

Engine & Cooling

Fuel

Ignition

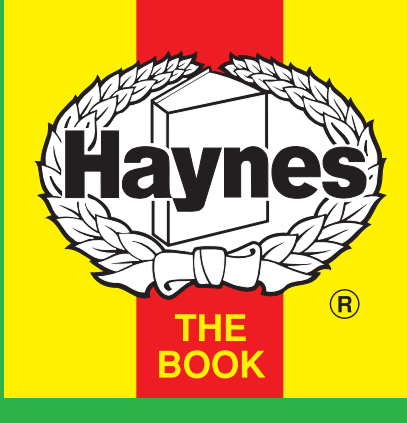
Electrical

Running gear

Torque settings

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Notes & Illustrations



Automotive Technical  
**DATA BOOK**

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

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HELP

Engine and cooling system100, 200 & Avant, 2.2i1984 to 1991

|                                                   |     |                           |
|---------------------------------------------------|-----|---------------------------|
| Type                                              |     | KU (101kW) SOHC           |
| Capacity (cm <sup>3</sup> ) / number of cylinders |     | 2226 / 5                  |
| Compression ratio / pressure                      | bar | 10.0 / ≥9.0               |
| Oil pressure                                      | bar | [2.0]                     |
| Oil temperature                                   | °C  | 80                        |
| Valve clearance - inlet                           | mm  | 0.20 to 0.30 <sup>1</sup> |
| Valve clearance - exhaust                         | mm  | 0.40 to 0.50 <sup>1</sup> |
| Firing order                                      |     | 1-2-4-5-3                 |
| No 1 cylinder position                            |     | TBE                       |
| Thermostat opening temperature                    | °C  | 87                        |
| Radiator cap pressure                             | bar | 1.2 to 1.5                |

Fuel system100, 200 & Avant, 2.2i1984 to 1991

|                                                       |     |                           |
|-------------------------------------------------------|-----|---------------------------|
| Idle speed - manual [auto]                            | rpm | 800±50                    |
| Fast idle speed - manual [auto]                       | rpm | —                         |
| CO @ idle speed [3000 rpm] - see page VI              | %   | ≤0.5                      |
| 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                     |
| Type / ref                                            |     | K-Jetronic                |
| Main jet / needle                                     |     | —                         |
| Injection pressure                                    | bar | 3.0 to 4.1 <sup>2</sup>   |
| Pump pressure                                         | bar | 4.7 to 5.4 <sup>3</sup>   |
| Octane rating                                         | RON | 98[E 98 RON] <sup>4</sup> |

Ignition system100, 200 & Avant, 2.2i1984 to 1991

|                                 |                    |                                 |
|---------------------------------|--------------------|---------------------------------|
| Type                            |                    | TCI-H                           |
| Ignition coil                   |                    | Bosch                           |
| Primary resistance              | ohms               | 0.52 to 0.76                    |
| Ballast resistor                | ohms               | —                               |
| Voltage - Tmnl 15(+) to earth   | V                  | —                               |
| Distributor                     |                    | Bosch                           |
| Points gap (air gap)            | mm                 | —                               |
| Dwell angle                     | ° (%)              | N/A                             |
| Condenser capacity              | µF                 | —                               |
| Rotation                        |                    | Clockwise                       |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 18±1 BTDC @ 800±50 <sup>4</sup> |
| V = Vacuum NV = No Vacuum       |                    | V                               |
| Total ignition advance          | ° Crankshaft @ rpm | —                               |
|                                 | ° Crankshaft @ rpm | —                               |
|                                 | ° Crankshaft @ rpm | —                               |
| Centrifugal check.              | ° Crankshaft @ rpm | 3 to 8 @ 2200                   |
|                                 | ° Crankshaft @ rpm | 6 to 10 @ 3900                  |
|                                 | ° Crankshaft @ rpm | 12 to 16 @ 6100                 |
| Vacuum range check              | mbar               | 100 to 400                      |
| Maximum vacuum advance          | ° Crankshaft       | 13 to 16                        |
| Spark plugs                     |                    | Bosch/Champion                  |
| Type                            |                    | W7DTC / N7YCX                   |
| Electrode gap                   | mm                 | 0.70 to 0.90                    |

Electrical system100, 200 & Avant, 2.2i1984 to 1991

|                                                     |             |                         |
|-----------------------------------------------------|-------------|-------------------------|
| Battery                                             | V / CC / RC | 12 / 45Ah               |
| Alternator voltage / full load current / engine rpm |             | 12.5 to 14.5 / _ / 3000 |
| Starter motor current / voltage - cranking          | A / V       | —                       |
| - locked                                            | A / V       | —                       |

