

Instructions to fit the Snorkel Kit S014

for the Dodge Ram 2500 and Power Wagon (5.7L HEMI)

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

2.0 List of Components



S014 Kit content				
Ref	Designation	Qty	Length	Unit
SP151	Snorkel Dodge Ram	1		
SP063	Air Ram 3.5"	1		
SK004	Bolt kit S014	1	➔	
SP135B	Elbow	1		
SP018	Hose clamp 3" / 4"	3		
SP013	TPR Hose 3.5"	1	15 3/4	"
SP184	Air box connector	1		
SP132	Hose clamp 3.5" / 4.5"	1		
SD014	Template	1		
SD014E	Booklet in English	1		

Fasteners included		
Ref	Designation	Qty
SP183	A Pillar S014	1
SP026	Screw Plug Nylon	2
SP029	Screw Self Tap 10gx5/8 Z/P	9
SP023	Washer Spring 1/4 x 1/4 Z/P	1
SP025	Washer Panel 1/4 x 1.1/4 x 16g Z/P	5
SP024	G/Bolt 1/4" x 1/2" Z/P	1
SP027	Flange Nut 1/4" Z/P	5
SP022	Stud 1/4" x 1" Z/P	5
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.

2.1 List of tools and additional parts required

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

Assorted screw drivers, sockets and spanners

4" hole saw

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

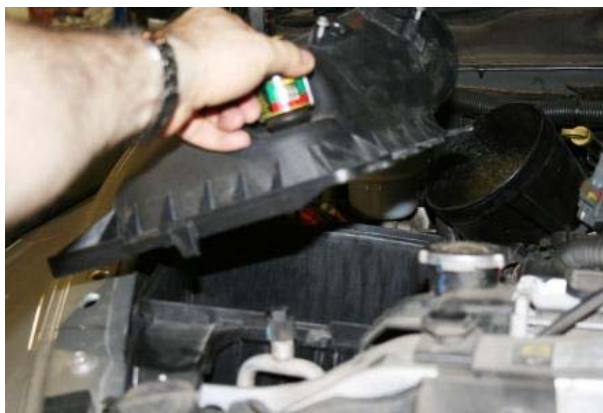
3.0 Detailed Instructions



- 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 splash panel



- 3.3 Disconnect and remove the top of the air box



- 3.4 Remove the air box from the engine bay

Airflow Vector Pty Ltd

4 Collins Rd, DROMANA VIC. 3936

AUSTRALIA

Ph: +61 3 5987 3733

www.airflowvector.com



3.5 Remove the air intake and discard it.



3.6 Locate the connector SP184 as shown



3.7 Drill six 5/32" holes in the connector SP184 (2 on the top, 2 on the bottom 1 on each side)



3.8 Please wear gloves

3.9 Use only **NON** SILICONE BASE back mastic

3.10 Smear some sealant on the connector SP184



3.11 Using the screws SP029, attach the SP184 to the air box



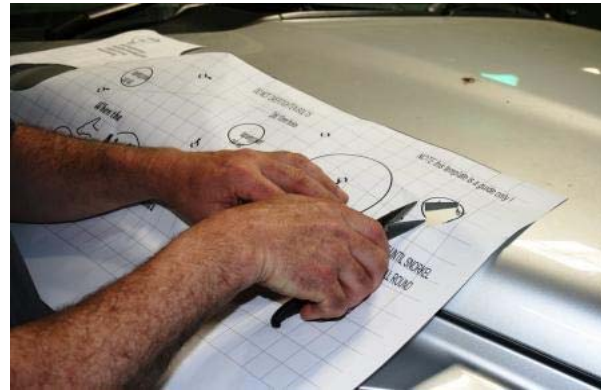
3.12 This is the way it will look once finished



3.13 Read the template carefully

3.14 Cut the template out along the fender line

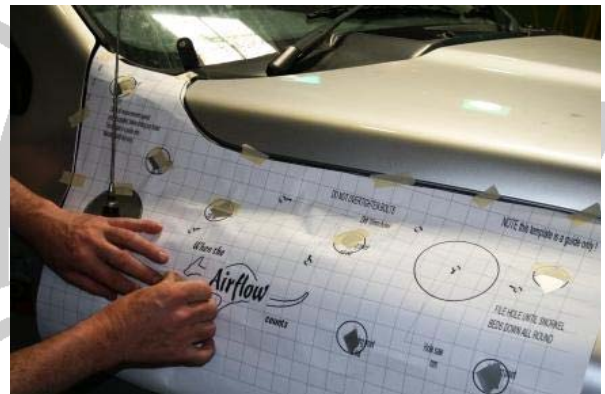
3.15 Cut the antenna hole



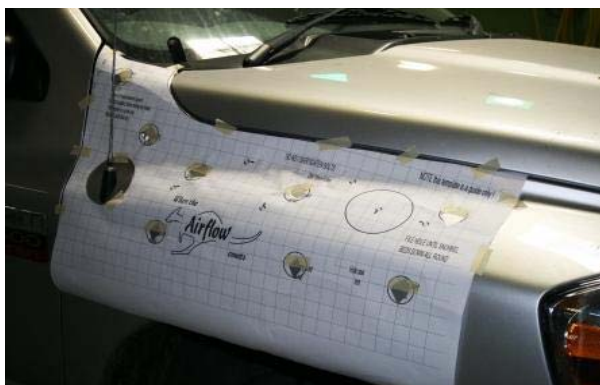
3.16 Cut the internal tapping areas to allow sticking the template very close to the body of the car



