

Engine & Cooling

Fuel

Ignition

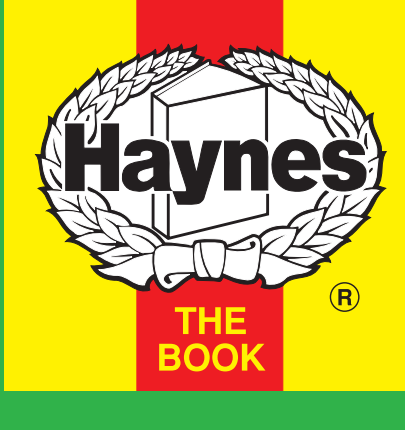
Electrical

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Automotive Technical  
DATA BOOK

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HELP

Engine and cooling system

Uno 1.5ie CAT

1993 to 1994

|                                      |     |                           |
|--------------------------------------|-----|---------------------------|
| Type                                 |     | 149 C1.000 SOHC 56kW US83 |
| Capacity (cm³) / number of cylinders |     | 1498 / 4                  |
| Compression ratio / pressure         | bar | 9.2 / _                   |
| Oil pressure                         | bar | [3.4 to 4.9]              |
| Oil temperature                      | °C  | 100                       |
| Valve clearance - inlet              | mm  | 0.36 to 0.44              |
| Valve clearance - exhaust            | mm  | 0.46 to 0.54              |
| Firing order                         |     | 1-3-4-2                   |
| No 1 cylinder position               |     | TBE                       |
| Thermostat opening temperature       | °C  | 85 to 89                  |
| Radiator cap pressure                | bar | 0.98                      |

Fuel system

Uno 1.5ie CAT

1993 to 1994

|                                           |     |                           |
|-------------------------------------------|-----|---------------------------|
| Idle speed - manual [auto]                | rpm | 800 to 900 N/A            |
| Fast idle speed - manual [auto]           | rpm | _                         |
| CO @ idle speed [3000 rpm] - see page VI  | %   | 0.4 to 1.0. Ex: ≤0.35 N/A |
| HC @ idle speed [3000 rpm] - see page VI  | ppm | ≤600 Ex: ≤90              |
| CO2 @ idle speed [3000 rpm] - see page VI | %   | ≥13.0                     |
| O2 @ idle speed [3000 rpm] - see page VI  | %   | _                         |
| Carburettor / fuel injection              |     | Bosch                     |
| Type / ref                                |     | Mono-Jetronic SPI         |
| Main jet / needle                         |     | _                         |
| Injection pressure                        | bar | 1.06±0.06                 |
| Pump pressure                             | bar | 1.1±0.1                   |
| Octane rating                             | RON | 95[U]                     |

Ignition system

Uno 1.5ie CAT

1993 to 1994

|                                 |                    |                           |
|---------------------------------|--------------------|---------------------------|
| Type                            |                    | Digiplex 2-Static         |
| Ignition coil                   |                    | Marelli BAE 504 D         |
| Primary resistance              | ohms               | 0.405 to 0.495            |
| Ballast resistor                | ohms               | _                         |
| Voltage - Tmnl 15(+) to earth   | V                  | _                         |
| Distributor                     |                    | Marelli                   |
| Points gap (air gap)            | mm                 | _                         |
| Dwell angle                     | ° (%)              | _                         |
| Condenser capacity              | µF                 | _                         |
| Rotation                        |                    | Clockwise                 |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 5±2 BTDC @ 800 to 850 N/A |
| V = Vacuum    NV = No Vacuum    |                    | _                         |
| 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                            |                    | WR6DC / RN7YCC            |
| Electrode gap                   | mm                 | 0.85 to 0.95              |

Electrical system

Uno 1.5ie CAT

1993 to 1994

|                                                     |             |                              |
|-----------------------------------------------------|-------------|------------------------------|
| Battery                                             | V / CC / RC | 12 / 200 / 40Ah              |
| Alternator voltage / full load current / engine rpm |             | 14.0 to 14.3 / 55, 65 / 3500 |
| Starter motor current / voltage - cranking          | A / V       | 200 / 9.8 to 10.0            |
| - locked                                            | A / V       | 440 / 7.6                    |

Running gear

Uno 1.5ie CAT

1993 to 1994

|                                          |    |     |
|------------------------------------------|----|-----|
| Brakes -                                 |    |     |
| Front (min. friction material thickness) | mm | 1.5 |
| Rear (min. friction material thickness)  | mm | 1.5 |

|                                  |      |           |
|----------------------------------|------|-----------|
| Tyres                            |      |           |
| Saloon                           | Size | 155/70x13 |
| Estate / Van                     | Size | _         |
| Pressure - front / rear - Saloon | bar  | 2.0 / 1.9 |
| - Estate / Van                   | bar  | _         |

|                                    |        |              |
|------------------------------------|--------|--------------|
| Front suspension / wheel alignment |        |              |
| Toe-in (+) / Toe-out (-)           | mm [°] | +1.0±1.0     |
| Camber                             |        | -30'±30' N/A |
| Castor                             |        | +2°±15'      |
| King pin inclination               |        | _            |

|                                   |        |   |
|-----------------------------------|--------|---|
| Rear suspension / wheel alignment |        |   |
| Toe-in (+) / Toe-out (-)          | mm [°] | _ |
| Camber                            |        | _ |

Torque wrench settings

Uno 1.5ie CAT

1993 to 1994

|                         |    |                    |
|-------------------------|----|--------------------|
| Cylinder head - stage 1 | Nm | 20 <sup>1</sup>    |
| - stage 2               | Nm | 40 <sup>1</sup>    |
| Cylinder head - stage 3 | Nm | + 90 <sup>°1</sup> |
| - stage 4               | Nm | + 90 <sup>°1</sup> |
| Big-end bearings        | Nm | 51                 |
| Main bearings           | Nm | 80                 |
| Clutch cover            | Nm | 16                 |
| Flywheel [driveplate]   | Nm | 83                 |
| Front hubs              | Nm | 294                |
| Rear hubs               | Nm | 216                |
| Wheel nuts / bolts      | Nm | 86                 |
| Spark plugs             | Nm | 25 to 30           |

Capacities

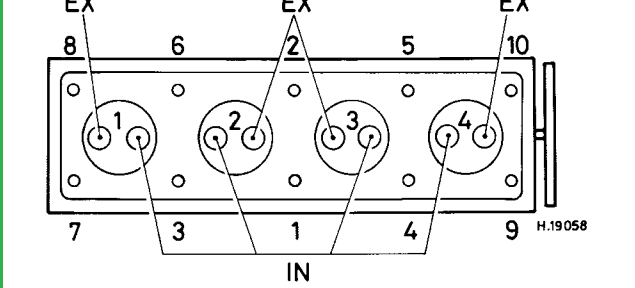
Uno 1.5ie CAT

1993 to 1994

|                                 |        |      |
|---------------------------------|--------|------|
| Engine oil & filter             | litres | 4.05 |
| Gearbox - 4-speed [5-speed]     | litres | 2.0  |
| Automatic transmission - refill | litres | 3.5  |
| Final drive                     | litres | WT   |
| Cooling system                  | litres | 6.2  |
| Fuel tank                       | litres | 38   |

Notes and Illustrations

<sup>1</sup>M8 bolts: 30



1498 cm³