

Engine & Cooling

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Automotive Technical  
DATA BOOK

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HELP

Engine and cooling system

80, 1.6 CAT

1992 to 1995

|                                                   |     |                    |
|---------------------------------------------------|-----|--------------------|
| Type                                              |     | ABM (51kW) SOHC 8V |
| Capacity (cm <sup>3</sup> ) / number of cylinders |     | 1595 / 4           |
| Compression ratio / pressure                      | bar | 9.0 / ≥7.0         |
| Oil pressure                                      | bar | [2.0]              |
| Oil temperature                                   | °C  | 80                 |
| Valve clearance - inlet                           | mm  | 0: Hyd.            |
| Valve clearance - exhaust                         | mm  | 0: Hyd.            |
| Firing order                                      |     | 1-3-4-2            |
| No 1 cylinder position                            |     | TBE                |
| Thermostat opening temperature                    | °C  | 85                 |
| Radiator cap pressure                             | bar | 1.2 to 1.5         |

Fuel system

80, 1.6 CAT

1992 to 1995

|                                           |     |                 |
|-------------------------------------------|-----|-----------------|
| Idle speed - manual [auto]                | rpm | 800 to 1000 N/A |
| Fast idle speed - manual [auto]           | rpm | —               |
| CO @ idle speed [3000 rpm] - see page VI  | %   | ≤0.5 N/A        |
| HC @ idle speed [3000 rpm] - see page VI  | ppm | ≤200            |
| CO2 @ idle speed [3000 rpm] - see page VI | %   | —               |
| O2 @ idle speed [3000 rpm] - see page VI  | %   | —               |
| Carburettor / fuel injection              |     | Bosch           |
| Type / ref                                |     | Mono-Motronic   |
| Main jet / needle                         |     | —               |
| Injection pressure                        | bar | 0.8 to 1.2      |
| Pump pressure                             | bar | —               |
| Octane rating                             | RON | 91[U]           |

Ignition system

80, 1.6 CAT

1992 to 1995

|                                 |                    |                            |
|---------------------------------|--------------------|----------------------------|
| Type                            |                    | Motronic                   |
| Ignition coil                   |                    | N70                        |
| Primary resistance              | ohms               | 0.5 to 1.5                 |
| Ballast resistor                | ohms               | —                          |
| Voltage - Tmnl 15(+) to earth   | V                  | —                          |
| Distributor                     |                    | Bosch                      |
| Points gap (air gap)            | mm                 | —                          |
| Dwell angle                     | ° (%)              | —                          |
| Condenser capacity              | µF                 | —                          |
| Rotation                        |                    | Clockwise                  |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 6±2 BTDC @ 800 to 1000 N/A |
| V = Vacuum    NV = No Vacuum    |                    | —                          |
| 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                     |                    | NGK                        |
| Type                            |                    | BUR5ET                     |
| Electrode gap                   | mm                 | 0.90 to 1.10               |

Electrical system

80, 1.6 CAT

1992 to 1995

|                                                     |             |                 |
|-----------------------------------------------------|-------------|-----------------|
| Battery                                             | V / CC / RC | 12 / 36, 45Ah   |
| Alternator voltage / full load current / engine rpm |             | 14.0 / _ / 2000 |
| Starter motor current / voltage - cranking          | A / V       | —               |
| - locked                                            | A / V       | —               |

Running gear

80, 1.6 CAT

1992 to 1995

|                                          |    |     |
|------------------------------------------|----|-----|
| Brakes -                                 |    |     |
| Front (min. friction material thickness) | mm | 2.0 |
| Rear (min. friction material thickness)  | mm | 2.5 |

|                                  |      |                      |
|----------------------------------|------|----------------------|
| Tyres                            |      |                      |
| Saloon                           | Size | 195/65x15: 205/60x15 |
| Estate / Van                     | Size | —                    |
| Pressure - front / rear - Saloon | bar  | 2.0 / 2.0            |
| - Estate / Van                   | bar  | —                    |

|                                    |        |            |
|------------------------------------|--------|------------|
| Front suspension / wheel alignment |        |            |
| Toe-in (+) / Toe-out (–)           | mm [°] | [+10'±10'] |
| Camber                             |        | -45'±30'   |
| Castor                             |        | +1°15'±30' |
| King pin inclination               |        | —          |

|                                   |        |            |
|-----------------------------------|--------|------------|
| Rear suspension / wheel alignment |        |            |
| Toe-in (+) / Toe-out (–)          | mm [°] | [+20'±20'] |
| Camber                            |        | -1°±20'    |

Torque wrench settings

80, 1.6 CAT

1992 to 1995

|                         |    |            |
|-------------------------|----|------------|
| Cylinder head - stage 1 | Nm | 40 N       |
| - stage 2               | Nm | 60         |
| Cylinder head - stage 3 | Nm | + 90°      |
| - stage 4               | Nm | + 90°      |
| Big-end bearings        | Nm | 30 + 90°   |
| Main bearings           | Nm | 65         |
| Clutch cover            | Nm | 25         |
| Flywheel [driveplate]   | Nm | 60 + 90° N |
| Front hubs              | Nm | 265 LkC    |
| Rear hubs               | Nm | WSM        |
| Wheel nuts / bolts      | Nm | 110        |
| Spark plugs             | Nm | 25         |

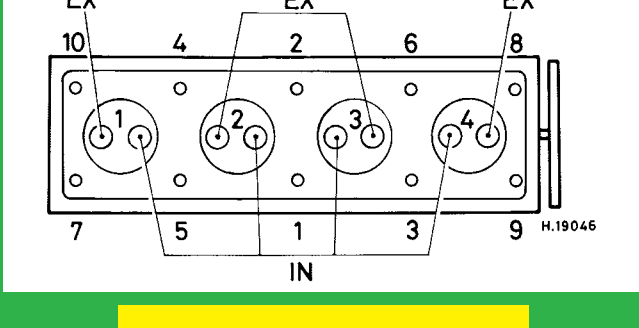
Capacities

80, 1.6 CAT

1992 to 1995

|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 3.0 |
| Gearbox - 4-speed [5-speed]     | litres | 2.4 |
| Automatic transmission - refill | litres | —   |
| Final drive                     | litres | WT  |
| Cooling system                  | litres | 7.0 |
| Fuel tank                       | litres | 68  |

Notes and Illustrations



1595 cm³