

Engine & Cooling

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Automotive Technical  
**DATA BOOK**

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HELP

Engine and cooling systemMetro / 114 1.4 & CAT1990 to 1992

|                                                   |     |            |
|---------------------------------------------------|-----|------------|
| Type                                              |     | K8 SOHC    |
| Capacity (cm <sup>3</sup> ) / number of cylinders |     | 1397 / 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 / 114 1.4 & CAT1990 to 1992

|                                           |     |                             |
|-------------------------------------------|-----|-----------------------------|
| Idle speed - manual [auto]                | rpm | 850±50                      |
| Fast idle speed - manual [auto]           | rpm | 1200                        |
| CO @ idle speed [3000 rpm] - see page VI  | %   | 2.0 to 3.0. Cat: 1.0 to 3.0 |
| HC @ idle speed [3000 rpm] - see page VI  | ppm | ≤1200                       |
| CO2 @ idle speed [3000 rpm] - see page VI | %   | _                           |
| O2 @ idle speed [3000 rpm] - see page VI  | %   | _                           |
| Carburettor / fuel injection              |     | Hobourn-SU                  |
| Type / ref                                |     | KIF44 MAC10004. Cat: 10011  |
| Main jet / needle                         |     | 0.100 / BGZ                 |
| Injection pressure                        | bar | _                           |
| Pump pressure                             | bar | 0.4                         |
| Octane rating                             | RON | 97[E 95 RON] <sup>1</sup>   |

Ignition systemMetro / 114 1.4 & CAT1990 to 1992

|                                 |                    |                   |
|---------------------------------|--------------------|-------------------|
| Type                            |                    | Electronic        |
| Ignition coil                   |                    | AUU1326 / 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 | 9±1 BTDC @ 1500   |
| V = Vacuum   NV = No Vacuum     |                    | NV                |
| Total ignition advance          | ° Crankshaft @ rpm | _                 |
|                                 | ° Crankshaft @ rpm | _                 |
|                                 | ° Crankshaft @ rpm | _                 |
| Centrifugal check.              | ° Crankshaft @ rpm | 4 to 8 @ 2500     |
|                                 | ° Crankshaft @ rpm | _                 |
|                                 | ° Crankshaft @ rpm | _                 |
| Vacuum range check              | mbar               | 107 to 267        |
| Maximum vacuum advance          | ° Crankshaft       | 16                |
| Spark plugs                     |                    | Unipart/Champion  |
| Type                            |                    | GSP6662 / RC9YCC  |
| Electrode gap                   | mm                 | 0.85              |

Electrical systemMetro / 114 1.4 & CAT1990 to 1992

|                                                     |             |                           |
|-----------------------------------------------------|-------------|---------------------------|
| 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 / 114 1.4 & CAT1990 to 1992

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

|                                  |      |                          |
|----------------------------------|------|--------------------------|
| Tyres                            |      |                          |
| Saloon                           | Size | 155/65x13: 185/55x13     |
| Estate / Van                     | Size | _                        |
| Pressure - front / rear - Saloon | bar  | 2.1 / 2.1 185: 2.0 / 2.0 |
| - Estate / Van                   | bar  | _                        |

|                                    |        |                         |
|------------------------------------|--------|-------------------------|
| Front suspension / wheel alignment |        |                         |
| Toe-in (+) / Toe-out (-)           | mm [°] | [0 to -25']             |
| Camber                             |        | +18'±37'. GTa: +10'±37' |
| Castor                             |        | +23'±55'. GTa: +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 & CAT1990 to 1992

|                         |    |          |
|-------------------------|----|----------|
| 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       |

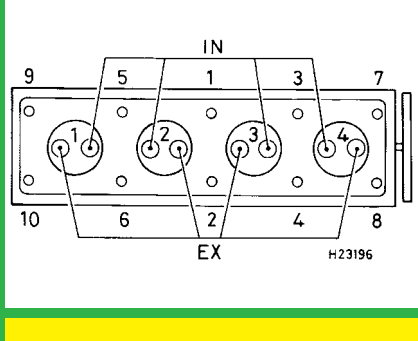
CapacitiesMetro / 114 1.4 & CAT1990 to 1992

|                                 |        |     |
|---------------------------------|--------|-----|
| 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  |

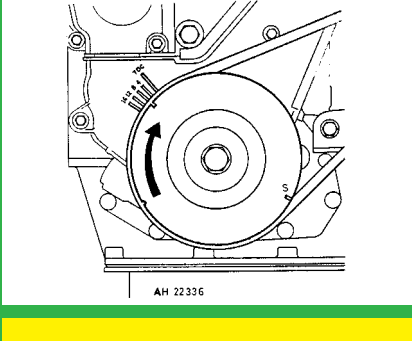
Notes and Illustrations

<sup>1</sup>CAT: [U]

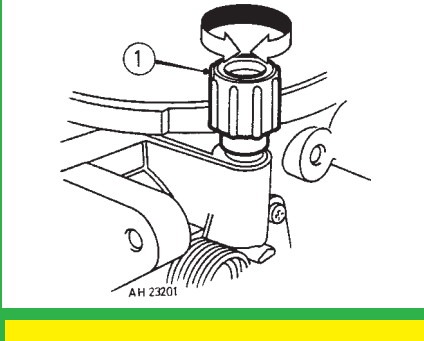
1: Idle speed      2: CO / Mixture



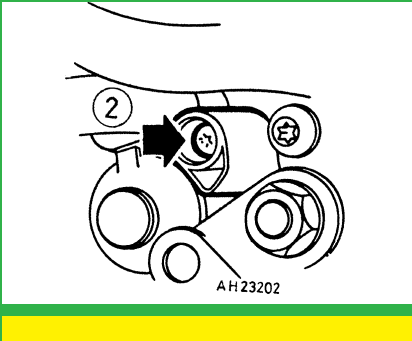
1397 cm<sup>3</sup>, 8V



1397 cm<sup>3</sup>



KIF44



KIF44