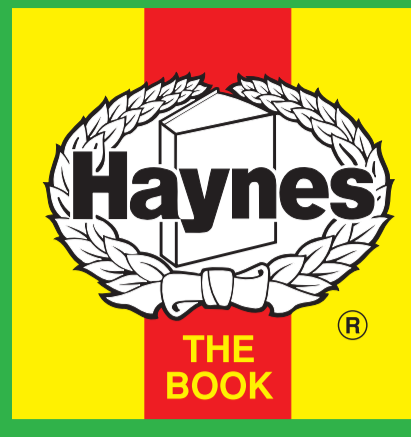


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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 Voyager 3.3i 1991 to 1997

Type		OHV 12V 116kW
Capacity (cm ³) / number of cylinders		3301 / 6
Compression ratio / pressure	bar	8.9 / ≥6.9
Oil pressure	bar	0.35 [2.1 to 5.5]
Oil temperature	°C	85
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-2-3-4-5-6
No 1 cylinder position		–
Thermostat opening temperature	°C	88 to 93
Radiator cap pressure	bar	0.98 to 1.20

Fuel system Voyager 3.3i 1991 to 1997

Idle speed - manual [auto]	rpm	Refer to vehicle
Fast idle speed - manual [auto]	rpm	–
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
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		PCM MPI
Main jet / needle		–
Injection pressure	bar	3.3
Pump pressure	bar	–
Octane rating	RON	91[U]

Ignition system Voyager 3.3i 1991 to 1997

Type		Direct electronic
Ignition coil		Diamond. ToyoDenso
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	° Crankshaft @ rpm	Refer to vehicle 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		_/Champion
Type		RN14MC5
Electrode gap	mm	1.20 to 1.30

Electrical system Voyager 3.3i 1991 to 1997

Battery	V / CC / RC	–
Alternator voltage / full load current / engine rpm		12 / 90, 120 / –
Starter motor current / voltage - cranking	A / V	–
- locked	A / V	–

Running gear Voyager 3.3i 1991 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 3.3i 1991 to 1997

Cylinder head - stage 1	Nm	61
- stage 2	Nm	88
Cylinder head - stage 3	Nm	88
- stage 4	Nm	+ 90°
Big-end bearings	Nm	54 + 90°
Main bearings	Nm	41 + 90°
Clutch cover	Nm	–
Flywheel [driveplate]	Nm	–
Front hubs	Nm	245
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	129
Spark plugs	Nm	28

Capacities Voyager 3.3i 1991 to 1997

Engine oil & filter	litres	4.3
Gearbox - 4-speed [5-speed]	litres	–
Automatic transmission - refill	litres	3.8
Final drive	litres	WT
Cooling system	litres	9.5
Fuel tank	litres	75.6

Notes and Illustrations

