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Exige S2 Race Wheel Arch Fitting Guide

Introduction

In order to facilitate larger wider wheels & tyres to improve grip on either all four corners, or just the rear for circuit use, we have styled and developed these bolt on wheel arch flares. The flares allow 40mm more clearance on all corners (30mm front without sill end modifications for lock clearance) and allow modified arch inner liners to be re-fitted. The front arch fenders also replace the front under clam winglets and vent out high-pressure air from the front wheel wells to improve stability at high speeds.

The flares are available with internal hidden flange & big head fixings, or external flange. The internal set up makes a better finish, but some racers may just prefer to rivet an external flange set on. The hidden internal fix type could also be bonded on and faired and painted with the complete clamshell if a smoother look is required.

Notes: Special wider rear flares with or without rear mesh venting to suit 9.5 or 10" rear wheels can be produced if required (as used by Lotus Sport Cadena GT3 team during late 2006).

30mm front, 40mm rear bolt on billet alloy wheel spacers (as used on reverie development car) are available if you wish to run the standard Exige S2 wheels and just increase track width, however for the more discerning enthusiast, particularly for the tuned Exige or Elise we recommend new wheels and tyres (7.5*16" Et18 and 9 * 17" Et18 should work but as yet are untested by us!!) or longer wishbones if these should become available from a respected tuner.

Keep an eye on our website as we will list known wheel & tyre packages and other suspension components as they become available. For the moment the easiest option is billet machined centre & split rim wheels, where several manufactures can offer this service to suit the Elise / Exige S2 in several styles.

It is very important that you do not increase the rolling diameter over the standard set up, and check your chosen wheel and tyre package with the suspension in full dump (springs removed) and $\frac{1}{2}$ lock $\frac{1}{2}$ bump. Full race cars may use 40mm front spacers but will need to cut back the stock sill ends to clear the tyres on lock.

Parts Available:

Elise S2/Exige S2 Full Wheel Arch Kit (Front & Rear), GRP-Unpainted (With Hidden Internal Flanges)	R01SB0188
Elise S2/Exige S2 Wheel Arch Kit (Front Only), GRP-Unpainted (With Hidden Internal Flanges)	R01SB0153
Elise S2/Exige S2 Wheel Arch Kit (Rear Only), GRP-Unpainted (With Hidden Internal Flanges)	R01SB0186
Elise S2/Exige S2 Full Wheel Arch Kit (Front & Rear), GRP-Unpainted (With External Flanges)	R01SB0189
Elise S2/Exige S2 Wheel Arch Kit (Front Only), GRP-Unpainted (With External Flanges)	R01SB0185
Elise S2/Exige S2 Wheel Arch Kit (Rear Only), GRP-Unpainted (With External Flanges)	R01SB0187
Elise S2/Exige S2 40mm Wheel Spacers 4*100mm PCD (1 Axle Set)	R01SB0025

All fixings are supplied with the arch fenders, but the wheel spacers if required must be ordered separately.



Photo courtesy of Barrie Whight. Lotus Sport Cadena Gt3 Team, with Rear Arch Kit (modified)



S2 Exige with Full Wheel Arch Kit & 30Fr/40Rr mm Wheel Spacers.



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Tools Required

Metric spanner set Metric socket set Drill and drill bits Air hacksaw or 3" carbide cut off wheel in 90' high speed grinder Use suitable dust mask, goggles, gloves and ear defenders with this! Dremel with diamond or tungsten taper point Sandpaper and block of various grits Posi bladed Screwdriver Jack, Axle stands, wheel wrench Access to quality paint and finishing facilities

Parts supplied

For front arch flares internal flange fix type:

- 2 * nylon 8mm 45' tapered one end spacers for rear lower front flare sill fixing point.
- 2* 40mm m5 button head bolt
- 2* m5 20mm diameter washer
- 12* m6 nyloc nut s/steel
- 2* m6 40mm diameter washers
- 12* m6 25mm penny washer
- 2* m5 jack nut inserts (for front of sills)
- 2* m5 20mm button head bolts
- 2* m5 25mm diameter washers

1m length of vertical rubber edge flap seal for arch liner modifications

For rear arch flares internal flange fix type:

- 2* m6 40mm diameter washers
- 12* m6 nyloc nut s/steel
- 2* m5 25mm diameter washer
- 2* 4mm * 20mm rivet
- 2* 3.2mm * 15mm rivet



