

VOLKSWAGEN

Passat VR6

1991 to 1993

Engine & Cooling

Fuel

Ignition

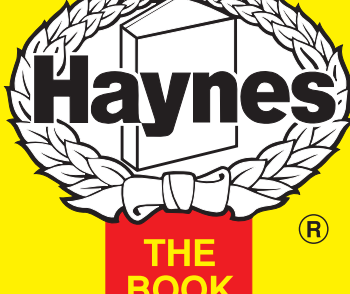
Electrical

Running gear

Torque settings

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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.

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HELP

Engine and cooling system

Passat VR6

1991 to 1993

Type		AAA. 128kW
Capacity (cm ³) / number of cylinders		2792 / 6
Compression ratio / pressure	bar	10.0 / ≥7.5
Oil pressure	bar	[2.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-5-3-6-2-4
No 1 cylinder position		PER
Thermostat opening temperature	°C	85
Radiator cap pressure	bar	1.2 to 1.5

Fuel system

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Idle speed - manual [auto]	rpm	660 to 740 N/A
Fast idle speed - manual [auto]	rpm	–
CO @ idle speed [3000 rpm] - see page VI	%	–
HC @ idle speed [3000 rpm] - see page VI	ppm	–
CO2 @ idle speed [3000 rpm] - see page VI	%	–
O2 @ idle speed [3000 rpm] - see page VI	%	–
Carburettor / fuel injection		Bosch
Type / ref		Motronic M2.7 / 2.9
Main jet / needle		–
Injection pressure	bar	–
Pump pressure	bar	–
Octane rating	RON	95[U]

Ignition system

Passat VR6

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Type		Motronic ¹
Ignition coil		N152 ¹
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		–
Ignition timing - basic [static	° Crankshaft @ rpm	4 to 8 BTDC @ 650 to 750 N/A ¹
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		Champion
Type		C9MCC
Electrode gap	mm	0.70 to 0.80

Electrical system

Passat VR6

1991 to 1993

Battery	V / CC / RC	12 / 265 / 80, 280 / 60Ah
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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Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	7.0 with backing

Tyres		
Saloon	Size	205/50x15
Estate / Van	Size	205/50x15
Pressure - front / rear - Saloon	bar	2.3 / 2.3
- Estate / Van	bar	2.3 / 2.3

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

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

Torque wrench settings

Passat VR6

1991 to 1993

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	30 + 180°
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	60 + 90° N
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities

Passat VR6

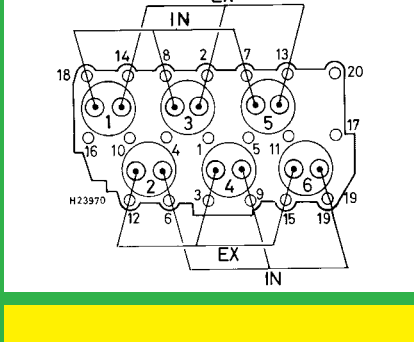
1991 to 1993

Engine oil & filter	litres	6.0
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	3.0
Final drive	litres	AT: 0.75
Cooling system	litres	10.0
Fuel tank	litres	70

Notes and Illustrations

¹93 ►: M2.9-Motronic: DIS with 6 output coil

²M2.9-Motronic: 6 to 7.5 BTDC @ 650 to 750 N/A



2792 cm³