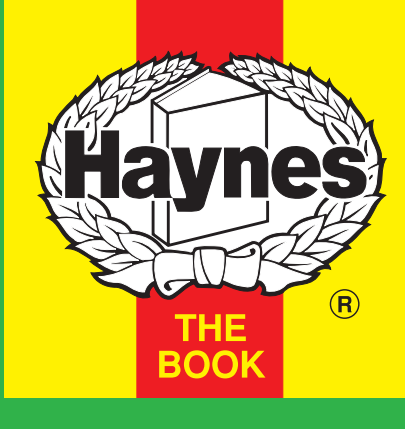


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical
DATA BOOK

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Engine and cooling systemScorpio 2.3i 16V1996 to 1997

Type		Y5A DOHC 16V 108kW EEC96
Capacity (cm ³) / number of cylinders		2295 / 4
Compression ratio / pressure	bar	10.0 / _
Oil pressure	bar	1.6 [3.1]
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		TCE
Thermostat opening temperature	°C	_
Radiator cap pressure	bar	_

Fuel systemScorpio 2.3i 16V1996 to 1997

Idle speed - manual [auto]	rpm	875±50 [800±50]
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
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		_ Ford
Type / ref		EEC V + PCM SEFI
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemScorpio 2.3i 16V1996 to 1997

Type		EEC V
Ignition coil		_
Primary resistance	ohms	_
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	Computer control N/A
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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
Type		AGPR22P1
Electrode gap	mm	1.00

Electrical systemScorpio 2.3i 16V1996 to 1997

Battery	V / CC / RC	_
Alternator voltage / full load current / engine rpm		13.7 to 14.6 / 90 / _
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gearScorpio 2.3i 16V1996 to 1997

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

Tyres		
Saloon	Size	195/65x15:205/60x15:205/55x16
Estate / Van	Size	195/65x15: 205/60x15
Pressure - front / rear - Saloon	bar	2.0 / 2.0. 205/55: 2.2 / 2.2
- Estate / Van	bar	2.0 / 2.0

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	2.0±1.0
Camber		-27'±15'
Castor		4°50'±40'
King pin inclination		_

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

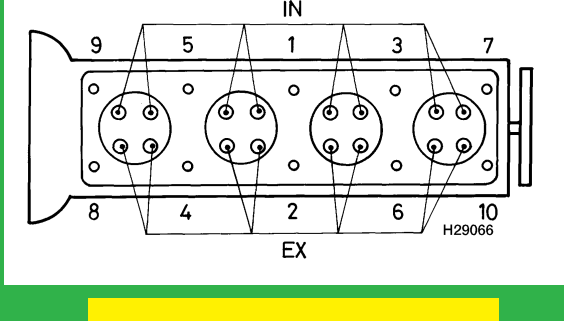
Torque wrench settingsScorpio 2.3i 16V1996 to 1997

Cylinder head - stage 1	Nm	40 N
- stage 2	Nm	55
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	7, 16, + 90° N
Main bearings	Nm	97
Clutch cover	Nm	29
Flywheel [driveplate]	Nm	87
Front hubs	Nm	420
Rear hubs	Nm	290
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	18

CapacitiesScorpio 2.3i 16V1996 to 1997

Engine oil & filter	litres	4.25
Gearbox - 4-speed [5-speed]	litres	1.2
Automatic transmission - refill	litres	10.3
Final drive	litres	1.3
Cooling system	litres	7.5
Fuel tank	litres	70

Notes and Illustrations



2295 cm³, 16V