

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 systemIbiza 1.21987 to 1993

Type		021-A-1000
Capacity (cm³) / number of cylinders		1193 / 4
Compression ratio / pressure	bar	9.5 / ≥11.5
Oil pressure	bar	1.0 [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	81 to 85
Radiator cap pressure	bar	1.0

Fuel systemIbiza 1.21987 to 1993

Idle speed - manual [auto]	rpm	925
Fast idle speed - manual [auto]	rpm	2600
CO @ idle speed [3000 rpm] - see page VI	%	2.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Pierburg
Type / ref		36 1B3
Main jet / needle		120
Injection pressure	bar	—
Pump pressure	bar	0.2 to 0.3
Octane rating	RON	90[E 91 RON]

Ignition systemIbiza 1.21987 to 1993

Type		Electronic - Hall effect¹
Ignition coil		Bosch. Marelli. TZ18H
Primary resistance	ohms	0.75 to 0.81
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	10.0
Distributor		Bosch/Marelli
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5 BTDC @ 925
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	46±4 BTDC @ 5200
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 to 5 @ 1400
	° Crankshaft @ rpm	16 to 21 @ 3000
	° Crankshaft @ rpm	28 to 32 @ 5200
Vacuum range check	mbar	160 to 493
Maximum vacuum advance	° Crankshaft	14 to 18
Spark plugs		Bosch/Champion
Type		F5DC / C7YC
Electrode gap	mm	0.80 to 0.90²

Electrical systemIbiza 1.21987 to 1993

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

Running gearIbiza 1.21987 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 1.21987 to 1993

Cylinder head - stage 1	Nm	20³
- stage 2	Nm	+ 90°³
- stage 3	Nm	+ 90°³
- stage 4	Nm	—
Big-end bearings	Nm	55±5
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

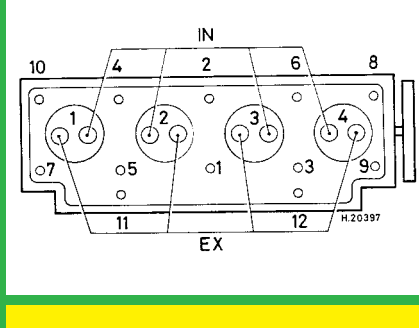
CapacitiesIbiza 1.21987 to 1993

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

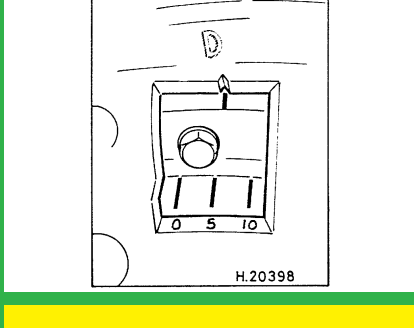
Notes and Illustrations

- ¹Bosch TSZ-h
- ²Bosch only. Champion: 0.70 to 0.80
- ³Bolts 1 to 10 only. Finally tighten bolts 11 & 12 to 20

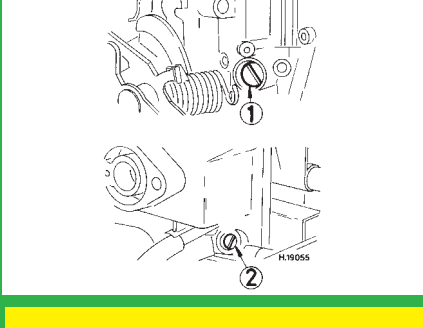
1: Idle speed2: CO / Mixture



1193 cm³



1193 cm³



Pierburg 1B3