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Automotive Technical  
**DATA BOOK**

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Engine and cooling system

Uno 1.1ie CAT1989 to 1995

|                                      |     |                            |
|--------------------------------------|-----|----------------------------|
| Type                                 |     | 156 C.046 (FIRE) 37kW US83 |
| Capacity (cm³) / number of cylinders |     | 1108 / 4                   |
| Compression ratio / pressure         | bar | 9.6±0.2 / _                |
| Oil pressure                         | bar | [3.4 to 4.9]               |
| Oil temperature                      | °C  | 100                        |
| Valve clearance - inlet              | mm  | 0.30±0.05                  |
| Valve clearance - exhaust            | mm  | 0.40±0.05                  |
| Firing order                         |     | 1-3-4-2                    |
| No 1 cylinder position               |     | TBE                        |
| Thermostat opening temperature       | °C  | 87±2                       |
| Radiator cap pressure                | bar | 0.98                       |

Fuel system

Uno 1.1ie CAT1989 to 1995

|                                           |     |                           |
|-------------------------------------------|-----|---------------------------|
| Idle speed - manual [auto]                | rpm | 850±50 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 | _                         |
| Pump pressure                             | bar | 1.1                       |
| Octane rating                             | RON | 95[U]                     |

Ignition system

Uno 1.1ie CAT1989 to 1995

|                                 |                    |                   |
|---------------------------------|--------------------|-------------------|
| Type                            |                    | Electronic        |
| Ignition coil                   |                    | Marelli BAE 504 D |
| Primary resistance              | ohms               | 0.666 to 0.814    |
| Ballast resistor                | ohms               | _                 |
| Voltage - Tmnl 15(+) to earth   | V                  | _                 |
| Distributor                     |                    | Marelli           |
| Points gap (air gap)            | mm                 | [0.30 to 0.40]    |
| Dwell angle                     | ° (%)              | _                 |
| Condenser capacity              | µF                 | _                 |
| Rotation                        |                    | Clockwise         |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 0±2 BTDC @ 850±50 |
| V = Vacuum NV = No Vacuum       |                    | NV                |
| Total ignition advance          | ° Crankshaft @ rpm | 7±2 BTDC @ 850±50 |
|                                 | ° Crankshaft @ rpm | _                 |
|                                 | ° Crankshaft @ rpm | _                 |
| Centrifugal check.              | ° Crankshaft @ rpm | 0±2 @ 1000±200    |
|                                 | ° Crankshaft @ rpm | 15±2 @ 1900±200   |
|                                 | ° Crankshaft @ rpm | 28±2 @ 5000±200   |
| Vacuum range check              | mbar               | 147 to 267        |
| Maximum vacuum advance          | ° Crankshaft       | 7±1               |
| Spark plugs                     |                    | Champion          |
| Type                            |                    | RN9YCC            |
| Electrode gap                   | mm                 | 0.85 to 0.95      |

Electrical system

Uno 1.1ie CAT1989 to 1995

|                                                     |             |                          |
|-----------------------------------------------------|-------------|--------------------------|
| Battery                                             | V / CC / RC | 12 / 150 / 32Ah          |
| Alternator voltage / full load current / engine rpm |             | 14.0 to 14.3 / 55 / 3000 |
| Starter motor current / voltage - cranking          | A / V       | 180 to 190 / 9.1 to 10.4 |
| - locked                                            | A / V       | 324 to 420 / 7.1 to 8.5  |

Running gear

Uno 1.1ie CAT1989 to 1995

|                                          |    |     |
|------------------------------------------|----|-----|
| 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  | 1.9 / 1.9 |
| - Estate / Van                   | bar  | _         |

|                                    |        |              |
|------------------------------------|--------|--------------|
| Front suspension / wheel alignment |        |              |
| Toe-in (+) / Toe-out (-)           | mm [°] | +1.0±1.0     |
| Camber                             |        | +25'±30' N/A |
| Castor                             |        | +2°±30' N/A  |
| King pin inclination               |        | _            |

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

Torque wrench settings

Uno 1.1ie CAT1989 to 1995

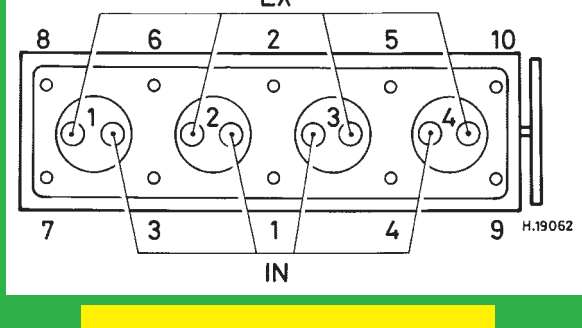
|                         |    |          |
|-------------------------|----|----------|
| Cylinder head - stage 1 | Nm | 30       |
| - stage 2               | Nm | + 90°    |
| Cylinder head - stage 3 | Nm | + 90°    |
| - stage 4               | Nm | _        |
| Big-end bearings        | Nm | 41       |
| Main bearings           | Nm | 40 + 90° |
| Clutch cover            | Nm | 16       |
| Flywheel [driveplate]   | Nm | 44       |
| Front hubs              | Nm | 294      |
| Rear hubs               | Nm | 216      |
| Wheel nuts / bolts      | Nm | 86       |
| Spark plugs             | Nm | 25 to 30 |

Capacities

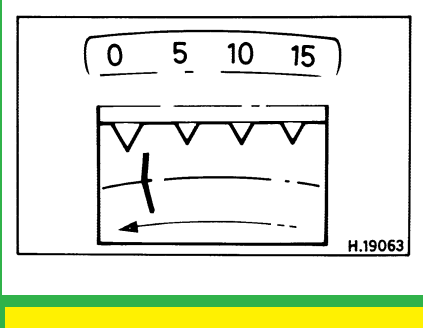
Uno 1.1ie CAT1989 to 1995

|                                 |        |      |
|---------------------------------|--------|------|
| Engine oil & filter             | litres | 3.75 |
| Gearbox - 4-speed [5-speed]     | litres | 2.4  |
| Automatic transmission - refill | litres | _    |
| Final drive                     | litres | WT   |
| Cooling system                  | litres | 4.6  |
| Fuel tank                       | litres | 38   |

Notes and Illustrations



1108 cm³



1108 cm³