

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

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Engine and cooling system Escort & Orion 1.3i CAT 1991 to 1995

Type		J6A HCS CFI 44kW EEC93
Capacity (cm ³) / number of cylinders		1297 / 4
Compression ratio / pressure	bar	8.8 / 13 to 16
Oil pressure	bar	0.6 [1.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20
Valve clearance - exhaust	mm	0.30
Firing order		1-2-4-3
No 1 cylinder position		TCE
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	1.2 to 1.4

Fuel system Escort & Orion 1.3i CAT 1991 to 1995

Idle speed - manual [auto]	rpm	900±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		Weber
Type / ref		EEC IV / CFI
Main jet / needle		—
Injection pressure	bar	1.0
Pump pressure	bar	≥3.0
Octane rating	RON	95[U]

Ignition system Escort & Orion 1.3i CAT 1991 to 1995

Type		EEC IV - DIS
Ignition coil		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 V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm	[10±2 BTDC] N/A
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/Champion
Type		AGRF22CD1 / RS9YC
Electrode gap	mm	1.00

Electrical system Escort & Orion 1.3i CAT 1991 to 1995

Battery	V / CC / RC	12 / 270 / 50, 360 /60
Alternator voltage / full load current / engine rpm		13.5 / 55, 70 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear Escort & Orion 1.3i CAT 1991 to 1995

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.0
Tyres		
Saloon	Size	155x13: 175/70x13: 185/60x14
Estate / Van	Size	165x13: 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'. Van: -22'±1°20'
Castor		0±1°15'. Van: -48'±1°15'
King pin inclination		—
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.0±2.0 not van
Camber		-1°+30'-1° not van

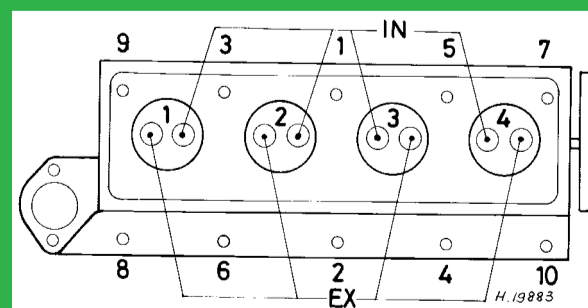
Torque wrench settings Escort & Orion 1.3i CAT 1991 to 1995

Cylinder head - stage 1	Nm	30 N
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	—
Big-end bearings	Nm	4 + 90° N
Main bearings	Nm	88 to 102
Clutch cover	Nm	25 to 34
Flywheel [driveplate]	Nm	64 to 70
Front hubs	Nm	205 to 235
Rear hubs	Nm	250 to 270
Wheel nuts / bolts	Nm	70 to 100
Spark plugs	Nm	15 to 20

Capacities Escort & Orion 1.3i CAT 1991 to 1995

Engine oil & filter	litres	3.25
Gearbox - 4-speed [5-speed]	litres	3.1
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	7.1
Fuel tank	litres	55

Notes and Illustrations



1297 cm³, OHV