

Engine & Cooling

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Automotive Technical  
**DATA BOOK**

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HELP

Engine and cooling systemMarbella 900 CAT1992 to 1995

|                                      |     |              |
|--------------------------------------|-----|--------------|
| Type                                 |     | OHV 30kW     |
| Capacity (cm³) / number of cylinders |     | 903 / 4      |
| Compression ratio / pressure         | bar | 8.5 / ≥9.5   |
| Oil pressure                         | bar | [2.9 to 3.9] |
| Oil temperature                      | °C  | 100          |
| Valve clearance - inlet              | mm  | 0.15±0.05    |
| - exhaust                            | mm  | 0.20±0.05    |
| Firing order                         |     | 1-3-4-2      |
| No 1 cylinder position               |     | TCE          |
| Thermostat opening temperature       | °C  | 85           |
| Radiator cap pressure                | bar | 1.0          |

Fuel systemMarbella 900 CAT1992 to 1995

|                                           |     |                |
|-------------------------------------------|-----|----------------|
| Idle speed - manual [auto]                | rpm | 850±50         |
| Fast idle speed - manual [auto]           | rpm | —              |
| CO @ idle speed [3000 rpm] - see page VI  | %   | 0.5 to 0.7     |
| 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              |     | Weber          |
| Type / ref                                |     | 32 ICEV 70/100 |
| Main jet / needle                         |     | 130            |
| Injection pressure                        | bar | —              |
| Pump pressure                             | bar | —              |
| Octane rating                             | RON | 95[U]          |

Ignition systemMarbella 900 CAT1992 to 1995

|                                 |                    |                  |
|---------------------------------|--------------------|------------------|
| Type                            |                    | Electronic       |
| Ignition coil                   |                    | —                |
| Primary resistance              | ohms               | 0.5 to 0.6       |
| Ballast resistor                | ohms               | —                |
| Voltage - Tmnl 15(+) to earth   | V                  | —                |
| Distributor                     |                    | Marelli/Femsa    |
| Points gap (air gap)            | mm                 | —                |
| Dwell angle                     | ° (%)              | —                |
| Condenser capacity              | µF                 | —                |
| Rotation                        |                    | Clockwise        |
| Ignition timing - basic [static | ° Crankshaft @ rpm | 5 BTDC @ 850±50  |
| V = Vacuum NV = No Vacuum       |                    | —                |
| 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                     |                    | Bosch/Champion   |
| Type                            |                    | WR7DC / RN12YC   |
| Electrode gap                   | mm                 | 0.70 to 0.80     |

Electrical systemMarbella 900 CAT1992 to 1995

|                                                     |             |                         |
|-----------------------------------------------------|-------------|-------------------------|
| Battery                                             | V / CC / RC | 12 / 32Ah               |
| Alternator voltage / full load current / engine rpm |             | 14.0 / 33 / 3000        |
| Starter motor current / voltage - cranking          | A / V       | —                       |
| - locked                                            | A / V       | 310 to 360 / 6.6 to 7.2 |

Running gearMarbella 900 CAT1992 to 1995

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

|                                  |      |                   |
|----------------------------------|------|-------------------|
| Tyres                            |      |                   |
| Saloon                           | Size | 135x13: 145/70x13 |
| Estate / Van                     | Size | —                 |
| Pressure - front / rear - Saloon | bar  | 2.0 / 1.9         |
| - Estate / Van                   | bar  | —                 |

|                                    |        |            |
|------------------------------------|--------|------------|
| Front suspension / wheel alignment |        |            |
| Toe-in (+) / Toe-out (–)           | mm [°] | 0.3±2.0    |
| Camber                             |        | +1°25'±30' |
| Castor                             |        | +1°40'±30' |
| King pin inclination               |        | —          |

|                                   |        |   |
|-----------------------------------|--------|---|
| Rear suspension / wheel alignment |        |   |
| Toe-in (+) / Toe-out (–)          | mm [°] | — |
| Camber                            |        | — |

Torque wrench settingsMarbella 900 CAT1992 to 1995

|                         |    |     |
|-------------------------|----|-----|
| Cylinder head - stage 1 | Nm | 30  |
| - stage 2               | Nm | 59  |
| - stage 3               | Nm | —   |
| - stage 4               | Nm | —   |
| Big-end bearings        | Nm | 51  |
| Main bearings           | Nm | 80  |
| Clutch cover            | Nm | 16  |
| Flywheel [driveplate]   | Nm | 85  |
| Front hubs              | Nm | 196 |
| Rear hubs               | Nm | 57  |
| Wheel nuts / bolts      | Nm | 86  |
| Spark plugs             | Nm | 32  |

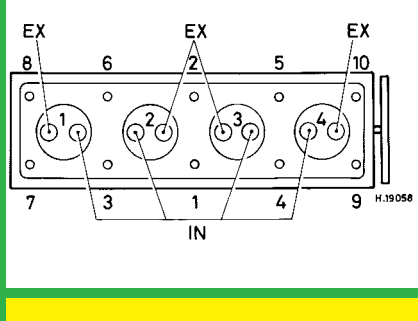
CapacitiesMarbella 900 CAT1992 to 1995

|                                 |        |     |
|---------------------------------|--------|-----|
| Engine oil & filter             | litres | 3.6 |
| Gearbox - 4-speed [5-speed]     | litres | 2.4 |
| Automatic transmission - refill | litres | —   |
| Final drive                     | litres | WT  |
| Cooling system                  | litres | 5.2 |
| Fuel tank                       | litres | 35  |

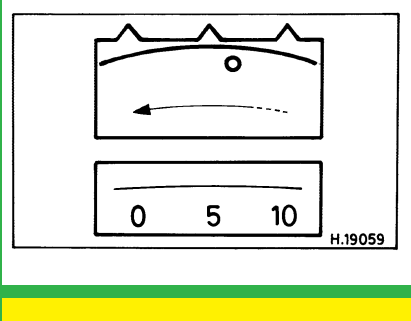
Notes and Illustrations



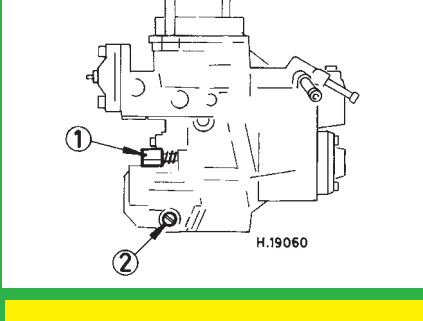
1: Idle speed      2: CO / Mixture



903 cm³



903 cm³



32 ICEV