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Automotive Technical DATA BOOK

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HELP

Engine and cooling system Mondeo 2.5i 24V 1994 to 1996

| | | |
|---|----------------------|----------------------------|
| Type | SEA Duratec VE 125kW | |
| Capacity (cm ³) / number of cylinders | 2544 / 6 | |
| Compression ratio / pressure | bar | 9.7 / 9.0 to 15.0 |
| Oil pressure | bar | 0.5 [3.0 to 3.5 @ 3000rpm] |
| Oil temperature | °C | 80 |
| Valve clearance - inlet | mm | 0: Hyd. |
| Valve clearance - exhaust | mm | 0: Hyd. |
| Firing order | 1-4-2-5-3-6 | |
| No 1 cylinder position | - | |
| Thermostat opening temperature | °C | - |
| Radiator cap pressure | bar | On cap |

Fuel system Mondeo 2.5i 24V 1994 to 1996

| | | |
|---|-------------|---------|
| Idle speed - manual [auto] | rpm | 725 N/A |
| 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 | _Ford | |
| Type / ref | EEC IV SEFI | |
| Main jet / needle | - | |
| Injection pressure | bar | - |
| Pump pressure | bar | - |
| Octane rating | RON | 95[U] |

Ignition system Mondeo 2.5i 24V 1994 to 1996

| | | |
|---------------------------------|--------------------|----------------------|
| Type | EEC IV | |
| Ignition coil | - | |
| Primary resistance | ohms | - |
| Ballast resistor | ohms | - |
| Voltage - Tmnl 15(+) to earth | V | - |
| Distributor | - | |
| Points gap (air gap) | mm | - |
| Dwell angle | ° (%) | N/A |
| Condenser capacity | µF | - |
| Rotation | - | |
| Ignition timing - basic [static | ° Crankshaft @ rpm | Computer control N/A |
| V = Vacuum NV = No Vacuum | - | |
| Total ignition advance | ° Crankshaft @ rpm | Computer control |
| | ° 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 | _/Champion | |
| Type | RC9YCC4 | |
| Electrode gap | mm | 1.00 |

Electrical system Mondeo 2.5i 24V 1994 to 1996

| | | |
|---|---------------------------|---|
| Battery | V / CC / RC | - |
| Alternator voltage / full load current / engine rpm | 14.0 to 14.6 / 90, 95 / - | |
| Starter motor current / voltage - cranking | A / V | - |
| - locked | A / V | - |

Running gear Mondeo 2.5i 24V 1994 to 1996

| | | |
|---|--------|----------------------|
| Brakes - | | |
| Front (min. friction material thickness) | mm | - |
| Rear (min. friction material thickness) | mm | - |
| Tyres | | |
| Saloon | Size | 195/60x15: 205/55x15 |
| Estate / Van | Size | - |
| Pressure - front / rear - Saloon | bar | 2.1 / 2.1 |
| - Estate / Van | bar | - |
| Front suspension / wheel alignment | | |
| Toe-in (+) / Toe-out (-) | mm [°] | - 0°20' ± 10' |
| Camber | | -35'±1°15' |
| Castor | | 2°21'±1°15' |
| King pin inclination | - | |
| Rear suspension / wheel alignment | | |
| Toe-in (+) / Toe-out (-) | mm [°] | + 0°18' ± 12' |
| Camber | | -37'±1° |

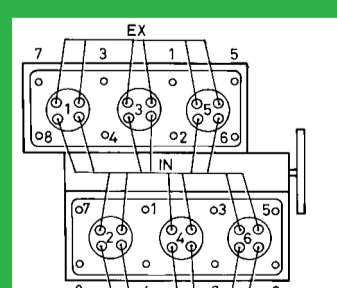
Torque wrench settings Mondeo 2.5i 24V 1994 to 1996

| | | |
|-------------------------|----|-----------------|
| Cylinder head - stage 1 | Nm | 40 |
| - stage 2 | Nm | + 90°, loosen |
| Cylinder head - stage 3 | Nm | 40 |
| - stage 4 | Nm | + 90°, + 90° |
| Big-end bearings | Nm | 40, + 90° oiled |
| Main bearings | Nm | 40, + 90° |
| Clutch cover | Nm | 30 |
| Flywheel [driveplate] | Nm | 80 |
| Front hubs | Nm | 340 |
| Rear hubs | Nm | 340 |
| Wheel nuts / bolts | Nm | 85 |
| Spark plugs | Nm | 14 |

Capacities Mondeo 2.5i 24V 1994 to 1996

| | | |
|---------------------------------|--------|------|
| Engine oil & filter | litres | 5.5 |
| Gearbox - 4-speed [5-speed] | litres | 2.6 |
| Automatic transmission - refill | litres | 7.2 |
| Final drive | litres | WT |
| Cooling system | litres | 7.5 |
| Fuel tank | litres | 61.5 |

Notes and Illustrations



2544 cm³, 24V