

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

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HELP

### Engine and cooling system Metro Sport, MG, & VDP 1986 to 1989

Type		12HC14AA & 12HC15AA <sup>1</sup>
Capacity (cm <sup>3</sup> ) / number of cylinders		1275 / 4
Compression ratio / pressure	bar	10.5 / _
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 system Metro Sport, MG, & VDP 1986 to 1989

Idle speed - manual [auto]	rpm	880±50
Fast idle speed - manual [auto]	rpm	(AA): 1050±50 (15): 1150±50
CO @ idle speed [3000 rpm] - see page VI	%	(AA): 1.5 to 3.5 (15): 1 to 3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		SU
Type / ref		HIF44
Main jet / needle		0.100 / (AA): BDL (15): BFY
Injection pressure	bar	_
Pump pressure	bar	0.4
Octane rating	RON	97[L]

### Ignition system Metro Sport, MG, & VDP 1986 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	(AA): 10, (15): 5 BTDC @ 1500
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	(AA): 10 to 14 @ 1520 <sup>2</sup>
	° Crankshaft @ rpm	(AA): 20 to 24 @ 4840 <sup>2</sup>
	° Crankshaft @ rpm	(AA): 21.5 to 25.9 @ 6000 <sup>2</sup>
Vacuum range check	mbar	180 to 407
Maximum vacuum advance	° Crankshaft	16 to 20
Spark plugs		Unipart/Champion
Type		GSP4362 / N9YC
Electrode gap	mm	1.00

### Electrical system Metro Sport, MG, & VDP 1986 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 gear Metro Sport, MG, & VDP 1986 to 1989

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	1.5

<b>Tyres</b>		
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 settings Metro Sport, MG, & VDP 1986 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 <sup>3</sup>
Rear hubs	Nm	88
Wheel nuts / bolts	Nm	57. Alloys: 49
Spark plugs	Nm	25

### Capacities Metro Sport, MG, & VDP 1986 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

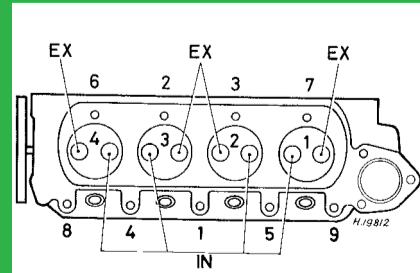
### Notes and Illustrations

<sup>1</sup>87 ▶: 12HD17AA, 24AA or 25. NOTE: Throughout data, engines 12HC14AA, 12HD17AA & 24AA are referred to as (AA), and engines 12HC15AA & 12HD25 as (15)

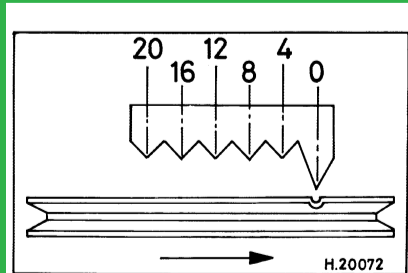
<sup>2</sup>(15): 2 to 6 @ 2000, 16 to 20 @ 5500, 17.5 to 22 @ 6500

<sup>3</sup>1 hole shaft: 262

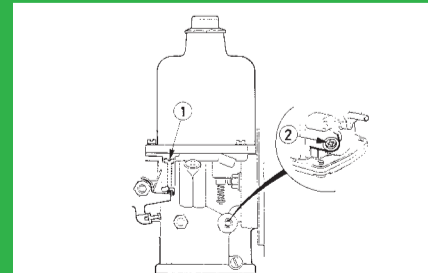
1: Idle speed 2: CO / Mixture



1275 cm<sup>3</sup>



1275 cm<sup>3</sup>



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