

Engine and cooling system

XM, 2.01989 to 1992

Type	XU102C (R2A) 84kW 15.04	
Capacity (cm ³) / number of cylinders	1998 / 4	
Compression ratio / pressure	bar	8.8 / _
Oil pressure	bar	[≥4.0]
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
Radiator cap pressure	bar	1.4

Fuel system

XM, 2.01989 to 1992

Idle speed - manual [auto]	rpm	750±50. A/c: 800+0-50
Fast idle speed - manual [auto]	rpm	A/c: 800+50-0
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
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 PSA 448. A/C: 480	
Main jet / needle	120±5, 120±5 ¹	
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	95[E 95 RON]

Ignition system

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Type	Electronic	
Ignition coil	Ducellier BTR 05	
Primary resistance	ohms	0.8
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	10 BTDC @ 750
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	C056-D006
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 @ 700 to 1400
	° Crankshaft @ rpm	10 @ 2200 to 2900
	° Crankshaft @ rpm	24 to 28 @ 5000
Vacuum range check	mbar	100 to 450
Maximum vacuum advance	° Crankshaft	20 to 24
Spark plugs	Bosch/Champion	
Type	F6DCOR / C7YCX	
Electrode gap	mm	0.80

Electrical system

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Battery	V / CC / RC	12 / 250 / _, 300 / _
Alternator voltage / full load current / engine rpm	13.5 / 65, 75 / 3000	
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

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Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	175/70x15: 185/65x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 1.9
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to -3.0
Camber	0±30' ² N/A	
Castor	+2°30'±30' N/A	
King pin inclination	+13°14' ³ N/A	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+0.5 to 6.5 N/A
Camber	+50'±20' N/A	

Torque wrench settings

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Cylinder head - stage 1	Nm	40 oiled
- stage 2	Nm	70
Cylinder head - stage 3	Nm	+ 160°
- stage 4	Nm	_
Big-end bearings	Nm	40, loosen, then ⁴
Main bearings	Nm	70
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	50
Front hubs	Nm	320
Rear hubs	Nm	275
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	25

Capacities

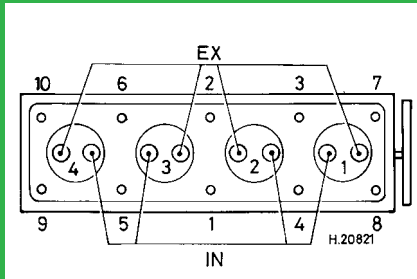
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Engine oil & filter	litres	5.4
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	7.6. A/C: 8.6
Fuel tank	litres	80

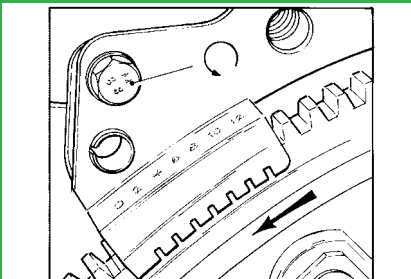
Notes and Illustrations

- ¹Primary jet may be 122
- ²Hydractive suspension: -15'±30'
- ³Hydractive suspension: +13°28'
- ⁴20 + 70°

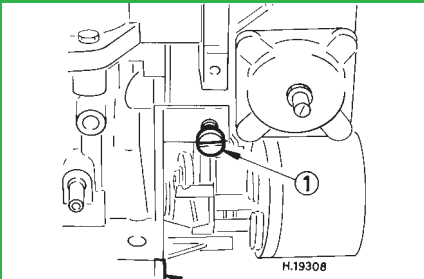
1: Idle speed2: CO / Mixture



1998 cm³, 8V



1998 cm³, 8V



Solex Z1