

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



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 systemMini 1.3 MPi1996 to 1997

Type		12A2LK70 OHV
Capacity (cm ³) / number of cylinders		1275 / 4
Compression ratio / pressure	bar	10.0 /
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		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	88±2
Radiator cap pressure	bar	0.5

Fuel systemMini 1.3 MPi1996 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 MPI
Main jet / needle		—
Injection pressure	bar	3.0±0.2
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemMini 1.3 MPi1996 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	12° 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	0.8 to 0.9

Electrical systemMini 1.3 MPi1996 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 1.3 MPi1996 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'

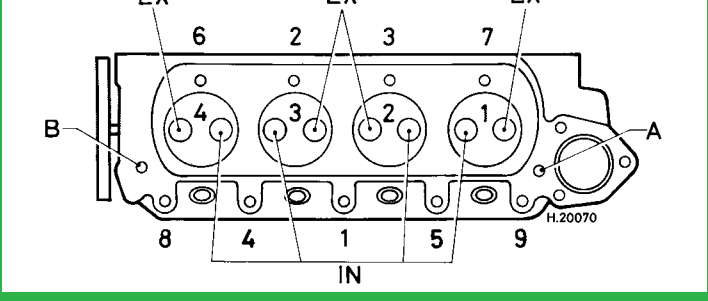
Torque wrench settingsMini 1.3 MPi1996 to 1997

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 1.3 MPi1996 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



1275 cm³