

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 systemMaestro 2.0i1984 to 1989

|                                                   |     |                        |
|---------------------------------------------------|-----|------------------------|
| Type                                              |     | 20H SOHC               |
| Capacity (cm <sup>3</sup> ) / 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 <sup>1</sup> |
| Valve clearance - exhaust                         | mm  | 0.31±0.01 <sup>1</sup> |
| Firing order                                      |     | 1-3-4-2                |
| No 1 cylinder position                            |     | TBE                    |
| Thermostat opening temperature                    | °C  | 88                     |
| Radiator cap pressure                             | bar | 1.04                   |

Fuel systemMaestro 2.0i1984 to 1989

|                                           |     |                                     |
|-------------------------------------------|-----|-------------------------------------|
| Idle speed - manual [auto]                | rpm | 745±45 (ECU control) <sup>2</sup>   |
| Fast idle speed - manual [auto]           | rpm | _                                   |
| CO @ idle speed [3000 rpm] - see page VI  | %   | 1.0 to 1.5 (ECU 84399) <sup>3</sup> |
| 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 systemMaestro 2.0i1984 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                     | ° (%)              | _                |
| Condenser capacity              | µF                 | _                |
| Rotation                        |                    | Anticlockwise    |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 14 BTDC @ 1500   |
| V = Vacuum NV = No Vacuum       |                    | NV               |
| Total ignition advance          | ° Crankshaft @ rpm | 40 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                 | 1.0. 87 ►: 0.85  |

Electrical systemMaestro 2.0i1984 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 gearMaestro 2.0i1984 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 <sup>4</sup> |
| - Estate / Van                   | bar  | _                      |

|                                    |        |                                           |
|------------------------------------|--------|-------------------------------------------|
| Front suspension / wheel alignment |        |                                           |
| Toe-in (+) / Toe-out (-)           | mm [°] | [0±8']                                    |
| Camber                             |        | A: -15'±21'. B: +30'±21' <sup>5</sup>     |
| Castor                             |        | +37'±30'                                  |
| King pin inclination               |        | A: +12°30'±30'. B:+12°33'±30 <sup>5</sup> |

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

Torque wrench settingsMaestro 2.0i1984 to 1989

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

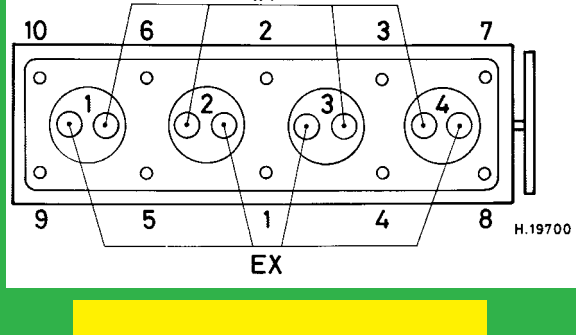
CapacitiesMaestro 2.0i1984 to 1989

|                                 |        |       |
|---------------------------------|--------|-------|
| 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    |

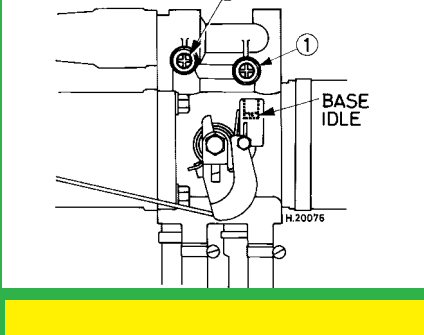
Notes and Illustrations

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

1: Idle speed      2: CO / Mixture



1994 cm<sup>3</sup>



MPi