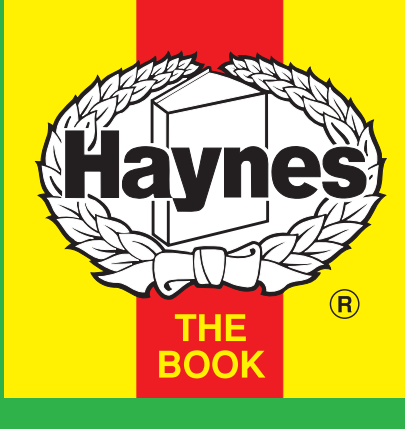


Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENUHELP

Engine and cooling system

Escort & Orion 1.6i1986 to 1989

Type		LRB (CVH)
Capacity (cm ³) / 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 1.6i1986 to 1989

Idle speed - manual [auto]	rpm	750 to 850
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 1.5
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		Bosch
Type / ref		K-Jetronic
Main jet / needle		—
Injection pressure	bar	3.2 to 4.0
Pump pressure	bar	4.7 to 6.5
Octane rating	RON	97[RA] ¹

Ignition system

Escort & Orion 1.6i1986 to 1989

Type		Electronic
Ignition coil		—
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	12 BTDC @ 800 ¹
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	16 to 31 @ 2000
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	7.5 to 14 @ 2000
	° Crankshaft @ rpm	16 to 22.5 @ 3000
	° Crankshaft @ rpm	17 to 22 @ 4000
Vacuum range check	mbar	173 to 250
Maximum vacuum advance	° Crankshaft	8.5 to 17
Spark plugs		Motorcraft/Champion
Type		AGPR12C / RC6YC
Electrode gap	mm	0.75

Electrical system

Escort & Orion 1.6i1986 to 1989

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 1.6i1986 to 1989

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 1.6i1986 to 1989

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

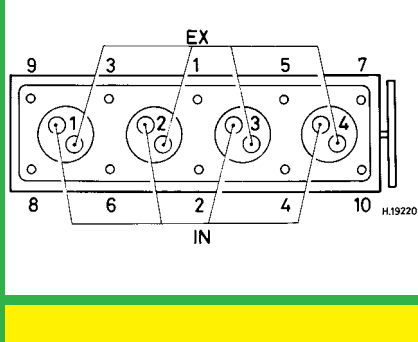
Escort & Orion 1.6i1986 to 1989

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

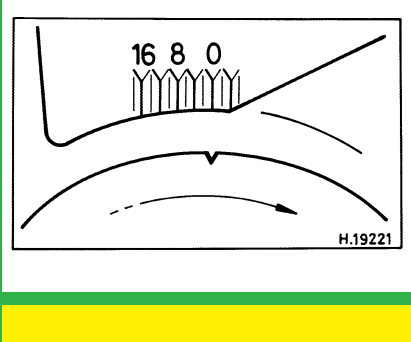
Notes and Illustrations

¹[E 95 RON]: 6° BTDC @ idle

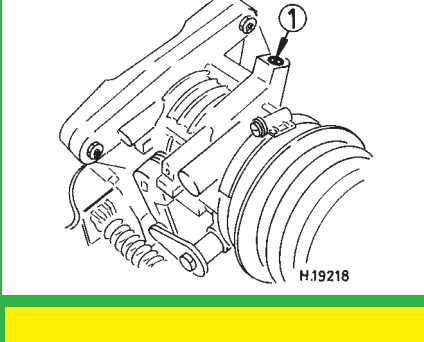
1: Idle speed 2: CO / Mixture



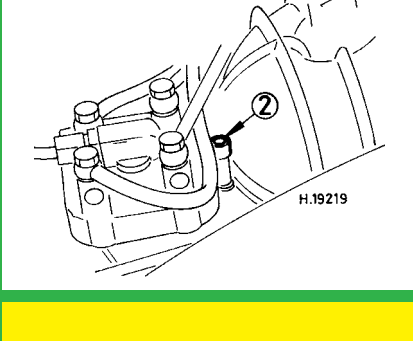
1596 cm³



1596 cm³, not DIS



K-Jetronic



K-Jetronic