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Automotive Technical DATA BOOK

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HELP

Engine and cooling system Croma 2.0ie Turbo 1990 to 1992

| | | |
|---|-----------------------|--------------|
| Type | 154 C4.000 114kW DOHC | |
| Capacity (cm ³) / number of cylinders | 1995 / 4 | |
| Compression ratio / pressure | bar | 8.0±0.15 / _ |
| Oil pressure | bar | [2.8 to 5.5] |
| Oil temperature | °C | 100 |
| Valve clearance - inlet | mm | 0.34±0.04 |
| Valve clearance - exhaust | mm | 0.39±0.04 |
| Firing order | 1-3-4-2 | |
| No 1 cylinder position | TBE | |
| Thermostat opening temperature | °C | 81 to 85 |
| Radiator cap pressure | bar | 0.98 |

Fuel system Croma 2.0ie Turbo 1990 to 1992

| | | |
|---|-------------------------|--------------|
| Idle speed - manual [auto] | rpm | 850±50 |
| Fast idle speed - manual [auto] | rpm | _ |
| CO @ idle speed [3000 rpm] - see page VI | % | 1.5±0.3 |
| HC @ idle speed [3000 rpm] - see page VI | ppm | ≤1200 |
| CO ₂ @ idle speed [3000 rpm] - see page VI | % | _ |
| O ₂ @ idle speed [3000 rpm] - see page VI | % | _ |
| Carburettor / fuel injection | Bosch | |
| Type / ref | LE2-Jetronic plus Turbo | |
| Main jet / needle | _ | |
| Injection pressure | bar | 3.0±0.2 |
| Pump pressure | bar | ≤4.5 |
| Octane rating | RON | 95[E 95 RON] |

Ignition system Croma 2.0ie Turbo 1990 to 1992

| | | |
|---|--------------------|------------------------|
| Type | Microplex | |
| Ignition coil | Marelli BAE 504D | |
| Primary resistance | ohms | 0.405 to 0.495 |
| Ballast resistor | ohms | _ |
| Voltage - Tmnl 15(+) to earth | V | _ |
| Distributor | Marelli | |
| Points gap (air gap) | mm | _ |
| Dwell angle | ° (%) | _ |
| Condenser capacity | µF | _ |
| Rotation | _ | |
| Ignition timing - basic [static V = Vacuum NV = No Vacuum] | ° Crankshaft @ rpm | 3±1.5 BTDC @ 0 to 2500 |
| Total ignition advance | ° Crankshaft @ rpm | 37±1.5 @ 3500 to 4000 |
| | ° 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 | |
| Type | WR6DTC | |
| Electrode gap | mm | 0.80 to 1.00 |

Electrical system Croma 2.0ie Turbo 1990 to 1992

| | | |
|---|------------------------------|-------------------|
| Battery | V / CC / RC | 12 / 320 / 60 |
| Alternator voltage / full load current / engine rpm | 14.3 to 14.6 / 65, 90 / 3500 | |
| Starter motor current / voltage - cranking | A / V | 280 to 360 / 8.15 |
| - locked | A / V | 680 to 700 / 4.9 |

Running gear Croma 2.0ie Turbo 1990 to 1992

| | | |
|---|--------|--------------|
| Brakes - | | |
| Front (min. friction material thickness) | mm | 1.5 |
| Rear (min. friction material thickness) | mm | 1.5 |
| Tyres | | |
| Saloon | Size | 195/60x14 |
| Estate / Van | Size | _ |
| Pressure - front / rear - Saloon | bar | 2.2 / 2.2 |
| - Estate / Van | bar | _ |
| Front suspension / wheel alignment | | |
| Toe-in (+) / Toe-out (-) | mm [°] | -1.0 to +1.0 |
| Camber | | -20'±20' |
| Castor | | +2°50'±20' |
| King pin inclination | | _ |
| Rear suspension / wheel alignment | | |
| Toe-in (+) / Toe-out (-) | mm [°] | +2.0 to 5.0 |
| Camber | | -20'±20' |

Torque wrench settings Croma 2.0ie Turbo 1990 to 1992

| | | |
|-------------------------|----|-----------------|
| Cylinder head - stage 1 | Nm | 20 |
| - stage 2 | Nm | 40 |
| Cylinder head - stage 3 | Nm | + 90° |
| - stage 4 | Nm | + 90° |
| Big-end bearings | Nm | 25 + 50° |
| Main bearings | Nm | 20 ¹ |
| Clutch cover | Nm | 20 |
| Flywheel [driveplate] | Nm | 142 |
| Front hubs | Nm | 360 locked |
| Rear hubs | Nm | 320 |
| Wheel nuts / bolts | Nm | 86 |
| Spark plugs | Nm | 37 |

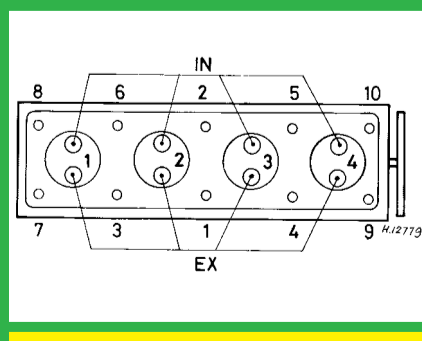
Capacities Croma 2.0ie Turbo 1990 to 1992

| | | |
|---------------------------------|--------|------------|
| Engine oil & filter | litres | 5.5 |
| Gearbox - 4-speed [5-speed] | litres | 1.5 to 1.6 |
| Automatic transmission - refill | litres | 3.3 |
| Final drive | litres | WT |
| Cooling system | litres | 9.0 |
| Fuel tank | litres | 70 |

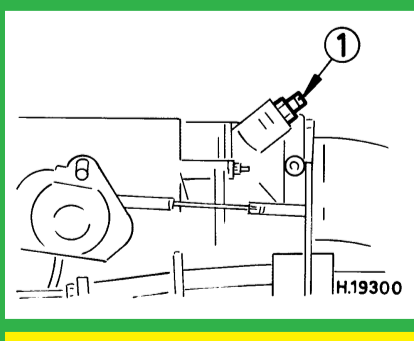
Notes and Illustrations

¹Centre bearing: + 120°. Others: + 80°

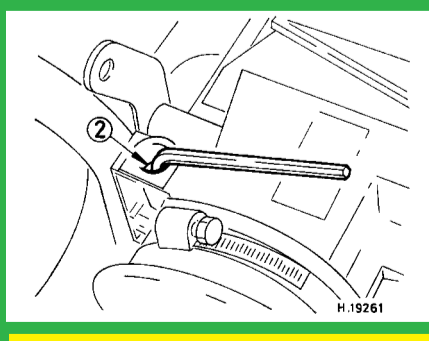
1: Idle speed 2: CO / Mixture



1995 cm³, 8V



LE2-Jetronic



LE2-Jetronic