

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemIbiza 1.3i1993 to 1994

Type	AAV. 40kW. US83	
Capacity (cm ³) / number of cylinders	1272 / 4	
Compression ratio / pressure	bar	9.5 / ≥7.0
Oil pressure	bar	[2.0 to 7.0]
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	87
Radiator cap pressure	bar	1.3 to 1.5

Fuel systemIbiza 1.3i1993 to 1994

Idle speed - manual [auto]	rpm	750 to 850 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.2 to 1.0 N/A
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 systemIbiza 1.3i1993 to 1994

Type	Motronic	
Ignition coil	Bosch	
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 V = Vacuum NV = No Vacuum	5±1 BTDC @ 750 to 850	
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/Champion	
Type	W8DTC / N7BYC	
Electrode gap	mm	0.70 to 0.90

Electrical systemIbiza 1.3i1993 to 1994

Battery	V / CC / RC	12 / 36 or 45Ah
Alternator voltage / full load current / engine rpm	14.1 / 50 / 3000	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearIbiza 1.3i1993 to 1994

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

Tyres		
Saloon	Size	155/60x12:155/70x13: 175/70x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 2.0
- 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']
Camber	-1°34'±20'	

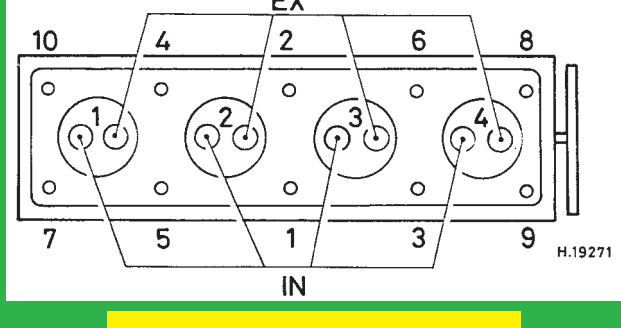
Torque wrench settingsIbiza 1.3i1993 to 1994

Cylinder head - stage 1	Nm	40
- stage 2	Nm	60
- stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	30 + 90°
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

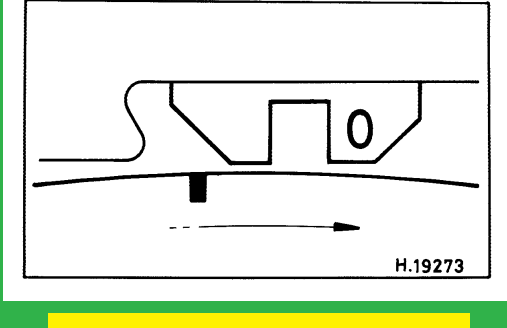
CapacitiesIbiza 1.3i1993 to 1994

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	3.1
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	4.2
Fuel tank	litres	47

Notes and Illustrations



1272 cm³



1272 cm³