

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemMetro 1.3 LC saloon1986 to 1989

Type		12HC17AA 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	0.27 to 0.33
Valve clearance - exhaust	mm	0.27 to 0.33
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 saloon1986 to 1989

Idle speed - manual [auto]	rpm	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]

Ignition systemMetro 1.3 LC saloon1986 to 1989

Type		Electronic
Ignition coil		GCL 143
Primary resistance	ohms	0.78±0.08
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Lucas
Points gap (air gap)	mm	[0.20±0.05]
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	13 BTDC @ 1500
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	14 to 18 @ 2280
	° Crankshaft @ rpm	23 to 27 @ 4840
	° Crankshaft @ rpm	23 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	1.00

Electrical systemMetro 1.3 LC saloon1986 to 1989

Battery	V / CC / RC	12 / _
Alternator voltage / full load current / engine rpm		14.0 / _ / 3000
Starter motor current / voltage - cranking	A / V	75 / 12 (no load)
- locked	A / V	380 / 7

Running gearMetro 1.3 LC saloon1986 to 1989

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

Tyres		
Saloon	Size	160/65 R315
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 1.8
- Estate / Van	bar	_

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 [°]	[+10' to +50']
Camber		-1°±30'

Torque wrench settingsMetro 1.3 LC saloon1986 to 1989

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 ²
Rear hubs	Nm	88
Wheel nuts / bolts	Nm	57
Spark plugs	Nm	25

CapacitiesMetro 1.3 LC saloon1986 to 1989

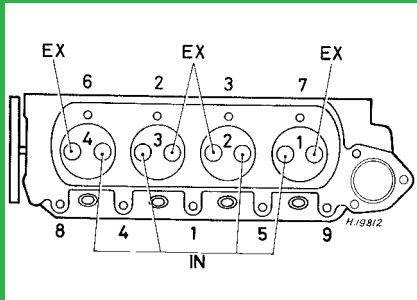
Engine oil & filter	litres	4.8
Gearbox - 4-speed [5-speed]	litres	With engine
Automatic transmission - refill	litres	_
Final drive	litres	With engine
Cooling system	litres	4.8
Fuel tank	litres	33

Notes and Illustrations

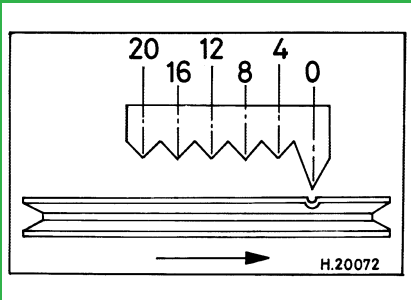
¹From 1987 MY: 12HD18AA

²1 hole shaft: 262

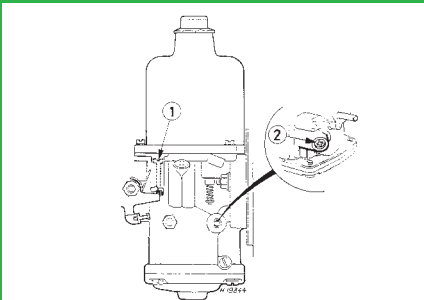
1: Idle speed 2: CO / Mixture



1275 cm³



1275 cm³



SU HIF