

Engine & Cooling

Fuel

Ignition

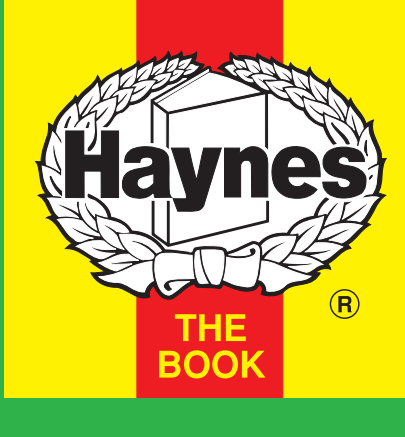
Electrical

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Automotive Technical  
**DATA BOOK**

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HELP

Engine and cooling systemBX 16i CAT1990 to 1991

|                                      |     |                 |
|--------------------------------------|-----|-----------------|
| Type                                 |     | XU5M (BDZ) 65kW |
| Capacity (cm³) / number of cylinders |     | 1580 / 4        |
| Compression ratio / pressure         | bar | 9.26 / _        |
| Oil pressure                         | bar | [4.0]           |
| Oil temperature                      | °C  | 80              |
| Valve clearance - inlet              | mm  | 0.20±0.05       |
| Valve clearance - exhaust            | mm  | 0.40±0.05       |
| Firing order                         |     | 1-3-4-2         |
| No 1 cylinder position               |     | FE              |
| Thermostat opening temperature       | °C  | 82              |
| Radiator cap pressure                | bar | 1.0             |

Fuel systemBX 16i CAT1990 to 1991

|                                           |     |            |
|-------------------------------------------|-----|------------|
| Idle speed - manual [auto]                | rpm | 800±50 N/A |
| Fast idle speed - manual [auto]           | rpm | _          |
| CO @ idle speed [3000 rpm] - see page VI  | %   | ≤0.5 N/A   |
| HC @ idle speed [3000 rpm] - see page VI  | ppm | ≤100       |
| CO2 @ idle speed [3000 rpm] - see page VI | %   | ≥10.0      |
| O2 @ idle speed [3000 rpm] - see page VI  | %   | _          |
| Carburettor / fuel injection              |     | Bosch      |
| Type / ref                                |     | Monopoint  |
| Main jet / needle                         |     | _          |
| Injection pressure                        | bar | _          |
| Pump pressure                             | bar | _          |
| Octane rating                             | RON | 95[U]      |

Ignition systemBX 16i CAT1990 to 1991

|                                 |                    |                          |
|---------------------------------|--------------------|--------------------------|
| Type                            |                    | Electronic - Hall effect |
| Ignition coil                   |                    | BTR 02                   |
| Primary resistance              | ohms               | 0.8                      |
| Ballast resistor                | ohms               | _                        |
| Voltage - Tmnl 15(+) to earth   | V                  | _                        |
| Distributor                     |                    | Ducellier/Bosch          |
| Points gap (air gap)            | mm                 | _                        |
| Dwell angle                     | ° (%)              | _                        |
| Condenser capacity              | µF                 | _                        |
| Rotation                        |                    | _                        |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 10 BTDC @ 700            |
| V = Vacuum NV = No Vacuum       |                    | NV                       |
| Total ignition advance          | ° Crankshaft @ rpm | _                        |
|                                 | ° Crankshaft @ rpm | _                        |
|                                 | ° Crankshaft @ rpm | _                        |
| Centrifugal check.              | ° Crankshaft @ rpm | _                        |
|                                 | ° Crankshaft @ rpm | _                        |
|                                 | ° Crankshaft @ rpm | _                        |
| Vacuum range check              | mbar               | _                        |
| Maximum vacuum advance          | ° Crankshaft       | _                        |
| Spark plugs                     |                    | Eyquem/Champion          |
| Type                            |                    | FC58LS / C7YCX           |
| Electrode gap                   | mm                 | 0.80                     |

