Airflow Vector Pty Ltd
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Instructions to fit the Snorkel Kit S009

for the Chevrolet Silverado or GMC Sierra

1.0 Introduction

Airflow Vector Pty Ltd thanks you for your purchase and the trust you put in our products.
We strive to supply our customers with the highest quality equipment based on the most efficient design and best styling. We are confident that you will enjoy using our Snorkel system.
It should improve the power of your vehicle as well as reduce its fuel consumption.

1.1 General instructions

Follow carefully the instructions listed on these pages and use the template provided, do not over tighten bolts. Do not use silicone on any connections, use mastic.
Ensure that safe work practices are followed when installing your Airflow Snorkel. Protective ear and eye wear should be worn at all times when using power tools.

1.2 Disclaimer

It is highly recommended that installation is undertaken by a qualified mechanic or body shop. Airflow Vector will not be held responsible for any damage incurred through incorrect fitment of the templates and workmanship. It is the responsibility of the fitter to ensure that particular care is taken when assembling the Snorkel kit to the vehicle as it may cause damage to the windscreen and or electrical components. Safe work practices must be used at all times when undergoing installation.

We guarantee Airflow Vector's kits against manufacturing defects as long as proof of purchase can be established.

All models produced by Airflow Snorkels are verified to suit right hand drive vehicles according to Australian specifications. Variations in vehicle specifications may occur in other markets.

If you're in doubt about the product suitability, please forward a photograph of the engine bay, air filter housing and of the vehicle at frontal/side position to info@airflowvector.com

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2.0 List of Components



S009 Kit content				
Ref	**Designation**	**Qty**	**Length**	**Unit**
SP185	Snorkel Silverado	1		
SP187	Air Ram 4.5"	1		
SP157	Hose clamp 5”	1		
SK033	Bolt Kit	1		
SP192	TPR Hose 5”	1	8 3/4	“
SP186	Air box connector Silverado	1		
SP190	Hose clamp 4.5” – 5.5”	2		
SP191	Hose clamp 5.5”- 6 ¾”	1		
SD009U	Template	1		
SD009US	Booklet	1		

Fasteners included		
Ref	**Designation**	**Qty**
SP189	A Pillar Ext Extended S009	1
SP023	Washer Spring 1/4 x 1/4 Z/P	1
SP026	Screw Plug Nylon	2
SP025	Washer Panel 1/4 x 1.1/4 x 16g Z/P	11
SP024	G/Bolt ¼” x ½” Z/P	1
SP029	Screw Self Tap 10gx5/8 Z/P	2
SP022	Stud ¼” x 1” Z/P	11
SP027	Flange Nut ¼” Z/P	11
SP170	Plastic bag 3”x 5”	1

Ensure that all parts listed are included in the parcel before starting any work.

The total expected time of installation is around 3 hours.

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2.1 List of tools and additional parts required

Masking tape, clear tape, black mastic, hammer, centre punch
Assorted screw drivers, sockets and spanners
5" hole saw
Assorted drill set, wet / dry sand paper, ½ round file, small square file, Zinc rich primer

3.0 Detailed Instructions



3.1 Prior starting any work, ensure that the configuration of the air box is as shown. If it is not, the fitting of this kit will not be possible. Contact your dealer for further assistance



3.2 Remove the cover of the air filter



3.3 De-assemble the air box and remove it from the engine bay



3.4 Disconnect the battery and remove its lock

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3.5 Remove the battery



3.6 Un-fasten the coolant bottle



3.7 Shift the coolant bottle towards the front of the engine bay



3.8 Shift the cable harness as far as possible from the inner fender



3.9 Measure 4” from the lip of the engine bay



3.10 Measure 4” from the edge of the hole in the engine bay

3.11 Mark this location

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3.12 Centre punch this location



