

Engine & Cooling

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Automotive Technical  
**DATA BOOK**

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HELP

Engine and cooling systemToledo 1.8i 16V1991 to 1992

|                                                   |     |                  |
|---------------------------------------------------|-----|------------------|
| Type                                              |     | KR DOHC 16V 98kW |
| Capacity (cm <sup>3</sup> ) / number of cylinders |     | 1781 / 4         |
| Compression ratio / pressure                      | bar | 10.0 / ≥7.5      |
| Oil pressure                                      | bar | [2.0]            |
| Oil temperature                                   | °C  | 80               |
| Valve clearance - inlet                           | mm  | 0: Hyd.          |
| - exhaust                                         | mm  | 0: Hyd.          |
| Firing order                                      |     | 1-3-4-2          |
| No 1 cylinder position                            |     | TBE              |
| Thermostat opening temperature                    | °C  | 85               |
| Radiator cap pressure                             | bar | 1.3 to 1.5       |

Fuel systemToledo 1.8i 16V1991 to 1992

|                                           |     |              |
|-------------------------------------------|-----|--------------|
| Idle speed - manual [auto]                | rpm | 1000±50      |
| Fast idle speed - manual [auto]           | rpm | —            |
| CO @ idle speed [3000 rpm] - see page VI  | %   | 1.0±0.5      |
| HC @ idle speed [3000 rpm] - see page VI  | ppm | ≤1200        |
| CO2 @ idle speed [3000 rpm] - see page VI | %   | —            |
| O2 @ idle speed [3000 rpm] - see page VI  | %   | —            |
| Carburettor / fuel injection              |     | Bosch        |
| Type / ref                                |     | K-Jetronic   |
| Main jet / needle                         |     | —            |
| Injection pressure                        | bar | 3.5 to 4.1   |
| Pump pressure                             | bar | 4.7 to 5.4   |
| Octane rating                             | RON | 98[E 98 RON] |

Ignition systemToledo 1.8i 16V1991 to 1992

|                                 |                    |                    |
|---------------------------------|--------------------|--------------------|
| Type                            |                    | FEI                |
| Ignition coil                   |                    | —                  |
| 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 | 6±1 BTDC @ 1000±50 |
| V = Vacuum NV = No Vacuum       |                    | V                  |
| Total ignition advance          | ° Crankshaft @ rpm | —                  |
|                                 | ° 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                            |                    | F6DTC / C6BYC      |
| Electrode gap                   | mm                 | 0.70 to 0.90       |

Electrical systemToledo 1.8i 16V1991 to 1992

|                                                     |             |                              |
|-----------------------------------------------------|-------------|------------------------------|
| Battery                                             | V / CC / RC | 12 / 265 / 54Ah              |
| Alternator voltage / full load current / engine rpm |             | 12.5 to 14.5 / 65, 90 / 3000 |
| Starter motor current / voltage - cranking          | A / V       | —                            |
| - locked                                            | A / V       | —                            |

Running gearToledo 1.8i 16V1991 to 1992

|                                          |    |                  |
|------------------------------------------|----|------------------|
| Brakes -                                 |    |                  |
| Front (min. friction material thickness) | mm | 7.0 with backing |
| Rear (min. friction material thickness)  | mm | 7.0 with backing |

|                                  |      |                      |
|----------------------------------|------|----------------------|
| Tyres                            |      |                      |
| Saloon                           | Size | 195/50x15: 185/60x14 |
| Estate / Van                     | Size | —                    |
| Pressure - front / rear - Saloon | bar  | 2.2 / 2.0            |
| - Estate / Van                   | bar  | —                    |

|                                    |        |            |
|------------------------------------|--------|------------|
| Front suspension / wheel alignment |        |            |
| Toe-in (+) / Toe-out (–)           | mm [°] | 0±1.0      |
| Camber                             |        | -42'±20'   |
| Castor                             |        | +1°55'±30' |
| King pin inclination               |        | —          |

|                                   |        |            |
|-----------------------------------|--------|------------|
| Rear suspension / wheel alignment |        |            |
| Toe-in (+) / Toe-out (–)          | mm [°] | 20'±10'    |
| Camber                            |        | -1°30'±10' |

Torque wrench settingsToledo 1.8i 16V1991 to 1992

|                         |    |            |
|-------------------------|----|------------|
| Cylinder head - stage 1 | Nm | 40         |
| - stage 2               | Nm | 60         |
| - stage 3               | Nm | + 90°      |
| - stage 4               | Nm | + 90°      |
| Big-end bearings        | Nm | 30 + 90°   |
| Main bearings           | Nm | 65         |
| Clutch cover            | Nm | 20         |
| Flywheel [driveplate]   | Nm | 60 + 90° N |
| Front hubs              | Nm | 260        |
| Rear hubs               | Nm | WSM        |
| Wheel nuts / bolts      | Nm | 110        |
| Spark plugs             | Nm | 30         |

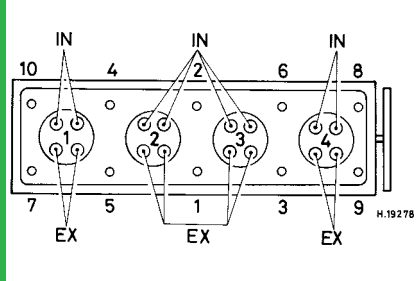
CapacitiesToledo 1.8i 16V1991 to 1992

|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 4.0 |
| Gearbox - 4-speed [5-speed]     | litres | 2.0 |
| Automatic transmission - refill | litres | —   |
| Final drive                     | litres | WT  |
| Cooling system                  | litres | 6.2 |
| Fuel tank                       | litres | 55  |

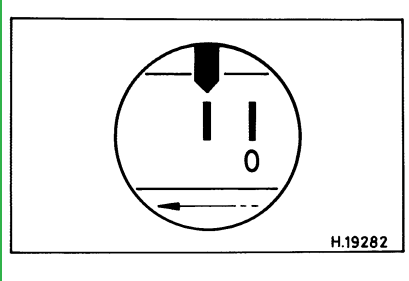
Notes and Illustrations



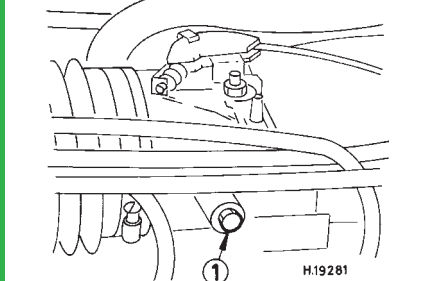
1: Idle speed      2: CO / Mixture



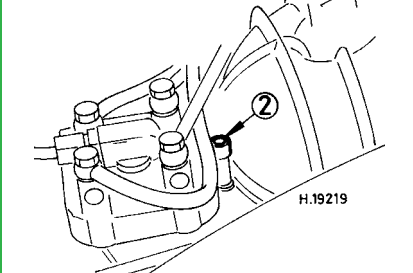
1781 cm<sup>3</sup>, DOHC 16V



1781 cm<sup>3</sup>, 16V



K-Jetronic



K-Jetronic