

HERE really isn't an elegant way to exit this vehicle. That's a big problem, seeing that there are likely to be a lot of people staring at you while you attempt it. Of course, what's drawn their attention is not your up-coming circus act, but rather the presence of a very striking little sportscar.

The Lotus Elise was introduced to the world in 1995, but South Africans have had to bide their time to catch a glimpse of the car on local roads. Thankfully,

Lightweight, uncompromising frame

the wait ended a few months back, when Pearl Automotive was appointed the local distribu-

1952, Lotus has always had one important goal in mind, ie to grow its reputation for producing fine performance and sportscars with exceptional handling characteristics. While highly responsive engines have

formed a large part of the equation, Lotus has earned much of its credentials through its expertise in mating these engines with Founded by Colin Chapman in the lightest possible chassis, as well as developing suspension technology that is so highly respected that many other leading motor manufacturers call for

From the driver's seat of our Elise 111R test car, it's clearly a machine born on the race track. Parts of the "skeleton" of the car lie exposed, in and around the footwells, as the highly rigid chassis is sheathed only in as much skin as is necessary for basic comfort and practicality. The epoxy-bonded aluminium tub chassis was developed by Lotus to provide a lightweight, uncompromising frame on which to base its new-generation sportscars.

low-slung and surprisingly com-

The composite bucket seat is CAR January 2006

fortable, cradling the driver as near to the floor as possible. The sill, over which the clambering in and out of the Elise takes place, lies snugly next to the driver's right elbow, and follows a steady inward curve towards the "box" housing the extruded aluminium pedals. What "real world" refinement there is in this road-ready track car is superbly executed,

the only item we could criticise. Ahead of the small steering wheel are easy-to-read speed-

and there is a quality feel about

the facia. The neatly positioned

feel, but the plastic housing for

appears a little delicate, and is

climate controls have a solid

gearlever and handbrake

the cabin. Alcantara lines most of

ometer and rev counter dials, the latter incorporating small digital read-outs for oil temperature, fuel and distance. Cabin storage space consists of a bare aluminium ridge running below the facia and a cargo net positioned behind the seats. The Elise is a long way from

being a kit car on the inside, and even further removed from being a kit car on the outside. Designed and hand-built at the Lotus factory in Hethel, England, the second generation Elise's shell is an evolution of the original glass-reinforced plastic (GRP) bodywork, with a sharper, and arguably more aggressive, front end. Where the original model featured round headlights, the new car has long, narrow oval units, with two smaller ovals alongside them housing the indicator lights. Two small fog lights are positioned on the apexes of a large centre grille, with two extra deep air intakes on either side. As with the original model, the nose is broken towards the top by two budgie-like breathing

that exit at centre stage.

The smooth side profile can be broken by manually removing the canvas targa roof, but this by no means spoils the car's style. Through the eight-spoke alloy wheels, 16-inch at the front and 17 at the rear, huge 288 mm vented disc brakes are clearly

Larger than on the previous model, the air intake positioned behind the doors house black plastic fins that guide air into the engine bay.

Gratefully breathing in that air is a transversely-mounted Toyota-sourced engine. In the 111R, the "hot" version of the range, this is the same unit that can be found in the current RunX RSi. Of course it's mid-mounted in the Elise, and enjoys not only the benefits of shifting significantly less weight, but also has a new race-oriented brain thanks to a Lotus-tuned engine management system. The four-cylinder, 1,8-litre, VVTL-i engine was chosen not only for its lightweight make-up, but also for its very

Yearning to return to its track roots

holes that form exit-ducts for the front-mounted radiator.

At the rear, another pair of small grilles flank two round Maranello-style rear lights on either side. Noticeable, too, is the huge metal air diffuser protruding from below the rear number plate, ever-so-slightly hiding the twin exhaust pipes

capable power and torque characteristics. Generating 141 kW at

r/min and 181 N.m of torque at 6 800 r/min, and coupled with the matching Toyota C64 sixspeed gearbox, it is a perfect match for the nature of the Elise.

Our test unit, tipping the scales at a mere 925 kilograms (including



Mid-mounted, Toyota sourced, VVTL-i engine provides high-

rev boost for lightweight Elise. CAR January 2006



Interior is neat and very well executed...a blend of "real world" function and race-car form.

Ready for combat

Impressions: Lotus Exige

Remember when Clark Kent ran into those 'phone booths to change into something a bit more appropriate for the battle at hand? His super powers were already there, but perhaps the jacket and tie weren't the most aerodynamic option available. Enter the Lotus Exige. Featuring the same power as the Elise 111R, but fresh from the 'phone booth and ready for combat.

