

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemMini 1.3i1996 to 1997

Type		12A2EK71 (AT: K72)
Capacity (cm ³) / number of cylinders		1275 / 4
Compression ratio / pressure	bar	10.1 (AT: 9.4) /
Oil pressure	bar	0.5 (2.0)
Oil temperature	°C	80
Valve clearance - inlet	mm	0.27 to 0.33
Valve clearance - exhaust	mm	0.27 to 0.33
Firing order		1-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	88±2
Radiator cap pressure	bar	0.5

Fuel systemMini 1.3i1996 to 1997

Idle speed - manual [auto]	rpm	900±50 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.4
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		—Rover
Type / ref		MEMS SPI
Main jet / needle		—
Injection pressure	bar	1.0±0.2
Pump pressure	bar	2.7
Octane rating	RON	95[U]

Ignition systemMini 1.3i1996 to 1997

Type		DIS
Ignition coil		NEC 1000710
Primary resistance	ohms	0.41 to 0.61
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	15° BTDC @ 900±50
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK
Type		BPR6E
Electrode gap	mm	0.80 to 0.90

Electrical systemMini 1.3i1996 to 1997

Battery	V / CC / RC	—
Alternator voltage / full load current / engine rpm		/ 65
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearMini 1.3i1996 to 1997

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

Tyres		
Saloon	Size	145/70x12: 175/50x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 2.0. 175/50: 2.0 / 1.8
- 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 1.3i1996 to 1997

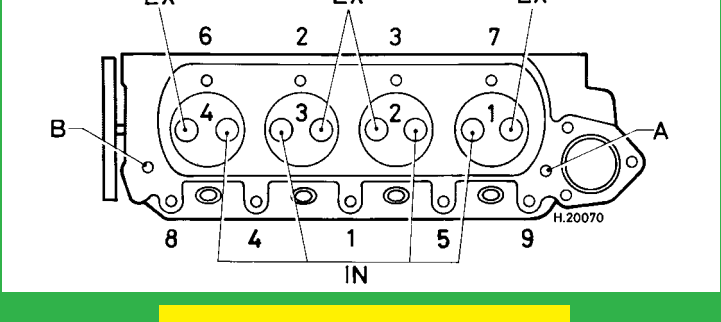
Cylinder head - stage 1	Nm	34
- stage 2	Nm	68
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	45
Main bearings	Nm	85
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	150
Front hubs	Nm	260
Rear hubs	Nm	80
Wheel nuts / bolts	Nm	60
Spark plugs	Nm	25

CapacitiesMini 1.3i1996 to 1997

Engine oil & filter	litres	4.8
Gearbox - 4-speed [5-speed]	litres	With engine
Automatic transmission - refill	litres	With engine
Final drive	litres	With engine
Cooling system	litres	4.0
Fuel tank	litres	34

Notes and Illustrations

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1275cm³