

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Ibiza & Cordoba 1.6i

1993 to 1997

Type		ABU SOHC 8V 55kW
Capacity (cm ³) / number of cylinders		1598 / 4
Compression ratio / pressure	bar	9.3 / ≥7.0
Oil pressure	bar	[2.0]
Oil temperature	°C	80
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	84
Radiator cap pressure	bar	1.4 to 1.6

Fuel system

Ibiza & Cordoba 1.6i

1993 to 1997

Idle speed - manual [auto]	rpm	750 to 850 N/A
Fast idle speed - manual [auto]	rpm	2500 to 2800
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 [≤0.3]
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		Mono-Motronic
Main jet / needle		—
Injection pressure	bar	0.8 to 1.2
Pump pressure	bar	—
Octane rating	RON	91[U]

Ignition system

Ibiza & Cordoba 1.6i

1993 to 1997

Type		Motronic
Ignition coil		Bosch N152
Primary resistance	ohms	0.5 to 0.7
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5±1 BTDC @ 750 to 850 N/A
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	34±3 BTDC @ ≤3000
	° 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/Champion
Type		W8DTC / N7BYC
Electrode gap	mm	0.70 to 0.90

Electrical system

Ibiza & Cordoba 1.6i

1993 to 1997

Battery	V / CC / RC	12v / 36, 45Ah
Alternator voltage / full load current / engine rpm		14.1 / 70, 80 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

Ibiza & Cordoba 1.6i

1993 to 1997

Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	2.5 with backing

Tyres		
Saloon	Size	175/70x13: 185/60x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 1.8
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[0±10°]
Camber		-30'±20'
Castor		+1°30'±30'
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+15'±5'] N/A
Camber		-1°34'±20'

Torque wrench settings

Ibiza & Cordoba 1.6i

1993 to 1997

Cylinder head - stage 1	Nm	40
- stage 2	Nm	60
- stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	30 + 90° N
Main bearings	Nm	65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60 + 90° N
Front hubs	Nm	265
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

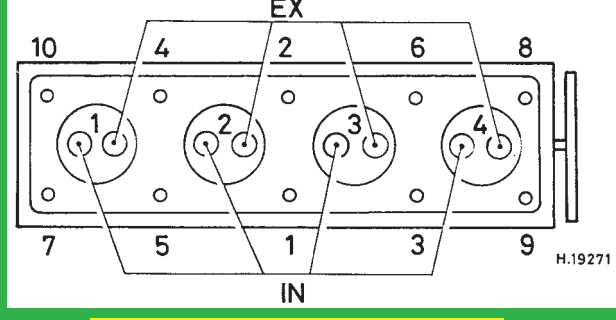
Capacities

Ibiza & Cordoba 1.6i

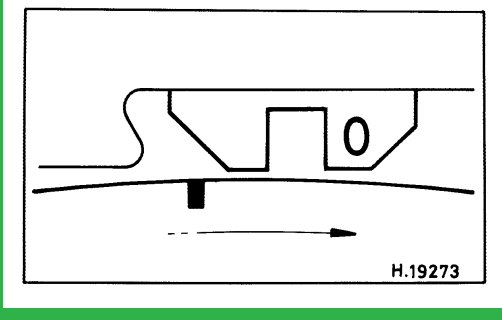
1993 to 1997

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	3.1
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	5.5
Fuel tank	litres	47

Notes and Illustrations



1598 cm³



1598 cm³