Building on the track success of the first Exige model, Lotus has introduced its latest race-car-for-the-road to the South African market. Power output from the 1,8-litre VVTL-i engine remains the same 141 kW as in the Elise, but Lotus has boosted track performance through continued work on aerodynamics and weight savings. To this end, the Exige does away with the glamorous canvas targa roof and instead features a fixed roof that flows back and over the rear deck. An air scoop on top of the roof guides air into the engine bay.

Just as Mr Kent has his red cape for flying, so the Exige gains an impressive black wing that protrudes from the engine bay cover and has been set at an 11,5-degree angle - seen as the optimal compromise between drag and downforce. Further downforce, and indeed road presence, is provided by the deep front spoiler, which sits just 108 mm off the ground



Already a great-handling car in Elise guise, Lotus has gone the extra mile to ensure that the Exige won't easily be caught on track by working with Yokohama to develop W-rated soft compound semi-slick tyres, supplied standard on purposeful-looking black lightweight cast

The race-ready theme is continued on the inside, too, and new "ProBax" composite seats have been developed to give optimal posture positioning, as well as improved blood flow as the driver heads out for another lap. As in the Elise, the cabin is a combination of raw aluminium, Alcantara and plastic, with forged racing pedals and a small steering wheel. Air-conditioning, weighing in at only 15 kilograms, can be deleted from the spec list for further improved track focus

On track, the Exige package comes alive in a display of hugely impressive grip, sharp steering, and a howling exhaust note as the tacho needle happily spins to the plus side of 6 000 r/min.

At R499 000, the Lotus Exige makes no bones about the fact that it is a car with racing blood running through its veins, but Lotus is proud of the fact that owners of these cars are able to drive them to and from the track too

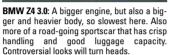
Depending on your needs and budget, there are two touring and two sports options available. Lean towards touring, and options such as airbags and drinkholders are included. Opting for the sports package opens up options that include adjustable suspension, full racing seats, even lighter wheels, and additional track control arms.

Rivals	Ų.	1.00	Our choice
والمتا	Lotus Elise 111R	BMW 24 3,0i	Porsche Boxster
price	R487 000	R470 000	R495 000
cyl/capac	4/1 796	6/2 979	H6/2 687
power	141/7 800	170/5 900	176/6 400
torque	181/6 800	300/3 500	270/4 700
power/ mass	164	121	131
engine revs/km	1 903	na	na
gears/drive	6/F	6/R	5/R
0-100 km/h	5,89	7,5	6,6
max speed	228	250	255
fuel index	10,82	11,2	12,22
boot space	80	208	192

Road and track

Pearl Automotive Group has priced the 111R into a fairly high segment. There are some who will see the Lotus as a fun weekend runabout, and will find the means to have one for just that reason, while there are other options that, although not as track-focused, offer wind in the hair exhilaration with slightly more everyday practicality.







Porsche Royster: Widely regarded as the best all-round open-top sportscar on the market. Classic, rather than in your face, styling. Not far off the straight line pace of the Lotus but not as focused

30 kg of test equipment), but with the all-in mass boosted to more like 1 100 kg with two testers on hoard was able to sprint from rest to 100 km/h in a fraction under six seconds, the magic mark being reached moments before the rev limiter, which intervenes at 8 500 r/ min, asked nicely for third gear. A top speed of 228 km/h is more than should be required by anyone buying this car, but top-end cruising is simply not what the 111R is built

With independent suspension front and rear, featuring unequallength wishbones and gas-filled dampers, this is a car yearning to return to its track roots - or at least a clear section of twisty road. While the springing is set up for maximum rigidity, it still takes sharp bumps in its stride without upsetting the balance. Steering is

pinpoint, and leaves the driver with the simple task of choosing exactly where in the corner to place the car, while the firm chassis never feels as though it's taking any strain whatsoever. In the spirit of the sportscar, no traction control is provided, but a clear head and only a vague grasp of the laws of physics should be able to avert any drama. ABS-modulated brakes capable of bringing the Elise to a stop from 100 km/h in just 2,7 seconds help, too. The clutch has a







Top: Six-speed gearbox has short throws with reassuring "click" as each gear is engaged. Middle: Climate controls have solid, quality feel. Bottom: Rear dominated by Maranello-style lights and huge diffuser.

