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# Automotive Technical DATA BOOK

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HELP

## Engine and cooling system AX 1.0i CAT 1992 to 1997

|   |                             |           |
|---|-----------------------------|-----------|
| Type  | TU9M/Z (CDZ/CDY) 37kW EEC93 |           |
| Capacity (cm <sup>3</sup> ) / number of cylinders | 954 / 4                     |           |
| Compression ratio / pressure                      | bar                         | 9.4 / _   |
| 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 AX 1.0i CAT 1992 to 1997

|   |                     |             |
|---|---------------------|-------------|
| Idle speed - manual [auto]                            | rpm                 | 850±50 N/A  |
| Fast idle speed - manual [auto]                       | rpm                 | 1300±50 N/A |
| CO @ idle speed [3000 rpm] - see page VI              | %                   | _           |
| HC @ idle speed [3000 rpm] - see page VI              | ppm                 | ≤1200       |
| CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI | %                   | ≥11.0       |
| O <sub>2</sub> @ idle speed [3000 rpm] - see page VI  | %                   | _           |
| Carburettor / fuel injection                          | Bosch               |             |
| Type / ref  | MA3.0 Mono-Motronic |             |
| Main jet / needle                                     | _                   |             |
| Injection pressure                                    | bar                 | 0.9 to 1.1  |
| Pump pressure   | bar                 | 2.5         |
| Octane rating   | RON                 | 95[U]       |

## Ignition system AX 1.0i CAT 1992 to 1997

|                                 |                          |                       |
|---------------------------------|--------------------------|-----------------------|
| Type                            | Static                   |                       |
| Ignition coil                   | 2xValeo. Bosch. 4 output |                       |
| 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       | 6±3 BTDC @ 850±50 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                     | Bosch                    |                       |
| Type                            | FR8LDC                   |                       |
| Electrode gap                   | mm                       | 0.90                  |

## Electrical system AX 1.0i CAT 1992 to 1997

|   |                  |               |
|---|------------------|---------------|
| Battery   | V / CC / RC      | 12 / 150 / 25 |
| Alternator voltage / full load current / engine rpm | 13.5 / 50 / 3650 |               |
| Starter motor current / voltage - cranking          | A / V            | 275/ 12       |
| - locked  | A / V            | 220 / _       |

## Running gear AX 1.0i CAT 1992 to 1997

|  |    |     |
|--|----|-----|
| <b>Brakes -</b>                          |    |     |
| Front (min. friction material thickness) | mm | 2.0 |
| Rear (min. friction material thickness)  | mm | 1.0 |

|                                  |      |           |
|----------------------------------|------|-----------|
| <b>Tyres</b>                     |      |           |
| Saloon                           | Size | 145/70x13 |
| Estate / Van                     | Size | _         |
| Pressure - front / rear - Saloon | bar  | 2.1 / 2.1 |
| - Estate / Van                   | bar  | _         |

## Front suspension / wheel alignment

|                          |           |              |
|--------------------------|-----------|--------------|
| Toe-in (+) / Toe-out (-) | mm [°]    | -0.5 to -3.5 |
| Camber                   | 0±30'     |              |
| Castor                   | +2°15'±1° |              |
| King pin inclination     | +12.58°   |              |

## Rear suspension / wheel alignment

|                          |            |             |
|--------------------------|------------|-------------|
| Toe-in (+) / Toe-out (-) | mm [°]     | +1.8 to 5.4 |
| Camber                   | -1°15'±20' |             |

## Torque wrench settings AX 1.0i CAT 1992 to 1997

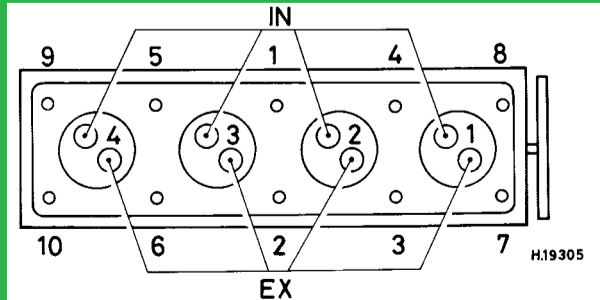
|                         |    |          |
|-------------------------|----|----------|
| Cylinder head - stage 1 | Nm | 20       |
| - stage 2               | Nm | + 240°   |
| Cylinder head - stage 3 | Nm | _        |
| - stage 4               | Nm | _        |
| Big-end bearings        | Nm | 40       |
| Main bearings           | Nm | 20 + 45° |
| Clutch cover            | Nm | 13       |
| Flywheel [driveplate]   | Nm | 65 LkC   |
| Front hubs              | Nm | 250      |
| Rear hubs               | Nm | 140      |
| Wheel nuts / bolts      | Nm | 90       |
| Spark plugs             | Nm | 25       |

## Capacities AX 1.0i CAT 1992 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 | 4.8 |
| Fuel tank                       | litres | 43  |

## Notes and Illustrations

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954 cm<sup>3</sup>