



Performance air filters
for road and race vehicles

AB65KVZS180
ITG Maxogen Airbox Kit
Fitting Instructions





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AB65KVZS Performance Air Box

Fitting Instructions: Rover 45 MG ZS180 (2.5 V6)

PARTS LIST:

<u>QTY</u>		<u>Description</u>
1	X	AB65C Carbon Air Box (with 6mm drain hole underneath)
1	X	Carbon Fibre Ring
6	X	M5 x 20 Stainless steel button head set screws
1	X	Aluminium air box mounting Bracket
3	X	M6 x 25 Stainless Steel hex head set screws (attached)
6	X	M6 Penny Washer
3	X	M6 Ny-loc nut
1	X	M8 x 35 Hex head set
2	X	M8 Plated Washer
1	X	M8 Ny-loc nut
1	X	Silicon (black) clean air intake hose
2	X	Air box to throttle body 70-90 hose clip
1	X	102mm x 0.5mm Black Neoprene Ducting
1	X	90-110 hose clip
1	X	Stainless steel hose mtg. bracket
2	X	Cable tie
2	X	M6 x 10 Plated hex head set screw
2	X	M6 x spring washer
2	X	M6 x Ny-loc nut
1	X	JC60/70 Maxogen air filter
1	X	JDR-2 Dust Retention Spray

Tools you will need:

Slotted screw driver

Phillips screw driver

3mm Allen key

1 x 8mm open ended spanner

2 x 10mm open ended spanner



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REMOVAL:

NOTE: It will be safer and easier if the front of the car is raised by jack and suspended for the time of the fitting with two axle stands.

WHEEL ARCH REMOVAL

Remove the nearside wheel. Then remove the 6 outer plastic crosshead trim nuts and receptacles, 1 plastic 10mm headed nut and 4 x normal steel self tapping screws and then go under the front nearside of the bumper and remove the 10mm bolt that fixes the under-tray to the inner wheel arch and remove.

FRONT BUMPER REMOVAL

Take out the 2 x fixings that hold the bumper to the front wing on the drivers' side followed by the passenger side. With the bonnet open remove the 2 x 10mm headed bolts on either side of the headlamps. Now go under the valance and remove the 4 x black headed bolts. Then, with help of an assistant, ease the bumper away sufficiently to access the fog lamp wiring connections and disconnect them. Also if you have headlamp wash wipe fitted disconnect the pipe first and then remove the bumper and store away carefully.

FRONT PLASTIC UNDERTRAY REMOVAL

Remove the two trim clips holding the outer ends of the tray to the inner edge of each wheel arch. Then, remove the plastic rivets holding the tray to the towing eye brackets using a small flat head screw driver to gently lever off the whole panel and dislodge the rivets. Remove the three zinc finished 10mm headed bolts from the underside, noting the position of the metal strap held by one of them. Now remove the tray and place to one side.

AIR BOX/FILTER ASSEMBLY REMOVAL

Undo the two hose clips, holding the connection hose between the throttle body and the air box together and remove the hose. From the base of the box disconnect the plastic air pipes connecting the air box to the resonator. Now remove the two securing bolts holding the air filter to the bonnet locking platform (slam panel). Now lift the whole air box/filter assembly upwards out of the engine bay, taking care not to damage the air con pipe with the lower air pipe stub. Retrieve the lower bracket mounting rubber for use with the ITG kit during installation. Remove the two retaining bolts holding the resonator and remove the box out of the car.

(NOTE: Next to the upper mounting is a second captive nut which will be used for the ITG air duct hose fitting).



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FITTING:

To Begin, we need to fit the ITG air box to the black mounting bracket using the three stainless steel M6 cap head bolts. An M6 penny washer should sit either side of the AB65 air box before tightening into place with the M6 Ny-loc nuts.

Now fit the ITG cold air intake hose (0.5M x 102mm I/D) to the snout of the air box using the 90-110 hose clip.