3.17 Start tapping the template from the top left ensuring to follow the fender line carefully



3.18 Continue tapping in sequence ensuring that the template follow the contours of the fender



3.19 The template should be secure as shown above



3.20 Centre punch all marked holes

3.21 Remove the template

3.22 Cover the areas to be drilled with masking tape

Airflow Vector Pty Ltd

4 Collins Rd, DROMANA VIC. 3936

AUSTRALIA

Ph: +61 3 5987 3733

www.airflowvector.com



3.23 Pre-drill all holes at $\frac{1}{4}$ " (5 snorkel mounting holes, 1 air intake hole)



3.24 Drill the two top snorkel mounting holes at $\frac{1}{2}$ " and the three lower at $\frac{3}{8}$ "



3.25 Using the hole saw, drill at LOW SPEED a 4" hole



3.26 File to suit snorkel tube and to remove any burr



3.27 Screw the 5 studs SP022 with chemical locking compound; at least $\frac{13}{16}$ " must protrude



3.28 Fit the "A" pillar bracket SP183 with the washer SP023 and bolt SP024 on the top hole
Do not over tighten fixings to avoid damage to the snorkel



3.29 Peel off the rubber seal from the A Pillar



3.30 Fit temporarily the snorkel SP151 to allow the marking of the "A" pillar bracket



3.31 Using the bracket as a template, drill through the black strip ONLY at 4mm to mark the metal underneath



3.32 Remove the black strip from the "A" Pillar



3.33 Pre-drill two 5/32" holes through the two thickness of metal



3.34 Taking great care, drill the two holes at 9/32" through the two thickness of metal

Airflow Vector Pty Ltd

4 Collins Rd, DROMANA VIC. 3936

AUSTRALIA

Ph: +61 3 5987 3733

www.airflowvector.com



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



3.36 Paint ALL raw metal surfaces with Zinc rich primer (5 snorkel fixing holes, 1 air intake hole, 2 "A" pillar holes)



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



3.38 Refit the black strip



3.39 Please wear gloves

3.40 Use only **NON** SILICONE BASE back mastic

3.41 Smear some sealant inside the TPR hose SP013



3.42 Slide a hose clamp SP018 on the TPR hose

3.43 Connect the elbow SP135B

3.44 Tighten the hose clamp SP018



3.45 Smear some sealant inside the elbow SP135B

3.46 Slide a hose clamp SP018 on the elbow



3.47 While holding the elbow SP135B under the guard, connect the snorkel SP151 through the guard



3.48 Fit washers SP023 (x5) and the nuts SP027 (x5) to secure the snorkel to the guard
Do not over tighten fixings to avoid damage to the snorkel



3.49 Secure the bracket to the "A" pillar with the two self tap screw SP029



3.50 Push hard on the snorkel towards the windscreen to ensure that the bracket settles in the rubber seal



3.51 Re-fit the rubber seal onto the A Pillar

Airflow Vector Pty Ltd

4 Collins Rd, DROMANA VIC. 3936

AUSTRALIA

Ph: +61 3 5987 3733

www.airflowvector.com



3.52 Slide the TRP hose through the inner guard inside the engine bay



3.54 Put back the modified air box base assembly in the engine bay

3.53 Slide a hose clamp SP018 on the TPR hose



3.55 Connect the TRP hose to the air box



3.56 Tighten the hose clamp

3.57 Refit the cover of the air box and reconnect the outlet tube and sensing cables



3.58 Refit the splash panel



3.59 Slide the hose clamp SP018 on the snorkel SP168



3.60 Slide the air ram SP063 onto the snorkel

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



3.62 Tighten the hose clamp



3.63 Drill the hose clamp next to the worm drive

3.64 Secure the Air Ram with the self tapping screw SP029

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

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 SK204

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**

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



4.1 Remove the Air Ram SP063



4.2 Install Pre-cleaner filter sock SP065B



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



4.4 Re-install the Air ram SP063

4.5 Tighten the hose clamp SP019

4.6 Screw the self tapper SP029 through the hose clamp

Snorkels for your 4WD



4.7 Polish with silicone cleaner

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 overleaf.

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