

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemMondeo 1.6i 16V1996 to 1997

Type		Zetec-E L1J 16V EEC96 66kW
Capacity (cm ³) / number of cylinders		1597 / 4
Compression ratio / pressure	bar	10.3 / _
Oil pressure	bar	1.3 to 2.5 [3.7 to 5.5]
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		TBE
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	–

Fuel systemMondeo 1.6i 16V1996 to 1997

Idle speed - manual [auto]	rpm	830±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	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	–
O2 @ idle speed [3000 rpm] - see page VI	%	–
Carburettor / fuel injection		Ford
Type / ref		EEC V / SEFI
Main jet / needle		–
Injection pressure	bar	2.1±0.2
Pump pressure	bar	2.7±0.2
Octane rating	RON	95[U]

Ignition systemMondeo 1.6i 16V1996 to 1997

Type		EEC V
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	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		Motorcraft
Type		AYRF22PP
Electrode gap	mm	1.30

Electrical systemMondeo 1.6i 16V1996 to 1997

Battery	V / CC / RC	12 / _
Alternator voltage / full load current / engine rpm		14.8 / 90, 95 / 3000
Starter motor current / voltage - cranking	A / V	–
- locked	A / V	–

Running gearMondeo 1.6i 16V1996 to 1997

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 [°]	[+10'±10']
Camber		45' to 1°45'.Est: 47' to 1°43'
Castor		+2°11'±1°. Estate: 2°14'
King pin inclination		–

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	[+18'±12']
Camber		-25'. Estate: -26'

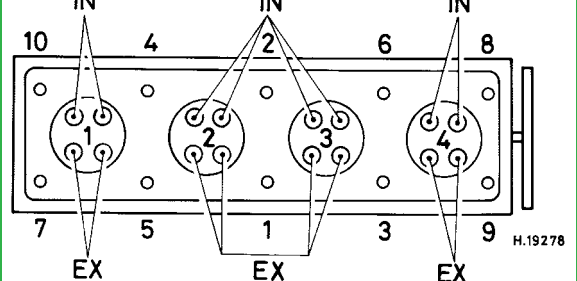
Torque wrench settingsMondeo 1.6i 16V1996 to 1997

Cylinder head - stage 1	Nm	25
- stage 2	Nm	45
Cylinder head - stage 3	Nm	+ 105°
- stage 4	Nm	–
Big-end bearings	Nm	15 + 90°
Main bearings	Nm	80
Clutch cover	Nm	30
Flywheel [driveplate]	Nm	112
Front hubs	Nm	340
Rear hubs	Nm	290. Estate: 65
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	15

CapacitiesMondeo 1.6i 16V1996 to 1997

Engine oil & filter	litres	4.25
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	–
Final drive	litres	WT
Cooling system	litres	6.6
Fuel tank	litres	61.5

Notes and Illustrations



1597 cm³, 16V