

Engine & Cooling

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Automotive Technical  
**DATA BOOK**

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HELP

Engine and cooling system323 1.5i1995 to 1997

|                                      |                  |                         |
|--------------------------------------|------------------|-------------------------|
| Type                                 | Z5 DOHC 16V 67kW |                         |
| Capacity (cm³) / number of cylinders | 1489 / 4         |                         |
| Compression ratio / pressure         | bar              | 9.4 / ≥10.3             |
| Oil pressure                         | bar              | 1.0 to 2.0 [3.4 to 4.4] |
| Oil temperature                      | °C               | 80                      |
| Valve clearance - inlet              | mm               | 0.25 to 0.31            |
| Valve clearance - exhaust            | mm               | 0.25 to 0.31            |
| Firing order                         | 1-3-4-2          |                         |
| No 1 cylinder position               | TBE              |                         |
| Thermostat opening temperature       | °C               | 84 to 89                |
| Radiator cap pressure                | bar              | 0.75 to 1.05            |

Fuel system323 1.5i1995 to 1997

|                                           |        |             |
|-------------------------------------------|--------|-------------|
| Idle speed - manual [auto]                | rpm    | 650 to 750  |
| Fast idle speed - manual [auto]           | rpm    | —           |
| CO @ idle speed [3000 rpm] - see page VI  | %      | 0.5±0.5 N/A |
| HC @ idle speed [3000 rpm] - see page VI  | ppm    | ≤300        |
| CO2 @ idle speed [3000 rpm] - see page VI | %      | —           |
| O2 @ idle speed [3000 rpm] - see page VI  | %      | —           |
| Carburettor / fuel injection              | _Mazda |             |
| Type / ref                                | MPI    |             |
| Main jet / needle                         | —      |             |
| Injection pressure                        | bar    | 2.7 to 3.2  |
| Pump pressure                             | bar    | —           |
| Octane rating                             | RON    | 95[U]       |

Ignition system323 1.5i1995 to 1997

|                                 |                    |                          |
|---------------------------------|--------------------|--------------------------|
| Type                            | Electronic         |                          |
| Ignition coil                   | —                  |                          |
| Primary resistance              | ohms               | 0.49 to 0.73             |
| 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 | 4 to 6 BTDC @ 700 to 800 |
| 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                     | NGK                |                          |
| Type                            | BKR5E-11           |                          |
| Electrode gap                   | mm                 | 1.00 to 1.10             |

Electrical system323 1.5i1995 to 1997

|                                                     |                    |               |
|-----------------------------------------------------|--------------------|---------------|
| Battery                                             | V / CC / RC        | 12 / 50, 80Ah |
| Alternator voltage / full load current / engine rpm | 14.1 to 14.7 / 55A |               |
| Starter motor current / voltage - cranking          | A / V              | —             |
| - locked                                            | A / V              | —             |

Running gear323 1.5i1995 to 1997

|                                          |    |     |
|------------------------------------------|----|-----|
| Brakes -                                 |    |     |
| Front (min. friction material thickness) | mm | 2.0 |
| Rear (min. friction material thickness)  | mm | 1.0 |

|                                  |      |           |
|----------------------------------|------|-----------|
| Tyres                            |      |           |
| Saloon                           | Size | 175/70x13 |
| Estate / Van                     | Size | —         |
| Pressure - front / rear - Saloon | bar  | 2.1 / 2.1 |
| - Estate / Van                   | bar  | —         |

|                                    |                          |         |
|------------------------------------|--------------------------|---------|
| Front suspension / wheel alignment |                          |         |
| Toe-in (+) / Toe-out (–)           | mm [°]                   | 2.0±4.0 |
| Camber                             | -44'±1°                  |         |
| Castor                             | 1°55'±1° (3dr: 1°53'±1°) |         |
| King pin inclination               | 13°22'                   |         |

|                                   |        |         |
|-----------------------------------|--------|---------|
| Rear suspension / wheel alignment |        |         |
| Toe-in (+) / Toe-out (–)          | mm [°] | 2.0±4.0 |
| Camber                            | 49'±1° |         |

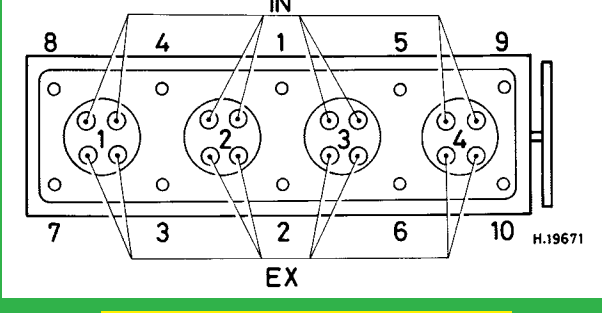
Torque wrench settings323 1.5i1995 to 1997

|                         |    |              |
|-------------------------|----|--------------|
| Cylinder head - stage 1 | Nm | 17 to 22     |
| - stage 2               | Nm | +90°         |
| Cylinder head - stage 3 | Nm | +90°         |
| - stage 4               | Nm | —            |
| Big-end bearings        | Nm | 30 to 34     |
| Main bearings           | Nm | 54 to 59     |
| Clutch cover            | Nm | 18 to 26     |
| Flywheel [driveplate]   | Nm | 97 to 102    |
| Front hubs              | Nm | 235 to 319 N |
| Rear hubs               | Nm | 177 to 235 N |
| Wheel nuts / bolts      | Nm | 118          |
| Spark plugs             | Nm | 15 to 23     |

Capacities323 1.5i1995 to 1997

|                                 |        |              |
|---------------------------------|--------|--------------|
| Engine oil & filter             | litres | 3.5          |
| Gearbox - 4-speed [5-speed]     | litres | 2.7          |
| Automatic transmission - refill | litres | 4.9          |
| Final drive                     | litres | AT: 0.8      |
| Cooling system                  | litres | 5.0. AT: 6.0 |
| Fuel tank                       | litres | 55           |

Notes and Illustrations



1489 cm³, 16V