

Instructions to fit the Snorkel Kit S062P

for the Chrysler KJ Jeep 3.7L V6 Petrol

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

2.0 List of Components



S062P Kit content				
Ref	Designation	Qty	Length	Unit
SP102	Snorkel KJ	1		
SP019	Hose Clamp 60/80mm	2		
SP063	Air Ram 3.5"	1		
SP018	Hose clamp 80/100mm	1		
SK003	Bolt Kit	1		
SP104	Air box connector	1		
SP015	TPR Hose 76mm	1	250	mm
SP060	Blocking Plate	1		
SP171	Plastic bag 280x380mm	1		
SD062	Template	1		
SD062A	Template aixbox	1		
SD062I	Template inner guard	1		
SD062IM	Template inner middle guard	1		
SD062PE	Booklet	1		

Fasteners included		
Ref	Designation	Qty
SP043	A Pillar bracket - bent KJ	1
SP026	Screw Plug Nylon	2
SP029	Screw Self Tap 10gx5/8 Z/P	3
SP023	Washer Spring 1/4 x 1/4 Z/P	1
SP023	Washer Panel 1/4 x 3/4 Z/P	5
SP024	G/Bolt M6 x 12mm Z/P	6
SP112	Pop rivet Bulbex 4x20mm	4
SP170	Plastic bag 75x125mm	1

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

The total expected time of installation is around 8 – 10 hours.

2.1 List of tools and additional parts required

Masking tape, Clear tape, Urethane
Hammer, Centre punch
Assorted screw drivers
76mm hole saw
Assorted drill set
Wet / dry sand paper
½ round file, Small square file
Zinc rich primer

NOTE: It may be necessary to purchase new single use plastic rivets fixings from Chrysler Jeep if the inner guard fixings are damaged

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 mud splash panel



- 3.3 Read template carefully
- 3.4 Cut template out along the Guard line.
- 3.5 Tape template sheets together on both sides with clear tape.
- 3.6 Line up the template to the guard
- 3.7 Trim the template to suit the guard shape
- 3.8 The template must fit the contours of the guard
- 3.9 Tape the template to the guard with masking tape
- 3.10 Centre punch all marked holes
- 3.11 Cover the areas to be drilled with masking tape
- 3.12 Use a pen to remark all the punch marks
- 3.13 Using the hole saw, drill at LOW SPEED a 76mm hole
- 3.14 File to remove any burr and allow a snug fit of the snorkel



- 3.15 Drill 10mm holes
- 3.16 Elongate them vertically to suit the studs
- 3.17 Elongate this hole horizontally since the stud is on a slant



3.18 To allow the drilling through the additional panels, remove the external panel / fender



3.19 On the LTD models, there is a 'Bonnet Alarm' pin located on the inner guard.



3.20 Remove the air box

3.21 On the CRD models, you will have to remove a section of sound insulation in which you will have to cut a 76 mm hole before re-installing it



3.22 Cut the hole as marked



3.23 Use the inner middle guard template to line up of these points



3.24 And tape the template



3.25 Mark and cut the hole



3.26 Unclip the air condition pipe and the wiring harness to allow easy access when cutting the hole in the inner guard

When the



3.27 Using the inner template, line up the reference points

3.28 Cut out the hole

3.29 When all holes are cut in the three panels, remove any burrs and paint the areas with zinc rich paint



3.30 To prepare the air box, place the template over the air box using the trim line as a guide

3.31 Cut out a 76mm hole to allow the fitting of the SP104



- 3.32 Place the under bonnet inside the hole
- 3.33 Grind away the reinforcing ridges inside and outside the air box to ensure that the tabs are as close as possible to the body of air box
- 3.34 Drill 4 holes through the under bonnet SP104 into the air box

- 3.35 Please wear gloves
- 3.36 Use only **NON SILICONE** BASE black mastic
- 3.37 Apply black mastic as shown and fit the SP104 with the 4 pop rivets SP112
- 3.38 Ensure that the seal is water tight



- 3.39 Remove this part from the air box and discard it.

- 3.40 Install the blocking plate SP060 and lock it with black mastic on the top edge
- 3.41 Seal up all the other vent holes
 Note: If you intend to do river crossings, seal all holes. Otherwise, for normal operation, leave the lowest hole free to allow incoming water to evacuate



- 3.42 Fit temporarily the snorkel SP102 on the outer guard with two bolts SP024 to allow the marking of the "A" pillar
- 3.43 Attach the A Pillar bracket to the top hole of the snorkel with the washer SP023 and the bolt SP024
- 3.44 Mark the "A" pillar position
- 3.45 Remove the snorkel
- 3.46 Drill two 6 mm holes to allow the mounting of the nylon plugs SP026
- 3.47 File the holes to a square shape

Important note: Ensure that snorkel is fitted correctly before marking the A Pillar bracket position. If the snorkel body is fitted too far forward, the bracket will have a different angle and it may cause the A pillar to be damaged and/or the wind screen to crack

