

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 Ibiza 1.5i & CAT 1989 to 1993

Type		021-B-2000. 68kW. CAT: 67kW
Capacity (cm ³) / number of cylinders		1461 / 4
Compression ratio / pressure	bar	10.8 / ≥13.5
Oil pressure	bar	≥1.5 [3.5 to 4.0]
Oil temperature	°C	100
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	88±2
Radiator cap pressure	bar	0.98

Fuel system Ibiza 1.5i & CAT 1989 to 1993

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.5 to 1.0. CAT: 0.3 to 0.7
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		Bosch
Type / ref		LE2-Jetronic. CAT: LU2-Jet.
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	1.8 to 2.0
Octane rating	RON	96[E 95 RON] ¹

Ignition system Ibiza 1.5i & CAT 1989 to 1993

Type		TSZ
Ignition coil		Bosch TCI
Primary resistance	ohms	0.6 to 1.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	11.5
Distributor		Bosch
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 850±50
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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		Bosch/NGK
Type		F5DC / BCP7ES
Electrode gap	mm	0.80 to 0.90

Electrical system Ibiza 1.5i & CAT 1989 to 1993

Battery	V / CC / RC	12 / 45Ah
Alternator voltage / full load current / engine rpm		13.6 to 14.4 / 65 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	340 / 7.5

Running gear Ibiza 1.5i & CAT 1989 to 1993

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0
Tyres		
Saloon	Size	155x13: 165/65x14: 185/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 1.9
- Estate / Van	bar	—
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+3.0±1.0
Camber		+15' to -1°15'
Castor		+30' to 1°45'
King pin inclination		—
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+4.0±2.0
Camber		-15' to +1°30'

Torque wrench settings Ibiza 1.5i & CAT 1989 to 1993

Cylinder head - stage 1	Nm	20 ²
- stage 2	Nm	+ 90 ²²
- stage 3	Nm	+ 90 ²²
- stage 4	Nm	—
Big-end bearings	Nm	30 + 90°
Main bearings	Nm	85±5
Clutch cover	Nm	30
Flywheel [driveplate]	Nm	85
Front hubs	Nm	216
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	Alloy: 78. Steel: 86
Spark plugs	Nm	32

Capacities Ibiza 1.5i & CAT 1989 to 1993

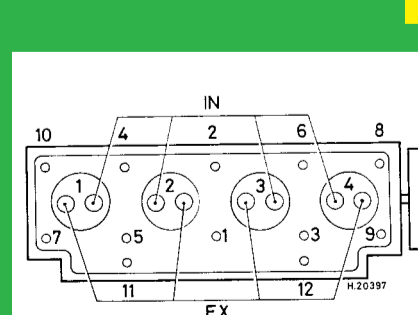
Engine oil & filter	litres	4.1
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	7.5
Fuel tank	litres	47

Notes and Illustrations

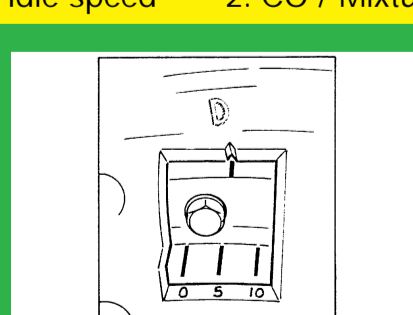
¹CAT: 95 [U]

²Bolts 1 to 10 only. Finally tighten bolts 11 & 12 to 20

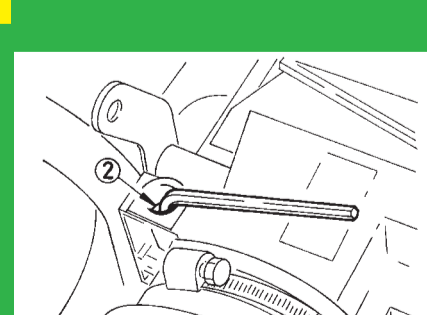
1: Idle speed 2: CO / Mixture



1461 cm³



1461 cm³



LE2-Jetronic