

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemIbiza 1.2i CAT1991 to 1993

Type		021 A.1000 52kW
Capacity (cm³) / number of cylinders		1193 / 4
Compression ratio / pressure	bar	10.8 / ≥11.5
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 systemIbiza 1.2i CAT1991 to 1993

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.3 to 0.7
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		_ Bosch
Type / ref		LU2-Jetronic
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemIbiza 1.2i CAT1991 to 1993

Type		TSZ
Ignition coil		Bosch. Marelli. TZ18H
Primary resistance	ohms	0.6 to 1.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	10.0
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 systemIbiza 1.2i CAT1991 to 1993

Battery	V / CC / RC	12 / 45Ah
Alternator voltage / full load current / engine rpm		14.0 / 65 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	340 / 7.0

Running gearIbiza 1.2i CAT1991 to 1993

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

Tyres		
Saloon	Size	155x13: 165/65x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 1.9
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0 to 4.0
Camber		-15' to -1°15'
Castor		0 to +1°45'
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.0 to 6.0
Camber		+51' to 1°51'

Torque wrench settingsIbiza 1.2i CAT1991 to 1993

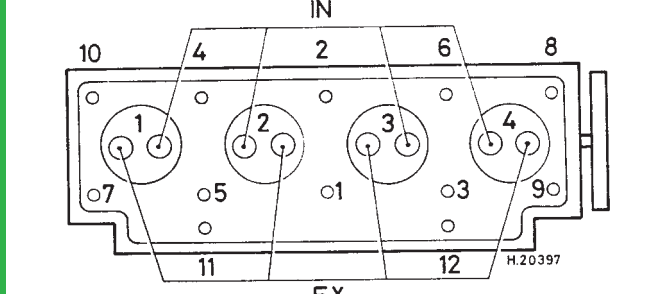
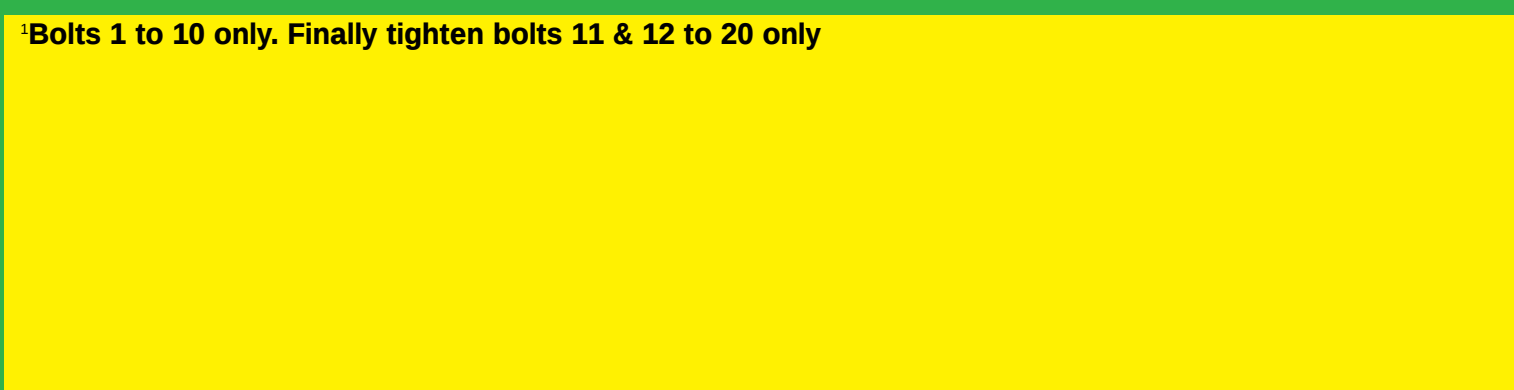
Cylinder head - stage 1	Nm	20 ¹
- stage 2	Nm	+ 90° ¹
- stage 3	Nm	+ 90° ¹
- stage 4	Nm	—
Big-end bearings	Nm	30 + 90°
Main bearings	Nm	85±5
Clutch cover	Nm	30
Flywheel [driveplate]	Nm	85
Front hubs	Nm	216
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	Alloy: 78. Steel: 86
Spark plugs	Nm	32

CapacitiesIbiza 1.2i CAT1991 to 1993

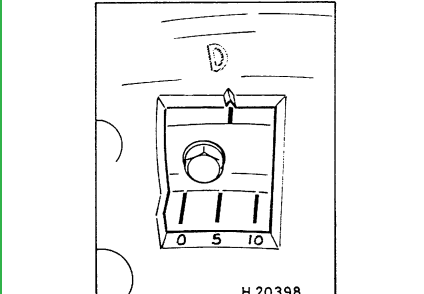
Engine oil & filter	litres	4.1
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	7.5
Fuel tank	litres	47

Notes and Illustrations

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



1193 cm³



1193 cm³