

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling system			Escort & Orion 1.8i CAT	1992 to 1997
Type			Zetec DOHC 16V US83 ¹	
Capacity (cm ³) / number of cylinders			1796 / 4	
Compression ratio / pressure		bar	10.0 / _	
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 1.8i 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 1.8i CAT	1992 to 1997
Type			E-DIS 4	
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	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			AYRF22P	
Electrode gap		mm	1.30	
Electrical system			Escort & Orion 1.8i 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 1.8i CAT	1992 to 1997
Brakes -				
Front (min. friction material thickness)		mm	1.5	
Rear (min. friction material thickness)		mm	1.0	
Tyres				
Saloon		Size	175/70x13:185/60x14: 195/50x15	
Estate / Van		Size	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 1.8i 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 1.8i CAT	1992 to 1997
Engine oil & filter		litres	4.25	
Gearbox - 4-speed [5-speed]		litres	3.1	
Automatic transmission - refill		litres	_	
Final drive		litres	WT	
Cooling system		litres	7.0	
Fuel tank		litres	55	

Notes and Illustrations

¹RDA: 77kW. RQB: 96kW

