

Engine & Cooling

Fuel

Ignition

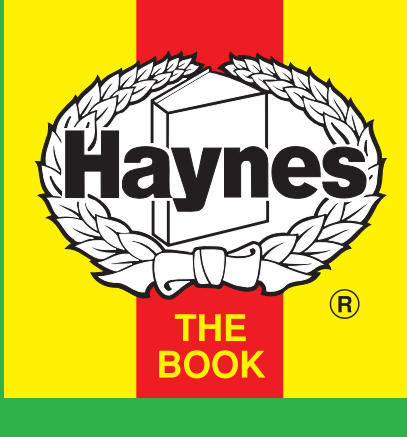
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling systemMini 1.3 CAT1992 to 1994

Type		12A2B G03 [AT: 12A2B G05] 37kW
Capacity (cm³) / 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	0.27 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	85
Radiator cap pressure	bar	1.05

Fuel systemMini 1.3 CAT1992 to 1994

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	1300 [1400]
CO @ idle speed [3000 rpm] - see page VI	%	0.3 to 1.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		SU
Type / ref		HIF38 MAC 10031 [MAC 10032]
Main jet / needle		0.090, AEM
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemMini 1.3 CAT1992 to 1994

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	[0.20±0.05]
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5±1 BTDC @ 1500
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	4 to 6 @ 1870
	° Crankshaft @ rpm	7 to 9.5 @ 2840
	° Crankshaft @ rpm	15 to 17 @ 6250
Vacuum range check	mbar	100 to 407
Maximum vacuum advance	° Crankshaft	24
Spark plugs		Unipart
Type		GSP4462
Electrode gap	mm	0.85±0.05

Electrical systemMini 1.3 CAT1992 to 1994

Battery	V / CC / RC	12 / 30,40Ah
Alternator voltage / full load current / engine rpm		13.6 to 14.4 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	380 / 7.0±0.1

Running gearMini 1.3 CAT1992 to 1994

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

Tyres		
Saloon	Size	145/70x12
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	_

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-1.6
Camber		+2°±1°
Castor		+3°±1°
King pin inclination		_

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+3.2
Camber		+1°+1°30'-30'

Torque wrench settingsMini 1.3 CAT1992 to 1994

Cylinder head - stage 1	Nm	34
- stage 2	Nm	68
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	45
Main bearings	Nm	85
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	152
Front hubs	Nm	260
Rear hubs	Nm	81
Wheel nuts / bolts	Nm	57
Spark plugs	Nm	25

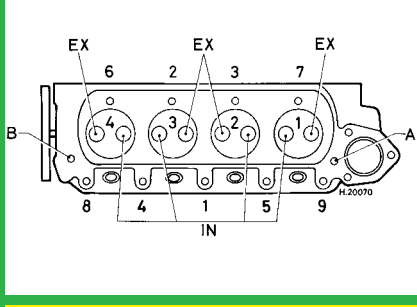
CapacitiesMini 1.3 CAT1992 to 1994

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	34

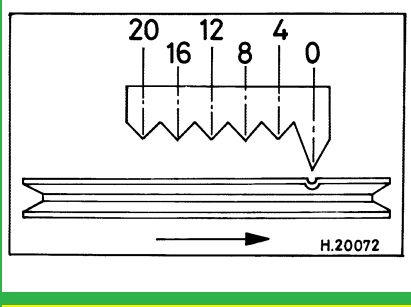
Notes and Illustrations



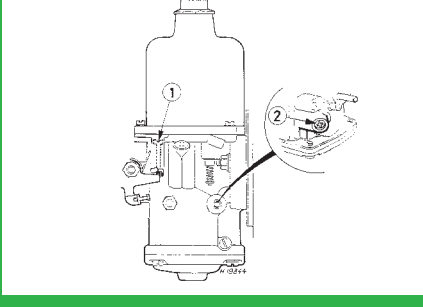
1: Idle speed 2: CO / Mixture



1275 cm³



1275 cm³



SU HIF 38