

Fitting Southdown Raised Air Intake

Before Installation Remove Wing Grill and Internal Components of Original Air Intake.

1. Position wing moulding 120mm in front of bulkhead on either wing as required 'A'. Mark hole on wing top and drill a circle of holes to create clearance for stainless sown pipe. Clean hole with half round file.
2. Position stainless L bracket approx 140mm down from roof gutter with holes facing inwards. Mark and drill holes 'B' for tapping 6mm. Insert two 6mm bolts and washers supplied, and secure L bracket.
3. Insert down pipe through wing and attach stainless clamp to sandwich L bracket. Raise down pipe up or down 'D' to align parallel to windscreen frame and grip stainless clamp onto the L bracket with G clamp or similar. Drill two 6mm holes 'C' mark position of down pipe to stainless clamp with marker pen for final assembly.
4. Adjust length of down pipe 'E' in order to attach flexible pipe supplied with jubilee clip. Cut off excess with a hacksaw, remove all sharp edges so as not to damage flexible pipe.
5. Degrease wing surface, down pipe and back of wing moulding with solvent. Apply black silicone to bore and back of wing moulding. Carefully insert own pipe into wing moulding and adhere to wing top. Adjust height of down pipe to pre-determined mark as in paragraph 3. assemble stainless clamp to L bracket with remaining nuts, bolts and washers.
6. Attach flexible pipe to down pipe with silicone and jubilee clip and route through to air filter assembly, attach flexible pipe to air filter entry (on 300 defender it may be necessary to use the reducer from 3.5" to 2.5" from the standard pipe work).
7. Slide the ram scoop facing forward onto the stainless down pipe (adjust overall height by trimming down the down pipe with hack saw as in paragraph 4 as required). Adhere with silicone or stainless self tapper supplied by drilling small hole under the front of ram scoop.
8. Finally remove excess silicone with a damp rag and replace wing grill.

Allow 48 HRS for silicone to cure before rotating ram scoop for deep wading.

Black silicone is a perishable product and is not supplied in the kit, but is available from most motor factor and accessory shops. Tiger seal or equivalent may be used instead of silicone.