

Engine &amp; Cooling

Fuel

Ignition

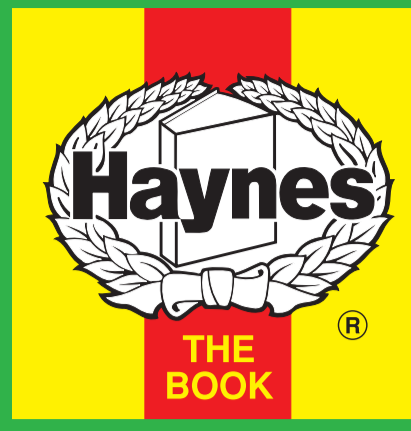
Electrical

Running gear

Torque settings

Capacities

Notes &amp; Illustrations



# Automotive Technical DATA BOOK

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## Engine and cooling system

Mentor 1.5i 1996 to 1997

Type		SOHC 8V
Capacity (cm <sup>3</sup> ) / number of cylinders		1498 / 4
Compression ratio / pressure	bar	9.4 / ≥9.5
Oil pressure	bar	[3.5 to 4.0]
Oil temperature	°C	80
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	82
Radiator cap pressure	bar	0.76 to 1.04

## Fuel system

Mentor 1.5i 1996 to 1997

Idle speed - manual [auto]	rpm	700 to 800 WSM
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		—
Type / ref		MPI
Main jet / needle		—
Injection pressure	bar	2.6 to 3.2
Pump pressure	bar	—
Octane rating	RON	95[U]

## Ignition system

Mentor 1.5i 1996 to 1997

Type		Electronic
Ignition coil		—
Primary resistance	ohms	0.81 to 0.99
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	7±1 BTDC @ 700 to 800 WSM
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		BPR5ES
Electrode gap	mm	0.70 to 0.80

## Electrical system

Mentor 1.5i 1996 to 1997

Battery	V / CC / RC	12 / 48Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 70 / —
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

## Running gear

Mentor 1.5i 1996 to 1997

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0

<b>Tyres</b>		
Saloon	Size	175/70x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	—

<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	-2.6±3.0
Camber		0°±30'
Castor		2°±45'
King pin inclination		11°58'

<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	-0.5±3.0
Camber		—

## Torque wrench settings

Mentor 1.5i 1996 to 1997

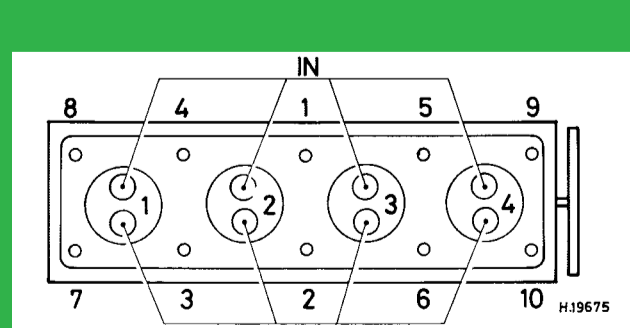
Cylinder head - stage 1	Nm	40 oiled
- stage 2	Nm	78 to 81
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	29 to 34
Main bearings	Nm	54 to 59
Clutch cover	Nm	18 to 26
Flywheel [driveplate]	Nm	96 to 103
Front hubs	Nm	209 to 279
Rear hubs	Nm	209 to 279
Wheel nuts / bolts	Nm	89 to 117
Spark plugs	Nm	15 to 23

## Capacities

Mentor 1.5i 1996 to 1997

Engine oil & filter	litres	3.3
Gearbox - 4-speed [5-speed]	litres	2.7
Automatic transmission - refill	litres	5.7
Final drive	litres	WT
Cooling system	litres	5.0
Fuel tank	litres	48

## Notes and Illustrations

1498 cm<sup>3</sup>