

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Escort & Orion 1.6i 1989 to 1990

Type		LJA. 1.6 EFI CVH 15.04
Capacity (cm ³) / number of cylinders		1596 / 4
Compression ratio / pressure	bar	9.75 / 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 1.6i 1989 to 1990

Idle speed - manual [auto]	rpm	900±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.8±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		Ford
Type / ref		EEC IV, Weber injectors
Main jet / needle		—
Injection pressure	bar	2.5±0.2
Pump pressure	bar	≥3.0
Octane rating	RON	95[E 95 RON]

Ignition system

Escort & Orion 1.6i 1989 to 1990

Type		DIS
Ignition coil		—
Primary resistance	ohms	4.5 to 5.0
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 @ idle N/A
V = Vacuum NV = No Vacuum		—
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		AGPR22CD1 / RC6YC
Electrode gap	mm	1.00

Electrical system

Escort & Orion 1.6i 1989 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 1.6i 1989 to 1990

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

Tyres		
Saloon	Size	185/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.6 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-2.5±1.0
Camber		-53'. 4D: 0
Castor		+2°36'. 4D: +2°32'
King pin inclination		—

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

Torque wrench settings

Escort & Orion 1.6i 1989 to 1990

Cylinder head - stage 1	Nm	20 to 40
- stage 2	Nm	40 to 60
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	17 to 33

Capacities

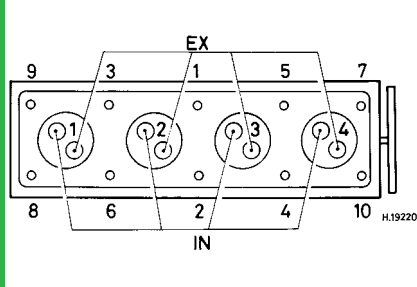
Escort & Orion 1.6i 1989 to 1990

Engine oil & filter	litres	3.9
Gearbox - 4-speed [5-speed]	litres	[3.1]
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	7.8
Fuel tank	litres	48

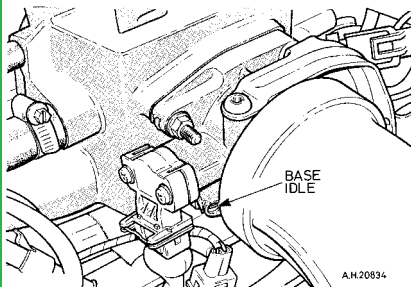
Notes and Illustrations



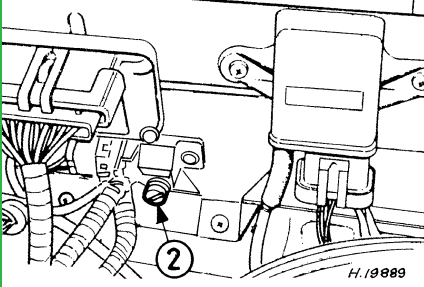
1: Idle speed 2: CO / Mixture



1596 cm³



Ford EEC IV



Ford EEC IV