

Engine & Cooling

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Automotive Technical  
**DATA BOOK**

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HELP

Engine and cooling system

Extra/Express 1.2 (F406)

1995 to 1997

|                                                   |     |           |
|---------------------------------------------------|-----|-----------|
| Type                                              |     | C3G-7-10  |
| Capacity (cm <sup>3</sup> ) / number of cylinders |     | 1238 / 4  |
| Compression ratio / pressure                      | bar | 9.2 / _   |
| Oil pressure                                      | bar | 0.7 [3.5] |
| Oil temperature                                   | °C  | 80        |
| Valve clearance - inlet                           | mm  | 0.15      |
| Valve clearance - exhaust                         | mm  | 0.20      |
| Firing order                                      |     | 1-3-4-2   |
| No 1 cylinder position                            |     | FE        |
| Thermostat opening temperature                    | °C  | 83 to 95  |
| Radiator cap pressure                             | bar | 0.9       |

Fuel system

Extra/Express 1.2 (F406)

1995 to 1997

|                                           |     |                  |
|-------------------------------------------|-----|------------------|
| Idle speed - manual [auto]                | rpm | 730±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 | %   | _                |
| O2 @ idle speed [3000 rpm] - see page VI  | %   | _                |
| Carburettor / fuel injection              |     | _Magneti-Marelli |
| Type / ref                                |     | Monopoint SPI    |
| Main jet / needle                         |     | _                |
| Injection pressure                        | bar | 1.05±0.05        |
| Pump pressure                             | bar | _                |
| Octane rating                             | RON | 95[U]            |

Ignition system

Extra/Express 1.2 (F406)

1995 to 1997

|                                 |                    |                      |
|---------------------------------|--------------------|----------------------|
| Type                            |                    | AEI                  |
| Ignition coil                   |                    | Renix                |
| Primary resistance              | ohms               | 0.4 to 0.8           |
| 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 | Computer control N/A |
| V = Vacuum    NV = No Vacuum    |                    |                      |
| Total ignition advance          | ° Crankshaft @ rpm | Computer control     |
|                                 | ° 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/NGK            |
| Type                            |                    | W9DC / BP5ESZ        |
| Electrode gap                   | mm                 | 0.75 to 0.85         |

Electrical system

Extra/Express 1.2 (F406)

1995 to 1997

|                                                     |             |                 |
|-----------------------------------------------------|-------------|-----------------|
| Battery                                             | V / CC / RC | 12 / 175 / 60   |
| Alternator voltage / full load current / engine rpm |             | 13.5 / _ / 3000 |
| Starter motor current / voltage - cranking          | A / V       | _               |
| - locked                                            | A / V       | 340 to 460 / _  |

Running gear

Extra/Express 1.2 (F406)

1995 to 1997

|                                          |    |                  |
|------------------------------------------|----|------------------|
| Brakes -                                 |    |                  |
| Front (min. friction material thickness) | mm | 6.0 with backing |
| Rear (min. friction material thickness)  | mm | 2.5 with backing |

|                                  |      |           |
|----------------------------------|------|-----------|
| Tyres                            |      |           |
| Saloon                           | Size | _         |
| Estate / Van                     | Size | 155x13    |
| Pressure - front / rear - Saloon | bar  | _         |
| - Estate / Van                   | bar  | 2.1 / 2.5 |

|                                    |        |                 |
|------------------------------------|--------|-----------------|
| Front suspension / wheel alignment |        |                 |
| Toe-in (+) / Toe-out (-)           | mm [°] | -1.0±1.0        |
| Camber                             |        | +30'±30' N/A    |
| Castor                             |        | +2°±30' N/A     |
| King pin inclination               |        | +12°10'±30' N/A |

|                                   |        |               |
|-----------------------------------|--------|---------------|
| Rear suspension / wheel alignment |        |               |
| Toe-in (+) / Toe-out (-)          | mm [°] | 0 to +3.0 N/A |
| Camber                            |        | -50'±30' N/A  |

Torque wrench settings

Extra/Express 1.2 (F406)

1995 to 1997

|                         |    |                      |
|-------------------------|----|----------------------|
| Cylinder head - stage 1 | Nm | 20                   |
| - stage 2               | Nm | + 90±4°              |
| Cylinder head - stage 3 | Nm | Wait 3 mins, slacken |
| - stage 4               | Nm | 20 + 90±4°           |
| Big-end bearings        | Nm | 35                   |
| Main bearings           | Nm | 55 to 65             |
| Clutch cover            | Nm | 25                   |
| Flywheel [driveplate]   | Nm | 50                   |
| Front hubs              | Nm | 250                  |
| Rear hubs               | Nm | 175                  |
| Wheel nuts / bolts      | Nm | 90                   |
| Spark plugs             | Nm | _                    |

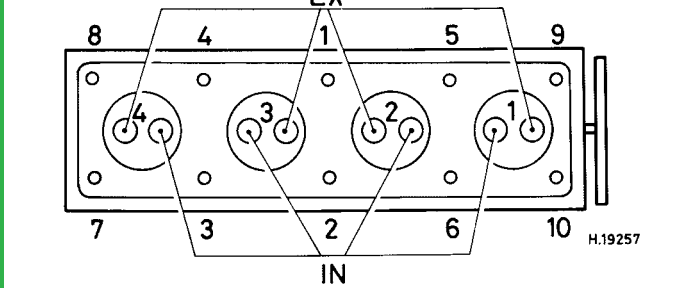
Capacities

Extra/Express 1.2 (F406)

1995 to 1997

|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 3.5 |
| Gearbox - 4-speed [5-speed]     | litres | 3.4 |
| Automatic transmission - refill | litres | _   |
| Final drive                     | litres | WT  |
| Cooling system                  | litres | 5.5 |
| Fuel tank                       | litres | 43  |

Notes and Illustrations



1238 cm³