

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Escort & Orion 1.6

1986 to 1990

Type		LUC (CVH)
Capacity (cm³) / number of cylinders		1596 / 4
Compression ratio / pressure	bar	9.5 / 12 to 14
Oil pressure	bar	1.0 [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	1.0

Fuel system

Escort & Orion 1.6

1986 to 1990

Idle speed - manual [auto]	rpm	800±50 [900±50]
Fast idle speed - manual [auto]	rpm	1900±50 [2000±50]
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.25
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		Weber
Type / ref		(2V) TLD
Main jet / needle		117, 127 [AT: 115, 130]
Injection pressure	bar	—
Pump pressure	bar	0.24 to 0.38
Octane rating	RON	97[RA] ¹

Ignition system

Escort & Orion 1.6

1986 to 1990

Type		Electronic
Ignition coil		—
Primary resistance	ohms	0.72 to 0.88
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch/Lucas
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	12 BTDC @ 800 ¹
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	14.5 to 28.5 @ 2000
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	5.5 to 11.5 @ 2000
	° Crankshaft @ rpm	11 to 17 @ 3000
	° Crankshaft @ rpm	13 to 19 @ 4000
Vacuum range check	mbar	100 to 308
Maximum vacuum advance	° Crankshaft	9 to 17
Spark plugs		Motorcraft/Champion
Type		AGPR22C / RC7YC
Electrode gap	mm	0.75

Electrical system

Escort & Orion 1.6

1986 to 1990

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 1.6

1986 to 1990

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: 175/70x13
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'±1 ^{o2}
Castor		3D: 2°4'±1 ^{o3}
King pin inclination		—

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (–)	mm [°]	WSM
Camber		WSM

Torque wrench settings

Escort & Orion 1.6

1986 to 1990

Cylinder head - stage 1	Nm	25
- stage 2	Nm	55
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	30 to 36
Main bearings	Nm	90 to 100
Clutch cover	Nm	24 to 35
Flywheel [driveplate]	Nm	82 to 92
Front hubs	Nm	205 to 235
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	70 to 100
Spark plugs	Nm	25 to 38

Capacities

Escort & Orion 1.6

1986 to 1990

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	2.8 [3.1]
Automatic transmission - refill	litres	7.9. CTX: 3.5
Final drive	litres	WT
Cooling system	litres	7.8
Fuel tank	litres	48. Van: 50

Notes and Illustrations

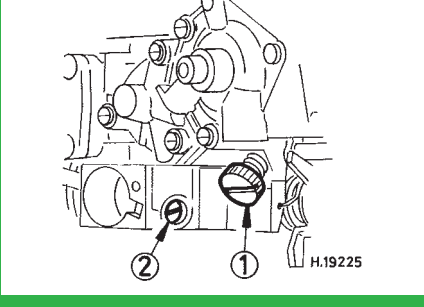
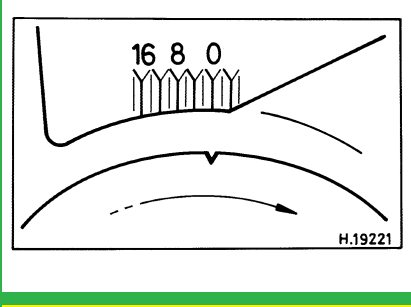
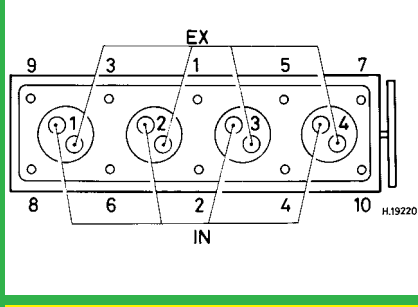
¹[E 95 RON]: 8° BTDC @ idle

²5D: +6'. 4D: 0. Est: +27'. Van: -18'

³5D: +2°11'. 4D: +2°32'. Est: +2°26'. 35 Van: +1°46'. 55 Van: +1°26'

1: Idle speed

2: CO / Mixture



1596 cm³

1596 cm³

Weber TLD