

Engine & Cooling

Fuel

Ignition

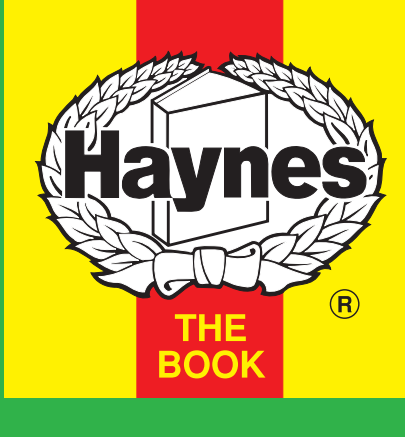
Electrical

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Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system309, 1.6i1986 to 1990

Type		XU5JA (B6D) (83kW)
Capacity (cm³) / number of cylinders		1580 / 4
Compression ratio / pressure	bar	9.8 / _
Oil pressure	bar	1.4 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20
Valve clearance - exhaust	mm	0.40
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	1.0

Fuel system309, 1.6i1986 to 1990

Idle speed - manual [auto]	rpm	900±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5 [≤0.5]
HC @ idle speed [3000 rpm] - see page VI	ppm	≤250
CO2 @ idle speed [3000 rpm] - see page VI	%	≥10.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		LE2-Jetronic
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	3.0±0.1
Octane rating	RON	97[RA] ¹

Ignition system309, 1.6i1986 to 1990

Type		Electronic
Ignition coil		Bosch
Primary resistance	ohms	0.82
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch/Ducellier
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 900 ¹
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	C019-D013
	° Crankshaft @ rpm	30 BTDC @ 3000
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	8 to 13 @ 1300
	° Crankshaft @ rpm	15 to 20 @ 1700
	° Crankshaft @ rpm	32 to 36 @ 3500
Vacuum range check	mbar	266 to 665
Maximum vacuum advance	° Crankshaft	10 to 14
Spark plugs		Bosch/Champion
Type		H6DC / S279YC ²
Electrode gap	mm	0.80

Electrical system309, 1.6i1986 to 1990

Battery	V / CC / RC	12 / 210 / 65
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear309, 1.6i1986 to 1990

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

Tyres		
Saloon	Size	170/65x14: 175/65x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.9 / 1.8
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+0.5±0.5 PW
Camber		-30'±30'. 90 ►: -40'±30'
Castor		+2°±30'. 90 ►: +2°10'±30'
King pin inclination		+10°15'±30'.90 ►: +10°40'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.6±0.8 PW ³
Camber		-50'±30'

Torque wrench settings309, 1.6i1986 to 1990

Cylinder head - stage 1	Nm	60 ⁴
- stage 2	Nm	Slacken each bolt in turn ⁴
Cylinder head - stage 3	Nm	20 ⁴
- stage 4	Nm	+ 120° ⁴
Big-end bearings	Nm	40 ⁵
Main bearings	Nm	49
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	49 LkC
Front hubs	Nm	265
Rear hubs	Nm	215
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	10 to 20

Capacities309, 1.6i1986 to 1990

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	8.0
Fuel tank	litres	55

Notes and Illustrations

¹[E 95 RON], -2°

²88 ►: Eyquem FC58LS / Champion C7YCX

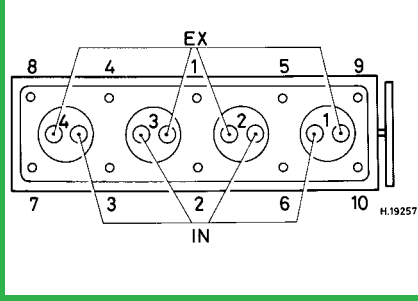
³90 ►: +1.8±0.8

⁴04.87 ► Torx bolts: 60, slacken, then 20 ,then + 300°

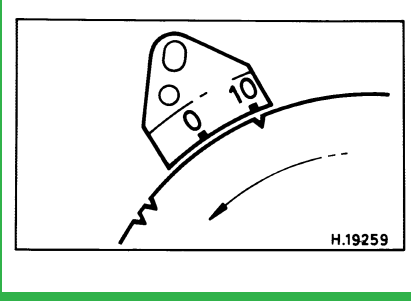
⁵Slacken, then 20 + 70°

1: Idle speed

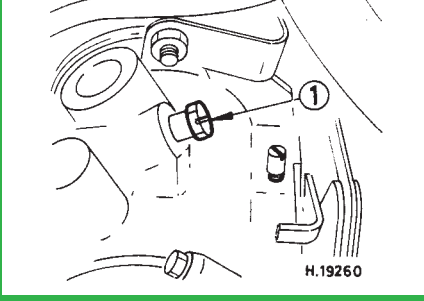
2: CO / Mixture



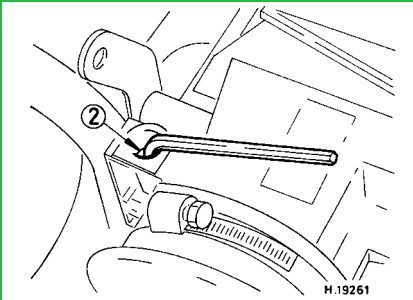
1580 cm³



1580 cm³



LE2-Jetronic



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