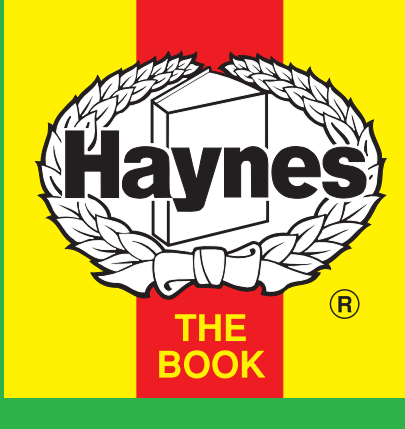


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical
DATA BOOK

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
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Engine and cooling systemMGF 1.8 MPI1995 to 1997

Type		K series DOHC 16V 120PS
Capacity (cm³) / number of cylinders		1796 / 4
Compression ratio / pressure	bar	10.5 /
Oil pressure	bar	1.7 to 3.5 [7.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	85 to 91
Radiator cap pressure	bar	1.03

Fuel systemMGF 1.8 MPI1995 to 1997

Idle speed - manual [auto]	rpm	875±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
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		—Rover
Type / ref		MEMS 1.9 MPI
Main jet / needle		—
Injection pressure	bar	3.0
Pump pressure	bar	3.5
Octane rating	RON	95[U]

Ignition systemMGF 1.8 MPI1995 to 1997

Type		MEMS
Ignition coil		NEC 100630
Primary resistance	ohms	0.63 to 0.77
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10° BTDC @ 875±50
V = Vacuum NV = No Vacuum		V
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		Unipart/Champion
Type		GSP9652 / RC8PYP
Electrode gap	mm	0.90±0.10

Electrical systemMGF 1.8 MPI1995 to 1997

Battery	V / CC / RC	12 / 405 / 70Ah
Alternator voltage / full load current / engine rpm		—
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearMGF 1.8 MPI1995 to 1997

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

Tyres		
Saloon	Size	185/55x15: 205/50x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.8 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[-0°10'±6']
Camber		-0°30'±30'
Castor		5°0'±55'
King pin inclination		11°40'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[0°10'±6']
Camber		-1°0'±30'

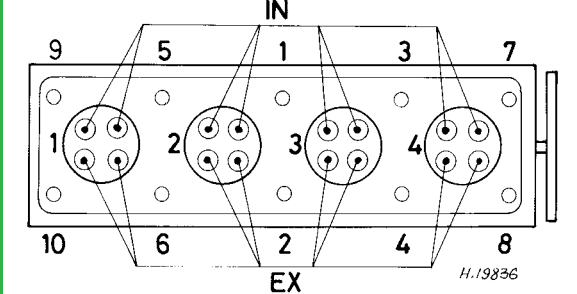
Torque wrench settingsMGF 1.8 MPI1995 to 1997

Cylinder head - stage 1	Nm	20
- stage 2	Nm	+180°
- stage 3	Nm	+180°
- stage 4	Nm	—
Big-end bearings	Nm	20 + 45°
Main bearings	Nm	WSM
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	85
Front hubs	Nm	210
Rear hubs	Nm	210
Wheel nuts / bolts	Nm	70
Spark plugs	Nm	25

CapacitiesMGF 1.8 MPI1995 to 1997

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.2
Automatic transmission - refill	litres	—
Final drive	litres	—
Cooling system	litres	10.5
Fuel tank	litres	50

Notes and Illustrations



1796 cm³