

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling system19, 1.4 (B/C/L531)1989 to 1993

Type		C1J-H7-42 45kW
Capacity (cm³) / 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	86
Radiator cap pressure	bar	1.2

Fuel system19, 1.4 (B/C/L531)1989 to 1993

Idle speed - manual [auto]	rpm	700±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Zenith
Type / ref		32 IF2 V10522
Main jet / needle		130
Injection pressure	bar	_
Pump pressure	bar	0.17 to 0.33
Octane rating	RON	95[E 95 RON]

Ignition system19, 1.4 (B/C/L531)1989 to 1993

Type		Contact breaker - Electronic
Ignition coil		_
Primary resistance	ohms	1.45
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Ducellier
Points gap (air gap)	mm	_
Dwell angle	° (%)	57±3 (63±3)
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	5±2 BTDC @ 800±50
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	R349-D89
	° Crankshaft @ rpm	10±1 BTDC @ 800
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 @ 1200
	° Crankshaft @ rpm	6 to 10 @ 2000
	° Crankshaft @ rpm	24 to 28 @ 5500
Vacuum range check	mbar	160 to 499
Maximum vacuum advance	° Crankshaft	20 to 24
Spark plugs		AC/Champion
Type		C42CMLS / N281YC
Electrode gap	mm	0.75 to 0.85

Electrical system19, 1.4 (B/C/L531)1989 to 1993

Battery	V / CC / RC	12 / 35Ah
Alternator voltage / full load current / engine rpm		13.5 to 15.0 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	350 to 460 / _

Running gear19, 1.4 (B/C/L531)1989 to 1993

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

Tyres		
Saloon	Size	145x13: 155x13: 165/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.2
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0±1.0
Camber		-5'±30'
Castor		+1°55'. PAS: +4°
King pin inclination		+12°55'±30'
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+0.5 to 2.5
Camber		-50'±30'

Torque wrench settings19, 1.4 (B/C/L531)1989 to 1993

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	18
Flywheel [driveplate]	Nm	50
Front hubs	Nm	250
Rear hubs	Nm	160
Wheel nuts / bolts	Nm	80
Spark plugs	Nm	_

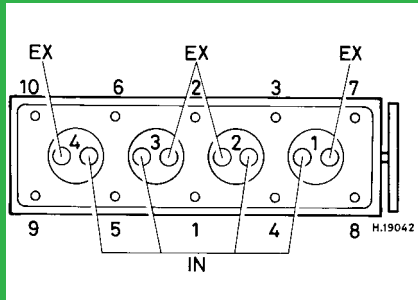
Capacities19, 1.4 (B/C/L531)1989 to 1993

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	5.4
Fuel tank	litres	55

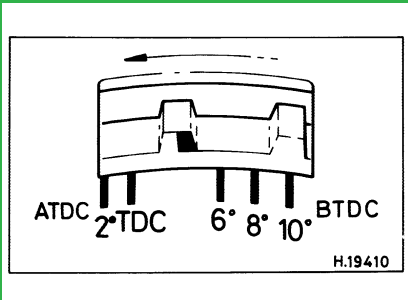
Notes and Illustrations



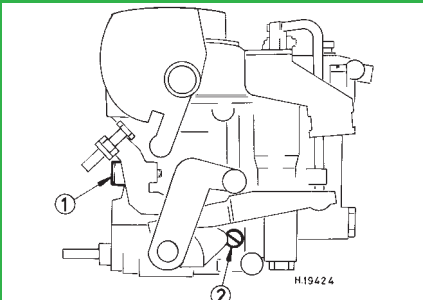
1: Idle speed 2: CO / Mixture



1397 cm³



1397 cm³



Zenith 32 IF2