



Lotus Elise

4196

Test Date 17.07.96 One of the most exciting cars of the decade, the Elise would change forever how we'd look at small, affordable sports cars. An icon was born

HISTORY

The Elise, we are sure, marks a reference point in the history of the motor car. It encapsulates a blend of handling, performance, ride and refinement that is unique at its price. Like most cars that come out of Hethel, it is brimming with technical innovations. Yet as a finished product it is the compactness and feather-light weight that grab the headlines.

At no time in the past three decades have Colin Chapman's original philosophies been so accurately produced. The mid-engined Elise is one of the most exciting sports cars of the decade.

DESIGN & ENGINEERING

Central to the Elise's elegantly simple design is the adoption of extruded aluminium technology. While all Lotus products for three decades have relied on a fabricated steel backbone chassis, the Elise is supported by a unique extruded and bonded aluminium perimeter structure. As well as helping Lotus meet the 700kg weight target, this improves torsional stiffness and crash worthiness.

Only the engine subframe, suspension



Not only does Elise chassis have fluency and balance, but the ride quality would shame many family cars

nountings, wishbones, anti-roll bar and ollover hoop are steel. Julian Thomson's yling makes the most of the car's squat roportions with a harmonious mix of owing, muscular curves and functional ooling and ventilation ducts.

)N THE ROAD

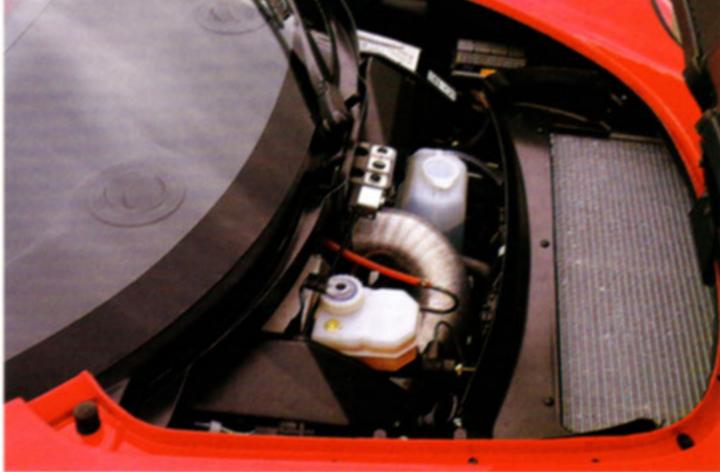
he Elise accelerates vividly, reaching 0mph in 5.5sec and sprinting between 0-70mph in 5.8sec. By 100mph (17.4 sec) ne serious acceleration has started to tail way, although it isn't until 120mph that ne brick wall in its aerodynamics starts to ppear.

Just as well the engine's flexible, too, ecause the cable-operated gearchange s neither as precise nor as clean as we vould have liked. And the Elise's alumnium brakes are slightly disappointing ot because they aren't good (by most tandards they're excellent) but because hey lack the awesome retardation and eel available in cars such as the aterham 7 and Porsche 911.

All this is forgiven, though. Even by the ofty standards that Lotus has set for itself vith such as the Esprit and original Elan, hat chassis of the Elise is exceptional. It hanges the way we all look at and judge he ride and handling of affordable sports ars. Not only does it provide a richer eam of fun and involvement than the itherto unrivalled Caterham 7, it compines this with a ride quality that many amily cars would do well to emulate.

LIVING WITH THE CAR

Getting in and out of the Elise isn't an elegant business, but the driving position is superb despite the fixed wheel. The cabin nas been designed by serious drivers for serious drivers; the economy of movenent required to change gear, steer or pedal is proof of that. As is the lack of bufeting. With the windows down, motorway travel is more than acceptable; with hem up the Elise is as refined and windfree as a BMWZ3.



Not much room under the bonnet, but there is a small boot space



Potential problems with quality

But there are too many irritating quality problems for the Elise to be regarded as an everyday prospect. The hood blew off at speed and tore itself to pieces, the passenger's window started to stop and the driver's window had already developed a rattle.

Overall consumption finally fell to 28.7mpg because of some unusually ferocious and lengthy track work. On the motorway at 80-85mph, the Elise returned between 31 and 33mpg, and even our touring route produced an excellent 36.6mpg. So, even with the tiny 40litre (8.8-gallon) tank, a real world touring range of 300 miles is entirely feasible.



Gets to 60mph in just 5.5sec

VERDICT ★★★★★★★★☆

In several areas the Elise sets new standards of dynamic ability among affordable sports cars; its ride, handling, economy and performance are all of a quality that hasn't been realised collectively by a car of this type previously. Yet the truly groundbreaking aspect of the Elise is that it combines all these vital sports car assets with such refinement that driving it over long distances every day on motorways is a reasonable proposition. The only thing that stands between Elise and its place in history is if Lotus fails to right its niggling detail quality problems.



LOTUS ELISE 1.8

Price £18,950 Price as tested £18,950 How fast?

0-30mph 1.8sec 0-60mph 5.5sec 0-100mph 17.4sec 0-150mph na 0-200mph na 30-70mph 5.8sec 0-400m 14.4sec/93mph

26.6sec/113mph 30-50mph in 3rd/4th 3.7/5.0sec 40-60mph in 4th/5th 4.9/8.3sec

50-70mph in 5th 8.3sec 60-0mph 3.0sec Top speed 124mph **Noise at 70mph** 79dBA

How thirsty?

0-1000m

28.7mpg Test average Test best/worst 36.6/16.9mpg

Govt figures

Combined/urban 39.4/28.9mpg CO₂ emissions

How big? Length 3726mm 1820mm Width 1202mm Height 2800mm Wheelbase Weight 723kg Fuel tank 40 litres

Engine

Layout 4 cyls in line, 1796cc Max power 118bhp at 5500rpm Max torque 122lb ft at 3000rpm Specific output 66bhp per litre Power to weight 163bhp per tonne

Installation

Mid, transverse, rear-wheel-drive Bore/stoke 80.0/89.3mm Compression ratio 10.5:1

Valve gear 4 per cyl, dohc Ignition and fuel MEMS electronic

Gearbox

Type 5-speed manual 1st 3.17/5.6 2nd 1.84/9.7 3rd 1.31/13.6 4th 1.03/17.2

ignition, multi-point fuel injection

5th 0.76/23.3 Final drive 3.94 Suspension

Front Double wishbones, coils over monotube dampers, anti-roll bar

Rear Double wishbones, coils over monotube dampers

Steering

Type Rack and pinion Lock to lock 2.7 turns

Brakes

Front 282mm ventilated discs Rear 282mm ventilated discs

Wheel and tyres

Size 5.5x15in(f), 7.0x16in(r)

Made of Cast alloy

Tyres 185/55 VR15(f), 205/50 VR15(r)

THE AUTOCAR VERDICT

Lotus redefines the roadster and creates a reference point in the history of the car. The only affordable sports car to make the Caterham 7 look second-best



With the windows up, Elise is as refined as a BMW Z3. Styling works well except for clumsy rear spoiler