

Engine & Cooling

Fuel

Ignition

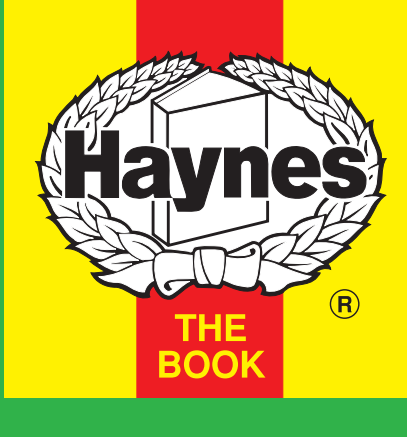
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemBX 161984 to 1988

Type	XU5S (171C)	
Capacity (cm ³) / number of cylinders	1580 / 4	
Compression ratio / pressure	bar	9.5 / _
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
Radiator cap pressure	bar	1.0

Fuel systemBX 161984 to 1988

Idle speed - manual [auto]	rpm	650±50
Fast idle speed - manual [auto]	rpm	_
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/Weber	
Type / ref	S: 32-34 Z1. W: 32-34DRTC	
Main jet / needle	S: 140, 120. W: 107, 112	
Injection pressure	bar	_
Pump pressure	bar	≥0.27
Octane rating	RON	98[RA] ¹

Ignition systemBX 161984 to 1988

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 @ 850 ¹
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	M148E
	° Crankshaft @ rpm	23 to 27 @ 3000
	° Crankshaft @ rpm	34 to 38 @ 5200
Centrifugal check.	° Crankshaft @ rpm	0 to 6 @ 1200
	° Crankshaft @ rpm	13 to 17 @ 3000
	° Crankshaft @ rpm	24 to 28 @ 5200
Vacuum range check	mbar	100 to 460
Maximum vacuum advance	° Crankshaft	20 to 24
Spark plugs	Bosch/Champion	
Type	H6DC / S279YC ²	
Electrode gap	mm	0.60 to 0.70

Electrical systemBX 161984 to 1988

Battery	V / CC / RC	12 / 225 / 45 or / 200 / 33
Alternator voltage / full load current / engine rpm	13.8 to 14.5 / _ / 3600	
Starter motor current / voltage - cranking	A / V	220 / _
- locked	A / V	350 / _

Running gearBX 161984 to 1988

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

Tyres		
Saloon	Size	155x14: 165/70x14: 170/65x365
Estate / Van	Size	165/70x14
Pressure - front / rear - Saloon	bar	165x14: 2.0 / 2.0 ³
- Estate / Van	bar	2.3 / 2.5

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to -3.0
Camber	0±30'	
Castor	+2°±35'	
King pin inclination	+11°58'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to +5.0
Camber	-9'±20' [88 ►: -1°±20']	

Torque wrench settingsBX 161984 to 1988

Cylinder head - stage 1	Nm	60, then slacken ⁴
- stage 2	Nm	20 + 120 ^{o4}
Cylinder head - stage 3	Nm	Warm up, then cool, slacken ⁴
- stage 4	Nm	20 + 120 ^{o4}
Big-end bearings	Nm	50
Main bearings	Nm	53
Clutch cover	Nm	22
Flywheel [driveplate]	Nm	50 LkC
Front hubs	Nm	270
Rear hubs	Nm	270
Wheel nuts / bolts	Nm	70. Alloy: 90
Spark plugs	Nm	12 ²

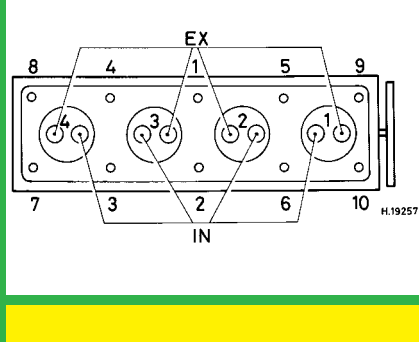
CapacitiesBX 161984 to 1988

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	2.5
Final drive	litres	WT
Cooling system	litres	6.5
Fuel tank	litres	52

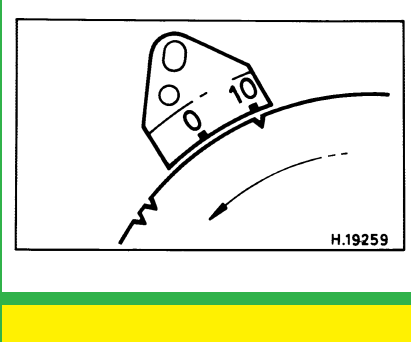
Notes and Illustrations

- ¹[E 95 RON]: 8 BTDC @ 850
- ²04.88 ►: FC62LS / C7YCX. TWS: 25
- ³170/65x365: 1.9 / 2.1. 155x14: 2.2 / 2.2
- ⁴1987 ►: Torx type: 60, then slacken. 20 + 300°

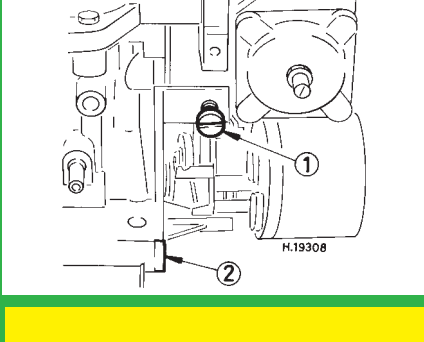
1: Idle speed 2: CO / Mixture



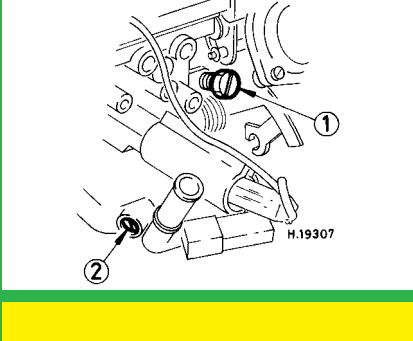
1580 cm³



1580 cm³



Solex Z1



Weber DRTC