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Automotive Technical DATA BOOK

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Engine and cooling system

Elise 1.8i 16V 1996 to 1997

Type		K16 DOHC 16V 88kW
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.
Valve clearance - 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 system

Elise 1.8i 16V 1996 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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	_
O ₂ @ 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 system

Elise 1.8i 16V 1996 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		_
Ignition timing - basic [static V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm	10° BTDC @ 875±50 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 system

Elise 1.8i 16V 1996 to 1997

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

Running gear

Elise 1.8i 16V 1996 to 1997

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

Tyres

Saloon	Size	185/55x15: 205/50x16
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	_

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	_
Camber		_
Castor		_
King pin inclination		_

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	
Camber		

Torque wrench settings

Elise 1.8i 16V 1996 to 1997

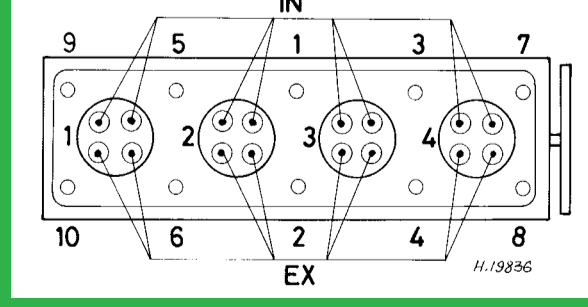
Cylinder head - stage 1	Nm	20
- stage 2	Nm	+180°
Cylinder head - stage 3	Nm	+180°
- stage 4	Nm	_
Big-end bearings	Nm	20 + 45°
Main bearings	Nm	WSM
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	85
Front hubs	Nm	_
Rear hubs	Nm	_
Wheel nuts / bolts	Nm	
Spark plugs	Nm	25

Capacities

Elise 1.8i 16V 1996 to 1997

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	_
Automatic transmission - refill	litres	_
Final drive	litres	_
Cooling system	litres	10.5
Fuel tank	litres	40

Notes and Illustrations



1795 cm³