

Engine & Cooling

Fuel

Ignition

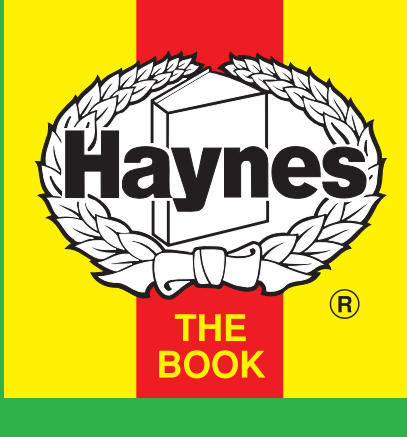
Electrical

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Automotive Technical  
**DATA BOOK**

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HELP

Engine and cooling systemBerlingo 1.11996 to 1997

|                                      |                        |           |
|--------------------------------------|------------------------|-----------|
| Type                                 | TU1M+ (HDZ) 44.1kW EGR |           |
| Capacity (cm³) / number of cylinders | 1124 / 4               |           |
| Compression ratio / pressure         | bar                    | 9.7 / _   |
| Oil pressure                         | bar                    | [≥4.0]    |
| Oil temperature                      | °C                     | 90        |
| Valve clearance - inlet              | mm                     | 0.20±0.05 |
| Valve clearance - exhaust            | mm                     | 0.40±0.05 |
| Firing order                         | 1-3-4-2                |           |
| No 1 cylinder position               | FE                     |           |
| Thermostat opening temperature       | °C                     | 89        |
| Radiator cap pressure                | bar                    | 1.4       |

Fuel systemBerlingo 1.11996 to 1997

|                                           |                |            |
|-------------------------------------------|----------------|------------|
| Idle speed - manual [auto]                | rpm            | 850±50 N/A |
| Fast idle speed - manual [auto]           | rpm            | _          |
| CO @ idle speed [3000 rpm] - see page VI  | %              | ≤0.3       |
| 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              | _ Bosch        |            |
| Type / ref                                | MA3.1-Motronic |            |
| Main jet / needle                         | _              |            |
| Injection pressure                        | bar            | 1.1        |
| Pump pressure                             | bar            | _          |
| Octane rating                             | RON            | 95[U]      |

Ignition systemBerlingo 1.11996 to 1997

|                                 |                    |                  |
|---------------------------------|--------------------|------------------|
| Type                            | Static             |                  |
| Ignition coil                   | _                  |                  |
| Primary resistance              | ohms               | _                |
| 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 |
| 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/Eyquem       |                  |
| Type                            | FR8LDC / RFC52LSP  |                  |
| Electrode gap                   | mm                 | 0.90             |

Electrical systemBerlingo 1.11996 to 1997

|                                                     |             |   |
|-----------------------------------------------------|-------------|---|
| Battery                                             | V / CC / RC | _ |
| Alternator voltage / full load current / engine rpm | _           |   |
| Starter motor current / voltage - cranking          | A / V       | _ |
| - locked                                            | A / V       | _ |

Running gearBerlingo 1.11996 to 1997

|                                          |    |     |
|------------------------------------------|----|-----|
| Brakes -                                 |    |     |
| Front (min. friction material thickness) | mm | 1.5 |
| Rear (min. friction material thickness)  | mm | 1.0 |

|                                  |      |           |
|----------------------------------|------|-----------|
| Tyres                            |      |           |
| Saloon                           | Size | _         |
| Estate / Van                     | Size | 165/70x14 |
| Pressure - front / rear - Saloon | bar  | _         |
| - Estate / Van                   | bar  | 2.4 / 2.6 |

|                                    |           |          |
|------------------------------------|-----------|----------|
| Front suspension / wheel alignment |           |          |
| Toe-in (+) / Toe-out (-)           | mm [°]    | -1.0±1.0 |
| Camber                             | 0±1°      |          |
| Castor                             | _         |          |
| King pin inclination               | +10°8'±1° |          |

|                                   |           |   |
|-----------------------------------|-----------|---|
| Rear suspension / wheel alignment |           |   |
| Toe-in (+) / Toe-out (-)          | mm [°]    | _ |
| Camber                            | +1°15'±1° |   |

Torque wrench settingsBerlingo 1.11996 to 1997

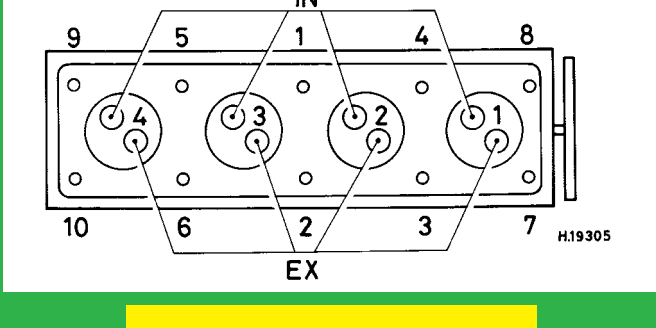
|                         |    |                            |
|-------------------------|----|----------------------------|
| Cylinder head - stage 1 | Nm | Bolts ≤175.5mm below heads |
| - stage 2               | Nm | 20 oiled                   |
| Cylinder head - stage 3 | Nm | + 240±5°                   |
| - stage 4               | Nm | _                          |
| Big-end bearings        | Nm | 40                         |
| Main bearings           | Nm | 20 + 45°                   |
| Clutch cover            | Nm | 13                         |
| Flywheel [driveplate]   | Nm | 65 LkC                     |
| Front hubs              | Nm | 320                        |
| Rear hubs               | Nm | 275                        |
| Wheel nuts / bolts      | Nm | _                          |
| Spark plugs             | Nm | 25                         |

CapacitiesBerlingo 1.11996 to 1997

|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 3.5 |
| Gearbox - 4-speed [5-speed]     | litres | 2.0 |
| Automatic transmission - refill | litres | _   |
| Final drive                     | litres | WT  |
| Cooling system                  | litres | 6.5 |
| Fuel tank                       | litres | 55  |

Notes and Illustrations

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1124 cm³