

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system605, 2.0i1990 to 1993

Type		XU10J2/K (R6A) 94kW 15.04
Capacity (cm³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	8.8 / _
Oil pressure	bar	1.7 [4.8]
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	89 to 101
Radiator cap pressure	bar	1.4

Fuel system605, 2.0i1990 to 1993

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	2.5±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	≥12.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		LE2-Jetronic MPI
Main jet / needle		_
Injection pressure	bar	2.5 to 3.0
Pump pressure	bar	3.0
Octane rating	RON	95[E 95 RON]

Ignition system605, 2.0i1990 to 1993

Type		Electronic
Ignition coil		Ducellier BTR 05
Primary resistance	ohms	0.7
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Ducellier
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	6 BTDC @ 850
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	C059-D045
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	8 to 11 @ 1400
	° Crankshaft @ rpm	27.5 to 32 @ 3200
	° Crankshaft @ rpm	20 to 27 @ 6000
Vacuum range check	mbar	287 to 334
Maximum vacuum advance	° Crankshaft	5 to 9
Spark plugs		Bosch/Champion
Type		F6DCOR / C7YCX
Electrode gap	mm	0.80

Electrical system605, 2.0i1990 to 1993

Battery	V / CC / RC	(12L1 300, 12L2 400)
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear605, 2.0i1990 to 1993

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

Tyres		
Saloon	Size	195/65x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+0.71±0.5 ¹
Camber		-18'±30'
Castor		+2°35'±30'
King pin inclination		+13°38'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.14±0.3 ² PW
Camber		-1°29'±30'

Torque wrench settings605, 2.0i1990 to 1993

Cylinder head - stage 1	Nm	35
- stage 2	Nm	70
Cylinder head - stage 3	Nm	+ 160°
- stage 4	Nm	_
Big-end bearings	Nm	40 ³
Main bearings	Nm	70
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	50 LkC
Front hubs	Nm	345
Rear hubs	Nm	280
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	18

Capacities605, 2.0i1990 to 1993

Engine oil & filter	litres	5.0. 93 MY: 4.5
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	2.0
Final drive	litres	WT
Cooling system	litres	7.3
Fuel tank	litres	80

Notes and Illustrations

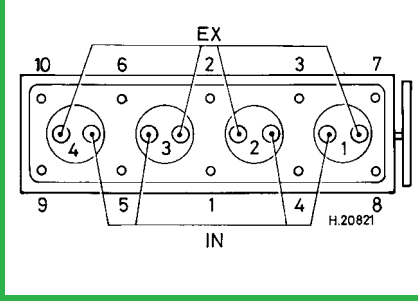
¹91 ►: +1.19±0.5

²91 ►: +1.4±0.3

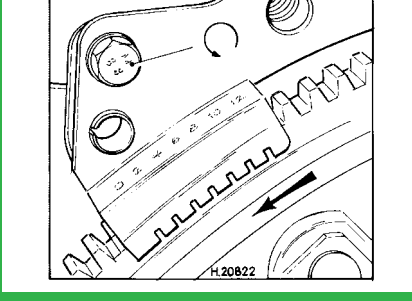
³Slacken, then 20 + 70°

1: Idle speed

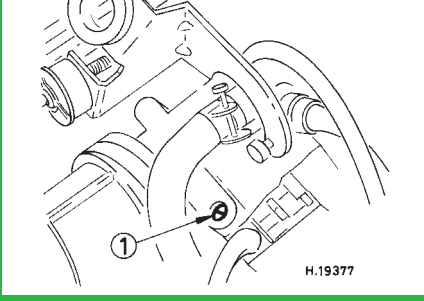
2: CO / Mixture



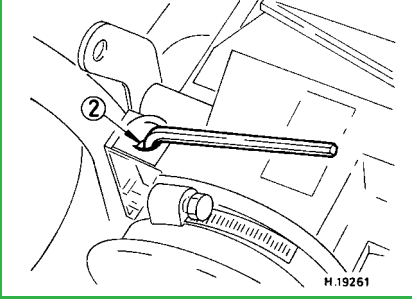
1998 cm³, 8V



1998 cm³, 8V



LE2-Jetronic



LE2-Jetronic