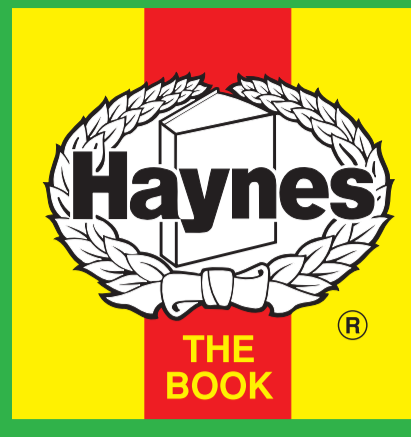


|                  |      |          |            |              |                 |            |                       |
|------------------|------|----------|------------|--------------|-----------------|------------|-----------------------|
| Engine & Cooling | Fuel | Ignition | Electrical | Running gear | Torque settings | Capacities | Notes & Illustrations |
|------------------|------|----------|------------|--------------|-----------------|------------|-----------------------|



# Automotive Technical DATA BOOK

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### Engine and cooling system Fiorino 1500 CAT 1991 to 1995

|   |                           |               |
|---|---------------------------|---------------|
| Type  | 149 C1.000 SOHC 55kW US83 |               |
| Capacity (cm <sup>3</sup> ) / number of cylinders | 1499 / 4                  |               |
| Compression ratio / pressure                      | bar                       | 8.53±0.15 / _ |
| Oil pressure                                      | bar                       | [3.4 to 4.9]  |
| Oil temperature                                   | °C                        | 100           |
| Valve clearance - inlet                           | mm                        | 0.40±0.05     |
| Valve clearance - exhaust                         | mm                        | 0.50±0.05     |
| Firing order                                      | 1-3-4-2                   |               |
| No 1 cylinder position                            | TBE                       |               |
| Thermostat opening temperature                    | °C                        | 83 to 87      |
| Radiator cap pressure                             | bar                       | 0.98          |

### Fuel system Fiorino 1500 CAT 1991 to 1995

|   |                   |                |
|---|-------------------|----------------|
| Idle speed - manual [auto]                            | rpm               | 850±50 N/A     |
| Fast idle speed - manual [auto]                       | rpm               | _              |
| CO @ idle speed [3000 rpm] - see page VI              | %                 | 0.4 to 1.0 N/A |
| HC @ idle speed [3000 rpm] - see page VI              | ppm               | ≤500           |
| CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI | %                 | _              |
| O <sub>2</sub> @ idle speed [3000 rpm] - see page VI  | %                 | _              |
| Carburettor / fuel injection                          | Bosch             |                |
| Type / ref  | Mono-Jetronic SPI |                |
| Main jet / needle                                     | _                 |                |
| Injection pressure                                    | bar               | _              |
| Pump pressure   | bar               | 1.0±0.2        |
| Octane rating   | RON               | 95[U]          |

### Ignition system Fiorino 1500 CAT 1991 to 1995

|                                 |                    |                          |
|---------------------------------|--------------------|--------------------------|
| Type                            | Digiplex           |                          |
| Ignition coil                   | Marelli BAE 504 D  |                          |
| Primary resistance              | ohms               | 0.405 to 0.495           |
| Ballast resistor                | ohms               | _                        |
| Voltage - Tmnl 15(+) to earth   | V                  | _                        |
| Distributor                     | Marelli            |                          |
| Points gap (air gap)            | mm                 | [0.30 to 0.40]           |
| Dwell angle                     | ° (%)              | _                        |
| Condenser capacity              | µF                 | _                        |
| Rotation                        | Clockwise          |                          |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 5±2 BTDC @ 800 to 850    |
| V = Vacuum    NV = No Vacuum    | NV                 |                          |
| Total ignition advance          | ° Crankshaft @ rpm | 36±2 BTDC @ 4000 to 6000 |
| Centrifugal check.              | ° Crankshaft @ rpm | Computer control         |
| Vacuum range check              | mbar               | Computer control         |
| Maximum vacuum advance          | ° Crankshaft       | _                        |
| Spark plugs                     | Champion           |                          |
| Type                            | RN7YCC             |                          |
| Electrode gap                   | mm                 | 0.70 to 0.80             |

