ReVerie Ltd.
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EXIGE/ELISE S2 ADJUSTABLE 150/230/300mm REAR WING

INTRODUCTION

ReVerie have available a range of high performance wing profiles, these profiles have been designed by Aero dynamists & writer Simon McBeath using CFD. The 230mm profile has also been wind tunnel tested at Mira and correlated well to the CFD results. The 150/230mm profile Wings feature clever internal autoclaved carbon stringers running the length of the wind to add high strength and little weight.

The 150 and 230mm profiles are available in a curved plan view radius to match that of the back of Elise / Exige. This looks right and also allows the boot or tailgate to open normally as well as ensuring the tip of the 150/230mm rear wings does not extend back past the maximum silhouette for GT racing regulations. For customers that require the maximum possible down force from a single element wing then choose the 300mm chord and suffer the boot issues. Dual element wings are available on request but should not be considered for Elise / Exige S2.

Our recommendation for Elise / Exige s2 is the 230mm chord plan view curved wing, in either 1245mm or 1650mm width (depending on your choice of aero modifications at the front). Please see http://www.reverie.ltd.uk/en/data/techdata.php for wind tunnel and cfd data on the profiles.
The Carbon internal boot supports which take the loads down to the chassis longerons and Aluminium wing support posts have been developed to allow adjustment to the wings angle of attack to allow tuning of the aero balance when required.

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Parts available:

R01SB0160	Elise S2 / Exige S2 Motorsport Rear Wing, 230mm Chord, Curved Adjustable Clam Mounted
R01SB0215	Elise S2 / Exige S2 Motorsport Rear Wing, 150mm Chord, Curved Adjustable Clam Mounted
R01SB0269	Elise S2 / Exige S2 Motorsport Rear Wing, 300mm Chord, Straight Adjustable Clam Mounted (may restrict boot access)
R01SU0151	10x5mm, 90°Angle, Curved Rear Gurney Flap, Double-Side Gloss (1800mm Length, 1600mm Radius)
R01SU0152	10x10mm, 90°Angle, Curved Rear Gurney Flap, Double-Side Gloss (1800mm Length, 1600mm Radius)
R01SU0149	10x5mm, 90°Angle, Straight Rear Gurney Flap, Double-Side Gloss (1800mm Length)
R01SU0150	10x10mm, 90°Angle, Straight Rear Gurney Flap, Double-Side Gloss (1800mm Length)

Straight 150 / 230mm wings available special order if required

WARNING, MOTORSPORT OR DRIVING CAN BE DANGEROUS RESULTING IN DEATH OR PERSONAL INJURY.

READ OUR FITTING INSTRUCTIONS CAREFULLY

This article is sold without warranty expressed or implied. No warranty or representation is made as to this product's ability to protect the user from injury or death. The user assumes that risk. The effectiveness, warranty and longevity of this equipment are directly related to the manner in which it is INSTALLED, USED, and/or MAINTAINED. THE USER ASSUMES THE RISK.
Fitment of REVERIE PRODUCTS TO AUTOMOBILES THAT ARE SUBJECT TO A MANUFACTURER'S WARRANTY MAY VOID THE MANUFACTURER'S WARRANTY AND THE VEHICLES ABILITY TO MEET EMISSION OR OTHER TRANSPORT REGULATIONS.
By purchasing this product and opening the packaging, purchasers expressly acknowledge, understand and agree that they take , select and purchase these REVERIE products from REVERIE, its affiliates, distributors, and agents (collectively, REVERIE) "as is" and "with all faults".
The entire risk as to the quality and performance of these REVERIE parts is with the purchasers. Should the goods prove defective following their purchase; the purchasers assume the entire cost for all necessary servicing or repair or any resulting liability. Working on your car can be a dangerous activity. If you are unsure of what you are doing, please leave mechanical or Safety critical work to a skilled mechanic.
We take no responsibility for the incorrect use and / or installation of REVERIE products.
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UV-PROTECTION

Please Note Epoxy Pre-preg products are not UV stable. Texallium products are particularly liable and can yellow in only 2 – 6 weeks. The epoxy resin will 'yellow' with prolonged exposure to UV radiation and material strength properties will slowly deteriorate. We recommend exterior products or those exposed to constant UV are either colour painted or at least Lacquered. We use predominately 2K car lacquers of medium solids, the DBS range has been found very suitable, although people have had equally good results with Urethanes varnishes and epoxy clear coats. The surface should be sanded with 180, 240 then 320 grit and a cleaning solvent used to remove grease or dirt prior to paint application. Several coats may be required (normally 3 to 4 light coats) to avoid pin-holing, common with painting composite products. Pin holes may be dubbed in carefully with a brush, then wet flatted for a final application of 3 thin coats. **Let air dry only**, you may stove the paint at 70'c once fully air dried.

