

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.

MENU

HELP

Engine and cooling systemMontego 2.0 EFI¹1989 to 1992

Type		20HE 36 [20HE 37]
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 ²
Valve clearance - exhaust	mm	0.31±0.01 ²
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 EFI¹1989 to 1992

Idle speed - manual [auto]	rpm	750±50 ECU control
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	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
Type / ref		MPI (H)
Main jet / needle		_
Injection pressure	bar	2.5 above manifold
Pump pressure	bar	4.1
Octane rating	RON	97[E 95 RON]

Ignition systemMontego 2.0 EFI¹1989 to 1992

Type		MEMS
Ignition coil		Unipart GCL 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	18+8-6 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		GSP4452 / RN7YC
Electrode gap	mm	0.90

Electrical systemMontego 2.0 EFI¹1989 to 1992

Battery	V / CC / RC	12 / 360 / 60
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 EFI¹1989 to 1992

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	2.0 / 2.0 ³
- 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 EFI¹1989 to 1992

Cylinder head - stage 1	Nm	45
- stage 2	Nm	80
Cylinder head - stage 3	Nm	+ 90° or to 108 ⁴
- 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 ⁵
Front hubs	Nm	203
Rear hubs	Nm	68
Wheel nuts / bolts	Nm	72
Spark plugs	Nm	18

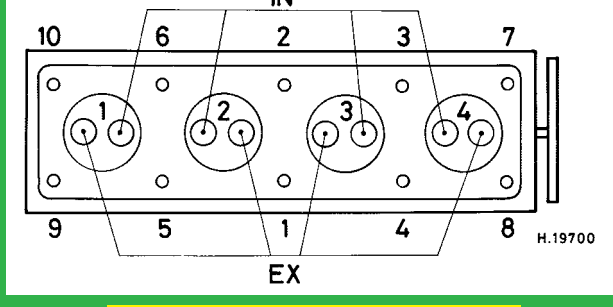
CapacitiesMontego 2.0 EFI¹1989 to 1992

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

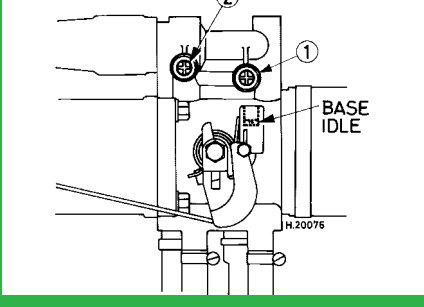
Notes and Illustrations

- ¹Models with Modular Engine Management System (MEMS)
- ²Adjust only if less than 0.20
- ³185/65x14: 1.8 / 2.0
- ⁴Whichever occurs first
- ⁵85 bolts marked X with washer. 120 bolts marked X without washer

1: Idle speed 2: CO / Mixture



1994 cm³



MPI (H)