

Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



Automotive Technical  
DATA BOOK

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MENUHELP

Engine and cooling system

106, 1.11996 to 1997

|                                      |                          |           |
|--------------------------------------|--------------------------|-----------|
| Type                                 | TU1M/L3/L (HDZ/HDY) 44kW |           |
| Capacity (cm³) / number of cylinders | 1124 / 4                 |           |
| Compression ratio / pressure         | bar                      | 9.7 / _   |
| Oil pressure                         | bar                      | [≥4.0]    |
| Oil temperature                      | °C                       | 90        |
| Valve clearance - inlet              | mm                       | 0.20±0.05 |
| Valve clearance - exhaust            | mm                       | 0.40±0.05 |
| Firing order                         | 1-3-4-2                  |           |
| No 1 cylinder position               | FE                       |           |
| Thermostat opening temperature       | °C                       | 88        |
| Radiator cap pressure                | bar                      | 1.4       |

Fuel system

106, 1.11996 to 1997

|                                           |                     |            |
|-------------------------------------------|---------------------|------------|
| Idle speed - manual [auto]                | rpm                 | 850±50 N/A |
| Fast idle speed - manual [auto]           | rpm                 | _          |
| CO @ idle speed [3000 rpm] - see page VI  | %                   | ≤0.3 N/A   |
| HC @ idle speed [3000 rpm] - see page VI  | ppm                 | ≤200       |
| CO2 @ idle speed [3000 rpm] - see page VI | %                   | ≥10.0      |
| O2 @ idle speed [3000 rpm] - see page VI  | %                   | _          |
| Carburettor / fuel injection              | _ Bosch             |            |
| Type / ref                                | MA3.1 Mono-Motronic |            |
| Main jet / needle                         | _                   |            |
| Injection pressure                        | bar                 | 0.8        |
| Pump pressure                             | bar                 | _          |
| Octane rating                             | RON                 | 95[U]      |

Ignition system

106, 1.11996 to 1997

|                                 |                    |                      |
|---------------------------------|--------------------|----------------------|
| Type                            | Static             |                      |
| Ignition coil                   | Bosch BAE 04       |                      |
| Primary resistance              | ohms               | 0.8                  |
| Ballast resistor                | ohms               | _                    |
| Voltage - Tmnl 15(+) to earth   | V                  | _                    |
| Distributor                     | _                  |                      |
| Points gap (air gap)            | mm                 | _                    |
| Dwell angle                     | ° (%)              | _                    |
| Condenser capacity              | µF                 | _                    |
| Rotation                        | _                  |                      |
| Ignition timing - basic [static | ° Crankshaft @ rpm | Computer control N/A |
| V = Vacuum    NV = No Vacuum    |                    |                      |
| Total ignition advance          | ° Crankshaft @ rpm | Computer control     |
|                                 | ° 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                     | Bosch/Eyquem       |                      |
| Type                            | FR7LDC / RFC52LZ2E |                      |
| Electrode gap                   | mm                 | 0.90                 |

Electrical system

106, 1.11996 to 1997

|                                                     |             |   |
|-----------------------------------------------------|-------------|---|
| Battery                                             | V / CC / RC | _ |
| Alternator voltage / full load current / engine rpm |             |   |
| Starter motor current / voltage - cranking          | A / V       | _ |
| - locked                                            | A / V       | _ |

Running gear

106, 1.11996 to 1997

|                                          |    |   |
|------------------------------------------|----|---|
| Brakes -                                 |    |   |
| Front (min. friction material thickness) | mm | _ |
| Rear (min. friction material thickness)  | mm | _ |

|                                  |      |                  |
|----------------------------------|------|------------------|
| Tyres                            |      |                  |
| Saloon                           | Size | 155/70x13        |
| Estate / Van                     | Size | _                |
| Pressure - front / rear - Saloon | bar  | Refer to vehicle |
| - Estate / Van                   | bar  | _                |

|                                    |        |   |
|------------------------------------|--------|---|
| Front suspension / wheel alignment |        |   |
| Toe-in (+) / Toe-out (-)           | mm [°] | _ |
| Camber                             |        |   |
| Castor                             |        |   |
| King pin inclination               |        |   |

|                                   |        |   |
|-----------------------------------|--------|---|
| Rear suspension / wheel alignment |        |   |
| Toe-in (+) / Toe-out (-)          | mm [°] | _ |
| Camber                            |        |   |

Torque wrench settings

106, 1.11996 to 1997

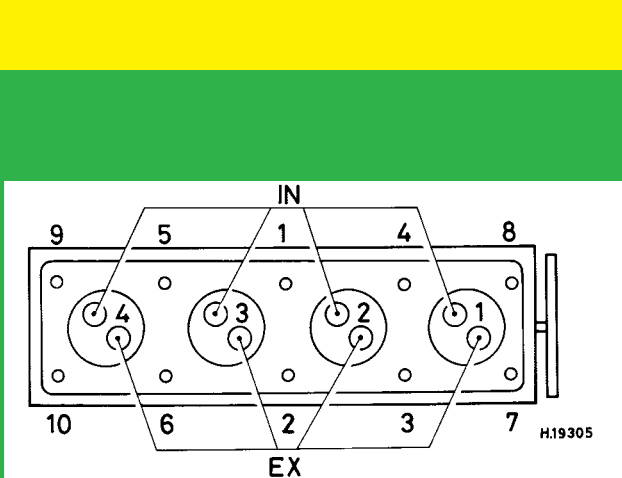
|                         |    |                            |
|-------------------------|----|----------------------------|
| Cylinder head - stage 1 | Nm | Bolts ≤175.5mm below heads |
| - stage 2               | Nm | 20 oiled                   |
| Cylinder head - stage 3 | Nm | + 240±5°                   |
| - stage 4               | Nm | _                          |
| Big-end bearings        | Nm | 40                         |
| Main bearings           | Nm | 20 + 45°                   |
| Clutch cover            | Nm | 13                         |
| Flywheel [driveplate]   | Nm | 65 LkC                     |
| Front hubs              | Nm | 250                        |
| Rear hubs               | Nm | _                          |
| Wheel nuts / bolts      | Nm | 85                         |
| Spark plugs             | Nm | 25                         |

Capacities

106, 1.11996 to 1997

|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 3.5 |
| Gearbox - 4-speed [5-speed]     | litres | 2.0 |
| Automatic transmission - refill | litres | _   |
| Final drive                     | litres | WT  |
| Cooling system                  | litres | 5.7 |
| Fuel tank                       | litres | 45  |

Notes and Illustrations



1124 cm³