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Automotive Technical DATA BOOK

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HELP

Engine and cooling system 240, 2.0i 1988 to 1989

| | | |
|---|----------------------|----------------------|
| Type | B200E. SOHC 8V. 85kW | |
| Capacity (cm ³) / number of cylinders | 1986 / 4 | |
| Compression ratio / pressure | bar | 10.0 / ≥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, 2.0i 1988 to 1989

| | | |
|---|------------------|--------------|
| 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 ₂ @ idle speed [3000 rpm] - see page VI | % | — |
| O ₂ @ 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 | 95[E 95 RON] |

Ignition system 240, 2.0i 1988 to 1989

| | | |
|---------------------------------|--------------------|----------------------|
| 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 |
| V = Vacuum NV = No Vacuum | NV | |
| Total ignition advance | ° Crankshaft @ rpm | 17 to 23 BTDC @ 2500 |
| | ° Crankshaft @ rpm | — |
| | ° Crankshaft @ rpm | — |
| Centrifugal check. | ° Crankshaft @ rpm | 17 @ 2000 to 2500 |
| | ° Crankshaft @ rpm | 27 @ 3000 to 3500 |
| | ° Crankshaft @ rpm | 32±2 @ 3800 |
| Vacuum range check | mbar | 140 to 320 |
| Maximum vacuum advance | ° Crankshaft | 22±2 |
| Spark plugs | Bosch/Champion | |
| Type | WR6DC / N9YC | |
| Electrode gap | mm | 0.70 |

Electrical system 240, 2.0i 1988 to 1989

| | | |
|---|-------------|---------------|
| 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, 2.0i 1988 to 1989

| | | |
|--|----|-------------------|
| Brakes - | | |
| Front (min. friction material thickness) | mm | 1.5. Girling: 3.0 |
| Rear (min. friction material thickness) | mm | 3.0 |

Tyres

| | | |
|----------------------------------|------|-------------------|
| Saloon | Size | 175x14: 185/70x14 |
| Estate / Van | Size | 185x14 |
| Pressure - front / rear - Saloon | bar | 1.8 / 1.9 |
| - Estate / Van | bar | 1.9 / 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, 2.0i 1988 to 1989

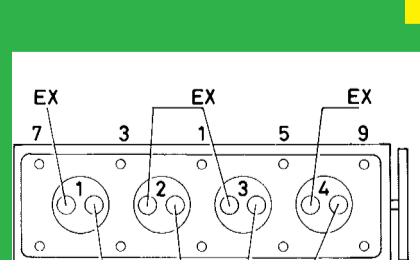
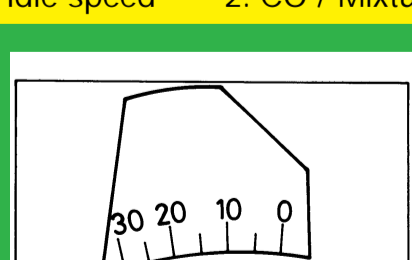
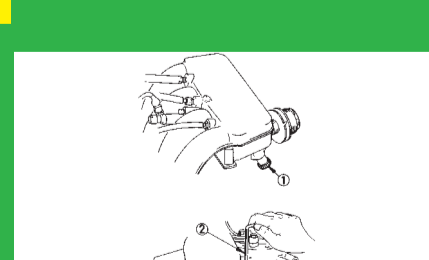
| | | |
|-------------------------|----|-------------------|
| Cylinder head - stage 1 | Nm | 20 |
| - stage 2 | Nm | 60 |
| - stage 3 | Nm | + 90° |
| - stage 4 | Nm | — |
| Big-end bearings | Nm | 20 + 90° |
| Main bearings | Nm | 110 |
| Clutch cover | Nm | — |
| Flywheel [driveplate] | Nm | 70 N |
| Front hubs | Nm | 68, - 120° & lock |
| Rear hubs | Nm | WSM |
| Wheel nuts / bolts | Nm | 115 |
| Spark plugs | Nm | 20 to 30 |

Capacities 240, 2.0i 1988 to 1989

| | | |
|---------------------------------|--------|------|
| Engine oil & filter | litres | 3.85 |
| Gearbox - 4-speed [5-speed] | litres | 1.6 |
| Automatic transmission - refill | litres | 3.9 |
| Final drive | litres | 1.6 |
| Cooling system | litres | 8.5 |
| Fuel tank | litres | 60 |

Notes and Illustrations

1: Idle speed 2: CO / Mixture

1986 cm³1986 cm³

K-Jetronic