

Engine & Cooling

Fuel

Ignition

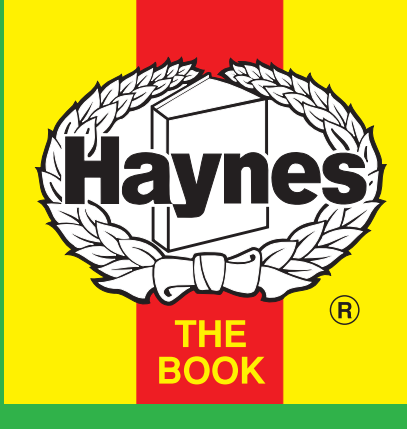
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system5, Van 1.2 (B/C/S40F)1987 to 1990

Type		C1G-E7-20, C1G-E7-02, C1G-7-22
Capacity (cm³) / number of cylinders		1237 / 4
Compression ratio / pressure	bar	9.2 / _
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	83
Radiator cap pressure	bar	0.9

Fuel system5, Van 1.2 (B/C/S40F)1987 to 1990

Idle speed - manual [auto]	rpm	700±50
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 & 907. Z: 32IF2
Main jet / needle		S: 115 / 120. Z: 130
Injection pressure	bar	_
Pump pressure	bar	0.17 to 0.33
Octane rating	RON	98[E 95 RON]

Ignition system5, Van 1.2 (B/C/S40F)1987 to 1990

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		
Total ignition advance	° Crankshaft @ rpm	RE450. C1G-7-22: RE306
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	RE306: 4 to 8 @ 750 ¹
	° Crankshaft @ rpm	RE306: 11 to 17 @ 1550 ¹
	° Crankshaft @ rpm	RE306: 25 to 31 @ 4050 ¹
Vacuum range check	mbar	RE306: 0 to 300 ¹
Maximum vacuum advance	° Crankshaft	RE306: ≥12 ¹
Spark plugs		Bosch/Champion
Type		W8DC / N281YC
Electrode gap	mm	0.75 to 0.85

Electrical system5, Van 1.2 (B/C/S40F)1987 to 1990

Battery	V / CC / RC	12 / 175 / 60
Alternator voltage / full load current / engine rpm		13.5 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	340 to 460 / _

Running gear5, Van 1.2 (B/C/S40F)1987 to 1990

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

Tyres		
Saloon	Size	145/70x13: 155/70x13
Estate / Van	Size	145/70x13: 155/70x13
Pressure - front / rear - Saloon	bar	2.0 / 2.2
- Estate / Van	bar	2.2 / 2.2

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0±1.0
Camber		+15'±30'
Castor		+2°±30'. Van: +1°30'±30'
King pin inclination		+12°40'±30'

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

Torque wrench settings5, Van 1.2 (B/C/S40F)1987 to 1990

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. Van: 175
Wheel nuts / bolts	Nm	80. Van: 90
Spark plugs	Nm	_

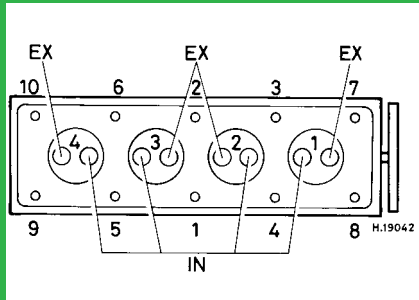
Capacities5, Van 1.2 (B/C/S40F)1987 to 1990

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	2.8 [2.9]
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	5.5
Fuel tank	litres	43

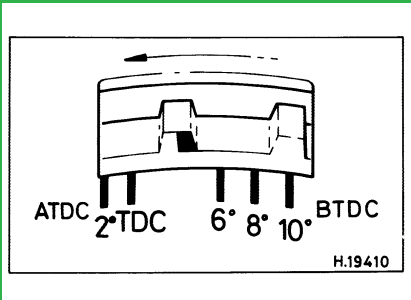
Notes and Illustrations

¹RE450: AEI control

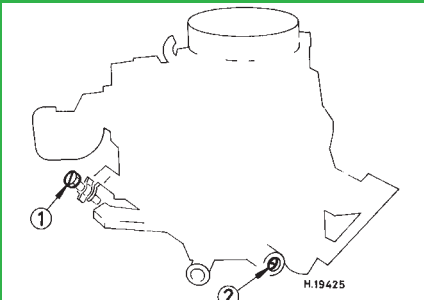
1: Idle speed 2: CO / Mixture



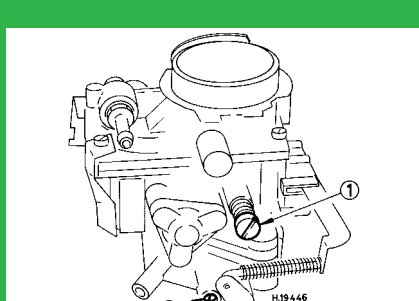
1237 cm³



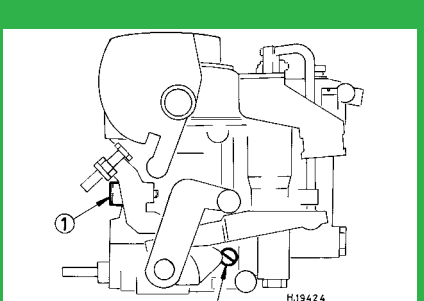
1237 cm³



Solex 32 BIS



Solex 32 BIS, alternative



Zenith 32 IF2