Haynes THE BOOK ®

Automotive Technical DATA BOOK

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MENU HELP

Engine and cooling system

		Maestro 1.3 & Van 1983 to 1989
Type		12HC / HE[1] OHV
Capacity (cm³) / number of cylinders		1275 / 4
Compression ratio / pressure	bar	9.75 / _
Oil pressure	bar	1.0 [4.1]
Oil temperature	ºC	_
Valve clearance - inlet	mm	0.35[2]
Valve clearance - exhaust	mm	0.35[2]
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	ºC	88
Radiator cap pressure	bar	1.04

Fuel system

		Maestro 1.3 & Van 1983 to 1989
Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	1150±50 [1200±50][3]
CO @ idle speed [3000 rpm] - see page VI	%	2.5±1.0
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		SU
Type / ref		HIF 44 / 44E / FZX1468 / 22
Main jet / needle		0.100 / BCZ
Injection pressure	bar	_
Pump pressure	bar	0.3
Octane rating	RON	97[L]

Ignition system

		Maestro 1.3 & Van 1983 to 1989
Type		Electronic
Ignition coil		Unipart GCL 143
Primary resistance	ohms	0.71 to 0.81
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	12.0
Distributor		Lucas
Points gap (air gap)	mm	[0.28±0.08]
Dwell angle	º (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	º Crankshaft @ rpm	12 BTDC @ 1500
V = Vacuum NV = No Vacuum		NV
Total ignition advance	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	2 to 6 @ 1800
	º Crankshaft @ rpm	5.5 to 10 @ 2900
	º Crankshaft @ rpm	7 to 12 @ 3500
Vacuum range check	mbar	133 to 507
Maximum vacuum advance	º Crankshaft	18
Spark plugs		Unipart/Champion
Type		GSP4362 / N9YC
Electrode gap	mm	1.00[4]

Electrical system

		Maestro 1.3 & Van 1983 to 1989
Battery	V / CC / RC	12 / 280 / 50, 12 / 360 / 60
Alternator voltage / full load current / engine rpm		14.0 / 55, 65 / 3000
Starter motor current / voltage - cranking	A / V	65 / 12
- locked	A / V	360 / 7.0

Running gear

		Maestro 1.3 & Van 1983 to 1989
Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	1.5
Tyres		
Saloon	Size	145x13: 155x13: 165x13
Estate / Van	Size	165x13: 175/82x14
Pressure - front / rear - Saloon	bar	145: 2.1 / 2.2[5]
- Estate / Van	bar	2.0 / 2.3[6]
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[0±8']
Camber		A: -15'±21'. B: 30'±21'[7]
Castor		+37'±30'. Van: 12'±30'
King pin inclination		A: +12°30'±30'.B:+12°33'±30'[8]
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[+30' to 1°]
Camber		-0.5°±0.5°

Torque wrench settings

		Maestro 1.3 & Van 1983 to 1989
Cylinder head - stage 1	Nm	38
- stage 2	Nm	80
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	40
Main bearings	Nm	85
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	75
Front hubs	Nm	203
Rear hubs	Nm	68. Van: 50
Wheel nuts / bolts	Nm	72. Van: 80
Spark plugs	Nm	25

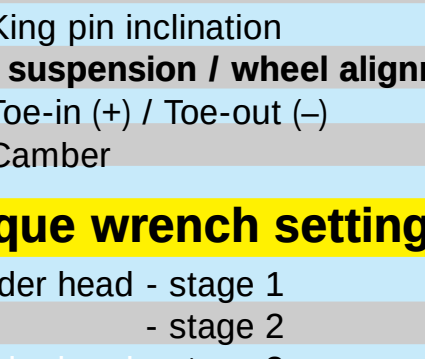
Capacities

		Maestro 1.3 & Van 1983 to 1989
Engine oil & filter	litres	2.8
Gearbox - 4-speed [5-speed]	litres	1.5 [2.0]
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.6
Fuel tank	litres	50. Van: 54

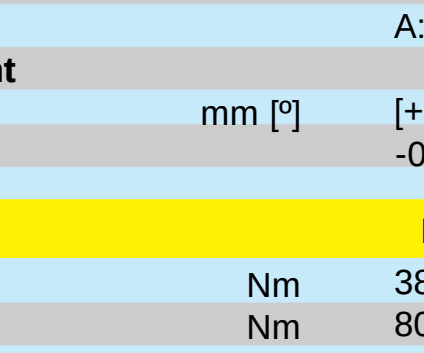
Notes and Illustrations

[1]**12HC32/36/47/34/35/12HE16. Van: 12HC34**
[2]**87 ▶: 0.33**
[3]**Automatic mixture control [manual mixture control]**
[4]**87 ▶: 0.85**
[5]**155 & 165: 1.8 / 1.9. 87 ▶: 155: 1.8 / 2.0. 165: 2.0 / 2.**
[6]**87 ▶: 500: 1.8 / 2.8. 700: 1.8 / 3.2**
[7]**A=early, B=later models. Van A: 0±21'. B: +45'±21'**
[8]**A=early, B=later models. Van A: +12°50'±30'.B:+12°16'±30'**

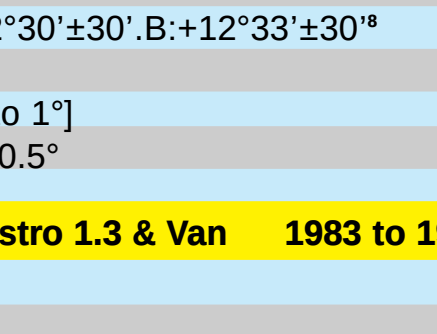
1: Idle speed 2: CO / Mixture



1275 cm³



1275 cm³



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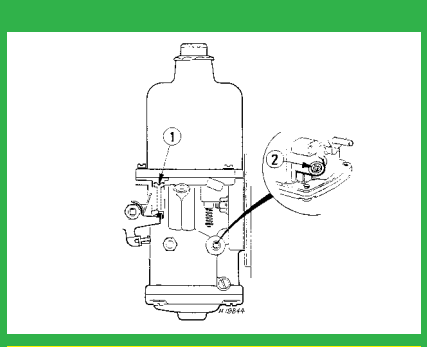

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