



Snorkels are commonly the first accessory ever fitted to a four wheel drive. And why wouldn't they be with all these benefits?

Not only do they allow for deep water crossings and hassle free air induction when immersed in dust; they also have other key features.

The air quality at roof level is cleaner and cooler than air travelling via the bonnet, so this means greater fuel efficiency and less clogging of air filters. These are very important factors, particularly when 4WDing on dry, dusty roads.

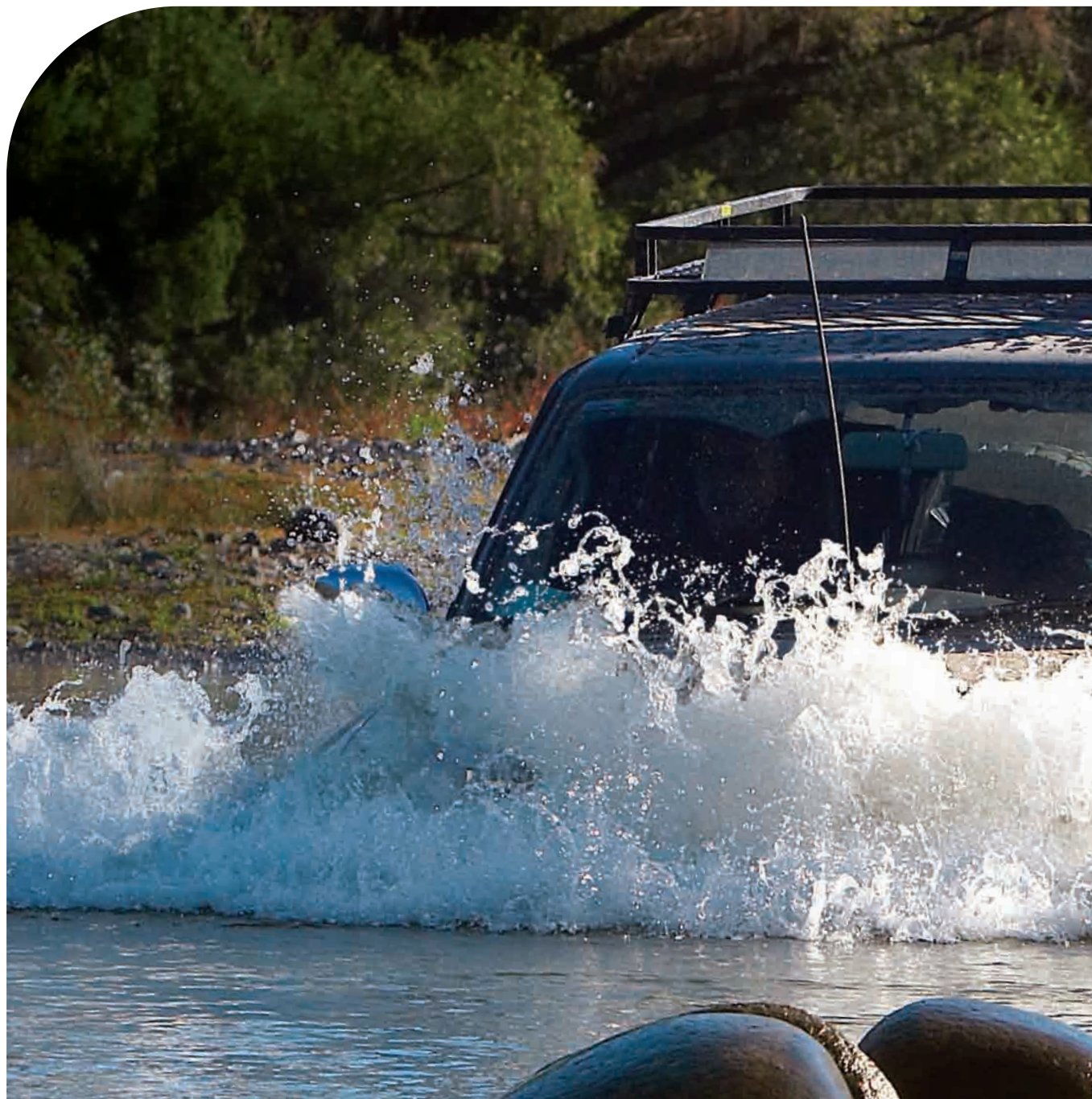


Even when it rains the TJM Airtec design captures and disperses rain drops through drain holes at the base of the air ram. This feature removes excess rain from mixing with the air stream and preventing water intake during heavy rain.