### Electrical system Fiorino 1500 CAT 1991 to 1995

|   |                              |                         |
|---|------------------------------|-------------------------|
| Battery   | V / CC / RC                  | 12 / 185 / 40           |
| Alternator voltage / full load current / engine rpm | 14.0 to 14.3 / 63, 65 / 3000 |                         |
| Starter motor current / voltage - cranking          | A / V                        | 170 to 220 / 9.4 to 9.8 |
| - locked  | A / V                        | 330 to 480 / 6.7 to 7.1 |

### Running gear Fiorino 1500 CAT 1991 to 1995

|  |    |     |
|--|----|-----|
| <b>Brakes -</b>                          |    |     |
| Front (min. friction material thickness) | mm | 1.5 |
| Rear (min. friction material thickness)  | mm | 1.5 |

|                                  |      |           |
|----------------------------------|------|-----------|
| <b>Tyres</b>                     |      |           |
| Saloon                           | Size | _         |
| Estate / Van                     | Size | 165/70x13 |
| Pressure - front / rear - Saloon | bar  | _         |
| - Estate / Van                   | bar  | 1.9 / 1.9 |

### Front suspension / wheel alignment

|                          |                                     |          |
|--------------------------|-------------------------------------|----------|
| Toe-in (+) / Toe-out (-) | mm [°]                              | -3.0±1.0 |
| Camber                   | +35'±30'                            |          |
| Castor                   | +20'±30'. PU: +25'±30' <sup>1</sup> |          |
| King pin inclination     | _                                   |          |

### Rear suspension / wheel alignment

|                          |                            |          |
|--------------------------|----------------------------|----------|
| Toe-in (+) / Toe-out (-) | mm [°]                     | +5.0±2.0 |
| Camber                   | Van: -55'±30' <sup>2</sup> |          |

### Torque wrench settings Fiorino 1500 CAT 1991 to 1995

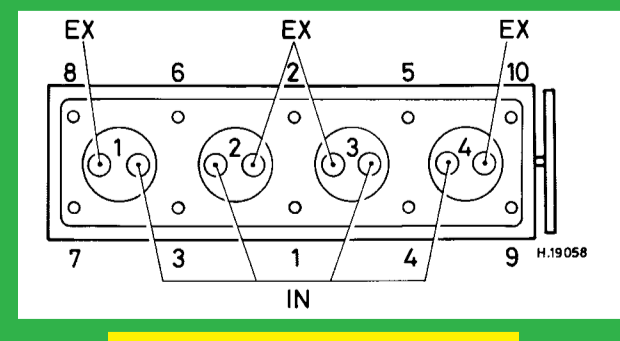
|                         |    |                   |
|-------------------------|----|-------------------|
| Cylinder head - stage 1 | Nm | 20 <sup>3</sup>   |
| - stage 2               | Nm | 40 <sup>3</sup>   |
| Cylinder head - stage 3 | Nm | + 90 <sup>3</sup> |
| - stage 4               | Nm | + 90 <sup>3</sup> |
| Big-end bearings        | Nm | 51                |
| Main bearings           | Nm | 80                |
| Clutch cover            | Nm | 16                |
| Flywheel [driveplate]   | Nm | 83                |
| Front hubs              | Nm | 216               |
| Rear hubs               | Nm | 216               |
| Wheel nuts / bolts      | Nm | 86                |
| Spark plugs             | Nm | 25 to 30          |

### Capacities Fiorino 1500 CAT 1991 to 1995

|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 4.1 |
| Gearbox - 4-speed [5-speed]     | litres | 3.4 |
| Automatic transmission - refill | litres | _   |
| Final drive                     | litres | WT  |
| Cooling system                  | litres | 7.0 |
| Fuel tank                       | litres | 54  |

### Notes and Illustrations

<sup>1</sup>Combi: +35'±30'  
<sup>2</sup>Combi: -1°10'±30'. PU: -30'±30'  
<sup>3</sup>Additional bolts: 30



1499 cm<sup>3</sup>