RX54 HFK	1.	Loosen wheel bolts, Jack up the car carefully as per lotus handbook instructions and support on four axle stands safely, remove the road wheels and the inner wheel arch liners.
	2.	Cut the along the wheel arch line of the paper template. Then position paper templates against relevant wing flare and tape in position. The top edge of the paper runs along the panel top styling line. Then trim the wheel arch away with an air hacksaw or 3" carbide cut off wheel (wear correct PPE).
	3.	New rear arch trim line shown cut from paper template. Then through the template using a Dremel with a tungsten or diamond taper point, grind in the fixing bolt slots.
		 4. Using your Dremel and diamond point cut the side repeater details on the front clam as shown. Then check the arch flares on the front and rear clams, you should be able to hang the arches by inserting the m6 big head studs into the rectangle slotted holes you have made in step 3 using the templates supplied. On the front arches it is very important to move the arch as far rearward as possible so that the vertical face behind the tyre is tight against the sill, otherwise the tyre will fowl on lock at ride height. Check the door gap and sill to fender flare gap at the rear and sand if required. The Arch fender should lock into the alloy chassis sill section underneath also.



M5. Jacknut insert	5.	Drill one hole in the front sills each side as shown to allow the front arch flares to be bolted up tight back against sill to allow front tyre clearance on lock.
	4.	Once you have checked the fitment of the front and rear fender flares and made any adjustments required for good fit to sill & door gaps if you are bolting them on as separate items as shown here, have a good bodyshop paint them. Or if fitting permanently and blending and painting clam and arches, then get the fit sorted out and have a body shop paint the complete arches & clamshells.
	5.	Location of 45' sill to front fender spacer and m5 * 40mm button head bolt, this gets hidden under arch flare when fitted, adjust spacer height to get sill to fender rear lip at correct height. Bolt the arches on and cut any protruding m6 stud away from the back of all nyloc nuts to stop tyre damage.
	6.	Plastic sill to front fender cover plate shown refitted, note the outside tag has been carefully ground off and the outer edge held down with a small blob of pu sikaflex adhesive.



7.	Front fender to door and sill gap shown as it should be, ensure this is correct before painting.
8.	Drill and fit a 4mm dome headed rivet as shown at the front of the rear fenders to sill, then paint body colour with a small brush.
9.	Drill and fit a 3.2mm dome headed rivet as shown at the front of the rear fenders to sill, then paint body colour with a small brush.
10.	Refit the front inner arch liner. The main rear part needs modifying to allow venting out as shown. The plastic insert parts are cut from what you have removed and bonded and riveted with pu sikaflex. Then fit the vertical lip seal as shown to seal against sill and arch flare vent. Refit the main part with the original lotus fixings. The outer edge should tuck just up above the wheel arch studs & nyloc nuts.



11. More shots of inner front fender flare modifications
12. More shots from outside looking in through vent. Aperture ready to accept a bond, hand formed expanded alloy mesh if required to protect sills from stone damage.
13. To fit a grille mesh - With a 3" cut off wheel trim a slot in the arch along the centre line of the air exit radius blend to sill face. This is to allow a piece of grille mesh to be slotted in place and bonded.
14. Form an expanded alloy mesh grille to shape in situ, we use fh351 expanded alloy. It should cover the end by fitting into the air exit radius groove you have just cut and have a triangular profiled section folded over to seal the top to clam. Etch prime & paint satin black.







17. The front headlamp inspection covers need widening by approx 40mm as shown. Cut the profile shown and the plastic hump section out. Then cut some 2.5-3mm black flexible pu plastic strip 60mm wide and rivet it as shown. Seal the cut edge with black pu sikaflex as shown. Then refit this panel to the already fitted main section.
18. Grille mesh painted and pu bonded onto front face of inside fender to sill over the vent
19. Std rear inner arch liner shown re fitted using std fixings, no mods.
20. Fit 30mm wide bolt on wheel spacers to the front and 40mm to the rear or your choice of wider rim and tyre with no larger than stock rolling radius. If fitting spacers bolt them to the same specified torque as the wheel bolts (you may need a colleague to put his foot on the brake to allow this). Race cars may use 40mm on front but require sill end moving back for lock clearance.





You may like to consider a three element reverie 111r rear diffuser to complement your wide fender conversion and further improve grip through improved aerodynamic down force. Also a tailgate mounted or full width adjustable clam mounted rear wing are available and soon a carbon front spoiler. Also to complement the wider look of this conversion and further aid engine cooling we recommend fitment of our wider than stock bolt on carbon side air intake ducts.

WARNING, MOTORSPORT OR DRIVING CAN BE DANGEROUS RESULTING IN DEATH OR PERSONAL INJURY. READ OUR FITTING INSTRUCTIONS CAREFULLY

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