

Engine & Cooling Fuel Ignition Electrical Running gear Torque settings Capacities Notes & Illustrations



Automotive Technical DATA BOOK

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Engine and cooling system 5 & Extra 1.4 (B/F402) 1989 to 1991

Type		C1J-7-80
Capacity (cm ³) / number of cylinders		1397 / 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 system 5 & Extra 1.4 (B/F402) 1989 to 1991

Idle speed - manual [auto]	rpm	625±25
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	_
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Solex/Zenith
Type / ref		S: 32 BIS 849. Z: 32 IF2 ...11
Main jet / needle		S: 112.5. Z: 124
Injection pressure	bar	_
Pump pressure	bar	0.17 to 0.33
Octane rating	RON	91[E 95 RON]

Ignition system 5 & Extra 1.4 (B/F402) 1989 to 1991

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	10±1 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	RE211
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	3 to 11 @ 650
	° Crankshaft @ rpm	5 to 7 @ 1550
	° Crankshaft @ rpm	20 to 23 @ 4050
Vacuum range check	mbar	300 @ 4550 rpm
Maximum vacuum advance	° Crankshaft	≥12
Spark plugs		Bosch/Champion
Type		W8DC / N281YC
Electrode gap	mm	0.75 to 0.85

Electrical system 5 & Extra 1.4 (B/F402) 1989 to 1991

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 gear 5 & Extra 1.4 (B/F402) 1989 to 1991

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	145x13: 155x13
Pressure - front / rear - Saloon	bar	2.0 / 2.2
- Estate / Van	bar	2.1 / 2.5

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-1.0±1.0
Camber		+15'±30' ¹
Castor		+2°±30'
King pin inclination		+12°40'±30' ²

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	0 to +3.0 ³
Camber		-50'±30'

Torque wrench settings 5 & Extra 1.4 (B/F402) 1989 to 1991

Cylinder head - stage 1	Nm	55 to 65
- stage 2	Nm	_
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	45
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	_

Capacities 5 & Extra 1.4 (B/F402) 1989 to 1991

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	Steel: [3.4] ⁴
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	5.5
Fuel tank	litres	43

Notes and Illustrations

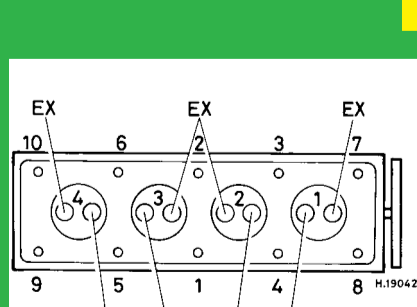
¹Extra: +30'±30'

²Extra: +12°10'±30'

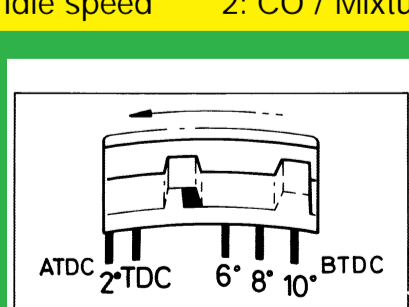
³Extra: +2.0 to 5.0

⁴Plastic plug: [2.9]

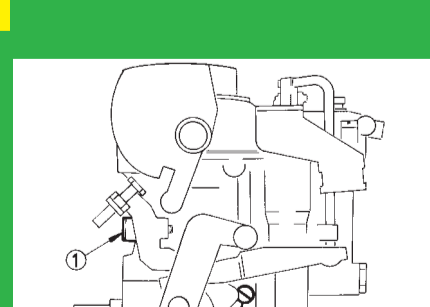
1: Idle speed 2: CO / Mixture



1397 cm³



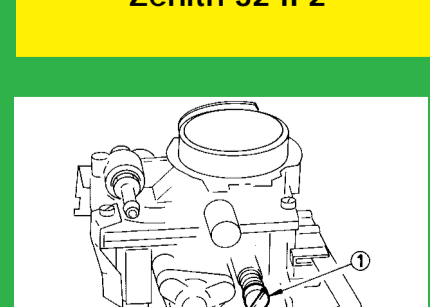
1397 cm³



Zenith 32 IF2



Solex 32 BIS



Solex 32 BIS, alternative