

Engine & Cooling

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Automotive Technical
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Engine and cooling systemEsprit GT31996 to 1997

Type	910S DOHC 16V Turbo 179kW	
Capacity (cm ³) / number of cylinders	2174 / 4	
Compression ratio / pressure	bar	8.0 / ≥9.5
Oil pressure	bar	0.35 [2.4]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.13 to 0.18
Valve clearance - exhaust	mm	0.25 to 0.31
Firing order	1-3-4-2	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	1.10

Fuel systemEsprit GT31996 to 1997

Idle speed - manual [auto]	rpm	1000
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.3 to 1.2
HC @ idle speed [3000 rpm] - see page VI	ppm	≤300
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	_GM	
Type / ref	MPI	
Main jet / needle	—	
Injection pressure	bar	4.2
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemEsprit GT31996 to 1997

Type	Direct electronic	
Ignition coil	Lucas	
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	6 to 10 BTDC @ 1000
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	NGK	
Type	BPR6EKN	
Electrode gap	mm	0.90 to 1.00

Electrical systemEsprit GT31996 to 1997

Battery	V / CC / RC	—
Alternator voltage / full load current / engine rpm	13.5 to 15.0 / 90 / _	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearEsprit GT31996 to 1997

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

Tyres		
Saloon	Size	215/40x17: 245/45x17
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-1.0±0.5
Camber	-0.7°-0.2°	
Castor	3.2°±.25°	
King pin inclination	9°35'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber	—	

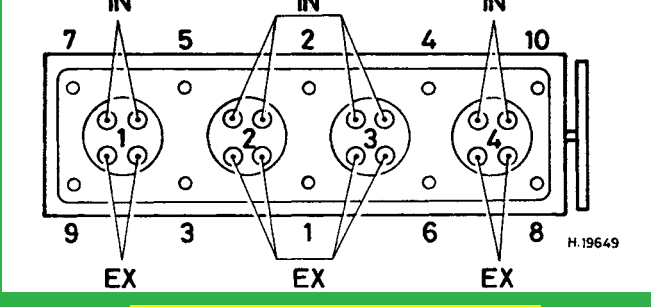
Torque wrench settingsEsprit GT31996 to 1997

Cylinder head - stage 1	Nm	20 ¹
- stage 2	Nm	+75°
Cylinder head - stage 3	Nm	+40°
- stage 4	Nm	Wait 5 mins: +20°
Big-end bearings	Nm	114 to 117
Main bearings	Nm	WSM
Clutch cover	Nm	23 to 26
Flywheel [driveplate]	Nm	75
Front hubs	Nm	47
Rear hubs	Nm	260 to 270
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	33 to 38

CapacitiesEsprit GT31996 to 1997

Engine oil & filter	litres	6.3
Gearbox - 4-speed [5-speed]	litres	3.0
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	12.0
Fuel tank	litres	73

Notes and Illustrations



2174 cm³