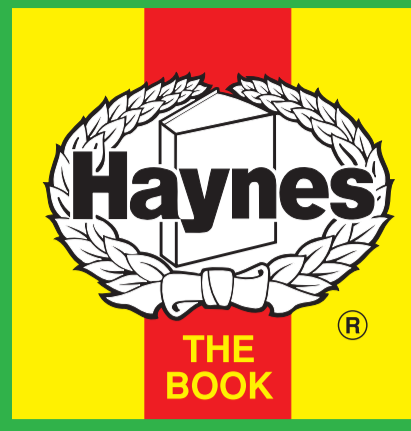


|                  |      |          |            |              |                 |            |                       |
|------------------|------|----------|------------|--------------|-----------------|------------|-----------------------|
| Engine & Cooling | Fuel | Ignition | Electrical | Running gear | Torque settings | Capacities | Notes & Illustrations |
|------------------|------|----------|------------|--------------|-----------------|------------|-----------------------|



# Automotive Technical DATA BOOK

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HELP

## Engine and cooling system 240, 2.3i 1985 to 1988

|   |                      |                      |
|---|----------------------|----------------------|
| Type  | B230E. SOHC 8V. 92kW |                      |
| Capacity (cm <sup>3</sup> ) / number of cylinders | 2316 / 4             |                      |
| Compression ratio / pressure                      | bar                  | 10.3 / ≥9.2          |
| Oil pressure                                      | bar                  | 1.0 [2.5 to 8.0]     |
| Oil temperature                                   | °C                   | 80                   |
| Valve clearance - inlet                           | mm                   | 0.30 to 0.40 H       |
| - exhaust   | mm                   | 0.30 to 0.40 H       |
| Firing order                                      | 1-3-4-2              |                      |
| No 1 cylinder position                            | TBE                  |                      |
| Thermostat opening temperature                    | °C                   | 86 to 88 or 91 to 93 |
| Radiator cap pressure                             | bar                  | 0.66 to 0.87         |

## Fuel system 240, 2.3i 1985 to 1988

|   |                  |                           |
|---|------------------|---------------------------|
| Idle speed - manual [auto]                            | rpm              | 900                       |
| Fast idle speed - manual [auto]                       | rpm              | —                         |
| CO @ idle speed [3000 rpm] - see page VI              | %                | 0.5 to 2.0                |
| 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  | CIS (K-Jetronic) |                           |
| Main jet / needle                                     | —                |                           |
| Injection pressure                                    | bar              | 3.5 to 4.0                |
| Pump pressure   | bar              | 4.6 to 5.4                |
| Octane rating   | RON              | 98[E 98 RON] <sup>1</sup> |

## Ignition system 240, 2.3i 1985 to 1988

|                                 |                           |                   |
|---------------------------------|---------------------------|-------------------|
| Type                            | TZ 28H                    |                   |
| Ignition coil                   | Bosch                     |                   |
| Primary resistance              | ohms                      | 0.6 to 0.8        |
| 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        | 10 BTDC @ 750±50  |
| V = Vacuum NV = No Vacuum       | NV                        |                   |
| Total ignition advance          | ° Crankshaft @ rpm        | 24 to 28 @ 2500   |
|                                 | ° Crankshaft @ rpm        | —                 |
|                                 | ° Crankshaft @ rpm        | —                 |
| Centrifugal check.              | ° Crankshaft @ rpm        | 20 @ 1680 to 2100 |
|                                 | ° Crankshaft @ rpm        | 30 @ 3000 to 4200 |
|                                 | ° Crankshaft @ rpm        | 35±2 @ 5000       |
| Vacuum range check              | mbar                      | 140 to 307        |
| Maximum vacuum advance          | ° Crankshaft              | 25±2              |
| Spark plugs                     | Bosch/Champion            |                   |
| Type                            | W6DC (88 ▶: WR6DC) / N7YC |                   |
| Electrode gap                   | mm                        | 0.70 to 0.80      |

## Electrical system 240, 2.3i 1985 to 1988

|   |             |               |
|---|-------------|---------------|
| Battery   | V / CC / RC | 12 / 450 / 90 |
| Alternator voltage / full load current / engine rpm | Various     |               |
| Starter motor current / voltage - cranking          | A / V       | Various       |
| - locked  | A / V       | Various       |

## Running gear 240, 2.3i 1985 to 1988

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

## Tyres

|                                  |      |                              |
|----------------------------------|------|------------------------------|
| Saloon                           | Size | 175x14: 185/70x14: 195/60x15 |
| Estate / Van                     | Size | 185x14: 195/60x15            |
| Pressure - front / rear - Saloon | bar  | 1.8 / 1.9                    |
| - Estate / Van                   | bar  | 1.9 / 2.1. 195/60: 1.8 / 2.1 |

## Front suspension / wheel alignment

|                          |                          |                          |
|--------------------------|--------------------------|--------------------------|
| Toe-in (+) / Toe-out (-) | mm [°]                   | [+24'±8'] PAS: [+16'±8'] |
| Camber                   | +15' to 1°               |                          |
| Castor                   | +2° to 3° PAS: +3° to 4° |                          |
| King pin inclination     | —                        |                          |

## Rear suspension / wheel alignment

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

## Torque wrench settings 240, 2.3i 1985 to 1988

|                         |    |                   |
|-------------------------|----|-------------------|
| 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 | 68, - 120° & lock |
| Rear hubs               | Nm | WSM               |
| Wheel nuts / bolts      | Nm | 115               |
| Spark plugs             | Nm | 20 to 30          |

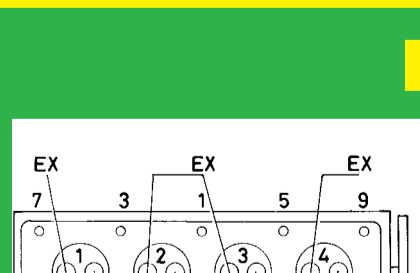
## Capacities 240, 2.3i 1985 to 1988

|                                 |        |                               |
|---------------------------------|--------|-------------------------------|
| Engine oil & filter             | litres | 3.85                          |
| Gearbox - 4-speed [5-speed]     | litres | M45: 0.75. M46: 2.3. M47: 1.6 |
| Automatic transmission - refill | litres | BW: 3.5. AW: 3.9              |
| Final drive                     | litres | 1030: 1.3. 1031: 1.6          |
| Cooling system                  | litres | 9.5. 88 ▶: 8.5                |
| Fuel tank                       | litres | 60                            |

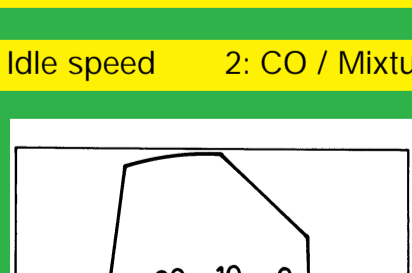
## Notes and Illustrations

<sup>1</sup>87 ▶: [E 95 RON]

1: Idle speed 2: CO / Mixture



2316 cm<sup>3</sup>



2316 cm<sup>3</sup>



K-Jetronic