

Engine & Cooling

Fuel

Ignition

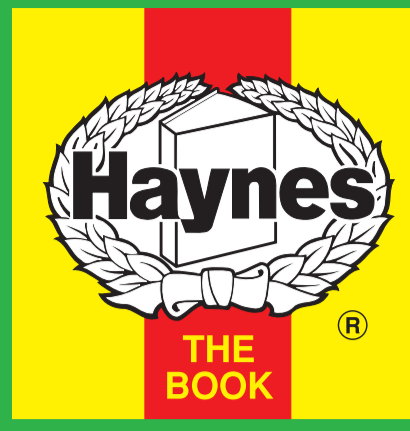
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



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

Mentor 1.6i 1995 to 1997

Type	SOHC 8V 59kW	
Capacity (cm ³) / number of cylinders	1597 / 4	
Compression ratio / pressure	bar	9.3 / 13.2
Oil pressure	bar	[3.9]
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	95
Radiator cap pressure	bar	1.0

Fuel system

Mentor 1.6i 1995 to 1997

Idle speed - manual [auto]	rpm	700 to 800
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 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	2.6 to 3.2
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system

Mentor 1.6i 1995 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
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-11	
Electrode gap	mm	1.0 to 1.1

Electrical system

Mentor 1.6i 1995 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 1.6i 1995 to 1997

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0

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

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-2.6±3.0
Camber	0°±30'	
Castor	2°±45'	
King pin inclination	11°58'	

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-0.5±3.0
Camber	—	

Torque wrench settings

Mentor 1.6i 1995 to 1997

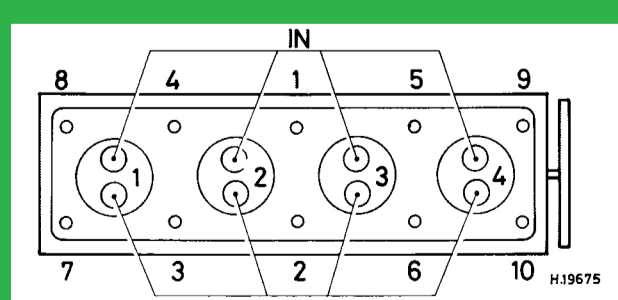
Cylinder head - stage 1	Nm	30
- stage 2	Nm	78 to 81
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	47 to 50
Main bearings	Nm	54 to 59
Clutch cover	Nm	18 to 26
Flywheel [driveplate]	Nm	96 to 103
Front hubs	Nm	209 to 279
Rear hubs	Nm	209 to 279
Wheel nuts / bolts	Nm	89 to 117
Spark plugs	Nm	15 to 23

Capacities

Mentor 1.6i 1995 to 1997

Engine oil & filter	litres	3.2
Gearbox - 4-speed [5-speed]	litres	2.7
Automatic transmission - refill	litres	6.3
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	50

Notes and Illustrations

1597 cm³