

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemMontego 2.0 EFi CAT1990 to 1995

Type		20HF 51 [20HF 52] 78kW
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 systemMontego 2.0 EFi CAT1990 to 1995

Idle speed - manual [auto]	rpm	750±25 ECU control
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 Ex
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		Lucas
Type / ref		MPI (H)
Main jet / needle		_
Injection pressure	bar	2.5 above manifold
Pump pressure	bar	4.1
Octane rating	RON	95[U]

Ignition systemMontego 2.0 EFi CAT1990 to 1995

Type		Computerized
Ignition coil		NEC 10013, 10014
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	16 to 18 BTDC @ 1500
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	26 to 36 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	0.85

Electrical systemMontego 2.0 EFi CAT1990 to 1995

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 gearMontego 2.0 EFi CAT1990 to 1995

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

Tyres		
Saloon	Size	185/65x14: 195/55x15
Estate / Van	Size	185/65x14
Pressure - front / rear - Saloon	bar	1.8 / 2.0 ²
- Estate / Van	bar	2.0 / 2.2

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

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

Torque wrench settingsMontego 2.0 EFi CAT1990 to 1995

Cylinder head - stage 1	Nm	45
- stage 2	Nm	80
Cylinder head - stage 3	Nm	+ 90° or to 108 ³
- 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 ⁴
Front hubs	Nm	203
Rear hubs	Nm	68
Wheel nuts / bolts	Nm	72
Spark plugs	Nm	18

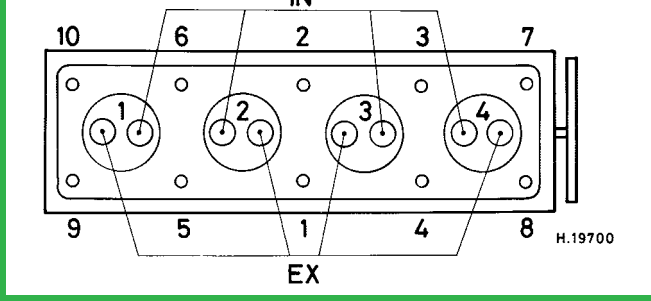
CapacitiesMontego 2.0 EFi CAT1990 to 1995

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

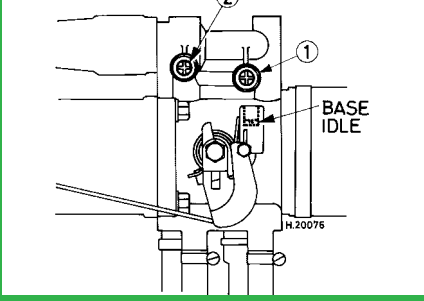
Notes and Illustrations

- ¹Adjust only if less than 0.20
- ²195/55x15: 2.0 / 2.0
- ³Whichever occurs first
- ⁴85 bolts marked X with washer. 120 bolts marked X without washer

1: Idle speed2: CO / Mixture



1994 cm³



MPI (H)