

Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



Automotive Technical  
DATA BOOK

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Engine and cooling system

Cinquecento 899 CAT1993 to 1997

|                                      |     |                           |
|--------------------------------------|-----|---------------------------|
| Type                                 |     | 1170 A1.046 OHV 29kW US83 |
| Capacity (cm³) / number of cylinders |     | 899 / 4                   |
| Compression ratio / pressure         | bar | 8.8 / _                   |
| Oil pressure                         | bar | [2.9 to 3.9]              |
| Oil temperature                      | °C  | 100                       |
| Valve clearance - inlet              | mm  | 0: Hyd.                   |
| Valve clearance - exhaust            | mm  | 0: Hyd.                   |
| Firing order                         |     | 1-3-4-2                   |
| No 1 cylinder position               |     | TCE                       |
| Thermostat opening temperature       | °C  | 85 to 89                  |
| Radiator cap pressure                | bar | 0.98                      |

Fuel system

Cinquecento 899 CAT1993 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              |     | Weber-Marelli |
| Type / ref                                |     | IAW SPI 6F.SO |
| Main jet / needle                         |     | _             |
| Injection pressure                        | bar | 1.1±0.2       |
| Pump pressure                             | bar | ≤2.6          |
| Octane rating                             | RON | 95[U]         |

Ignition system

Cinquecento 899 CAT1993 to 1997

|                                 |                    |                              |
|---------------------------------|--------------------|------------------------------|
| Type                            |                    | IAW Static                   |
| Ignition coil                   |                    | 2x BAE 800 AK                |
| Primary resistance              | ohms               | 0.495 to 0.605               |
| Ballast resistor                | ohms               | _                            |
| Voltage - Tmnl 15(+) to earth   | V                  | _                            |
| Distributor                     |                    | Weber-Marelli                |
| Points gap (air gap)            | mm                 | _                            |
| Dwell angle                     | ° (%)              | _                            |
| Condenser capacity              | µF                 | _                            |
| Rotation                        |                    | Clockwise                    |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 13±1.5 BTDC @ 850 to 900 N/A |
| V = Vacuum NV = No Vacuum       |                    | _                            |
| Total ignition advance          | ° Crankshaft @ rpm | _                            |
|                                 | ° Crankshaft @ rpm | _                            |
|                                 | ° Crankshaft @ rpm | _                            |
| Centrifugal check.              | ° Crankshaft @ rpm | Computer                     |
|                                 | ° Crankshaft @ rpm | _                            |
|                                 | ° Crankshaft @ rpm | _                            |
| Vacuum range check              | mbar               | Computer                     |
| Maximum vacuum advance          | ° Crankshaft       | _                            |
| Spark plugs                     |                    | Champion                     |
| Type                            |                    | RN9YCC                       |
| Electrode gap                   | mm                 | 0.85 to 0.95                 |

Electrical system

Cinquecento 899 CAT1993 to 1997

|                                                     |             |                          |
|-----------------------------------------------------|-------------|--------------------------|
| Battery                                             | V / CC / RC | 12 / 200 / 40Ah          |
| Alternator voltage / full load current / engine rpm |             | 14.0 to 14.3 / 55 / 3500 |
| Starter motor current / voltage - cranking          | A / V       | 180 / 9.1                |
| - locked                                            | A / V       | 324 / 7.1                |

Running gear

Cinquecento 899 CAT1993 to 1997

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

|                                  |      |                      |
|----------------------------------|------|----------------------|
| Tyres                            |      |                      |
| Saloon                           | Size | 145/70x13: 155/65x13 |
| 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±1.0          |
| Camber                             |        | +30'±30' N/A   |
| Castor                             |        | +1°50'±30' N/A |
| King pin inclination               |        | _              |

|                                   |        |              |
|-----------------------------------|--------|--------------|
| Rear suspension / wheel alignment |        |              |
| Toe-in (+) / Toe-out (-)          | mm [°] | 0±3.0 N/A    |
| Camber                            |        | +20'±30' N/A |

Torque wrench settings

Cinquecento 899 CAT1993 to 1997

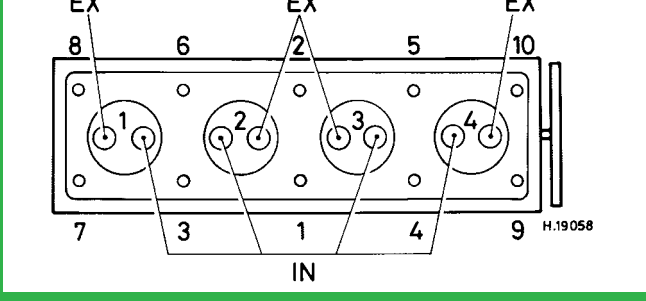
|                         |    |       |
|-------------------------|----|-------|
| Cylinder head - stage 1 | Nm | 20    |
| - stage 2               | Nm | 40    |
| Cylinder head - stage 3 | Nm | + 90° |
| - stage 4               | Nm | + 90° |
| Big-end bearings        | Nm | 41    |
| Main bearings           | Nm | 69    |
| Clutch cover            | Nm | 10    |
| Flywheel [driveplate]   | Nm | 44    |
| Front hubs              | Nm | WSM   |
| Rear hubs               | Nm | 216   |
| Wheel nuts / bolts      | Nm | 86    |
| Spark plugs             | Nm | 32    |

Capacities

Cinquecento 899 CAT1993 to 1997

|                                 |        |      |
|---------------------------------|--------|------|
| Engine oil & filter             | litres | 3.75 |
| Gearbox - 4-speed [5-speed]     | litres | 2.4  |
| Automatic transmission - refill | litres | _    |
| Final drive                     | litres | WT   |
| Cooling system                  | litres | 4.8  |
| Fuel tank                       | litres | 35   |

Notes and Illustrations



899 cm³