

Engine & Cooling

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemMini 10001983 to 1989

Type		99H OHV
Capacity (cm ³) / number of cylinders		998 / 4
Compression ratio / pressure	bar	10.3 / $\bar{}$
Oil pressure	bar	1.0 [4.1]
Oil temperature	°C	$\bar{}$
Valve clearance - inlet	mm	0.30 to 0.35
Valve clearance - exhaust	mm	0.30 to 0.35
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.04

Fuel systemMini 10001983 to 1989

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	1100±50
CO @ idle speed [3000 rpm] - see page VI	%	2.5±1.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	$\bar{}$
O ₂ @ idle speed [3000 rpm] - see page VI	%	$\bar{}$
Carburettor / fuel injection		SU
Type / ref		HS4 / FZX 1415
Main jet / needle		0.090 / AAC
Injection pressure	bar	$\bar{}$
Pump pressure	bar	$\bar{}$
Octane rating	RON	97[L]

Ignition systemMini 10001983 to 1989

Type		Contact breaker - CIS
Ignition coil		Unipart GCL 144
Primary resistance	ohms	1.4±0.1
Ballast resistor	ohms	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	° (%)	54±5
Condenser capacity	µF	0.18 to 0.25
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	8+0-2 BTDC @ 1500
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	$\bar{}$
	° Crankshaft @ rpm	$\bar{}$
	° Crankshaft @ rpm	$\bar{}$
Centrifugal check.	° Crankshaft @ rpm	4 to 8 @ 1000
	° Crankshaft @ rpm	20 to 24 @ 4800
	° Crankshaft @ rpm	22 to 26 @ 6000
Vacuum range check	mbar	68 to 271
Maximum vacuum advance	° Crankshaft	16
Spark plugs		Unipart/Champion
Type		GSP 4382 / N12YC
Electrode gap	mm	0.65

Electrical systemMini 10001983 to 1989

Battery	V / CC / RC	12 / 30,40Ah
Alternator voltage / full load current / engine rpm		13.6 to 14.4 / $\bar{}$ / 3000
Starter motor current / voltage - cranking	A / V	50 / 12
- locked	A / V	360 / 7.0

Running gearMini 10001983 to 1989

Brakes -		
Front (min. friction material thickness)	mm	Drums: 1.6 ¹
Rear (min. friction material thickness)	mm	1.6: 84 ►: 3.0

Tyres		
Saloon	Size	145x10: 145/70x12
Estate / Van	Size	145x10
Pressure - front / rear - Saloon	bar	1.9 / 1.8 ²
- Estate / Van	bar	1.9 / 1.8

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-1.6
Camber		+2°±1°
Castor		+3°±1°
King pin inclination		$\bar{}$

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+3.2
Camber		+1°+1°30' -30'

Torque wrench settingsMini 10001983 to 1989

Cylinder head - stage 1	Nm	34
- stage 2	Nm	68
Cylinder head - stage 3	Nm	$\bar{}$
- stage 4	Nm	$\bar{}$
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	81. 84 ►: ³
Rear hubs	Nm	81
Wheel nuts / bolts	Nm	61. Alloys: 50
Spark plugs	Nm	25

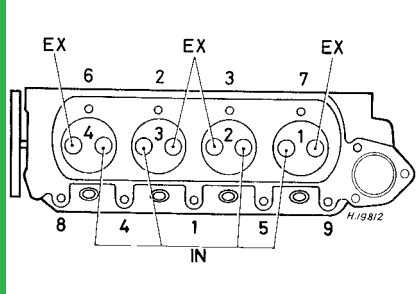
CapacitiesMini 10001983 to 1989

Engine oil & filter	litres	4.8 [AT: 5.0]
Gearbox - 4-speed [5-speed]	litres	With engine
Automatic transmission - refill	litres	With engine
Final drive	litres	With engine
Cooling system	litres	3.6
Fuel tank	litres	25 ⁴

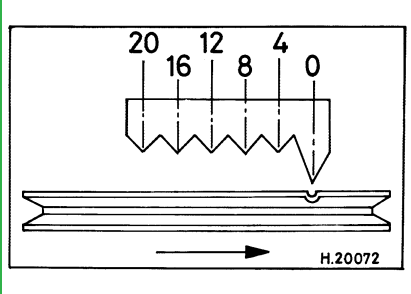
Notes and Illustrations

- ¹**Discs: 3.0**
- ²**145/70x12: 1.9 / 1.9**
- ³**2 hole shaft: 203. 1 hole shaft: 262**
- ⁴**VIN 701402 ►: 34. Van, Pick-up, Estate: 27**

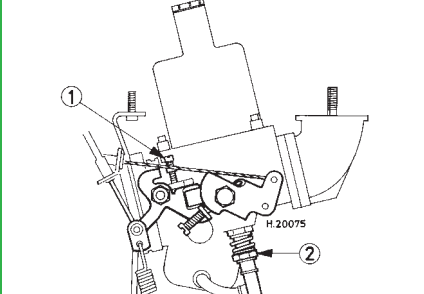
1: Idle speed 2: CO / Mixture



998 cm³



998 cm³



SU HS4