Running gear100, 200 & Avant, 2.2i1984 to 1991

|                                          |    |                  |
|------------------------------------------|----|------------------|
| Brakes -                                 |    |                  |
| Front (min. friction material thickness) | mm | 7.0 with backing |
| Rear (min. friction material thickness)  | mm | 7.0 with backing |

|                                  |      |                      |
|----------------------------------|------|----------------------|
| Tyres                            |      |                      |
| Saloon                           | Size | 185/70x14: 205/60x15 |
| Estate / Van                     | Size | 185/70x14: 205/60x15 |
| Pressure - front / rear - Saloon | bar  | 2.1 / 1.9            |
| - Estate / Van                   | bar  | 2.1 / 1.9            |

|                                    |        |                               |
|------------------------------------|--------|-------------------------------|
| Front suspension / wheel alignment |        |                               |
| Toe-in (+) / Toe-out (–)           | mm [°] | [0+5' -10']. 4x4: +5'+5' -10' |
| Camber                             |        | -30'±30'                      |
| Castor                             |        | +50'±40'                      |
| King pin inclination               |        | —                             |

|                                   |        |                                          |
|-----------------------------------|--------|------------------------------------------|
| Rear suspension / wheel alignment |        |                                          |
| Toe-in (+) / Toe-out (–)          | mm [°] | [+10'±5']. 4x4: [+10'±10']               |
| Camber                            |        | -40'±30'. 1.88 ►: -50'±30' <sup>15</sup> |

Torque wrench settings100, 200 & Avant, 2.2i1984 to 1991

|                         |    |                                   |
|-------------------------|----|-----------------------------------|
| 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 | 50 <sup>6</sup>                   |
| Main bearings           | Nm | 65                                |
| Clutch cover            | Nm | 25                                |
| Flywheel [driveplate]   | Nm | Without shoulder: 75 <sup>7</sup> |
| Front hubs              | Nm | MT 1988 ►: 200 + 90°              |
| Rear hubs               | Nm | WSM <sup>8</sup>                  |
| Wheel nuts / bolts      | Nm | 110                               |
| Spark plugs             | Nm | 20                                |

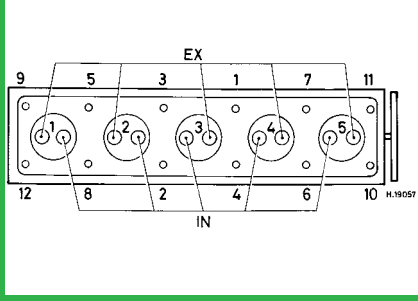
Capacities100, 200 & Avant, 2.2i1984 to 1991

|                                 |        |                       |
|---------------------------------|--------|-----------------------|
| Engine oil & filter             | litres | 4.5                   |
| Gearbox - 4-speed [5-speed]     | litres | 2.6. 4x4 <sup>9</sup> |
| Automatic transmission - refill | litres | 3.0                   |
| Final drive                     | litres | AT: 1.0. 4x4: 1.6     |
| Cooling system                  | litres | 8.0                   |
| Fuel tank                       | litres | 80                    |

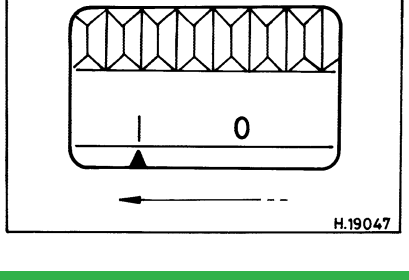
Notes and Illustrations

- <sup>1</sup>8.85 ►: 0: Hydraulic adjusters
- <sup>2</sup>7.86 ►: 4.3 to 4.6
- <sup>3</sup>7.86 ►: 5.6 to 6.0
- <sup>4</sup>[E 95 RON], 10-2 BTDC @ 800±50
- <sup>5</sup>4x4: -15'±15'
- <sup>6</sup>85 ►: 30 + 90°
- <sup>7</sup>With shoulder: 30 + 90°
- <sup>8</sup>4x4: 360. 88 ►: 200 + 90°
- <sup>9</sup>4x4 ►7.85: 3.2. ►1.88: 2.2.1.88 ►: 2.9

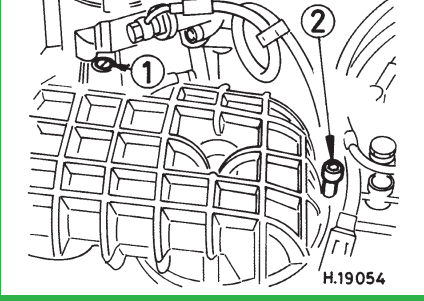
1: Idle speed2: CO / Mixture



2226 cm<sup>3</sup>, SOHC 10V



2226 cm<sup>3</sup>, SOHC 10V



K-Jetronic