

VOLKSWAGEN

Sharan 2.8

1995 to 1997

Engine & Cooling

Fuel

Ignition

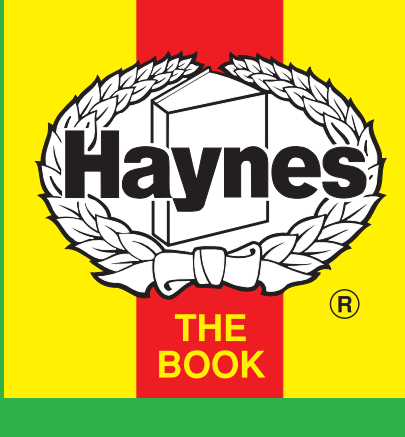
Electrical

Running gear

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Capacities

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Automotive Technical  
DATA BOOK

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Engine and cooling system

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Type	AAA. VR6. 128kW	
Capacity (cm <sup>3</sup> ) / number of cylinders	2792 / 6	
Compression ratio / pressure	bar	10.0 / ≥7.5
Oil pressure	bar	[≥2.0 @ 2000]
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	TCE	
Thermostat opening temperature	°C	80 to 105
Radiator cap pressure	bar	1.4 to 1.6

Fuel system

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Idle speed - manual [auto]	rpm	650 to 750 N/A
Fast idle speed - manual [auto]	rpm	2500 to 2800 N/A
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 [≤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	_Bosch	
Type / ref	Motronic M3.8.1	
Main jet / needle	—	
Injection pressure	bar	2.5
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition system

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Type	Motronic	
Ignition coil	N152	
Primary resistance	ohms	1.5
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	4 to 8° BTDC @ Idle 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	
Type	BKR5EKU / BKR5EKUP	
Electrode gap	mm	0.70

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	—
Estate / Van	Size	195/65x15:205/60x15:215/60x15
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	2.6:2.8:2.8 / 2.8:2.8:2.6

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+10' ± 20'
Camber	-20' ± 45'	
Castor	3°20' ± 40'	
King pin inclination	—	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+10' ± 25' (not Nivomat)
Camber	-20' ± 30' (not Nivomat)	

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° N
Main bearings	Nm	30 +180° N
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	60 +90° N
Front hubs	Nm	150 +90° N
Rear hubs	Nm	200 N
Wheel nuts / bolts	Nm	140
Spark plugs	Nm	25

Capacities

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Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	2.2
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	9.0 <sup>1</sup>
Fuel tank	litres	70

Notes and Illustrations

<sup>1</sup>2 Heat exchangers: 10.8, 2 Heat exchangers + extra water heater: 11.4

