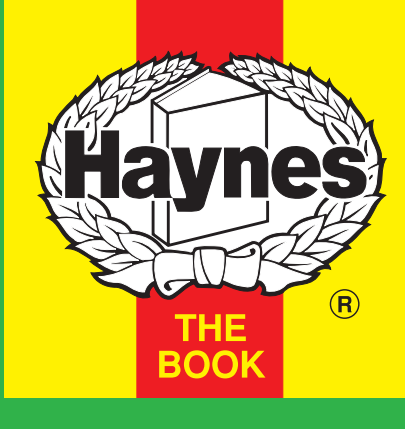


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemGranada Scorpio 2.9 24V1991 to 1995

Type		BOA DOHC 24V 143kW US83
Capacity (cm³) / number of cylinders		2936 / 6
Compression ratio / pressure	bar	9.7 / _
Oil pressure	bar	0.98 [2.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-4-2-5-3-6
No 1 cylinder position		FR
Thermostat opening temperature	°C	79 to 83
Radiator cap pressure	bar	0.85 to 1.1

Fuel systemGranada Scorpio 2.9 24V1991 to 1995

Idle speed - manual [auto]	rpm	900±50
Fast idle speed - manual [auto]	rpm	_
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		Bosch
Type / ref		Ford EEC IV
Main jet / needle		_
Injection pressure	bar	3.0
Pump pressure	bar	≥5.0
Octane rating	RON	95[U]

Ignition systemGranada Scorpio 2.9 24V1991 to 1995

Type		E-DIS 6
Ignition coil		High output breakerless 37kV
Primary resistance	ohms	0.50±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	Computer control
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
Type		AGPR22P
Electrode gap	mm	1.00

Electrical systemGranada Scorpio 2.9 24V1991 to 1995

Battery	V / CC / RC	12 / 360 / 60 or 500 / 75
Alternator voltage / full load current / engine rpm		13.7 to 14.6 / 90 / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gearGranada Scorpio 2.9 24V1991 to 1995

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

Tyres		
Saloon	Size	205/50x16
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	_

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+2.0±1.0
Camber		-28'±1°
Castor		+2°21'±1°
King pin inclination		_

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	_
Camber		_

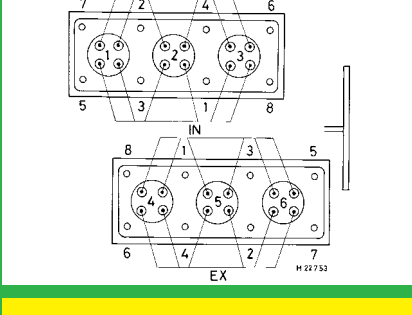
Torque wrench settingsGranada Scorpio 2.9 24V1991 to 1995

Cylinder head - stage 1	Nm	45 to 55
- stage 2	Nm	+ 180°
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	26 to 33
Main bearings	Nm	90 to 104
Clutch cover	Nm	17 to 21
Flywheel [driveplate]	Nm	68 to 74
Front hubs	Nm	390 to 450
Rear hubs	Nm	250 to 290
Wheel nuts / bolts	Nm	70 to 100
Spark plugs	Nm	28 to 33

CapacitiesGranada Scorpio 2.9 24V1991 to 1995

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	_
Automatic transmission - refill	litres	8.7
Final drive	litres	1.3
Cooling system	litres	9.5
Fuel tank	litres	70

Notes and Illustrations



2936 cm³, DOHC 24V