

Engine & Cooling

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Automotive Technical  
**DATA BOOK**

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HELP

Engine and cooling system9000 Turbo 161985 to 1993

|                                      |     |                           |
|--------------------------------------|-----|---------------------------|
| Type                                 |     | B202 DOHC 16V turbo 129kW |
| Capacity (cm³) / number of cylinders |     | 1985 / 4                  |
| Compression ratio / pressure         | bar | 9.0 / _                   |
| Oil pressure                         | bar | [2.7]                     |
| Oil temperature                      | °C  | 80                        |
| Valve clearance - inlet              | mm  | 0: Hyd.                   |
| - exhaust                            | mm  | 0: Hyd.                   |
| Firing order                         |     | 1-3-4-2                   |
| No 1 cylinder position               |     | TCE                       |
| Thermostat opening temperature       | °C  | 89±2                      |
| Radiator cap pressure                | bar | 0.9 to 1.2                |

Fuel system9000 Turbo 161985 to 1993

|                                           |     |                             |
|-------------------------------------------|-----|-----------------------------|
| Idle speed - manual [auto]                | rpm | 850±75                      |
| Fast idle speed - manual [auto]           | rpm | _                           |
| CO @ idle speed [3000 rpm] - see page VI  | %   | 0.9 to 1.6                  |
| HC @ idle speed [3000 rpm] - see page VI  | ppm | ≤1200                       |
| CO2 @ idle speed [3000 rpm] - see page VI | %   | _                           |
| O2 @ idle speed [3000 rpm] - see page VI  | %   | _                           |
| Carburettor / fuel injection              |     | Bosch                       |
| Type / ref                                |     | LH2.2-Jetronic. 91 ►: 2.4.2 |
| Main jet / needle                         |     | _                           |
| Injection pressure                        | bar | 2.5±0.15: 87 ►: 2.8         |
| Pump pressure                             | bar | _                           |
| Octane rating                             | RON | 91[E] <sup>1</sup>          |

Ignition system9000 Turbo 161985 to 1993

|                                 |                    |                          |
|---------------------------------|--------------------|--------------------------|
| Type                            |                    | Electronic - Hall effect |
| 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                     | ° (%)              | _                        |
| Condenser capacity              | µF                 | _                        |
| Rotation                        |                    | Anticlockwise            |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 16 BTDC @ 850            |
| V = Vacuum NV = No Vacuum       |                    | NV                       |
| 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                     |                    | NGK/Champion             |
| Type                            |                    | BCP7EV / C7GY            |
| Electrode gap                   | mm                 | 0.60 to 0.70             |

Electrical system9000 Turbo 161985 to 1993

|                                                     |             |                             |
|-----------------------------------------------------|-------------|-----------------------------|
| Battery                                             | V / CC / RC | 12 / 60Ah                   |
| Alternator voltage / full load current / engine rpm |             | 14.0 to 14.5 /70, 80 / 2500 |
| Starter motor current / voltage - cranking          | A / V       | 315 / 9.0                   |
| - locked                                            | A / V       | 650 to 750 / 4.0            |

Running gear9000 Turbo 161985 to 1993

|                                          |    |     |
|------------------------------------------|----|-----|
| Brakes -                                 |    |     |
| Front (min. friction material thickness) | mm | 4.0 |
| Rear (min. friction material thickness)  | mm | 4.0 |

|                                  |      |                               |
|----------------------------------|------|-------------------------------|
| Tyres                            |      |                               |
| Saloon                           | Size | 205/55x15:195/65x15:195/60x15 |
| Estate / Van                     | Size | _                             |
| Pressure - front / rear - Saloon | bar  | WSM                           |
| - Estate / Van                   | bar  | _                             |

|                                    |        |             |
|------------------------------------|--------|-------------|
| Front suspension / wheel alignment |        |             |
| Toe-in (+) / Toe-out (-)           | mm [°] | +1.5±0.5    |
| Camber                             |        | -0.65°±0.5° |
| Castor                             |        | +1.65°±0.5° |
| King pin inclination               |        | +11.3°±0.5° |

|                                   |        |              |
|-----------------------------------|--------|--------------|
| Rear suspension / wheel alignment |        |              |
| Toe-in (+) / Toe-out (-)          | mm [°] | +2.5±1.5     |
| Camber                            |        | -0.25°±0.25° |

Torque wrench settings9000 Turbo 161985 to 1993

|                         |    |                 |
|-------------------------|----|-----------------|
| Cylinder head - stage 1 | Nm | 60              |
| - stage 2               | Nm | 80              |
| - stage 3               | Nm | +90°            |
| - stage 4               | Nm | _               |
| Big-end bearings        | Nm | 55              |
| Main bearings           | Nm | 110             |
| Clutch cover            | Nm | 22±2            |
| Flywheel [driveplate]   | Nm | 60 <sup>1</sup> |
| Front hubs              | Nm | 270 to 290      |
| Rear hubs               | Nm | 270 to 290      |
| Wheel nuts / bolts      | Nm | 90 to 110       |
| Spark plugs             | Nm | 25 to 29        |

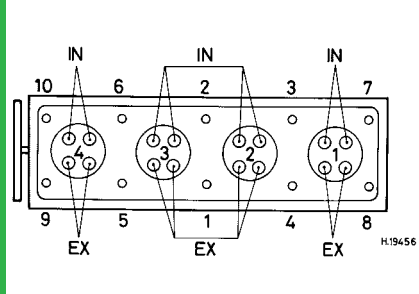
Capacities9000 Turbo 161985 to 1993

|                                 |        |            |
|---------------------------------|--------|------------|
| Engine oil & filter             | litres | 4.2        |
| Gearbox - 4-speed [5-speed]     | litres | 2.5        |
| Automatic transmission - refill | litres | 3.0 to 3.5 |
| Final drive                     | litres | WT         |
| Cooling system                  | litres | 9.0        |
| Fuel tank                       | litres | 68         |

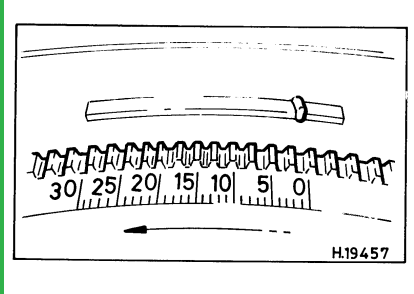
Notes and Illustrations

<sup>1</sup>19mm head bolts: 85

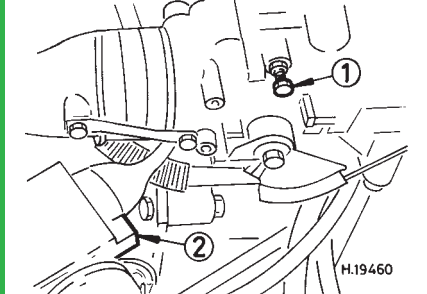
1: Idle speed      2: CO / Mixture



1985 cm³, 16V



1985 cm³, 16V



LH2.2 / 2.4-Jetronic