

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 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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ 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

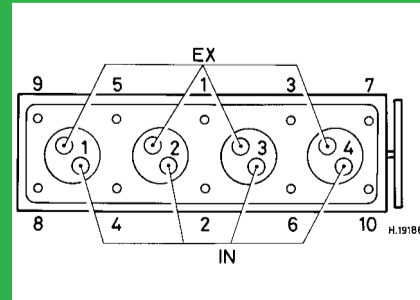
Capacities Granada, Scorpio 2.0 1985 to 1989

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

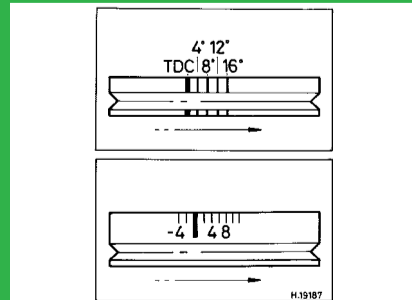
Notes and Illustrations

¹Self-levelling: +1°58'±1°

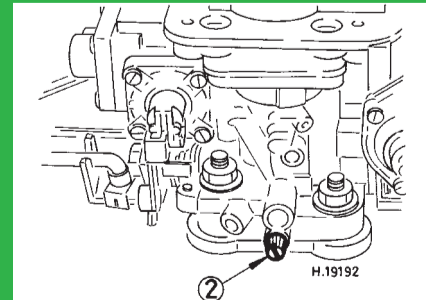
1: Idle speed 2: CO / Mixture



1993 cm³



1993 cm³



Weber 2V