

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Montego 1.6 (manual choke)

1989 to 1991

Type		16HD89/93
Capacity (cm ³) / 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 0.38 ¹
Valve clearance - exhaust	mm	0.43 to 0.46 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 1.6 (manual choke)

1989 to 1991

Idle speed - manual [auto]	rpm	750±50 [850±50]
Fast idle speed - manual [auto]	rpm	1200±50 [1300±50]
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 / FZX1475 [FZX1511]
Main jet / needle		0.100 / BFM
Injection pressure	bar	_
Pump pressure	bar	0.3
Octane rating	RON	95[L]

Ignition system

Montego 1.6 (manual choke)

1989 to 1991

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	20 BTDC @ ≤950
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		GSP4562 / C9YC
Electrode gap	mm	0.90

Electrical system

Montego 1.6 (manual choke)

1989 to 1991

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 / 7.0

Running gear

Montego 1.6 (manual choke)

1989 to 1991

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 settings

Montego 1.6 (manual choke)

1989 to 1991

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

Capacities

Montego 1.6 (manual choke)

1989 to 1991

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

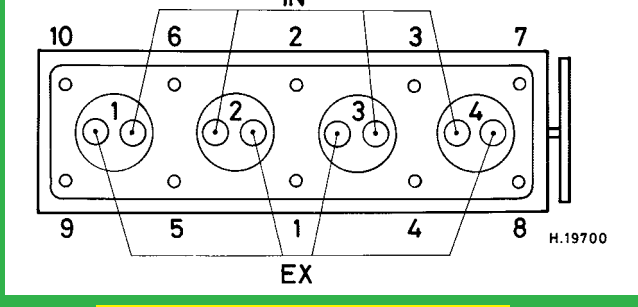
Notes and Illustrations

¹Adjust only if less than 0.30

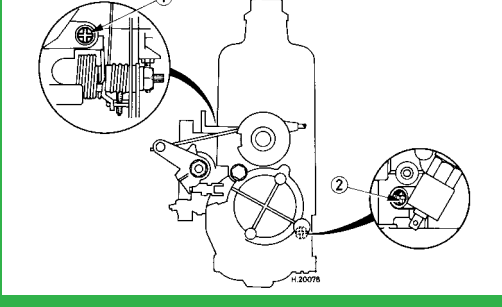
²A = early negative offset steering geometry, B = later positive

1: Idle speed

2: CO / Mixture



1598 cm³



SU HIF44E