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Automotive Technical DATA BOOK

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Engine and cooling system Maverick 2.4i 1993 to 1996

| | | |
|---|-----------------------------|--------------|
| Type | KA24E. BF. 91kW. 91/441/EEC | |
| Capacity (cm ³) / number of cylinders | 2389 / 4 | |
| Compression ratio / pressure | bar | 8.6 / 13.24 |
| Oil pressure | bar | [4.1 to 4.8] |
| Oil temperature | °C | 80 |
| 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 | 76.5 |
| Radiator cap pressure | bar | 0.78 to 0.98 |

Fuel system Maverick 2.4i 1993 to 1996

| | | |
|---|---------|--------------|
| Idle speed - manual [auto] | rpm | 800±50 |
| Fast idle speed - manual [auto] | rpm | — |
| CO @ idle speed [3000 rpm] - see page VI | % | — |
| HC @ idle speed [3000 rpm] - see page VI | ppm | — |
| CO ₂ @ idle speed [3000 rpm] - see page VI | % | — |
| O ₂ @ idle speed [3000 rpm] - see page VI | % | — |
| Carburettor / fuel injection | — | |
| Type / ref | PCM EFI | |
| Main jet / needle | — | |
| Injection pressure | bar | 2.26 to 2.94 |
| Pump pressure | bar | — |
| Octane rating | RON | 91[U] |

Ignition system Maverick 2.4i 1993 to 1996

| | | |
|---------------------------------|--------------------|------------------|
| Type | Computerized | |
| 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 | 10±2 BTDC @ ≤850 |
| V = Vacuum NV = No Vacuum | — | |
| Total ignition advance | ° Crankshaft @ rpm | Computer control |
| Centrifugal check. | ° Crankshaft @ rpm | Computer control |
| Vacuum range check | mbar | Computer control |
| Maximum vacuum advance | ° Crankshaft | — |
| Spark plugs | _/Champion | |
| Type | RN9YCC | |
| Electrode gap | mm | 0.80 |

Electrical system Maverick 2.4i 1993 to 1996

| | | |
|---|--------------------|---|
| Battery | V / CC / RC | — |
| Alternator voltage / full load current / engine rpm | 14 / 60, 65, 70/ _ | |
| Starter motor current / voltage - cranking | A / V | — |
| - locked | A / V | — |

Running gear Maverick 2.4i 1993 to 1996

| | | |
|---|-----------------|----------------------|
| Brakes - | | |
| Front (min. friction material thickness) | mm | 2.0 |
| Rear (min. friction material thickness) | mm | 2.0 |
| Tyres | | |
| Saloon | Size | — |
| Estate / Van | Size | 215/80x15: 235/75x15 |
| Pressure - front / rear - Saloon | bar | — |
| - Estate / Van | bar | 3D: 1.8 / 2.2' |
| Front suspension / wheel alignment | | |
| Toe-in (+) / Toe-out (-) | mm [°] | +3.0 to 5.0 |
| Camber | 0 to +1° | |
| Castor | +1°10' to 2°10' | |
| King pin inclination | +7°36' to 8°36' | |
| Rear suspension / wheel alignment | | |
| Toe-in (+) / Toe-out (-) | mm [°] | — |
| Camber | — | |

Torque wrench settings Maverick 2.4i 1993 to 1996

| | | |
|-------------------------|----|------------------|
| Cylinder head - stage 1 | Nm | 29 |
| - stage 2 | Nm | 78 |
| Cylinder head - stage 3 | Nm | - 360° (slacken) |
| - stage 4 | Nm | 29 + 83° |
| Big-end bearings | Nm | 15 + 63° |
| Main bearings | Nm | 49 |
| Clutch cover | Nm | 26 |
| Flywheel [driveplate] | Nm | 147 |
| Front hubs | Nm | WSM |
| Rear hubs | Nm | WSM |
| Wheel nuts / bolts | Nm | 123 |
| Spark plugs | Nm | 25 |

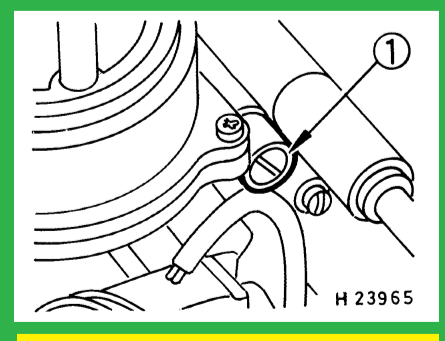
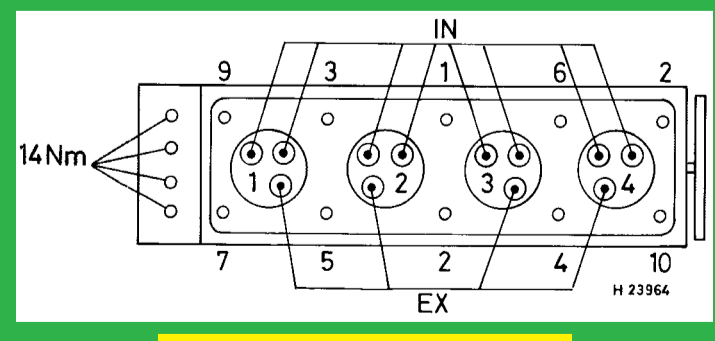
Capacities Maverick 2.4i 1993 to 1996

| | | |
|---------------------------------|--------|--------------------|
| Engine oil & filter | litres | 4.3 |
| Gearbox - 4-speed [5-speed] | litres | 3.5. Transfer: 2.3 |
| Automatic transmission - refill | litres | — |
| Final drive | litres | Rear: 2.8 |
| Cooling system | litres | 6.9 |
| Fuel tank | litres | 3D: 72. 5D: 80 |

Notes and Illustrations

5D: 1.9 / 2.5

1: Idle speed 2: CO / Mixture



2389 cm³, 12V

PCM EFI