Electrical systemBX 16i CAT1990 to 1991

|                                                     |             |                           |
|-----------------------------------------------------|-------------|---------------------------|
| Battery                                             | V / CC / RC | 12 / 225 / 45, / 200 / 33 |
| Alternator voltage / full load current / engine rpm |             | 13.5 / 50 / 3650          |
| Starter motor current / voltage - cranking          | A / V       | 220 /                     |
| - locked                                            | A / V       | 350 /                     |

Running gearBX 16i CAT1990 to 1991

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

|                                  |      |                    |
|----------------------------------|------|--------------------|
| Tyres                            |      |                    |
| Saloon                           | Size | 155x14: 165/70x14  |
| Estate / Van                     | Size | 165/70x14          |
| Pressure - front / rear - Saloon | bar  | 165x14: 2.0 / 2.0¹ |
| - Estate / Van                   | bar  | 2.3 / 2.5          |

|                                    |        |           |
|------------------------------------|--------|-----------|
| Front suspension / wheel alignment |        |           |
| Toe-in (+) / Toe-out (-)           | mm [°] | 0 to -3.0 |
| Camber                             |        | 0±30'     |
| Castor                             |        | +2°±35'   |
| King pin inclination               |        | +11°58'   |

|                                   |        |           |
|-----------------------------------|--------|-----------|
| Rear suspension / wheel alignment |        |           |
| Toe-in (+) / Toe-out (-)          | mm [°] | 0 to +5.0 |
| Camber                            |        | -1°±20'   |

Torque wrench settingsBX 16i CAT1990 to 1991

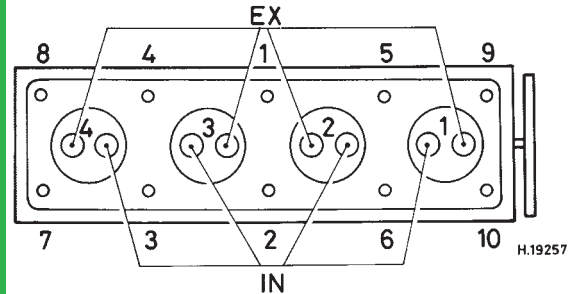
|                         |    |              |
|-------------------------|----|--------------|
| Cylinder head - stage 1 | Nm | 60           |
| - stage 2               | Nm | Slacken      |
| Cylinder head - stage 3 | Nm | 20           |
| - stage 4               | Nm | + 300°       |
| Big-end bearings        | Nm | 50           |
| Main bearings           | Nm | 53           |
| Clutch cover            | Nm | 22           |
| Flywheel [driveplate]   | Nm | 50 LkC       |
| Front hubs              | Nm | 270          |
| Rear hubs               | Nm | 270          |
| Wheel nuts / bolts      | Nm | 80 Alloy: 90 |
| Spark plugs             | Nm | 25           |

CapacitiesBX 16i CAT1990 to 1991

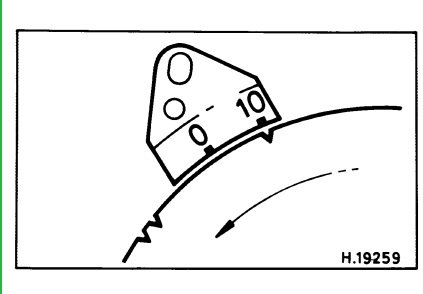
|                                 |        |          |
|---------------------------------|--------|----------|
| Engine oil & filter             | litres | 5.0      |
| Gearbox - 4-speed [5-speed]     | litres | 1.8      |
| Automatic transmission - refill | litres | 2.5      |
| Final drive                     | litres | WT       |
| Cooling system                  | litres | 6.5      |
| Fuel tank                       | litres | 52 or 66 |

Notes and Illustrations

¹155x14: 2.2 / 2.2



1580 cm³



1580 cm³