

Engine & Cooling

Fuel

Ignition

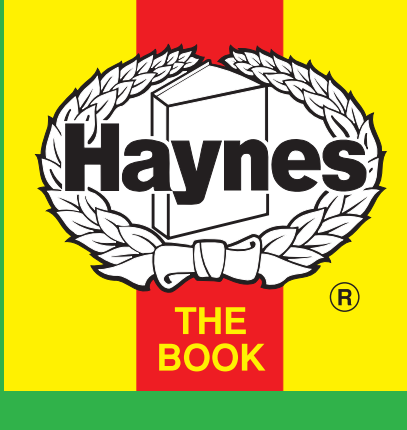
Electrical

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

Mondeo 1.6i

1993 to 1996

Type	Zetec L1F/J 16V EEC96 66kW	
Capacity (cm ³) / number of cylinders	1597 / 4	
Compression ratio / pressure	bar	10.3 / _
Oil pressure	bar	_
Oil temperature	°C	_
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	1-3-4-2	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	_

Fuel system

Mondeo 1.6i

1993 to 1996

Idle speed - manual [auto]	rpm	880±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
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	Ford	
Type / ref	EEC IV / SEFI	
Main jet / needle	_	
Injection pressure	bar	2.1±0.2
Pump pressure	bar	2.7±0.2
Octane rating	RON	95[U]

Ignition system

Mondeo 1.6i

1993 to 1996

Type	EEC IV - DIS	
Ignition coil	2x high output DIS	
Primary resistance	ohms	0.5±0.05
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] N/A
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	Motorcraft	
Type	AYRF22PP	
Electrode gap	mm	1.30

Electrical system

Mondeo 1.6i

1993 to 1996

Battery	V / CC / RC	12 / _
Alternator voltage / full load current / engine rpm	13.5 / 90, 95 / 3000	
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

Mondeo 1.6i

1993 to 1996

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

Tyres		
Saloon	Size	185/65x14
Estate / Van	Size	185/65x14
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	2.1 / 2.1

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-0.5 to -3.5
Camber	-30'±1°15'. Sport:-35'±1°15' ¹	
Castor	+2°11'±1°. Sport: +2°21'±1° ²	
King pin inclination	_	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+3.9 to -0.1 ³
Camber	-25'±1°. Sport: -37'±1° ⁴	

Torque wrench settings

Mondeo 1.6i

1993 to 1996

Cylinder head - stage 1	Nm	25
- stage 2	Nm	45
Cylinder head - stage 3	Nm	+ 105°
- stage 4	Nm	_
Big-end bearings	Nm	18 + 90°
Main bearings	Nm	80
Clutch cover	Nm	30
Flywheel [driveplate]	Nm	112
Front hubs	Nm	340
Rear hubs	Nm	290
Wheel nuts / bolts	Nm	70 to 100
Spark plugs	Nm	15

Capacities

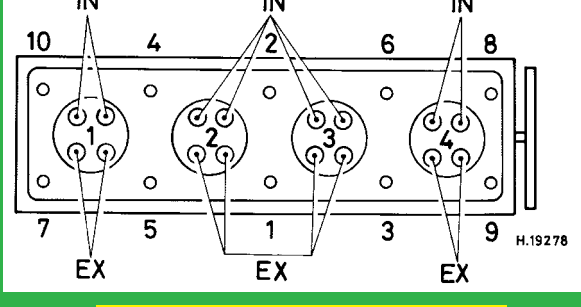
Mondeo 1.6i

1993 to 1996

Engine oil & filter	litres	4.25
Gearbox - 4-speed [5-speed]	litres	2.6
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.6
Fuel tank	litres	61.5

Notes and Illustrations

- ¹Estate: -28'±1°15'
- ²Estate: +2°14'±1°. Self-levelling: +2°8'±1°
- ³Estate: +2.7 to -1.3
- ⁴Estate: -26'±1°



1597 cm³, 16V