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# Automotive Technical DATA BOOK

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HELP

## Engine and cooling system 940, 2.3i DOHC 1990 to 1992

|   |     |                       |
|---|-----|-----------------------|
| Type  |     | B234F DOHC 16V. 114kW |
| Capacity (cm <sup>3</sup> ) / number of cylinders |     | 2316 / 4              |
| Compression ratio / pressure                      | bar | 10.0 / ≥8.8           |
| Oil pressure                                      | bar | [2.5 to 8.0]          |
| Oil temperature                                   | °C  | 80                    |
| Valve clearance - inlet                           | mm  | 0: Hyd.               |
| - exhaust   | mm  | 0: Hyd.               |
| 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 940, 2.3i DOHC 1990 to 1992

|   |     |                |
|---|-----|----------------|
| Idle speed - manual [auto]                            | rpm | 850±50 N/A     |
| Fast idle speed - manual [auto]                       | rpm | —              |
| 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 | %   | —              |
| O <sub>2</sub> @ idle speed [3000 rpm] - see page VI  | %   | —              |
| Carburettor / fuel injection                          |     | Bosch          |
| Type / ref  |     | LH2.4-Jetronic |
| Main jet / needle                                     |     | —              |
| Injection pressure                                    | bar | —              |
| Pump pressure   | bar | 1.9 to 3.0     |
| Octane rating   | RON | 95[U]          |

## Ignition system 940, 2.3i DOHC 1990 to 1992

|                                 |                    |                      |
|---------------------------------|--------------------|----------------------|
| Type                            |                    | EZ 116K              |
| Ignition coil                   |                    | Bosch                |
| Primary resistance              | ohms               | 0.6 to 0.9           |
| 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 | 15 BTDC @ 850±50 N/A |
| V = Vacuum NV = No Vacuum       |                    | NV                   |
| Total ignition advance          | ° Crankshaft @ rpm | 27 to 31 @ 2500      |
|                                 | ° 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                            |                    | WR6DC / RN7YC        |
| Electrode gap                   | mm                 | 0.70 to 0.80         |

## Electrical system 940, 2.3i DOHC 1990 to 1992

|   |             |                                      |
|---|-------------|--------------------------------------|
| Battery   | V / CC / RC | 12 / 450 / 90                        |
| 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>1</sup>        |
| - locked  | A / V       | 1.1kW: 480 to 560 / 7.4 <sup>2</sup> |

## Running gear 940, 2.3i DOHC 1990 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 [°] | [+18'±8'] |
| Camber                   |        | 0.1°±1°   |
| Castor                   |        | +5°±1°    |
| King pin inclination     |        | —         |

## Rear suspension / wheel alignment

|                          |        |   |
|--------------------------|--------|---|
| Toe-in (+) / Toe-out (-) | mm [°] | — |
| Camber                   |        | — |

## Torque wrench settings 940, 2.3i DOHC 1990 to 1992

|                         |    |           |
|-------------------------|----|-----------|
| Cylinder head - stage 1 | Nm | 20        |
| - stage 2               | Nm | 40        |
| - stage 3               | Nm | + 115°    |
| - 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 940, 2.3i DOHC 1990 to 1992

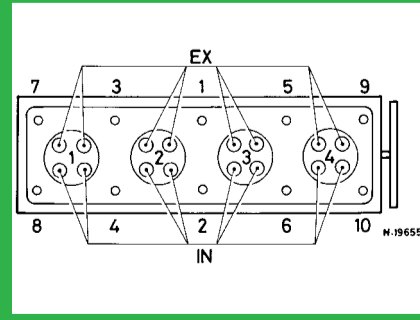
|                                 |        |                        |
|---------------------------------|--------|------------------------|
| Engine oil & filter             | litres | 3.85                   |
| Gearbox - 4-speed [5-speed]     | litres | 2.3                    |
| Automatic transmission - refill | litres | 3.9                    |
| Final drive                     | litres | 1031: 1.75. 1041: 1.45 |
| Cooling system                  | litres | 9.5                    |
| Fuel tank                       | litres | 60                     |

## Notes and Illustrations

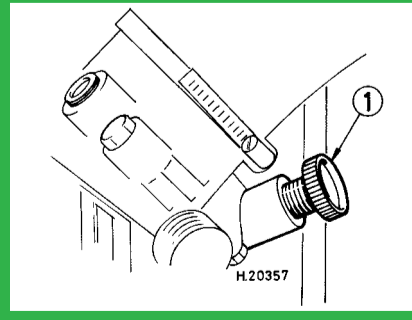
<sup>1</sup>1.4kW: 75 / 11.5. 2kW: 65 to 95 / 11.5. Hitachi: 300 / 8.8

<sup>2</sup>1.4kW: 625 to 800 / 4.5. 2kW: 700 to 880 / 4.5. Hitachi: 880 / 3

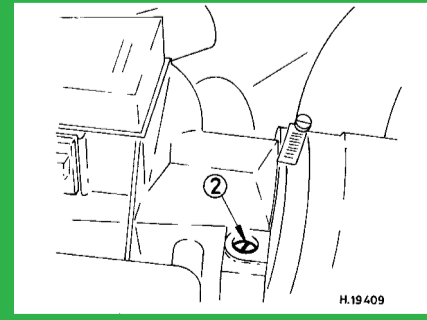
1: Idle speed 2: CO / Mixture



2316 cm<sup>3</sup>, 16V



LH2.4-Jetronic



LH2.4-Jetronic