

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

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.

MENU

HELP

| Engine and cooling system            |     | E200 (124.019/079)     | 1992 to 1996 |
|--------------------------------------|-----|------------------------|--------------|
| Type                                 |     | 111.940 DOHC 16V 100kW |              |
| Capacity (cm³) / number of cylinders |     | 1998 / 4               |              |
| Compression ratio / pressure         | bar | 9.6 / ≥10.5            |              |
| Oil pressure                         | bar | 0.3 [3.0]              |              |
| Oil temperature                      | °C  | 90                     |              |
| Valve clearance - inlet              | mm  | 0: Hyd.                |              |
| Valve clearance - exhaust            | mm  | 0: Hyd.                |              |
| Firing order                         |     | 1-3-4-2                |              |
| No 1 cylinder position               |     | F                      |              |
| Thermostat opening temperature       | °C  | 87±2                   |              |
| Radiator cap pressure                | bar | 1.4±0.1                |              |

| Fuel system                               |     | E200 (124.019/079)       | 1992 to 1996 |
|-------------------------------------------|-----|--------------------------|--------------|
| Idle speed - manual [auto]                | rpm | 700 to 800               |              |
| Fast idle speed - manual [auto]           | rpm | —                        |              |
| CO @ idle speed [3000 rpm] - see page VI  | %   | ≤0.3                     |              |
| HC @ idle speed [3000 rpm] - see page VI  | ppm | ≤200                     |              |
| CO2 @ idle speed [3000 rpm] - see page VI | %   | —                        |              |
| O2 @ idle speed [3000 rpm] - see page VI  | %   | —                        |              |
| Carburettor / fuel injection              |     | Bosch                    |              |
| Type / ref                                |     | PMS electronic injection |              |
| Main jet / needle                         |     | —                        |              |
| Injection pressure                        | bar | —                        |              |
| Pump pressure                             | bar | —                        |              |
| Octane rating                             | RON | 95[U]                    |              |

| Ignition system                 |                    | E200 (124.019/079) | 1992 to 1996 |
|---------------------------------|--------------------|--------------------|--------------|
| Type                            |                    | Computerized       |              |
| Ignition coil                   |                    | Bosch              |              |
| Primary resistance              | ohms               | 0.3 to 0.6         |              |
| Ballast resistor                | ohms               | —                  |              |
| Voltage - Tmnl 15(+) to earth   | V                  | Battery            |              |
| Distributor                     |                    | Bosch              |              |
| Points gap (air gap)            | mm                 | —                  |              |
| Dwell angle                     | ° (%)              | —                  |              |
| Condenser capacity              | µF                 | —                  |              |
| Rotation                        |                    | —                  |              |
| Ignition timing - basic [static | ° Crankshaft @ rpm | Computer control   |              |
| V = Vacuum NV = No Vacuum       |                    | —                  |              |
| Total ignition advance          | ° Crankshaft @ rpm | Computer control   |              |
|                                 | ° 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                            |                    | F8DCO / C10YCC     |              |
| Electrode gap                   | mm                 | 0.80               |              |

| Electrical system                                   |             | E200 (124.019/079)  | 1992 to 1996 |
|-----------------------------------------------------|-------------|---------------------|--------------|
| Battery                                             | V / CC / RC | —                   |              |
| Alternator voltage / full load current / engine rpm |             | 14.0 / 80 / 2490    |              |
| Starter motor current / voltage - cranking          | A / V       | 95 / 11.5 (no load) |              |
| - locked                                            | A / V       | 650 to 840 / 3.8    |              |

| Running gear                             |    | E200 (124.019/079) | 1992 to 1996 |
|------------------------------------------|----|--------------------|--------------|
| Brakes -                                 |    |                    |              |
| Front (min. friction material thickness) | mm | 2.0                |              |
| Rear (min. friction material thickness)  | mm | 2.0                |              |

| Tyres                            |      |           |  |
|----------------------------------|------|-----------|--|
| Saloon                           | Size | 195/65x15 |  |
| Estate / Van                     | Size | 195/65x15 |  |
| Pressure - front / rear - Saloon | bar  | 2.0 / 2.0 |  |
| - Estate / Van                   | bar  | 2.0 / 2.5 |  |

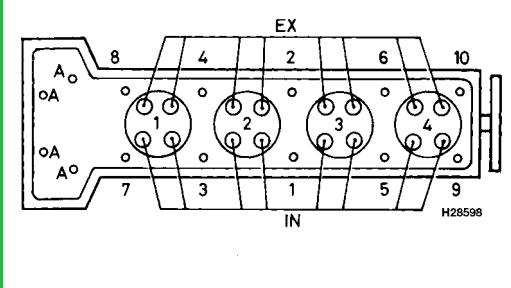
| Front suspension / wheel alignment |        |              |  |
|------------------------------------|--------|--------------|--|
| Toe-in (+) / Toe-out (–)           | mm [°] | [+20'±10']   |  |
| Camber                             |        | -25'+10'-20' |  |
| Castor                             |        | +10°25'±30'  |  |
| King pin inclination               |        | —            |  |

| Rear suspension / wheel alignment |        |               |  |
|-----------------------------------|--------|---------------|--|
| Toe-in (+) / Toe-out (–)          | mm [°] | [+20' to 35'] |  |
| Camber                            |        | -1°30'±30'    |  |

| Torque wrench settings  |    | E200 (124.019/079) | 1992 to 1996 |
|-------------------------|----|--------------------|--------------|
| Cylinder head - stage 1 | Nm | 55                 |              |
| - stage 2               | Nm | + 90°              |              |
| Cylinder head - stage 3 | Nm | + 90°              |              |
| - stage 4               | Nm | —                  |              |
| Big-end bearings        | Nm | 30 + 90 to 100°    |              |
| Main bearings           | Nm | 55 + 90 to 100°    |              |
| Clutch cover            | Nm | 25                 |              |
| Flywheel [driveplate]   | Nm | 30 + 90 to 100°    |              |
| Front hubs              | Nm | WSM                |              |
| Rear hubs               | Nm | 200 to 240         |              |
| Wheel nuts / bolts      | Nm | 110                |              |
| Spark plugs             | Nm | 20                 |              |

| Capacities                      |        | E200 (124.019/079) | 1992 to 1996 |
|---------------------------------|--------|--------------------|--------------|
| Engine oil & filter             | litres | 5.8                |              |
| Gearbox - 4-speed [5-speed]     | litres | 1.5                |              |
| Automatic transmission - refill | litres | 5.5                |              |
| Final drive                     | litres | 1.3                |              |
| Cooling system                  | litres | 8.5                |              |
| Fuel tank                       | litres | 72                 |              |

Notes and Illustrations



1998 cm³, DOHC 16V