

Instructions to fit the Snorkel Kit S076

for the Suzuki Vitara V6 98-03

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 panel beater. 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 Vector 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



S076 Kit content				
Ref	Designation	Qty	Length	Unit
SP093	Snorkel Vitara	1		
SP064	Air Ram	1		
SP019	Hose Clamp 60/80mm	2		
SP015	TPR Hose 76mm	1	200	mm
SP142	Hose clamp 70/90mm	1		
SK018	Bolt kit	1		
SP171	Plastic bag 280x3800m	1		
SD076	Template	1		
SD076E	Booklet			

Fasteners included		
Ref	Designation	Qty
SP113	A Pillar bracket S76	1
SP026	Screw Plug Nylon	2
SP027	Flange Nut M6 Z/P	4
SP029	Screw Self Tap 10gx5/8 Z/P	3
SP023	Washer Spring 1/4 x 1/4 Z/P	1
SP033	Washer 1/4 x 3/4 Z/P	4
SP024	G/Bolt M6 x 12mm Z/P	1
SP022	Stud M6 x 25mm Z/P	4
SP170	Plastic bag 75x125mm	1

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

The total expected time of installation is around 2 hours.

2.1 List of tools and additional parts required

Masking tape, clear tape, black mastic, hammer, centre punch

Assorted screw drivers, sockets and spanners

76mm hole saw

Assorted drill set, wet / dry sand paper, ½ round file, small square file,
Zinc rich primer

It may be necessary to acquire new fixings from Suzuki to replace the inner guard fixings if they get damaged during their removal

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 splash panel



3.3 Unbolt the air box from the engine bay...



3.4 ...and remove it

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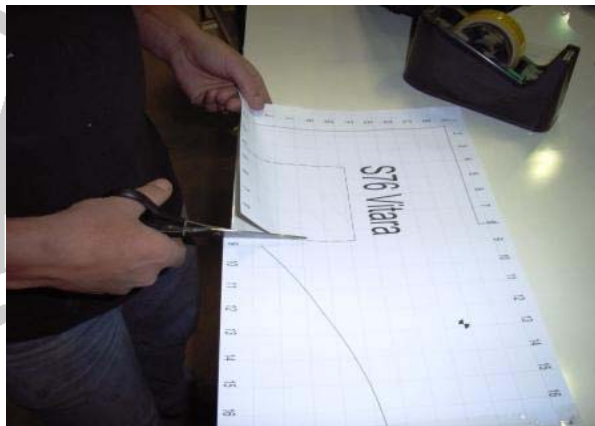
3.5 Unbolt the factory air box ducting...



3.6 ...remove it...

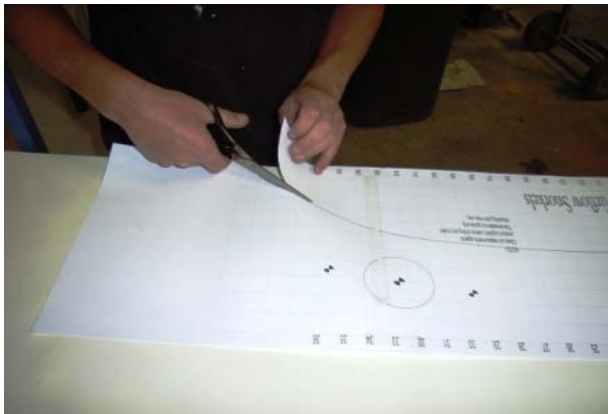


3.7 ...and discard it



3.8 Read the template carefully

3.9 Cut out the hole for the indicator



3.10 Cut out the template along the guard line



3.11 Line up the template to the guard

3.12 Tape it to the guard



3.13 Centre punch all marked holes



3.14 Cover the areas to be drilled with masking tape

3.15 Mark the centre punch with a felt pen on tape



3.16 Pre-drill all holes at 5mm (4 snorkel mounting holes, 1 hole saw hole)



3.17 Using the hole saw, drill at LOW SPEED a 76mm hole



3.18 Then drill the four fixation holes at 10mm



3.19 File to suit snorkel tube and to remove any burr

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3.20 Screw the 4 studs SP022 with chemical locking compound; at least 20mm must protrude.



3.21 Fit the "A" pillar bracket SP113 with the washer SP023 and bolt SP024
Do not over tighten fixings to avoid damage to the snorkel



3.22 Fit temporarily the snorkel SP093 to allow the marking of the "A" pillar



3.23 Mark the "A" pillar bracket position



3.24 Remove the snorkel

3.25 Centre punch the 2 holes



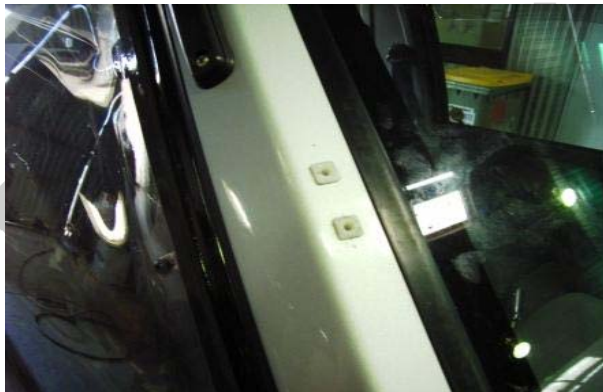
3.26 Drill the two 7mm holes for the "A" pillar position



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



3.28 Paint ALL raw metal surfaces with Zinc rich primer (4 snorkel fixing holes, 1 air intake hole, 2 "A" pillar holes)



3.29 Once the paint is dry, fit the 2 square plugs SP026



3.30 Mount the bracket SP113 with the screws SP029



- 3.31 Please wear gloves
- 3.32 Use only **NON** SILICONE BASE black mastic as sealant
- 3.33 Smear some sealant on outside of the SP093 as shown on the picture



- 3.34 Install the snorkel SP093
- 3.35 Fit washers SP033 (x4) and nuts SP027 (x4) to secure the snorkel to the guard
Do not over tighten fixings to avoid damage to the snorkel

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3.36 Carefully remove the rubber bush fitted on the air box

3.37 Cover the air box inlet with black mastic



3.38 Fit the rubber bush inside one end of the TPR hose SP015

3.39 Slide one hose clamp SP019 at each end



3.40 Slide the side without bush through the inner guard

3.41 Connect it to the snorkel SP093

3.42 Tighten the hose clamp SP019



3.43 Connect the air box to the TPR hose SP015



3.44 Secure the air box



3.45 Tighten the hose clamp



3.46 Refit the air filter



3.47 Close the air box



3.48 Tighten the hose clamp



3.49 Refit the splash panel



3.50 Secure the snorkel to the bracket with the washer SP023 and the bolt SP024
Do not over tighten fixings to avoid damage to the snorkel



3.51 Slide the hose clamp SP142 on the air ram SP064 then slide it on the snorkel SP093

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

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3.53 Tighten the hose clamp

3.54 Drill the hose clamp next to the worm drive



3.55 Secure the Air Ram with the self tapping screw SP029

Note: The Air Ram is also available in Fluro, green or blue

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 25km/h (15m/h) a vacuum may be generated causing irreversible engine damage

4.0 Optional pre-cleaner (not included in this kit)



4.1 Remove the Air Ram SP064



4.2 Install Pre-cleaner filter sock SP065A



4.3 Air sock should neatly fit into the top of the snorkel body



4.4 Re-install the Air ram SP064

4.5 Tighten the hose clamp SP142 Screw the self tapper SP029 through the hose clamp



4.6 Polish with silicone cleaner

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5.0 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 below.

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.

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