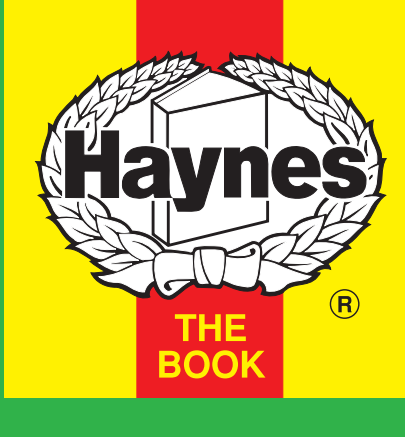




Automotive Technical

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

Sharan 2.8

1995 to 1997

Type		AAA. VR6. 128kW
Capacity (cm ³) / 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

Sharan 2.8

1995 to 1997

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

Sharan 2.8

1995 to 1997

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

Sharan 2.8

1995 to 1997

Battery	V / CC / RC	—
Alternator voltage / full load current / engine rpm		—
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

Sharan 2.8

1995 to 1997

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

Sharan 2.8

1995 to 1997

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

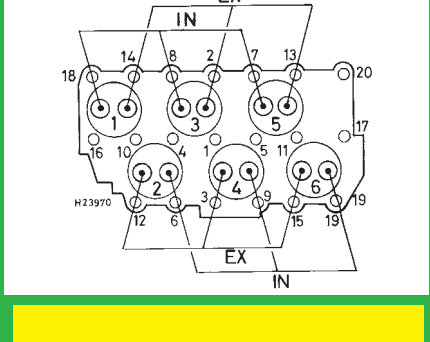
Sharan 2.8

1995 to 1997

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 ¹
Fuel tank	litres	70

Notes and Illustrations

¹2 Heat exchangers: 10.8, 2 Heat exchangers + extra water heater: 11.4



2792 cm³