

Engine & Cooling

Fuel

Ignition

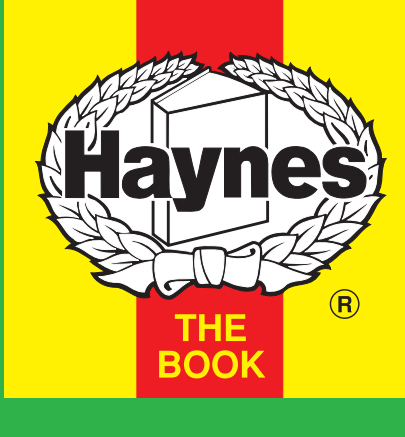
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system

Escort & Orion 1.6i CAT

1992 to 1997

Type		Zetec L1E 16V US83 66kW
Capacity (cm³) / 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
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	≥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	° Crankshaft @ rpm	[10±2 BTDC] 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 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

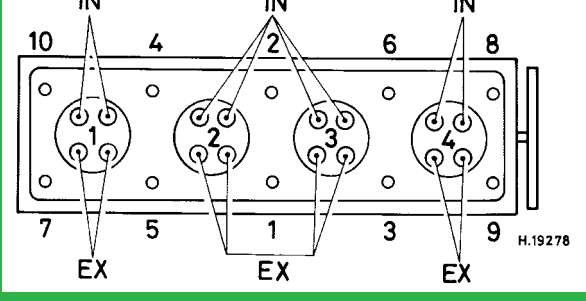
Capacities

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