

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system405, 1.9i1988 to 1991

Type		XU9J2 (D6A) (90kW)
Capacity (cm³) / number of cylinders		1905 / 4
Compression ratio / pressure	bar	9.3 / _
Oil pressure	bar	2.1 [4.1]
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	88
Radiator cap pressure	bar	1.0

Fuel system405, 1.9i1988 to 1991

Idle speed - manual [auto]	rpm	900±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	2.0±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	12.5±0.5
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		L3.1-Jetronic
Main jet / needle		_
Injection pressure	bar	2.3 to 2.7
Pump pressure	bar	2.5
Octane rating	RON	97[RA] ¹

Ignition system405, 1.9i1988 to 1991

Type		Electronic
Ignition coil		_
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		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5 BTDC @ 900 ¹
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	C037-D019
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	5 to 11 @ 1350
	° Crankshaft @ rpm	18 to 24 @ 2000
	° Crankshaft @ rpm	25 to 29 @ 3200
Vacuum range check	mbar	160 to 547
Maximum vacuum advance	° Crankshaft	18 to 22
Spark plugs		Eyquem/Champion
Type		FC58LS / C7YCX
Electrode gap	mm	0.80±0.10

Electrical system405, 1.9i1988 to 1991

Battery	V / CC / RC	12 / 200 / 33
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear405, 1.9i1988 to 1991

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

Tyres		
Saloon	Size	185/65x14
Estate / Van	Size	185/65x14
Pressure - front / rear - Saloon	bar	2.0 / 2.0 ²
- Estate / Van	bar	2.1 / 2.2 ³

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0±0.5 PW
Camber		0±30'
Castor		+2°25'±30' ⁴
King pin inclination		+11°25'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-2.5±0.8 PW ⁵
Camber		-1°20'±30'

Torque wrench settings405, 1.9i1988 to 1991

Cylinder head - stage 1	Nm	60
- stage 2	Nm	Slacken
Cylinder head - stage 3	Nm	20
- stage 4	Nm	+ 300°
Big-end bearings	Nm	40 ⁶
Main bearings	Nm	49
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	49 LkC
Front hubs	Nm	265
Rear hubs	Nm	275
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	27

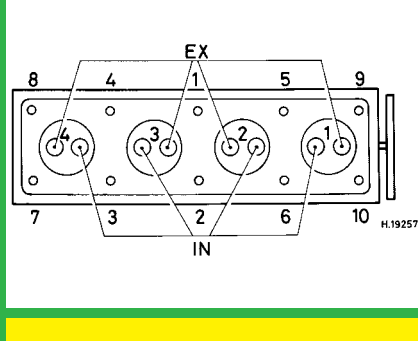
Capacities405, 1.9i1988 to 1991

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	2.4
Final drive	litres	WT
Cooling system	litres	6.6
Fuel tank	litres	70

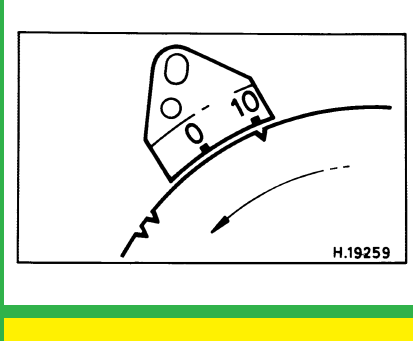
Notes and Illustrations

- ¹[E 95 RON], -3°
- ²AT: 2.0 / 2.1
- ³AT: 2.1 / 2.3
- ⁴Saloon PAS: +3°10'±30'
- ⁵Estate: +1.4±0.8
- ⁶Slacken, then 20 + 70°

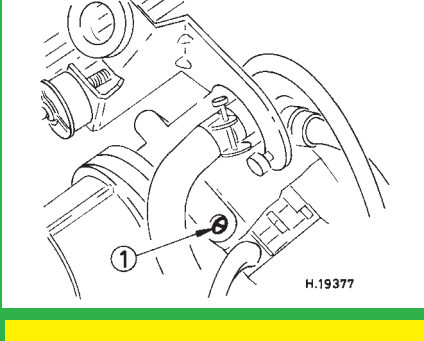
1: Idle speed2: CO / Mixture



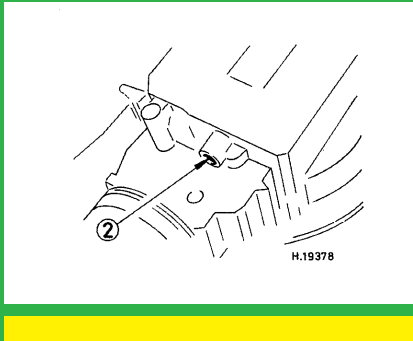
1905 cm³, 8V



1905 cm³, 8V, XU9J2 (D6A)



L3.1-Jetronic



L3.1-Jetronic