

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system605, 2.01990 to 1992

Type	XU102C/K (R2A) 84kW	
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, 2.01990 to 1992

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	3200
CO @ idle speed [3000 rpm] - see page VI	%	0.8 to 1.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤300
CO2 @ idle speed [3000 rpm] - see page VI	%	≥10.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	Solex	
Type / ref	34-34 Z1 448/480	
Main jet / needle	120, 120	
Injection pressure	bar	_
Pump pressure	bar	0.32
Octane rating	RON	95[E 95 RON]

Ignition system605, 2.01990 to 1992

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	10 BTDC @ 750
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	C056-D006
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	12 to 16 @ 1600
	° Crankshaft @ rpm	21 to 25 @ 3000
	° Crankshaft @ rpm	34 to 38 @ 5000
Vacuum range check	mbar	100 to 500
Maximum vacuum advance	° Crankshaft	20 to 24
Spark plugs	Eyquem/Champion	
Type	FC58LS / C7YC	
Electrode gap	mm	0.80

Electrical system605, 2.01990 to 1992

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, 2.01990 to 1992

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

Tyres		
Saloon	Size	185/65x15
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
Camber	-13'±30'	
Castor	+2°40'±30'	
King pin inclination	+13°30'±30'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.14±0.3 PW
Camber	-1°26'±30'	

Torque wrench settings605, 2.01990 to 1992

Cylinder head - stage 1	Nm	35
- 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	15
Flywheel [driveplate]	Nm	50 LkC
Front hubs	Nm	345
Rear hubs	Nm	280
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	18

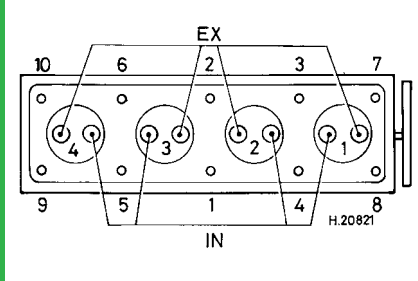
Capacities605, 2.01990 to 1992

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	2.0
Final drive	litres	WT
Cooling system	litres	7.6
Fuel tank	litres	80

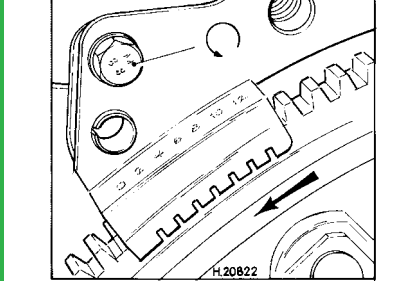
Notes and Illustrations

¹Slacken, then 20 + 70°

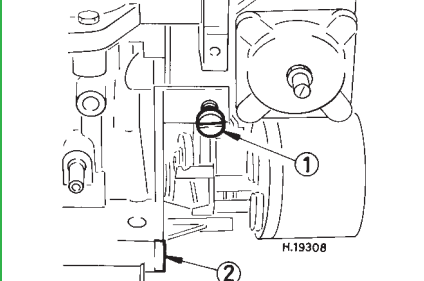
1: Idle speed 2: CO / Mixture



1998 cm³, 8V



1998 cm³, 8V



Solex Z1