3.13 Pre-drill this location at ¼”



3.14 Using the hole saw, drill at LOW SPEED a 5” hole

3.15 GO SLOW, otherwise you may damage the fender when getting through



3.16 File the edge of the hole to remove any bur.

3.17 Take **SPECIAL CARE** of the filing, you will have to slide your arm in this hole to tighten the nuts

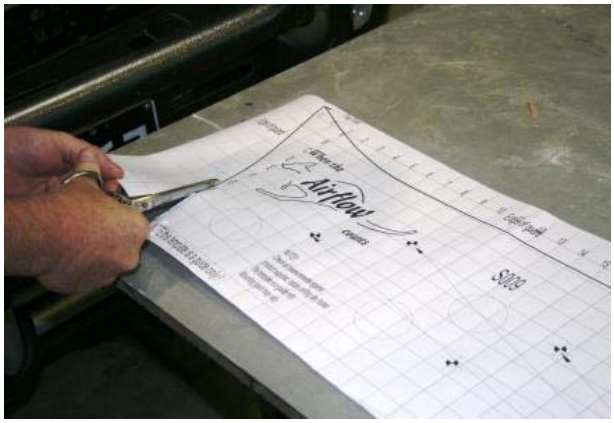


3.18 Locate the sound barrier inside the fender

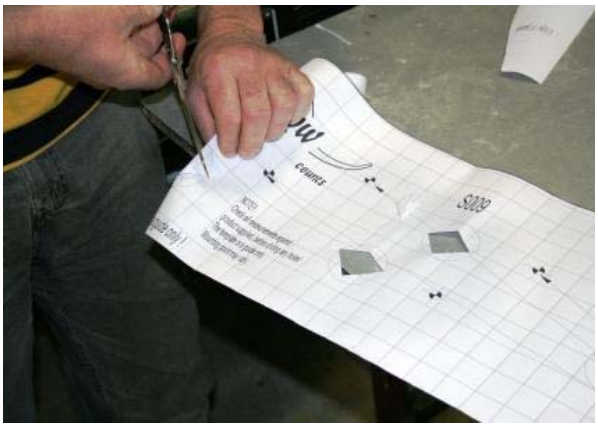


3.19 By pushing through the 5” hole recently drilled, remove the sound barrier

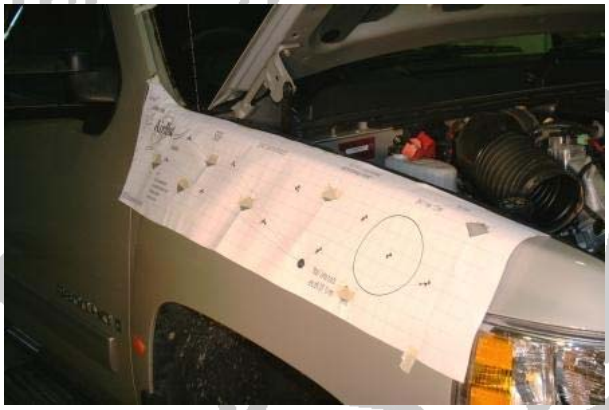
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3.20 Cut around the template following the fender lines



3.21 Cut the intermediate sticking locations



3.22 Line up the template to the edge of fender

3.23 Following a left to right and top to bottom sequence, tape the intermediate sticking locations



3.24 Centre punch all marked holes



3.25 Pre-drill all holes at ¼" (11 snorkel mounting holes, 1 hole saw hole)…



3.26 … then drill the 11 fixation holes at 3/8"

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3.27 Using the hole saw, drill at LOW SPEED one 5” hole



3.28 File the edge of the hole to remove any bur.



3.29 Inside the engine bay, draw a line vertical along the edge of the hole



3.30 Mark a point 1” from this line



3.31 Pre-drill this location at ¼”



3.32 Using the hole saw, drill at LOW SPEED a 5” hole

3.33 GO SLOW, otherwise you may damage the fender when getting through

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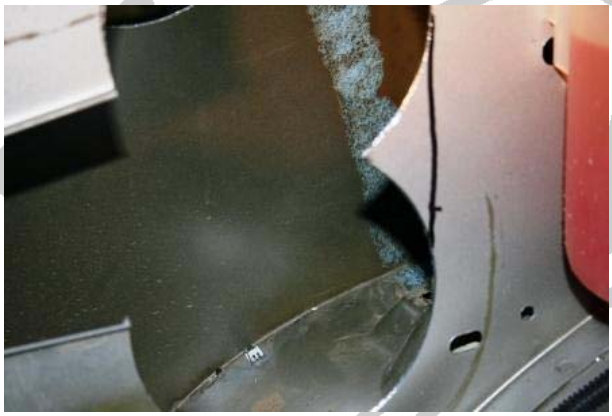
3.34 Mark a point 1.5 ” from the vertical line

