

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling systemMaestro 1.3 & Van & CAT1988 to 1995

Type		12HE76, 77, 78, 94 ¹ OHV 4
Capacity (cm ³) / number of cylinders		1275 / 4
Compression ratio / pressure	bar	9.4 / _
Oil pressure	bar	1.0 [4.1]
Oil temperature	°C	_
Valve clearance - inlet	mm	0.33 to 0.38
Valve clearance - exhaust	mm	0.33 to 0.38
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.04

Fuel systemMaestro 1.3 & Van & CAT1988 to 1995

Idle speed - manual [auto]	rpm	750±50. CAT: 750+100-50
Fast idle speed - manual [auto]	rpm	1200±50
CO @ idle speed [3000 rpm] - see page VI	%	2.5±1.0. CAT: 1.0 to 2.0
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		HIF44 FZX1529
Main jet / needle		0.100 / BGW
Injection pressure	bar	_
Pump pressure	bar	0.3
Octane rating	RON	95[E 95 RON] ²

Ignition systemMaestro 1.3 & Van & CAT1988 to 1995

Type		Electronic
Ignition coil		Unipart GCL 142, 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	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	14±1 BTDC @ 1500
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	2 to 6 @ 1800
	° Crankshaft @ rpm	6 to 10 @ 2900
	° Crankshaft @ rpm	16 to 20 @ 4000
Vacuum range check	mbar	101 to 372
Maximum vacuum advance	° Crankshaft	20
Spark plugs		Unipart/Champion
Type		GSP4362, 3372 / N9YC
Electrode gap	mm	0.85

Electrical systemMaestro 1.3 & Van & CAT1988 to 1995

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 gearMaestro 1.3 & Van & CAT1988 to 1995

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 ³
- Estate / Van	bar	500: 1.8 / 2.8 ⁴

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[0±8']
Camber		+30'±21'. Van: +45'±21'
Castor		+37'±30'. Van: 12'±30'
King pin inclination		+12°33'±30'. Van: +12°16'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+30' to 1°]
Camber		-0.5°±0.5°

Torque wrench settingsMaestro 1.3 & Van & CAT1988 to 1995

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

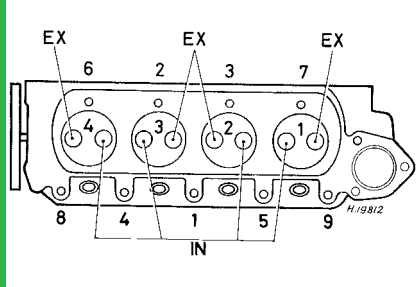
CapacitiesMaestro 1.3 & Van & CAT1988 to 1995

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

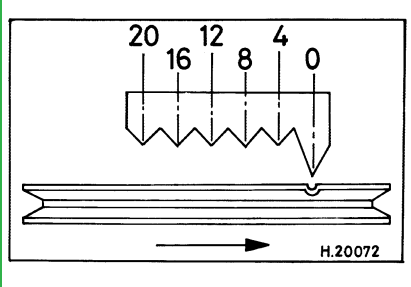
Notes and Illustrations

- ¹CAT: 12HF44, 45
- ²CAT: 95 [U]
- ³155x13: 1.8 / 2.0. 165x13: 2.0 / 2.0
- ⁴700: 1.8 / 3.2

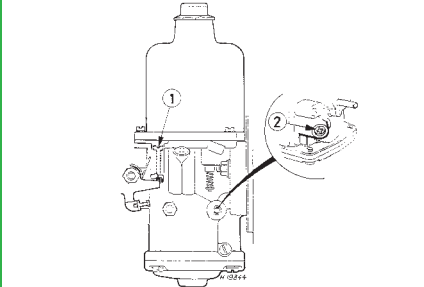
1: Idle speed 2: CO / Mixture



1275 cm³



1275 cm³



SU HIF