

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Escort & Orion 1.3 1986 to 1988

Type		JLA (OHV)
Capacity (cm³) / number of cylinders		1297 / 4
Compression ratio / pressure	bar	9.3 / 12.2 to 14.3
Oil pressure	bar	0.6 [1.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20
Valve clearance - exhaust	mm	0.60
Firing order		1-2-4-3
No 1 cylinder position		TCE
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	1.0

Fuel system

Escort & Orion 1.3 1986 to 1988

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Ford
Type / ref		VV
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	0.24 to 0.38
Octane rating	RON	97[RA] ¹

Ignition system

Escort & Orion 1.3 1986 to 1988

Type		Electronic
Ignition coil		Bosch, Femsa, Polmot
Primary resistance	ohms	0.72 to 0.88
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	6 BTDC @ idle ¹
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	19 to 34.5 @ 2000
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 to 8 @ 1650
	° Crankshaft @ rpm	9.2 to 17 @ 3000
	° Crankshaft @ rpm	23 to 31 @ 5500
Vacuum range check	mbar	0 to 370
Maximum vacuum advance	° Crankshaft	14 to 22
Spark plugs		Motorcraft/Champion
Type		AGRF22 / RS9YC
Electrode gap	mm	0.75

Electrical system

Escort & Orion 1.3 1986 to 1988

Battery	V / CC / RC	12 / 200 / 70
Alternator voltage / full load current / engine rpm		13.7 to 14.6 / _ / 4000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

Escort & Orion 1.3 1986 to 1988

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	155x13: 175/70x13
Estate / Van	Size	155x13
Pressure - front / rear - Saloon	bar	1.6 / 2.0
- Estate / Van	bar	1.6 / 2.0

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-2.5±1.0
Camber		3D: +10' 5D: +6' ²
Castor		3D: +2°4'. 5D:+2°11' ³
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	⁴
Camber		⁴

Torque wrench settings

Escort & Orion 1.3 1986 to 1988

Cylinder head - stage 1	Nm	10 to 15
- stage 2	Nm	40 to 50
Cylinder head - stage 3	Nm	80 to 90
- stage 4	Nm	100 to 110 ⁵
Big-end bearings	Nm	29 to 36
Main bearings	Nm	88 to 102
Clutch cover	Nm	7 to 10
Flywheel [driveplate]	Nm	64 to 70
Front hubs	Nm	205 to 235
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	70 to 100
Spark plugs	Nm	14 to 20

Capacities

Escort & Orion 1.3 1986 to 1988

Engine oil & filter	litres	3.25
Gearbox - 4-speed [5-speed]	litres	2.8 [3.1]
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	7.1
Fuel tank	litres	48. Van: 50

Notes and Illustrations

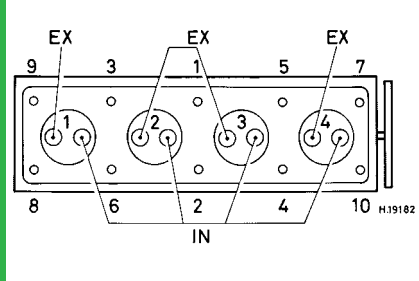
¹[E 95 RON]: 2° BTDC @ idle

²Est: +27'. Van: +20'. 4D: 0

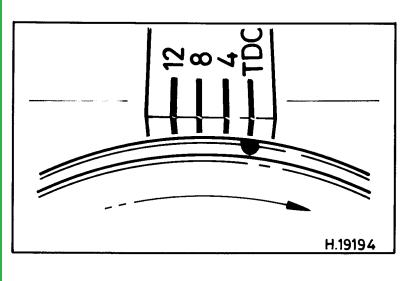
³Est: +2°26'. 35 van: +1°46'. 55 van: +1°26'. 4D: +2°32'

⁴Wait 10 to 20 minutes

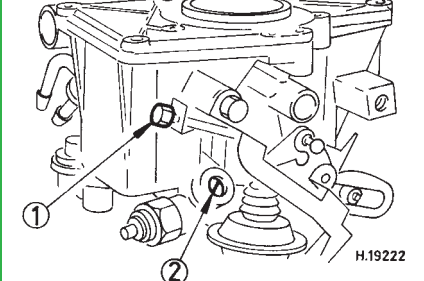
1: Idle speed 2: CO / Mixture



1297 cm³, OHV



1297 cm³, OHV



Ford VV