

Engine & Cooling

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Automotive Technical  
DATA BOOK

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Engine and cooling system

Megane 1.6 Coupé (DAOF)

1996 to 1997

|                                                   |     |                          |
|---------------------------------------------------|-----|--------------------------|
| Type                                              |     | K7M 702/720 EC96 SOHC 8V |
| Capacity (cm <sup>3</sup> ) / number of cylinders |     | 1598 / 4                 |
| Compression ratio / pressure                      | bar | 9.7 (720: 9.5) /         |
| Oil pressure                                      | bar | 1.0 (3.0)                |
| Oil temperature                                   | °C  | 80                       |
| Valve clearance - inlet                           | mm  | 0.10 to 0.15             |
| Valve clearance - exhaust                         | mm  | 0.25 to 0.30             |
| Firing order                                      |     | 1-3-4-2                  |
| No 1 cylinder position                            |     | FE                       |
| Thermostat opening temperature                    | °C  | 89                       |
| Radiator cap pressure                             | bar | 1.6                      |

Fuel system

Megane 1.6 Coupé (DAOF)

1996 to 1997

|                                           |     |                 |
|-------------------------------------------|-----|-----------------|
| Idle speed - manual [auto]                | rpm | 720±50 N/A      |
| Fast idle speed - manual [auto]           | rpm | —               |
| CO @ idle speed [3000 rpm] - see page VI  | %   | N/A             |
| HC @ idle speed [3000 rpm] - see page VI  | ppm | —               |
| CO2 @ idle speed [3000 rpm] - see page VI | %   | ≥14.5           |
| O2 @ idle speed [3000 rpm] - see page VI  | %   | —               |
| Carburettor / fuel injection              |     | —Siemens Bendix |
| Type / ref                                |     | Fenix 5 SEFI    |
| Main jet / needle                         |     | —               |
| Injection pressure                        | bar | 2.5±0.2         |
| Pump pressure                             | bar | 3.0±0.2         |
| Octane rating                             | RON | 95[U]           |

Ignition system

Megane 1.6 Coupé (DAOF)

1996 to 1997

|                                 |                    |                 |
|---------------------------------|--------------------|-----------------|
| Type                            |                    | Fenix           |
| Ignition coil                   |                    | —               |
| Primary resistance              | ohms               | —               |
| 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 | N/A             |
| V = Vacuum    NV = No Vacuum    |                    | —               |
| Total ignition advance          | ° Crankshaft @ rpm | —               |
|                                 | ° Crankshaft @ rpm | —               |
|                                 | ° Crankshaft @ rpm | —               |
| Centrifugal check.              | ° Crankshaft @ rpm | —               |
|                                 | ° Crankshaft @ rpm | —               |
|                                 | ° Crankshaft @ rpm | —               |
| Vacuum range check              | mbar               | —               |
| Maximum vacuum advance          | ° Crankshaft       | —               |
| Spark plugs                     |                    | Eyquem/Champion |
| Type                            |                    | FC52LS / C10YC  |
| Electrode gap                   | mm                 | 0.9             |

Electrical system

Megane 1.6 Coupé (DAOF)

1996 to 1997

|                                                     |             |                |
|-----------------------------------------------------|-------------|----------------|
| Battery                                             | V / CC / RC | —              |
| Alternator voltage / full load current / engine rpm |             | 14.8 / 75, 110 |
| Starter motor current / voltage - cranking          | A / V       | —              |
| - locked                                            | A / V       | —              |

Running gear

Megane 1.6 Coupé (DAOF)

1996 to 1997

|                                          |    |                  |
|------------------------------------------|----|------------------|
| Brakes -                                 |    |                  |
| Front (min. friction material thickness) | mm | 6.5 with backing |
| Rear (min. friction material thickness)  | mm | 1.5              |

|                                  |      |           |
|----------------------------------|------|-----------|
| Tyres                            |      |           |
| Saloon                           | Size | 175/70x13 |
| Estate / Van                     | Size | —         |
| Pressure - front / rear - Saloon | bar  | 2.3 / 2.3 |
| - Estate / Van                   | bar  | —         |

|                                    |        |              |
|------------------------------------|--------|--------------|
| Front suspension / wheel alignment |        |              |
| Toe-in (+) / Toe-out (–)           | mm [°] | (-0°10'±10') |
| Camber                             |        | -0°20'±30'   |
| Castor                             |        | 4°±30'       |
| King pin inclination               |        | 13°21'±30'   |

|                                   |        |              |
|-----------------------------------|--------|--------------|
| Rear suspension / wheel alignment |        |              |
| Toe-in (+) / Toe-out (–)          | mm [°] | (+0°50'±20') |
| Camber                            |        | -1°±15'      |

Torque wrench settings

Megane 1.6 Coupé (DAOF)

1996 to 1997

|                         |    |                             |
|-------------------------|----|-----------------------------|
| Cylinder head - stage 1 | Nm | 20 oiled                    |
| - stage 2               | Nm | +100°±6° wait 3 mins        |
| Cylinder head - stage 3 | Nm | Slacken 20 +100°±6° in turn |
| - stage 4               | Nm | —                           |
| Big-end bearings        | Nm | 40 to 45                    |
| Main bearings           | Nm | 60 to 67                    |
| Clutch cover            | Nm | 22.5                        |
| Flywheel [driveplate]   | Nm | 50 to 55                    |
| Front hubs              | Nm | 250                         |
| Rear hubs               | Nm | 175                         |
| Wheel nuts / bolts      | Nm | 90                          |
| Spark plugs             | Nm | 25 to 30                    |

Capacities

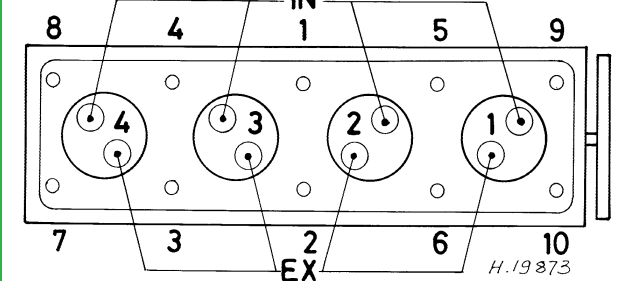
Megane 1.6 Coupé (DAOF)

1996 to 1997

|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 4.0 |
| Gearbox - 4-speed [5-speed]     | litres | 3.4 |
| Automatic transmission - refill | litres | 4.0 |
| Final drive                     | litres | WT  |
| Cooling system                  | litres | 6.0 |
| Fuel tank                       | litres | 60  |

Notes and Illustrations

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1598 cm³