

Snorkel



In Offroading, snorkels are used on the one hand to raise the air intake for the engine so that deeper wading is possible. On the other hand, they are also used to filter out dust particles to keep them away from the air filter (i.e. desert sand).

Unfortunately, I am not very familiar with the different types of snorkels.

If the purpose is just to wade through deeper water, a simple tube that raises the air intake of the engine (connected tightly to the air filter) is enough. However, it should be protected nevertheless at the upper end against dust and rain. How long the tube can be and what diameter it must have I have not calculated as I have a standard snorkel. So I didn't have to bother about correct construction. But looking at the various items on the market, my best guess is a length of approximately 1.2 meters and an inner diameter of around 6 cm should do the job. Longer tubes don't make sense anyway as the deeper the water, the more the vehicle loses ground adherence (uplift).



For very dusty environment (i.e. desert or dirt roads) it is recommended to place a particle filter on the top of the tube (i.e. cyclone air filter). There are many different brands and types on the market. Most of them however need some maintenance (i.e. empty the dust container). Apparently, Landrover has gone its own way. Although the original snorkel acts as kind of a cyclone air filter, the dust particles are not collected in a container but ejected instantly through an air whirl. Hence, they don't need maintenance.



My garagist recommended to use the original Landrover snorkel. This was more than 10 years ago. Up to now, I have never experienced any problems with it. However, I am unable to make a comparison with more costly cyclone air filters as I miss any reference. But I am sure, Google or Wikipedia know the answer.