Note: This Snorkel is fitted with a second "A" pillar location (bottom hole) 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 SK203



- 3.48 Remount the air box and attach the TPR hose SP015 with the hose clamp SP019
- 3.49 Fit washers SP025 (x5) and bolts SP024 (x5) to secure the snorkel to the guard
Do not over tighten fixings to avoid damage to the snorkel



- 3.50 Refit the outer guard
- 3.51 Attach the TPR hose to the snorkel
- 3.52 Tighten the hose clamp SP019



- 3.53 Re-install all the panel bolts and the wheel arch guard



- 3.54 Refit the mud splash panel



- 3.55 Secure the A Pillar

Snorkels for your 4WD



- 3.56 Fit washers SP023 on bolt SP024 to secure the snorkel to the bracket
Do not over tighten fixings to avoid damage to the snorkel



- 3.57 Slide the hose clamp SP018 on the snorkel SP102, then mount the air ram SP063 onto the snorkel
- 3.58 Ensure that the top of the snorkel matches the top of the slot cut in the Air Ram
- 3.59 Tighten the hose clamp



- 3.60 Drill the hose clamp next to the worm drive.



- 3.61 Secure the Air Ram with the self tapping screw SP029
- 3.62 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 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 SP018

4.6 Screw the self tapper SP029 through the hose clamp



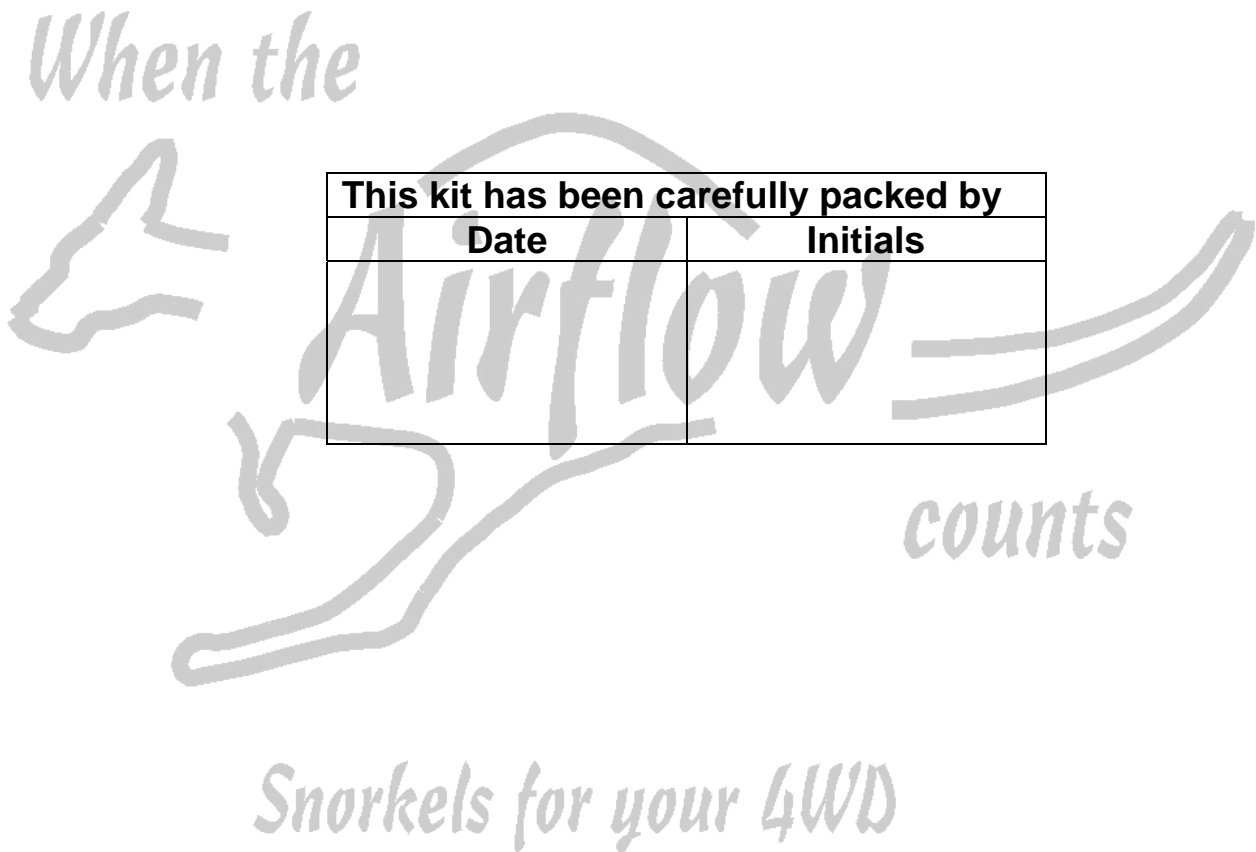
4.7 Polish with silicone cleaner

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 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.



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