

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & 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.

MENU

HELP

Engine and cooling system

Escort & Orion 1.3 & CAT

1990 to 1993

Type		JBD 46kW. 15.04 ¹
Capacity (cm ³) / number of cylinders		1297 / 4
Compression ratio / pressure	bar	9.5 / 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 1.3 & CAT

1990 to 1993

Idle speed - manual [auto]	rpm	750±50 (fan on)
Fast idle speed - manual [auto]	rpm	2500
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Weber
Type / ref		2V TLDM. 89BF-9510-DA ²
Main jet / needle		90, 122
Injection pressure	bar	—
Pump pressure	bar	0.24 to 0.38
Octane rating	RON	98[E 95 RON] ³

Ignition system

Escort & Orion 1.3 & CAT

1990 to 1993

Type		UESC - DIS ⁴
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	° Crankshaft @ rpm	[15 BTDC] 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		AGRF22C1 / RS9YC
Electrode gap	mm	1.00

Electrical system

Escort & Orion 1.3 & CAT

1990 to 1993

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 1.3 & CAT

1990 to 1993

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	155x13: 165x13: 175/70x13
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 1.3 & CAT

1990 to 1993

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 1.3 & CAT

1990 to 1993

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	55

Notes and Illustrations

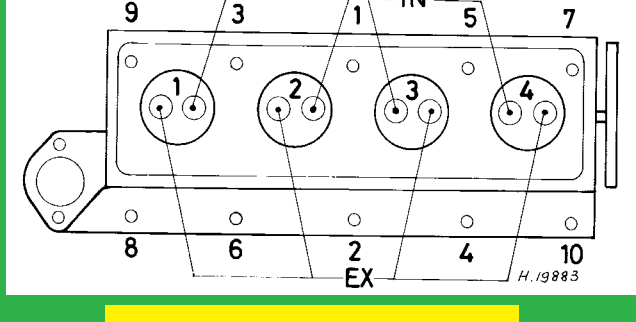
¹CAT: JBE 44kW 15.05

²CAT: 91BF-9510-AB

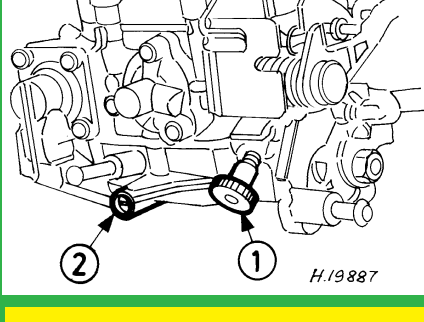
³CAT: 95 [U]

⁴CAT: UPAC - DIS

1: Idle speed 2: CO / Mixture



1297 cm³, OHV



Weber TLDM