

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemMaestro 1.3 (3+E, 4+E)1983 to 1988

Type		12H OHV
Capacity (cm³) / number of cylinders		1275 / 4
Compression ratio / pressure	bar	9.75 / $\bar{}$
Oil pressure	bar	1.0 [4.1]
Oil temperature	°C	$\bar{}$
Valve clearance - inlet	mm	0.33
Valve clearance - exhaust	mm	0.33
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.04

Fuel systemMaestro 1.3 (3+E, 4+E)1983 to 1988

Idle speed - manual [auto]	rpm	625±50
Fast idle speed - manual [auto]	rpm	1150±50
CO @ idle speed [3000 rpm] - see page VI	%	2.5±1.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	$\bar{}$
O2 @ idle speed [3000 rpm] - see page VI	%	$\bar{}$
Carburettor / fuel injection		SU
Type / ref		HIF 44E / FZX 1428
Main jet / needle		0.100 / BCZ
Injection pressure	bar	$\bar{}$
Pump pressure	bar	0.3
Octane rating	RON	97[L]

Ignition systemMaestro 1.3 (3+E, 4+E)1983 to 1988

Type		Electronic
Ignition coil		Unipart.
Primary resistance	ohms	0.71 to 0.81
Ballast resistor	ohms	$\bar{}$
Voltage - Tmnl 15(+) to earth	V	12.0
Distributor		Lucas
Points gap (air gap)	mm	[0.28±0.08]
Dwell angle	° (%)	$\bar{}$
Condenser capacity	µF	$\bar{}$
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	8 BTDC @ 1500
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	$\bar{}$
	° Crankshaft @ rpm	$\bar{}$
	° Crankshaft @ rpm	$\bar{}$
Centrifugal check.	° Crankshaft @ rpm	1 to 5 @ 1600
	° Crankshaft @ rpm	5 to 9 @ 2800
	° Crankshaft @ rpm	10 to 14 @ 4200
Vacuum range check	mbar	133 to 372
Maximum vacuum advance	° Crankshaft	14
Spark plugs		Unipart/Champion
Type		GSP4362 / N9YC
Electrode gap	mm	1.0

Electrical systemMaestro 1.3 (3+E, 4+E)1983 to 1988

Battery	V / CC / RC	12 / 280 / 50
Alternator voltage / full load current / engine rpm		14.0 / 55, 65 / 3000
Starter motor current / voltage - cranking	A / V	65 / 12
- locked	A / V	340 to 390 / 7

Running gearMaestro 1.3 (3+E, 4+E)1983 to 1988

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

Tyres		
Saloon	Size	145x13: 155x13: 165x13 ¹
Estate / Van	Size	$\bar{}$
Pressure - front / rear - Saloon	bar	145: 2.1 / 2.2 ²
- Estate / Van	bar	$\bar{}$

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[0±8']
Camber		A: -15'±21'. B: +30'±21' ³
Castor		+37'±30'
King pin inclination		A: +12°30'±30'.B:+12°33'±30' ⁴

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+30' to 1°]
Camber		-0.5°±0.5°

Torque wrench settingsMaestro 1.3 (3+E, 4+E)1983 to 1988

Cylinder head - stage 1	Nm	38
- stage 2	Nm	80
Cylinder head - stage 3	Nm	$\bar{}$
- stage 4	Nm	$\bar{}$
Big-end bearings	Nm	40
Main bearings	Nm	85
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	75
Front hubs	Nm	203
Rear hubs	Nm	68
Wheel nuts / bolts	Nm	72
Spark plugs	Nm	25

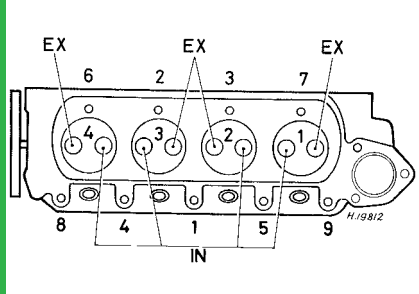
CapacitiesMaestro 1.3 (3+E, 4+E)1983 to 1988

Engine oil & filter	litres	2.8
Gearbox - 4-speed [5-speed]	litres	1.5 [2.0]
Automatic transmission - refill	litres	$\bar{}$
Final drive	litres	WT
Cooling system	litres	6.6
Fuel tank	litres	50

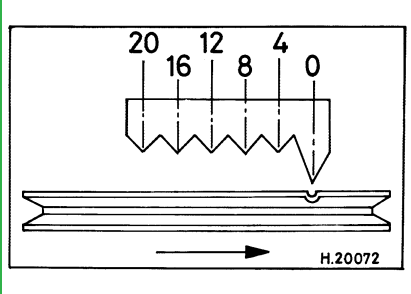
Notes and Illustrations

¹Full specification: WSM
²155,165: 1.8 / 1.9. 87 ►: 155: 1.8 / 2.0. 165: 2.0 / 2.0
³A = early, B = later models
⁴A = early, B = later models

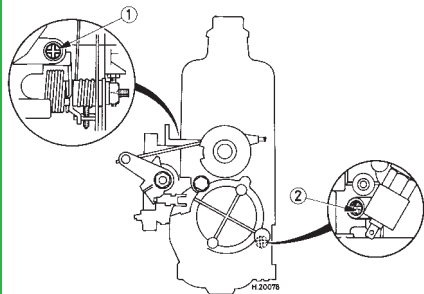
1: Idle speed 2: CO / Mixture



1275 cm³



1275 cm³



SU HIF44E