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AB65KE3 Performance Air Box

Fitting Instruction: Lotus Elise (classic) S1

KIT CONTENTS

<u>Qty</u>		<u>Description</u>
1	x	AB65 Carbon air box
1	x	Carbon fibre ring
6	x	M5 x 20 Stainless steel button head set screws
1	x	Aluminium air box mtg bracket (anodised bright silver)
2	x	M6 x 20 Socket head cap screws
3	x	M6 x 25 Socket head cap screws (bonded into plate)
3	x	M6 Nyloc lock nuts
6	x	M6 Penny washer
1	x	JC60/67 Maxogen air filter (anodised bright silver)
1	x	Clean air intake hose silicon 'S' shape 70mm ID
2	x	Air box to throttle body 60-80 hose clip
1	x	Cold air intake hose 0.6M long x 102mm ID
1	x	90-110 Hose clip

TOOLS YOU WILL NEED

Slotted Screw driver
3mm allen key
5mm allen key
1 x10mm open ended spanner



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REMOVAL

NOTE: If you are able to raise the engine cover further than using the stay provided then this will help with the overall removal of the old and fitting of the new ITG air box.

Remove the standard air box by firstly taking off the clip that holds the pipe from the air box to the manifold (either needle nose or standard pliers will do this). Then remove the air box lid and standard air filter. This will reveal 2 mounting points to the chassis. The one closest to the bulkhead requires a 10mm spanner and once that has been removed by working the screw from the air box out to the inner wing, the fixing closest to the boot/storage area will pop out by pulling it towards the engine.

You will then need to follow the air intake pipe with your hand all the way along to where it mounts to the plastic air intake over the nearside rear wheel (L/H/S). Gently pull it away from the mounting and remove completely the standard air box by lifting upwards.

NOTE: If after a little force the pipe will not come free you may have to cut the tie rap that holds the pipe onto the plastic air intake with a small set of pliers.

Now you are left with the standard air box mounting and this is removed by a rearward nut and a forward bolt.

NOTE: You will need to re-use the nut and bolt when fitting the ITG mounting bracket.

With the bracket loose, you will now be able to take this out of the allen bolts that hold the fuel filter to the air box mounting bracket. You will find that this is a time consuming process.

FITMENT

Attach the existing fuel filter to the aluminium mounting bracket using the 2 x M6 x 20 socket head cap screws that are loosely attached to the ITG mounting plate.

Fit the aluminium mounting bracket to the same chassis position as the standard air box using the original 2 x fixings. Note that the Lotus has a hand built rear chassis frame and there are sometimes tolerance build ups that mean the ITG mounting bracket does not have a snug fit over the existing 2 mounting points. We have hand fettled the bracket to help overcome this slight tolerance problem though all you will need to do is work the slotted hole a little more (if required) with a small round file. Also on some vehicles, the cabling runs a little close to the mounting bracket and so you will need to move the cabling a little with your hands to gain a little more access for the bracket to fit.



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Now fit the cold air intake hose (0.6M x 102mm) to the snout of the air box using the 90-110 hose clip. We have removed about 25mm of the wire helix from the neck of the hose so that you are able just to slide the hose over the neck of the air box to locate.

Feed the air box and hose into the space created by the removal of the old air box locating the intake hose over the plastic protrusion on the intake duct forward of the left hand rear wheel.

NOTE: Ensure that the air intake hose lies over the coolant hoses and fuel lines, not underneath them.

Now locate the air box over the protruding M6 screws on the aluminium mtg bracket ensuring there is a penny washer between the bracket and the air box. Place the 3 remaining penny washers over the screws on the inside of the air box and attach using the 3 x M6 nyloc nuts.

Insert the Maxogen air filter into the air box.

NOTE: The filter must be oiled before fitting. Please refer to the oiling instructions with the filter.

Some compression of the filter will be required to get it into the box and ensure a good fit of the aluminium spinning on the air filter to the protruding lip of the air box. Then fit the circular filter mounting ring using the 6 x M5 button head set screws to hold the filter into the air box.

Attach the air box to throttle body hose to the aluminium spinning of the air filter first using the 60 – 80mm hose clip supplied. Then pull the other end of the hose up to and over the throttle body and secure using the second 60 – 80mm hose clip. You may need to use a slotted screw driver or knife carefully to help slide the hose over the throttle body opening. Hold this in place with your left hand (effort required) keeping the hose parallel and tighten up with your right hand until no movement is detected.

NOTE: Do not over-tighten this clip to the throttle body.

After your first drive, check to see if anything has come loose and tighten accordingly. BE CAREFUL AS THE ENGINE WILL BE HOT!!

IMPORTANT NOTICE: We have produced this “one kit fits all” AB65KE3 Maxogen air flow systems kit for the Lotus Elise “Classic” under guidance from Lotus Cars. However, please note that the Lotus Elise is a hand built vehicle and sometimes tolerances have been known to vary. There may be an occasion that the intake hose that we supply may not fit from the filter to the intake manifold. In this instance, please contact us and we will be happy to supply you one that may be better suited to you vehicle.