

## HELP

## 1996 to 1997

|                                                   |     |              |
|---------------------------------------------------|-----|--------------|
| Capacity (cm <sup>3</sup> ) / number of cylinders |     | 2793 / 6     |
| Compression ratio / pressure                      | bar | 10.2 / ≥10.0 |
| Oil pressure                                      | bar | ≥0.5 / 4.0   |
| Oil temperature                                   | °C  | 80           |
| Valve clearance - inlet                           | mm  | 0: Hyd.      |
| Valve clearance - exhaust                         | mm  | 0: Hyd.      |
| Firing order                                      |     | 1-5-3-6-2-4  |
| No 1 cylinder position                            |     | —            |
| Thermostat opening temperature                    | °C  | 92           |
| Radiator cap pressure                             | bar |              |

## 1000 - 1005

|                                                       |     |                      |
|-------------------------------------------------------|-----|----------------------|
| Idle speed - manual [auto]                            | rpm | 750±50               |
| 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                 |
| 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                                            |     | DME Motronic MS 41.0 |
| Main jet / needle                                     |     | —                    |
| Injection pressure                                    | bar | —                    |
| Pump pressure                                         | bar | 3.5                  |
| Octane rating                                         | RON | 95[11]               |

| Type                            |                    | Direct electronic |
|---------------------------------|--------------------|-------------------|
| Ignition coil                   |                    | —                 |
| Primary resistance              | ohms               | 0.37 to 0.5       |
| Ballast resistor                | ohms               | —                 |
| Voltage - Tmnl 15(+) to earth   | V                  | —                 |
| Distributor                     |                    | —                 |
| Points gap (air gap)            | mm                 | —                 |
| Dwell angle                     | ° (%)              | —                 |
| Condenser capacity              | μF                 | —                 |
| Rotation                        |                    | —                 |
| Ignition timing - basic [static | ° Crankshaft @ rpm | —                 |
| V = Vacuum NV = No Vacuum       |                    | —                 |
| Total ignition advance          | ° Crankshaft @ rpm | —                 |
|                                 | ° Crankshaft @ rpm | —                 |
|                                 | ° Crankshaft @ rpm | —                 |
| Centrifugal check.              | ° Crankshaft @ rpm | —                 |
|                                 | ° Crankshaft @ rpm | —                 |
|                                 | ° Crankshaft @ rpm | —                 |
| Vacuum range check              | mbar               | —                 |
| Maximum vacuum advance          | ° Crankshaft       | —                 |
| Spark plugs                     |                    | Bosch             |
| Type                            |                    | F7LDCR            |
| Electrode gap                   | mm                 | 0.7               |

| Electrical system                                   |             | 520i E30      | 1990 to 1997 |
|-----------------------------------------------------|-------------|---------------|--------------|
| Battery                                             | V / CC / RC | 12 / 65Ah     |              |
| Alternator voltage / full load current / engine rpm |             | 14.3 / 80 / _ |              |
| Starter motor current / voltage - cranking          | A / V       | _             |              |

# Runni

|                                          |    |     |
|------------------------------------------|----|-----|
| Brakes -                                 |    |     |
| Front (min. friction material thickness) | mm | 3.0 |

## Tyres

|        |      |           |
|--------|------|-----------|
| Saloon | Size | 205/60x15 |
|--------|------|-----------|

|                                  |      |                  |
|----------------------------------|------|------------------|
| Estate / Van                     | Size | —                |
| Pressure - front / rear - Saloon | bar  | Refer to vehicle |

- Estate / Van 1 bar

### Front suspension / wheel alignment

|                                    |        |            |
|------------------------------------|--------|------------|
| Front suspension / wheel alignment |        |            |
| Toe-in (+) / Toe-out (-)           | mm [°] | [0°18'±8'] |
| Camber                             |        | -0°30'±30' |
| Castor                             |        | 3°52'±30'  |

## King pin inclination

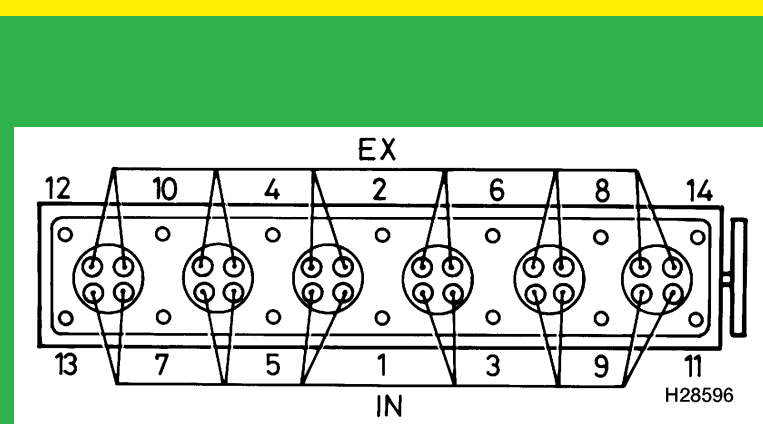
|                          |        |            |
|--------------------------|--------|------------|
| Toe-in (+) / Toe-out (-) | mm [°] | [0°24'±6'] |
|                          |        | 10°10'±15' |

|        |            |
|--------|------------|
| Camber | -1°40'±15' |
|--------|------------|

|                         |    |           |
|-------------------------|----|-----------|
| Cylinder head - stage 1 | Nm | 40        |
| - stage 2               | Nm | +90°      |
| Cylinder head - stage 3 | Nm | +90°      |
| - stage 4               | Nm | –         |
| Big-end bearings        | Nm | 5, 20+70° |
| Main bearings           | Nm | 20+70°    |
| Clutch cover            | Nm | 24        |
| Flywheel [driveplate]   | Nm | 105       |
| Front hubs              | Nm | –         |
| Rear hubs               | Nm | 300       |
| Wheel nuts / bolts      | Nm | 100±10    |

| Capacities                      |        |     | 328i E36 | 1996 to 1997 |
|---------------------------------|--------|-----|----------|--------------|
| Engine oil & filter             | litres | 6.5 |          |              |
| Gearbox - 4-speed [5-speed]     | litres | 1.2 |          |              |
| Automatic transmission - refill | litres | 3.3 |          |              |
| Final drive                     | litres | 1.7 |          |              |

|                |
|----------------|
| Cooling system |
| Fuel tank      |



**2793 cm<sup>3</sup> 24V**