

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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HELP

Engine and cooling system Escort & Orion 1.6i CAT 1992 to 1997

Type	Zetec L1E 16V US83 66kW	
Capacity (cm ³) / number of cylinders	1597 / 4	
Compression ratio / pressure	bar	10.3 / _
Oil pressure	bar	[2.8]
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	TBE	
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	1.20

Fuel system Escort & Orion 1.6i CAT 1992 to 1997

Idle speed - manual [auto]	rpm	875±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
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	2.1±0.2
Pump pressure	bar	≥3.0
Octane rating	RON	95[U]

Ignition system Escort & Orion 1.6i CAT 1992 to 1997

Type	EEC IV - DIS	
Ignition coil	2x high output DIS	
Primary resistance	ohms	0.50±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 V = Vacuum NV = No Vacuum	° Crankshaft @ rpm	[10±2 BTDC] N/A
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 system Escort & Orion 1.6i CAT 1992 to 1997

Battery	V / CC / RC	12 / 360 / 60, 500 / 70,590/90
Alternator voltage / full load current / engine rpm	13.5 / 70 / 3000	
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear Escort & Orion 1.6i CAT 1992 to 1997

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	_

Tyres		
Saloon	Size	155x13: 175/70x13: 185/60x14
Estate / Van	Size	155x13: 175/70x13: 185/60x14
Pressure - front / rear - Saloon	bar	2.0 / 1.8
- Estate / Van	bar	2.0 / 1.8

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber	-15'±1°20'	
Castor	0±1°15'	
King pin inclination	_	

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+2.0±2.0
Camber	-1°+30'-1°	

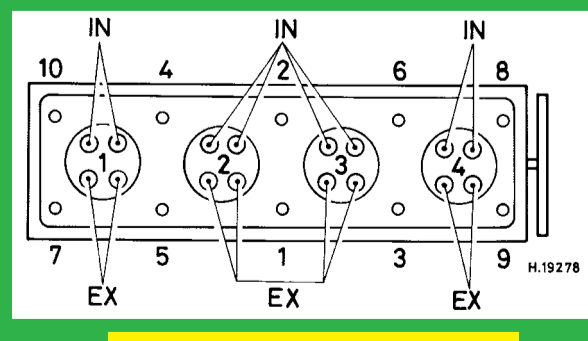
Torque wrench settings Escort & Orion 1.6i CAT 1992 to 1997

Cylinder head - stage 1	Nm	20 to 30
- stage 2	Nm	40 to 50
Cylinder head - stage 3	Nm	+ 90 to 120°
- stage 4	Nm	_
Big-end bearings	Nm	20 + 90°
Main bearings	Nm	70 to 90
Clutch cover	Nm	25 to 34
Flywheel [driveplate]	Nm	107 to 115
Front hubs	Nm	205 to 235
Rear hubs	Nm	250 to 270
Wheel nuts / bolts	Nm	70 to 100
Spark plugs	Nm	14 to 20

Capacities Escort & Orion 1.6i CAT 1992 to 1997

Engine oil & filter	litres	4.25
Gearbox - 4-speed [5-speed]	litres	3.1
Automatic transmission - refill	litres	4.2
Final drive	litres	WT
Cooling system	litres	7.0
Fuel tank	litres	55

Notes and Illustrations



1597 cm³, DOHC 16V