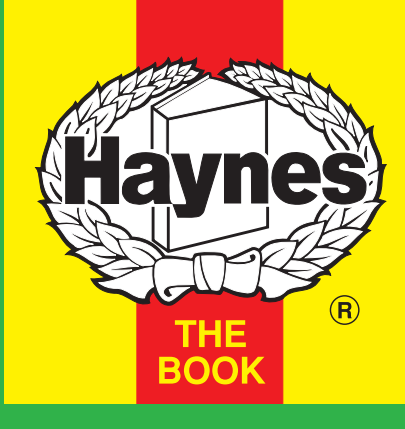


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive
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DATA
BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU	HELP
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Engine and cooling systemMetro 1.3 LC van1985 to 1992

Type		12HA / HB / HC / HD / HE ¹
Capacity (cm ³) / number of cylinders		1275 / 4
Compression ratio / pressure	bar	8.0 / _
Oil pressure	bar	1.0 [4.1]
Oil temperature	°C	_
Valve clearance - inlet	mm	0.30 to 0.35 ²
Valve clearance - exhaust	mm	0.30 to 0.35 ²
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.04

Fuel systemMetro 1.3 LC van1985 to 1992

Idle speed - manual [auto]	rpm	650±50 (86 ►: 880±50)
Fast idle speed - manual [auto]	rpm	1050 to 1150
CO @ idle speed [3000 rpm] - see page VI	%	1.5 to 3.5
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		SU
Type / ref		HIF44
Main jet / needle		0.100 / BEJ
Injection pressure	bar	_
Pump pressure	bar	0.4
Octane rating	RON	91[L] ¹

Ignition systemMetro 1.3 LC van1985 to 1992

Type		Contact breaker - CIS
Ignition coil		Ducellier / Bosch / GCL144
Primary resistance	ohms	1.2 to 1.5
Ballast resistor	ohms	1.3 to 1.5
Voltage - Tmnl 15(+) to earth	V	6.0 to 8.0
Distributor		Lucas
Points gap (air gap)	mm	0.38±0.03
Dwell angle	° (%)	49 to 59
Condenser capacity	µF	0.18 to 0.25
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	13±1 BTDC @ 1500
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	16 to 20 @ 2500
	° Crankshaft @ rpm	20 to 24 @ 3800
	° Crankshaft @ rpm	24 to 28 @ 6000
Vacuum range check	mbar	51 to 288
Maximum vacuum advance	° Crankshaft	17 to 22
Spark plugs		Unipart/Champion
Type		GSP4362 / N9YC
Electrode gap	mm	0.90

Electrical systemMetro 1.3 LC van1985 to 1992

Battery	V / CC / RC	12 / _
Alternator voltage / full load current / engine rpm		14.0 / _ / 3000
Starter motor current / voltage - cranking	A / V	65 to 75 / 12 (no load)
- locked	A / V	350 to 380 / _

Running gearMetro 1.3 LC van1985 to 1992

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	_
Estate / Van	Size	160/65x315: 160/60x315
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	2.0 / 2.2

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[0 to -25']
Camber		0±30'
Castor		+2°6'±2°
King pin inclination		+10°38'

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[0±30'.86 ►: +10' to 50']
Camber		-1°±30'

Torque wrench settingsMetro 1.3 LC van1985 to 1992

Cylinder head - stage 1	Nm	38
- stage 2	Nm	75
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	Bolts: 50. Nuts: 45
Main bearings	Nm	85
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	Centre bolt: 152
Front hubs	Nm	2 hole shaft: 271 ³
Rear hubs	Nm	88
Wheel nuts / bolts	Nm	57
Spark plugs	Nm	25

CapacitiesMetro 1.3 LC van1985 to 1992

Engine oil & filter	litres	4.8
Gearbox - 4-speed [5-speed]	litres	With engine
Automatic transmission - refill	litres	_
Final drive	litres	With engine
Cooling system	litres	4.8
Fuel tank	litres	33

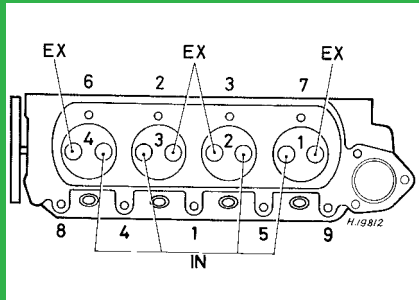
Notes and Illustrations

¹12HC18AA/19AA/12HD19AA/20AA/12HE41/42. 12HE41/42: [E 95 RON]

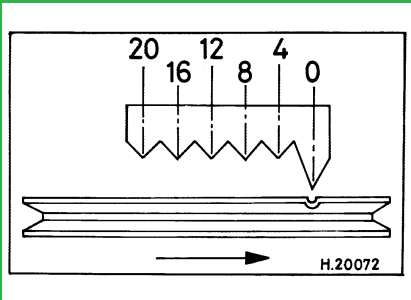
²1986 ►: 0.27 to 0.33

³1 hole shaft: 262

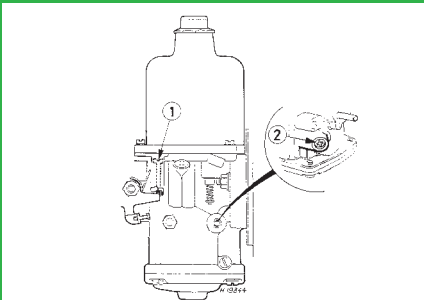
1: Idle speed 2: CO / Mixture



1275 cm³



1275 cm³



SU HIF