

Engine & Cooling

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Automotive Technical  
**DATA BOOK**

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HELP

Engine and cooling system323 2.0i V61995 to 1997

|                                                   |                      |                         |
|---------------------------------------------------|----------------------|-------------------------|
| Type                                              | KF V6 DOHC 24V 110kW |                         |
| Capacity (cm <sup>3</sup> ) / number of cylinders | 1995 / 6             |                         |
| Compression ratio / pressure                      | bar                  | 10.0 / ≥11.0            |
| Oil pressure                                      | bar                  | 1.0 to 2.0 [3.4 to 5.0] |
| Oil temperature                                   | °C                   | 80                      |
| Valve clearance - inlet                           | mm                   | 0: Hyd.                 |
| Valve clearance - exhaust                         | mm                   | 0: Hyd.                 |
| Firing order                                      | 1-2-3-4-5-6          |                         |
| No 1 cylinder position                            | —                    |                         |
| Thermostat opening temperature                    | °C                   | 84 to 89                |
| Radiator cap pressure                             | bar                  | 0.75 to 1.05            |

Fuel system323 2.0i V61995 to 1997

|                                           |        |        |
|-------------------------------------------|--------|--------|
| Idle speed - manual [auto]                | rpm    | 800±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   |
| 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    | —      |
| Pump pressure                             | bar    | —      |
| Octane rating                             | RON    | 95[U]  |

Ignition system323 2.0i V61995 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       | 9 to 11 BTDC @ 800±50 N/A |
| V = Vacuum  NV = No Vacuum      | V                        |                           |
| 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/Nippon Denso         |                           |
| Type                            | BKR5E-11 / W16/20EXR-U11 |                           |
| Electrode gap                   | mm                       | 1.00 to 1.10              |

Electrical system323 2.0i V61995 to 1997

|                                                     |                    |             |
|-----------------------------------------------------|--------------------|-------------|
| Battery                                             | V / CC / RC        | 12 / 50, 80 |
| Alternator voltage / full load current / engine rpm | 14.1 to 14.7 / 95A |             |
| Starter motor current / voltage - cranking          | A / V              | —           |
| - locked                                            | A / V              | —           |

Running gear323 2.0i V61995 to 1997

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

|                                  |      |                      |
|----------------------------------|------|----------------------|
| Tyres                            |      |                      |
| Saloon                           | Size | 195/60x15: 205/50x16 |
| Estate / Van                     | Size | —                    |
| Pressure - front / rear - Saloon | bar  | 2.2 / 2.2            |
| - Estate / Van                   | bar  | —                    |

|                                    |          |         |
|------------------------------------|----------|---------|
| Front suspension / wheel alignment |          |         |
| Toe-in (+) / Toe-out (–)           | mm [°]   | 2.0±4.0 |
| Camber                             | -52'±1°  |         |
| Castor                             | 2°04'±1° |         |
| King pin inclination               | 13°36'   |         |

|                                   |         |         |
|-----------------------------------|---------|---------|
| Rear suspension / wheel alignment |         |         |
| Toe-in (+) / Toe-out (–)          | mm [°]  | 2.0±4.0 |
| Camber                            | -56'±1° |         |

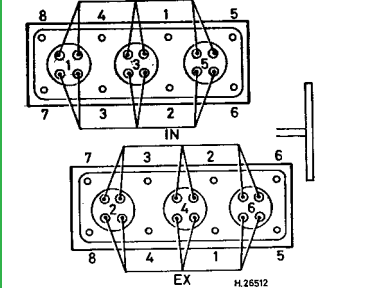
Torque wrench settings323 2.0i V61995 to 1997

|                         |    |                       |
|-------------------------|----|-----------------------|
| Cylinder head - stage 1 | Nm | Bolt length: ≤135.0mm |
| - stage 2               | Nm | 23 to 26              |
| Cylinder head - stage 3 | Nm | + 90°                 |
| - stage 4               | Nm | + 90°                 |
| Big-end bearings        | Nm | 22 to 27, +90°        |
| Main bearings           | Nm | WSM                   |
| Clutch cover            | Nm | 18 to 26              |
| Flywheel [driveplate]   | Nm | 61 to 67 [97 to 102]  |
| Front hubs              | Nm | 236 to 318 N          |
| Rear hubs               | Nm | 177 to 235            |
| Wheel nuts / bolts      | Nm | 118                   |
| Spark plugs             | Nm | 15 to 23              |

Capacities323 2.0i V61995 to 1997

|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 4.0 |
| Gearbox - 4-speed [5-speed]     | litres | 2.7 |
| Automatic transmission - refill | litres | 8.8 |
| Final drive                     | litres | WT  |
| Cooling system                  | litres | 5.0 |
| Fuel tank                       | litres | 55  |

Notes and Illustrations



1995 cm<sup>3</sup>, 24V