

Engine & Cooling

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Automotive Technical  
**DATA BOOK**

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Engine and cooling system

505, 1.8

1985 to 1992

|                                      |     |                    |
|--------------------------------------|-----|--------------------|
| Type                                 |     | XM7A (105C) (62kW) |
| Capacity (cm³) / number of cylinders |     | 1796 / 4           |
| Compression ratio / pressure         | bar | 8.8 / _            |
| Oil pressure                         | bar | 2.7±0.8            |
| Oil temperature                      | °C  | 90                 |
| Valve clearance - inlet              | mm  | 0.10               |
| Valve clearance - exhaust            | mm  | 0.25               |
| Firing order                         |     | 1-3-4-2            |
| No 1 cylinder position               |     | FE                 |
| Thermostat opening temperature       | °C  | _                  |
| Radiator cap pressure                | bar | 0.8 [AT: 1.0]      |

Fuel system

505, 1.8

1985 to 1992

|                                           |     |                          |
|-------------------------------------------|-----|--------------------------|
| Idle speed - manual [auto]                | rpm | 900±50                   |
| Fast idle speed - manual [auto]           | rpm | _                        |
| CO @ idle speed [3000 rpm] - see page VI  | %   | 1.5±0.5                  |
| HC @ idle speed [3000 rpm] - see page VI  | ppm | ≤1200                    |
| CO2 @ idle speed [3000 rpm] - see page VI | %   | ≥10.0                    |
| O2 @ idle speed [3000 rpm] - see page VI  | %   | _                        |
| Carburettor / fuel injection              |     | Solex                    |
| Type / ref                                |     | 32-34 CISAC Z2 PEU 398-1 |
| Main jet / needle                         |     | 117±5, 127±5             |
| Injection pressure                        | bar | _                        |
| Pump pressure                             | bar | _                        |
| Octane rating                             | RON | 96[L] <sup>1</sup>       |

Ignition system

505, 1.8

1985 to 1992

|                                 |                    |                   |
|---------------------------------|--------------------|-------------------|
| Type                            |                    | Electronic        |
| Ignition coil                   |                    | Bosch. Ducellier  |
| Primary resistance              | ohms               | 0.82              |
| 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 | 10 BTDC @ 900     |
| V = Vacuum    NV = No Vacuum    |                    | NV                |
| Total ignition advance          | ° Crankshaft @ rpm | C021-D016         |
|                                 | ° Crankshaft @ rpm | _                 |
|                                 | ° Crankshaft @ rpm | _                 |
| Centrifugal check.              | ° Crankshaft @ rpm | 0 to 4 @ 1600     |
|                                 | ° Crankshaft @ rpm | 14 to 18.5 @ 2500 |
|                                 | ° Crankshaft @ rpm | 24 to 28 @ 5000   |
| Vacuum range check              | mbar               | 133 to 400        |
| Maximum vacuum advance          | ° Crankshaft       | 14 to 18          |
| Spark plugs                     |                    | Bosch/Champion    |
| Type                            |                    | W7DC / RN9YCC     |
| Electrode gap                   | mm                 | 0.80              |

Electrical system

505, 1.8

1985 to 1992

|                                                     |             |               |
|-----------------------------------------------------|-------------|---------------|
| Battery                                             | V / CC / RC | 12 / 210 / 65 |
| Alternator voltage / full load current / engine rpm |             | _             |
| Starter motor current / voltage - cranking          | A / V       | _             |
| - locked                                            | A / V       | _             |

Running gear

505, 1.8

1985 to 1992

|                                          |    |   |
|------------------------------------------|----|---|
| <b>Brakes -</b>                          |    |   |
| Front (min. friction material thickness) | mm | _ |
| Rear (min. friction material thickness)  | mm | _ |

|                                  |      |           |
|----------------------------------|------|-----------|
| <b>Tyres</b>                     |      |           |
| Saloon                           | Size | 175x14    |
| Estate / Van                     | Size | _         |
| Pressure - front / rear - Saloon | bar  | 1.8 / 2.0 |
| - Estate / Van                   | bar  | _         |

