and Illustrations

1781 cm³, 8V