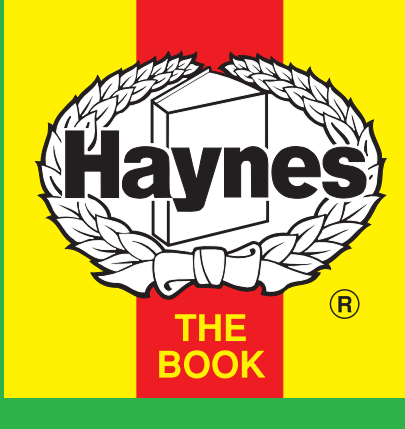


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical
DATA BOOK

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.

MENU	HELP
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Engine and cooling systemMontego 1.61989

Type		16HD86, 91
Capacity (cm³) / number of cylinders		1598 / 4
Compression ratio / pressure	bar	9.6 / _
Oil pressure	bar	0.7 [3.8]
Oil temperature	°C	_
Valve clearance - inlet	mm	0.35 to 0.38¹
Valve clearance - exhaust	mm	0.43 to 0.46¹
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.04

Fuel systemMontego 1.61989

Idle speed - manual [auto]	rpm	650 (Base idle)
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.5 to 3.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		SU
Type / ref		HIF44E
Main jet / needle		0.100 / BFM
Injection pressure	bar	_
Pump pressure	bar	0.3
Octane rating	RON	97[L]

Ignition systemMontego 1.61989

Type		Computerized
Ignition coil		Unipart GCL 139, 143
Primary resistance	ohms	0.71 to 0.81
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Lucas
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	13 to 27 BTDC @ ≤1500
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	_
	° 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		Unipart/Champion
Type		GSP3562, 4562 / C9YC
Electrode gap	mm	0.90

Electrical systemMontego 1.61989

Battery	V / CC / RC	12 / 360 / 70
Alternator voltage / full load current / engine rpm		14.0 / _ / 3000
Starter motor current / voltage - cranking	A / V	55 to 65 / 12
- locked	A / V	360 to 425 / 7.0

Running gearMontego 1.61989

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	165x13: 185/65x14
Estate / Van	Size	185/65x14
Pressure - front / rear - Saloon	bar	1.8 / 2.0
- Estate / Van	bar	2.0 / 2.2

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[0±8']
Camber		A: -15'±21'. B: +30'±21'²
Castor		+37'±30'
King pin inclination		A: +12°30'±30'. B: +12°33'²

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+20' to 40']
Camber		0 to -1°

Torque wrench settingsMontego 1.61989

Cylinder head - stage 1	Nm	40 Lightly oiled
- stage 2	Nm	80
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	_
Big-end bearings	Nm	45
Main bearings	Nm	90
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	75
Front hubs	Nm	203
Rear hubs	Nm	68
Wheel nuts / bolts	Nm	72
Spark plugs	Nm	18

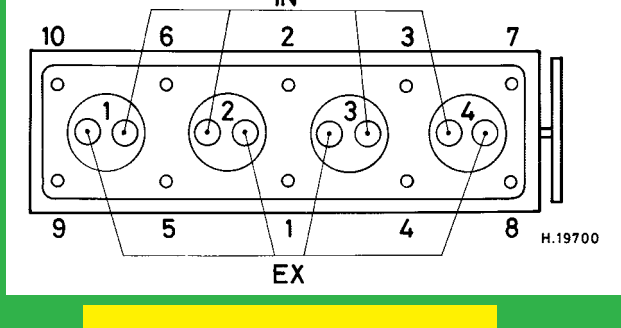
CapacitiesMontego 1.61989

Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	1.5 [2.0]
Automatic transmission - refill	litres	2.3
Final drive	litres	AT: 0.75
Cooling system	litres	8.5
Fuel tank	litres	50

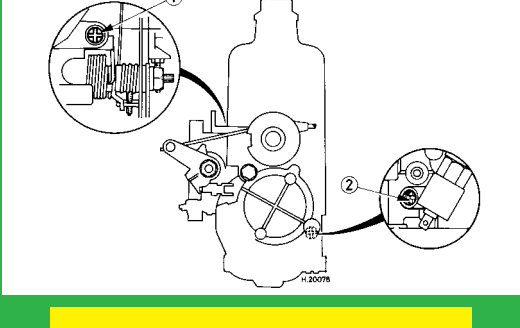
Notes and Illustrations

¹Adjust only if less than 0.30
²A = early negative offset steering geometry, B = later positive

1: Idle speed 2: CO / Mixture



1598 cm³



SU HIF44E