



esprit



The Lotus Esprit is Colin Chapman's latest exotic 2 litre, mid-engined, two seat, high performance sports car incorporating many design features proven by a Team that designed and built the racing cars which, to date, have won more Formula One Grands Prix than any other motor vehicle manufacturer and has done so in less time than its principle competitor.

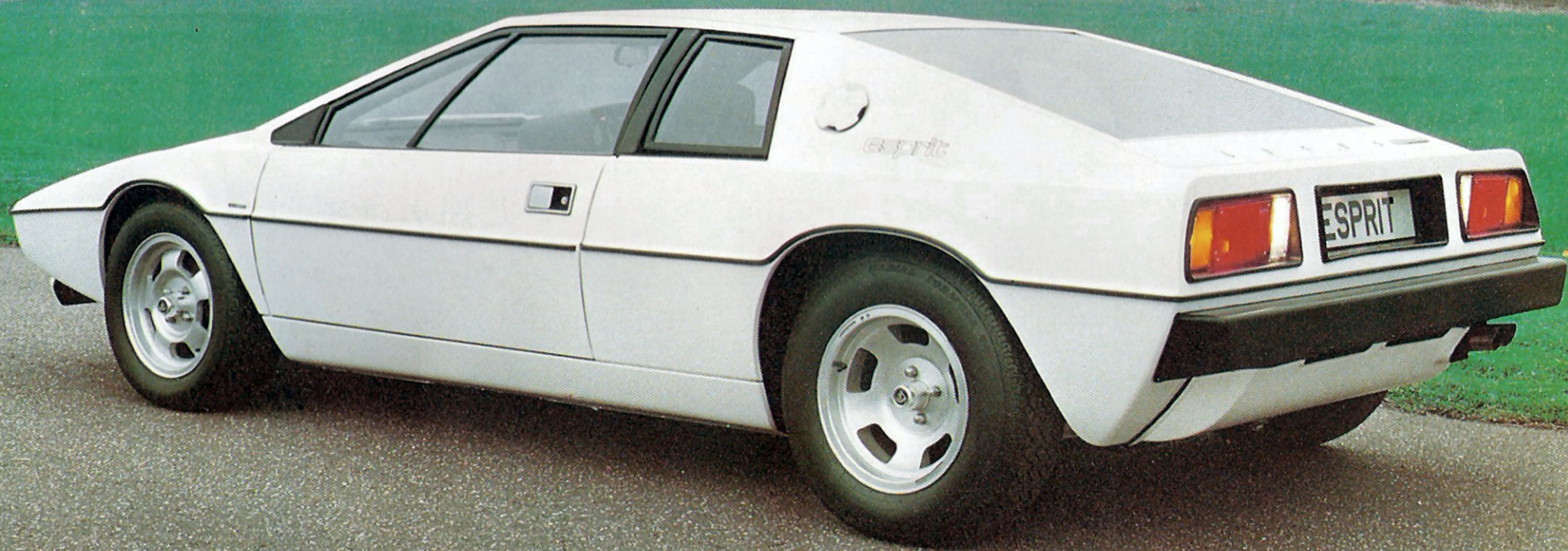
The Esprit design and development programme has included wind tunnel testing at each stage to ensure maximum aerodynamic efficiency and stability. The

Esprit is powered by the highly successful 16 valve 2 litre, Lotus 907 engine which has set new standards of efficiency, power out-put and endurance. The five speed gearbox is designed to match the engine torque and vehicle weight, the installation of which follows current Formula One design practice giving optimum weight distribution. The gear change mechanism is both quick and precise.

The Lotus Esprit, the body and interior of which was styled by Europe's leading stylist, Georgeto Giugiaro, is

manufactured utilising the very latest Glass Fibre Reinforced Plastic (G.F.R.P) technology and incorporates many of the safety features proven in the successful Lotus Elite which, in 1975, was awarded Europe's most coveted safety award, the Don Safety Trophy.

The luxurious interior is upholstered in washable fabric giving maximum comfort, warmth in Winter and coolness in Summer. Fitted head restraints and deep comfortable semi-reclining seats give the driver and





passenger superb comfort and minimum fatigue. Command and information services are grouped within a three panel console, the left hand panel provides lighting control, the central panel provides driving information and the right hand panel houses the environmental controls. The electric window controls are housed in the central tunnel accessible to both the driver and passenger. Twin fuel tanks give the Esprit a total capacity of 15 gallons and a cruising range of approximately 450 miles. A luggage capacity of 7 cu.ft.

