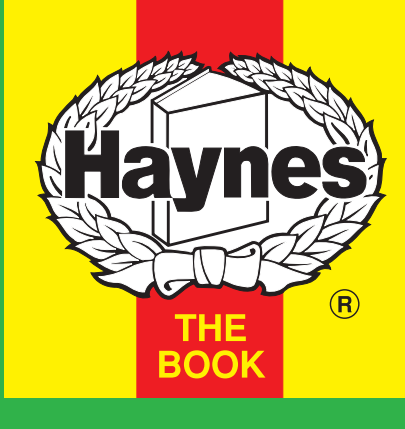


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical
DATA BOOK

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Engine and cooling systemMGF 1.8 VVC1995 to 1997

Type		K series DOHC VVC 16V 145PS
Capacity (cm ³) / 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 VVC1995 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 2J SFI
Main jet / needle		—
Injection pressure	bar	3.0
Pump pressure	bar	3.5
Octane rating	RON	95[U]

Ignition systemMGF 1.8 VVC1995 to 1997

Type		MEMS
Ignition coil		NEC 100690
Primary resistance	ohms	0.40 to 0.61
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 VVC1995 to 1997

Battery	V / CC / RC	12 / 405 / 70Ah
Alternator voltage / full load current / engine rpm		/ 85A
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearMGF 1.8 VVC1995 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'

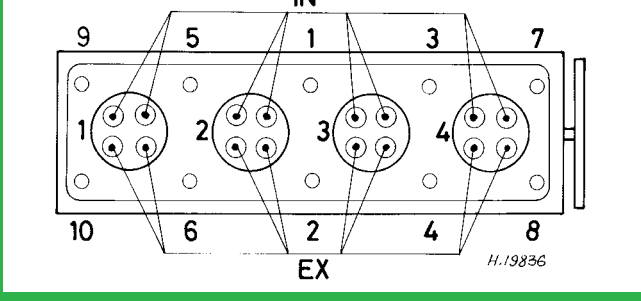
Torque wrench settingsMGF 1.8 VVC1995 to 1997

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 VVC1995 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