When it comes to materials, TJM sources only the finest quality to be used in the Airtec range. All products are made with leading Australian polymer materials that exceed the Australian Standard for UV stabilisation of UV8, with ratings at UV20-UV24. The colour pigmentation process doesn't cut any corners giving you an even, dense and bleed-free product.

Unlike other manufacturers, TJM individually engineer and design the snorkel to suit the natural shape of the vehicle. Although functionality is important, we want you to look good too!

Proudly Australian made and quality assured, you can have the confidence that a TJM Airtec snorkel will achieve peak performance each and every time.





Every 4WD should enjoy the Airtec advantage

- › Fitting a TJM Airtec snorkel allows air to be drawn from roof level
- › Provides a continuous supply of cooler and cleaner air to the engine
- › Because the air supply is drawn from roof level, dust is not as thick and plentiful in the engine bay or inner guard. This will help extend the life of the air cleaner element, reducing the wear of vital components
- › A TJM Airtec snorkel will significantly reduce the hazards of engine damage during water crossings



Features & benefits

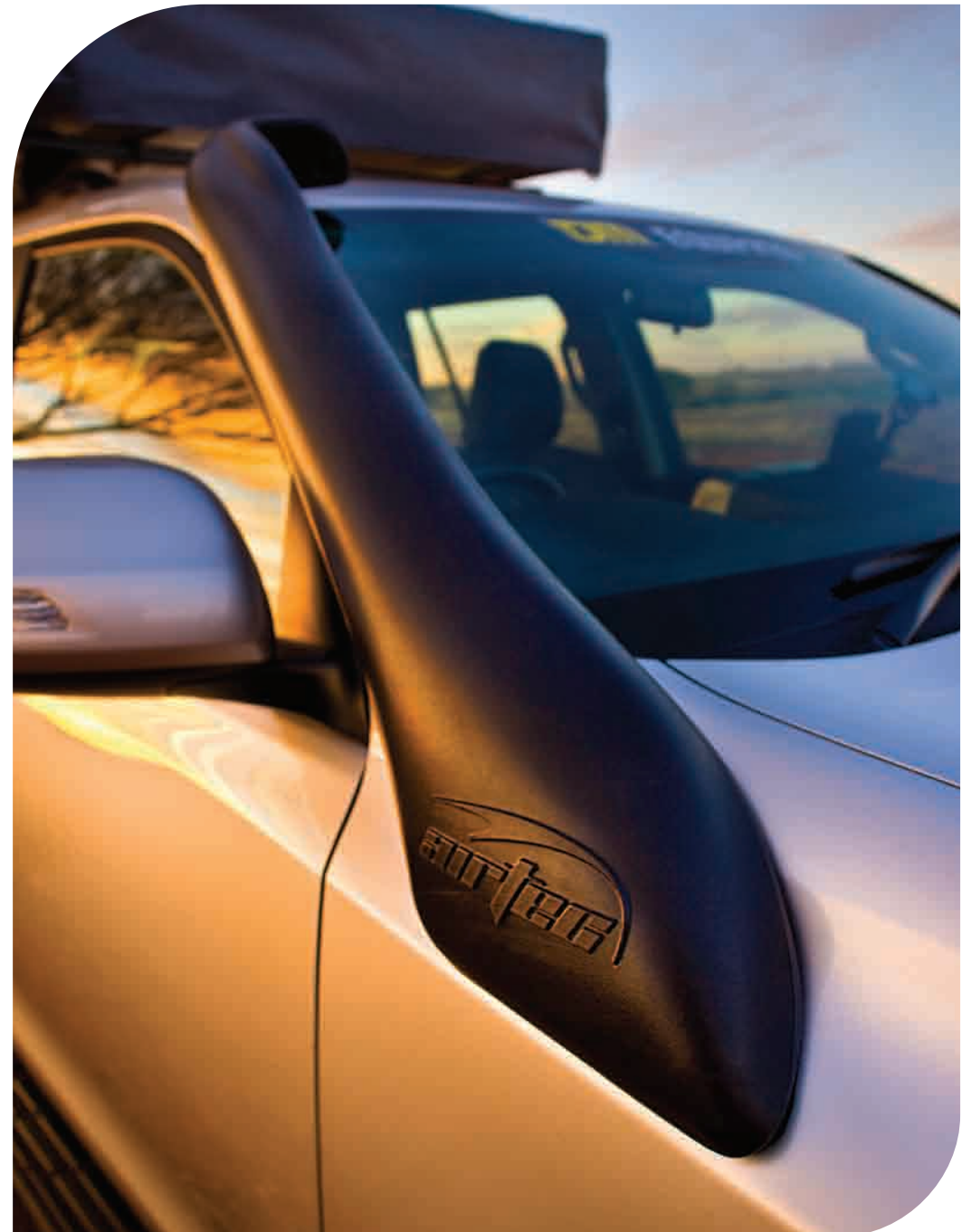
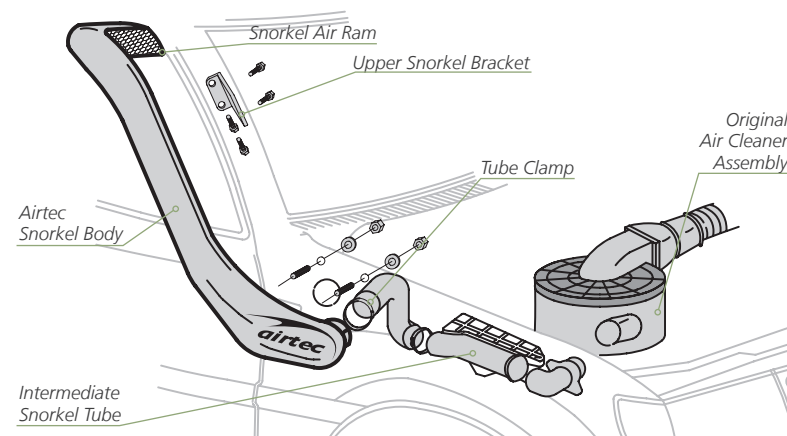
- › The TJM Airtec intake design separates rain or moisture from the air stream before it enters the engine
- › The snorkel body is manufactured with a smooth inner wall, harsh corners are avoided in all designs which reduces air turbulence and allows a constant uninterrupted air flow to the engine. All TJM Airtec snorkels are perfectly engineered to supply the correct volume of air or better to the engine which may improve your engines efficiency
- › Designed, engineered and moulded in Australia from high quality UV-resistant polyethylene for maximum strength and rigidity. All TJM Airtec snorkels incorporate stainless steel hardware
- › TJM Airtec snorkels are not only well engineered but are carefully designed to be aesthetically pleasing. Each Airtec snorkel is designed to flow with the vehicles natural styling, they are easily the best looking snorkels on the market
- › Easy installation minimising modifications to vehicle's original components
- › TJM Airtec snorkels offer a wide range to fit most popular 4WD makes and models
- › Designed exclusively for TJM and supplied through the TJM Australia wide and international sales and service network

How a TJM Airtec snorkel disperses rain water



- 1 Rain water entering the air ram of a TJM Airtec snorkel is captured at the back of the inside curved surface.
- 2 Water is then pooled around the base of the air ram and dispersed through the drain holes.
- 3 Finally, the last line of defence is the original water drain in the vehicle's air cleaner assembly.