(NOTE: Fit the ducting to the airbox with the internal wire helix cut back away from the end of the hose).

Now fit this assembly into the car from underneath and attach it using the M8 x 35 bolt through the more central of the two original lower air box mounting holes.



Please remember to use the standard rubber isolator and hold in place with an M8 washer either side before fixing with the M8 Ny-loc nut until compressed.



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FITTING CONTINUED:

Next fit the air intake ducting bracket to the upper 2 captive nuts that formerly secured the resonator box. Use the two M6 x 10 bolts and M6 spring washers ensuring the bracket is fitted with the tongue facing towards the centre of the car. Using the 2 x cable ties provided secure the ducting to the tongue using the slots in the bracket so that the open end of the ducting is pointing upward toward the headlight.



Now refit the bumper in the reverse of how it was taken off and lightly attach the under tray using the three 10mm silver headed (zinc plated) bolts, remembering to fit the metal strap. Fit the two trim clips to the main body (without the centre screw) under the drivers' and near side wings. Locate and position the feet correctly and fully through the tray and the receiving hole in the

inner wheel arch. Once located, hold in place whilst the centre screw is pushed in to lock the fixing in place. Now refit the two plastic rivets but make sure that the centre is pulled down as far as possible before engaging through the tray and bracket. Then push the centre in to lock the fixings and finally tighten up the three bolts.

Finally re fit the inner wheel arch liner by feeding the forward part back in behind the spoiler and under tray and secure using the three plastic trim clips. One at the top of the liner one at the rear and one forward that helps to fix the under tray in position. Fit the wheel and tighten to specified torque.

Now insert the Maxogen air filter into the Carbon air box, ensuring the filter has been oiled according to the instructions supplied.

Push the aluminium spinning on the air filter to the protruding lip of the air box, this should have a good seal and fit the circular filter mounting ring using the six M5 button head set screws to hold the filter into the air box being careful not to over tighten.



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FITTING CONTINUED:

Now fit the silicon hose to the air filter spinning and push securely down before fitting the top end of the hose to the throttle body. Push on the air by pass feed pipe and as this is an interference fit, no hose clip is required.

Tighten up the two hose clips (top and bottom) to secure the silicon hose in place again remembering not to over tighten.

Double check everything before removing the car from the axle stands.

(NOTE: deep raucous, purposeful, touring car like roar will only appear above 3,000 rpm).

IMPORTANT NOTICE:

DISCLAIMER:

INDUCTION TECHNOLOGY GROUP (ITG) HAS DESIGNED A BESPOKE AIR INTAKE SYSTEM FOR THE MGZS180 ROAD CAR. WE HAVE FITTED THE AIR INTAKE FOR THE AIR BOX IN THE MOST SUITABLE PLACE. WHILST THIS IS HIGH UP ON THE INNER WING, THERE IS ALWAYS A POSSIBILITY THAT THE INTAKE PIPE MAY WELL PICK UP WATER WHEN DRIVING THROUGH FLOOD WATER, FORDS OR SUCH SITUATIONS WHERE WATER IS STANDING ON THE ROAD. DO NOT UNDER ANY CIRCUMSTANCES ATTEMPT TO DRIVE YOUR VEHICLE THROUGH HIGH WATER LEVELS WHILST IN THIS CONFIGURATION AS THE WATER MAY WELL SWELL ABOVE THE LEVEL OF THE INTAKE PIPE AND BE DRAWN INTO THE AIRBOX. THE VEHICLE COULD STALL DUE TO LACK OF AIR AND POTENTIALLY TAKE WATER INTO THE ENGINE.

INDUCTION TECHNOLOGY GROUP WILL TAKE NO RESPONSIBILITY FOR THE CONSEQUENCE OF ANY NEGLIGENCE ON BEHALF OF THE INDIVIDUAL WHO UNDERTAKES THIS COURSE OF ACTION AND FLOODS THEIR ENGINE WITH WATER.