Automotive Technical 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

Engine and cooling system — Metro / 111 1.1 & CAT — 1990 to 1993

Type		K8 SOHC
Capacity (cm³) / number of cylinders		1119 / 4
Compression ratio / pressure	bar	9.75 / _
Oil pressure	bar	1.0
Oil temperature	ºC	_
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	ºC	76 to 80
Radiator cap pressure	bar	0.9 to 1.0

Fuel system — Metro / 111 1.1 & CAT — 1990 to 1993

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	1200
CO @ idle speed [3000 rpm] - see page VI	%	2.0 to 3.0
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		Hobourn-SU
Type / ref		KIF38 MAC 10003 or 10043
Main jet / needle		0.090 / AEH. 10043: / AEK[1]
Injection pressure	bar	_
Pump pressure	bar	0.4
Octane rating	RON	97[E 95 RON][2]

Ignition system — Metro / 111 1.1 & CAT — 1990 to 1993

Type		Electronic
Ignition coil		AUU1326 / ADU8779
Primary resistance	ohms	0.71 to 0.81
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Lucas
Points gap (air gap)	mm	_
Dwell angle	º (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	º Crankshaft @ rpm	8±1 BTDC @ 1500[3]
V = Vacuum NV = No Vacuum		NV
Total ignition advance	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	6 to 10 @ 2000
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Vacuum range check	mbar	107 to 360
Maximum vacuum advance	º Crankshaft	14
Spark plugs		Unipart/Champion
Type		GSP6662 / RC9YCC
Electrode gap	mm	0.85

Electrical system — Metro / 111 1.1 & CAT — 1990 to 1993

Battery	V / CC / RC	12 / 280 / 50 or 360 / 60
Alternator voltage / full load current / engine rpm		14.0 / 65 / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear — Metro / 111 1.1 & CAT — 1990 to 1993

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	2.0
Tyres		
Saloon	Size	155/65x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[0 to -25']
Camber		+18'±37'
Castor		+23'±55'
King pin inclination		+10°52'
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[+10' to 50']
Camber		-1°±30'

Torque wrench settings — Metro / 111 1.1 & CAT — 1990 to 1993

Cylinder head - stage 1	Nm	20
- stage 2	Nm	+ 180°
Cylinder head - stage 3	Nm	+ 180°
- stage 4	Nm	_
Big-end bearings	Nm	20 + 45°
Main bearings	Nm	WSM
Clutch cover	Nm	18
Flywheel [driveplate]	Nm	85 N
Front hubs	Nm	210
Rear hubs	Nm	90
Wheel nuts / bolts	Nm	60 to 75
Spark plugs	Nm	25

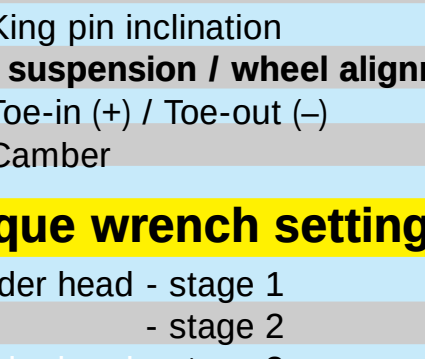
Capacities — Metro / 111 1.1 & CAT — 1990 to 1993

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	4.5
Fuel tank	litres	33

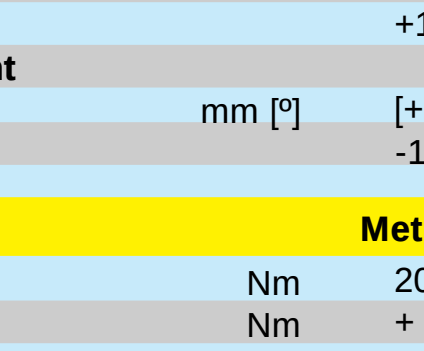
Notes and Illustrations

[1]**CAT: 0.100 / AEJ**
[2]**CAT: [U]**
[3]**With carb no. MAC10003. No. MAC10043: 10±1 BTDC @ 1500**

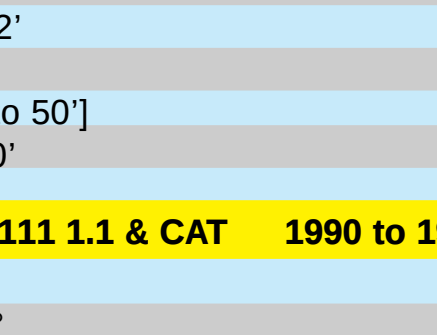
1: Idle speed 2: CO / Mixture



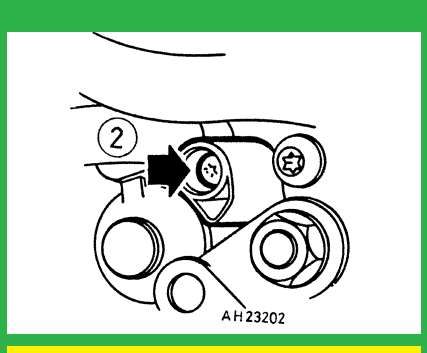
1119 cm³



1119 cm³



Holbourn-SU KIF



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