

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical  
**DATA BOOK**

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling systemMetro / 114 1.4 GTi 16V CAT1991 to 1994

|                                      |     |                   |
|--------------------------------------|-----|-------------------|
| Type                                 |     | K16 DOHC 16V 77kW |
| Capacity (cm³) / number of cylinders |     | 1397 / 4          |
| Compression ratio / pressure         | bar | 10.0 / _          |
| 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 / 114 1.4 GTi 16V CAT1991 to 1994

|                                           |     |                        |
|-------------------------------------------|-----|------------------------|
| Idle speed - manual [auto]                | rpm | 850±50                 |
| 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 MPI with MEMS |
| Main jet / needle                         |     | _                      |
| Injection pressure                        | bar | 3.0±0.2                |
| Pump pressure                             | bar | _                      |
| Octane rating                             | RON | 95[U]                  |

Ignition systemMetro / 114 1.4 GTi 16V 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 | 12.5±5 BTDC @ 875  |
| 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                            |                    | GSP6652 / RC9YCC   |
| Electrode gap                   | mm                 | 0.85               |

Electrical systemMetro / 114 1.4 GTi 16V CAT1991 to 1994

|                                                     |             |                  |
|-----------------------------------------------------|-------------|------------------|
| Battery                                             | V / CC / RC | 12 / 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 / 114 1.4 GTi 16V CAT1991 to 1994

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

|                                  |      |           |
|----------------------------------|------|-----------|
| Tyres                            |      |           |
| Saloon                           | Size | 185/55x13 |
| Estate / Van                     | Size | _         |
| Pressure - front / rear - Saloon | bar  | 2.0 / 2.0 |
| - Estate / Van                   | bar  | _         |

|                                    |        |             |
|------------------------------------|--------|-------------|
| Front suspension / wheel alignment |        |             |
| Toe-in (+) / Toe-out (-)           | mm [°] | [0 to -25'] |
| Camber                             |        | +10'±37'    |
| Castor                             |        | +2°±55'     |
| King pin inclination               |        | +10°52'     |

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

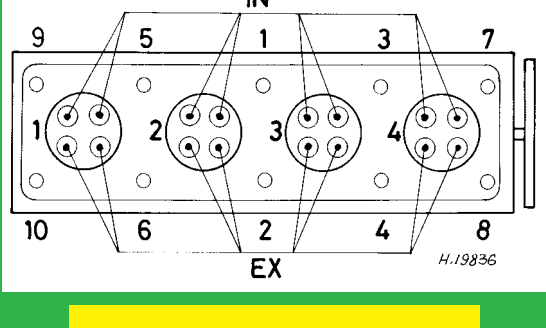
Torque wrench settingsMetro / 114 1.4 GTi 16V CAT1991 to 1994

|                         |    |          |
|-------------------------|----|----------|
| 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 / 114 1.4 GTi 16V 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



1397 cm³, DOHC 16V