

Engine & Cooling

Fuel

Ignition

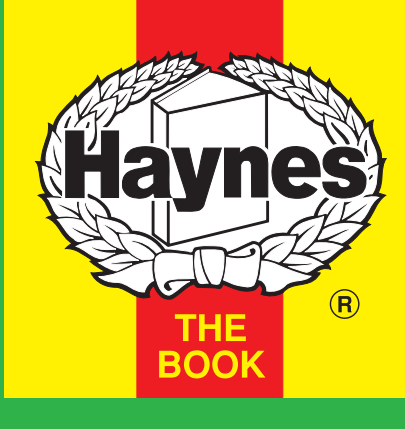
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

Granada, Scorpio 2.0

1985 to 1989

Type		NEL (OHC) 77kW 15.04
Capacity (cm ³) / number of cylinders		1993 / 4
Compression ratio / pressure	bar	9.2 / 11 to 13
Oil pressure	bar	2.1 [2.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20±0.03
Valve clearance - exhaust	mm	0.25±0.03
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	0.85 to 1.1

Fuel system

Granada, Scorpio 2.0

1985 to 1989

Idle speed - manual [auto]	rpm	875±50 [800±50]
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.25±0.5
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		Weber
Type / ref		2V. 85HF-CA [DA]
Main jet / needle		112, 135 [110, 135]
Injection pressure	bar	—
Pump pressure	bar	0.24 to 0.41
Octane rating	RON	97[R]

Ignition system

Granada, Scorpio 2.0

1985 to 1989

Type		ESC II
Ignition coil		Bosch, Femsa, Polmot 25kV
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		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
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		BRF32C / F7YC
Electrode gap	mm	0.75

Electrical system

Granada, Scorpio 2.0

1985 to 1989

Battery	V / CC / RC	12 / 270 / 50, 12 / 360 / 60
Alternator voltage / full load current / engine rpm		13.7 to 14.6 / 55, 70 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

Granada, Scorpio 2.0

1985 to 1989

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

Tyres		
Saloon	Size	165x14: 175x14: 185/70x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.8 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±1.0
Camber		-23'±1°. HD: 0±1°
Castor		+1°51'±1° . HD: +1°46'±1° ¹
King pin inclination		—

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

Torque wrench settings

Granada, Scorpio 2.0

1985 to 1989

Cylinder head - stage 1	Nm	35 to 40
- stage 2	Nm	70 to 75
Cylinder head - stage 3	Nm	Wait 5 min.
- stage 4	Nm	+ 90°
Big-end bearings	Nm	40 to 47
Main bearings	Nm	88 to 102
Clutch cover	Nm	20 to 25
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	20 to 28

Capacities

Granada, Scorpio 2.0

1985 to 1989

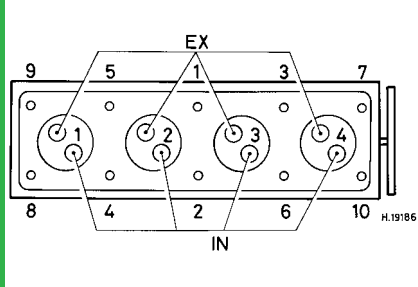
Engine oil & filter	litres	3.75
Gearbox - 4-speed [5-speed]	litres	1.25
Automatic transmission - refill	litres	8.7
Final drive	litres	0.9 LSD: 1.3
Cooling system	litres	8.0
Fuel tank	litres	70

Notes and Illustrations

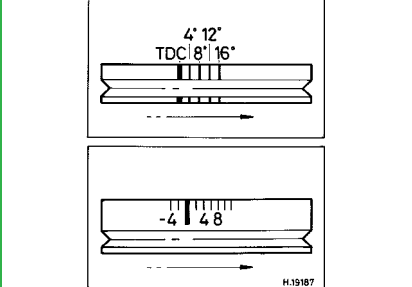
¹Self-levelling: +1°58'±1°

1: Idle speed

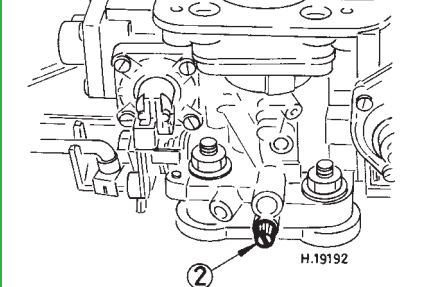
2: CO / Mixture



1993 cm³



1993 cm³



Weber 2V