

Engine & Cooling

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Automotive Technical  
**DATA BOOK**

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HELP

Engine and cooling systemMetro / 111 1.1i CAT1991 to 1994

|                                                   |     |              |
|---------------------------------------------------|-----|--------------|
| Type                                              |     | K8 SOHC 45kW |
| Capacity (cm <sup>3</sup> ) / number of cylinders |     | 1119 / 4     |
| Compression ratio / pressure                      | bar | 9.75 / _     |
| Oil pressure                                      | bar | 1.0          |
| Oil temperature                                   | °C  | _            |
| Valve clearance - inlet                           | mm  | 0: Hyd.      |
| Valve clearance - exhaust                         | mm  | 0: Hyd.      |
| Firing order                                      |     | 1-3-4-2      |
| No 1 cylinder position                            |     | TBE          |
| Thermostat opening temperature                    | °C  | 76 to 80     |
| Radiator cap pressure                             | bar | 0.9 to 1.0   |

Fuel systemMetro / 111 1.1i CAT1991 to 1994

|                                           |     |                        |
|-------------------------------------------|-----|------------------------|
| Idle speed - manual [auto]                | rpm | 850±50 N/A             |
| Fast idle speed - manual [auto]           | rpm | _                      |
| CO @ idle speed [3000 rpm] - see page VI  | %   | ≤0.75 N/A              |
| HC @ idle speed [3000 rpm] - see page VI  | ppm | ≤200                   |
| CO2 @ idle speed [3000 rpm] - see page VI | %   | _                      |
| O2 @ idle speed [3000 rpm] - see page VI  | %   | _                      |
| Carburettor / fuel injection              |     | Rover                  |
| Type / ref                                |     | Indirect SPI with MEMS |
| Main jet / needle                         |     | _                      |
| Injection pressure                        | bar | 1.00 to 1.10           |
| Pump pressure                             | bar | 2.7                    |
| Octane rating                             | RON | 95[U]                  |

Ignition systemMetro / 111 1.1i CAT1991 to 1994

|                                 |                    |                        |
|---------------------------------|--------------------|------------------------|
| Type                            |                    | MEMS                   |
| Ignition coil                   |                    | AUU1326 or ADU8779     |
| Primary resistance              | ohms               | 0.71 to 0.81           |
| Ballast resistor                | ohms               | _                      |
| Voltage - Tmnl 15(+) to earth   | V                  | _                      |
| Distributor                     |                    | Lucas                  |
| Points gap (air gap)            | mm                 | _                      |
| Dwell angle                     | ° (%)              | _                      |
| Condenser capacity              | µF                 | _                      |
| Rotation                        |                    | Anticlockwise          |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 15±1 BTDC @ 850±25 N/A |
| V = Vacuum NV = No Vacuum       |                    | V                      |
| 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                     |                    | Unipart/Champion       |
| Type                            |                    | GSP6662 / RC9YCC       |
| Electrode gap                   | mm                 | 0.85                   |

Electrical systemMetro / 111 1.1i CAT1991 to 1994

|                                                     |             |                           |
|-----------------------------------------------------|-------------|---------------------------|
| Battery                                             | V / CC / RC | 12 / 280 / 50 or 360 / 60 |
| Alternator voltage / full load current / engine rpm |             | 14.0 / 65 / 3000          |
| Starter motor current / voltage - cranking          | A / V       | _                         |
| - locked                                            | A / V       | _                         |

Running gearMetro / 111 1.1i CAT1991 to 1994

|                                          |    |     |
|------------------------------------------|----|-----|
| Brakes -                                 |    |     |
| Front (min. friction material thickness) | mm | 3.0 |
| Rear (min. friction material thickness)  | mm | 2.0 |

|                                  |      |           |
|----------------------------------|------|-----------|
| Tyres                            |      |           |
| Saloon                           | Size | 155/65x13 |
| Estate / Van                     | Size | _         |
| Pressure - front / rear - Saloon | bar  | 2.1 / 2.1 |
| - Estate / Van                   | bar  | _         |

|                                    |        |             |
|------------------------------------|--------|-------------|
| Front suspension / wheel alignment |        |             |
| Toe-in (+) / Toe-out (-)           | mm [°] | [0 to -25'] |
| Camber                             |        | +18'±37'    |
| Castor                             |        | +23'±55'    |
| King pin inclination               |        | +10°52'     |

|                                   |        |               |
|-----------------------------------|--------|---------------|
| Rear suspension / wheel alignment |        |               |
| Toe-in (+) / Toe-out (-)          | mm [°] | [+10' to 50'] |
| Camber                            |        | -1°±30'       |

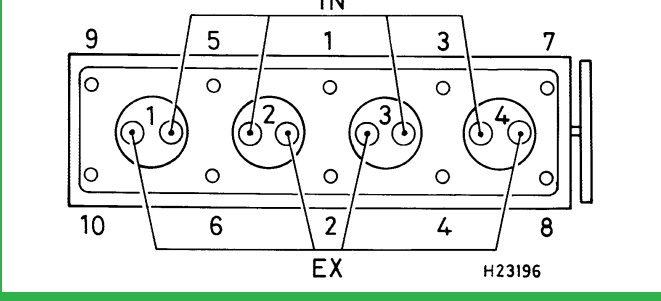
Torque wrench settingsMetro / 111 1.1i CAT1991 to 1994

|                         |    |          |
|-------------------------|----|----------|
| Cylinder head - stage 1 | Nm | 20       |
| - stage 2               | Nm | + 180°   |
| Cylinder head - stage 3 | Nm | + 180°   |
| - stage 4               | Nm | _        |
| Big-end bearings        | Nm | 20 + 45° |
| Main bearings           | Nm | WSM      |
| Clutch cover            | Nm | 18       |
| Flywheel [driveplate]   | Nm | 85 N     |
| Front hubs              | Nm | 210      |
| Rear hubs               | Nm | 90       |
| Wheel nuts / bolts      | Nm | 60 to 75 |
| Spark plugs             | Nm | 25       |

CapacitiesMetro / 111 1.1i CAT1991 to 1994

|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 4.5 |
| Gearbox - 4-speed [5-speed]     | litres | 2.0 |
| Automatic transmission - refill | litres | _   |
| Final drive                     | litres | WT  |
| Cooling system                  | litres | 4.5 |
| Fuel tank                       | litres | 33  |

Notes and Illustrations



1119 cm³