

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 system Granada/Scorpio 2.0 & CAT 1989 to 1990

Type		N8B. DOHC 8V 80kW 15.04 ¹
Capacity (cm ³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	10.3 / 11 to 13
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		TBE
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	1.0 to 1.25

Fuel system Granada/Scorpio 2.0 & CAT 1989 to 1990

Idle speed - manual [auto]	rpm	850±25 [875±25]
Fast idle speed - manual [auto]	rpm	1800±50
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
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 (TLD) 89WF-9510-AC [AB] ²
Main jet / needle		115, 157 [112, 157] ³
Injection pressure	bar	—
Pump pressure	bar	0.24 to 0.41
Octane rating	RON	97[E 95 RON] ⁴

Ignition system Granada/Scorpio 2.0 & CAT 1989 to 1990

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		Motorcraft
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	N/A
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/Champion
Type		AGPR32CD / RC7YC
Electrode gap	mm	0.75

Electrical system Granada/Scorpio 2.0 & CAT 1989 to 1990

Battery	V / CC / RC	12 / 270 / 50 or 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 & CAT 1989 to 1990

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° ⁵
King pin inclination		—

Rear suspension / wheel alignment

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

Torque wrench settings Granada/Scorpio 2.0 & CAT 1989 to 1990

Cylinder head - stage 1	Nm	25
- stage 2	Nm	55
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90° ⁶
Big-end bearings	Nm	6 to 8, THEN ⁷
Main bearings	Nm	90 to 104
Clutch cover	Nm	17 to 21
Flywheel [driveplate]	Nm	82 to 92
Front hubs	Nm	390 to 450
Rear hubs	Nm	250 to 290
Wheel nuts / bolts	Nm	70 to 100
Spark plugs	Nm	17 to 33

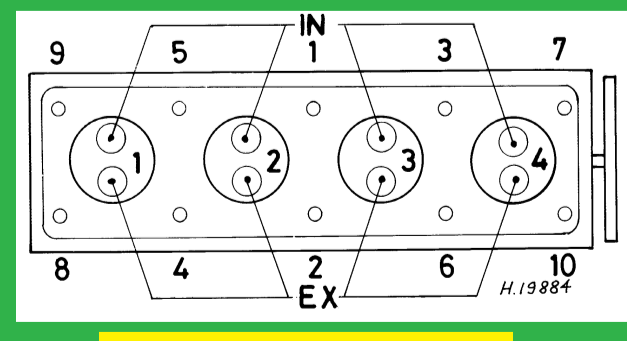
Capacities Granada/Scorpio 2.0 & CAT 1989 to 1990

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	1.2
Automatic transmission - refill	litres	8.5
Final drive	litres	1.3. AT & F: 0.9 ⁸
Cooling system	litres	7.9
Fuel tank	litres	70

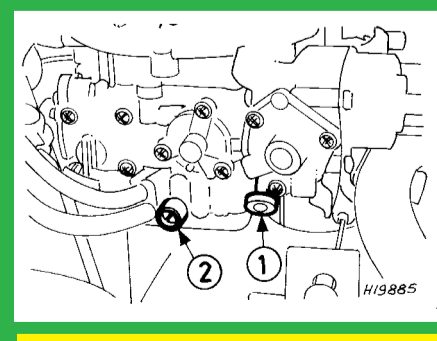
Notes and Illustrations

- ¹CAT: N8D 77kW 15.05
- ²CAT: 88WF-9510-ED
- ³CAT: 112, 140
- ⁴CAT: 95 [U]
- ⁵Self-levelling: +1°58'±1°
- ⁶M8 bolts: 36 to 39 N
- ⁷15 to 17 + 85 to 95°
- ⁸Estate AT: 1.3

1: Idle speed 2: CO / Mixture



1998 cm³, DOHC 8V



Weber TLD