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# Automotive Technical DATA BOOK

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HELP

## Engine and cooling system 740, 2.3i CAT 1989 to 1992

|   |                      |                       |
|---|----------------------|-----------------------|
| Type  | B230F. SOHC 8V. 85kW |                       |
| Capacity (cm <sup>3</sup> ) / number of cylinders | 2316 / 4             |                       |
| Compression ratio / pressure                      | bar                  | 9.8 / ≥8.8            |
| Oil pressure                                      | bar                  | [2.5 to 8.0]          |
| Oil temperature                                   | °C                   | 80                    |
| Valve clearance - inlet                           | mm                   | 0.30 to 0.40          |
| - exhaust   | mm                   | 0.30 to 0.40          |
| Firing order                                      | 1-3-4-2              |                       |
| No 1 cylinder position                            | TBE                  |                       |
| Thermostat opening temperature                    | °C                   | 87 to 97 or 92 to 102 |
| Radiator cap pressure                             | bar                  | 1.5                   |

## Fuel system 740, 2.3i CAT 1989 to 1992

|   |                         |             |
|---|-------------------------|-------------|
| Idle speed - manual [auto]                            | rpm                     | 775±50      |
| Fast idle speed - manual [auto]                       | rpm                     | —           |
| CO @ idle speed [3000 rpm] - see page VI              | %                       | 0.6±0.2 N/A |
| HC @ idle speed [3000 rpm] - see page VI              | ppm                     | ≤200        |
| CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI | %                       | —           |
| O <sub>2</sub> @ idle speed [3000 rpm] - see page VI  | %                       | —           |
| Carburettor / fuel injection                          | Bosch <sup>1</sup>      |             |
| Type / ref  | LH2.4-Jetronic / Regina |             |
| Main jet / needle                                     | —                       |             |
| Injection pressure                                    | bar                     | —           |
| Pump pressure   | bar                     | 1.9 to 3.0  |
| Octane rating   | RON                     | 95[U]       |

## Ignition system 740, 2.3i CAT 1989 to 1992

|                                 |                      |                               |
|---------------------------------|----------------------|-------------------------------|
| Type                            | EZ 116K <sup>2</sup> |                               |
| Ignition coil                   | Bosch. Bendix        |                               |
| Primary resistance              | ohms                 | 0.6 to 0.9. Rex-1: 0.5 to 0.6 |
| 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   | 12 BTDC @ 775±50. Rex-1: 10°  |
| 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/Champion       |                               |
| Type                            | WR7DC / RN9YC        |                               |
| Electrode gap                   | mm                   | 0.70 to 0.80                  |

## Electrical system 740, 2.3i CAT 1989 to 1992

|   |                         |                                      |
|---|-------------------------|--------------------------------------|
| Battery   | V / CC / RC             | 12 / 450 / 90. 91 ▶: Various         |
| Alternator voltage / full load current / engine rpm | 13.8 to 14.6 / _ / 3000 |                                      |
| Starter motor current / voltage - cranking          | A / V                   | 1.1kW: 70 / 11.5 <sup>3</sup>        |
| - locked  | A / V                   | 1.1kW: 480 to 560 / 7.4 <sup>4</sup> |

## Running gear 740, 2.3i CAT 1989 to 1992

|  |    |     |
|--|----|-----|
| <b>Brakes -</b>                          |    |     |
| Front (min. friction material thickness) | mm | 3.0 |
| Rear (min. friction material thickness)  | mm | 2.0 |

|                                  |      |           |
|----------------------------------|------|-----------|
| <b>Tyres</b>                     |      |           |
| Saloon                           | Size | 185/65x15 |
| Estate / Van                     | Size | 185/65x15 |
| Pressure - front / rear - Saloon | bar  | 1.9 / 1.9 |
| - Estate / Van                   | bar  | 1.9 / 2.1 |

## Front suspension / wheel alignment

|                          |                |          |
|--------------------------|----------------|----------|
| Toe-in (+) / Toe-out (-) | mm [°]         | +3.5±1.0 |
| Camber                   | -0.2° to +0.8° |          |
| Castor                   | +4.5° to 5.5°  |          |
| King pin inclination     | —              |          |