Front suspension / wheel alignment

|                          |        |            |
|--------------------------|--------|------------|
| Toe-in (+) / Toe-out (-) | mm [°] | +3.0±1.0   |
| Camber                   |        | -45'±30'   |
| Castor                   |        | +2°40'±30' |
| King pin inclination     |        | +9°15'±30' |

Rear suspension / wheel alignment

|                          |        |                   |
|--------------------------|--------|-------------------|
| Toe-in (+) / Toe-out (-) | mm [°] | +3±1.0. Estate: 0 |
| Camber                   |        | -1°±30' Estate: 0 |

Torque wrench settings

505, 1.8

1985 to 1992

|                         |    |                                           |
|-------------------------|----|-------------------------------------------|
| Cylinder head - stage 1 | Nm | 50 <sup>2</sup>                           |
| - stage 2               | Nm | Slacken, then 20 <sup>2</sup>             |
| Cylinder head - stage 3 | Nm | + 90° <sup>2</sup>                        |
| - stage 4               | Nm | Repeat from S2 after warm up <sup>2</sup> |
| Big-end bearings        | Nm | 40                                        |
| Main bearings           | Nm | 75                                        |
| Clutch cover            | Nm | 15                                        |
| Flywheel [driveplate]   | Nm | 68                                        |
| Front hubs              | Nm | WSM                                       |
| Rear hubs               | Nm | 280                                       |
| Wheel nuts / bolts      | Nm | Steel: 60. Alloy: 80                      |
| Spark plugs             | Nm | 23                                        |

Capacities

505, 1.8

1985 to 1992

|                                 |        |                                    |
|---------------------------------|--------|------------------------------------|
| Engine oil & filter             | litres | 4.5                                |
| Gearbox - 4-speed [5-speed]     | litres | 1.6                                |
| Automatic transmission - refill | litres | 2.6                                |
| Final drive                     | litres | 1.6                                |
| Cooling system                  | litres | 7.1 without expansion <sup>3</sup> |
| Fuel tank                       | litres | 70                                 |

Notes and Illustrations

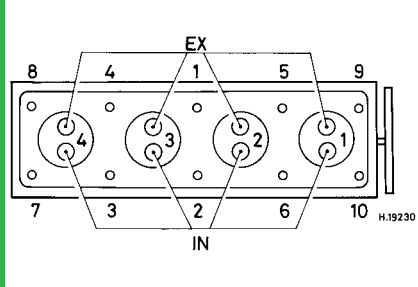
<sup>1</sup>1986 MY: [E 95 RON]

<sup>2</sup>VIN 1845 001 ►: 50, slacken, then 20 + 180°.Warm up + 35°

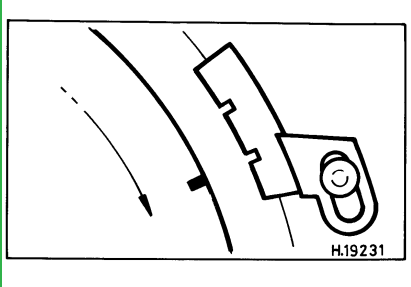
<sup>3</sup>8.4 with exp. AT: 7.3

1: Idle speed

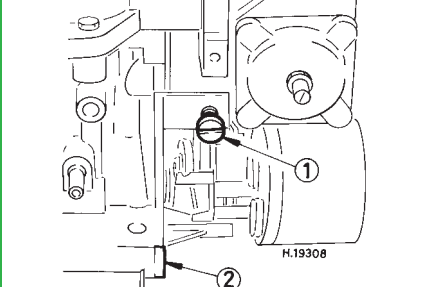
2: CO / Mixture



1796 cm³



1796 cm³



Solex CISAC