

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling systemGranada/Scorpio 2.0i & CAT1989 to 1995

Type		N9B. DOHC 8V 92kW 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 systemGranada/Scorpio 2.0i & CAT1989 to 1995

Idle speed - manual [auto]	rpm	875±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		Ford
Type / ref		Weber injectors with EEC IV
Main jet / needle		—
Injection pressure	bar	2.5±0.2
Pump pressure	bar	≥3.0
Octane rating	RON	97[E 95 RON] ²

Ignition systemGranada/Scorpio 2.0i & CAT1989 to 1995

Type		EEC IV
Ignition coil		High output 30kV
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	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		AGRP22CD / RC7YC
Electrode gap	mm	0.75

Electrical systemGranada/Scorpio 2.0i & CAT1989 to 1995

Battery	V / CC / RC	12 / 270 / 50 or 360 / 60
Alternator voltage / full load current / engine rpm		13.7 to 14.6 / 55,70,90 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearGranada/Scorpio 2.0i & CAT1989 to 1995

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

Tyres		
Saloon	Size	185/70x14: 195/65x15
Estate / Van	Size	185/70x14: 195/65x15
Pressure - front / rear - Saloon	bar	1.8 / 1.8
- Estate / Van	bar	1.8 / 1.8

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0±1.0
Camber		-23'±1°. HD: 0±1° ³
Castor		+1°51'±1°. HD: +1°46'±1° ⁴
King pin inclination		—

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

Torque wrench settingsGranada/Scorpio 2.0i & CAT1989 to 1995

Cylinder head - stage 1	Nm	25
- stage 2	Nm	55
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90° ⁵
Big-end bearings	Nm	6 to 8, THEN ⁶
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

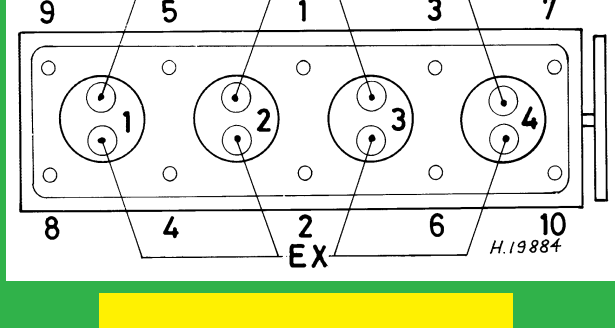
CapacitiesGranada/Scorpio 2.0i & CAT1989 to 1995

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	1.2. 4x4: 0.5
Automatic transmission - refill	litres	8.5
Final drive	litres	1.3. AT: 0.9 ⁷
Cooling system	litres	7.3
Fuel tank	litres	70

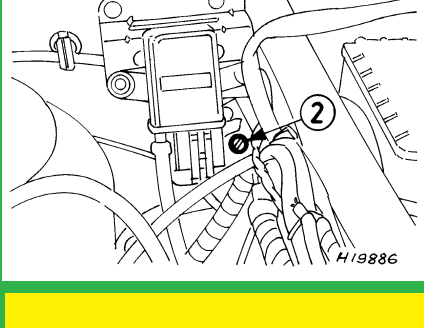
Notes and Illustrations

- ¹CAT: N9D 88kW US83
- ²CAT: 95 [U]
- ³90 ►: -17'±1°
- ⁴Self-levelling: +1°58'±1°. 90 ►: +2°27'±1°. Hi-series: +2°26'±1°
- ⁵M8: 36 to 39 N
- ⁶15 to 17 + 85 to 95°
- ⁷4x4 front: 1.0

1: Idle speed 2: CO / Mixture



1998 cm³, DOHC 8V



EEC IV, not CAT