Typical Airtec snorkel fitment



UV stable

Exposure of polyethylene to UV radiation leads to degradation of the material, which over time results in surface defects and ultimately cracking or failure of the product. To prevent this, most grades contain UV stabilisers. The efficiency of this stabilisation depends on the type of stabiliser used as well as the stabiliser content in the material. A measure for how well a material is stabilised is the UV rating which are based on the results of accelerated weathering tests and directly relates to how many hours samples have been exposed to artificial sunlight before a defined loss in mechanical properties occurs. The higher the UV rating, the better the stabilisation of the material and the longer its life expectancy outdoors.

Although the Australian Standard for base resins accepts a rating of UV8, this level of quality simply does not meet our expectations. As a result, TJM Airtec snorkels are processed using materials with a much higher rating of UV20 – UV24.

UV20/24
CERTIFIED
DESIGNED TO OUTLAST AUSTRALIAN CONDITIONS

A TJM Airtec snorkel is manufactured to last

Significant research and development has been undertaken to ensure every TJM Airtec snorkel is built to last. We take pride in developing top quality product knowing that you can have peace of mind when our products are put to the test.

Impact resistant

TJM Airtec snorkels are designed and manufactured in Australia from Australian plastic materials containing a combination of special additives and strong bonding processes. The result is a product with strong physical properties and tough impact resistance.

In colder temperatures the true strength of the TJM Airtec snorkel becomes apparent. Some competitors snorkels are invariably weaker in the cold because of the manner in which they are manufactured. A simple knock from an overhanging branch can crack the snorkel body rendering it useless.

Designed for extreme temperatures

Snorkel components out of sight, underneath the bonnet are an integral part of the complete snorkel system and are relied upon to transfer air from the snorkel body to the vehicle's air box. These components are exposed to extreme temperatures often exceeding 100°C. TJM understands the importance of using materials that can withstand extreme temperatures as well as being tough enough to endure harsh vibrations.

Colour fast

When it comes to incorporating colour into the snorkel, TJM undertakes a process called 'colour compounding'. Basically the pigment is mixed into the molten base resin before the product is even moulded. This procedure ensures that the colour pigment is evenly saturated throughout the polymer, preventing it from rubbing off or

bleeding. In addition, this process does not inhibit the particles of the polymer from fusing together, enabling the formation of a strong and dense product.

Some competitors snorkels are subjected to a cheaper and easier pigment solution called 'dry blending'. This process not only results in a blotchy appearance, it also reduces the strength of the product. In dry moulding, the pigment coats the polymer particles - effectively forming a barrier that prevents the particles from properly fusing together.



Customised design

Every vehicle has a different shape, so why should a snorkel be any different? We tailor each TJM Airtec snorkel to compliment the natural style and curves of the nominated vehicle.

Whether it's modifying the mould to allow for an aerial, or designing the air ram to follow the curve of the windscreen you can be confident that every TJM Airtec snorkel will perform as expected and look the part too.





Ensuring optimum snorkel performance

Most modern vehicles have a one-way valve (duck bill) fitted to the air box allowing any water ingress to drain out, whilst blocking any water entering from underneath the vehicle.

Please be aware that many vehicles do not have this valve, instead are fitted with a simple drain hole in the air box. TJM suggests that you plan ahead before a trip. If you plan to enter water deeper than air filter level, the drain hole should be sealed tight to prevent any water entering the air box. Keep in mind that any rain droplets caught in the snorkel cannot be drained. If you desire to do more low key river crossings, then we suggest that the drain hole be left open as the threat of water ingress from below is less likely. It is also recommended to undertake regular checks of the air filter to ensure it is not blocked and can operate at peak performance.

Please discuss your situation with your local TJM expert to determine which alternative suits you best.

TJM Airtec snorkels are Australian made

TJM Airtec snorkels are designed and manufactured in Australia from Australian plastic materials and supplied through the TJM Australia wide and international sales and service network.

And awards to show for it

4x4 Australia Magazine
Best Aftermarket Product Award
under \$700 Category

It takes a stand-out product to win awards especially when there is a lot of competition out there, as you can see we still came away with the gold.

