

Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



Automotive Technical
DATA BOOK

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MENUHELP

Engine and cooling system

Mentor 1.6i1995 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 1.6i1995 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
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ 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 1.6i1995 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	° Crankshaft @ rpm	7±1 BTDC @ 700 to 800
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	BPR5ES-11	
Electrode gap	mm	1.0 to 1.1

Electrical system

Mentor 1.6i1995 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 1.6i1995 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 1.6i1995 to 1997

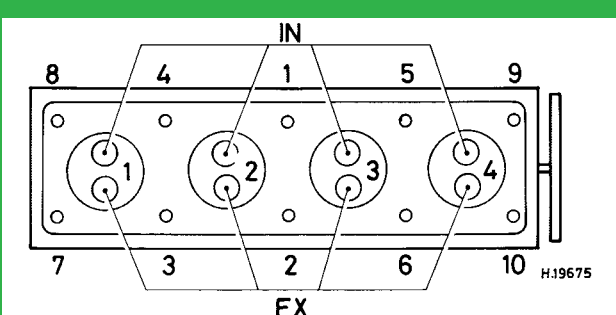
Cylinder head - stage 1	Nm	30
- stage 2	Nm	78 to 81
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	47 to 50
Main bearings	Nm	54 to 59
Clutch cover	Nm	18 to 26
Flywheel [driveplate]	Nm	96 to 103
Front hubs	Nm	209 to 279
Rear hubs	Nm	209 to 279
Wheel nuts / bolts	Nm	89 to 117
Spark plugs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

Capacities

Mentor 1.6i1995 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