

Engine & Cooling

Fuel

Ignition

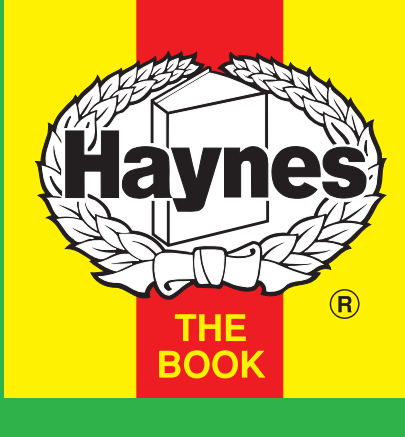
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system

306, 2.0i CAT & Cabrio

1994 to 1997

Type		XU10J2C/L/Z (RFX) 89kW US83
Capacity (cm³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	[4.4 to 5.2]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20±0.05
Valve clearance - exhaust	mm	0.40±0.05
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	89 to 99
Radiator cap pressure	bar	1.4

Fuel system

306, 2.0i CAT & Cabrio

1994 to 1997

Idle speed - manual [auto]	rpm	850±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	≥10.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Magneti-Marelli
Type / ref		MM 8P MPI
Main jet / needle		_
Injection pressure	bar	2.3 to 2.7
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system

306, 2.0i CAT & Cabrio

1994 to 1997

Type		Static
Ignition coil		2x Bosch. Valeo BAE 04
Primary resistance	ohms	0.7
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	[10 to 12 BTDC] N/A
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	_
	° 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		Eyquem/Champion
Type		RFC52LS / RC9YCC
Electrode gap	mm	0.80±0.05

Electrical system

306, 2.0i CAT & Cabrio

1994 to 1997

Battery	V / CC / RC	(12L1 250)
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

306, 2.0i CAT & Cabrio

1994 to 1997

Brakes -		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	_

Tyres		
Saloon	Size	185/55x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.2 Cabrio: 2.2 / 2.3
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0±0.5
Camber		-20'±30'
Castor		3°20'±30'
King pin inclination		+11°±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.2±0.75
Camber		-1°20'±15'

Torque wrench settings

306, 2.0i CAT & Cabrio

1994 to 1997

Cylinder head - stage 1	Nm	35: Bolts ≤122mm
- stage 2	Nm	70
Cylinder head - stage 3	Nm	+ 160°
- stage 4	Nm	_
Big-end bearings	Nm	40 ¹
Main bearings	Nm	70
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	50 LkC
Front hubs	Nm	325
Rear hubs	Nm	185
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	27

Capacities

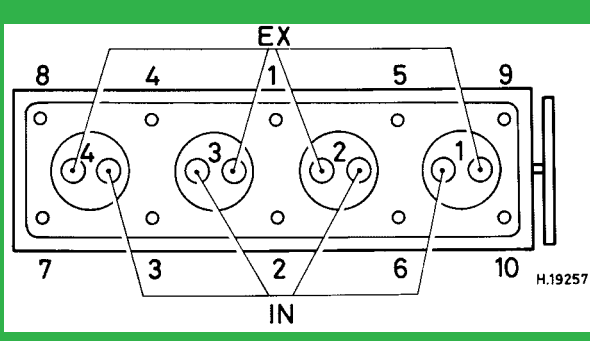
306, 2.0i CAT & Cabrio

1994 to 1997

Engine oil & filter	litres	4.75. A/C: 4.5
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	7.0
Fuel tank	litres	60

Notes and Illustrations

¹Slacken, then 20 + 70°



1998 cm³