3.35 Pre-drill this location at ¼”



3.36 Using the hole saw, drill at LOW SPEED a 5” hole

3.37 GO SLOW, otherwise you may damage the fender when getting through



3.38 Join the edges of the two holes with a line



3.39 Grind away the excess material



3.40 Then grind away the bottom left corner to achieve this shape….



3.41 … then grind away the top left corner to achieve this shape

3.42 File the holes to remove any burr

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3.43 Paint ALL raw metal surfaces with Zinc rich primer (11 snorkel fixing holes, 1 air intake hole, 2 access hole)



3.44 Peel off the door rubber seal

3.45 Remove the windscreen lining strip



3.46 Fit all the studs and secure them with a locking compound



3.47 Pre fit the snorkel to the fender to allow the marking of the “A” pillar bracket



3.48 Fit the “A” pillar bracket SP189 with the washer SP023 and bolt SP024
Do not over tighten fixings to avoid damage to the snorkel



3.49 Mark to holes of the “A” pillar bracket onto the paint

3.50 Remove the snorkel

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Note: This Snorkel is fitted with a second “A” pillar location to be installed if one intends to use the Collector Pre-Cleaner instead of the Air Ram. If required, please contact us to obtain the Bolt Kit SK233



3.51 Centre punch the 2 holes



3.52 Pre-drill at 5/32” the two holes



3.53 Drill the two holes for the “A” pillar position at 9/32”



3.54 File the holes with a square file to suit nylon plugs SP026

3.55 Paint the two holes with Zinc rich primer



3.56 Once the paint is dry, fit the two square plugs SP026

3.57 Temporarily refit the windscreen lining strip



3.58 Refit the snorkel with the “A” pillar bracket and mark the location of the bracket on the lining strip

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3.59 Remove the lining strip and drill at the edge of the marks



3.60 Using a utility knife, cut a slot to join the two holes



3.61 Slide the strip on the “A” pillar bracket

3.62 Secure the bracket SP189 with the screws SP029



3.63 Re-secure the lining strip

3.64 Refit the rubber seal

3.65 Secure the snorkel with washers SP025 (x11) and nuts SP027 (x11) to the fender

Do not over tighten fixings to avoid damage to the snorkel



3.66 Cut the edge of the air box…



3.67 …to achieve this shape

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3.68 Please wear gloves

3.69 Use only **NON** SILICONE BASE black mastic as sealant

3.70 Smear some sealant inside both ends of the TPR Hose SP192



3.71 Slide one hose clamp SP190 at each end

3.72 Connect the SP186 to one end of the TPR hose



3.73 Tighten the hose clamp SP190 to secure the connector SP186



3.74 Slide the assembly in the engine bay and connect it to the snorkel



3.75 Slide the hose clamp SP191 on the connector SP186



3.76 Connect the air box to the SP186 and secure the hose

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3.77 Secure the air box

3.78 Re-install the battery



3.79 Re-secure the coolant bottle



3.80 Slide the hose clamp SP157 on the air ram SP187 then slide it on the snorkel SP185

3.81 Ensure that the top of the snorkel matches the top of the slot cut in the Air Ram



3.82 Drill the hose clamp next to the worm drive



3.83 Secure the Air Ram with the self tapping screw SP029

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Important note: Do not turn the Air Ram away from the direction of travel because it will lessen the positive pressure necessary for proper operation. **In extreme situation, at speed above 15mph (25km/h) a vacuum may be generated causing irreversible engine damage**



3.84 Polish with silicone cleaner

4.0 Improvement program

We strive to produce documentation and kits free of mistakes, however, should you discover any error or omission, please let us know by quoting the initials shown in the box on the last page.
Furthermore, if you think that a step of this procedure could be improved, please send us at info@airflowvector.com your suggestions indicating the procedure name, its release date, the step details and the photo if necessary.

We appreciate your support.

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This kit has been carefully packed by	
Date	**Initials**

Note: The content of this manual may be modified from time to time to ensure that improvements brought to our kits are described accurately. Before starting the installation, try to obtain the latest version of the instruction manual from our web site www.airflowvector.com