

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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HELP

Engine and cooling system Ka 1.3 1996 to 1997

Type	Endura-E JJB(J4D) OHV 37kW 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	0.50
Firing order	1-2-4-3	
No 1 cylinder position	TCE	
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	1.20

Fuel system Ka 1.3 1996 to 1997

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	—
HC @ idle speed [3000 rpm] - see page VI	ppm	—
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	_Ford	
Type / ref	EEC V SEFI	
Main jet / needle	—	
Injection pressure	bar	2.7
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system Ka 1.3 1996 to 1997

Type	EEC V	
Ignition coil	—	
Primary resistance	ohms	0.4 to 0.6
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 V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm	Computer control N/A
Total ignition advance	° Crankshaft @ rpm	Computer control
Centrifugal check.	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs	Motorcraft	
Type	—	
Electrode gap	mm	1.00

Electrical system Ka 1.3 1996 to 1997

Battery	V / CC / RC	—
Alternator voltage / full load current / engine rpm	14.0 / 70, 90 / _	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear Ka 1.3 1996 to 1997

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5
Tyres		
Saloon	Size	155/70x13:165/65x13:165/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.2 / 1.8. 165/65: 2.1 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[+10'±10']
Camber	0. PAS: +3'	
Castor	+32'. PAS: 2°47'	
King pin inclination	—	

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+4.3 to 0.3
Camber	-30' to 2°	

Torque wrench settings Ka 1.3 1996 to 1997

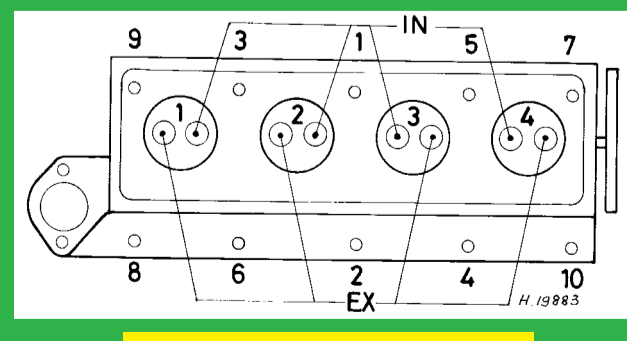
Cylinder head - stage 1	Nm	30, Re-use once
- stage 2	Nm	+90°
Cylinder head - stage 3	Nm	+90°
- stage 4	Nm	—
Big-end bearings	Nm	4 + 90° N
Main bearings	Nm	95
Clutch cover	Nm	30
Flywheel [driveplate]	Nm	67
Front hubs	Nm	270 to 290
Rear hubs	Nm	290
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	17

Capacities Ka 1.3 1996 to 1997

Engine oil & filter	litres	3.25
Gearbox - 4-speed [5-speed]	litres	2.8
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	7.1
Fuel tank	litres	42

Notes and Illustrations

¹J4D: 44kW



1297 cm³