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Automotive Technical DATA BOOK

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HELP

Engine and cooling system 325i 24V CAT (E36) 1991 to 1993

| | | |
|---|-----|----------------------|
| Type | | M50/B25 25 6S1 141kW |
| Capacity (cm ³) / number of cylinders | | 2494 / 6 |
| Compression ratio / pressure | bar | 10.0 / ≥10.0 |
| Oil pressure | bar | 2.0 [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 | | TBE |
| Thermostat opening temperature | °C | 80 |
| Radiator cap pressure | bar | 2.0±0.15 |

Fuel system 325i 24V CAT (E36) 1991 to 1993

| | | |
|---|-----|---------------|
| Idle speed - manual [auto] | rpm | 700±40 N/A |
| 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 ₂ @ idle speed [3000 rpm] - see page VI | % | — |
| O ₂ @ idle speed [3000 rpm] - see page VI | % | — |
| Carburettor / fuel injection | | Bosch |
| Type / ref | | M3.1-Motronic |
| Main jet / needle | | — |
| Injection pressure | bar | 3.0±0.06 |
| Pump pressure | bar | 3.5 to 4.0 |
| Octane rating | RON | 95[U] |

Ignition system 325i 24V CAT (E36) 1991 to 1993

| | | |
|---------------------------------|--------------------|-------------------|
| Type | | Direct electronic |
| Ignition coil | | Bosch |
| Primary resistance | ohms | 0.8±0.1 |
| Ballast resistor | ohms | — |
| Voltage - Tmnl 15(+) to earth | V | — |
| Distributor | | Bosch |
| Points gap (air gap) | mm | [0.30 to 0.70] |
| Dwell angle | ° (%) | — |
| Condenser capacity | µF | — |
| Rotation | | Clockwise |
| 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 | | F03DAR / C9YCC |
| Electrode gap | mm | 0.90-0.10 |

Electrical system 325i 24V CAT (E36) 1991 to 1993

| | | |
|---|-------------|--------------------------|
| Battery | V / CC / RC | 12 / 50, 70Ah |
| Alternator voltage / full load current / engine rpm | | 13.5 to 14.2 / 80 / 1500 |
| Starter motor current / voltage - cranking | A / V | 160 / 9.0 |
| - locked | A / V | — |

Running gear 325i 24V CAT (E36) 1991 to 1993

| | | |
|--|----|-----|
| Brakes - | | |
| Front (min. friction material thickness) | mm | 2.0 |
| Rear (min. friction material thickness) | mm | 2.0 |

| | | |
|----------------------------------|------|----------------------|
| Tyres | | |
| Saloon | Size | 205/60x15: 225/55x15 |
| Estate / Van | Size | — |
| Pressure - front / rear - Saloon | bar | 2.0 / 2.3 |
| - Estate / Van | bar | — |

Front suspension / wheel alignment

| | | |
|--------------------------|--------|--------------------------------|
| Toe-in (+) / Toe-out (-) | mm [°] | [+18'±5'] |
| Camber | | -40'±30'. Sport: -58'±30' L |
| Castor | | +3°52'±30'. Sport: +3°57'±30'L |
| King pin inclination | | +15°44'±30'. Sport: +15°56' |

Rear suspension / wheel alignment

| | | |
|--------------------------|--------|------------------------------|
| Toe-in (+) / Toe-out (-) | mm [°] | [+24'±6'] |
| Camber | | -1°30'±15'.92 ▶: -1°40'±15'' |

Torque wrench settings 325i 24V CAT (E36) 1991 to 1993

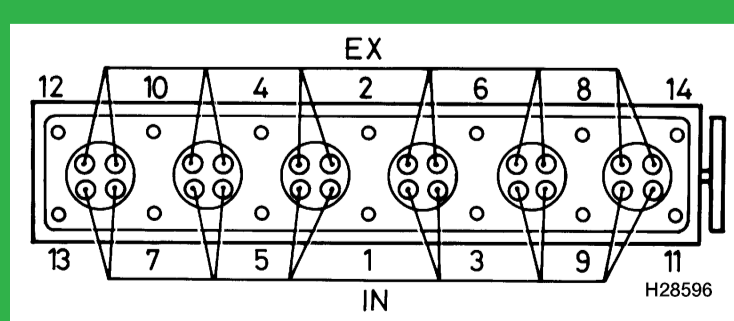
| | | |
|-------------------------|----|------------------|
| Cylinder head - stage 1 | Nm | 30 to 32 WSM |
| - stage 2 | Nm | + 90±3° |
| Cylinder head - stage 3 | Nm | + 90±3° |
| - stage 4 | Nm | — |
| Big-end bearings | Nm | 23 + 70° N |
| Main bearings | Nm | 22.5±2.5 + 50±3° |
| Clutch cover | Nm | 24. 10.9 hex: 35 |
| Flywheel [driveplate] | Nm | 113 to 130 N |
| Front hubs | Nm | 290 |
| Rear hubs | Nm | 300 |
| Wheel nuts / bolts | Nm | 100±10 |
| Spark plugs | Nm | 30 to 33 |

Capacities 325i 24V CAT (E36) 1991 to 1993

| | | |
|---------------------------------|--------|-----------------|
| Engine oil & filter | litres | 6.5 |
| Gearbox - 4-speed [5-speed] | litres | 1.2 or 1.0 |
| Automatic transmission - refill | litres | 3.3 |
| Final drive | litres | 1.7 |
| Cooling system | litres | 10.5. A/C: 11.0 |
| Fuel tank | litres | 65 |

Notes and Illustrations

¹Sport: -2°±15'



2494 cm³, 24V