Automotive Technical DATA BOOK

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MENU HELP

Engine and cooling system — Maestro 2.0i — 1984 to 1989

Type		20H SOHC
Capacity (cm³) / number of cylinders		1994 / 4
Compression ratio / pressure	bar	9.0 / _
Oil pressure	bar	0.7 [3.8]
Oil temperature	ºC	_
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	ºC	88
Radiator cap pressure	bar	1.04

Fuel system — Maestro 2.0i — 1984 to 1989

Idle speed - manual [auto]	rpm	745±45 (ECU control)[2]
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 1.5 (ECU 84399)[3]
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		Lucas-Bosch
Type / ref		MPI hot-wire
Main jet / needle		_
Injection pressure	bar	2.5 to 3.0
Pump pressure	bar	4.1
Octane rating	RON	97[L]

Ignition system — Maestro 2.0i — 1984 to 1989

Type		Computerized
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	º (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	º Crankshaft @ rpm	14 BTDC @ 1500
V = Vacuum NV = No Vacuum		NV
Total ignition advance	º Crankshaft @ rpm	40 BTDC @ 1500
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	Computer control
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	º Crankshaft	_
Spark plugs		Unipart/Champion
Type		GSP4452 / RN7YC
Electrode gap	mm	1.0. 87 ▶: 0.85

Electrical system — Maestro 2.0i — 1984 to 1989

Battery	V / CC / RC	12 / 360 / 60
Alternator voltage / full load current / engine rpm		14.0 / 55, 65 / 3000
Starter motor current / voltage - cranking	A / V	65 / 12
- locked	A / V	360 / 7.0

Running gear — Maestro 2.0i — 1984 to 1989

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	1.5
Tyres		
Saloon	Size	175/65x14: 185/55x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.0[4]
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[0±8']
Camber		A: -15'±21'. B: +30'±21'[5]
Castor		+37'±30'
King pin inclination		A: +12°30'±30'. B:+12°33'±30[5]
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[+30' to 1°]
Camber		-0.5°±0.5°

Torque wrench settings — Maestro 2.0i — 1984 to 1989

Cylinder head - stage 1	Nm	45
- stage 2	Nm	80
Cylinder head - stage 3	Nm	+ 90° or to 108[6]
- 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[7]
Front hubs	Nm	203
Rear hubs	Nm	68
Wheel nuts / bolts	Nm	72
Spark plugs	Nm	18

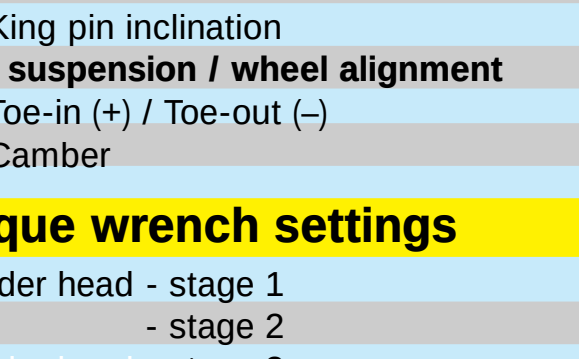
Capacities — Maestro 2.0i — 1984 to 1989

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

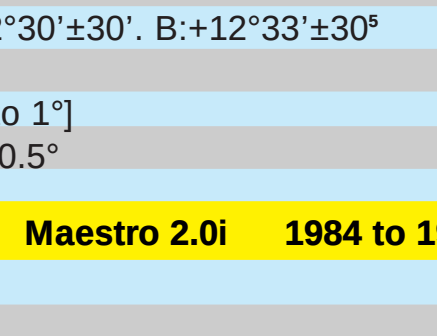
Notes and Illustrations

[1]**Adjust only if less than 0.20**
[2]**625±25, setting with air valve closed**
[3]**2.0 to 2.5 (ECU 84413, 84497, 84498)**
[4]**175/65. 185/55: 2.1 / 2.1**
[5]**A = early, B = later models**
[6]**Whichever occurs first**
[7]**Bolts marked X: 85**

1: Idle speed 2: CO / Mixture



1994 cm³



MPi