Likes and dislikes Lotus Elise 111R

DESIGN

- Great sports car looks
- Designed around impressive chassis X Not very easy to get in and out of
- POWERTRAIN Impressive kick past 6 000 r/mir
- Racecar-like gear changes
- Able to cruise in traffic Slightly hard clutch nedal
- COMFORT AND FEATURES
- Very comfortable once you're in Small boot can hold overnight bag Mini skirts not recommended
- X Not much practical interior storage
- PERFORMANCE AND BRAKING Great feel from low seating position
- Lots of throttle response
- Fantastic sound once past 6 000r/min Very impressive brakes
- FUEL ECONOMY Very good considering the fact that enthusiastic driving is encouraged
- RIDE AND HANDLING
- Firm ride handles bumps well
- Pin noint steering VALUE FOR MONEY
- Track car for the road
- Up against some big names
- Not as accessible as in its home market

NOTEBOOK



Interaction satisfaction - MM



A high-performance skateboard – JB

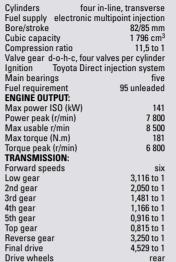
heavier action than expected, but gearshifts are short and precise, with close ratios and a race car-like click assuring you're safely in gear. Keeping the revs in the fun zone above 6 000 r/min not only allows instant throttle response and exceptional corner exit speeds, but provides a thrilling soundtrack to accompany the experience - made better with the roof stowed away in the small boot provided behind the engine bay.

Test summary

If it's driving in the "purist form" that you're after, then Lotus has a vehicle for you. What bells and whistles there are, are well executed and of high quality, and all the performance promises are more than delivered on.

Pricing on the local market places the 111R in some fairly distinguished company, particularly of the Stuttgart variety, but the decision needs to be made whether you are looking for a track day car that is capable enough on open public roads, or whether you want an open road sportscar that you'd only occasionally use on the track.

SPECIFICATIONS



WHEELS AND TYRES:

front 5,5 x 16", rear 7,5 x 17" Tyre make Bridgestone Potenza RE040 Tyre size front 175/55 R16, rear 225/45 R17 Tyre pressures (front) Tyre pressures (rear 200 kPa liquid tyre sealant

BRAKES: 282 mm ventilated disc Front 282 mm ventilated disc Hydraulics ABS STEFRING

rack and ninion Lock to lock 2.8 turns SUSPENSION

independent, unequal length, wishbones, coil springs, gas shock absorbers anti-roll bar independent, unequal length

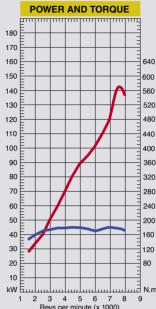
wishbones, coil springs, gas shock ahsorhers

CAPACITIES: Seating Fuel tank 43,5 litres Boot space 80 dm WARRANTY AND SERVICE INTERVALS:

1 year/unlimited mileag Service every 15 000 km

TEST CAR FROM:

Pearl Automotive Group



ENGINE SPEED

Revs per minute (x 1000)

ACCELERATION

0 5 10 15 20 25 30 35 40

200

100

Estimated tank range (*Calculated overall consumption) RRAKING TEST From 100 km/h

2.70 Best stop Worst stor 2,75 Average of 10 stops (Measured in seconds with stops from true speeds at 30-second intervals on a good bitumenised surface.) GEARED SPEEDS (km/h) est

Low gear 107 2nd gear 98* 135* 148 3rd gear 180* 196 4th gear 219* 5th gear 246* 268

75 94

1,0 per cent over

114

4,39 5,89

8,15

25,88

196 9km/h

4.44 5.60

9.2 km/litre

4,40

2,28 2,95 4,17 4,86

238 298 420 495

2,40 3,74 5,03 6,18

10.82 litres/100 km

TEST RESULTS

MAXIMIIM SPEED (km/h)

ACCELERATION (seconds)

Speedometer reading

Calibration

True speed:

1 km sprint

Terminal sneed

0-80

0-100

60-80

80-100

100-120

*Fuel index

Odometer error

True speed 228 at 7 230 r/min top gear

(Average of runs both ways on a level

OVERTAKING ACCELERATION (seconds):

FUEL CONSUMPTION (litres/100 km):

2,29 3,12

2,31 3,25

Top gear (Calculated at engine power peak* – 7 800 r/min and at max, usable r/min - 8 500

INTERIOR NOISE LEVELS (db, A-weighted):

	Mech	Road
Idling	46	-
60	69	-
80	72	74
100	74	7
120	77	79
PERFORMANCE FACTORS:		
Power/mass net (W/kg)		15
1 // 1000 / 1 // 1		04 5

km/h per 1 000 r/min (top) Mass as tested (kg) (Calculated on "mass as tested", gross frontal area, gearing and ISO power out-

TEST CONDITIONS:

partly cloudy, warm, no wind Fuel used 95 unleaded Test car's odomete





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