LOTUS DISCLAIMER

Although ReVerie Limited supply parts for use with/on vehicles manufactured by Lotus Cars Limited, ReVerie Limited is in no way connected to Lotus Cars Limited or any other member of the Lotus Group of companies ("Lotus") and is entirely independent of Lotus. Accordingly, none of the products offered for sale or supplied by ReVerie Limited (nor any advice or service offered or provided by ReVerie Limited) are in any way endorsed by Lotus and Lotus has not tested or approved any such products or services. Accordingly, Lotus shall not under any circumstances be liable for any loss, claim, damages or any consequential, indirect or special damages whatsoever arising out of or in connection with the use of products sold or supplied by ReVerie."

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ELISE S2 ADJUSTABLE REAR WING KIT CONTENTS

CLAMSHELL SCALE WING FEET DRILL JIG PAPER PLOT
1 X CARBON REAR WING With End plates & Lower tabs fitted - Choose from:
150mm or 230mm chord profile Plan view curved to allow boot opening (230mm recommended if using with front splitter)
150mm, 230mm or 300mm chord profile Plan view Straight (Cannot open boot!)
Choose your span width 1245 and 1650mm are normally stock items, any span available to special order
Specify optional gurney flap if required for straight or curved profiles
2 X Carbon / 12mm Foam Sandwich internal boot supports LH/RH
2 X Carbon 90' angle internal boot support base brackets
6 X 200mm Strips 3mmX20mm thick self adhesive foam 2 for under alloy clam mounts, 4 for top of carbon internal clam shell Carbon/foam brackets
2 X Black Powder coated CAST ALUMINIUM Boot Mounts Low level recommended, High level versions available if required.
4 X BOLTS M6 X 30mm S/Steel (to fix wing to supports)
8 X M6 X 14 dia Washers S/Steel (to fix wing to supports)
4 X M6 S/Steel lock Nuts (to fix wing to supports)
4X BOLTS M6 X 20mm Black to fix internal boot supports, through clam to alloy mounts
4 X M6 X 20 dia Washers BZP to fix internal boot supports, through clam to alloy mounts
4 X M6 S/Steel lock Nuts (to fix wing to supports), to 90' carbon brackets
4X BOLTS M6 X 30mm S/Steel to fix internal boot supports, to 90' carbon brackets
8 X M6 X 25 dia Washers BZP to fix internal boot supports, to 90' carbon brackets

See http://www.reverie.ltd.uk/en/data/techdata.php for wind tunnel and cfd data on the profiles.

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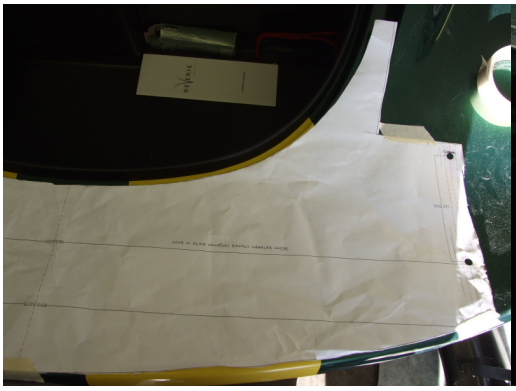
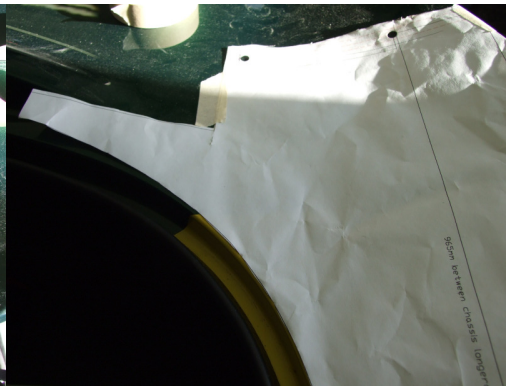
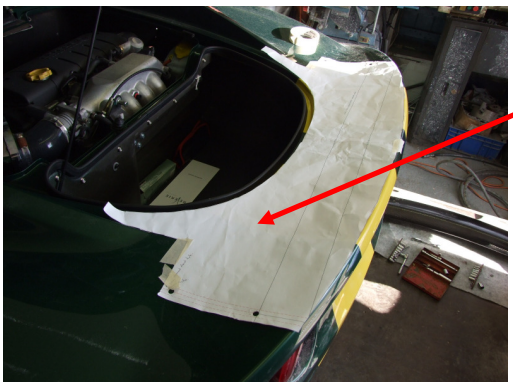
FITTING INSTRUCTIONS

A.







TAPE IN PLACE ON THE REAR CLAM THE PROVIDED DRILLING TEMPLATE

B.

Bolt the Alloy Wing mounts to the wing at a mid angle of attack position. The wing supports outer sides should be approx 909mm apart. Then sit the wing and supports carefully on the boot, Centralise the wing on the boot using the lines on the template as reference to help. Check the boot can open if using the curved wing profile. Check the holes marked are in the right position if not then re-mark them in a new position you are happy with.