## Rear suspension / wheel alignment

|                          |        |          |
|--------------------------|--------|----------|
| Toe-in (+) / Toe-out (-) | mm [°] | +2.0±3.0 |
| Camber                   | WSM    |          |

## Torque wrench settings 740, 2.3i CAT 1989 to 1992

|                         |    |           |
|-------------------------|----|-----------|
| Cylinder head - stage 1 | Nm | 20        |
| - stage 2               | Nm | 60        |
| - stage 3               | Nm | + 90°     |
| - stage 4               | Nm | —         |
| Big-end bearings        | Nm | 20 + 90°  |
| Main bearings           | Nm | 110       |
| Clutch cover            | Nm | —         |
| Flywheel [driveplate]   | Nm | 70 N      |
| Front hubs              | Nm | 100 + 45° |
| Rear hubs               | Nm | WSM       |
| Wheel nuts / bolts      | Nm | 85        |
| Spark plugs             | Nm | 25        |

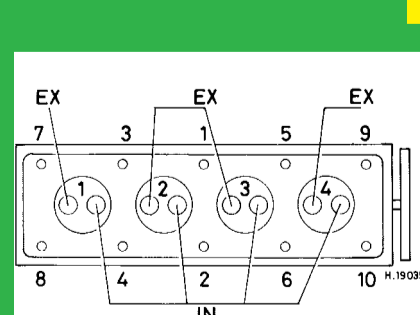
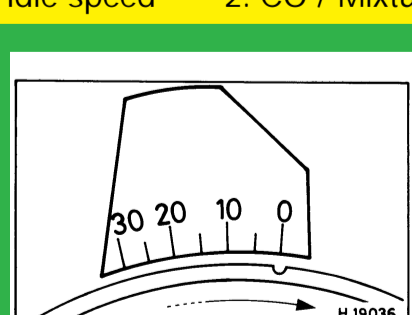
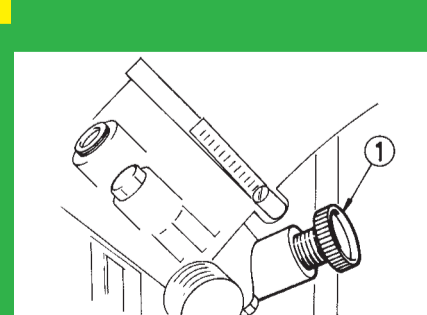
## Capacities 740, 2.3i CAT 1989 to 1992

|                                 |        |      |
|---------------------------------|--------|------|
| Engine oil & filter             | litres | 3.85 |
| Gearbox - 4-speed [5-speed]     | litres | 1.6  |
| Automatic transmission - refill | litres | 2.0  |
| Final drive                     | litres | 1.6  |
| Cooling system                  | litres | 8.5  |
| Fuel tank                       | litres | 60   |

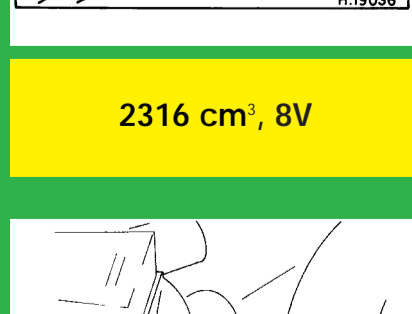
## Notes and Illustrations

<sup>1</sup>or Bendix<sup>2</sup>or Rex-1<sup>3</sup>1.4kW: 75 / 11.5. 2kW: 65 to 95 / 11.5. Hitachi: 300 / 8.8<sup>4</sup>1.4kW: 625 to 800 / 4.5. 2kW: 700 to 880 / 4.5. Hitachi: 880 / 3

1: Idle speed 2: CO / Mixture

2316 cm<sup>3</sup>, 8V2316 cm<sup>3</sup>, 8V

LH2.4-Jetronic



LH2.4-Jetronic