

Engine & Cooling

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Ignition

Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system9 & 11, 1.2 (L42S/B/C37S)1985 to 1989

Type		C1G-D7-10
Capacity (cm ³) / number of cylinders		1237 / 4
Compression ratio / pressure	bar	9.25 / _
Oil pressure	bar	0.7 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.15
Valve clearance - exhaust	mm	0.20
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	86 or 89
Radiator cap pressure	bar	—

Fuel system9 & 11, 1.2 (L42S/B/C37S)1985 to 1989

Idle speed - manual [auto]	rpm	S: 625±25. Z: 650±25
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Solex/Zenith
Type / ref		S: 32 BIS. Z: 32IF2
Main jet / needle		S: 115. Z: 130
Injection pressure	bar	—
Pump pressure	bar	0.17 to 0.27
Octane rating	RON	95[E 98 RON]

Ignition system9 & 11, 1.2 (L42S/B/C37S)1985 to 1989

Type		AEI
Ignition coil		Renix
Primary resistance	ohms	0.4 to 0.8
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Renix
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	6±1 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	RE450
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	5 to 7 @ 750
	° Crankshaft @ rpm	11 to 17 @ 1550
	° Crankshaft @ rpm	26 to 30 @ 4050
Vacuum range check	mbar	0 to 300 @ 4550
Maximum vacuum advance	° Crankshaft	14
Spark plugs		AC/Champion
Type		C42CXLS / N281YC
Electrode gap	mm	0.75 to 0.85

Electrical system9 & 11, 1.2 (L42S/B/C37S)1985 to 1989

Battery	V / CC / RC	12 / 175 / 60
Alternator voltage / full load current / engine rpm		—
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	350 to 420 / _

Running gear9 & 11, 1.2 (L42S/B/C37S)1985 to 1989

Brakes -		
Front (min. friction material thickness)	mm	6.0 with backing
Rear (min. friction material thickness)	mm	2.5 with backing

Tyres		
Saloon	Size	145x13: 155x13: 175/70x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.8 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (—)	mm [°]	-1.0±1.0
Camber		0±30'
Castor		+1°±30'
King pin inclination		+12°55'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (—)	mm [°]	0 to +3.0
Camber		-50'±30'

Torque wrench settings9 & 11, 1.2 (L42S/B/C37S)1985 to 1989

Cylinder head - stage 1	Nm	55 to 65
- stage 2	Nm	—
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	35
Main bearings	Nm	55 to 65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	50
Front hubs	Nm	250
Rear hubs	Nm	160
Wheel nuts / bolts	Nm	80
Spark plugs	Nm	—

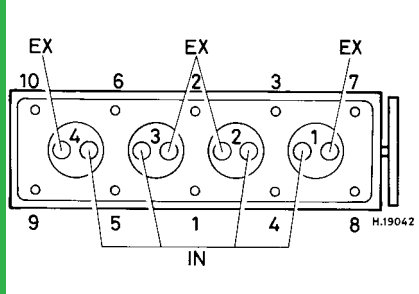
Capacities9 & 11, 1.2 (L42S/B/C37S)1985 to 1989

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	3.25 [3.4] ¹
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	47

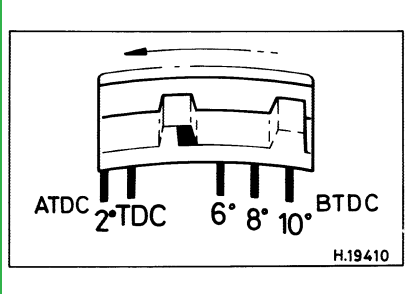
Notes and Illustrations

¹Plastic plug: 2.8 [2.9]

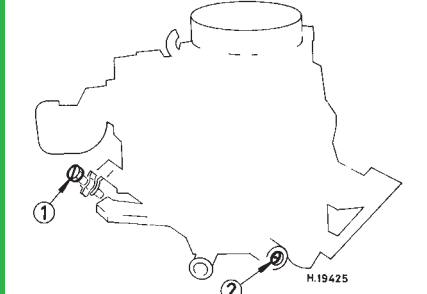
1: Idle speed 2: CO / Mixture



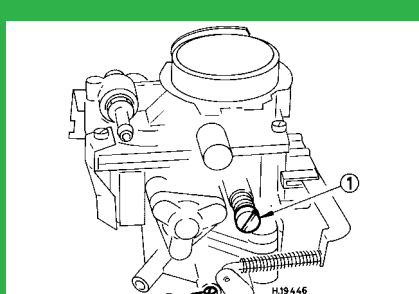
1237 cm³



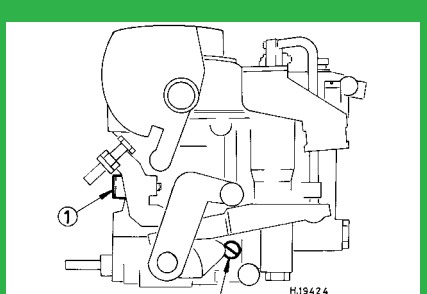
1237 cm³



Solex 32 BIS



Solex 32 BIS, alternative



Zenith 32 IF2