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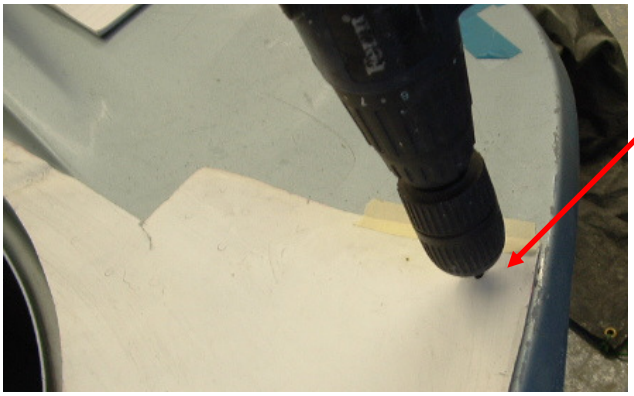
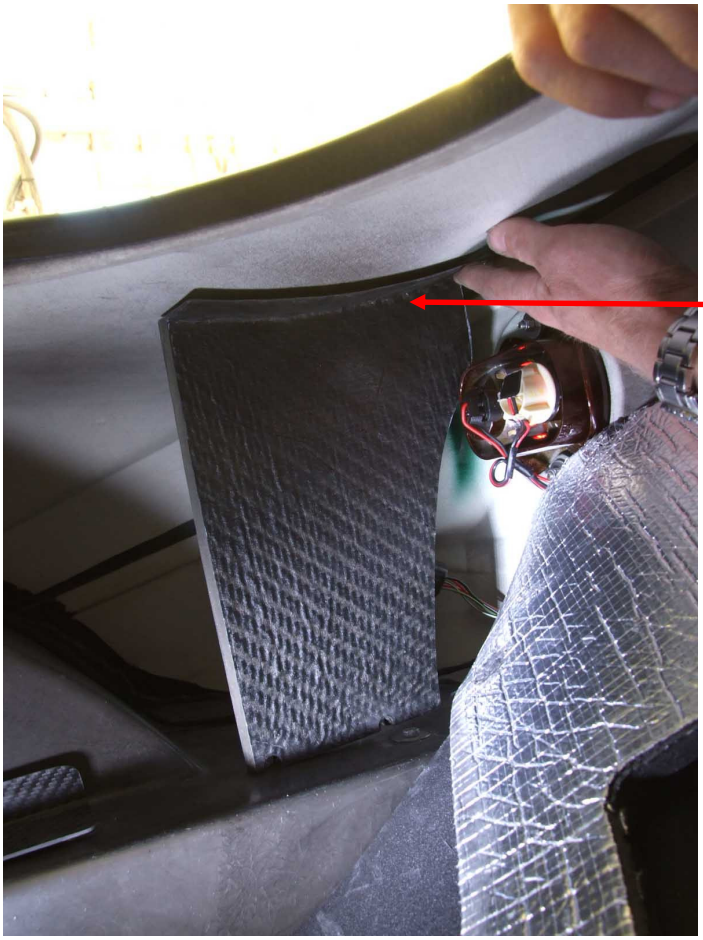
C.



WITH A SMALL DRILL BIT (3-4mm IS IDEAL) PILOT DRILL THE FOUR MOUNTING HOLES INDICATED ON THE TEMPLATE, THEN REMOVE THE TEMPLATE AND DRILL THE HOLES OUT TO 7.5mm.
Remove the paper template

D.



Unbolt the two rear fixings between boot floor and chassis longerons. Lift the boot floor mat out and fit the carbon / foam supports inside the boot. With the top curved 90' return pointing inwards and the vertical edge of support to the front. Make sure the bolt holes you have drilled will be in the middle of the top curved carbon return as you need to drill and bolt through. Check they are vertical with a small set . They should be a tight fit, grind/sand the bottom if required to get them in situ.

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E.

Position the 90’ mount along the bottom inside edge so the slotted holes align with the alloy top hat bushes in the carbon/foam supports. Then mark the hole positions required in the mount to match those in the floor of the boot (elise and exige are different). Next drill 8mm holes in the base. Then bolt the bracket in place to the supports and boot floor/chassis.

F.

Now drill through the 4 clamshell mounting holes info the carbon curved 90’ support of the internal carbon/foam boot strengtheners. Inject some silicone into the top 4 clamshell holes to stop water ingress. Stick some 3mm self adhesive neoprene to the underside of the alloy supports and trim around with a sharp knife. Next bolt the alloy supports in place and refit the wing.

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WITH THE VEHICLE ON A FLAT SURFACE AND THE RIDE HEIGHT EQUAL ALL-ROUND, SET THE WING TO THE ANGLE OF ATTACK YOU REQUIRE. TUNE THIS AT A RACE CIRCUIT OR WIND TUNNEL TO GIVE A NEUTRAL AERO BALANCE

THE WING'S ANGLE OF ATTACK CAN SIMPLY BE ALTERED BY MOVING THE REAR BOLT EACH SIDE INTO A DIFFERENT HOLE IN THE ARRAY OF 9 HOLES.

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