

Engine & Cooling

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Automotive Technical
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Engine and cooling systemEsprit V81996 to 1997

Type	DOHC 32V 260kW	
Capacity (cm ³) / number of cylinders	3506 / 8	
Compression ratio / pressure	bar	
Oil pressure	bar	
Oil temperature	°C	
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	—	
No 1 cylinder position	—	
Thermostat opening temperature	°C	
Radiator cap pressure	bar	

Fuel systemEsprit V81996 to 1997

Idle speed - manual [auto]	rpm	
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		—
Type / ref		Lotus MPI
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	95[II]

Ignition systemEsprit V81996 to 1997

Type	Computerized		
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	Computer control	
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			
Type		—	
Electrode gap	mm		

Electrical systemEsprit V81996 to 1997

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

Running gearEsprit V81996 to 1997

Brakes -			
Front (min. friction material thickness)	mm	2.0	
Rear (min. friction material thickness)	mm	2.5	

Tyres			
Saloon	Size		
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 settingsEsprit V81996 to 1997

Cylinder head - stage 1	Nm		
- stage 2	Nm		
Cylinder head - stage 3	Nm		
- stage 4	Nm		
Big-end bearings	Nm		
Main bearings	Nm		
Clutch cover	Nm		
Flywheel [driveplate]	Nm		
Front hubs	Nm		
Rear hubs	Nm		
Wheel nuts / bolts	Nm	100	
Spark plugs	Nm		

CapacitiesEsprit V81996 to 1997

Engine oil & filter	litres		
Gearbox - 4-speed [5-speed]	litres		
Automatic transmission - refill	litres	—	
Final drive	litres	WT	
Cooling system	litres		
Fuel tank	litres	73	

Notes and Illustrations