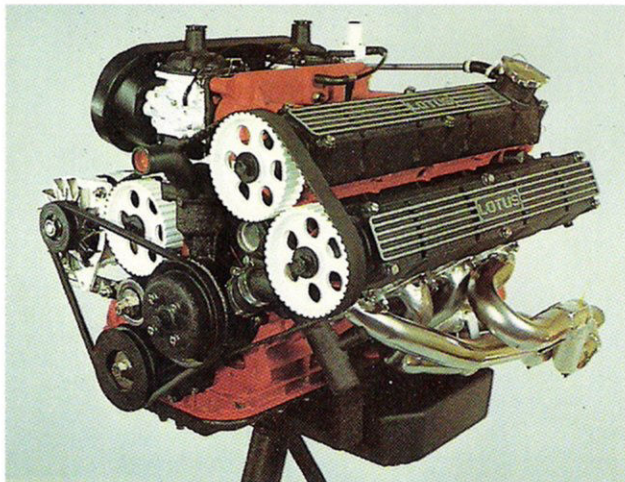
is provided in the front and rear compartments.

Four powerful headlamps are fully retractable for aerodynamic efficiency and can be instantly raised electrically at the touch of a button. The large laminated windscreen permits superb vision and is swept by a Lotus designed pantograph single wiper system to give clear vision in the poorest weather conditions.

The primary safety design ensures that acceleration, handling and braking performance give a totally controllable vehicle under all conditions.

The secondary safety encompasses the structural design of body and chassis to afford the occupants a wide margin of protection in the event of a collision. The phenomenal impact qualities of glass fibre reinforced plastic (G.F.R.P) plus the integral "safety cell" structure within the body shell of the Esprit set new standards of passenger security.

The Esprit, encompassing **STYLE, PERFORMANCE** and **SAFETY** with **ECONOMY**, truly represents **TODAY'S CAR** designed for **TOMORROW**.



GENERAL SPECIFICATION

Engine: 4 cylinder Lotus 907
 Capacity: 1973 cc (120.4 cu.in.)
 Bore /stroke: 95.2/62.9 mm (3.75/2.72 ins)
 Cooling: Water
 Block: Aluminium
 Head: Aluminium
 Valves: D ohc 4 per cylinder
 Valve timings:—
 Inlet opens: 30° btdc
 Inlet closes: 50° abdc
 Ex opens: 50° bbdc
 Ex closes: 30° atdc
 Compression: 9.5:1
 Carburettor: Two Dellorto DHLA 45E
 Bearings: 5 main
 Fuel pump: SU Electrical
 Maximum power: 160 bhp at 6200 rpm
 Maximum torque: 140 lbs. ft. at 4900 rpm

Transmission

Type: 5 speed manual
 Clutch: 8½" diaphragm spring hydraulically operated
 Internal ratios and mph/1000 rpm:
 Fifth .76:1 21.85
 Fourth .97:1 17.15
 Third 1.32:1 12.58
 Second 1.94:1 8.56
 First 2.92:1 5.69
 Final Drive 4.375:1

Body/Chassis

Construction: GFRP body. Steel backbone/spaceframe chassis (undersealed)

Suspension

Independent unequal length wishbones and coil springs. Telescopic shock absorbers. Torsion bar stabiliser.
 Camber: 0° to ½°
 Alignment: 3 to 5 mm toe-in
 Rear: Independent diagonal trailing arm and lateral link with fixed length driveshaft, coil springs, telescopic shock absorbers.
 Camber: 0° to ½°
 Alignment: 8 to 10 mm toe-in

Steering

Type: Rack and pinion
 Castor: 3° to 3½°
 Kingpin: 9°

Brakes

Type: 9.7 ins disc front/10.6 ins rear (rear inboard)
 Circuit: Dual tandem. Split front/rear
 Wheels/Tyres 7J x 14" rear 6J x 14" front
 205/70HR14 195/70HR14
 Pressure 28 lbs rear 18 lbs front

Electrical

Polarity: NEG Earth
 Alternator: Lucas 18 ACR (45 amp)
 Fuses: 4
 Headlights: 4 Lucas 5" sealed Beam 75/60 watts

Performance

Maximum speed	138 mph
Speed in gears	1st 41.5
	2nd 62.5
	3rd 91.8
	4th 125.2
	O/D 138
	(at 6300 rpm)

Acceleration from rest

	Seconds
0-30	2.4
0-40	3.3
0-50	4.9
0-60	6.8
0-70	9.1
0-80	12.0
0-90	16.1
0-100	20.7
Maximum	138
Standing ¼ mile	15 seconds

Fuel Consumption

Overall touring: 33 mpg
 Tank capacity: 15 gallons
 Cruising range: 480 miles

Dimensions

Height: 43½"
 Width: 73½"
 Length: 165"
 Wheelbase: 96"
 Front track: 59½"
 Rear track: 59½"
 Ground clearance: 5½"
 Boot capacity: 7.0 cu.ft.
 Weight (kerb): 1980 lbs.



Lotus

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