

Engine & Cooling

Fuel

Ignition

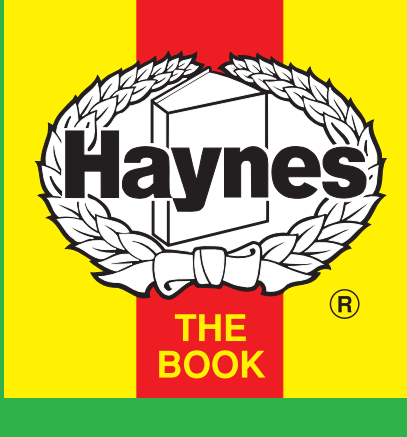
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system309, 1.91989 to 1991

Type	XU92C (D2A) 75kW	
Capacity (cm³) / number of cylinders	1905 / 4	
Compression ratio / pressure	bar	9.3 / _
Oil pressure	bar	[3.5]
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	82 to 93
Radiator cap pressure	bar	1.0

Fuel system309, 1.91989 to 1991

Idle speed - manual [auto]	rpm	650 to 700
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.8 to 1.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
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 427/428/522	
Main jet / needle	117.5, 115	
Injection pressure	bar	_
Pump pressure	bar	0.32
Octane rating	RON	97[RA] ¹

Ignition system309, 1.91989 to 1991

Type	Electronic - Hall effect	
Ignition coil	Bosch, Ducellier	
Primary resistance	ohms	B: 0.82±10%. D: 0.8±5%
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor	Ducellier/Bosch	
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation	_	
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 750 ¹
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	C001-D001
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	12 to 14 @ 1000
	° Crankshaft @ rpm	18 to 23 @ 1500
	° Crankshaft @ rpm	27 to 31 @ 5000
Vacuum range check	mbar	80 to 540
Maximum vacuum advance	° Crankshaft	13 to 17
Spark plugs	Eyquem/Champion	
Type	FC52LS / C9YCX	
Electrode gap	mm	0.80

Electrical system309, 1.91989 to 1991

Battery	V / CC / RC	(12L1 200)
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, 1.91989 to 1991

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

Tyres		
Saloon	Size	165/70x13: 175/65x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.9 / 2.1
- Estate / Van	bar	_

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

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.9±0.8 PW ³
Camber	-50'±30'. 90 ►: -1°15'±30'	

Torque wrench settings309, 1.91989 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 ⁴
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, 1.91989 to 1991

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

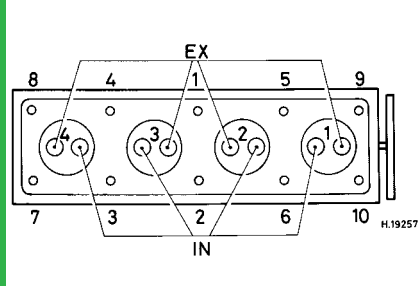
¹[E 95 RON]: 7 BTDC @ 850

²90 ►: +1.0±0.5

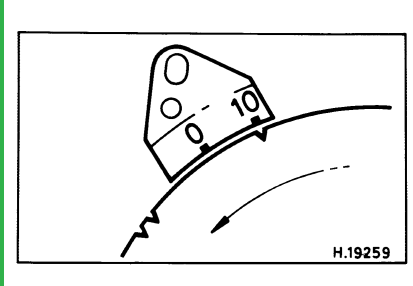
³90 ►: +2.5±1.25

⁴Slacken, then 20 + 70°

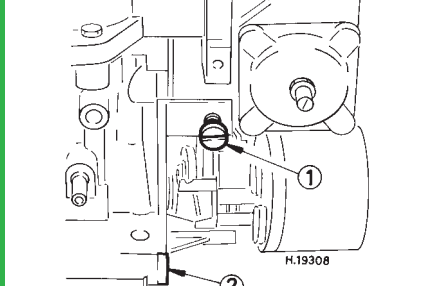
1: Idle speed 2: CO / Mixture



1905 cm³, 8V



1905 cm³, 8V



Solex Z1