

Things to consider when first driving with Cold air induction snorkels

What condition are you driving in with you Air Flow snorkel

Rain

Can you see 300 - 400metres in front of you

Dust

Can you see 300- 400 metres in front of you

Insects / debris

Can you see 300-400 metres in front of you

Snow

No snow falling steadily

If the answer to the above YES you Cold Air Induction AIRFLOW AIR Ram is designed to separate out the contaminants.

Where this is not the case a air cyclone separator is needed.

While this will not give any ram effect, It will protect your engine from being inundated in extreme conditions.

While Air flow Cold Air Ram will give superior effective separation

It should be noted that regular cleaning of the air cleaner element is important in harsh conditions.

Do you have LPG (gas) fitted to you petrol engine.

A common problem with regulated LPG is over fuelling or under fuelling.

This is fixed by connecting a balance pipe between back of the gas regular and the inlet air from the air cleaner.

This will balance the pressure on both sides of the regular.

There for allowing normal operation of the regulator

Turning the air ram backwards is not the fix and is dangerous

The Cold air induction system snorkel you have purchased is a Net compression system unlike other makes that net vacuum systems

TPR duct while having high friction loss doesn't change shape dramatically as do other snorkel makes using flexible connection that dramatically change shape causing extreme friction losses

Water Crossing

Question you should ask.

Is there another way around, if not is this the best place to cross.

This is something that should not be attempted on your own.

It is important that there is an experienced person is there to help

Water crossing can be very dangerous, resulting in the lost of the vehicle or worse.

Know the height of water that your vehicle can travel through safely.

Preparing your vehicle

Make sure all the holes in your air cleaner are sealed so that water will not enter.
Have a tarp to cover the front of your vehicle to stop water being forced in to your engine compartment

Check tyre pressures for the different types of terrain, Eg : sand , rocks ect.

Make sure the proposed path is passable. This may involve walking through to check the track. In general you can not see what is under the water

Check the depth , bearing in mind the other things fitted to your vehicle that may be affected by water. Eg : These are some of the things that may be affected : Electric's, compressors, breather pipe's on diffs / gear box, other, weather seals on doors, holes in door that may affect electric windows and others

once over the crossing

Removed the tarp, check the air cleaner for water remove plugs used to seal air cleaner, check over the whole vehicle before moving off.

Foam Pre cleaner socks

Have limited use

They slow down the air flow dramatically.

This causes lack of air separation in the air ram, there for more dirty air is let in which is then caught by the foam filter. The air ram on it own will remove all but the fine dust.

If you do not have a cyclone separator for extreme dust or insects this will help a low speeds

It is not good with water or snow, the water will end up in the filter box.

They will certainly provide muffling of induction noise which is present in a few makes and models

It will curtail the cold air induction system turning it into a vacuum system again.

Less power, decrease in fuel economy

Foam filter for front of air ram

Is even more restrictive than the filter sock with all the same problem and some while it will stop the fines from coming in to the induction system.

It will block quickly as it doesn't have sufficient surface area.

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The Air Ram

In essence the both types of Airflow air rams are cyclone separators that are fed from the front induction screen. In the case of the standard 3 inch there is no compression apart from the ram effect from the forward motion.

The Cold air induction Air Ram has a compressing effect which aids in the separation of particles. This system uses less air to in the separation process and increases the pressure to the snorkel body

If the Air Ram is turned away from the direction of travel, it will lessen the necessary positive pressure to provide separation to the air. In extreme situations, at higher speed, a vacuum is being generated can cause irreversible engine damage!

Things you will notice

Improved airflow to engine intake

Improved out put in both torque and Horse power

Engine responds quicker

Decrease in less turbo lag

Less emissions from the engine

High degree of air separation

Less air deflection to air ram

High flow snorkel body

High flow Air ram greater separation

Less friction loss through snorkel body

Provides 200% of free air to the inlet

Cold air induction configuration in all new model kit

Net compression system unlike other makes that net vacuum systems