

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Montego 2.0 EFI

1984 to 1988

Type		20H
Capacity (cm ³) / number of cylinders		1994 / 4
Compression ratio / pressure	bar	9.0 / _
Oil pressure	bar	0.7 [3.8]
Oil temperature	°C	_
Valve clearance - inlet	mm	0.31±0.01 ¹
Valve clearance - exhaust	mm	0.31±0.01 ¹
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.04

Fuel system

Montego 2.0 EFI

1984 to 1988

Idle speed - manual [auto]	rpm	735±50 ECU control ²
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 1.5. 85 ►: 2.0 to 2.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	_
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Lucas-Bosch
Type / ref		MPI (Lucas H)
Main jet / needle		_
Injection pressure	bar	2.5 above manifold ³
Pump pressure	bar	4.1
Octane rating	RON	97[L]

Ignition system

Montego 2.0 EFI

1984 to 1988

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	15 BTDC [87 ►: 14] @ 1500
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	40 BTDC @ 1500
	° 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		GSP4452 / RN7YC
Electrode gap	mm	1.00

Electrical system

Montego 2.0 EFI

1984 to 1988

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

Running gear

Montego 2.0 EFI

1984 to 1988

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

Tyres		
Saloon	Size	180/65x365
Estate / Van	Size	180/65x365
Pressure - front / rear - Saloon	bar	2.0 / 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' ⁴
Castor		+37'±30'
King pin inclination		A: +12°30'±30'. B: +12°33' ⁴

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

Torque wrench settings

Montego 2.0 EFI

1984 to 1988

Cylinder head - stage 1	Nm	45
- stage 2	Nm	80
Cylinder head - stage 3	Nm	+ 90° or to 108°
- stage 4	Nm	_
Big-end bearings	Nm	55 Lightly oiled
Main bearings	Nm	105 Lightly oiled
Clutch cover	Nm	23
Flywheel [driveplate]	Nm	58 bolts marked H ⁶
Front hubs	Nm	203
Rear hubs	Nm	68
Wheel nuts / bolts	Nm	72
Spark plugs	Nm	18

Capacities

Montego 2.0 EFI

1984 to 1988

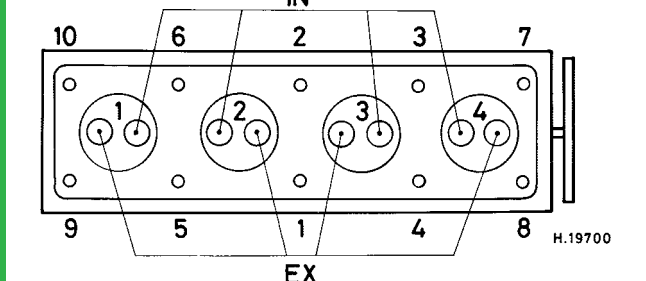
Engine oil & filter	litres	4.9
Gearbox - 4-speed [5-speed]	litres	[2.2]
Automatic transmission - refill	litres	2.0
Final drive	litres	WT
Cooling system	litres	8.5
Fuel tank	litres	50

Notes and Illustrations

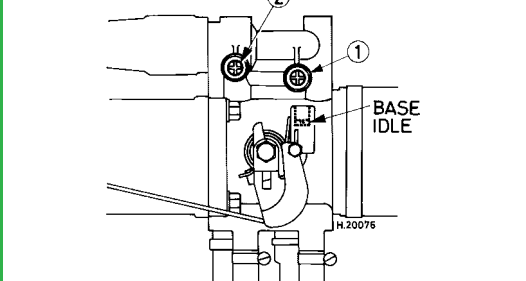
- ¹Adjust only if less than 0.20
- ²600 to 625, setting with air valve closed
- ³84 MY: 3.0
- ⁴A = early negative offset steering geometry, B = later positive
- ⁵Whichever occurs first
- ⁶85 bolts marked X with washer. 120 bolts marked X without washer

1: Idle speed

2: CO / Mixture



1994 cm³



MPI