

Engine & Cooling

Fuel

Ignition

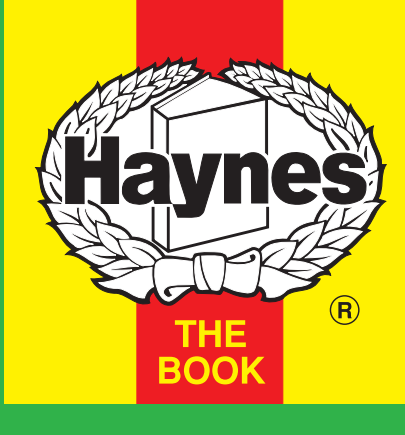
Electrical

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 system

Megane 1.6 (BAOF/L)

1996 to 1997

Type		K7M 702/720 EC96 SOHC 8V
Capacity (cm³) / number of cylinders		1598 / 4
Compression ratio / pressure	bar	9.7 (720: 9.5) /
Oil pressure	bar	1.0 (3.0)
Oil temperature	°C	80
Valve clearance - inlet	mm	0.10 to 0.15
Valve clearance - exhaust	mm	0.25 to 0.30
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	89
Radiator cap pressure	bar	1.6

Fuel system

Megane 1.6 (BAOF/L)

1996 to 1997

Idle speed - manual [auto]	rpm	720±50 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	—
CO2 @ idle speed [3000 rpm] - see page VI	%	≥14.5
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		—Siemens Bendix
Type / ref		Fenix 5 SEFI
Main jet / needle		—
Injection pressure	bar	2.5±0.2
Pump pressure	bar	3.0±0.2
Octane rating	RON	95[U]

Ignition system

Megane 1.6 (BAOF/L)

1996 to 1997

Type		Fenix
Ignition coil		—
Primary resistance	ohms	—
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	N/A
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	—
Maximum vacuum advance	° Crankshaft	—
Spark plugs		Eyquem/Champion
Type		FC52LS / C10YC
Electrode gap	mm	0.9

Electrical system

Megane 1.6 (BAOF/L)

1996 to 1997

Battery	V / CC / RC	—
Alternator voltage / full load current / engine rpm		14.8 / 75, 110
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

Megane 1.6 (BAOF/L)

1996 to 1997

Brakes -		
Front (min. friction material thickness)	mm	6.5 with backing
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	175/70x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.3 / 2.3
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	(-0°10'±10')
Camber		-0°20'±30'
Castor		4°±30'
King pin inclination		13°21'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	(+0°50'±20')
Camber		-1°±15'

Torque wrench settings

Megane 1.6 (BAOF/L)

1996 to 1997

Cylinder head - stage 1	Nm	20 oiled
- stage 2	Nm	+100°±6° wait 3 mins
Cylinder head - stage 3	Nm	Slacken 20 +100°±6° in turn
- stage 4	Nm	—
Big-end bearings	Nm	40 to 45
Main bearings	Nm	60 to 67
Clutch cover	Nm	22.5
Flywheel [driveplate]	Nm	50 to 55
Front hubs	Nm	250
Rear hubs	Nm	175
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	25 to 30

Capacities

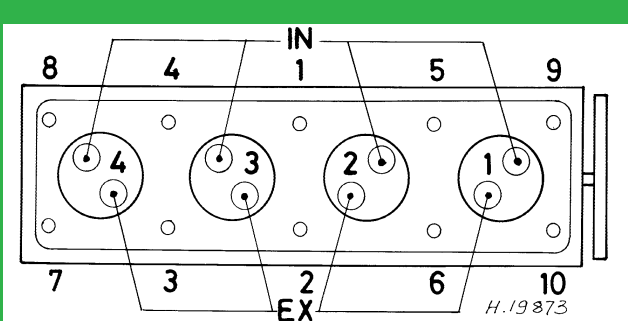
Megane 1.6 (BAOF/L)

1996 to 1997

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	4.0
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	60

Notes and Illustrations

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1598 cm³ 8V