

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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Engine and cooling system Voyager 2.0i 1996 to 1997

Type	SOHC 16V 98kW	
Capacity (cm ³) / number of cylinders	1996 / 4	
Compression ratio / pressure	bar	9.8 / ≥11.7
Oil pressure	bar	0.25 [1.7 to 5.5]
Oil temperature	°C	85
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	88 to 93
Radiator cap pressure	bar	0.98 to 1.20

Fuel system Voyager 2.0i 1996 to 1997

Idle speed - manual [auto]	rpm	Refer to vehicle
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	—	
Type / ref	MPI	
Main jet / needle	—	
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system Voyager 2.0i 1996 to 1997

Type	—	
Ignition coil	Weastec	
Primary resistance	ohms	0.45 to 0.65
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 V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm	Refer to vehicle
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	_/Champion	
Type	RC9YC	
Electrode gap	mm	0.84 to 0.97

Electrical system Voyager 2.0i 1996 to 1997

Battery	V / CC / RC	—
Alternator voltage / full load current / engine rpm	12 / 75 / _	
Starter motor current / voltage - cranking	A / V	150 to 280 / _
- locked	A / V	—

Running gear Voyager 2.0i 1996 to 1997

Brakes -		
Front (min. friction material thickness)	mm	—
Rear (min. friction material thickness)	mm	—
Tyres		
Saloon	Size	215/65x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	—
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[-0.2° to 0.4°]
Camber	-0.2° to 0.8°	
Castor	1.3°	
King pin inclination	—	
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-0.6° to 0.6°
Camber	-0.8° to 0.4°	

Torque wrench settings Voyager 2.0i 1996 to 1997

Cylinder head - stage 1	Nm	34
- stage 2	Nm	68
Cylinder head - stage 3	Nm	68
- stage 4	Nm	+ 90°
Big-end bearings	Nm	27 + 90°
Main bearings	Nm	M11: 81. M8: 30
Clutch cover	Nm	28
Flywheel [driveplate]	Nm	95
Front hubs	Nm	245
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	129
Spark plugs	Nm	28

Capacities Voyager 2.0i 1996 to 1997

Engine oil & filter	litres	4.25
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	9.0
Fuel tank	litres	75.6

Notes and Illustrations

